ANNUAL MANAGEMENT AND RECOMMENDATION REPORT

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UST MANAGEMENT PROGRAM

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FIGURE 26.4B SITE M-232-236 MADEP VPH/EPH COLORIMETRY AND PLUME IN EXCESS OF 2L – FIRST QUARTER 2007
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FIGURE 26.4D SITE M-232-236 MADEP VPH/EPH COLORIMETRY AND PLUME IN EXCESS OF 2L – FOURTH QUARTER 2007

27.0 SITE NH-100

EXECUTIVE SUMMARY

28.0 SITE PP-3311

EXECUTIVE SUMMARY
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29.0 SITE PP-3322

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30.0 SITE PP-3326

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FIGURE 30.1 SITE PP-3326 EPA METHOD 610 COLORIMETRY AND PLUME IN EXCESS OF 2L – THIRD QUARTER 2007
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31.0 SITE PP-3330

EXECUTIVE SUMMARY
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32.0 SITE PP-3332

EXECUTIVE SUMMARY
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33.0 SITE PP-3340

EXECUTIVE SUMMARY
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34.0 SITE PP-3343

EXECUTIVE SUMMARY
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35.0 SITE PP-3350

EXECUTIVE SUMMARY
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EXECUTIVE SUMMARY
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37.0 SITE PT-5

EXECUTIVE SUMMARY

38.0 SITE S-2633

EXECUTIVE SUMMARY

39.0 SITE TC-341

EXECUTIVE SUMMARY

40.0 SITE TC-912

EXECUTIVE SUMMARY
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41.0 SITE TT-2302

EXECUTIVE SUMMARY

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TABLE 42.3 SITE TT-2477-78 GROUNDWATER LABORATORY ANALYTICAL RESULTS – JULY 2005 TO DECEMBER 2007 - EPA METHOD 625
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43.0 SITE TT-3165

EXECUTIVE SUMMARY
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44.0 SITE TT-3233

EXECUTIVE SUMMARY
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APPENDIX A – FIGURES WITH PROPOSED MONITORING SCHEDULE FOR 2008

INTRODUCTION

The purpose of this *Annual Management Report* is to present the results of recent monitoring events performed at underground storage tank (UST) sites located at Marine Corps Air Station New River (MCAS New River) and Marine Corps Base Camp Lejeune (MCB Camp Lejeune). Monitoring and reporting is being performed in accordance with the *MCB Camp Lejeune UST Management Program*. A listing of sites for which sampling results are included in this *Annual Management Report* is presented in Table I and locations of these sites are shown on Figure I.

This *Annual Management Report* is designed such that all data and information pertaining to any individual site is contained entirely within one section of the report and each section is devoted entirely to one site. Therefore, each section serves as a stand-alone monitoring report for the respective site. Each section begins with an *Executive Summary* which provides information about location, monitoring, groundwater hydraulics, free product plumes, dissolved-phase plumes, potential receptors, and remediation at the site. Each *Executive Summary* is supported by several site-specific tables and figures.

TABLE I

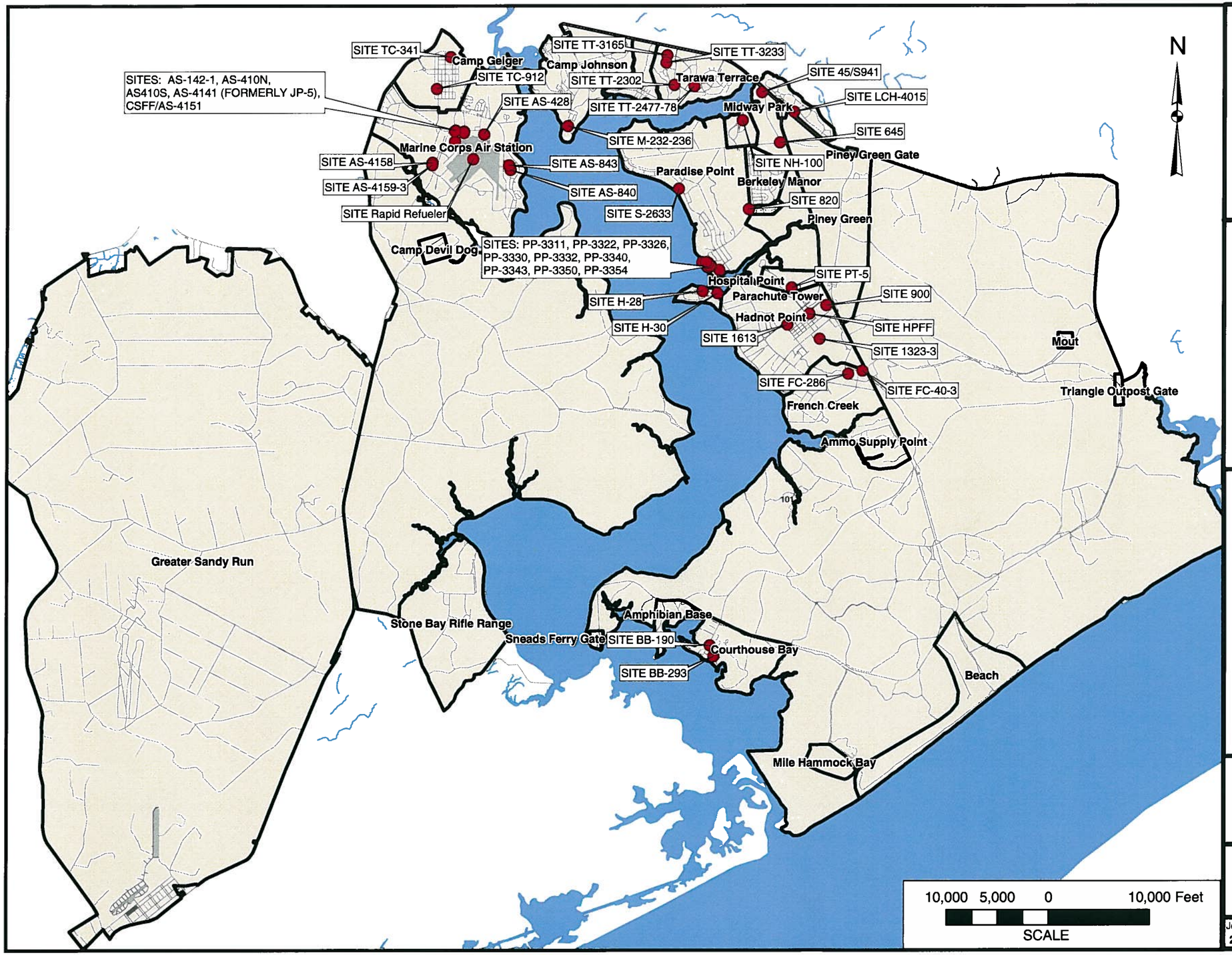
INDEX OF SITES FOR THIS REPORT

SITE NAME	NCDENR INCIDENT NO.	SITE LOCATION	REPORT SECTION NO.
AS-142-1	23297	MCAS New River	1.0
AS-410N	20048	MCAS New River	2.0
AS-410S	20047	MCAS New River	3.0
AS-428	21837	MCAS New River	4.0
AS-840	5668	MCAS New River	5.0
AS-843	21272	MCAS New River	6.0
AS-4141 (FORMERLY JP-5 PUMP AND TREAT)	3218	MCAS New River	7.0
AS-4158	10804	MCAS New River	8.0
AS-4159-3	32277	MCAS New River	9.0
Campbell Street Fuel Farm/AS-4151	23297	MCAS New River	10.0
Rapid Refueler	5668	MCAS New River	11.0
45/S941	22890	MCB Camp Lejeune	12.0
645	87556	MCB Camp Lejeune	13.0
820	23135	MCB Camp Lejeune	14.0
900	32126	MCB Camp Lejeune	15.0
1323-3	21796	MCB Camp Lejeune	16.0
1613	20660	MCB Camp Lejeune	17.0
BB-190	22793	MCB Camp Lejeune	18.0
BB-293	32049	MCB Camp Lejeune	19.0
FC-40-3	24222	MCB Camp Lejeune	20.0
FC-286	32149	MCB Camp Lejeune	21.0
H-28	23333, 9593	MCB Camp Lejeune	22.0
H-30	23091	MCB Camp Lejeune	23.0

SITE NAME	NCDENR INCIDENT NO.	SITE LOCATION	REPORT SECTION NO.
HPFF	3218	MCB Camp Lejeune	24.0
LCH-4015	85352	MCB Camp Lejeune	25.0
M-232-236	9593	MCB Camp Lejeune	26.0
NH-100	24416	MCB Camp Lejeune	27.0
PP-3311	24007	MCB Camp Lejeune	28.0
PP-3322	24008	MCB Camp Lejeune	29.0
PP-3326	24009	MCB Camp Lejeune	30.0
PP-3330	24010	MCB Camp Lejeune	31.0
PP-3332	24011	MCB Camp Lejeune	32.0
PP-3340	24012	MCB Camp Lejeune	33.0
PP-3343	24013	MCB Camp Lejeune	34.0
PP-3350	24014	MCB Camp Lejeune	35.0
PP-3354	24015	MCB Camp Lejeune	36.0
PT-5	16449	MCB Camp Lejeune	37.0
S-2633	20385	MCB Camp Lejeune	38.0
TC-341	15297	MCB Camp Lejeune	39.0
TC-912	15198	MCB Camp Lejeune	40.0
TT-2302	23696	MCB Camp Lejeune	41.0
TT-2477-78	7176	MCB Camp Lejeune	42.0
TT-3165	23971	MCB Camp Lejeune	43.0
TT-3233	23970	MCB Camp Lejeune	44.0

MCB CAMP LEJEUNE
UST MANAGEMENT PROGRAM

NAVFAC
Naval Facilities Engineering Command
ATLANTIC DIVISION



LEGEND

- Sites
- Base Areas
- Airfield Pavement
- Roads
- Surface Water

NOTES

1. Data layers provided by MCB Camp Lejeune GIS Department.

CATLIN
Engineers and Scientists

MCAS NEW RIVER/MCB CAMP LEJEUNE
SITE LOCATIONS MAP
CAMP LEJEUNE, NORTH CAROLINA

FIGURE 1

Job No.:	Date:	Scale:	Drawn By:	Checked By:
207-002	FEB 2008	AS SHOWN	KAWS	MEM

SECTION 1.0

OF THE

ANNUAL MANAGEMENT REPORT
MCB CAMP LEJEUNE UST MANAGEMENT PROGRAM

MONITORING EVENT:

YEAR 2007
(JANUARY – DECEMBER 2007)

SITE-SPECIFIC MONITORING REPORT
FOR

SITE AS-142-1

NCDENR INCIDENT NO. 23297

EXECUTIVE SUMMARY
SITE AS-142-1

1.1 Site Information

1.1.1 Site Location: Marine Corps Air Station (MCAS) New River
1.1.2 Incident Number(s): 23297
1.1.3 UTM Coordinates (WGS84) (Meters): 275563.89 Easting, 3844632.63 Northing
1.1.4 Risk Classification: Low
1.1.5 Land Use Classification: Industrial/Commercial
1.1.6 Source Type(s): 10,000 gallon Gasoline Underground Storage Tank (UST) with 70 feet of transfer piping and a dispenser island.

1.2 Monitoring Event Information

1.2.1 Sampling Performed By: No sampling performed.
1.2.2 Date(s) of This Monitoring Event: No sampling performed during 2007.
1.2.3 Date(s) of Previous Monitoring Event: Most recent sampling performed by CATLIN Engineers and Scientists (CATLIN) as part of the Phase II Limited Site Assessment (LSA) dated May 27, 2003.
1.2.4 Reason(s) for This Monitoring Event: Not Applicable.
1.2.5 Site Monitoring Status at Time of This Event: Site qualifies for NFA with Land Use Restrictions; however, it is recommended that the site be re-sampled during the next monitoring period to determine if contaminant levels have naturally attenuated to below the 2L Groundwater Quality Standards (GWQS).

1.3 Groundwater Hydraulics

1.3.1 Hydraulic Conductivity: Unknown
1.3.2 Effective Porosity: Unknown
1.3.3 Hydraulic Gradient: 0.04 feet/feet (calculated by CATLIN in Phase II LSA dated May 2003.).
1.3.4 Average Linear Groundwater Flow Velocity: Unknown
1.3.5 Groundwater Flow Direction: Towards the Southeast
1.3.6 Range of Measured Water Table Elevations: In February 2003, 16.39 feet above Mean Sea Level (MSL) in USTCSFF-MW19 to 12.81 feet above MSL in USTCSFF-MW24.
1.3.7 Significant Changes from Previously Reported Data: Not Applicable. No data was collected during this monitoring period.

1.4 Free Product Plume

1.4.1 Free Product Present?: No.
1.4.2 Free Product Thickness Measured: Not Applicable.
1.4.3 Plume Size and Location: Not Applicable.
1.4.4 Free Product Removed from Site This Period: Not Applicable.
1.4.5 Significant Changes from Previously Reported Data: Not Applicable. No data was collected during this monitoring period.

1.5 Dissolved-Phase Plume

1.5.1 Plume Concentrations: Not Measured.
1.5.2 Plume Size and Location: Not Measured.
1.5.3 Significant Changes from Previously Reported Data: Not Applicable. This is the first Management Report prepared by CATLIN for this site. Groundwater sample analytical results from the May 2003 Phase II LSA as compared to the 2L GWQS are discussed as follows:

EPA Method 601

Laboratory results indicate that only two constituents were identified above laboratory detection levels. Trichloroethene and cis-1,2-Dichloroethene were detected at concentrations of 3 µg/L and 5 µg/L, respectively. Of the two constituents, only Trichloroethene is above its respective 2L GWQS of 2.8 µg/L, but below the Gross Contaminant Level (GCL) of 2,800 µg/L.

EPA Method 602

Results of laboratory analysis indicate that Benzene and Ethylbenzene were detected above the 2L GWQS. Benzene was detected at a maximum concentration of 470 µg/L. Ethylbenzene was detected at concentrations of 110 µg/L, 170 µg/L, and 220 µg/L. These concentrations, however, are well below their respective GCLs of 5,000 µg/L and 29,000 µg/L.

EPA Method 504.1

Ethylene Dibromide (EDB) was not detected in any groundwater samples above laboratory detection limits.

MADEP VPH

The $C_5 - C_8$ Aliphatics were detected at concentrations of 760 µg/L, 920 µg/L, and, 2,200 µg/L, which is above the 2L GWQS of 420 µg/L. The $C_9 - C_{22}$ Aromatics were detected at a concentrations of 440 µg/L, 490 µg/L, and 480 µg/L, which is above the 2L GWQS of 210 µg/L. The remaining fractions were either less than the Method Detection Limit (MDLs) or less than the applicable 2L GWQSs.

EPA Method 6020

Lead concentrations in excess of 2L Standards were identified; however, the monitoring well may not have been representative of site conditions due to its location away from the site and across a drainage ditch. Extractable lead was detected at a concentration of 27.6 µg/L which is above the 2L Standard of 15 µg/L, but well below the GCL of 15,000 µg/L.

1.6 Potential Receptors

1.6.1 Contaminated Water Supply Well(s)?: None.
1.6.2 Potable Water Supply Well Within 1,000 Feet of Source Area?: No.
1.6.3 Any Water Supply Well Within 250 Feet of Source Area?: No.
1.6.4 Surface Water Body Within 500 Feet?: No.
1.6.5 Past Evidence of Vapors?: No.
1.6.6 Significant Changes from Previously Reported Data?: Not Applicable. This is the first Management Report prepared by CATLIN for this site.

1.7 Remediation

1.7.1 Status: Not Applicable.
1.7.2 Type: Not Applicable.
1.7.3 Progress: Not Applicable.
1.7.4 Construction Contractor: Not Applicable.
1.7.5 Operating Contractor: Not Applicable.

1.8 Observations and Comments

The North Carolina Department of Environment and Natural Resources (NCDENR) indicated this incident qualified for No Further Action (NFA) with Land Use Restrictions (LURs) in July 2003. The site has not been sampled since February 2003; therefore, CATLIN recommends sampling monitoring wells USTCSFF-MW18, USTCSFF-MW21, USTCSFF-MW24, and USTCSFF-DW06 in July 2008 per EPA Methods 601, 602, 6020 (Lead) and MADEP VPH to determine if groundwater contamination has naturally attenuated to levels below the 2L GWQSs. If contaminant concentrations have decreased to below the 2L GWQSs the Land Use Restriction would not be required for this site. See the figure in Appendix A for the proposed monitoring schedule.

SECTION 2.0

OF THE

ANNUAL MANAGEMENT REPORT
MCB CAMP LEJEUNE UST MANAGEMENT PROGRAM

MONITORING EVENT:

YEAR 2007
(JANUARY – DECEMBER 2007)

SITE-SPECIFIC MONITORING REPORT
FOR

SITE AS-410N

NCDENR INCIDENT NO. 20048

2.0 EXECUTIVE SUMMARY
SITE AS-410N

2.1 Site Information

2.1.1 Site Location: MCAS New River
2.1.2 Incident Number(s): 20048
2.1.3 UTM Coordinates (WGS84) (Meters): 275817.32 Easting, 3844598.68 Northing
2.1.4 Risk Classification: Low
2.1.5 Land Use Classification: Industrial/Commercial
2.1.6 Source Type(s): Six 4,000 gallon Gasoline USTs and associated piping /dispenser islands.

2.2 Monitoring Event Information

2.2.1 Sampling Performed By: No sampling performed.
2.2.2 Date(s) of This Monitoring Event: No sampling performed during 2007.
2.2.3 Date(s) of Previous Monitoring Event: Most recent sampling performed by J.A.Jones Environmental Services Inc. (J.A. Jones) in 2001 (soil sampling only).
2.2.4 Reason(s) for This Monitoring Event: Not Applicable.
2.2.5 Site Monitoring Status at Time of This Event: Site qualifies for NFA with LURs; however, it is recommended that the site be re-sampled during the next monitoring period to determine if contaminant levels have naturally attenuated to below the 2L GWQSs.

2.3 Groundwater Hydraulics

2.3.1 Hydraulic Conductivity: 82.81 feet/day as calculated in the CATLIN Corrective Action Plan (CAP) dated September 8, 1995.
2.3.2 Effective Porosity: 0.25 (CATLIN Comprehensive Site Assessment (CSA) 10/4/1994).
2.3.3 Hydraulic Gradient: 0.0046 (CATLIN CSA).
2.3.4 Average Linear Groundwater Flow Velocity: 0.70 feet/day (CATLIN CSA).
2.3.5 Groundwater Flow Direction: Variable.
2.3.6 Range of Measured Water Table Elevations: 12.89 (MW18) to 15.08 (MW01) feet above MSL (November 1999 J.A. Jones).
2.3.7 Significant Changes from Previously Reported Data: Not Applicable. No data was collected during this monitoring period.

2.4 Free Product Plume

2.4.1 Free Product Present?: No.
2.4.2 Free Product Thickness Measured: Not Applicable.
2.4.3 Plume Size and Location: Not Applicable.
2.4.4 Free Product Removed from Site This Period: Not Applicable.
2.4.5 Significant Changes from Previously Reported Data: Not Applicable. No data was collected during this monitoring period.

2.5 Dissolved-Phase Plume

2.5.1 Plume Concentrations: Not Measured.
2.5.2 Plume Size and Location: Not Measured.
2.5.3 Significant Changes from Previously Reported Data: Not Applicable. This is the first Management Report prepared by CATLIN for this site. Groundwater sample analytical results from the April 28, 2000 J.A. Jones Annual Monitoring Report (AMR) as compared to the 2L GWQS are discussed as follows:

EPA Method 602

J.A. Jones conducted quarterly post operational groundwater monitoring from February 1999 to November 1999. Only Benzene was detected in groundwater at the site above the 2L GWQS of 1.0 µg/L, but less than the Gross Contamination Level of 5,000 µg/L. All other EPA 602 detections during the four quarters of monitoring were either below laboratory quantitation limits or below 2L GWQSs.

2.6 Potential Receptors

2.6.1 Contaminated Water Supply Well(s)?: None.
2.6.2 Potable Water Supply Well Within 1,000 Feet of Source Area?: No.
2.6.3 Any Water Supply Well Within 250 Feet of Source Area?: No.
2.6.4 Surface Water Body Within 500 Feet?: No.
2.6.5 Past Evidence of Vapors?: No.
2.6.6 Significant Changes from Previously Reported Data?: Not Applicable. This is the first Management Report prepared by CATLIN for this site.

2.7 Remediation

2.7.1 Status: Complete.
2.7.2 Type: Groundwater Air Sparging and Soil Vapor Extraction
2.7.3 Progress: Complete – Remediation System operated from February 1997 until deactivation in December 1998.
2.7.4 Construction Contractor: J.A. Jones.
2.7.5 Operating Contractor: J.A. Jones.

2.8 Observations and Comments

The NCDENR indicated this incident qualified for NFA with LURs. Groundwater conditions have not been assessed since 1999; therefore, CATLIN recommends sampling the monitoring wells which exhibited noncompliant groundwater contaminant levels during the four post operational sampling events (USTAS410N-MW01 and USTAS410N-MW19). Analysis for EPA Method 602 compounds should be performed to determine if groundwater contamination has naturally attenuated to levels below the 2L GWQS. If contaminant concentrations have decreased to below the 2L GWQS the Land Use Restriction would not be required for this site. See the figure in Appendix A for the proposed monitoring schedule.

SECTION 3.0

OF THE

ANNUAL MANAGEMENT REPORT
MCB CAMP LEJEUNE UST MANAGEMENT PROGRAM

MONITORING EVENT:

YEAR 2007
(JANUARY – DECEMBER 2007)

SITE-SPECIFIC MONITORING REPORT
FOR

SITE AS-410S

NCDENR INCIDENT NO. 20047

3.0 EXECUTIVE SUMMARY
SITE AS-410S

3.1 Site Information

3.1.1 Site Location: MCAS New River
3.1.2 Incident Number(s): 20047
3.1.3 UTM Coordinates (WGS84) (Meters): 275812.78 Easting, 3844557.87 Northing
3.1.4 Risk Classification: Low
3.1.5 Land Use Classification: Industrial/Commercial.
3.1.6 Source Type(s): 285 gallon Waste Oil UST and 550 gallon Heating Oil UST.

3.2 Monitoring Event Information

3.2.1 Sampling Performed By: No sampling performed.
3.2.2 Date(s) of This Monitoring Event: No sampling performed during 2007.
3.2.3 Date(s) of Previous Monitoring Event: Most recent sampling performed by Law Engineering and Environmental Services Inc. (Law) for a Site Characterization Report dated September 2001 and by CATLIN for an Addendum to the previous report dated December 2002.
3.2.4 Reason(s) for This Monitoring Event: Not Applicable.
3.2.5 Site Monitoring Status at Time of This Event: Site qualifies for NFA with LURs; however, it is recommended that the site be re-sampled during the next monitoring period to determine if contaminant levels have naturally attenuated to below the 2L GWQS.

3.3 Groundwater Hydraulics

3.3.1 Hydraulic Conductivity: Unknown
3.3.2 Effective Porosity: Unknown
3.3.3 Hydraulic Gradient: 0.004 feet/feet (calculated by Groundwater Technology Government Services Inc. (GSI) in Site Check Report dated February 9, 1994).
3.3.4 Average Linear Groundwater Flow Velocity: Unknown
3.3.5 Groundwater Flow Direction: Varies – GSI Site Checks dated 1993 and 1994 indicate Southerly and Northeasterly flow, respectively. The Law 2001 Site Characterization Report (SCR) also indicates a Southerly flow pattern.
3.3.6 Range of Measured Water Table Elevations: In August 1999 (Law 2001 SCR), elevations ranged from 92.74 feet above Mean Sea Level (MSL) in USTAS410S-MW03 to 92.33 feet above MSL in USTAS410S-MW01.
3.3.7 Significant Changes from Previously Reported Data: Not Applicable. No data was collected during this monitoring period.

3.4 Free Product Plume

3.4.1 Free Product Present?: No.
3.4.2 Free Product Thickness Measured: Not Applicable.
3.4.3 Plume Size and Location: Not Applicable.
3.4.4 Free Product Removed from Site This Period: Not Applicable.
3.4.5 Significant Changes from Previously Reported Data: Not Applicable. No data was collected during this monitoring period.

3.5 Dissolved-Phase Plume

3.5.1 Plume Concentrations: Not Measured.
3.5.2 Plume Size and Location: Not Measured.
3.5.3 Significant Changes from Previously Reported Data: Not Applicable. This is the first Management Report prepared by CATLIN for this site. Groundwater sample analytical results from the 2001 Law SCR are discussed as follows:

EPA Method 6210D

Benzene and Naphthalene were identified at concentrations exceeding established 2L GWQSs in groundwater samples from USTAS410S-MW06 and USTAS410S-MW07. However, contaminant concentrations were below the GCLs.

EPA Method 625

Naphthalene was the only semi-volatile organic compound (SVOC) detected above the 2L GWQS but below the GCL. This compound was present in monitoring wells USTAS410S-MW06 and USTAS410S-MW07.

MADEP VPH/EPH

The C_9-C_{22} Aromatics fraction was present above the 2L GWQS of 210 µg/L in USTAS410S-MW06 and USTAS410S-MW07.

EPA Method 3030C

Neither Chromium nor Lead was detected in samples from the site.

Two temporary wells were installed and sampled by CATLIN as part of an Addendum to the SCR. The CATLIN Addendum, dated December 2002, summarized lab data from wells located within each former tank basin. Samples were analyzed for volatile organic compounds (VOCs), SVOCs, MADEP fractions, and Lead. Compound concentrations were either below 2L GWQSs or less than the laboratory Method Detection Limit.

3.6 Potential Receptors

3.6.1 Contaminated Water Supply Well(s)?: None.
3.6.2 Potable Water Supply Well Within 1,000 Feet of Source Area?: No.
3.6.3 Any Water Supply Well Within 250 Feet of Source Area?: No.
3.6.4 Surface Water Body Within 500 Feet?: No.
3.6.5 Past Evidence of Vapors?: No.
3.6.6 Significant Changes from Previously Reported Data?: Not Applicable. This is the first Management Report prepared by CATLIN.

3.7 Remediation

3.7.1 Status: Not Applicable.
3.7.2 Type: Not Applicable.
3.7.3 Progress: Not Applicable.
3.7.4 Construction Contractor: Not Applicable.
3.7.5 Operating Contractor: Not Applicable.

3.8 Observations and Comments

The NCDENR indicated this incident qualified for NFA with LURs in March 2003. Groundwater conditions have not been assessed since 2002; therefore, CATLIN recommends sampling the monitoring wells which exhibited noncompliant groundwater contaminant levels during the 2001Law SCR (USTAS410S-MW06 and USTAS410S-MW07). Samples should be analyzed per EPA Method 6210D and MADEP VPH/EPH to determine if groundwater contamination has naturally attenuated to levels below the 2L GWQSs. If contaminant concentrations have decreased to below the 2L GWQSs, the Land Use Restriction would not be required for this site. See the figure in Appendix A for the proposed monitoring schedule.

SECTION 4.0

OF THE

ANNUAL MANAGEMENT REPORT
MCB CAMP LEJEUNE UST MANAGEMENT PROGRAM

MONITORING EVENT:

YEAR 2007
(JANUARY – DECEMBER 2007)

SITE-SPECIFIC MONITORING REPORT
FOR

SITE AS-428

NCDENR INCIDENT NO. 21837

4.0 EXECUTIVE SUMMARY
SITE AS-428

4.1 Site Information

4.1.1 Site Location: MCAS New River
4.1.2 Incident Number(s): 21837
4.1.3 UTM Coordinates (WGS84) (Meters): 276418.78 Easting, 3844512.43 Northing
4.1.4 Risk Classification: Low
4.1.5 Land Use Classification: No Classification to date; Residential standards to be used for regulatory compliance, where applicable.
4.1.6 Source Type(s): 280 gallon Diesel UST and associated piping that was used to supply fuel to the generator located within Building AS-428.

4.2 Monitoring Event Information

4.2.1 Sampling Performed By: No sampling performed.
4.2.2 Date(s) of This Monitoring Event: No sampling performed during 2007.
4.2.3 Date(s) of Previous Monitoring Event: Most recent sampling performed by J.A. Jones; data submitted in an Annual Monitoring Report dated January 31, 2002.
4.2.4 Reason(s) for This Monitoring Event: Not Applicable.
4.2.5 Site Monitoring Status at Time of This Event: Site qualifies for NFA with LURs; however, it is recommended that the site be re-sampled during the next monitoring period to determine if contaminant levels have naturally attenuated to below the 2L GWQS.

4.3 Groundwater Hydraulics

4.3.1 Hydraulic Conductivity: 72.8 feet/day as taken from the CATLIN CSA dated May 31, 1996.
4.3.2 Effective Porosity: 0.20 (CATLIN CSA)
4.3.3 Hydraulic Gradient: 0.00581 feet/feet (CATLIN CSA)
4.3.4 Average Linear Groundwater Flow Velocity: 2.1 feet/day (CATLIN CSA)
4.3.5 Groundwater Flow Direction: Towards the North and Northwest (CATLIN CSA and J.A. Jones AMR)
4.3.6 Range of Measured Water Table Elevations: 14.15 to 19.83 feet above MSL (J.A. Jones AMR, 2001 data).
4.3.7 Significant Changes from Previously Reported Data: Not Applicable. No data was collected during this monitoring period.

4.4 Free Product Plume

4.4.1 Free Product Present?: No; Removed as of 2001.
4.4.2 Free Product Thickness Measured: Not Applicable.
4.4.3 Plume Size and Location: Not Applicable.
4.4.4 Free Product Removed from Site This Period: Not Applicable.
4.4.5 Significant Changes from Previously Reported Data: Not Applicable. No data was collected during this monitoring period.

4.5 Dissolved-Phase Plume

4.5.1 Plume Concentrations: Not Measured.
4.5.2 Plume Size and Location: Not Measured.
4.5.3 Significant Changes from Previously Reported Data: Not Applicable. This is the first Management Report prepared by CATLIN for this site. Groundwater sample analytical results from the 2001J.A. Jones AMR are discussed as follows:

EPA Method 602

Benzene was the only EPA Method 602 target analyte detected at the site above the 2L GWQSs. All other EPA Method 602 compounds were either below laboratory MDLs or less than the applicable 2L GWQSs. Noncompliant Benzene concentrations were detected in monitoring wells MW01, MW03, and AS428-6 within the final four groundwater sampling events (3/2001,5/1999, 2/1999, and 11/1998). Benzene concentrations were below the GCLs.

EPA Method 610

Naphthalene, 1-Methylnaphthalene, and 2-Methylnaphthalene were detected in monitoring well MW03 above the 2L GWQSs during the last four sampling events. No EPA Method 610 compounds were detected above GCLs. No other 610 compounds were detected in groundwater at the site from November 1998 to March 2001.

4.6 Potential Receptors

4.6.1 Contaminated Water Supply Well(s)?: None.
4.6.2 Potable Water Supply Well Within 1,000 Feet of Source Area?: No.
4.6.3 Any Water Supply Well Within 250 Feet of Source Area?: No.
4.6.4 Surface Water Body Within 500 Feet?: No.
4.6.5 Past Evidence of Vapors?: No.
4.6.6 Significant Changes from Previously Reported Data?: Not Applicable. This is the first Management Report prepared by CATLIN for this site.

4.7 Remediation

4.7.1 Status: Complete.
4.7.2 Type: Soil excavation; Aggressive Fluid Vapor Recovery; Natural Attenuation
4.7.3 Progress: Complete.
4.7.4 Construction Contractor: J.A. Jones.
4.7.5 Operating Contractor: J.A. Jones.

4.8 Observations and Comments

The NCDENR indicated this incident qualified for NFA with LURs in March 2002. Groundwater conditions have not been assessed since 2001; therefore, CATLIN recommends sampling the monitoring wells which exhibited noncompliant groundwater contaminant levels during the 2001 J.A. Jones AMR (MW01, MW03R, and AS428-6). Samples should be analyzed to assess whether or not groundwater contamination has naturally attenuated to levels below the 2L GWQSs. If contaminant concentrations have decreased to below the 2L GWQSs, the Land Use Restriction would not be required for this site. Benzene levels should be quantified via EPA Method 602, and Naphthalene, 1-Methylnaphthalene, and 2-Methylnaphthalene concentrations should be analyzed via EPA Method 610. See the figure in Appendix A for the proposed monitoring schedule.

SECTION 5.0

OF THE

ANNUAL MANAGEMENT REPORT
MCB CAMP LEJEUNE UST MANAGEMENT PROGRAM

MONITORING EVENT:

YEAR 2007
(JANUARY – DECEMBER 2007)

SITE-SPECIFIC MONITORING REPORT
FOR

SITE AS-840

NCDENR INCIDENT NO. 5668

5.0 EXECUTIVE SUMMARY
SITE AS-840

5.1 Site Information

5.1.1 Site Location: MCAS New River
5.1.2 Incident Number(s): 5668
5.1.3 UTM Coordinates (WGS84) (Meters): 277203.64 Easting, 3843453.45 Northing
5.1.4 Risk Classification: Not Applicable
5.1.5 Land Use Classification: Not Applicable
5.1.6 Source Type(s): Gasoline, Diesel Fuel

5.2 Monitoring Event Information

5.2.1 Sampling Performed By: Sovereign Consulting Inc. (Sovereign)
5.2.2 Date(s) of This Monitoring Event: June 2006, November 2006, January 2007 and April 2007
5.2.3 Date(s) of Previous Monitoring Event: October 2003
5.2.4 Reason(s) for This Monitoring Event: Groundwater sampling for possible site closure after soil excavation and Oxygen Release Compound (ORC) groundwater remediation was conducted.
5.2.5 Site Monitoring Status at Time of This Event: Quarterly post-remediation sampling to facilitate site closure.

5.3 Groundwater Hydraulics

5.3.1 Hydraulic Conductivity: 30 feet/day
5.3.2 Effective Porosity: 0.40
5.3.3 Hydraulic Gradient: 0.0047 feet/feet
5.3.4 Average Linear Groundwater Flow Velocity: 0.353 feet/day
5.3.5 Groundwater Flow Direction: Northeast, toward the New River
5.3.6 Range of Measured Water Table Elevations: See Table 5.1
5.3.7 Significant Changes from Previously Reported Data: None

5.4 Free Product Plume

5.4.1 Free Product Present?: No. Removed as of May 2006.
5.4.2 Free Product Thickness Measured: Not Applicable.
5.4.3 Plume Size and Location: Not Applicable.
5.4.4 Free Product Removed from Site This Period: Not Applicable.
5.4.5 Significant Changes from Previously Reported Data: Residual free product was removed from the site by excavation activities as of May 2006. See Figure 5.1A through 5.1D.

5.5 Dissolved-Phase Plume

5.5.1 Plume Concentrations: See Tables 5.2 through 5.4
5.5.2 Plume Size and Location: See Figures 5.2A through 5.4C
5.5.3 Significant Changes from Previously Reported Data: Data collected during the current reporting period is discussed below:

EPA Method 602

No EPA Method 602 compounds were detected above the 2L GWQS in the wells sampled during the four monitoring events conducted during the current reporting period. See Figures 5.2A through 5.2D.

EPA Method 625

Bis(2-ethylhexyl)phthalate was detected in monitoring well ASTAS840-MW05 at a concentration of 19.5 ug/L during the second quarter 2006 (June) monitoring event. During the fourth quarter 2006 (November) monitoring event wells ASTAS840-MW03 and ASTAS840-MW07 contained Bis(2-ethylhexyl)phthalate at concentrations of 10.2 ug/L and 3.3 ug/L, respectively. All of these Bis(2-ethylhexyl)phthalate detections were above the 2L GWQS of 2.5 ug/L. No EPA Method 625 compounds were detected above the 2L GWQS during the first quarter 2007 (January) and the second quarter 2007 (April) monitoring events. See Figures 5.3A through 5.3D.

MADEP VPH/EPH

No MADEP compounds were detected above the 2L GWQS in the wells sampled during the three monitoring events conducted during the current reporting period(June 2006, November 2006 and January 2007). MADEP VPH/EPH analysis was not performed during the April 2007 monitoring event. See Figures 5.4A through 5.4C.

5.6 Potential Receptors

5.6.1 Contaminated Water Supply Well(s)?: None
5.6.2 Potable Water Supply Well Within 1,000 Feet of Source Area?: No
5.6.3 Any Water Supply Well Within 250 Feet of Source Area?: No
5.6.4 Surface Water Body Within 500 Feet?: No
5.6.5 Past Evidence of Vapors?: No
5.6.6 Significant Changes from Previously Reported Data?: No

5.7 Remediation

5.7.1 Status: Complete
5.7.2 Type: AFVR (historically), soil excavation, ORC groundwater treatment
5.7.3 Progress: Complete
5.7.4 Construction Contractor: Sovereign
5.7.5 Operating Contractor: Sovereign

5.8 Observations and Comments

Although Bis(2-ethylhexyl)phthalate was detected at concentrations above the 2L GWQS, it should be noted that this is not a petroleum-related compound. This compound is commonly used in plastics as a plasticizing agent. The occurrence of this compound is likely the result of sampling/laboratory artifact, resulting from the use of plastic sampling equipment and/or analytical instrument tubing.

Due to the fact that no petroleum-related compounds were detected above the 2L GWQSs during the four quarterly post-remediation monitoring events, the NCDENR granted NFA on September 12, 2007.

The on-site monitoring wells have been abandoned and records of the well abandonment were sent to the NCDENR on November 1, 2007.

TABLE 5.1
SITE AS-840
FIELD MEASUREMENTS - JULY 2005 TO DECEMBER 2007

Well No.	Type	TOC	Date	DTW	Product Thickness	Corrected GWT Elevation
ASTAS840-MW01	T-II	12.75	6/14/2006	4.31	0.00	8.44
ASTAS840-MW01	T-II	12.75	11/6/2006	5.35	0.00	7.40
ASTAS840-MW01	T-II	12.75	1/18/2007	3.62	0.00	9.13
ASTAS840-MW01	T-II	12.75	4/12/2007	5.54	0.00	7.21
ASTAS840-MW03	T-III	13.27	6/14/2006	5.50	0.00	7.77
ASTAS840-MW03	T-III	13.27	11/6/2006	6.57	0.00	6.70
ASTAS840-MW03	T-III	13.27	1/18/2007	5.50	0.00	7.77
ASTAS840-MW03	T-III	13.27	4/12/2007	6.79	0.00	6.48
ASTAS840-MW04	T-II	14.08	6/14/2006	6.15	0.00	7.93
ASTAS840-MW04	T-II	14.08	11/6/2006	7.32	0.00	6.76
ASTAS840-MW04	T-II	14.08	1/18/2007	6.30	0.00	7.78
ASTAS840-MW04	T-II	14.08	4/12/2007	7.68	0.00	6.40
ASTAS840-MW05	T-II	13.49	6/14/2006	6.30	0.00	7.19
ASTAS840-MW05	T-II	13.49	11/6/2006	7.13	0.00	6.36
ASTAS840-MW05	T-II	13.49	1/18/2007	6.17	0.00	7.32
ASTAS840-MW05	T-II	13.49	4/12/2007	7.40	0.00	6.09
ASTAS840-MW06	T-II	13.15	6/14/2006	5.58	0.00	7.57
ASTAS840-MW06	T-II	13.15	11/6/2006	6.58	0.00	6.57
ASTAS840-MW06	T-II	13.15	1/18/2007	5.55	0.00	7.60
ASTAS840-MW06	T-II	13.15	4/12/2007	6.81	0.00	6.34
ASTAS840-MW07	T-II	14.19	6/14/2006	7.26	0.00	6.93
ASTAS840-MW07	T-II	14.19	11/6/2006	7.61	0.00	6.58
ASTAS840-MW07	T-II	14.19	1/18/2007	6.24	0.00	7.95
ASTAS840-MW07	T-II	14.19	4/12/2007	7.92	0.00	6.27

Notes:
1. T-II = Type II monitoring well
   T-III = Type III monitoring well
   RW = Recovery well
2. TOC = Top of casing elevation in feet relative to Mean Sea Level.
3. DTW = Depth to water (in feet) from top of well casing.
4. Product thickness is measured in feet.
5. GWT = Groundwater Table
6. A zero ("0.00") in the product thickness column indicates no measureable thickness.
7. GWT Elevation corrected for measurable free product, if present.

Well No.	Type	TOC	Date	DTW	Product Thickness	Corrected GWT Elevation
ASTAS840-MW08	T-II	14.31	6/14/2006	6.82	0.00	7.49
ASTAS840-MW08	T-II	14.31	11/6/2006	7.55	0.00	6.76
ASTAS840-MW08	T-II	14.31	1/18/2007	6.50	0.00	7.81
ASTAS840-MW08	T-II	14.31	4/12/2007	8.29	0.00	6.02
ASTAS840-MW09	T-II	13.28	6/14/2006	5.60	0.00	7.68
ASTAS840-MW09	T-II	13.28	11/6/2006	6.57	0.00	6.71
ASTAS840-MW09	T-II	13.28	1/18/2007	5.50	0.00	7.78
ASTAS840-MW09	T-II	13.28	4/12/2007	6.81	0.00	6.47

Notes:
1. T-II = Type II monitoring well
   T-III = Type III monitoring well
   RW = Recovery well
2. TOC = Top of casing elevation in feet relative to Mean Sea Level.
3. DTW = Depth to water (in feet) from top of well casing.
4. Product thickness is measured in feet.
5. GWT = Groundwater Table
6. A zero ("0.00") in the product thickness column indicates no measureable thickness.
7. GWT Elevation corrected for measurable free product, if present.

TABLE 5.2

SITE AS-840

GROUNDWATER LABORATORY ANALYTICAL RESULTS - JULY 2005 TO DECEMBER 2007

EPA METHOD 602

Contaminant of Concern →		Benzene	Ethylbenzene	Methyl-tert butyl ether	Toluene	Total Xylenes
Well ID	Date					
2L GWQS		1	550	200	1000	530
GCL		5000	550000	200000	257500	87500
ASTAS840-MW01	6/14/2006	BQL	BQL	BQL	BQL	BQL
ASTAS840-MW01	11/6/2006	BQL	BQL	BQL	BQL	BQL
ASTAS840-MW01	1/18/2007	BQL	BQL	BQL	0.62	0.37
ASTAS840-MW01	4/13/2007	BQL	BQL	BQL	BQL	BQL
ASTAS840-MW03	6/14/2006	BQL	BQL	BQL	BQL	BQL
ASTAS840-MW03	11/7/2006	BQL	BQL	BQL	BQL	BQL
ASTAS840-MW03	1/18/2007	BQL	BQL	BQL	0.89	BQL
ASTAS840-MW03	4/12/2007	BQL	BQL	BQL	BQL	BQL
ASTAS840-MW04	6/14/2006	BQL	BQL	BQL	BQL	BQL
ASTAS840-MW04	11/6/2006	BQL	BQL	BQL	BQL	BQL
ASTAS840-MW04	1/18/2007	BQL	BQL	BQL	0.47	BQL
ASTAS840-MW04	4/12/2007	BQL	BQL	BQL	BQL	BQL

Notes:
1. 2L GWQS = North Carolina groundwater quality standard 15A NCAC 2L .0202
2. GCL = Gross Contamination Levels for ground water as defined in "Guidelines for Assessment and Corrective Action" North Carolina Underground Storage Tank Section, effective July 1, 2001
3. All units are in ug/L (Micrograms per Liter)
4. BQL = Below Quantitaion Limits
5. A zero in the 2L GWQS row indicates the 2L Standard is equal to the laboratory detection limit
6. A zero in the GCL row indicates a GCL has not been established
7. Shaded concentrations indicate exceedance of the 2L GWQS
8. Only compounds which were detected are shown on table. All other compounds were BQL

TABLE 5.2

SITE AS-840

GROUNDWATER LABORATORY ANALYTICAL RESULTS - JULY 2005 TO DECEMBER 2007

EPA METHOD 602

Contaminant of Concern →		Benzene	Ethylbenzene	Methyl-tert butyl ether	Toluene	Total Xylenes
Well ID	Date					
2L GWQS		1	550	200	1000	530
GCL		5000	550000	200000	257500	87500
ASTAS840-MW05	6/14/2006	BQL	BQL	BQL	BQL	BQL
ASTAS840-MW05	11/6/2006	BQL	BQL	BQL	0.25	BQL
ASTAS840-MW05	1/18/2007	BQL	BQL	BQL	0.62	BQL
ASTAS840-MW05	4/12/2007	BQL	BQL	BQL	BQL	BQL
ASTAS840-MW06	6/14/2006	BQL	BQL	BQL	2.03	2.15
ASTAS840-MW06	11/7/2006	BQL	BQL	BQL	BQL	BQL
ASTAS840-MW06	1/18/2007	BQL	BQL	BQL	0.64	BQL
ASTAS840-MW06	4/13/2007	BQL	BQL	BQL	BQL	BQL
ASTAS840-MW07	6/14/2006	BQL	1.95	BQL	BQL	BQL
ASTAS840-MW07	11/6/2006	BQL	0.58	BQL	BQL	BQL
ASTAS840-MW07	1/18/2007	BQL	0.74	BQL	0.65	BQL
ASTAS840-MW07	4/12/2007	BQL	BQL	BQL	BQL	BQL

Notes:
1. 2L GWQS = North Carolina groundwater quality standard 15A NCAC 2L .0202
2. GCL = Gross Contamination Levels for ground water as defined in "Guidelines for Assessment and Corrective Action" North Carolina Underground Storage Tank Section, effective July 1, 2001
3. All units are in ug/L (Micrograms per Liter)
4. BQL = Below Quantitaion Limits
5. A zero in the 2L GWQS row indicates the 2L Standard is equal to the laboratory detection limit
6. A zero in the GCL row indicates a GCL has not been established
7. Shaded concentrations indicate exceedance of the 2L GWQS
8. Only compounds which were detected are shown on table. All other compounds were BQL

TABLE 5.2

SITE AS-840

GROUNDWATER LABORATORY ANALYTICAL RESULTS - JULY 2005 TO DECEMBER 2007

EPA METHOD 602

Contaminant of Concern →							
Well ID	**Date**	**Benzene**	**Ethylbenzene**	**Methyl-tert butyl ether**	**Toluene**	**Total Xylenes**	
2L GWQS		1	550	200	1000	530	
GCL		5000	550000	200000	257500	87500	
ASTAS840-MW08	6/14/2006	BQL	BQL	BQL	BQL	BQL	
ASTAS840-MW08	11/6/2006	BQL	BQL	BQL	0.30	BQL	
ASTAS840-MW08	4/12/2007	BQL	BQL	BQL	BQL	BQL	
ASTAS840-MW09	6/14/2006	BQL	3.74	BQL	BQL	2.29	
ASTAS840-MW09	11/7/2006	0.90	1.13	0.82	BQL	BQL	
ASTAS840-MW09	1/18/2007	0.61	0.62	BQL	0.55	BQL	
ASTAS840-MW09	4/12/2007	BQL	BQL	BQL	BQL	BQL	

Notes:
1. 2L GWQS = North Carolina groundwater quality standard 15A NCAC 2L .0202
2. GCL = Gross Contamination Levels for ground water as defined in "Guidelines for Assessment and Corrective Action" North Carolina Underground Storage Tank Section, effective July 1, 2001
3. All units are in ug/L (Micrograms per Liter)
4. BQL = Below Quantitaion Limits
5. A zero in the 2L GWQS row indicates the 2L Standard is equal to the laboratory detection limit
6. A zero in the GCL row indicates a GCL has not been established
7. Shaded concentrations indicate exceedance of the 2L GWQS
8. Only compounds which were detected are shown on table. All other compounds were BQL

TABLE 5.3

SITE AS-840

GROUNDWATER LABORATORY ANALYTICAL RESULTS - JULY 2005 TO DECEMBER 2007

EPA METHOD 625

Contaminant of Concern →		Acenaphthene	Bis(2-ethylhexyl)phthalate	Diethylphthalate	Fluorene	Naphthalene	Phenanthrene
Well ID	Date						
2L GWQS		80	2.5	5000	280	21	210
GCL		2120	2500	0	950	15500	410
ASTAS840-MW01	6/14/2006	BQL	BQL	BQL	BQL	BQL	BQL
ASTAS840-MW01	11/6/2006	BQL	BQL	BQL	BQL	BQL	BQL
ASTAS840-MW01	1/18/2007	BQL	BQL	BQL	BQL	BQL	BQL
ASTAS840-MW01	4/13/2007	BQL	BQL	BQL	BQL	BQL	BQL
ASTAS840-MW03	6/14/2006	BQL	1.50	BQL	BQL	BQL	BQL
ASTAS840-MW03	11/7/2006	BQL	10.20	BQL	BQL	BQL	BQL
ASTAS840-MW03	1/18/2007	BQL	BQL	BQL	BQL	BQL	BQL
ASTAS840-MW03	4/12/2007	BQL	1.60	BQL	BQL	BQL	BQL
ASTAS840-MW04	6/14/2006	BQL	BQL	BQL	BQL	BQL	BQL
ASTAS840-MW04	11/6/2006	BQL	BQL	BQL	BQL	BQL	BQL
ASTAS840-MW04	1/18/2007	BQL	BQL	BQL	BQL	BQL	BQL
ASTAS840-MW04	4/12/2007	BQL	BQL	BQL	BQL	BQL	BQL

Notes:
1. 2L GWQS = North Carolina groundwater quality standard 15A NCAC 2L .0202
2. GCL = Gross Contamination Levels for ground water as defined in "Guidelines for Assessment and Corrective Action" North Carolina Underground Storage Tank Section, effective July 1, 2001
3. All units are in ug/L (Micrograms per Liter)
4. BQL = Below Quantitaion Limits
5. A zero in the 2L GWQS row indicates the 2L Standard is equal to the laboratory detection limit
6. A zero in the GCL row indicates a GCL has not been established
7. Shaded concentrations indicate exceedance of the 2L GWQS
8. Only compounds which were detected are shown on table. All other compounds were BQL

TABLE 5.3

SITE AS-840

GROUNDWATER LABORATORY ANALYTICAL RESULTS - JULY 2005 TO DECEMBER 2007

EPA METHOD 625

Contaminant of Concern →		Acenaphthene	Bis(2-ethylhexyl)phthalate	Diethylphthalate	Fluorene	Naphthalene	Phenanthrene
Well ID	Date						
2L GWQS		80	2.5	5000	280	21	210
GCL		2120	2500	0	950	15500	410
ASTAS840-MW05	6/14/2006	BQL	**19.50**	BQL	BQL	BQL	BQL
ASTAS840-MW05	11/6/2006	BQL	BQL	BQL	BQL	BQL	BQL
ASTAS840-MW05	1/18/2007	BQL	BQL	BQL	BQL	BQL	BQL
ASTAS840-MW05	4/12/2007	BQL	BQL	BQL	BQL	BQL	BQL
ASTAS840-MW06	6/14/2006	BQL	BQL	BQL	BQL	BQL	BQL
ASTAS840-MW06	11/7/2006	BQL	BQL	BQL	BQL	BQL	BQL
ASTAS840-MW06	1/18/2007	BQL	BQL	BQL	BQL	BQL	BQL
ASTAS840-MW06	4/13/2007	BQL	BQL	BQL	BQL	BQL	BQL
ASTAS840-MW07	6/14/2006	1.80	BQL	BQL	1.80	6.10	BQL
ASTAS840-MW07	11/6/2006	1.70	**3.30**	BQL	2.20	8.00	2.90
ASTAS840-MW07	1/18/2007	2.70	BQL	BQL	2.50	6.30	2.90
ASTAS840-MW07	4/12/2007	BQL	BQL	BQL	BQL	BQL	BQL

Notes:
1. 2L GWQS = North Carolina groundwater quality standard 15A NCAC 2L .0202
2. GCL = Gross Contamination Levels for ground water as defined in "Guidelines for Assessment and Corrective Action" North Carolina Underground Storage Tank Section, effective July 1, 2001
3. All units are in ug/L (Micrograms per Liter)
4. BQL = Below Quantitaion Limits
5. A zero in the 2L GWQS row indicates the 2L Standard is equal to the laboratory detection limit
6. A zero in the GCL row indicates a GCL has not been established
7. Shaded concentrations indicate exceedance of the 2L GWQS
8. Only compounds which were detected are shown on table. All other compounds were BQL

TABLE 5.3

SITE AS-840

GROUNDWATER LABORATORY ANALYTICAL RESULTS - JULY 2005 TO DECEMBER 2007

EPA METHOD 625

Contaminant of Concern →		Acenaphthene	Bis(2-ethylhexyl)phthalate	Diethylphthalate	Fluorene	Naphthalene	Phenanthrene
Well ID	Date						
2L GWQS		80	2.5	5000	280	21	210
GCL		2120	2500	0	950	15500	410
ASTAS840-MW08	6/14/2006	BQL	BQL	BQL	BQL	BQL	BQL
ASTAS840-MW08	11/6/2006	BQL	BQL	BQL	BQL	6.00	BQL
ASTAS840-MW08	4/12/2007	BQL	BQL	2.20	BQL	BQL	BQL
ASTAS840-MW09	6/14/2006	BQL	BQL	BQL	BQL	BQL	BQL
ASTAS840-MW09	11/7/2006	2.50	BQL	BQL	2.90	6.40	2.60
ASTAS840-MW09	1/18/2007	BQL	BQL	BQL	BQL	BQL	BQL
ASTAS840-MW09	4/12/2007	2.40	1.70	BQL	2.90	BQL	BQL

Notes:
1. 2L GWQS = North Carolina groundwater quality standard 15A NCAC 2L .0202
2. GCL = Gross Contamination Levels for ground water as defined in "Guidelines for Assessment and Corrective Action" North Carolina Underground Storage Tank Section, effective July 1, 2001
3. All units are in ug/L (Micrograms per Liter)
4. BQL = Below Quantitaion Limits
5. A zero in the 2L GWQS row indicates the 2L Standard is equal to the laboratory detection limit
6. A zero in the GCL row indicates a GCL has not been established
7. Shaded concentrations indicate exceedance of the 2L GWQS
8. Only compounds which were detected are shown on table. All other compounds were BQL

TABLE 5.4

SITE AS-840

GROUNDWATER LABORATORY ANALYTICAL RESULTS - JULY 2005 TO DECEMBER 2007

MADEP VPH/EPH

Contaminant of Concern →		C9-C18 Aliphatics	C9-C22 Aromatics
Well ID	Date		
2L GWQS		4200	210
GCL		0	0
ASTAS840-MW01	6/14/2006	BQL	BQL
ASTAS840-MW01	11/6/2006	BQL	BQL
ASTAS840-MW01	1/18/2007	BQL	BQL
ASTAS840-MW03	6/14/2006	BQL	BQL
ASTAS840-MW03	11/7/2006	BQL	BQL
ASTAS840-MW03	1/18/2007	BQL	BQL
ASTAS840-MW04	6/14/2006	BQL	BQL
ASTAS840-MW04	11/6/2006	BQL	BQL
ASTAS840-MW04	1/18/2007	BQL	BQL

Notes:
1. 2L GWQS = North Carolina groundwater quality standard 15A NCAC 2L .0202
2. GCL = Gross Contamination Levels for ground water as defined in "Guidelines for Assessment and Corrective Action" North Carolina Underground Storage Tank Section, effective July 1, 2001
3. All units are in ug/L (Micrograms per Liter)
4. BQL = Below Quantitaion Limits
5. A zero in the 2L GWQS row indicates the 2L Standard is equal to the laboratory detection limit
6. A zero in the GCL row indicates a GCL has not been established
7. Shaded concentrations indicate exceedance of the 2L GWQS
8. Only compounds which were detected are shown on table. All other compounds were BQL

TABLE 5.4

SITE AS-840

GROUNDWATER LABORATORY ANALYTICAL RESULTS - JULY 2005 TO DECEMBER 2007

MADEP VPH/EPH

Contaminant of Concern →		C9-C18 Aliphatics	C9-C22 Aromatics
Well ID	Date		
2L GWQS		4200	210
GCL		0	0
ASTAS840-MW05	6/14/2006	BQL	BQL
ASTAS840-MW05	11/6/2006	BQL	BQL
ASTAS840-MW05	1/18/2007	BQL	BQL
ASTAS840-MW06	6/14/2006	BQL	BQL
ASTAS840-MW06	11/7/2006	BQL	BQL
ASTAS840-MW06	1/18/2007	BQL	BQL
ASTAS840-MW07	6/14/2006	BQL	170.00
ASTAS840-MW07	11/6/2006	BQL	BQL
ASTAS840-MW07	1/18/2007	130.00	BQL
ASTAS840-MW08	6/14/2006	BQL	BQL
ASTAS840-MW08	11/6/2006	BQL	BQL

Notes:
1. 2L GWQS = North Carolina groundwater quality standard 15A NCAC 2L .0202
2. GCL = Gross Contamination Levels for ground water as defined in "Guidelines for Assessment and Corrective Action" North Carolina Underground Storage Tank Section, effective July 1, 2001
3. All units are in ug/L (Micrograms per Liter)
4. BQL = Below Quantitaion Limits
5. A zero in the 2L GWQS row indicates the 2L Standard is equal to the laboratory detection limit
6. A zero in the GCL row indicates a GCL has not been established
7. Shaded concentrations indicate exceedance of the 2L GWQS
8. Only compounds which were detected are shown on table. All other compounds were BQL

TABLE 5.4

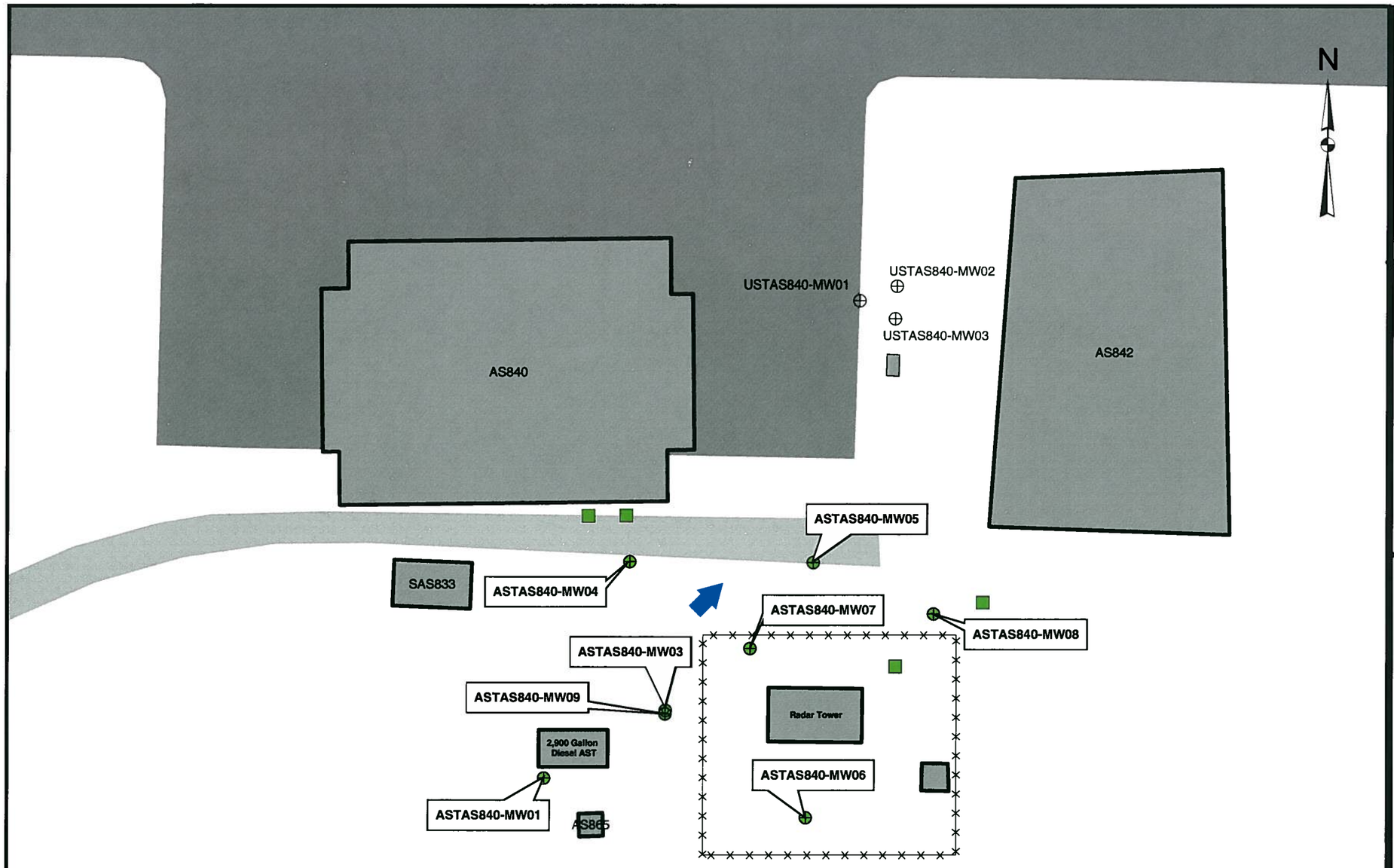
SITE AS-840

GROUNDWATER LABORATORY ANALYTICAL RESULTS - JULY 2005 TO DECEMBER 2007

MADEP VPH/EPH

Contaminant of Concern →		C9-C18 Aliphatics	C9-C22 Aromatics
Well ID	Date		
2L GWQS		4200	210
GCL		0	0
ASTAS840-MW09	6/14/2006	BQL	130.00
ASTAS840-MW09	11/7/2006	BQL	BQL
ASTAS840-MW09	1/18/2007	BQL	BQL

Notes:
1. 2L GWQS = North Carolina groundwater quality standard 15A NCAC 2L .0202
2. GCL = Gross Contamination Levels for ground water as defined in "Guidelines for Assessment and Corrective Action" North Carolina Underground Storage Tank Section, effective July 1, 2001
3. All units are in ug/L (Micrograms per Liter)
4. BQL = Below Quantitaion Limits
5. A zero in the 2L GWQS row indicates the 2L Standard is equal to the laboratory detection limit
6. A zero in the GCL row indicates a GCL has not been established
7. Shaded concentrations indicate exceedance of the 2L GWQS
8. Only compounds which were detected are shown on table. All other compounds were BQL



MCB CAMP LEJEUNE
UST MANAGEMENT PROGRAM
CALENDAR YEAR 2007

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Naval Facilities Engineering Command

LEGEND

Monitoring Wells
- Type I
- Type II
- Type III
- Pumping Well
- Unknown Well Type
- Water Supply Wells
- Above Ground Storage Tank
- Underground Storage Tank
- Railroad Tracks

Walls and Fences
- FENCE
- GATE
- WALL

Free Product
- Free Product Detected
- No Measurable Product
- Free Product Plume
- Buildings and Structures
- Demolished Structures
- Oil/Water Separators
- Slabs
- Roads
- Driveways
- Parking Lots
- Surface Water Bodies
- Creeks and Streams
- Historical Groundwater Flow Direction

Vegetation Cover
- Forestland
- Scrubland
- Wetland

Airfield Pavement
- HELIPAD
- RAMP
- RUNWAY
- SHLDR_OVERRUN
- TAXIWAY

NOTES

1. Free product was not detected at this site in any of the wells gauged during this monitoring event.

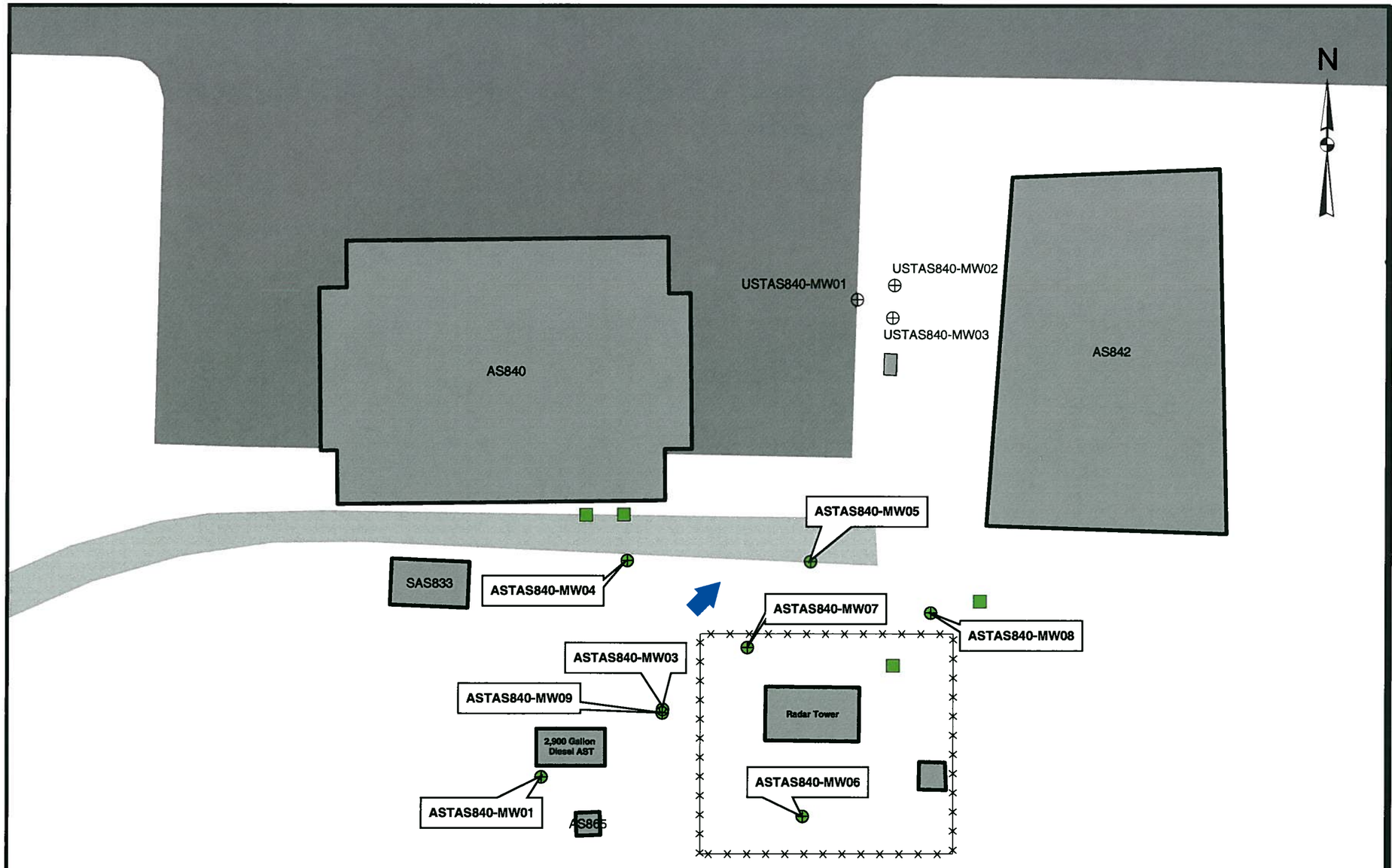
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SCALE

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SITE AS-840
FREE PRODUCT PLUME MAP
SECOND QUARTER 2006

FIGURE **5.1A**

Job No.:	Date:	Scale:	Drawn By:	Checked By:
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MCB CAMP LEJEUNE
UST MANAGEMENT PROGRAM
CALENDAR YEAR 2007

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LEGEND

Monitoring Wells
- Type I
- Type II
- Type III
- Pumping Well
- Unknown Well Type
- Water Supply Wells
- Above Ground Storage Tank
- Underground Storage Tank
- Railroad Tracks

Walls and Fences
- FENCE
- GATE
- WALL

Free Product
- Free Product Detected
- No Measurable Product
- Free Product Plume
- Buildings and Structures
- Demolished Structures
- Oil/Water Separators
- Slabs
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- Parking Lots
- Surface Water Bodies
- Creeks and Streams
- Historical Groundwater Flow Direction

Vegetation Cover
- Forestland
- Scrubland
- Wetland

Airfield Pavement
- HELIPAD
- RAMP
- RUNWAY
- SHLDR_OVERRUN
- TAXIWAY

NOTES

1. Free product was not detected at this site in any of the wells gauged during this monitoring event.

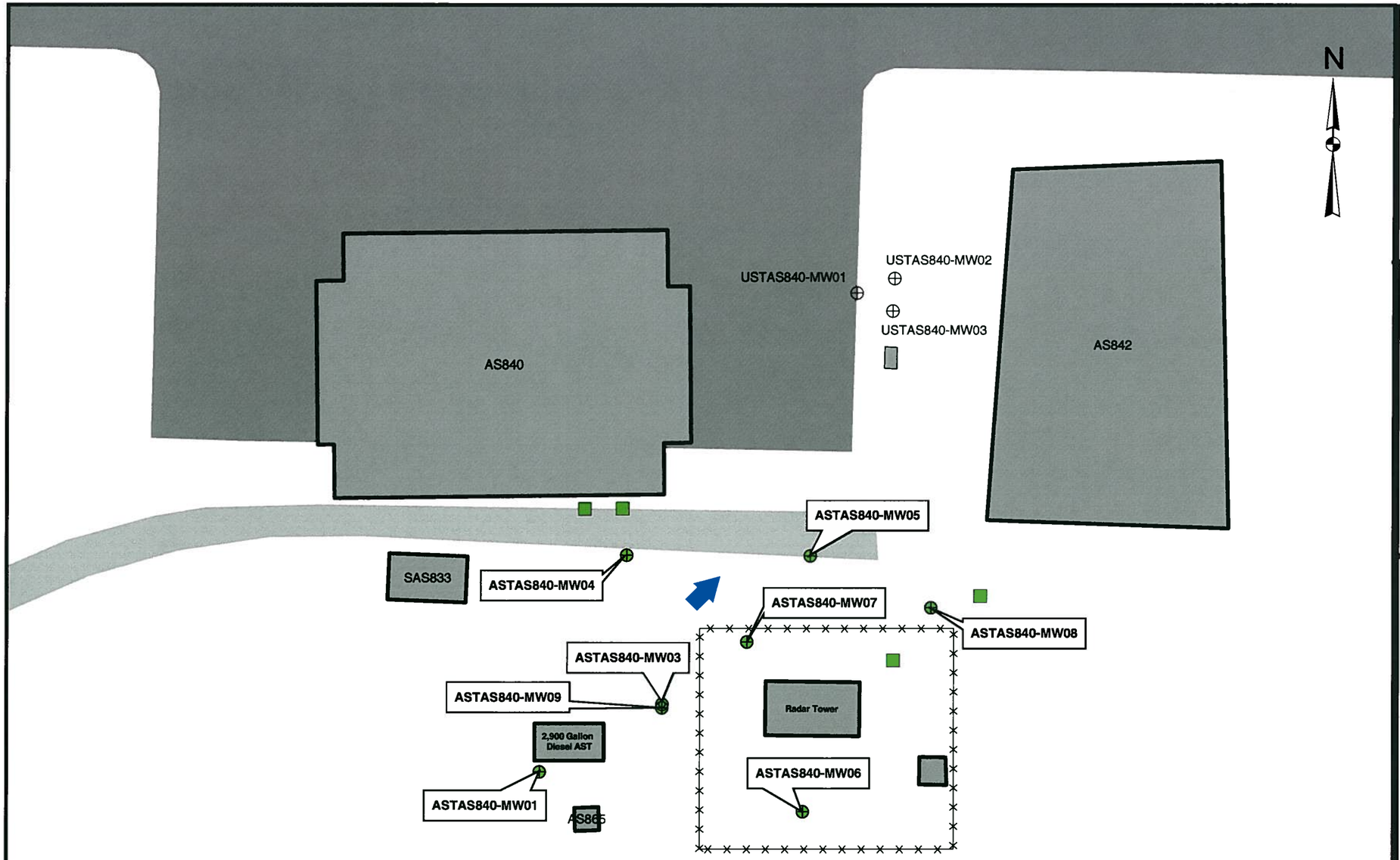
50 25 0 50 Feet
SCALE

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SITE AS-840
FREE PRODUCT PLUME MAP
FOURTH QUARTER 2006

FIGURE **5.1B**

Job No.:	Date:	Scale:	Drawn By:	Checked By:
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UST MANAGEMENT PROGRAM
CALENDAR YEAR 2007

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LEGEND

Monitoring Wells
- Type I
- Type II
- Type III
- Pumping Well
- Unknown Well Type
- Water Supply Wells
- Above Ground Storage Tank
- Underground Storage Tank
- Railroad Tracks

Walls and Fences
- FENCE
- GATE
- WALL

Free Product
- Free Product Detected
- No Measurable Product
- Free Product Plume
- Buildings and Structures
- Demolished Structures
- Oil/Water Separators
- Slabs
- Roads
- Driveways
- Parking Lots
- Surface Water Bodies
- Creeks and Streams
- Historical Groundwater Flow Direction

Vegetation Cover
- Forestland
- Scrubland
- Wetland

Airfield Pavement
- HELIPAD
- RAMP
- RUNWAY
- SHLDR_OVERRUN
- TAXIWAY

NOTES

1. Free product was not detected at this site in any of the wells gauged during this monitoring event.

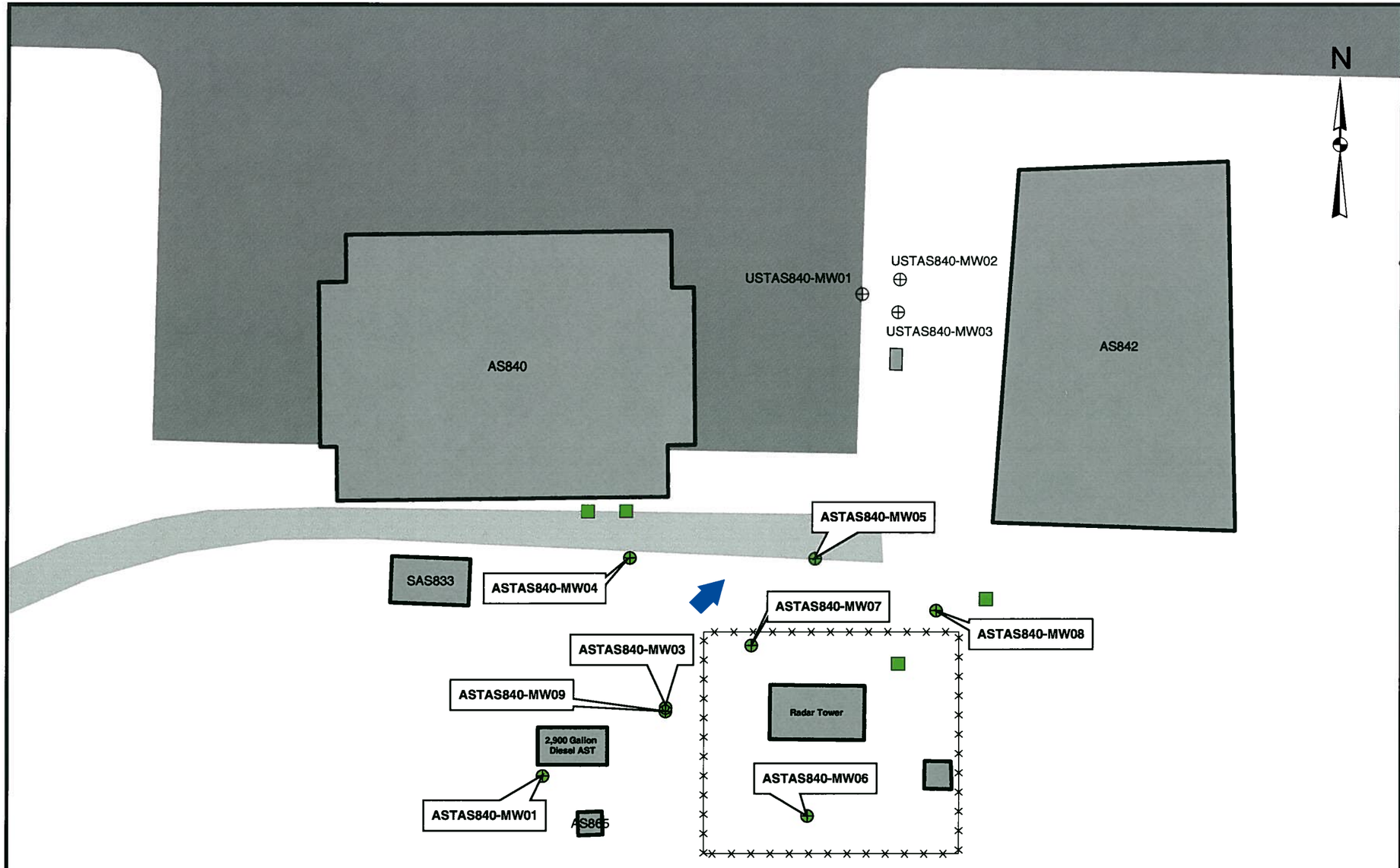
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SCALE

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SITE AS-840
FREE PRODUCT PLUME MAP
FIRST QUARTER 2007

FIGURE **5.1C**

Job No.:	Date:	Scale:	Drawn By:	Checked By:
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UST MANAGEMENT PROGRAM
CALENDAR YEAR 2007

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LEGEND

Monitoring Wells
- Type I
- Type II
- Type III
- Pumping Well
- Unknown Well Type
- Water Supply Wells
- Above Ground Storage Tank
- Underground Storage Tank
- Railroad Tracks

Walls and Fences
- FENCE
- GATE
- WALL

Free Product
- Free Product Detected
- No Measurable Product
- Free Product Plume
- Buildings and Structures
- Demolished Structures
- Oil/Water Separators
- Slabs
- Roads
- Driveways
- Parking Lots
- Surface Water Bodies
- Creeks and Streams
- Historical Groundwater Flow Direction

Vegetation Cover
- Forestland
- Scrubland
- Wetland

Airfield Pavement
- HELIPAD
- RAMP
- RUNWAY
- SHLDR_OVERRUN
- TAXIWAY

NOTES

1. Free product was not detected at this site in any of the wells gauged during this monitoring event.

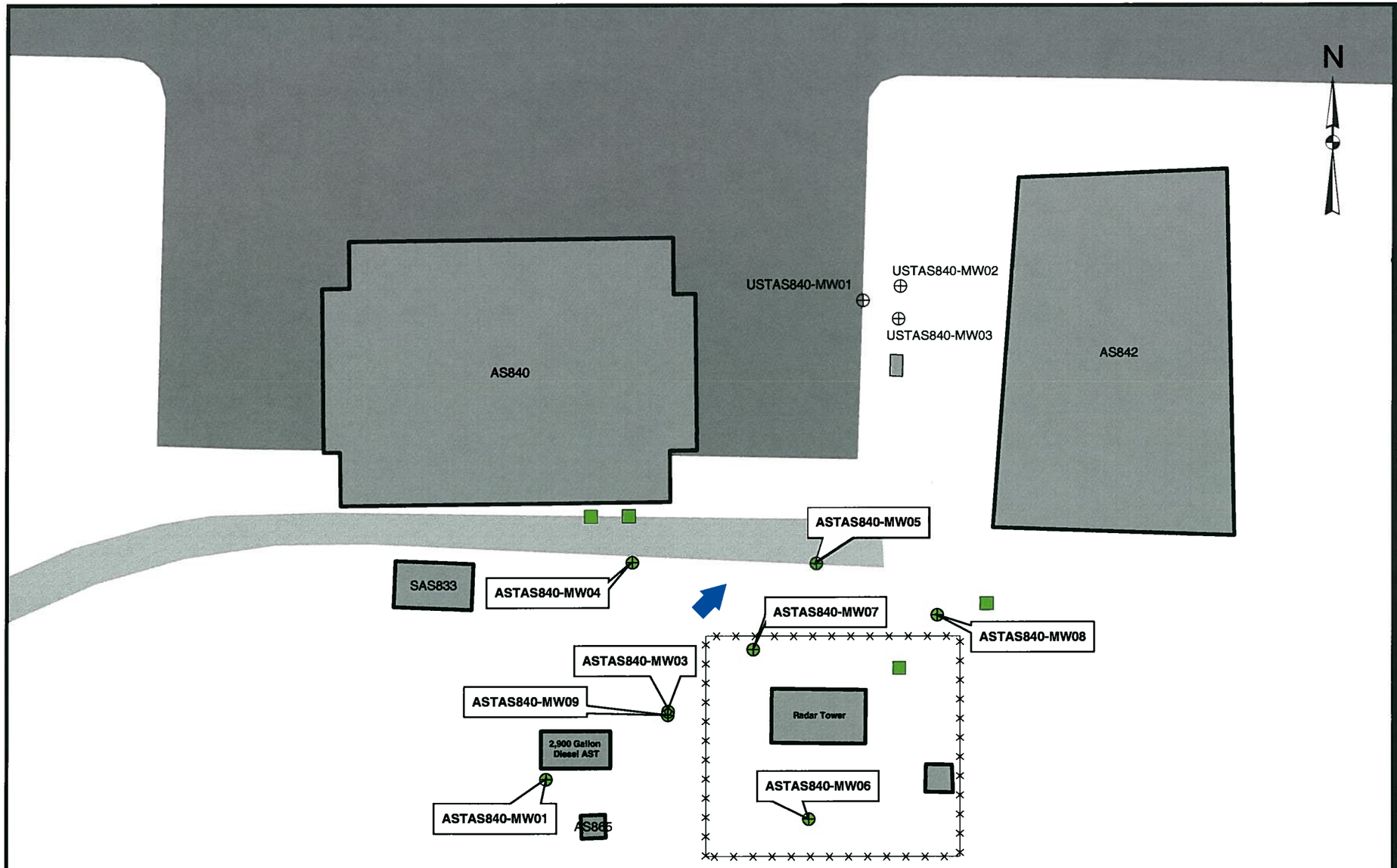
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SITE AS-840
FREE PRODUCT PLUME MAP
SECOND QUARTER 2007

FIGURE
5.1D

Job No.:	Date:	Scale:	Drawn By:	Checked By:
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UST MANAGEMENT PROGRAM
CALENDAR YEAR 2007

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LEGEND

Monitoring Wells
- Type I
- Type II
- Type III
- Pumping Well
- Unknown Well Type
- Water Supply Wells
- Above Ground Storage Tank
- Underground Storage Tank
- Railroad Tracks

Walls and Fences
- FENCE
- GATE
- WALL

Analytical Results
- Free Product Detected
- 2L Non-Compliant
- 2L Compliant
- EPA 602 Plume
- Buildings and Structures
- Demolished Structures
- Oil/Water Separators
- Slabs
- Roads
- Driveways
- Parking Lots
- Surface Water Bodies
- Creeks and Streams
- Historical Groundwater Flow Direction

Vegetation Cover
- Forestland
- Scrubland
- Wetland

Airfield Pavement
- HELIPAD
- RAMP
- RUNWAY
- SHLDR_OVERRUN
- TAXIWAY

NOTES

1. No EPA Method 602 compounds were detected above the 2L GWQS for any wells sampled during this monitoring event.

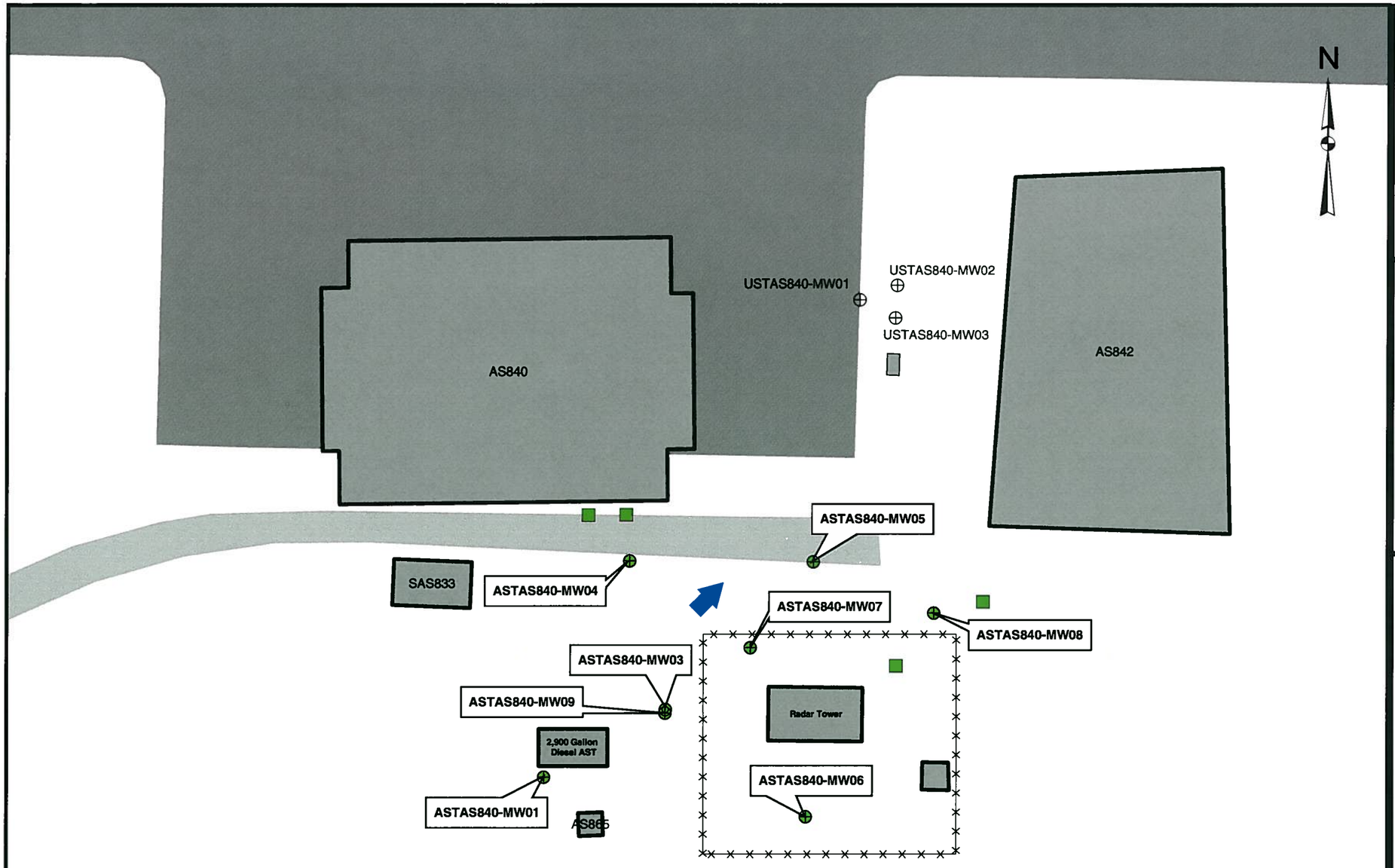
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SCALE

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SITE AS-840
EPA METHOD 602 COLORIMETRY AND PLUME IN EXCESS OF 2L SECOND QUARTER 2006

FIGURE **5.2A**

Job No.:	Date:	Scale:	Drawn By:	Checked By:
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UST MANAGEMENT PROGRAM
CALENDAR YEAR 2007

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LEGEND

Monitoring Wells
- Type I
- Type II
- Type III
- Pumping Well
- Unknown Well Type
- Water Supply Wells
- Above Ground Storage Tank
- Underground Storage Tank
- Railroad Tracks

Walls and Fences
- FENCE
- GATE
- WALL

Analytical Results
- Free Product Detected
- 2L Non-Compliant
- 2L Compliant
- EPA 602 Plume
- Buildings and Structures
- Demolished Structures
- Oil/Water Separators
- Slabs
- Roads
- Driveways
- Parking Lots
- Surface Water Bodies
- Creeks and Streams
- Historical Groundwater Flow Direction

Vegetation Cover
- Forestland
- Scrubland
- Wetland

Airfield Pavement
- HELIPAD
- RAMP
- RUNWAY
- SHLDR_OVERRUN
- TAXIWAY

NOTES

1. No EPA Method 602 compounds were detected above the 2L GWQS for any wells sampled during this monitoring event.

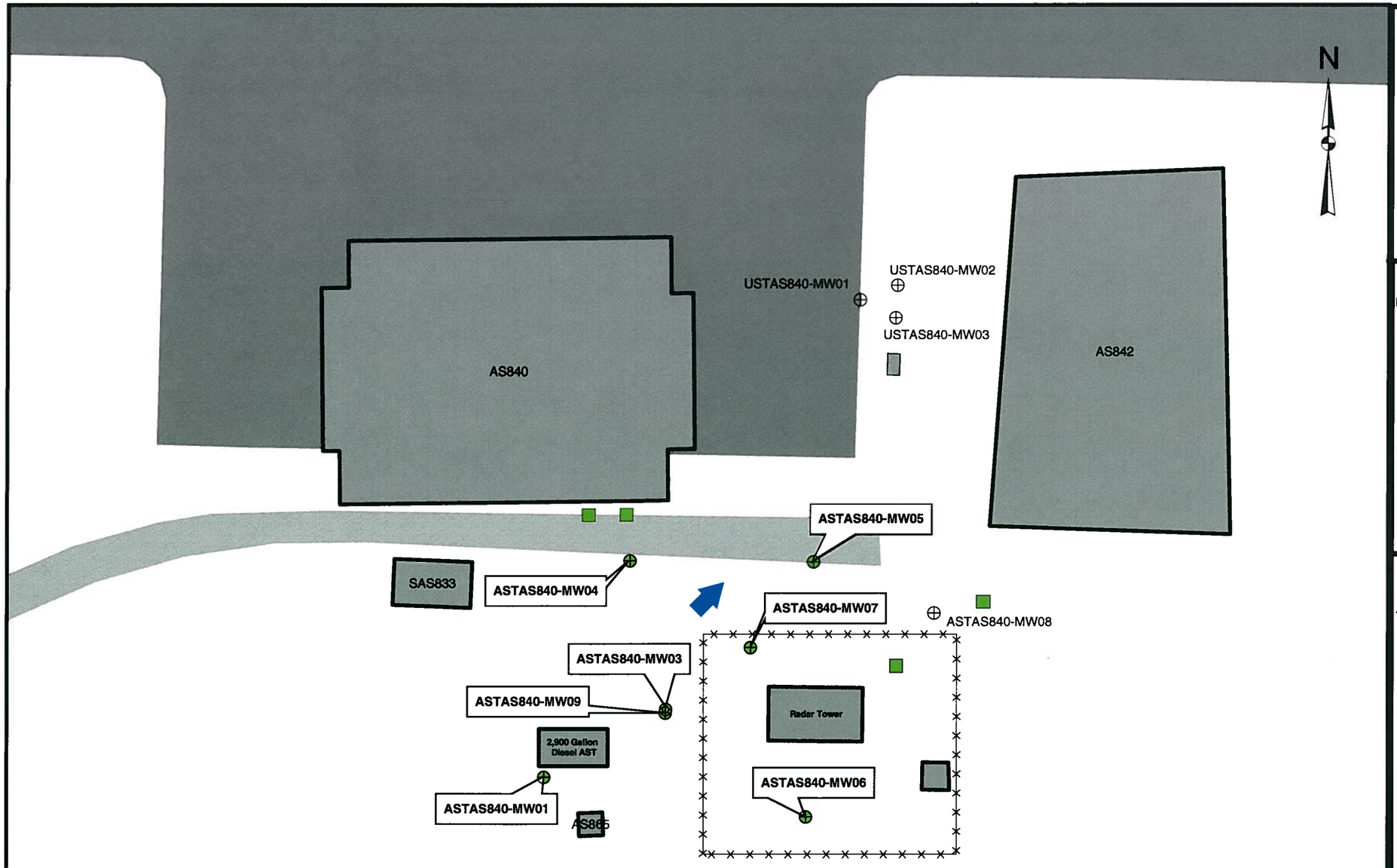
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SCALE

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SITE AS-840
EPA METHOD 602 COLORIMETRY AND PLUME IN EXCESS OF 2L
FOURTH QUARTER 2006

FIGURE **5.2B**

Job No.:	Date:	Scale:	Drawn By:	Checked By:
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MCB CAMP LEJEUNE
UST MANAGEMENT PROGRAM
CALENDAR YEAR 2007

NAVFAC
Naval Facilities Engineering Command

LEGEND

Monitoring Wells
- Type I
- Type II
- Type III
- Pumping Well
- Unknown Well Type
- Water Supply Wells
- Above Ground Storage Tank
- Underground Storage Tank
- Railroad Tracks

Walls and Fences
- FENCE
- GATE
- WALL

Analytical Results
- Free Product Detected
- 2L Non-Compliant
- 2L Compliant
- EPA 602 Plume
- Buildings and Structures
- Demolished Structures
- Oil/Water Separators
- Slabs
- Roads
- Driveways
- Parking Lots
- Surface Water Bodies
- Creeks and Streams
- Historical Groundwater Flow Direction

Vegetation Cover
- Forestland
- Scrubland
- Wetland

Airfield Pavement
- HELIPAD
- RAMP
- RUNWAY
- SHLDR_OVERRUN
- TAXIWAY

NOTES

1. No EPA Method 602 compounds were detected above the 2L GWQS for any wells sampled during this monitoring event.

50 25 0 50 Feet
SCALE

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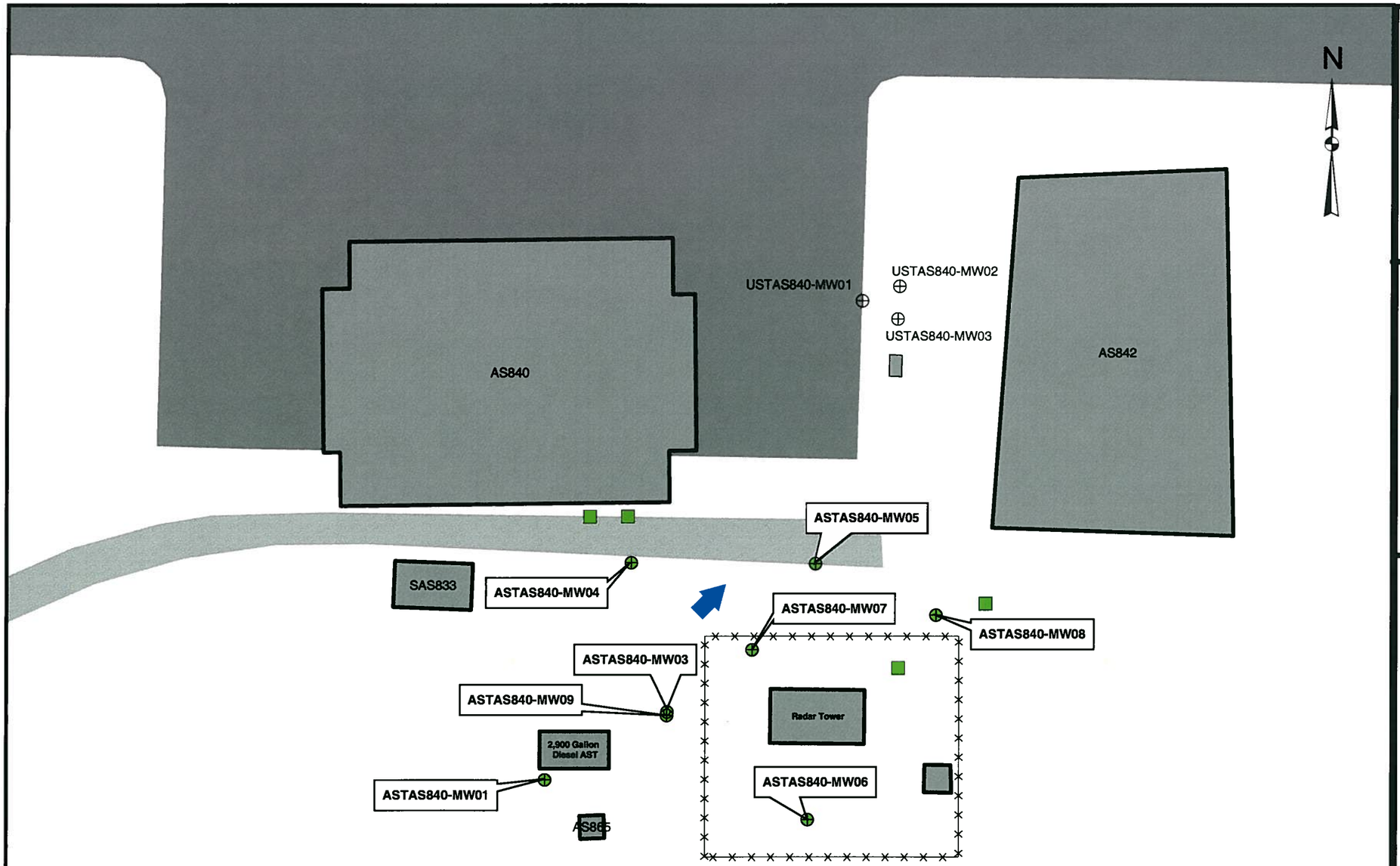
SITE AS-840
EPA METHOD 602 COLORIMETRY AND PLUME IN EXCESS OF 2L FIRST QUARTER 2007

FIGURE **5.2C**

Job No.:	Date:	Scale:	Drawn By:	Checked By:
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MCB CAMP LEJEUNE
UST MANAGEMENT PROGRAM
CALENDAR YEAR 2007

NAVFAC
Naval Facilities Engineering Command



LEGEND

Monitoring Wells
- Type I
- Type II
- Type III
- Pumping Well
- Unknown Well Type
- Water Supply Wells
- Above Ground Storage Tank
- Underground Storage Tank
- Railroad Tracks

Walls and Fences
- FENCE
- GATE
- WALL

Analytical Results
- Free Product Detected
- 2L Non-Compliant
- 2L Compliant
- EPA 602 Plume
- Buildings and Structures
- Demolished Structures
- Oil/Water Separators
- Slabs
- Roads
- Driveways
- Parking Lots
- Surface Water Bodies
- Creeks and Streams
- Historical Groundwater Flow Direction

Vegetation Cover
- Forestland
- Scrubland
- Wetland

Airfield Pavement
- HELIPAD
- RAMP
- RUNWAY
- SHLDR_OVERRUN
- TAXIWAY

NOTES

1. No EPA Method 602 compounds were detected above the 2L GWQS for any wells sampled during this monitoring event.

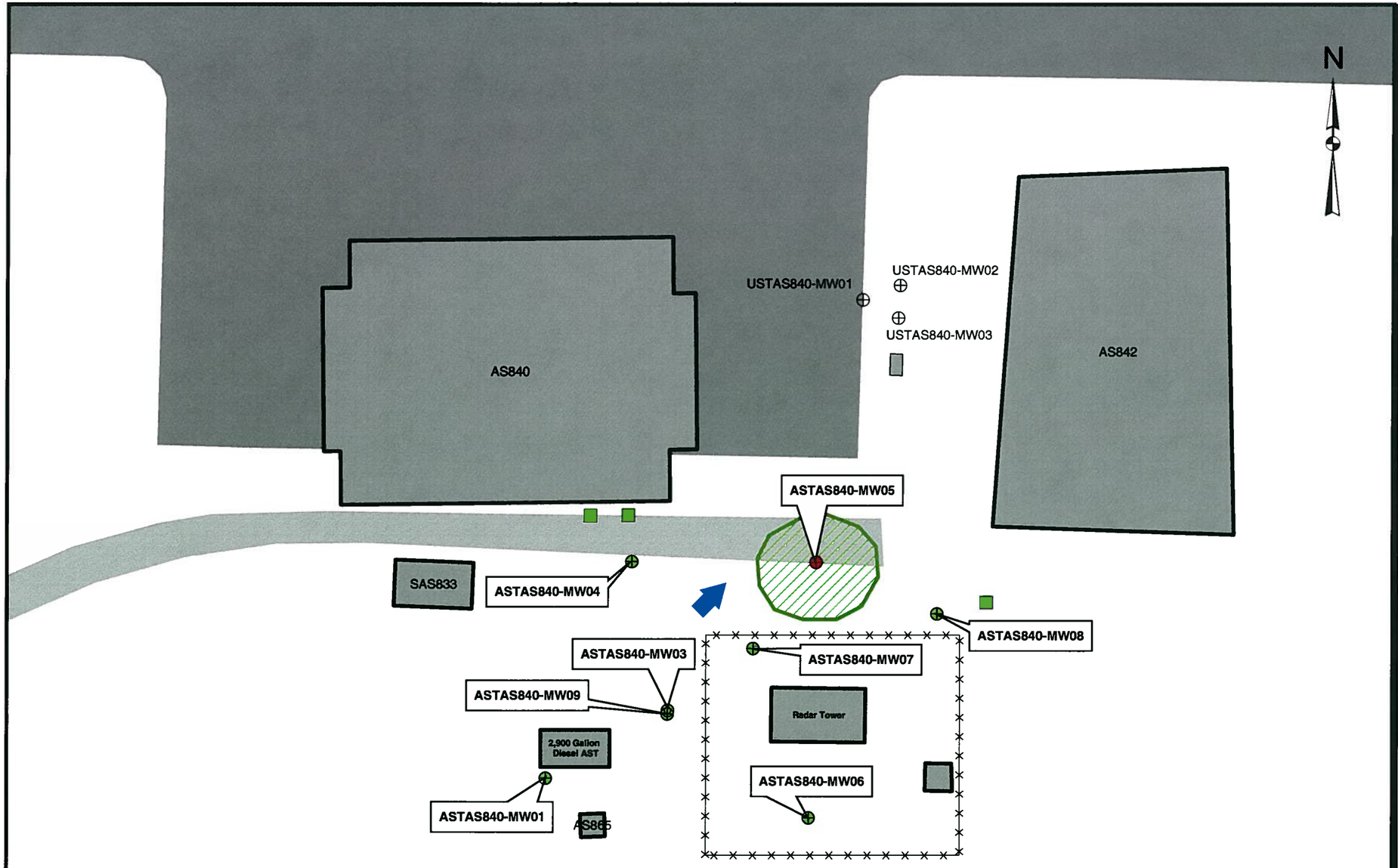
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SITE AS-840
EPA METHOD 602 COLORIMETRY AND PLUME IN EXCESS OF 2L SECOND QUARTER 2007

FIGURE **5.2D**

Job No.:	Date:	Scale:	Drawn By:	Checked By:
207-002	DEC 2007	AS SHOWN	SAC	MEM



MCB CAMP LEJEUNE
UST MANAGEMENT PROGRAM
CALENDAR YEAR 2007

NAVFAC
Naval Facilities Engineering Command

LEGEND

Monitoring Wells
- Type I
- Type II
- Type III
- Pumping Well
- Unknown Well Type
- Water Supply Wells
- Above Ground Storage Tank
- Underground Storage Tank
- Railroad Tracks

Walls and Fences
- FENCE
- GATE
- WALL

Analytical Results
- Free Product Detected
- 2L Non-Compliant
- 2L Compliant
- EPA 625 Plume

- Buildings and Structures
- Demolished Structures
- Oil/Water Separators
- Slabs
- Roads
- Driveways
- Parking Lots
- Surface Water Bodies
- Creeks and Streams
- Historical Groundwater Flow Direction

Vegetation Cover
- Forestland
- Scrubland
- Wetland

Airfield Pavement
- HELIPAD
- RAMP
- RUNWAY
- SHLDR_OVERRUN
- TAXIWAY

NOTES

1. 2L Standard refers to North Carolina Groundwater Quality Standard 15A NCAC 2L.0202.
2. GCL refers to Gross Contaminant Level as defined in Table 7 of "Groundwater Section Guidelines for the Investigation and Remediation of Soil and Ground Water", Volume II, dated January 2, 1998.
3. A 2L Standard of "0.00" implies a standard has not yet been established. According to NCAC T15:02L, any compound found above laboratory detection limits is considered noncompliant unless otherwise specified by the NCDENR.

Well ID	Well Type	Date	Method	Parameter	Result	Units	2L GWQS	GCL
ASTAS840-MW05	T-II	6/14/2006	625	Bis(2-ethylhexyl)phthalate	19.5000	UG/L	2.5000	2500.0000

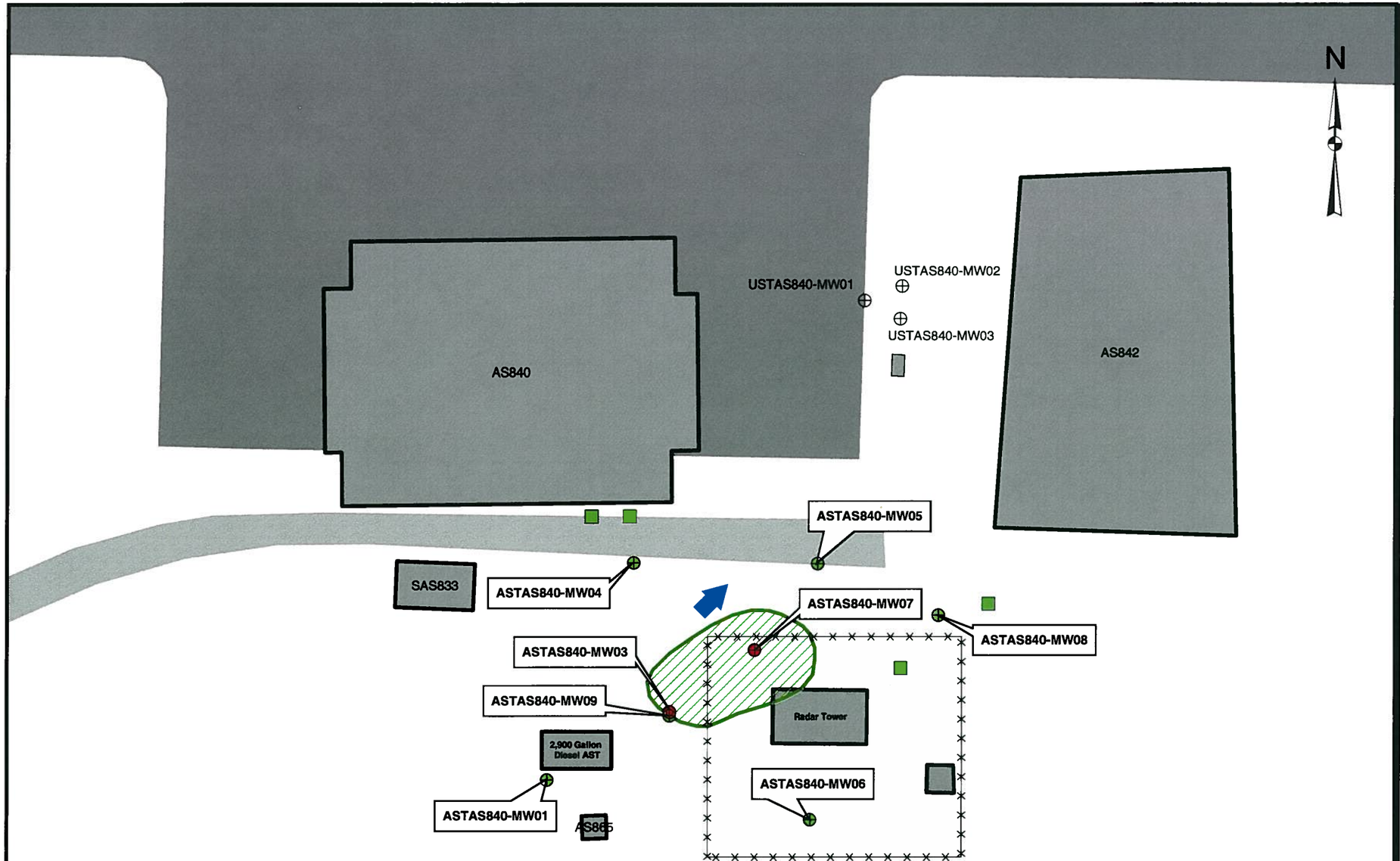
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SCALE

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SITE AS-840
EPA METHOD 625 COLORIMETRY AND PLUME IN EXCESS OF 2L SECOND QUARTER 2006

FIGURE **5.3A**

Job No.:	Date:	Scale:	Drawn By:	Checked By:
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MCB CAMP LEJEUNE
UST MANAGEMENT PROGRAM
CALENDAR YEAR 2007

NAVFAC
Naval Facilities Engineering Command

LEGEND

Monitoring Wells
- Type I
- Type II
- Type III
- Pumping Well
- Unknown Well Type
- Water Supply Wells
- Above Ground Storage Tank
- Underground Storage Tank
- Railroad Tracks

Walls and Fences
- FENCE
- GATE
- WALL

Analytical Results
- Free Product Detected
- 2L Non-Compliant
- 2L Compliant
- EPA 625 Plume

Buildings and Structures
- Demolished Structures
- Oil/Water Separators
- Slabs
- Roads
- Driveways
- Parking Lots
- Surface Water Bodies
- Creeks and Streams
- Historical Groundwater Flow Direction

Vegetation Cover
- Forestland
- Scrubland
- Wetland

Airfield Pavement
- HELIPAD
- RAMP
- RUNWAY
- SHLDR_OVERRUN
- TAXIWAY

NOTES

1. 2L Standard refers to North Carolina Groundwater Quality Standard 15A NCAC 2L.0202.
2. GCL refers to Gross Contaminant Level as defined in Table 7 of "Groundwater Section Guidelines for the Investigation and Remediation of Soil and Ground Water", Volume II, dated January 2, 1998.
3. A 2L Standard of "0.00" implies a standard has not yet been established. According to NCAC T15:02L, any compound found above laboratory detection limits is considered noncompliant unless otherwise specified by the NCDENR.

Well ID	Well Type	Date	Method	Parameter	Result	Units	2L GWQS	GCL
ASTAS840-MW03	T-III	11/7/2006	625	Bis(2-ethylhexyl)phthalate	10.2000	UG/L	2.5000	2500.0000
ASTAS840-MW07	T-II	11/6/2006	625	Bis(2-ethylhexyl)phthalate	3.3000	UG/L	2.5000	2500.0000

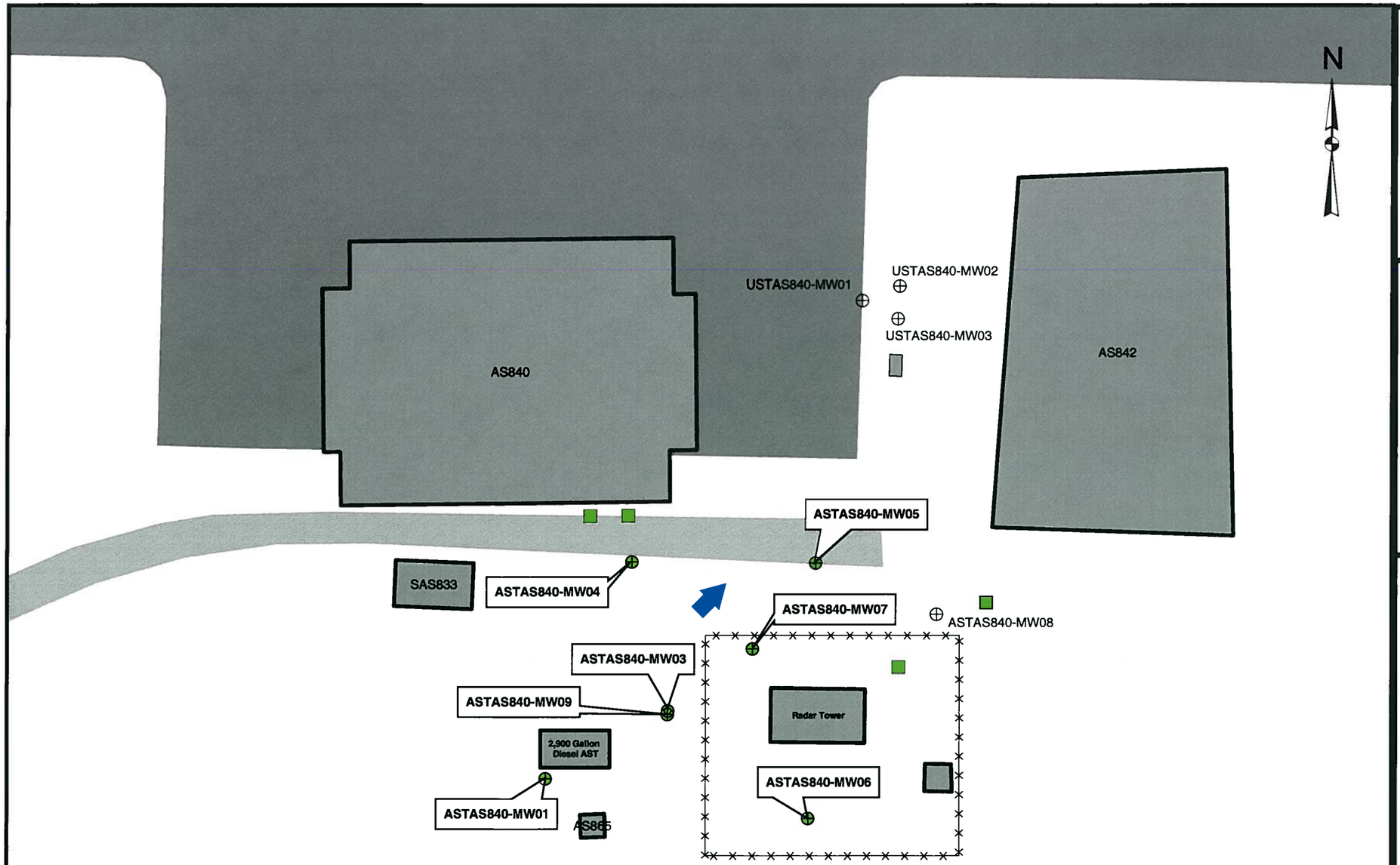
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SCALE

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SITE AS-840
EPA METHOD 625 COLORIMETRY AND PLUME IN EXCESS OF 2L FOURTH QUARTER 2006

FIGURE **5.3B**

Job No.:	Date:	Scale:	Drawn By:	Checked By:
207-002	DEC 2007	AS SHOWN	SAC	MEM



MCB CAMP LEJEUNE
UST MANAGEMENT PROGRAM
CALENDAR YEAR 2007

NAVFAC
Naval Facilities Engineering Command

LEGEND

Monitoring Wells
- Type I
- Type II
- Type III
- Pumping Well
- Unknown Well Type
- Water Supply Wells
- Above Ground Storage Tank
- Underground Storage Tank
- Railroad Tracks

Walls and Fences
- FENCE
- GATE
- WALL

Analytical Results
- Free Product Detected
- 2L Non-Compliant
- 2L Compliant
- EPA 625 Plume
- Buildings and Structures
- Demolished Structures
- Oil/Water Separators
- Slabs
- Roads
- Driveways
- Parking Lots
- Surface Water Bodies
- Creeks and Streams
- Historical Groundwater Flow Direction

Vegetation Cover
- Forestland
- Scrubland
- Wetland

Airfield Pavement
- HELIPAD
- RAMP
- RUNWAY
- SHLDR_OVERRUN
- TAXIWAY

NOTES

1. No EPA Method 625 compounds were detected above the 2L GWQS for any wells sampled during this monitoring event.

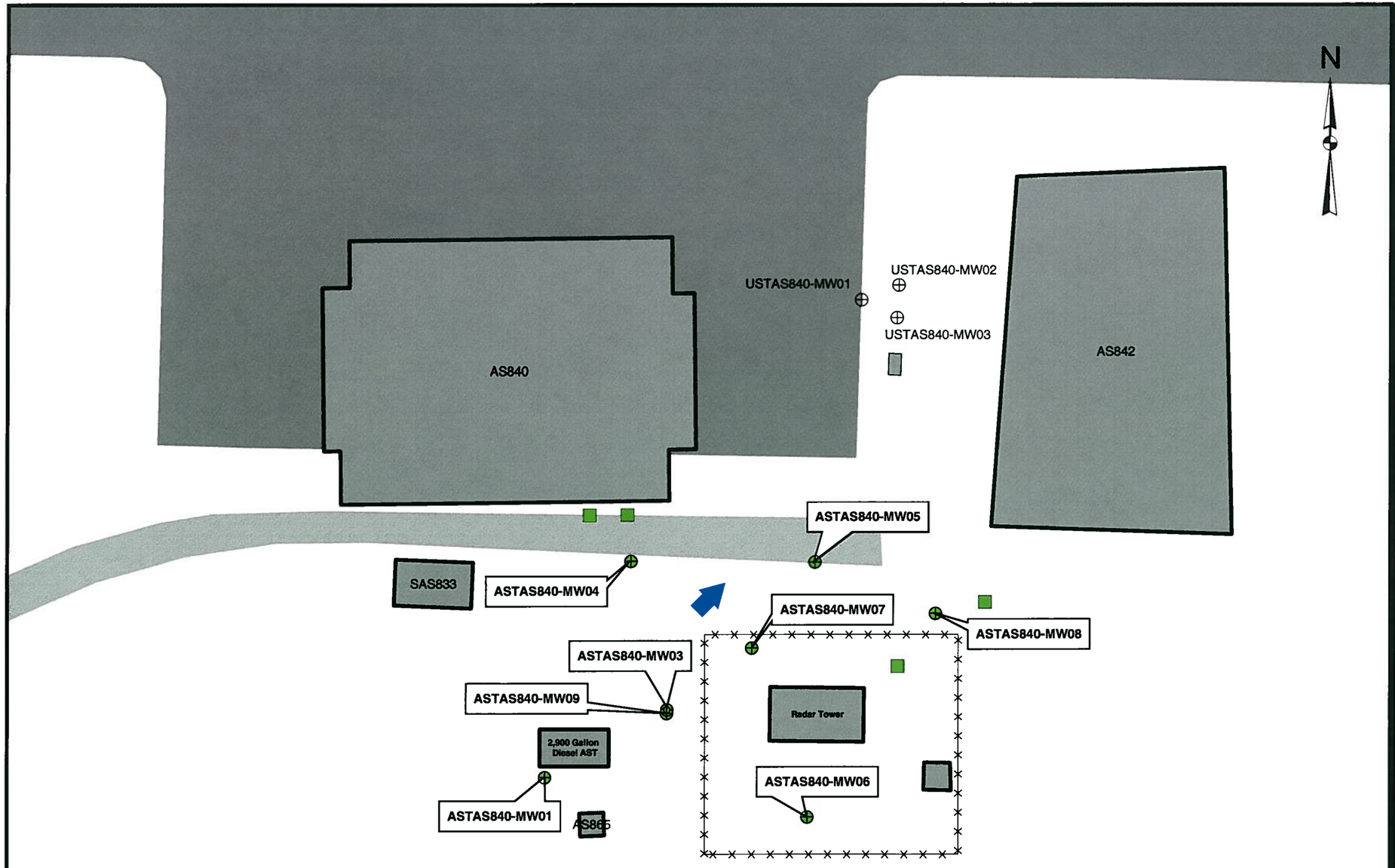
50 25 0 50 Feet
SCALE

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SITE AS-840
EPA METHOD 625 COLORIMETRY AND PLUME IN EXCESS OF 2L FIRST QUARTER 2007

FIGURE **5.3C**

Job No.:	Date:	Scale:	Drawn By:	Checked By:
207-002	DEC 2007	AS SHOWN	SAC	MEM



MCB CAMP LEJEUNE
UST MANAGEMENT PROGRAM
CALENDAR YEAR 2007

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LEGEND

Monitoring Wells
- Type I
- Type II
- Type III
- Pumping Well
- Unknown Well Type
- Water Supply Wells
- Above Ground Storage Tank
- Underground Storage Tank
- Railroad Tracks

Walls and Fences
- FENCE
- GATE
- WALL

Analytical Results
- Free Product Detected
- 2L Non-Compliant
- 2L Compliant
- EPA 625 Plume
- Buildings and Structures
- Demolished Structures
- Oil/Water Separators
- Slabs
- Roads
- Driveways
- Parking Lots
- Surface Water Bodies
- Creeks and Streams
- Historical Groundwater Flow Direction

Vegetation Cover
- Forestland
- Scrubland
- Wetland

Airfield Pavement
- HELIPAD
- RAMP
- RUNWAY
- SHLDR_OVERRUN
- TAXIWAY

NOTES

1. No EPA Method 625 compounds were detected above the 2L GWQS for any wells sampled during this monitoring event.

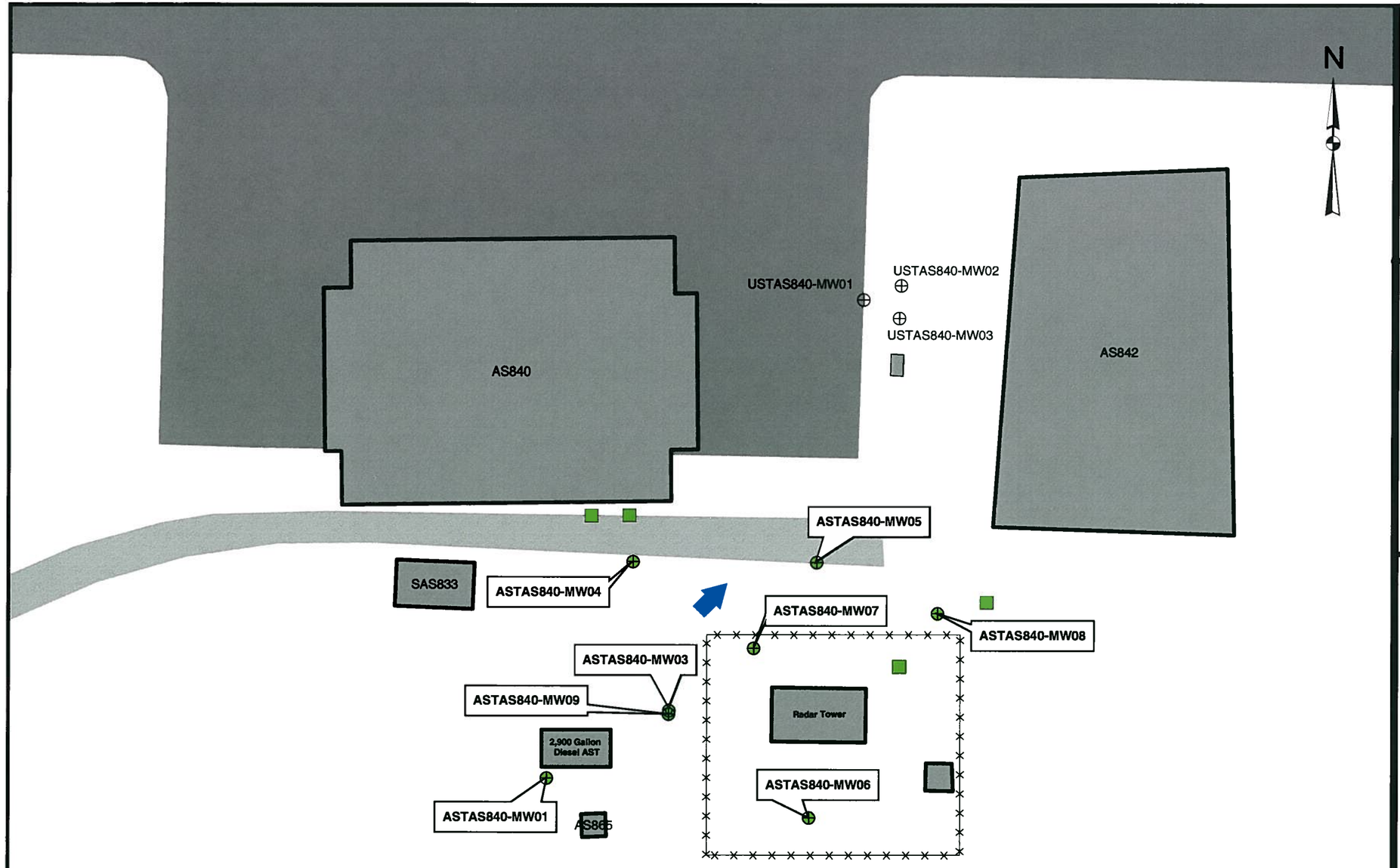
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SCALE

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SITE AS-840
EPA METHOD 625 COLORIMETRY AND PLUME IN EXCESS OF 2L
SECOND QUARTER 2007

FIGURE **5.3D**

Job No.:	Date:	Scale:	Drawn By:	Checked By:
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MCB CAMP LEJEUNE
UST MANAGEMENT PROGRAM
CALENDAR YEAR 2007

NAVFAC
Naval Facilities Engineering Command

LEGEND

Monitoring Wells
- Type I
- Type II
- Type III
- Pumping Well
- Unknown Well Type
- Water Supply Wells
- Above Ground Storage Tank
- Underground Storage Tank
- Railroad Tracks

Walls and Fences
- FENCE
- GATE
- WALL

Analytical Results
- Free Product Detected
- 2L Non-Compliant
- 2L Compliant
- MADEP Plume

- Buildings and Structures
- Demolished Structures
- Oil/Water Separators
- Slabs
- Roads
- Driveways
- Parking Lots
- Surface Water Bodies
- Creeks and Streams
- Historical Groundwater Flow Direction

Vegetation Cover
- Forestland
- Scrubland
- Wetland

Airfield Pavement
- HELIPAD
- RAMP
- RUNWAY
- SHLDR_OVERRUN
- TAXIWAY

NOTES

1. No MADEP VPH/EPH compounds were detected above the 2L GWQS for any wells sampled during this monitoring event.

50 25 0 50 Feet
SCALE

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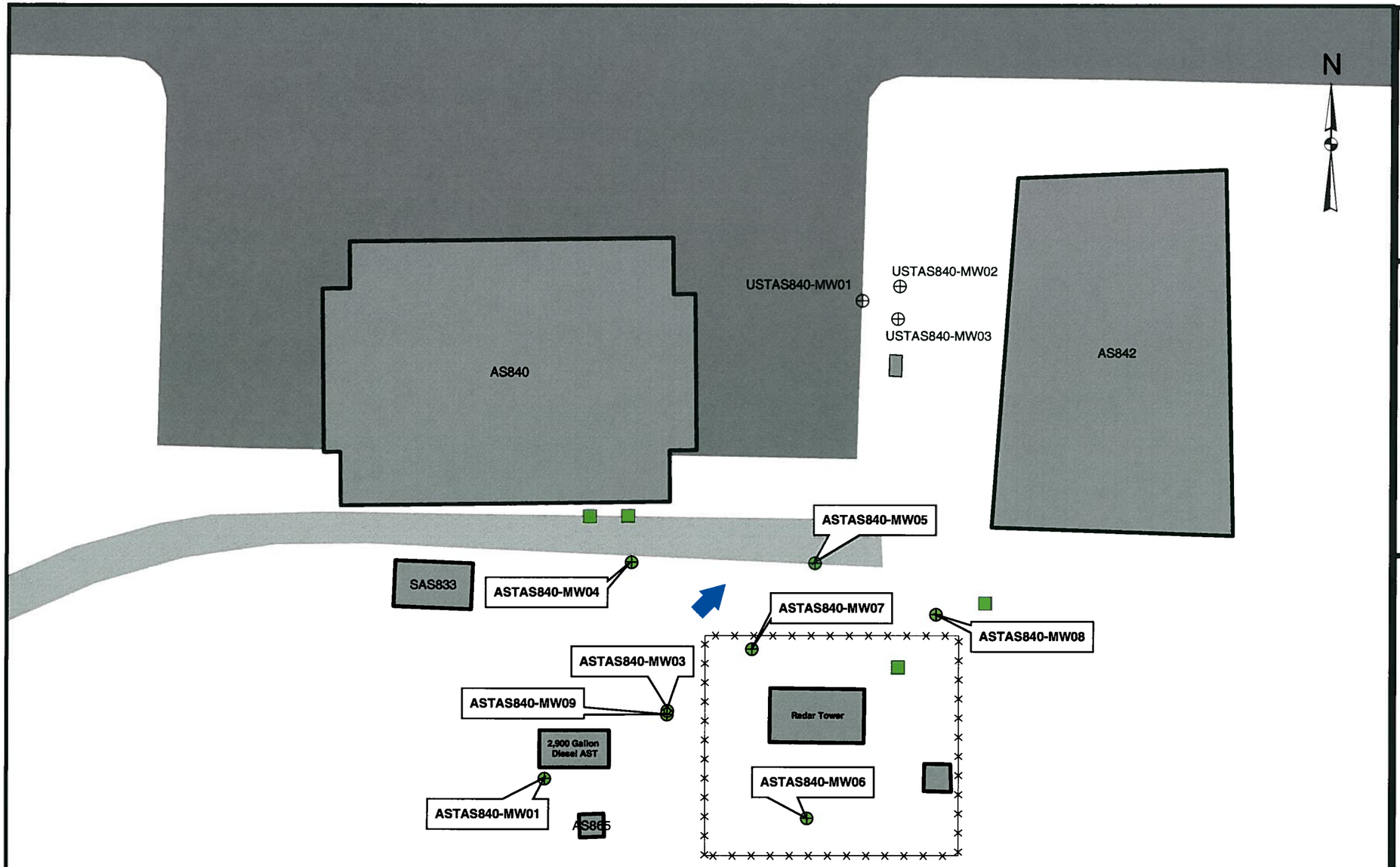
SITE AS-840
MADEP VPH/EPH COLORIMETRY AND PLUME IN EXCESS OF 2L
SECOND QUARTER 2006

FIGURE **5.4A**

Job No.:	Date:	Scale:	Drawn By:	Checked By:
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MCB CAMP LEJEUNE
UST MANAGEMENT PROGRAM
CALENDAR YEAR 2007

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Naval Facilities Engineering Command



LEGEND

Monitoring Wells
- Type I
- Type II
- Type III
- Pumping Well
- Unknown Well Type
- Water Supply Wells
- Above Ground Storage Tank
- Underground Storage Tank
- Railroad Tracks

Walls and Fences
- FENCE
- GATE
- WALL

Analytical Results
- Free Product Detected
- 2L Non-Compliant
- 2L Compliant
- MADEP Plume
- Buildings and Structures
- Demolished Structures
- Oil/Water Separators
- Slabs
- Roads
- Driveways
- Parking Lots
- Surface Water Bodies
- Creeks and Streams
- Historical Groundwater Flow Direction

Vegetation Cover
- Forestland
- Scrubland
- Wetland

Airfield Pavement
- HELIPAD
- RAMP
- RUNWAY
- SHLDR_OVERRUN
- TAXIWAY

NOTES

1. No MADEP VPH/EPH compounds were detected above the 2L GWQS for any wells sampled during this monitoring event.

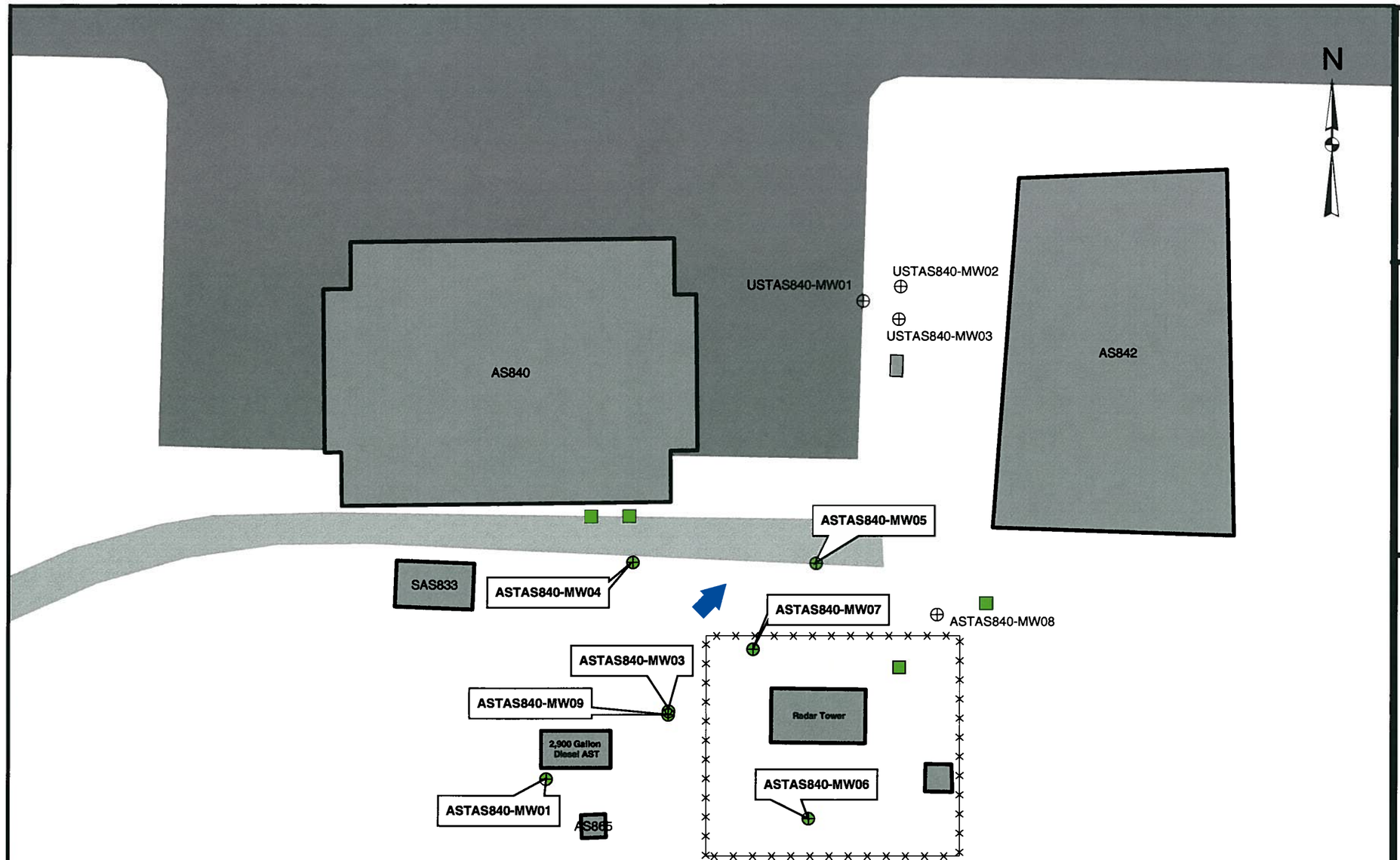
50 25 0 50 Feet
SCALE

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SITE AS-840
MADEP VPH/EPH COLORIMETRY AND PLUME IN EXCESS OF 2L
FOURTH QUARTER 2006

FIGURE **5.4B**

Job No.:	Date:	Scale:	Drawn By:	Checked By:
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MCB CAMP LEJEUNE
UST MANAGEMENT PROGRAM
CALENDAR YEAR 2007

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Naval Facilities Engineering Command

LEGEND

Monitoring Wells
- Type I
- Type II
- Type III
- Pumping Well
- Unknown Well Type
- Water Supply Wells
- Above Ground Storage Tank
- Underground Storage Tank
- Railroad Tracks

Walls and Fences
- FENCE
- GATE
- WALL

Analytical Results
- Free Product Detected
- 2L Non-Compliant
- 2L Compliant
- MADEP Plume
- Buildings and Structures
- Demolished Structures
- Oil/Water Separators
- Slabs
- Roads
- Driveways
- Parking Lots
- Surface Water Bodies
- Creeks and Streams
- Historical Groundwater Flow Direction

Vegetation Cover
- Forestland
- Scrubland
- Wetland

Airfield Pavement
- HELIPAD
- RAMP
- RUNWAY
- SHLDR_OVERRUN
- TAXIWAY

NOTES

1. No MADEP VPH/EPH compounds were detected above the 2L GWQS for any wells sampled during this monitoring event.

50 25 0 50 Feet
SCALE

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SITE AS-840
MADEP VPH/EPH COLORIMETRY AND PLUME IN EXCESS OF 2L
FIRST QUARTER 2007

FIGURE **5.4C**

Job No.:	Date:	Scale:	Drawn By:	Checked By:
207-002	DEC 2007	AS SHOWN	SAC	MEM

SECTION 6.0

OF THE

ANNUAL MANAGEMENT REPORT
MCB CAMP LEJEUNE UST MANAGEMENT PROGRAM

MONITORING EVENT:

YEAR 2007
(JANUARY – DECEMBER 2007)

SITE-SPECIFIC MONITORING REPORT
FOR

SITE AS-843

NCDENR INCIDENT NO. 21272

6.0 EXECUTIVE SUMMARY
SITE AS-843

6.1 Site Information

6.1.1 Site Location: MCAS New River
6.1.2 Incident Number(s): 21272
6.1.3 UTM Coordinates (WGS84) (Meters): 277157.54 Easting, 3843587.14 Northing
6.1.4 Risk Classification: Low
6.1.5 Land Use Classification: Industrial/Commercial
1.1.6 Source Type(s): 1,000 gallon and 550 gallon Diesel USTs

6.2 Monitoring Event Information

6.2.1 Sampling Performed By: Sovereign
6.2.2 Date(s) of This Monitoring Event: January 2007
6.2.3 Date(s) of Previous Monitoring Event: July 2006
6.2.4 Reason(s) for This Monitoring Event: Gauging of five on-site monitoring wells to track any reappearance of free product.
6.2.5 Site Monitoring Status at Time of This Event: Site qualifies for NFA with LURs. This site is currently on a schedule for semi-annual gauging and biennial groundwater sampling. The groundwater at the subject site was last sampled in July 2006 therefore, groundwater sampling should be conducted during July 2008.

6.3 Groundwater Hydraulics

6.3.1 Hydraulic Conductivity: Unknown
6.3.2 Effective Porosity: Unknown
6.3.3 Hydraulic Gradient: 0.062 feet/feet (Calculated by Engineering and Environment, Inc. [EEI] in August 2005)
6.3.4 Average Linear Groundwater Flow Velocity: Unknown
6.3.5 Groundwater Flow Direction: East-Northeast
6.3.6 Range of Measured Water Table Elevations: See Table 6.1
6.3.7 Significant Changes from Previously Reported Data: None.

6.4 Free Product Plume

6.4.1 Free Product Present?: No. Historically minor amounts of free product detected in USTAS843-MW04.
6.4.2 Free Product Thickness Measured: Not Applicable.
6.4.3 Plume Size and Location: Not Applicable.
6.4.4 Free Product Removed from Site This Period: Not Applicable.
6.4.5 Significant Changes from Previously Reported Data: None. See Figure 6.1.

6.5 Dissolved-Phase Plume

6.5.1 Plume Concentrations: Not Measured.
6.5.2 Plume Size and Location: Not Measured.
6.5.3 Significant Changes from Previously Reported Data: Not Applicable. No groundwater analytical results were collected during the current reporting period. Below is a summary of the July 2006 analytical data compared to the 2L GWQS.

EPA Method 6210D

The analytical results from the July 2006 monitoring event revealed Benzene at a concentration of 1.17 ug/L in USTAS843-MW03, which is above the 2L GWQS of 1 ug/L for this compound. Also, in sample USTAS843-MW03 Naphthalene was detected at a concentration of 23 ug/L which is above the 2L GWQS of 21 ug/L for this compound. 4-Isopropyltoluene was detected at concentrations of 0.44 ug/L, 0.39 ug/L and 0.40 ug/L in samples USTAS843-MW02, USTAS843-MW03 and USTAS843-MW04, respectively. There is no established 2L GWQS for 4-Isopropyltoluene, therefore any detection of this compound was considered an exceedance of the standard. All other EPA Method 6210D compounds were either report as below quantitation limits (BQL) or detected at concentrations below the 2L GWQS.

EPA Method 625

No EPA Method 625 compounds were detected at concentrations above the 2L GWQS during the July 2006 monitoring event.

MADEP VPH/EPH

During the July 2006 monitoring event the C_9-C_{22} Aromatics Hydrocarbon Fraction was detected in samples USTAS843-MW03 and USTAS843-MW04 at concentrations of 320 ug/L and 330 ug/L, respectively. Each of these concentrations exceed the 2L GWQS of 210 ug/L for this compound. All other MADEP VPH/EPH compounds were either report as BQL or detected at concentrations below the 2L GWQS.

6.6 Potential Receptors

6.6.1 Contaminated Water Supply Well(s)?: None
6.6.2 Potable Water Supply Well Within 1,000 Feet of Source Area?: No
6.6.3 Any Water Supply Well Within 250 Feet of Source Area?: No
6.6.4 Surface Water Body Within 500 Feet?: No
6.6.5 Past Evidence of Vapors?: No
6.6.6 Significant Changes from Previously Reported Data?: No

6.7 Remediation

6.7.1 Status: On-going (Natural Attenuation)
6.7.2 Type: Excavation, Free Product Recovery (via Hand Bailing) and Natural Attenuation
6.7.3 Progress: Excavation and Free Product Recovery complete, Natural Attenuation on-going.
6.7.4 Construction Contractor: Excavation completed by Environmental and Regulatory Consultants, Free Product Recovery completed by EEI.
6.7.5 Operating Contractor: Sovereign

6.8 Observations and Comments

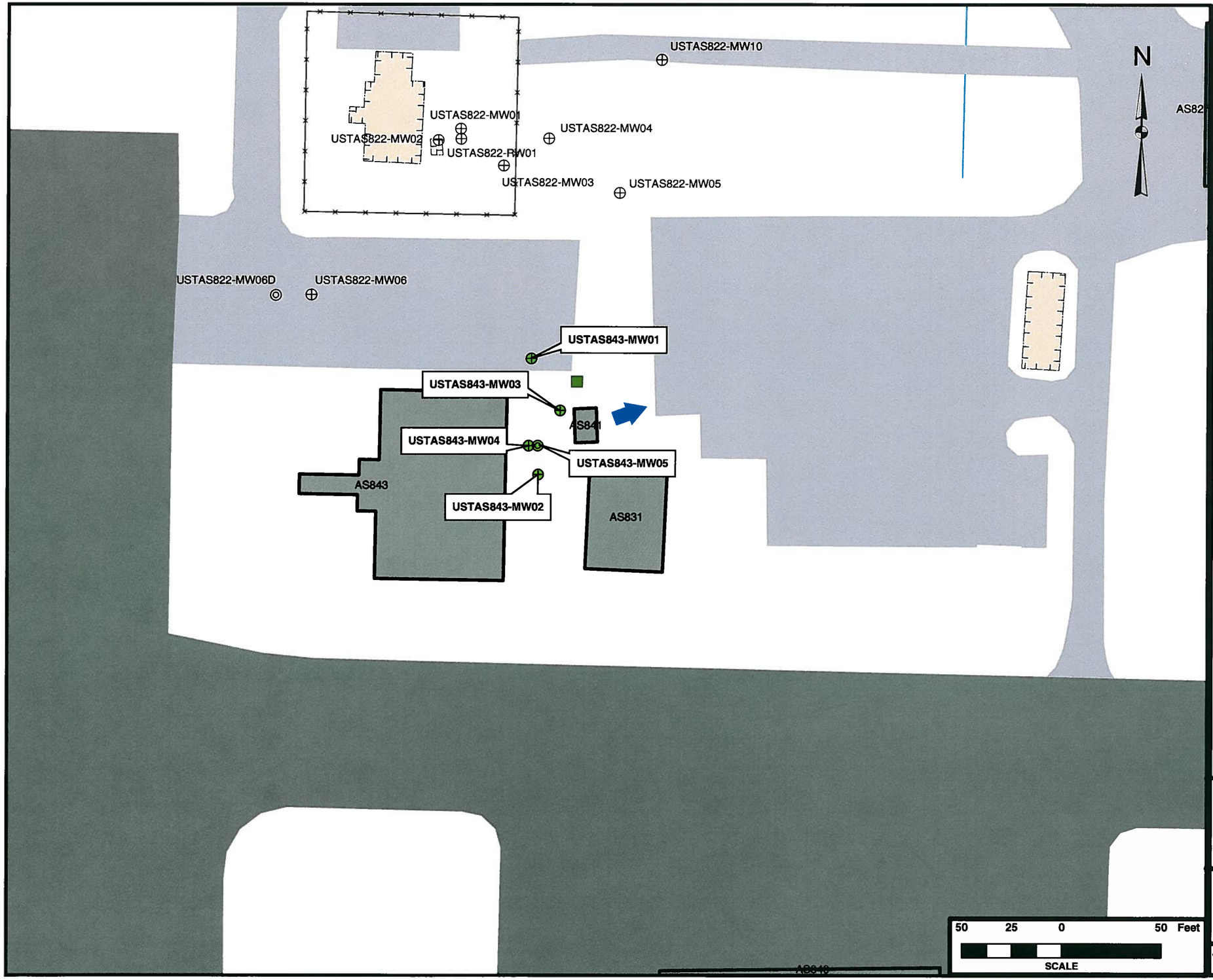
The NCDENR indicated this incident qualified for NFA with LURs in correspondence dated July 2007. However, as the contaminant concentrations from the July 2006 monitoring event were only slightly above the 2L GWQSs; CATLIN recommends continuing with the current monitoring schedule. Therefore, as the site was sampled in July 2006, the next sampling event should be conducted in July 2008. See the figure in Appendix A for the proposed monitoring event.

To CATLIN's knowledge the source of contamination at the subject site was diesel fuel. According to the "Guidelines for Assessment and Corrective Action" effective July 1, 2001, diesel contaminated sites require groundwater sampling per EPA Method 602, EPA Method 625 + TICs, and MADEP VPH/EPH. Therefore, CATLIN recommends that the analytical methods be modified for the July 2008 monitoring event to reflect the guidelines.

TABLE 6.1
SITE AS-843
FIELD MEASUREMENTS - JULY 2005 TO DECEMBER 2007

Well No.	Type	TOC	Date	DTW	Product Thickness	Corrected GWT Elevation
USTAS843-MW01	T-II	12.72	10/12/2005	5.10	0.00	7.62
USTAS843-MW01	T-II	12.72	1/18/2006	4.93	0.00	7.79
USTAS843-MW01	T-II	12.72	4/3/2006	6.00	0.00	6.72
USTAS843-MW01	T-II	12.72	7/5/2006	4.25	0.00	8.47
USTAS843-MW01	T-II	12.72	1/4/2007	3.70	0.00	9.02
USTAS843-MW02	T-II	13.20	10/12/2005	4.61	0.00	8.59
USTAS843-MW02	T-II	13.20	1/18/2006	4.13	0.00	9.07
USTAS843-MW02	T-II	13.20	4/3/2006	4.63	0.00	8.57
USTAS843-MW02	T-II	13.20	7/5/2006	4.10	0.00	9.10
USTAS843-MW02	T-II	13.20	1/4/2007	3.90	0.00	9.30
USTAS843-MW03	T-II	13.22	10/12/2005	4.87	0.00	8.35
USTAS843-MW03	T-II	13.22	1/18/2006	4.83	0.00	8.39
USTAS843-MW03	T-II	13.22	4/3/2006	5.39	0.00	7.83
USTAS843-MW03	T-II	13.22	7/5/2006	4.01	0.00	9.21
USTAS843-MW03	T-II	13.22	1/4/2007	4.21	0.00	9.01
USTAS843-MW04	T-II	13.03	10/12/2005	2.15	0.00	10.88
USTAS843-MW04	T-II	13.03	1/18/2006	2.35	0.00	10.68
USTAS843-MW04	T-II	13.03	4/3/2006	4.21	0.00	8.82
USTAS843-MW04	T-II	13.03	7/5/2006	1.98	0.00	11.05
USTAS843-MW04	T-II	13.03	1/4/2007	1.80	0.00	11.23
USTAS843-MW05	T-III	12.95	10/12/2005	5.22	0.00	7.73
USTAS843-MW05	T-III	12.95	1/18/2006	5.22	0.00	7.73
USTAS843-MW05	T-III	12.95	4/3/2006	5.68	0.00	7.27
USTAS843-MW05	T-III	12.95	7/5/2006	5.11	0.00	7.84
USTAS843-MW05	T-III	12.95	1/4/2007	4.70	0.00	8.25

Notes:
1. T-II = Type II monitoring well
   T-III = Type III monitoring well
   RW = Recovery well
2. TOC = Top of casing elevation in feet relative to Mean Sea Level.
3. DTW = Depth to water (in feet) from top of well casing.
4. Product thickness is measured in feet.
5. GWT = Groundwater Table
6. A zero ("0.00") in the product thickness column indicates no measureable thickness.
7. GWT Elevation corrected for measurable free product, if present.



MCB CAMP LEJEUNE
UST MANAGEMENT PROGRAM
CALENDAR YEAR 2007

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LEGEND

Monitoring Wells
- Type I
- Type II
- Type III
- Pumping Well
- Unknown Well Type
- Water Supply Wells
- Above Ground Storage Tank
- Underground Storage Tank
- Railroad Tracks

Walls and Fences
- FENCE
- GATE
- WALL

Free Product
- Free Product Detected
- No Measurable Product
- Free Product Plume
- Buildings and Structures
- Demolished Structures
- Oil/Water Separators
- Slabs
- Roads
- Driveways
- Parking Lots
- Surface Water Bodies
- Creeks and Streams
- Historical Groundwater Flow Direction

Vegetation Cover
- Forestland
- Scrubland
- Wetland

Airfield Pavement
- HELIPAD
- RAMP
- RUNWAY
- SHLDR_OVERRUN
- TAXIWAY

NOTES

1. Free product was not detected at this site in any of the wells gauged during this monitoring event.

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SITE AS-843
FREE PRODUCT PLUME MAP
FIRST QUARTER 2007

FIGURE **6.1**

Job No.:	Date:	Scale:	Drawn By:	Checked By:
207-002	DEC 2007	AS SHOWN	SAC	MEM

SECTION 7.0

OF THE

ANNUAL MANAGEMENT REPORT
MCB CAMP LEJEUNE UST MANAGEMENT PROGRAM

MONITORING EVENT:

YEAR 2007
(JANUARY – DECEMBER 2007)

SITE-SPECIFIC MONITORING REPORT
FOR

SITE AS-4141 (Formerly JP-5 Pump and Treat)

NCDENR INCIDENT NO. 3218

7.0 EXECUTIVE SUMMARY
SITE AS-4141 (Formerly JP-5 Pump and Treat)

7.1 Site Information

7.1.1 Site Location: MCAS New River
7.1.2 Incident Number(s): 3218
7.1.3 UTM Coordinates (WGS84) (Meters): 275544.52 Easting, 3844298.53 Northing
7.1.4 Risk Classification: Intermediate
7.1.5 Land Use Classification: Industrial/Commercial
1.1.6 Source Type(s): JP-5

7.2 Monitoring Event Information

7.2.1 Sampling Performed By: Shaw
7.2.2 Date(s) of This Monitoring Event: October 2006, March 2007 and October 2007
7.2.3 Date(s) of Previous Monitoring Event: Gauging on 11/30/2005 and sampling on 12/22/05
7.2.4 Reason(s) for This Monitoring Event: Track free-product thickness and extent, Track dissolved-phase plume extent.
7.2.5 Site Monitoring Status at Time of This Event: Semi-annual sampling of approximately 12 monitoring wells per EPA Methods 602, 625 and 6010B.

7.3 Groundwater Hydraulics

7.3.1 Hydraulic Conductivity: 7.4 gpd/ft^2
7.3.2 Effective Porosity: 0.40
7.3.3 Hydraulic Gradient: 0.02 feet/feet
7.3.4 Average Linear Groundwater Flow Velocity: 18 ft/yr
7.3.5 Groundwater Flow Direction: Southeast
7.3.6 Range of Measured Water Table Elevations: See Table 7.1
7.3.7 Significant Changes from Previously Reported Data: None

Free Product Plume

7.3.8 Free Product Present?: Yes.
7.3.9 Free Product Thickness Measured: See Tables 7.1.
7.3.10 Plume Size and Location: See Figures 7.1A through 7.1C
7.3.11 Free Product Removed from Site This Period: Unknown
7.3.12 Significant Changes from Previously Reported Data: Free product was previously detected in monitoring well USTAS4141-MW16, however during the March 2007 and October 2007 gauging events no measurable free product was detected in this monitoring well. See Figures 7.1A through 7.1C

7.4 Dissolved-Phase Plume

7.4.1 Plume Concentrations: See Tables 7.2 through 7.4
7.4.2 Plume Size and Location: See Figures 7.2A through 7.4C
7.4.3 Significant Changes from Previously Reported Data: The current groundwater sample analytical results compared to the analytical results from the December 2005 sampling event are discussed as follows:

EPA Method 602

Please note, during the December 2005 sampling event EPA Method 8260 analysis was conducted in lieu of EPA Method 602 analysis. However, during the December 2005 sampling event, no EPA Method 8260 compounds were detected above the corresponding 2L GWQSs. Monitoring well USTAS4141-MW16 contained measurable free product during the fourth quarter of 2005, however the December 2007 analytical data from this monitoring well revealed no EPA Method 602 contaminants at concentrations in excess of the 2L GWQSs. See Figures 7.2A through 7.2C.

EPA Method 625

Please note, during the December 2005 sampling event EPA Method 8270 analysis was conducted in lieu of EPA Method 625 analysis. During the December 2005 sampling event, 1-Methylnaphthalene and 2-Methylnaphthalene were detected in the USTAS4141-MW15 groundwater sample above the corresponding 2L GWQSs. Groundwater samples from this monitoring well revealed no EPA Method 625 compounds in excess of the 2L GWQSs during any of the three sampling events conducted during the current monitoring period. See Figures 7.3A through 7.3C.

EPA Method 6010B

During the December 2005 sampling event, Lead was detected above the 2L GWQS in the USTAS4141-MW02 and USTAS4141-MW15 groundwater samples. Groundwater samples from this monitoring well revealed no EPA Method 6010B compounds in excess of the 2L GWQSs during any of the three sampling events conducted during the current monitoring period. See Figures 7.4A through 7.4C.

7.5 Potential Receptors

7.5.1 Contaminated Water Supply Well(s)?: None
7.5.2 Potable Water Supply Well Within 1,000 Feet of Source Area?: No
7.5.3 Any Water Supply Well Within 250 Feet of Source Area?: No
7.5.4 Surface Water Body Within 500 Feet?: No
7.5.5 Past Evidence of Vapors?: No
7.5.6 Significant Changes from Previously Reported Data?: None

7.6 Remediation

7.6.1 Status: Pump and Treat system inactive, AFVR events conducted as needed.
7.6.2 Type: Pump and treat and AFVR.
7.6.3 Progress: Pump and treat system shut down in July 2000. A dual-phase extraction system was recommended in an RAO and RCAPA Report and is in the process of implementation (See below).
7.6.4 Construction Contractor: Specialized Marine and O'Brien & Gere Engineers
7.6.5 Operating Contractor: Shaw

7.7 Observations and Comments

The design package for the use of a skid-mounted, dual phase recovery system is currently being developed by CATLIN. Once this design package is finalized, the system will be installed.

CATLIN recommends continuing the current monitoring schedule of semi-annual groundwater sampling of approximately 12 on-site monitoring wells. If the source of contamination is JP-5 only, MCB Camp Lejeune should consider modifying the sample analysis to EPA Method 602, 625 and MADEP VPH/EPH per the UST guidelines. See the figure in Appendix A for the proposed monitoring schedule.

TABLE 7.1
SITE AS-4141
FIELD MEASUREMENTS - JULY 2005 TO DECEMBER 2007

Well No.	Type	TOC	Date	DTW	Product Thickness	Corrected GWT Elevation
USTAS4141-MW02	T-II	23.47	10/20/2006	6.50	0.00	16.97
USTAS4141-MW02	T-II	23.47	3/13/2007	6.80	0.00	16.67
USTAS4141-MW02	T-II	23.47	10/26/2007	3.94	0.00	19.53
USTAS4141-MW07	T-II	21.60	3/13/2007	3.10	0.00	18.50
USTAS4141-MW07	T-II	21.60	3/14/2007	3.10	0.00	18.50
USTAS4141-MW07	T-II	21.60	10/27/2007	3.82	0.00	17.78
USTAS4141-MW08	T-II	25.61	3/13/2007	10.93	0.00	14.68
USTAS4141-MW10	T-II	21.56	3/13/2007	4.67	0.00	16.89
USTAS4141-MW10	T-II	21.56	3/14/2007	4.67	0.00	16.89
USTAS4141-MW10	T-II	21.56	10/27/2007	5.59	0.00	15.97
USTAS4141-MW13	T-II	18.87	3/13/2007	5.12	0.00	13.75
USTAS4141-MW14	T-III	19.56	11/30/2005	5.62	0.00	13.94
USTAS4141-MW14	T-III	19.56	10/19/2006	5.70	0.00	13.86
USTAS4141-MW14	T-III	19.56	3/13/2007	5.70	0.00	13.86
USTAS4141-MW14	T-III	19.56	3/16/2007	5.70	0.00	13.86
USTAS4141-MW14	T-III	19.56	10/26/2007	7.22	0.00	12.34
USTAS4141-MW15	T-II	18.11	11/30/2005	1.27	0.00	16.84
USTAS4141-MW15	T-II	18.11	10/20/2006	10.50	0.00	7.61
USTAS4141-MW15	T-II	18.11	3/13/2007	2.20	0.00	15.91
USTAS4141-MW15	T-II	18.11	10/25/2007	3.96	0.00	14.15
USTAS4141-MW16	T-II	21.29	3/13/2007	6.35	0.00	14.94
USTAS4141-MW16	T-II	21.29	10/25/2007	9.38	0.00	11.91
USTAS4141-MW17	T-II	19.77	10/23/2006	5.80	0.00	13.97

Notes:
1. T-II = Type II monitoring well
   T-III = Type III monitoring well
   RW = Recovery well
2. TOC = Top of casing elevation in feet relative to Mean Sea Level.
3. DTW = Depth to water (in feet) from top of well casing.
4. Product thickness is measured in feet.
5. GWT = Groundwater Table
6. A zero ("0.00") in the product thickness column indicates no measureable thickness.
7. GWT Elevation corrected for measurable free product, if present.

Well No.	Type	TOC	Date	DTW	Product Thickness	Corrected GWT Elevation
USTAS4141-MW17	T-II	19.77	3/13/2007	5.82	0.00	13.95
USTAS4141-MW17	T-II	19.77	3/16/2007	5.82	0.00	13.95
USTAS4141-MW17	T-II	19.77	10/26/2007	7.38	0.14	12.50
USTAS4141-MW18	T-II	21.15	3/13/2007	6.70	0.00	14.45
USTAS4141-MW18	T-II	21.15	3/14/2007	6.70	0.00	14.45
USTAS4141-MW18	T-II	21.15	10/25/2007	7.42	0.00	13.73
USTAS4141-MW19	T-II	20.45	10/23/2006	6.10	0.00	14.35
USTAS4141-MW19	T-II	20.45	3/13/2007	5.82	0.00	14.63
USTAS4141-MW19	T-II	20.45	3/16/2007	5.82	0.00	14.63
USTAS4141-MW19	T-II	20.45	10/26/2007	8.07	0.00	12.38
USTAS4141-MW20	T-II	19.58	10/23/2006	5.90	0.00	13.68
USTAS4141-MW20	T-II	19.58	3/13/2007	7.45	1.74	13.56
USTAS4141-MW21	T-II	19.59	10/23/2006	7.40	0.00	12.19
USTAS4141-MW21	T-II	19.59	3/13/2007	7.74	2.04	13.52
USTAS4141-OBG02	T-II	23.84	3/13/2007	5.69	0.00	18.15
USTAS4141-OBG03R	T-II	20.63	11/30/2005	8.15	1.78	13.94
USTAS4141-OBG03R	T-II	20.63	10/19/2006	7.22	0.00	13.41
USTAS4141-OBG03R	T-II	20.63	3/13/2007	7.10	0.64	14.05
USTAS4141-OBG03R	T-II	20.63	10/26/2007	8.08	0.27	12.77
USTAS4141-OBG04	T-II	20.27	3/13/2007	6.35	0.00	13.92
USTAS4141-OBG05	T-II	19.54	3/13/2007	5.13	0.00	14.41
USTAS4141-OBG06	T-II	20.88	11/30/2005	3.83	0.00	17.05
USTAS4141-OBG06	T-II	20.88	10/19/2006	5.70	0.00	15.18
USTAS4141-OBG06	T-II	20.88	3/13/2007	5.21	0.00	15.67
USTAS4141-OBG06	T-II	20.88	3/16/2007	5.13	0.00	15.75
USTAS4141-OBG06	T-II	20.88	10/25/2007	6.50	0.00	14.38
USTAS4141-RW01	RW	18.70	11/30/2005	4.99	0.10	13.79
USTAS4141-RW01	RW	18.70	10/19/2006	5.29	0.10	13.49

Notes:
1. T-II = Type II monitoring well
   T-III = Type III monitoring well
   RW = Recovery well
2. TOC = Top of casing elevation in feet relative to Mean Sea Level.
3. DTW = Depth to water (in feet) from top of well casing.
4. Product thickness is measured in feet.
5. GWT = Groundwater Table
6. A zero ("0.00") in the product thickness column indicates no measureable thickness.
7. GWT Elevation corrected for measurable free product, if present.

Well No.	Type	TOC	Date	DTW	Product Thickness	Corrected GWT Elevation
USTAS4141-RW01	RW	18.70	3/13/2007	8.62	0.25	10.29
USTAS4141-RW01	RW	18.70	10/27/2007	6.70	0.35	12.29
USTAS4141-RW02	RW	21.00	3/13/2007	5.38	0.25	15.83
USTAS4141-TPZ01	T-II	20.40	10/19/2006	6.71	0.26	13.90
USTAS4141-TPZ01	T-II	20.40	3/13/2007	6.68	0.26	13.93
USTAS4141-TPZ02	T-II	20.24	10/19/2006	6.35	0.00	13.89
USTAS4141-TPZ02	T-II	20.24	3/13/2007	5.79	0.00	14.45
USTAS4141-TPZ03	T-II	20.36	10/19/2006	7.29	1.05	13.93
USTAS4141-TPZ03	T-II	20.36	3/13/2007	9.58	3.81	13.90
USTAS4141-TPZ04	T-II	20.17	10/19/2006	5.91	0.41	14.60
USTAS4141-TPZ04	T-II	20.17	3/13/2007	6.48	0.33	13.96
USTAS4141-TPZ05	T-II	20.26	10/19/2006	7.75	1.45	13.70
USTAS4141-TPZ05	T-II	20.26	3/13/2007	7.66	2.45	14.61

Notes:
1. T-II = Type II monitoring well
   T-III = Type III monitoring well
   RW = Recovery well
2. TOC = Top of casing elevation in feet relative to Mean Sea Level.
3. DTW = Depth to water (in feet) from top of well casing.
4. Product thickness is measured in feet.
5. GWT = Groundwater Table
6. A zero ("0.00") in the product thickness column indicates no measureable thickness.
7. GWT Elevation corrected for measurable free product, if present.

TABLE 7.2

SITE AS-4141

GROUNDWATER LABORATORY ANALYTICAL RESULTS - JULY 2005 TO DECEMBER 2007

EPA METHOD 602

Contaminant of Concern →		1,2-Dichlorobenzene	1,3-Dichlorobenzene	Dichlorobenzene-1,4	Benzene	Ethylbenzene	Methyl Tert Butyl Ether	Toluene	Total Xylenes	Xylenes (total)
Well ID	Date									
2L GWQS		24	170	1.4	1	550	200	1000	530	530
GCL		72500	61500	39500	5000	550000	200000	257500	87500	87500
USTAS4141-MW02	10/20/2006	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
USTAS4141-MW02	3/13/2007	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
USTAS4141-MW02	10/30/2007	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
USTAS4141-MW07	3/14/2007	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
USTAS4141-MW07	10/27/2007	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
USTAS4141-MW14	10/19/2006	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
USTAS4141-MW14	3/16/2007	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
USTAS4141-MW14	10/30/2007	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL

Notes:
1. 2L GWQS = North Carolina groundwater quality standard 15A NCAC 2L .0202
2. GCL = Gross Contamination Levels for ground water as defined in "Guidelines for Assessment and Corrective Action" North Carolina Underground Storage Tank Section, effective July 1, 2001
3. All units are in ug/L (Micrograms per Liter)
4. BQL = Below Quantitaion Limits
5. A zero in the 2L GWQS row indicates the 2L Standard is equal to the laboratory detection limit
6. A zero in the GCL row indicates a GCL has not been established
7. Shaded concentrations indicate exceedance of the 2L GWQS
8. Only compounds which were detected are shown on table. All other compounds were BQL
9. Please note, compounds reported in duplicate columns are the result of multiple laboratories submitting EDD data with different nomenclature. Unless BQL appears in both duplicate columns, a detection is present and that concentration is reported numerically.

TABLE 7.2

SITE AS-4141

GROUNDWATER LABORATORY ANALYTICAL RESULTS - JULY 2005 TO DECEMBER 2007

EPA METHOD 602

Contaminant of Concern →		1,2-Dichlorobenzene	1,3-Dichlorobenzene	Dichlorobenzene-1,4	Benzene	Ethylbenzene	Methyl Tert Butyl Ether	Toluene	Total Xylenes	Xylenes (total)
Well ID	Date									
2L GWQS		24	170	1.4	1	550	200	1000	530	530
GCL		72500	61500	39500	5000	550000	200000	257500	87500	87500
USTAS4141-MW15	10/20/2006	2.60	BQL	BQL	BQL	BQL	0.55	BQL	BQL	BQL
USTAS4141-MW15	3/13/2007	5.90	BQL	BQL	BQL	BQL	0.52	BQL	BQL	BQL
USTAS4141-MW15	10/25/2007	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
USTAS4141-MW16	3/13/2007	42.60	BQL	9.10	0.57	3.30	BQL	BQL	2.20	BQL
USTAS4141-MW16	10/25/2007	BQL	BQL	BQL	BQL	10.60	BQL	BQL	BQL	16.00
USTAS4141-MW17	10/23/2006	60.60	21.30	20.60	5.70	31.40	BQL	0.68	50.50	BQL
USTAS4141-MW17	3/16/2007	57.00	BQL	BQL	6.00	16.70	BQL	BQL	21.00	BQL
USTAS4141-MW18	3/14/2007	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
USTAS4141-MW18	10/25/2007	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL

Notes:
1. 2L GWQS = North Carolina groundwater quality standard 15A NCAC 2L .0202
2. GCL = Gross Contamination Levels for ground water as defined in "Guidelines for Assessment and Corrective Action" North Carolina Underground Storage Tank Section, effective July 1, 2001
3. All units are in ug/L (Micrograms per Liter)
4. BQL = Below Quantitaion Limits
5. A zero in the 2L GWQS row indicates the 2L Standard is equal to the laboratory detection limit
6. A zero in the GCL row indicates a GCL has not been established
7. Shaded concentrations indicate exceedance of the 2L GWQS
8. Only compounds which were detected are shown on table. All other compounds were BQL
9. Please note, compounds reported in duplicate columns are the result of multiple laboratories submitting EDD data with different nomenclature. Unless BQL appears in both duplicate columns, a detection is present and that concentration is reported numerically.

TABLE 7.2

SITE AS-4141

GROUNDWATER LABORATORY ANALYTICAL RESULTS - JULY 2005 TO DECEMBER 2007

EPA METHOD 602

Contaminant of Concern →		1,2-Dichlorobenzene	1,3-Dichlorobenzene	Dichlorobenzene-1,4	Benzene	Ethylbenzene	Methyl Tert Butyl Ether	Toluene	Total Xylenes	Xylenes (total)
Well ID	**Date**									
2L GWQS		24	170	1.4	1	550	200	1000	530	530
GCL		72500	61500	39500	5000	550000	200000	257500	87500	87500
USTAS4141-MW19	10/23/2006	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
USTAS4141-MW19	3/16/2007	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
USTAS4141-MW19	10/30/2007	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
USTAS4141-OBG03R	10/19/2006	BQL	BQL	BQL	0.70	14.30	BQL	BQL	63.00	BQL
USTAS4141-OBG06	10/19/2006	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
USTAS4141-OBG06	3/16/2007	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
USTAS4141-OBG06	10/25/2007	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL

Notes:
1. 2L GWQS = North Carolina groundwater quality standard 15A NCAC 2L .0202
2. GCL = Gross Contamination Levels for ground water as defined in "Guidelines for Assessment and Corrective Action" North Carolina Underground Storage Tank Section, effective July 1, 2001
3. All units are in ug/L (Micrograms per Liter)
4. BQL = Below Quantitaion Limits
5. A zero in the 2L GWQS row indicates the 2L Standard is equal to the laboratory detection limit
6. A zero in the GCL row indicates a GCL has not been established
7. Shaded concentrations indicate exceedance of the 2L GWQS
8. Only compounds which were detected are shown on table. All other compounds were BQL
9. Please note, compounds reported in duplicate columns are the result of multiple laboratories submitting EDD data with different nomenclature. Unless BQL appears in both duplicate columns, a detection is present and that concentration is reported numerically.

TABLE 7.3

SITE AS-4141

GROUNDWATER LABORATORY ANALYTICAL RESULTS - JULY 2005 TO DECEMBER 2007

EPA METHOD 625

Contaminant of Concern →		1-Methylnaphthalene	2-Methylnaphthalene	Fluorene	Naphthalene
Well ID	Date				
2L GWQS		14	14	280	21
GCL		12500	12500	950	15500
USTAS4141-MW02	10/20/2006	BQL	BQL	BQL	BQL
USTAS4141-MW02	3/13/2007	BQL	BQL	BQL	BQL
USTAS4141-MW02	10/30/2007	BQL	BQL	BQL	BQL
USTAS4141-MW07	3/14/2007	BQL	BQL	BQL	BQL
USTAS4141-MW07	10/27/2007	BQL	BQL	BQL	BQL
USTAS4141-MW14	10/19/2006	1.90	1.80	BQL	BQL
USTAS4141-MW14	3/16/2007	BQL	BQL	BQL	BQL
USTAS4141-MW14	10/30/2007	BQL	BQL	BQL	BQL
USTAS4141-MW15	10/20/2006	BQL	2.20	BQL	1.10
USTAS4141-MW15	3/13/2007	1.40	1.60	BQL	BQL
USTAS4141-MW15	10/25/2007	4.20	4.30	BQL	BQL

Notes:
1. 2L GWQS = North Carolina groundwater quality standard 15A NCAC 2L .0202
2. GCL = Gross Contamination Levels for ground water as defined in "Guidelines for Assessment and Corrective Action" North Carolina Underground Storage Tank Section, effective July 1, 2001
3. All units are in ug/L (Micrograms per Liter)
4. BQL = Below Quantitaion Limits
5. A zero in the 2L GWQS row indicates the 2L Standard is equal to the laboratory detection limit
6. A zero in the GCL row indicates a GCL has not been established
7. Shaded concentrations indicate exceedance of the 2L GWQS
8. Only compounds which were detected are shown on table. All other compounds were BQL

TABLE 7.3

SITE AS-4141

GROUNDWATER LABORATORY ANALYTICAL RESULTS - JULY 2005 TO DECEMBER 2007

EPA METHOD 625

Contaminant of Concern →		1-Methylnaphthalene	2-Methylnaphthalene	Fluorene	Naphthalene
Well ID	Date				
2L GWQS		14	14	280	21
GCL		12500	12500	950	15500
USTAS4141-MW16	3/13/2007	62.00	55.00	BQL	68.40
USTAS4141-MW16	10/25/2007	78.90	76.60	BQL	83.60
USTAS4141-MW17	10/23/2006	466.00	589.00	BQL	461.00
USTAS4141-MW17	3/16/2007	120.00	87.60	BQL	257.00
USTAS4141-MW18	3/14/2007	BQL	BQL	BQL	BQL
USTAS4141-MW18	10/25/2007	BQL	BQL	BQL	BQL
USTAS4141-MW19	10/23/2006	BQL	BQL	BQL	BQL
USTAS4141-MW19	3/16/2007	BQL	BQL	BQL	BQL
USTAS4141-MW19	10/30/2007	BQL	BQL	BQL	BQL
USTAS4141-OBG03R	10/19/2006	150.00	155.00	1.10	239.00

Notes:
1. 2L GWQS = North Carolina groundwater quality standard 15A NCAC 2L .0202
2. GCL = Gross Contamination Levels for ground water as defined in "Guidelines for Assessment and Corrective Action" North Carolina Underground Storage Tank Section, effective July 1, 2001
3. All units are in ug/L (Micrograms per Liter)
4. BQL = Below Quantitaion Limits
5. A zero in the 2L GWQS row indicates the 2L Standard is equal to the laboratory detection limit
6. A zero in the GCL row indicates a GCL has not been established
7. Shaded concentrations indicate exceedance of the 2L GWQS
8. Only compounds which were detected are shown on table. All other compounds were BQL

TABLE 7.3

SITE AS-4141

GROUNDWATER LABORATORY ANALYTICAL RESULTS - JULY 2005 TO DECEMBER 2007

EPA METHOD 625

Contaminant of Concern →		1-Methylnaphthalene	2-Methylnaphthalene	Fluorene	Naphthalene
Well ID	Date				
2L GWQS		14	14	280	21
GCL		12500	12500	950	15500
USTAS4141-OBG06	10/19/2006	BQL	BQL	BQL	BQL
USTAS4141-OBG06	3/16/2007	BQL	BQL	BQL	BQL
USTAS4141-OBG06	10/25/2007	BQL	BQL	BQL	BQL

Notes:
1. 2L GWQS = North Carolina groundwater quality standard 15A NCAC 2L .0202
2. GCL = Gross Contamination Levels for ground water as defined in "Guidelines for Assessment and Corrective Action" North Carolina Underground Storage Tank Section, effective July 1, 2001
3. All units are in ug/L (Micrograms per Liter)
4. BQL = Below Quantitaion Limits
5. A zero in the 2L GWQS row indicates the 2L Standard is equal to the laboratory detection limit
6. A zero in the GCL row indicates a GCL has not been established
7. Shaded concentrations indicate exceedance of the 2L GWQS
8. Only compounds which were detected are shown on table. All other compounds were BQL

TABLE 7.4

SITE AS-4141

GROUNDWATER LABORATORY ANALYTICAL RESULTS - JULY 2005 TO DECEMBER 2007

EPA METHOD 6010B

Contaminant of Concern →		
Well ID	**Date**	Lead
2L GWQS		15
GCL		15000
USTAS4141-MW02	12/22/2005	105.00
USTAS4141-MW02	10/20/2006	2.40
USTAS4141-MW02	3/13/2007	BQL
USTAS4141-MW02	10/30/2007	BQL
USTAS4141-MW07	3/14/2007	BQL
USTAS4141-MW07	10/27/2007	BQL
USTAS4141-MW14	12/22/2005	5.80
USTAS4141-MW14	10/19/2006	BQL
USTAS4141-MW14	3/16/2007	BQL
USTAS4141-MW14	10/30/2007	BQL

Notes:
1. 2L GWQS = North Carolina groundwater quality standard 15A NCAC 2L .0202
2. GCL = Gross Contamination Levels for ground water as defined in "Guidelines for Assessment and Corrective Action" North Carolina Underground Storage Tank Section, effective July 1, 2001
3. All units are in ug/L (Micrograms per Liter)
4. BQL = Below Quantitaion Limits
5. A zero in the 2L GWQS row indicates the 2L Standard is equal to the laboratory detection limit
6. A zero in the GCL row indicates a GCL has not been established
7. Shaded concentrations indicate exceedance of the 2L GWQS
8. Only compounds which were detected are shown on table. All other compounds were BQL

TABLE 7.4

SITE AS-4141

GROUNDWATER LABORATORY ANALYTICAL RESULTS - JULY 2005 TO DECEMBER 2007

EPA METHOD 6010B

Contaminant of Concern →		
Well ID	**Date**	Lead
2L GWQS		15
GCL		15000
USTAS4141-MW15	12/22/2005	19.90
USTAS4141-MW15	10/20/2006	BQL
USTAS4141-MW15	3/13/2007	BQL
USTAS4141-MW15	10/25/2007	BQL
USTAS4141-MW16	3/13/2007	BQL
USTAS4141-MW16	10/25/2007	BQL
USTAS4141-MW17	10/23/2006	3.20
USTAS4141-MW17	3/16/2007	BQL
USTAS4141-MW18	3/14/2007	BQL
USTAS4141-MW18	10/25/2007	BQL

Notes:
1. 2L GWQS = North Carolina groundwater quality standard 15A NCAC 2L .0202
2. GCL = Gross Contamination Levels for ground water as defined in "Guidelines for Assessment and Corrective Action" North Carolina Underground Storage Tank Section, effective July 1, 2001
3. All units are in ug/L (Micrograms per Liter)
4. BQL = Below Quantitaion Limits
5. A zero in the 2L GWQS row indicates the 2L Standard is equal to the laboratory detection limit
6. A zero in the GCL row indicates a GCL has not been established
7. Shaded concentrations indicate exceedance of the 2L GWQS
8. Only compounds which were detected are shown on table. All other compounds were BQL

TABLE 7.4

SITE AS-4141

GROUNDWATER LABORATORY ANALYTICAL RESULTS - JULY 2005 TO DECEMBER 2007

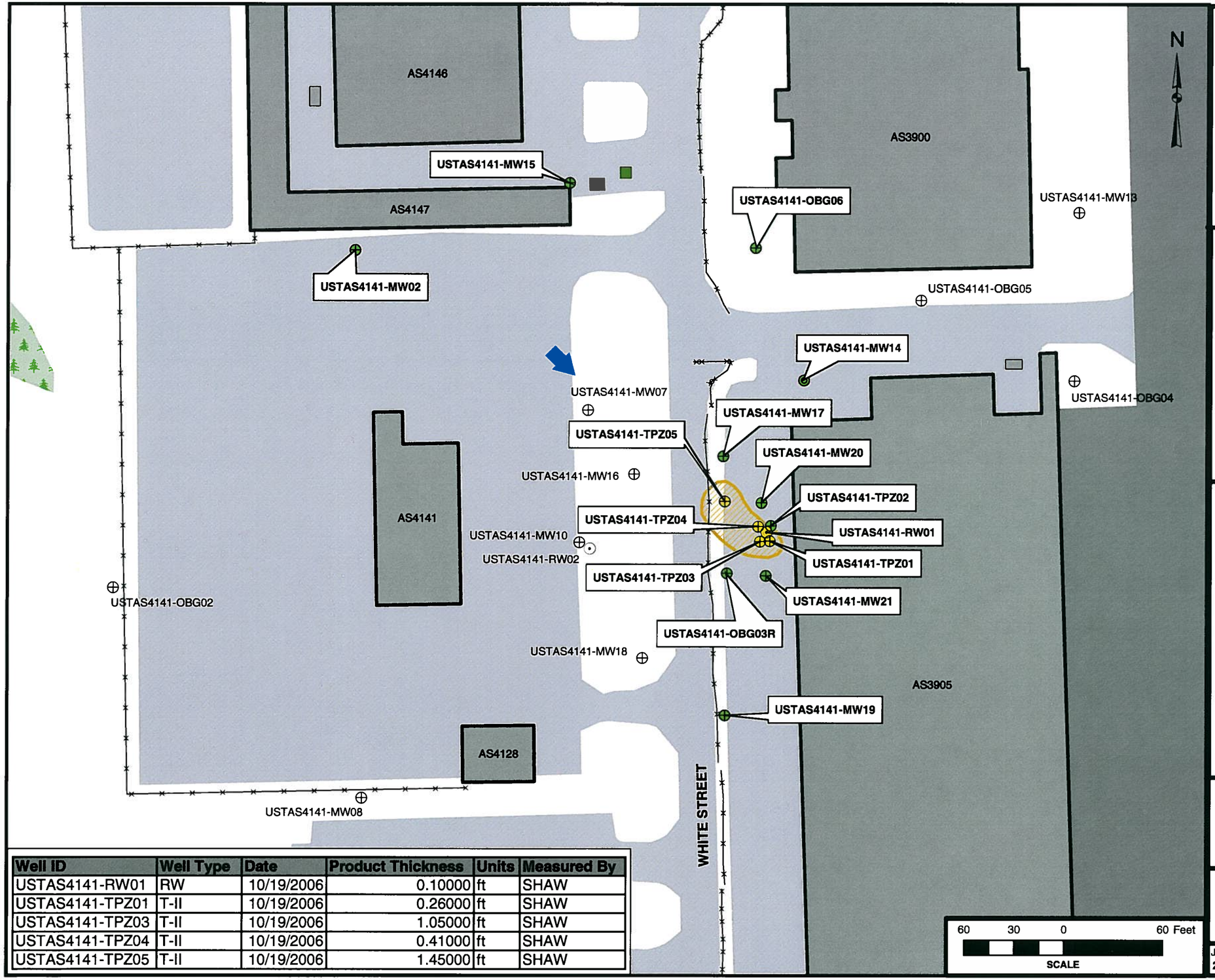
EPA METHOD 6010B

Contaminant of Concern →		
Well ID	**Date**	Lead
2L GWQS		15
GCL		15000
USTAS4141-MW19	10/23/2006	**43.80**
USTAS4141-MW19	3/16/2007	BQL
USTAS4141-MW19	10/30/2007	BQL
USTAS4141-OBG03R	10/19/2006	BQL
USTAS4141-OBG06	12/22/2005	14.30
USTAS4141-OBG06	10/19/2006	5.70
USTAS4141-OBG06	3/16/2007	BQL
USTAS4141-OBG06	10/25/2007	BQL
USTAS4141-RW2	12/22/2005	2.30

Notes:
1. 2L GWQS = North Carolina groundwater quality standard 15A NCAC 2L .0202
2. GCL = Gross Contamination Levels for ground water as defined in "Guidelines for Assessment and Corrective Action" North Carolina Underground Storage Tank Section, effective July 1, 2001
3. All units are in ug/L (Micrograms per Liter)
4. BQL = Below Quantitaion Limits
5. A zero in the 2L GWQS row indicates the 2L Standard is equal to the laboratory detection limit
6. A zero in the GCL row indicates a GCL has not been established
7. Shaded concentrations indicate exceedance of the 2L GWQS
8. Only compounds which were detected are shown on table. All other compounds were BQL

MCB CAMP LEJEUNE
UST MANAGEMENT PROGRAM
CALENDAR YEAR 2007

NAVFAC
Naval Facilities Engineering Command



LEGEND

Monitoring Wells
- Type I
- Type II
- Type III
- Pumping Well
- Unknown Well Type
- Water Supply Wells
- Above Ground Storage Tank
- Underground Storage Tank
- Railroad Tracks

Walls and Fences
- FENCE
- GATE
- WALL

Free Product
- Free Product Detected
- No Measurable Product
- Free Product Plume
- Buildings and Structures
- Demolished Structures
- Oil/Water Separators
- Slabs
- Roads
- Driveways
- Parking Lots
- Surface Water Bodies
- Creeks and Streams
- Historical Groundwater Flow Direction

Vegetation Cover
- Forestland
- Scrubland
- Wetland

Airfield Pavement
- HELIPAD
- RAMP
- RUNWAY
- SHLDR_OVERRUN
- TAXIWAY

NOTES

Well ID	Well Type	Date	Product Thickness	Units	Measured By
USTAS4141-RW01	RW	10/19/2006	0.10000	ft	SHAW
USTAS4141-TPZ01	T-II	10/19/2006	0.26000	ft	SHAW
USTAS4141-TPZ03	T-II	10/19/2006	1.05000	ft	SHAW
USTAS4141-TPZ04	T-II	10/19/2006	0.41000	ft	SHAW
USTAS4141-TPZ05	T-II	10/19/2006	1.45000	ft	SHAW

CATLIN
Engineers and Scientists

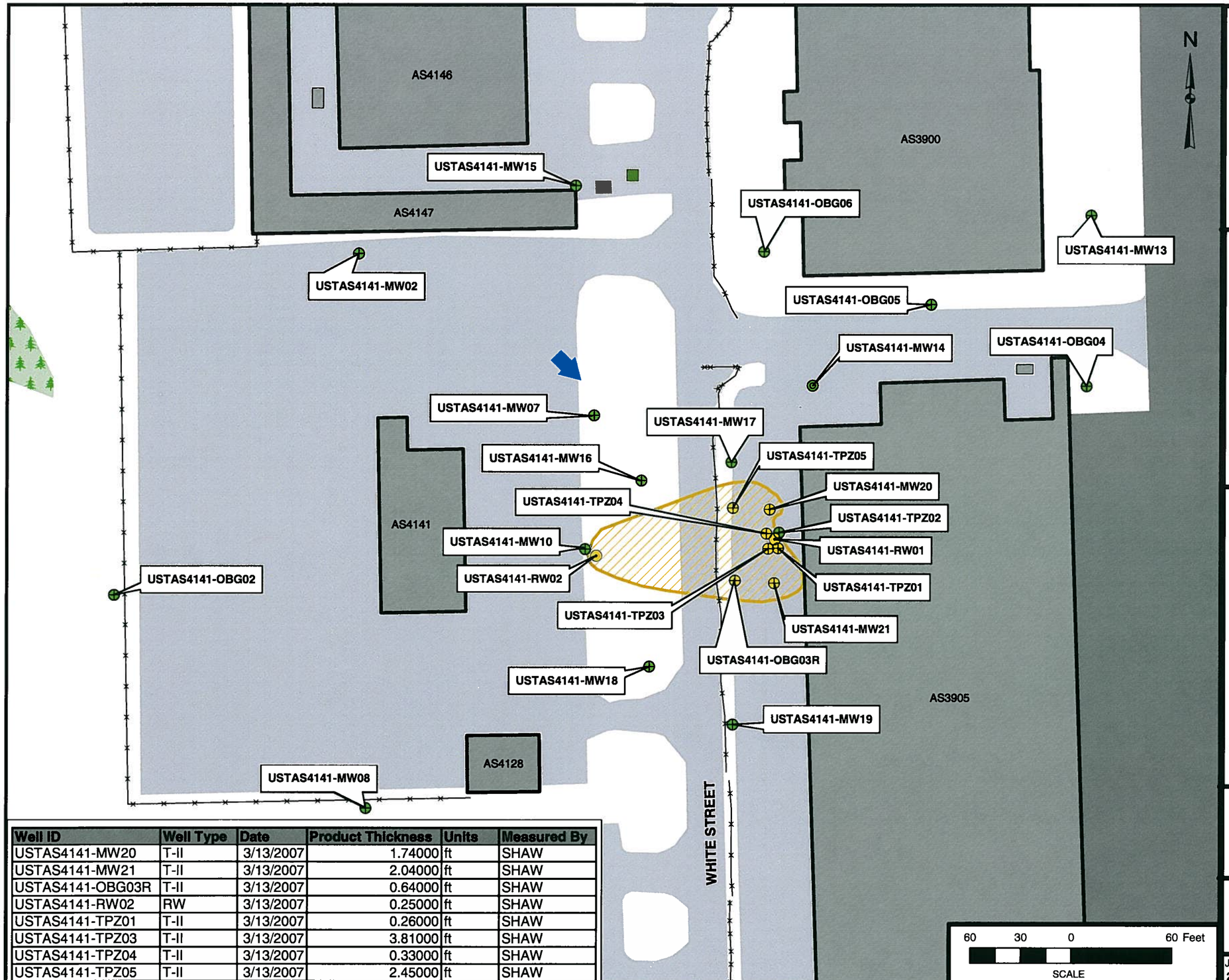
SITE AS-4141
FREE PRODUCT PLUME MAP
FOURTH QUARTER 2006

FIGURE
7.1A

Job No.:	Date:	Scale:	Drawn By:	Checked By:
207-002	DEC 2007	AS SHOWN	SAC	MEM

MCB CAMP LEJEUNE
UST MANAGEMENT PROGRAM
CALENDAR YEAR 2007

NAVFAC
Naval Facilities Engineering Command



LEGEND

Monitoring Wells
- Type I
- Type II
- Type III
- Pumping Well
- Unknown Well Type
- Water Supply Wells
- Above Ground Storage Tank
- Underground Storage Tank
- Railroad Tracks

Walls and Fences
- FENCE
- GATE
- WALL

Free Product
- Free Product Detected
- No Measurable Product
- Free Product Plume
- Buildings and Structures
- Demolished Structures
- Oil/Water Separators
- Slabs
- Roads
- Driveways
- Parking Lots
- Surface Water Bodies
- Creeks and Streams
- Historical Groundwater Flow Direction

Vegetation Cover
- Forestland
- Scrubland
- Wetland

Airfield Pavement
- HELIPAD
- RAMP
- RUNWAY
- SHLDR_OVERRUN
- TAXIWAY

NOTES

Well ID	Well Type	Date	Product Thickness	Units	Measured By
USTAS4141-MW20	T-II	3/13/2007	1.74000	ft	SHAW
USTAS4141-MW21	T-II	3/13/2007	2.04000	ft	SHAW
USTAS4141-OBG03R	T-II	3/13/2007	0.64000	ft	SHAW
USTAS4141-RW02	RW	3/13/2007	0.25000	ft	SHAW
USTAS4141-TPZ01	T-II	3/13/2007	0.26000	ft	SHAW
USTAS4141-TPZ03	T-II	3/13/2007	3.81000	ft	SHAW
USTAS4141-TPZ04	T-II	3/13/2007	0.33000	ft	SHAW
USTAS4141-TPZ05	T-II	3/13/2007	2.45000	ft	SHAW

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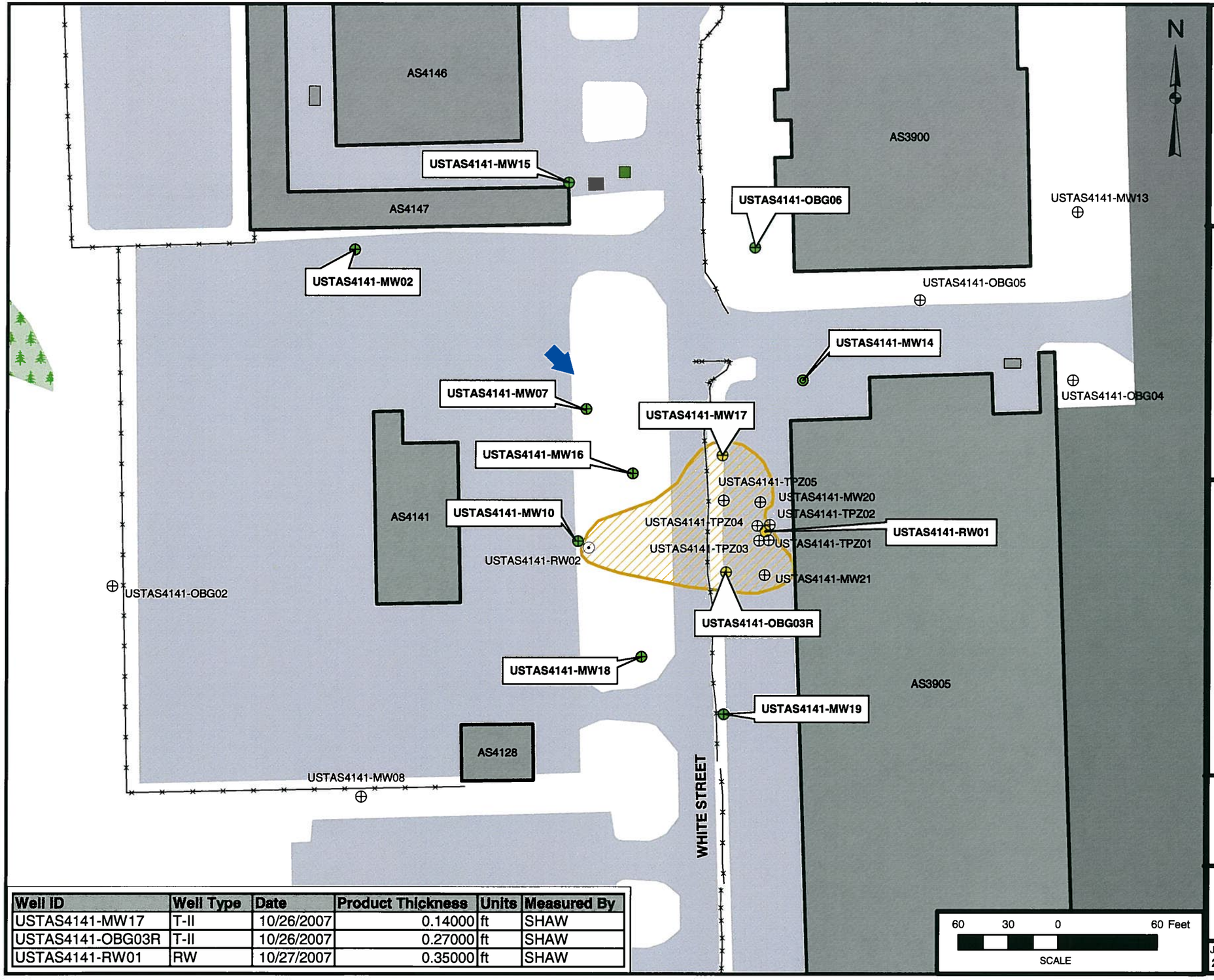
SITE AS-4141
FREE PRODUCT PLUME MAP
FIRST QUARTER 2007

FIGURE **7.1B**

Job No.:	Date:	Scale:	Drawn By:	Checked By:
207-002	DEC 2007	AS SHOWN	SAC	MEM

MCB CAMP LEJEUNE
UST MANAGEMENT PROGRAM
CALENDAR YEAR 2007

NAVFAC
Naval Facilities Engineering Command



LEGEND

Monitoring Wells
- Type I
- Type II
- Type III
- Pumping Well
- Unknown Well Type
- Water Supply Wells
- Above Ground Storage Tank
- Underground Storage Tank
- Railroad Tracks

Walls and Fences
- FENCE
- GATE
- WALL

Free Product
- Free Product Detected
- No Measurable Product
- Free Product Plume
- Buildings and Structures
- Demolished Structures
- Oil/Water Separators
- Slabs
- Roads
- Driveways
- Parking Lots
- Surface Water Bodies
- Creeks and Streams
- Historical Groundwater Flow Direction

Vegetation Cover
- Forestland
- Scrubland
- Wetland

Airfield Pavement
- HELIPAD
- RAMP
- RUNWAY
- SHLDR_OVERRUN
- TAXIWAY

NOTES

1. Free product plume boundaries based on March 2007 and October 2007 gauging results.

Well ID	Well Type	Date	Product Thickness	Units	Measured By
USTAS4141-MW17	T-II	10/26/2007	0.14000	ft	SHAW
USTAS4141-OBG03R	T-II	10/26/2007	0.27000	ft	SHAW
USTAS4141-RW01	RW	10/27/2007	0.35000	ft	SHAW

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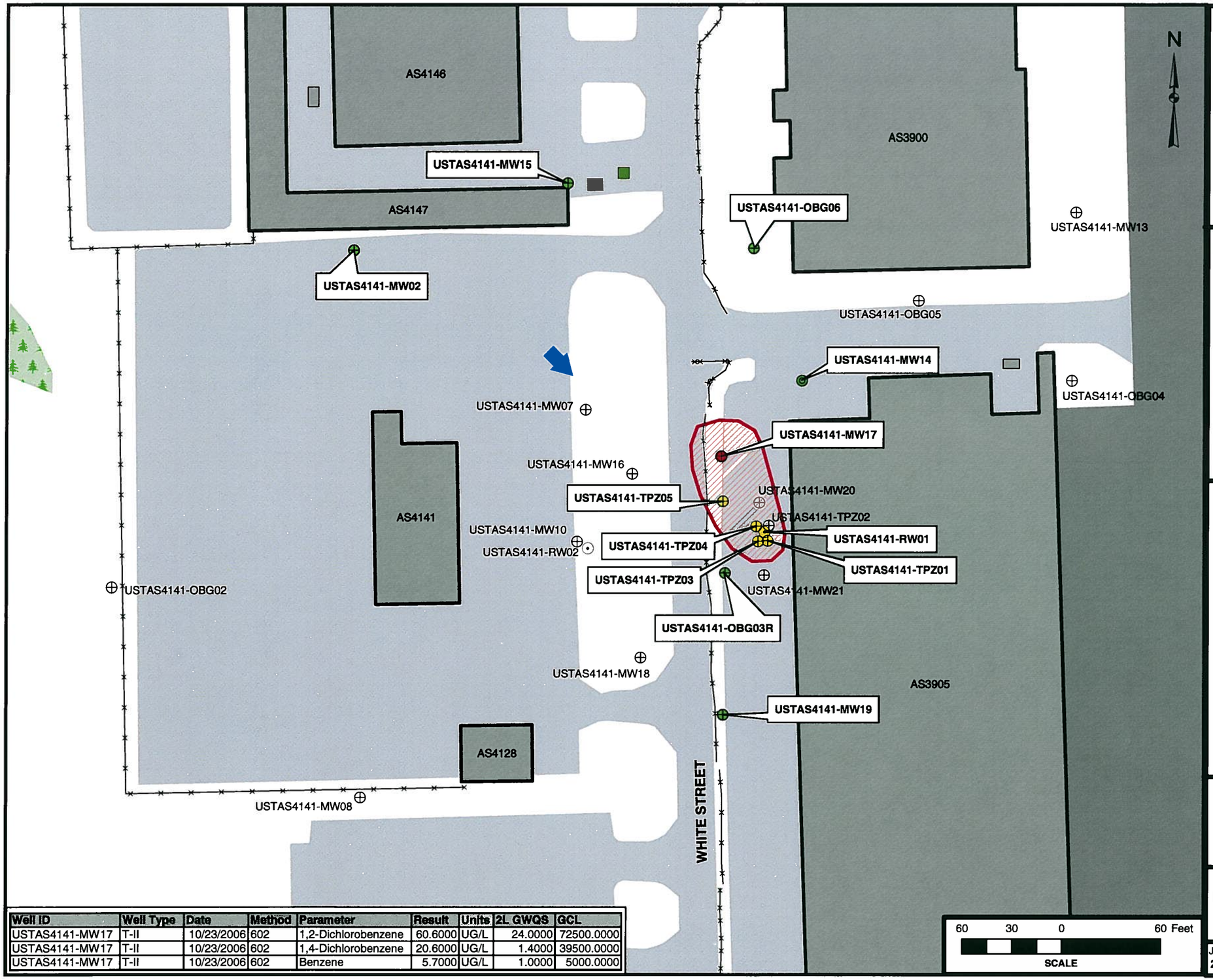
SITE AS-4141
FREE PRODUCT PLUME MAP
FOURTH QUARTER 2007

FIGURE
7.1C

Job No.:	Date:	Scale:	Drawn By:	Checked By:
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MCB CAMP LEJEUNE
UST MANAGEMENT PROGRAM
CALENDAR YEAR 2007

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Naval Facilities Engineering Command



LEGEND

Monitoring Wells
- Type I
- Type II
- Type III
- Pumping Well
- Unknown Well Type
- Water Supply Wells
- Above Ground Storage Tank
- Underground Storage Tank
- Railroad Tracks

Walls and Fences
- FENCE
- GATE
- WALL

Analytical Results
- Free Product Detected
- 2L Non-Compliant
- 2L Compliant
- EPA 602 Plume
- Buildings and Structures
- Demolished Structures
- Oil/Water Separators
- Slabs
- Roads
- Driveways
- Parking Lots
- Surface Water Bodies
- Creeks and Streams
- Historical Groundwater Flow Direction

Vegetation Cover
- Forestland
- Scrubland
- Wetland

Airfield Pavement
- HELIPAD
- RAMP
- RUNWAY
- TAXIWAY
- SHLDR_OVERRUN

NOTES

1. 2L Standard refers to North Carolina Groundwater Quality Standard 15A NCAC 2L.0202.
2. GCL refers to Gross Contaminant Level as defined in "Guidelines for the Assessment and Corrective Action" North Carolina Underground Storage Tank Section, effective July 1, 2001.
3. A 2L Standard of "0.00" implies a standard has not yet been established. According to NCAC T15:02L, any compound found above laboratory detection limits is considered noncompliant unless otherwise specified by the NCDENR.

Well ID	Well Type	Date	Method	Parameter	Result	Units	2L GWQS	GCL
USTAS4141-MW17	T-II	10/23/2006	602	1,2-Dichlorobenzene	60.6000	UG/L	24.0000	72500.0000
USTAS4141-MW17	T-II	10/23/2006	602	1,4-Dichlorobenzene	20.6000	UG/L	1.4000	39500.0000
USTAS4141-MW17	T-II	10/23/2006	602	Benzene	5.7000	UG/L	1.0000	5000.0000

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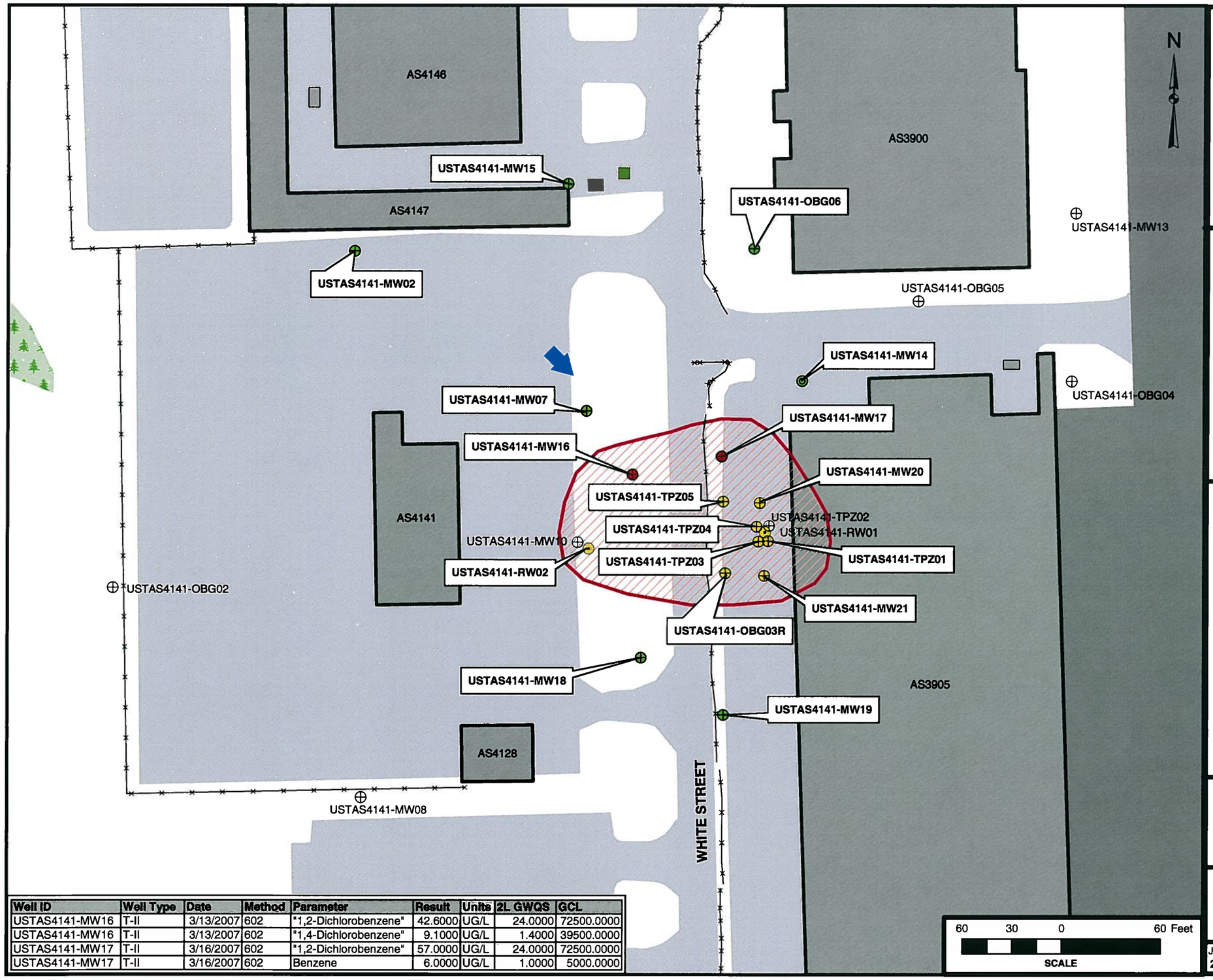
SITE AS-4141
EPA METHOD 602 COLORIMETRY AND PLUME IN EXCESS OF 2L FOURTH QUARTER 2006

FIGURE
7.2A

Job No.:	Date:	Scale:	Drawn By:	Checked By:
207-002	DEC 2007	AS SHOWN	SAC	MEM

MCB CAMP LEJEUNE
UST MANAGEMENT PROGRAM
CALENDAR YEAR 2007

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Naval Facilities Engineering Command



LEGEND

Monitoring Wells
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- Pumping Well
- Unknown Well Type
- Water Supply Wells
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Walls and Fences
- FENCE
- GATE
- WALL

Analytical Results
- Free Product Detected
- 2L Non-Compliant
- 2L Compliant
- EPA 602 Plume
- Buildings and Structures
- Demolished Structures
- Oil/Water Separators
- Slabs
- Roads
- Driveways
- Parking Lots
- Surface Water Bodies
- Creeks and Streams
- Historical Groundwater Flow Direction

Vegetation Cover
- Forestland
- Scrubland
- Wetland

Airfield Pavement
- HELIPAD
- RAMP
- RUNWAY
- TAXIWAY
- SHLDR_OVERRUN

NOTES

1. 2L Standard refers to North Carolina Groundwater Quality Standard 15A NCAC 2L.0202.
2. GCL refers to Gross Contaminant Level as defined in Table 9 of "Guidelines for Assessment and Corrective Action" North Carolina Underground Storage Tank Section, effective July 1, 2001.
3. A 2L Standard of "0.00" implies a standard has not yet been established. According to NCAC T15:02L, any compound found above laboratory detection limits is considered noncompliant unless otherwise specified by the NCDENR.

Well ID	Well Type	Date	Method	Parameter	Result	Units	2L GWQS	GCL
USTAS4141-MW16	T-II	3/13/2007	602	"1,2-Dichlorobenzene"	42.6000	UG/L	24.0000	72500.0000
USTAS4141-MW16	T-II	3/13/2007	602	"1,4-Dichlorobenzene"	9.1000	UG/L	1.4000	39500.0000
USTAS4141-MW17	T-II	3/16/2007	602	"1,2-Dichlorobenzene"	57.0000	UG/L	24.0000	72500.0000
USTAS4141-MW17	T-II	3/16/2007	602	Benzene	6.0000	UG/L	1.0000	5000.0000

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SITE AS-4141
EPA METHOD 602 COLORIMETRY AND PLUME IN EXCESS OF 2L
FIRST QUARTER 2007

FIGURE **7.2B**

Job No.:	Date:	Scale:	Drawn By:	Checked By:
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MCB CAMP LEJEUNE
UST MANAGEMENT PROGRAM
CALENDAR YEAR 2007

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Naval Facilities Engineering Command

N

AS4146
AS4147
AS3900
AS4141
AS4128
AS3905

USTAS4141-MW15
USTAS4141-MW02
USTAS4141-OBG06
USTAS4141-MW13
USTAS4141-OBG05
USTAS4141-MW14
USTAS4141-MW07
USTAS4141-MW17
USTAS4141-MW16
USTAS4141-TPZ05
USTAS4141-MW20
USTAS4141-TPZ04
USTAS4141-TPZ02
USTAS4141-RW01
USTAS4141-MW10
USTAS4141-RW02
USTAS4141-TPZ03
USTAS4141-TPZ01
USTAS4141-MW21
USTAS4141-OBG02
USTAS4141-OBG03R
USTAS4141-MW18
USTAS4141-MW19
USTAS4141-OBG04
USTAS4141-MW08
WHITE STREET

60 30 0 60 Feet
SCALE

LEGEND

Monitoring Wells
- Type I
- Type II
- Type III
- Pumping Well
- Unknown Well Type
- Water Supply Wells
- Above Ground Storage Tank
- Underground Storage Tank
- Railroad Tracks

Walls and Fences
- FENCE
- GATE
- WALL

Analytical Results
- Free Product Detected
- 2L Non-Compliant
- 2L Compliant
- EPA 602 Plume
- Buildings and Structures
- Demolished Structures
- Oil/Water Separators
- Slabs
- Roads
- Driveways
- Parking Lots
- Surface Water Bodies
- Creeks and Streams
- Historical Groundwater Flow Direction

Vegetation Cover
- Forestland
- Scrubland
- Wetland

Airfield Pavement
- HELIPAD
- RAMP
- RUNWAY
- TAXIWAY
- SHLDR_OVERRUN

NOTES

1. No EPA Method 602 compounds were detected above the 2L GWQS for any of the wells sampled during this monitoring event.
2. EPA Method 602 plume boundary is based on current and historical free product results.

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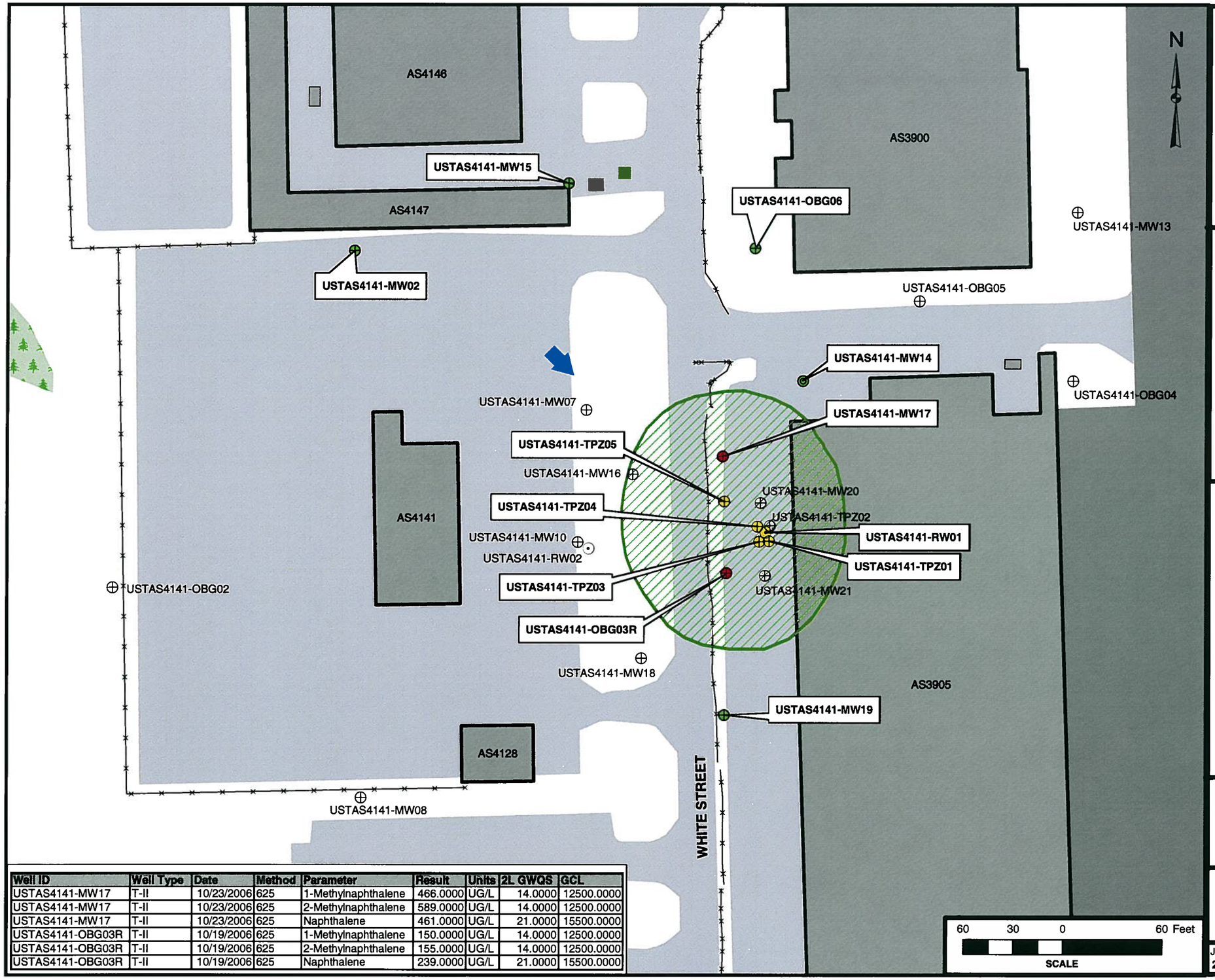
SITE AS-4141
EPA METHOD 602 COLORIMETRY AND PLUME IN EXCESS OF 2L
FOURTH QUARTER 2007

FIGURE **7.2C**

Job No.:	Date:	Scale:	Drawn By:	Checked By:
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MCB CAMP LEJEUNE
UST MANAGEMENT PROGRAM
CALENDAR YEAR 2007

NAVFAC
Naval Facilities Engineering Command



LEGEND

Monitoring Wells
- Type I
- Type II
- Type III
- Pumping Well
- Unknown Well Type
- Water Supply Wells
- Above Ground Storage Tank
- Underground Storage Tank
- Railroad Tracks

Walls and Fences
- FENCE
- GATE
- WALL

Analytical Results
- Free Product Detected
- 2L Non-Compliant
- 2L Compliant
- EPA 625 Plume
- Buildings and Structures
- Demolished Structures
- Oil/Water Separators
- Slabs
- Roads
- Driveways
- Parking Lots
- Surface Water Bodies
- Creeks and Streams
- Historical Groundwater Flow Direction

Vegetation Cover
- Forestland
- Scrubland
- Wetland

Airfield Pavement
- HELIPAD
- RAMP
- RUNWAY
- TAXIWAY
- SHLDR_OVERRUN

NOTES

1. 2L Standard refers to North Carolina Groundwater Quality Standard 15A NCAC 2L.0202.
2. GCL refers to Gross Contaminant Level as defined in Table 9 of "Guidelines for Assessment and Corrective Action" North Carolina Underground Storage Tank Section, effective July 1, 2001.
3. A 2L Standard of "0.00" implies a standard has not yet been established. According to NCAC T15:02L, any compound found above laboratory detection limits is considered noncompliant unless otherwise specified by the NCDENR.

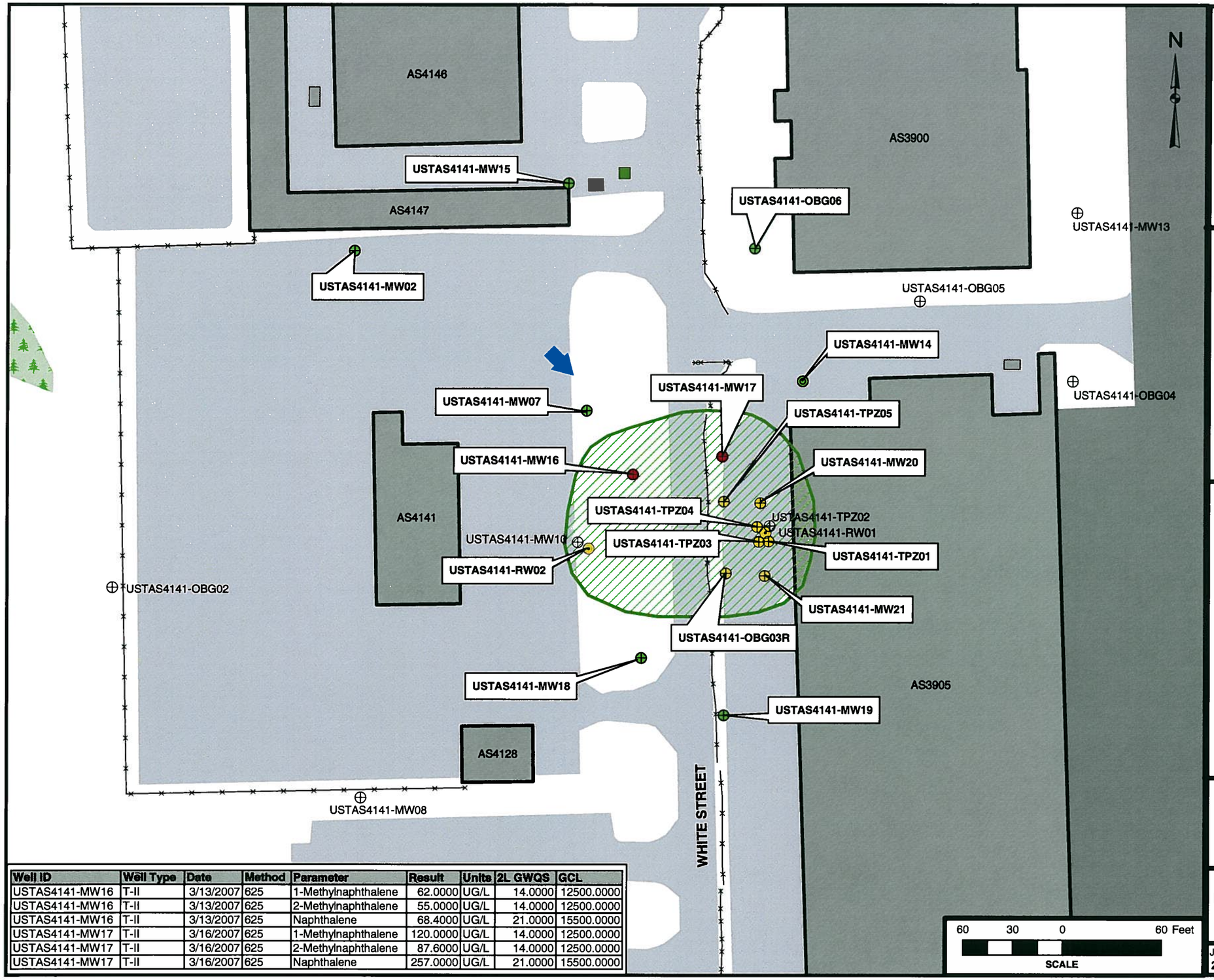
Well ID	Well Type	Date	Method	Parameter	Result	Units	2L GWQS	GCL
USTAS4141-MW17	T-II	10/23/2006	625	1-Methylnaphthalene	466.0000	UG/L	14.0000	12500.0000
USTAS4141-MW17	T-II	10/23/2006	625	2-Methylnaphthalene	589.0000	UG/L	14.0000	12500.0000
USTAS4141-MW17	T-II	10/23/2006	625	Naphthalene	461.0000	UG/L	21.0000	15500.0000
USTAS4141-OBG03R	T-II	10/19/2006	625	1-Methylnaphthalene	150.0000	UG/L	14.0000	12500.0000
USTAS4141-OBG03R	T-II	10/19/2006	625	2-Methylnaphthalene	155.0000	UG/L	14.0000	12500.0000
USTAS4141-OBG03R	T-II	10/19/2006	625	Naphthalene	239.0000	UG/L	21.0000	15500.0000

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SITE AS-4141
EPA METHOD 625 COLORIMETRY AND PLUME IN EXCESS OF 2L
FOURTH QUARTER 2006

FIGURE
7.3A

Job No.:	Date:	Scale:	Drawn By:	Checked By:
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Well ID	Well Type	Date	Method	Parameter	Result	Units	2L GWQS	GCL
USTAS4141-MW16	T-II	3/13/2007	625	1-Methylnaphthalene	62.0000	UG/L	14.0000	12500.0000
USTAS4141-MW16	T-II	3/13/2007	625	2-Methylnaphthalene	55.0000	UG/L	14.0000	12500.0000
USTAS4141-MW16	T-II	3/13/2007	625	Naphthalene	68.4000	UG/L	21.0000	15500.0000
USTAS4141-MW17	T-II	3/16/2007	625	1-Methylnaphthalene	120.0000	UG/L	14.0000	12500.0000
USTAS4141-MW17	T-II	3/16/2007	625	2-Methylnaphthalene	87.6000	UG/L	14.0000	12500.0000
USTAS4141-MW17	T-II	3/16/2007	625	Naphthalene	257.0000	UG/L	21.0000	15500.0000

MCB CAMP LEJEUNE
UST MANAGEMENT PROGRAM
CALENDAR YEAR 2007

NAVFAC Naval Facilities Engineering Command

LEGEND

Monitoring Wells
- Type I
- Type II
- Type III
- Pumping Well
- Unknown Well Type
- Water Supply Wells
- Above Ground Storage Tank
- Underground Storage Tank
- Railroad Tracks

Walls and Fences
- FENCE
- GATE
- WALL

Analytical Results
- Free Product Detected
- 2L Non-Compliant
- 2L Compliant
- EPA 625 Plume
- Buildings and Structures
- Demolished Structures
- Oil/Water Separators
- Slabs
- Roads
- Driveways
- Parking Lots
- Surface Water Bodies
- Creeks and Streams
- Historical Groundwater Flow Direction

Vegetation Cover
- Forestland
- Scrubland
- Wetland

Airfield Pavement
- HELIPAD
- RAMP
- RUNWAY
- TAXIWAY
- SHLDR_OVERRUN

NOTES

1. 2L Standard refers to North Carolina Groundwater Quality Standard 15A NCAC 2L.0202.
2. GCL refers to Gross Contaminant Level as defined in Table 9 of "Guidelines for Assessment and Corrective Action" North Carolina Underground Storage Tank Section, effective July 1, 2001.
3. A 2L Standard of "0.00" implies a standard has not yet been established. According to NCAC T15:02L, any compound found above laboratory detection limits is considered noncompliant unless otherwise specified by the NCDENR.

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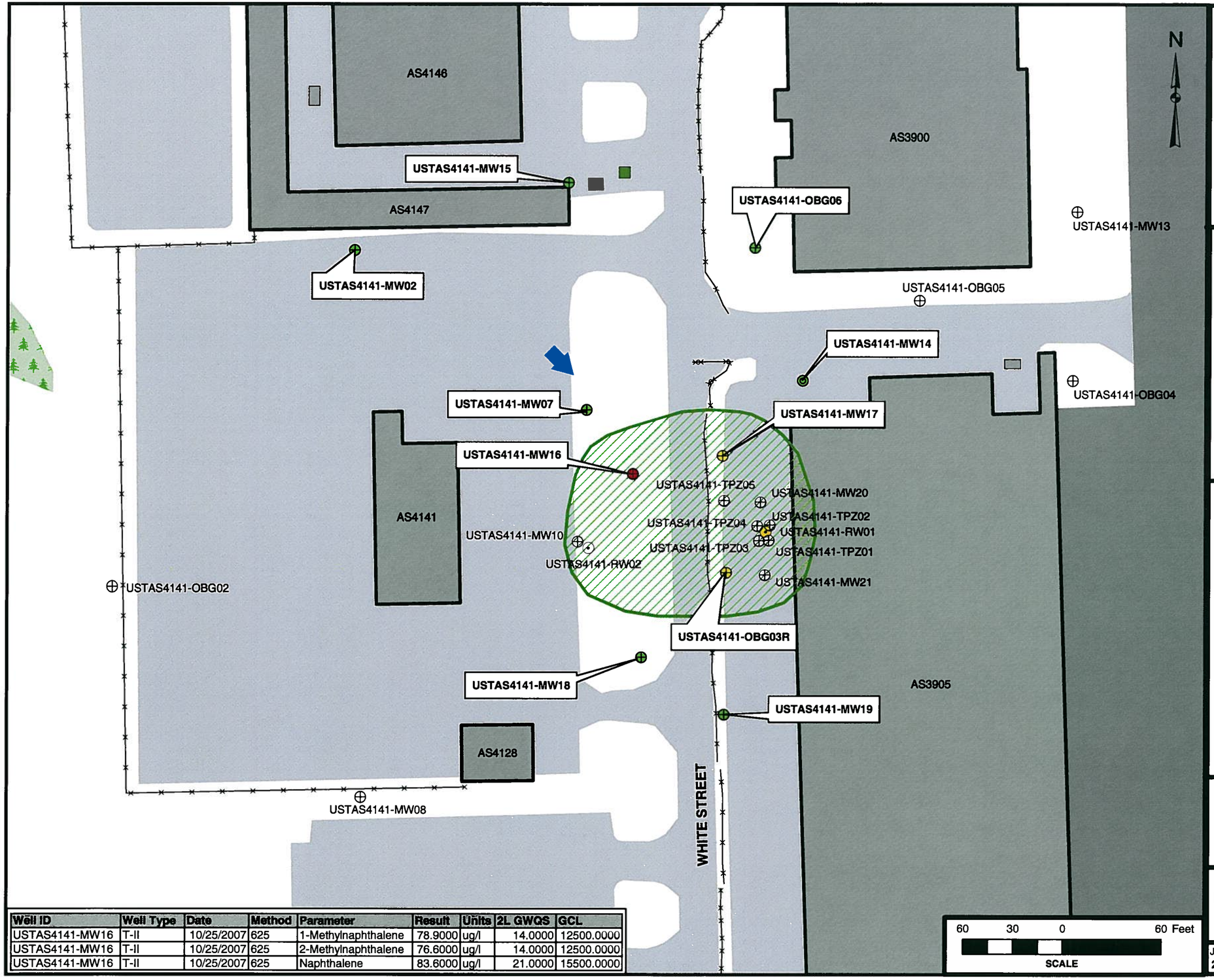
SITE AS-4141
EPA METHOD 625 COLORIMETRY AND PLUME IN EXCESS OF 2L FIRST QUARTER 2007

FIGURE **7.3B**

Job No.:	Date:	Scale:	Drawn By:	Checked By:
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MCB CAMP LEJEUNE
UST MANAGEMENT PROGRAM
CALENDAR YEAR 2007

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Naval Facilities Engineering Command



LEGEND

Monitoring Wells
- Type I
- Type II
- Type III
- Pumping Well
- Unknown Well Type
- Water Supply Wells
- Above Ground Storage Tank
- Underground Storage Tank
- Railroad Tracks

Walls and Fences
- FENCE
- GATE
- WALL

Analytical Results
- Free Product Detected
- 2L Non-Compliant
- 2L Compliant
- EPA 625 Plume

Buildings and Structures
- Buildings and Structures
- Demolished Structures
- Oil/Water Separators
- Slabs
- Roads
- Driveways
- Parking Lots
- Surface Water Bodies
- Creeks and Streams
- Historical Groundwater Flow Direction

Vegetation Cover
- Forestland
- Scrubland
- Wetland

Airfield Pavement
- HELIPAD
- RAMP
- RUNWAY
- TAXIWAY
- SHLDR_OVERRUN

NOTES

1. 2L Standard refers to North Carolina Groundwater Quality Standard 15A NCAC 2L.0202.
2. GCL refers to Gross Contaminant Level as defined in "Guidelines for the Assessment and Corrective Action" North Carolina Underground Storage Tank Section, effective July 1, 2001.
3. A 2L Standard of "0.00" implies a standard has not yet been established. According to NCAC T15:02L, any compound found above laboratory detection limits is considered noncompliant unless otherwise specified by the NCDENR.

Well ID	Well Type	Date	Method	Parameter	Result	Units	2L GWQS	GCL
USTAS4141-MW16	T-II	10/25/2007	625	1-Methylnaphthalene	78.9000	ug/l	14.0000	12500.0000
USTAS4141-MW16	T-II	10/25/2007	625	2-Methylnaphthalene	76.6000	ug/l	14.0000	12500.0000
USTAS4141-MW16	T-II	10/25/2007	625	Naphthalene	83.6000	ug/l	21.0000	15500.0000

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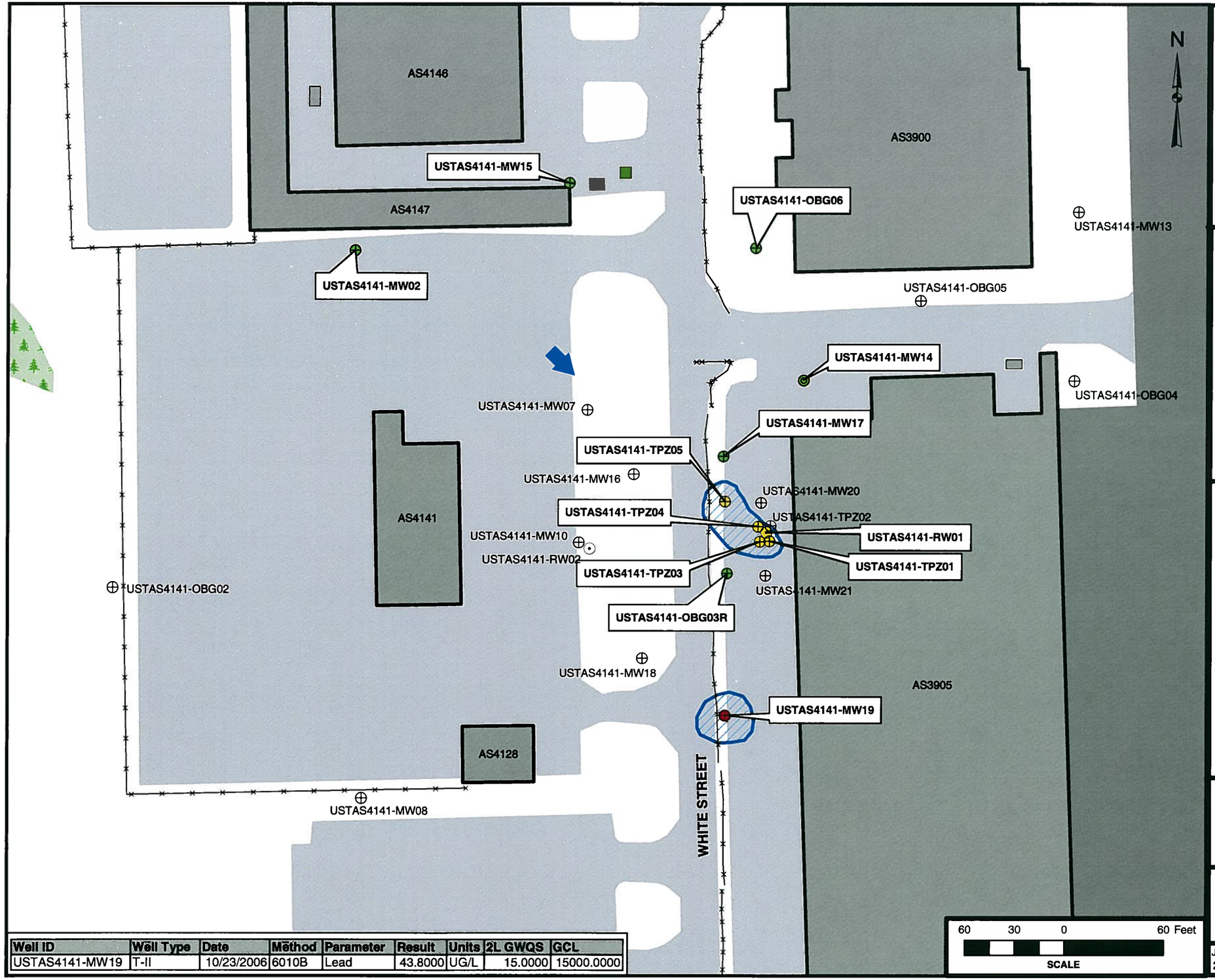
SITE AS-4141
EPA METHOD 625 COLORIMETRY AND PLUME IN EXCESS OF 2L
FOURTH QUARTER 2007

FIGURE
7.3C

Job No.:	Date:	Scale:	Drawn By:	Checked By:
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MCB CAMP LEJEUNE
UST MANAGEMENT PROGRAM
CALENDAR YEAR 2007

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Naval Facilities Engineering Command



LEGEND

Monitoring Wells
- Type I
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- Pumping Well
- Unknown Well Type
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- Above Ground Storage Tank
- Underground Storage Tank
- Railroad Tracks

Walls and Fences
- FENCE
- GATE
- WALL

Analytical Results
- Free Product Detected
- 2L Non-Compliant
- 2L Compliant
- EPA 6010B Plume
- Buildings and Structures
- Demolished Structures
- Oil/Water Separators
- Slabs
- Roads
- Driveways
- Parking Lots
- Surface Water Bodies
- Creeks and Streams
- Historical Groundwater Flow Direction

Vegetation Cover
- Forestland
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- Wetland

Airfield Pavement
- HELIPAD
- RAMP
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- TAXIWAY
- SHLDR_OVERRUN

NOTES

1. 2L Standard refers to North Carolina Groundwater Quality Standard 15A NCAC 2L.0202.
2. GCL refers to Gross Contaminant Level as defined in Table 9 of "Guidelines for Assessment and Corrective Action" North Carolina Underground Storage Tank Section, effective July 1, 2001.
3. A 2L Standard of "0.00" implies a standard has not yet been established. According to NCAC T15:02L, any compound found above laboratory detection limits is considered noncompliant unless otherwise specified by the NCDENR.

Well ID	Well Type	Date	Method	Parameter	Result	Units	2L GWQS	GCL
USTAS4141-MW19	T-II	10/23/2006	6010B	Lead	43.8000	UG/L	15.0000	15000.0000

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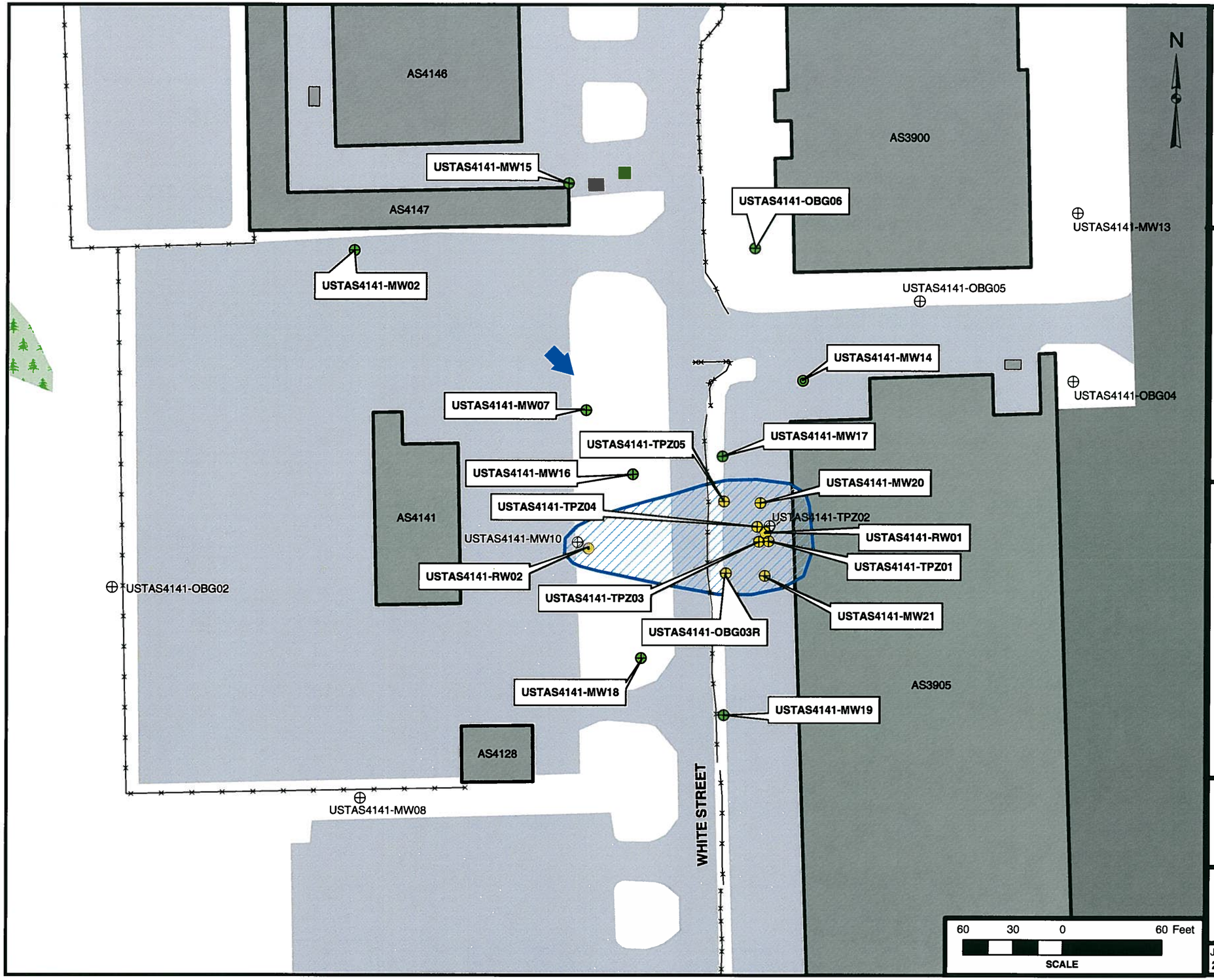
SITE AS-4141
EPA METHOD 6010B COLORIMETRY AND PLUME IN EXCESS OF 2L FOURTH QUARTER 2006

FIGURE **7.4A**

Job No.:	Date:	Scale:	Drawn By:	Checked By:
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MCB CAMP LEJEUNE
UST MANAGEMENT PROGRAM
CALENDAR YEAR 2007

NAVFAC
Naval Facilities Engineering Command



LEGEND

Monitoring Wells
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Walls and Fences
- FENCE
- GATE
- WALL

Analytical Results
- Free Product Detected
- 2L Non-Compliant
- 2L Compliant
- EPA 6010B Plume
- Buildings and Structures
- Demolished Structures
- Oil/Water Separators
- Slabs
- Roads
- Driveways
- Parking Lots
- Surface Water Bodies
- Creeks and Streams
- Historical Groundwater Flow Direction

Vegetation Cover
- Forestland
- Scrubland
- Wetland

Airfield Pavement
- HELIPAD
- RAMP
- RUNWAY
- TAXIWAY
- SHLDR_OVERRUN

NOTES

1. No EPA Method 6010B compounds were detected above the 2L GWQS for any of the wells sampled during this monitoring event.
2. EPA Method 6010B plume boundary based on extent of free product.

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Engineers and Scientists

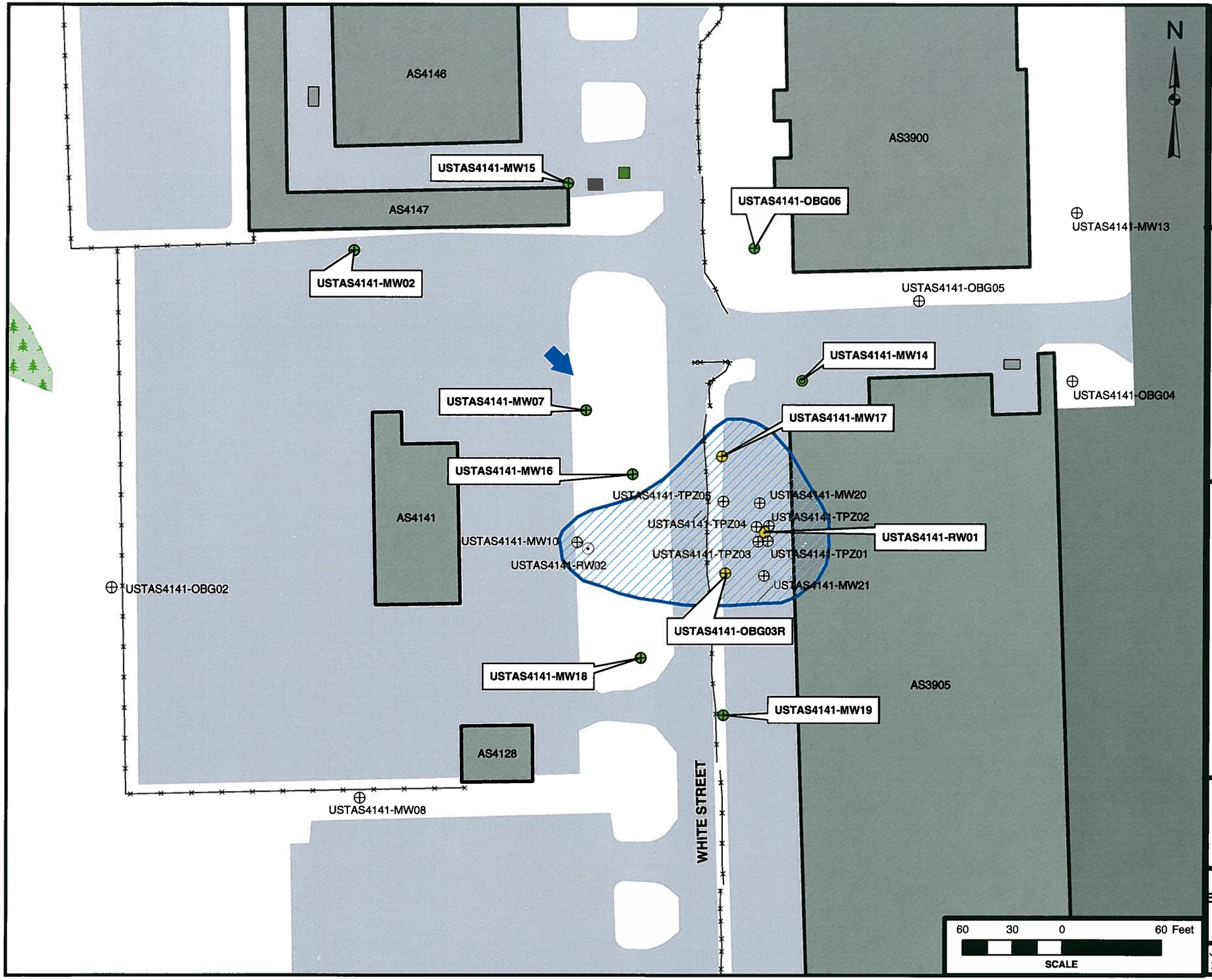
SITE AS-4141
EPA METHOD 6010B COLORIMETRY AND PLUME IN EXCESS OF 2L FIRST QUARTER 2007

FIGURE **7.4B**

Job No.:	Date:	Scale:	Drawn By:	Checked By:
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MCB CAMP LEJEUNE
UST MANAGEMENT PROGRAM
CALENDAR YEAR 2007

NAVFAC
Naval Facilities Engineering Command



LEGEND

Monitoring Wells
- Type I
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- Type III
- Pumping Well
- Unknown Well Type
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- Railroad Tracks

Walls and Fences
- FENCE
- GATE
- WALL

Analytical Results
- Free Product Detected
- 2L Non-Compliant
- 2L Compliant
- EPA 6010B Plume
- Buildings and Structures
- Demolished Structures
- Oil/Water Separators
- Slabs
- Roads
- Driveways
- Parking Lots
- Surface Water Bodies
- Creeks and Streams
- Historical Groundwater Flow Direction

Vegetation Cover
- Forestland
- Scrubland
- Wetland

Airfield Pavement
- HELIPAD
- RAMP
- RUNWAY
- TAXIWAY
- SHLDR_OVERRUN

NOTES

1. No EPA Method 6010B compounds were detected above the 2L GWQS for any of the wells sampled during this monitoring event.
2. EPA Method 6010B plume boundary is based on current and historical free product results.

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Engineers and Scientists

SITE AS-4141
EPA METHOD 6010B COLORIMETRY AND PLUME IN EXCESS OF 2L
FOURTH QUARTER 2007

FIGURE **7.4C**

Job No.:	Date:	Scale:	Drawn By:	Checked By:
207-002	DEC 2007	AS SHOWN	SAC	MEM

SECTION 8.0

OF THE

ANNUAL MANAGEMENT REPORT
MCB CAMP LEJEUNE UST MANAGEMENT PROGRAM

MONITORING EVENT:

YEAR 2007
(JANUARY – DECEMBER 2007)

SITE-SPECIFIC MONITORING REPORT
FOR

SITE AS-4158

NCDENR INCIDENT NO. 10804

8.0 EXECUTIVE SUMMARY
SITE AS-4158

8.1 Site Information

8.1.1 Site Location: MCAS New River
8.1.2 Incident Number(s): 10804
8.1.3 UTM Coordinates (WGS84, Meters): 274871.75 Easting, 3843672.85 Northing
8.1.4 Risk Classification: High
8.1.5 Land Use Classification: Industrial/Commercial
8.1.6 Source Type(s): Former (removed in 1992) gasoline and diesel USTs including: one (1) 3,000-gallon gasoline and two (2) 3,000-gallon diesel USTs. An underground fuel transfer line leak was discovered in January 2002.

8.2 Monitoring Event Information

8.2.1 Sampling Performed By: Shaw Environment and Infrastructure, Inc. (Shaw)
8.2.2 Date(s) of This Monitoring Event: March 2007, June 2007 and October 2007
8.2.3 Date(s) of Previous Monitoring Event: July 2005
8.2.4 Reason(s) for This Monitoring Event: Track attenuation and migration of dissolved-phase plume
8.2.5 Site Monitoring Status at Time of This Event: Three groundwater sampling events conducted during 2007 consisting of sampling 10 selected on-site monitoring wells.

8.3 Groundwater Hydraulics

8.3.1 Hydraulic Conductivity: 11.7 ft/day
8.3.2 Effective Porosity: 0.20
8.3.3 Hydraulic Gradient: Well pair MW-9/MW-8 = 0.086, Well pair MW-9/MW-10 = 0.12
8.3.4 Average Linear Groundwater Flow Velocity: 5 ft/day
8.3.5 Groundwater Flow Direction: Northeast
8.3.6 Range of Measured Water Table Elevations: See Table 8.1
8.3.7 Significant Changes from Previously Reported Data: None.

8.4 Free Product Plume

8.4.1 Free Product Present?: Yes.
8.4.2 Free Product Thickness Measured: See Table 8.1
8.4.3 Plume Size and Location: See Figures 8.1A through 8.1C
8.4.4 Free Product Removed from Site This Period: None
8.4.5 Significant Changes from Previously Reported Data: Free product had not been detected for several years at the subject site however; Shaw indicated that in December 2007 monitoring well USTAS4158-MW09 contained measurable thickness of free product (0.01'). Please note, the data from December 2007 is not included in this report.

8.5 Dissolved-Phase Plume

8.5.1 Plume Concentrations: See Tables 8.2 through 8.4

8.5.2 Plume Size and Location: See Figures 8.2A through 8.4C

8.5.3 Significant Changes from Previously Reported Data: The current groundwater sample analytical results compared to the analytical results from the July 2005 sampling event are discussed as follows:

EPA Method 602

During the July 2005 sampling event, no EPA Method 602 compounds were detected above the corresponding 2L GWQS. Minor concentrations of Benzene, MTBE, Toluene, and/or Total Xylenes were revealed in wells USTAS4158-MW09, USTAS4158-MW11, USTAS4158-MW13, USTAS4158-MW15, USTAS4158-MW17, and USTAS4158-MW18.

EPA Method 602 analysis was not conducted during the current monitoring events.

EPA Method 610

During the July 2005 sampling event, no EPA Method 610 compounds were detected above the corresponding 2L GWQS or laboratory reporting limit.

EPA Method 610 analysis was not conducted during the current monitoring events.

EPA Method 624

During the current monitoring events EPA Method 624 analysis was performed in lieu of EPA Method 602 analysis. The analytical results from each of the three events conducted during the current monitoring period revealed Benzene concentrations above the 2L GWQS of 1 ug/L. During the March 2007 sampling event, Benzene was detected in monitoring wells USTAS4158-MW09, USTAS4158-MW11 and USTAS4158-MW13 at concentrations of 10.5 ug/L, 8.3 ug/L, and 88.3 ug/L, respectively. During the June 2007 sampling event, Benzene was detected in monitoring wells USTAS4158-MW09, USTAS4158-MW11 and USTAS4158-MW13 at concentrations of 16.4 ug/L, 2.9 ug/L, and 9.2 ug/L, respectively. During the October 2007 sampling event, Benzene was detected in monitoring wells USTAS4158-MW09 and USTAS4158-MW11 at concentrations of 8.0 ug/L and 5.5 ug/L, respectively. See Figures 8.2A through 8.2C.

EPA Method 624 analysis was not conducted during the July 2005 monitoring event.

EPA Method 625

During the current monitoring events EPA Method 625 analysis was performed in lieu of EPA Method 610 analysis. Analytical results from the current monitoring events revealed, no EPA Method 625 compounds were detected above the corresponding 2L GWQS. See Figures 8.3A through 8.3C.

EPA Method 625 analysis was not conducted during the July 2005 monitoring event.

EPA Method 6010B

The analytical results from two of the three events conducted during the current monitoring period revealed Lead concentrations above the 2L GWQS of 15 ug/L. During the June 2007 sampling event, Lead was detected in monitoring wells USTAS4158-MW07 and USTAS4158-MW14 at concentrations of 19.8 ug/L and 18.0 ug/L, respectively. During the October 2007 sampling event, Lead was detected in monitoring wells USTAS4158-MW07 and USTAS4158-MW14 at concentrations of 67.3 ug/L and 17.6 ug/L, respectively. See Figures 8.4A through 8.4C.

EPA Method 6010B analysis was not conducted during the July 2005 monitoring event.

8.6 Potential Receptors

8.6.1 Contaminated Water Supply Well(s)?: None
8.6.2 Potable Water Supply Well Within 1,000 Feet of Source Area?: Yes, however, the water supply well PSWAS4150 in not in use and is not expected to be in use in the near future.
8.6.3 Any Water Supply Well Within 250 Feet of Source Area?: No
8.6.4 Surface Water Body Within 500 Feet?: No
8.6.5 Past Evidence of Vapors?: No
8.6.6 Significant Changes from Previously Reported Data?: No

8.7 Remediation

8.7.1 Status: The remediation system was shutdown in January 2006, but restarted in August 2007 due to contaminant rebound.
8.7.2 Type: Air-sparge, SVE, passive free-product recovery skimmer, and hand bailing
8.7.3 Progress: On-going
8.7.4 Construction Contractor: JA Jones
8.7.5 Operating Contractor: Shaw

8.8 Observations and Comments

The minor amount of free product (0.01') detected in USTAS4158-MW09 should be addressed with a sorbent sock to recovery the free product. It is anticipated that the continued operation of the remediation system will aid in the removal of the free product and eventually the sorbent sock could be removed.

The remediation system should continue to operate, as it is apparent that contaminant levels rebounded after the remediation system was shut down. CATLIN recommends continued operation of the remediation system and modifying the groundwater sampling frequency from quarterly to semi-annually. CATLIN recommends the same analytical methods (EPA Methods 624, 625 and Lead via 6010B) and wells be sampled as is currently being conducted. See the figure in Appendix A for the proposed monitoring schedule. .At the time when two consecutive semi-annual groundwater sampling events reveal no contaminants above the 2L GWQS, the remediation system should be shut down and quarterly post-remediation sampling should begin.

TABLE 8.1
SITE AS-4158
FIELD MEASUREMENTS - JULY 2005 TO DECEMBER 2007

Well No.	Type	TOC	Date	DTW	Product Thickness	Corrected GWT Elevation
USTAS4158-MW01	T-II	20.54	7/26/2005		0.00	
USTAS4158-MW01	T-II	20.54	3/8/2007	6.70	0.00	13.84
USTAS4158-MW01	T-II	20.54	6/23/2007	7.43	0.00	13.11
USTAS4158-MW01	T-II	20.54	10/9/2007	8.41	0.00	12.13
USTAS4158-MW02	T-II	21.30	3/8/2007	0.00	0.00	21.30
USTAS4158-MW03	T-II	20.86	7/26/2005	10.72	0.00	10.14
USTAS4158-MW03	T-II	20.86	3/8/2007	6.50	0.00	14.36
USTAS4158-MW04	T-II	21.54	7/26/2005	6.85	0.00	14.69
USTAS4158-MW04	T-II	21.54	3/8/2007	7.47	0.00	14.07
USTAS4158-MW05	T-II	20.55	7/26/2005	7.82	0.00	12.73
USTAS4158-MW05	T-II	20.55	3/8/2007	7.42	0.00	13.13
USTAS4158-MW06	T-II	22.03	7/26/2005	14.47	0.00	7.56
USTAS4158-MW06	T-II	22.03	3/8/2007	7.48	0.00	14.55
USTAS4158-MW07	T-II	21.36	7/26/2005	8.25	0.00	13.11
USTAS4158-MW07	T-II	21.36	3/8/2007	8.10	0.00	13.26
USTAS4158-MW07	T-II	21.36	6/23/2007	9.07	0.00	12.29
USTAS4158-MW07	T-II	21.36	10/9/2007	9.69	0.00	11.67
USTAS4158-MW08	T-II	22.17	7/26/2005	15.40	0.00	6.77
USTAS4158-MW08	T-II	22.17	3/8/2007	8.17	0.00	14.00
USTAS4158-MW08	T-II	22.17	6/23/2007	10.02	0.00	12.15
USTAS4158-MW08	T-II	22.17	10/9/2007	10.75	0.00	11.42
USTAS4158-MW09	T-II	22.02	7/26/2005	8.73	0.00	13.29
USTAS4158-MW09	T-II	22.02	3/8/2007	8.53	0.00	13.49

Notes:
1. T-II = Type II monitoring well
   T-III = Type III monitoring well
   RW = Recovery well
2. TOC = Top of casing elevation in feet relative to Mean Sea Level.
3. DTW = Depth to water (in feet) from top of well casing.
4. Product thickness is measured in feet.
5. GWT = Groundwater Table
6. A zero ("0.00") in the product thickness column indicates no measureable thickness.
7. GWT Elevation corrected for measurable free product, if present.

Well No.	Type	TOC	Date	DTW	Product Thickness	Corrected GWT Elevation
USTAS4158-MW09	T-II	22.02	6/23/2007	9.47	0.00	12.55
USTAS4158-MW09	T-II	22.02	10/9/2007	9.98	0.00	12.04
USTAS4158-MW10	T-II	22.42	7/26/2005	17.74	0.00	4.68
USTAS4158-MW10	T-II	22.42	3/8/2007	9.48	0.00	12.94
USTAS4158-MW10	T-II	22.42	6/23/2007	10.79	0.00	11.63
USTAS4158-MW10	T-II	22.42	10/9/2007	9.48	0.00	12.94
USTAS4158-MW11	T-II	23.10	7/26/2005	10.39	0.00	12.71
USTAS4158-MW11	T-II	23.10	3/8/2007	10.00	0.00	13.10
USTAS4158-MW11	T-II	23.10	6/23/2007	11.12	0.00	11.98
USTAS4158-MW11	T-II	23.10	10/9/2007	11.78	0.00	11.32
USTAS4158-MW13	T-II	23.23	7/26/2005	11.03	0.00	12.20
USTAS4158-MW13	T-II	23.23	3/8/2007	10.40	0.00	12.83
USTAS4158-MW13	T-II	23.23	6/23/2007	11.43	0.00	11.80
USTAS4158-MW13	T-II	23.23	10/9/2007	12.11	0.00	11.12
USTAS4158-MW14	T-II	22.53	7/26/2005	17.16	0.00	5.37
USTAS4158-MW14	T-II	22.53	3/8/2007	9.21	0.00	13.32
USTAS4158-MW14	T-II	22.53	6/23/2007	9.80	0.00	12.73
USTAS4158-MW14	T-II	22.53	10/9/2007	9.61	0.00	12.92
USTAS4158-MW15	T-II	23.25	7/26/2005	9.76	0.00	13.49
USTAS4158-MW15	T-II	23.25	3/8/2007	9.68	0.00	13.57
USTAS4158-MW15	T-II	23.25	6/23/2007	10.81	0.00	12.44
USTAS4158-MW15	T-II	23.25	10/9/2007	11.31	0.00	11.94
USTAS4158-MW16	T-III	21.33	7/26/2005	8.65	0.00	12.68
USTAS4158-MW16	T-III	21.33	3/8/2007	8.12	0.00	13.21
USTAS4158-MW17	T-III	22.66	7/26/2005	10.03	0.00	12.63
USTAS4158-MW17	T-III	22.66	3/8/2007	9.40	0.00	13.26
USTAS4158-MW17	T-III	22.66	6/23/2007	10.94	0.00	11.72
USTAS4158-MW17	T-III	22.66	10/9/2007	11.97	0.00	10.69
USTAS4158-MW18	T-III	23.15	7/26/2005	10.64	0.00	12.51

Notes:
1. T-II = Type II monitoring well
   T-III = Type III monitoring well
   RW = Recovery well
2. TOC = Top of casing elevation in feet relative to Mean Sea Level.
3. DTW = Depth to water (in feet) from top of well casing.
4. Product thickness is measured in feet.
5. GWT = Groundwater Table
6. A zero ("0.00") in the product thickness column indicates no measureable thickness.
7. GWT Elevation corrected for measurable free product, if present.

Well No.	Type	TOC	Date	DTW	Product Thickness	Corrected GWT Elevation
USTAS4158-MW18	T-III	23.15	3/8/2007	10.49	0.00	12.66

Notes:
1. T-II = Type II monitoring well
   T-III = Type III monitoring well
   RW = Recovery well
2. TOC = Top of casing elevation in feet relative to Mean Sea Level.
3. DTW = Depth to water (in feet) from top of well casing.
4. Product thickness is measured in feet.
5. GWT = Groundwater Table
6. A zero ("0.00") in the product thickness column indicates no measureable thickness.
7. GWT Elevation corrected for measurable free product, if present.

TABLE 8.2

SITE AS-4158

GROUNDWATER LABORATORY ANALYTICAL RESULTS - JULY 2005 TO DECEMBER 2007

EPA METHOD 624

Contaminant of Concern →		Benzene	Ethylbenzene	Methyl Tert Butyl Ether	Toluene	Total Xylenes	Xylene (total)
Well ID	Date						
2L GWQS		1	550	200	1000	530	530
GCL		5000	550000	200000	257500	87500	87500
USTAS4158-MW01	3/8/2007	BQL	BQL	BQL	BQL	BQL	BQL
USTAS4158-MW01	6/23/2007	BQL	BQL	BQL	BQL	BQL	BQL
USTAS4158-MW01	10/9/2007	BQL	BQL	BQL	0.39	BQL	BQL
USTAS4158-MW07	3/8/2007	BQL	BQL	BQL	BQL	BQL	BQL
USTAS4158-MW07	6/23/2007	BQL	BQL	BQL	BQL	BQL	BQL
USTAS4158-MW07	10/9/2007	BQL	BQL	BQL	BQL	BQL	BQL
USTAS4158-MW07	10/9/2007	BQL	BQL	BQL	BQL	BQL	BQL
USTAS4158-MW08	3/8/2007	BQL	BQL	BQL	BQL	BQL	BQL
USTAS4158-MW08	6/23/2007	BQL	BQL	BQL	BQL	BQL	BQL
USTAS4158-MW08	10/9/2007	BQL	BQL	BQL	BQL	BQL	BQL

Notes:
1. 2L GWQS = North Carolina groundwater quality standard 15A NCAC 2L .0202
2. GCL = Gross Contamination Levels for ground water as defined in "Guidelines for Assessment and Corrective Action" North Carolina Underground Storage Tank Section, effective July 1, 2001
3. All units are in ug/L (Micrograms per Liter)
4. BQL = Below Quantitaion Limits
5. A zero in the 2L GWQS row indicates the 2L Standard is equal to the laboratory detection limit
6. A zero in the GCL row indicates a GCL has not been established
7. Shaded concentrations indicate exceedance of the 2L GWQS
8. Only compounds which were detected are shown on table. All other compounds were BQL

TABLE 8.2

SITE AS-4158

GROUNDWATER LABORATORY ANALYTICAL RESULTS - JULY 2005 TO DECEMBER 2007

EPA METHOD 624

Contaminant of Concern →		Benzene	Ethylbenzene	Methyl Tert Butyl Ether	Toluene	Total Xylenes	Xylene (total)
Well ID	Date						
2L GWQS		1	550	200	1000	530	530
GCL		5000	550000	200000	257500	87500	87500
USTAS4158-MW09	3/8/2007	**10.50**	BQL	BQL	BQL	5.10	BQL
USTAS4158-MW09	6/23/2007	**16.40**	0.58	BQL	BQL	BQL	4.50
USTAS4158-MW09	10/9/2007	**8.00**	BQL	BQL	0.37	BQL	4.60
USTAS4158-MW10	3/8/2007	BQL	BQL	BQL	BQL	BQL	BQL
USTAS4158-MW10	6/23/2007	BQL	BQL	BQL	BQL	BQL	BQL
USTAS4158-MW10	10/9/2007	BQL	BQL	BQL	BQL	BQL	BQL
USTAS4158-MW11	3/8/2007	**8.30**	BQL	4.80	BQL	BQL	BQL
USTAS4158-MW11	6/23/2007	**2.90**	BQL	13.40	BQL	BQL	BQL
USTAS4158-MW11	10/9/2007	**5.50**	BQL	20.40	0.34	BQL	BQL

Notes:
1. 2L GWQS = North Carolina groundwater quality standard 15A NCAC 2L .0202
2. GCL = Gross Contamination Levels for ground water as defined in "Guidelines for Assessment and Corrective Action" North Carolina Underground Storage Tank Section, effective July 1, 2001
3. All units are in ug/L (Micrograms per Liter)
4. BQL = Below Quantitaion Limits
5. A zero in the 2L GWQS row indicates the 2L Standard is equal to the laboratory detection limit
6. A zero in the GCL row indicates a GCL has not been established
7. Shaded concentrations indicate exceedance of the 2L GWQS
8. Only compounds which were detected are shown on table. All other compounds were BQL

TABLE 8.2

SITE AS-4158

GROUNDWATER LABORATORY ANALYTICAL RESULTS - JULY 2005 TO DECEMBER 2007

EPA METHOD 624

Contaminant of Concern →		Benzene	Ethylbenzene	Methyl Tert Butyl Ether	Toluene	Total Xylenes	Xylene (total)
Well ID	Date						
2L GWQS		1	550	200	1000	530	530
GCL		5000	550000	200000	257500	87500	87500
USTAS4158-MW13	3/8/2007	**88.30**	11.50	60.50	1.40	32.30	BQL
USTAS4158-MW13	6/23/2007	**9.20**	0.53	21.90	BQL	BQL	1.20
USTAS4158-MW13	10/9/2007	BQL	BQL	57.70	BQL	BQL	BQL
USTAS4158-MW14	3/8/2007	BQL	BQL	0.62	BQL	BQL	BQL
USTAS4158-MW14	6/23/2007	BQL	BQL	0.60	BQL	BQL	BQL
USTAS4158-MW14	10/9/2007	BQL	BQL	BQL	0.47	BQL	BQL
USTAS4158-MW15	3/8/2007	BQL	BQL	BQL	BQL	BQL	BQL
USTAS4158-MW15	6/23/2007	BQL	BQL	BQL	BQL	BQL	BQL
USTAS4158-MW15	10/9/2007	BQL	0.23	BQL	0.48	BQL	BQL

Notes:
1. 2L GWQS = North Carolina groundwater quality standard 15A NCAC 2L .0202
2. GCL = Gross Contamination Levels for ground water as defined in "Guidelines for Assessment and Corrective Action" North Carolina Underground Storage Tank Section, effective July 1, 2001
3. All units are in ug/L (Micrograms per Liter)
4. BQL = Below Quantitaion Limits
5. A zero in the 2L GWQS row indicates the 2L Standard is equal to the laboratory detection limit
6. A zero in the GCL row indicates a GCL has not been established
7. Shaded concentrations indicate exceedance of the 2L GWQS
8. Only compounds which were detected are shown on table. All other compounds were BQL

TABLE 8.2

SITE AS-4158

GROUNDWATER LABORATORY ANALYTICAL RESULTS - JULY 2005 TO DECEMBER 2007

EPA METHOD 624

Contaminant of Concern →		Benzene	Ethylbenzene	Methyl Tert Butyl Ether	Toluene	Total Xylenes	Xylene (total)
Well ID	Date						
2L GWQS		1	550	200	1000	530	530
GCL		5000	550000	200000	257500	87500	87500
USTAS4158-MW17	3/8/2007	BQL	BQL	23.10	BQL	BQL	BQL
USTAS4158-MW17	6/23/2007	BQL	BQL	9.00	BQL	BQL	BQL
USTAS4158-MW17	10/9/2007	BQL	BQL	BQL	BQL	BQL	BQL

Notes:
1. 2L GWQS = North Carolina groundwater quality standard 15A NCAC 2L .0202
2. GCL = Gross Contamination Levels for ground water as defined in "Guidelines for Assessment and Corrective Action" North Carolina Underground Storage Tank Section, effective July 1, 2001
3. All units are in ug/L (Micrograms per Liter)
4. BQL = Below Quantitaion Limits
5. A zero in the 2L GWQS row indicates the 2L Standard is equal to the laboratory detection limit
6. A zero in the GCL row indicates a GCL has not been established
7. Shaded concentrations indicate exceedance of the 2L GWQS
8. Only compounds which were detected are shown on table. All other compounds were BQL

TABLE 8.3

SITE AS-4158

GROUNDWATER LABORATORY ANALYTICAL RESULTS - JULY 2005 TO DECEMBER 2007

EPA METHOD 625

Contaminant of Concern →		1-Methylnaphthalene	Acenaphthene	Fluorene	Naphthalene
Well ID	Date				
2L GWQS		14	80	280	21
GCL		12500	2120	950	15500
USTAS4158-MW01	3/8/2007	BQL	BQL	BQL	BQL
USTAS4158-MW01	6/23/2007	BQL	BQL	BQL	BQL
USTAS4158-MW01	10/9/2007	BQL	BQL	BQL	BQL
USTAS4158-MW07	3/8/2007	BQL	BQL	BQL	BQL
USTAS4158-MW07	6/23/2007	BQL	BQL	BQL	BQL
USTAS4158-MW07	10/9/2007	BQL	BQL	BQL	BQL
USTAS4158-MW07	10/9/2007	BQL	BQL	BQL	BQL
USTAS4158-MW08	3/8/2007	BQL	BQL	BQL	BQL
USTAS4158-MW08	6/28/2007	BQL	BQL	BQL	BQL
USTAS4158-MW08	10/9/2007	BQL	BQL	BQL	BQL

Notes:
1. 2L GWQS = North Carolina groundwater quality standard 15A NCAC 2L .0202
2. GCL = Gross Contamination Levels for ground water as defined in "Guidelines for Assessment and Corrective Action" North Carolina Underground Storage Tank Section, effective July 1, 2001
3. All units are in ug/L (Micrograms per Liter)
4. BQL = Below Quantitaion Limits
5. A zero in the 2L GWQS row indicates the 2L Standard is equal to the laboratory detection limit
6. A zero in the GCL row indicates a GCL has not been established
7. Shaded concentrations indicate exceedance of the 2L GWQS
8. Only compounds which were detected are shown on table. All other compounds were BQL

TABLE 8.3

SITE AS-4158

GROUNDWATER LABORATORY ANALYTICAL RESULTS - JULY 2005 TO DECEMBER 2007

EPA METHOD 625

Contaminant of Concern →		1-Methylnaphthalene	Acenaphthene	Fluorene	Naphthalene
Well ID	Date				
2L GWQS		14	80	280	21
GCL		12500	2120	950	15500
USTAS4158-MW09	3/8/2007	2.40	1.90	1.40	1.70
USTAS4158-MW09	6/23/2007	5.80	2.70	2.40	3.80
USTAS4158-MW09	10/9/2007	BQL	BQL	BQL	BQL
USTAS4158-MW10	3/8/2007	BQL	BQL	BQL	BQL
USTAS4158-MW10	6/23/2007	BQL	BQL	BQL	BQL
USTAS4158-MW10	10/9/2007	BQL	BQL	BQL	BQL
USTAS4158-MW11	3/8/2007	BQL	BQL	BQL	BQL
USTAS4158-MW11	6/28/2007	BQL	BQL	BQL	BQL
USTAS4158-MW11	10/9/2007	BQL	BQL	BQL	BQL

Notes:
1. 2L GWQS = North Carolina groundwater quality standard 15A NCAC 2L .0202
2. GCL = Gross Contamination Levels for ground water as defined in "Guidelines for Assessment and Corrective Action" North Carolina Underground Storage Tank Section, effective July 1, 2001
3. All units are in ug/L (Micrograms per Liter)
4. BQL = Below Quantitaion Limits
5. A zero in the 2L GWQS row indicates the 2L Standard is equal to the laboratory detection limit
6. A zero in the GCL row indicates a GCL has not been established
7. Shaded concentrations indicate exceedance of the 2L GWQS
8. Only compounds which were detected are shown on table. All other compounds were BQL

TABLE 8.3

SITE AS-4158

GROUNDWATER LABORATORY ANALYTICAL RESULTS - JULY 2005 TO DECEMBER 2007

EPA METHOD 625

Contaminant of Concern →		1-Methylnaphthalene	Acenaphthene	Fluorene	Naphthalene
Well ID	Date				
2L GWQS		14	80	280	21
GCL		12500	2120	950	15500
USTAS4158-MW13	3/8/2007	BQL	BQL	BQL	1.30
USTAS4158-MW13	6/23/2007	BQL	BQL	BQL	BQL
USTAS4158-MW13	10/9/2007	BQL	BQL	BQL	BQL
USTAS4158-MW14	3/8/2007	BQL	BQL	BQL	BQL
USTAS4158-MW14	6/23/2007	BQL	BQL	BQL	BQL
USTAS4158-MW14	10/9/2007	BQL	BQL	BQL	BQL
USTAS4158-MW15	3/8/2007	BQL	BQL	BQL	BQL
USTAS4158-MW15	6/23/2007	BQL	BQL	BQL	BQL
USTAS4158-MW15	10/9/2007	BQL	BQL	BQL	BQL

Notes:
1. 2L GWQS = North Carolina groundwater quality standard 15A NCAC 2L .0202
2. GCL = Gross Contamination Levels for ground water as defined in "Guidelines for Assessment and Corrective Action" North Carolina Underground Storage Tank Section, effective July 1, 2001
3. All units are in ug/L (Micrograms per Liter)
4. BQL = Below Quantitaion Limits
5. A zero in the 2L GWQS row indicates the 2L Standard is equal to the laboratory detection limit
6. A zero in the GCL row indicates a GCL has not been established
7. Shaded concentrations indicate exceedance of the 2L GWQS
8. Only compounds which were detected are shown on table. All other compounds were BQL

TABLE 8.3

SITE AS-4158

GROUNDWATER LABORATORY ANALYTICAL RESULTS - JULY 2005 TO DECEMBER 2007

EPA METHOD 625

Contaminant of Concern →		1-Methylnaphthalene	Acenaphthene	Fluorene	Naphthalene
Well ID	Date				
2L GWQS		14	80	280	21
GCL		12500	2120	950	15500
USTAS4158-MW17	3/8/2007	BQL	BQL	BQL	BQL
USTAS4158-MW17	6/23/2007	BQL	BQL	BQL	BQL
USTAS4158-MW17	10/9/2007	BQL	BQL	BQL	BQL

Notes:
1. 2L GWQS = North Carolina groundwater quality standard 15A NCAC 2L .0202
2. GCL = Gross Contamination Levels for ground water as defined in "Guidelines for Assessment and Corrective Action" North Carolina Underground Storage Tank Section, effective July 1, 2001
3. All units are in ug/L (Micrograms per Liter)
4. BQL = Below Quantitaion Limits
5. A zero in the 2L GWQS row indicates the 2L Standard is equal to the laboratory detection limit
6. A zero in the GCL row indicates a GCL has not been established
7. Shaded concentrations indicate exceedance of the 2L GWQS
8. Only compounds which were detected are shown on table. All other compounds were BQL

TABLE 8.4

SITE AS-4158

GROUNDWATER LABORATORY ANALYTICAL RESULTS - JULY 2005 TO DECEMBER 2007

EPA METHOD 6010B

Contaminant of Concern →		
Well ID	**Date**	Lead
2L GWQS		15
GCL		15000
USTAS4158-MW01	3/8/2007	BQL
USTAS4158-MW01	6/23/2007	6.70
USTAS4158-MW01	10/9/2007	9.40
USTAS4158-MW07	3/8/2007	BQL
USTAS4158-MW07	6/23/2007	**19.80**
USTAS4158-MW07	10/9/2007	**67.30**
USTAS4158-MW07	10/9/2007	BQL
USTAS4158-MW08	3/8/2007	BQL
USTAS4158-MW08	6/23/2007	6.40
USTAS4158-MW08	10/9/2007	3.80

Notes:
1. 2L GWQS = North Carolina groundwater quality standard 15A NCAC 2L .0202
2. GCL = Gross Contamination Levels for ground water as defined in "Guidelines for Assessment and Corrective Action" North Carolina Underground Storage Tank Section, effective July 1, 2001
3. All units are in ug/L (Micrograms per Liter)
4. BQL = Below Quantitaion Limits
5. A zero in the 2L GWQS row indicates the 2L Standard is equal to the laboratory detection limit
6. A zero in the GCL row indicates a GCL has not been established
7. Shaded concentrations indicate exceedance of the 2L GWQS
8. Only compounds which were detected are shown on table. All other compounds were BQL

TABLE 8.4

SITE AS-4158

GROUNDWATER LABORATORY ANALYTICAL RESULTS - JULY 2005 TO DECEMBER 2007

EPA METHOD 6010B

Contaminant of Concern →		
Well ID	**Date**	Lead
2L GWQS		15
GCL		15000
USTAS4158-MW09	3/8/2007	BQL
USTAS4158-MW09	6/23/2007	BQL
USTAS4158-MW09	10/9/2007	BQL
USTAS4158-MW10	3/8/2007	BQL
USTAS4158-MW10	6/23/2007	13.70
USTAS4158-MW10	10/9/2007	6.60
USTAS4158-MW11	3/8/2007	BQL
USTAS4158-MW11	6/23/2007	BQL
USTAS4158-MW11	10/9/2007	BQL

Notes:
1. 2L GWQS = North Carolina groundwater quality standard 15A NCAC 2L .0202
2. GCL = Gross Contamination Levels for ground water as defined in "Guidelines for Assessment and Corrective Action" North Carolina Underground Storage Tank Section, effective July 1, 2001
3. All units are in ug/L (Micrograms per Liter)
4. BQL = Below Quantitaion Limits
5. A zero in the 2L GWQS row indicates the 2L Standard is equal to the laboratory detection limit
6. A zero in the GCL row indicates a GCL has not been established
7. Shaded concentrations indicate exceedance of the 2L GWQS
8. Only compounds which were detected are shown on table. All other compounds were BQL

TABLE 8.4

SITE AS-4158

GROUNDWATER LABORATORY ANALYTICAL RESULTS - JULY 2005 TO DECEMBER 2007

EPA METHOD 6010B

Contaminant of Concern →		
Well ID	**Date**	**Lead**
	2L GWQS	15
	GCL	15000
USTAS4158-MW13	3/8/2007	BQL
USTAS4158-MW13	6/23/2007	5.60
USTAS4158-MW13	10/9/2007	6.70
USTAS4158-MW14	3/8/2007	BQL
USTAS4158-MW14	6/23/2007	**18.00**
USTAS4158-MW14	10/9/2007	**17.60**
USTAS4158-MW15	3/8/2007	BQL
USTAS4158-MW15	6/23/2007	6.40
USTAS4158-MW15	10/9/2007	7.00

Notes:
1. 2L GWQS = North Carolina groundwater quality standard 15A NCAC 2L .0202
2. GCL = Gross Contamination Levels for ground water as defined in "Guidelines for Assessment and Corrective Action" North Carolina Underground Storage Tank Section, effective July 1, 2001
3. All units are in ug/L (Micrograms per Liter)
4. BQL = Below Quantitaion Limits
5. A zero in the 2L GWQS row indicates the 2L Standard is equal to the laboratory detection limit
6. A zero in the GCL row indicates a GCL has not been established
7. Shaded concentrations indicate exceedance of the 2L GWQS
8. Only compounds which were detected are shown on table. All other compounds were BQL

TABLE 8.4

SITE AS-4158

GROUNDWATER LABORATORY ANALYTICAL RESULTS - JULY 2005 TO DECEMBER 2007

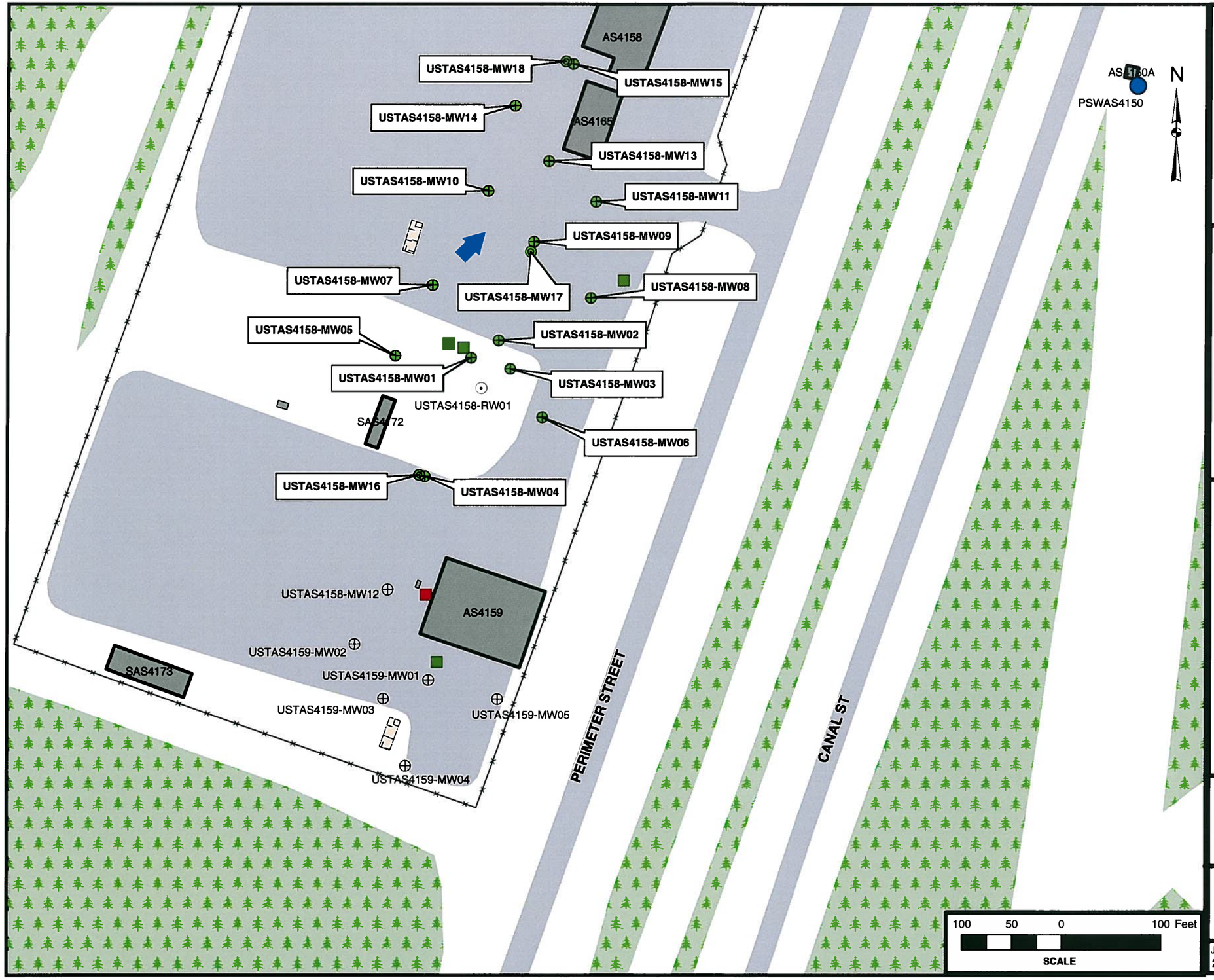
EPA METHOD 6010B

Contaminant of Concern →		
Well ID	**Date**	Lead
2L GWQS		15
GCL		15000
USTAS4158-MW17	3/8/2007	BQL
USTAS4158-MW17	6/23/2007	2.90
USTAS4158-MW17	10/9/2007	BQL

Notes:
1. 2L GWQS = North Carolina groundwater quality standard 15A NCAC 2L .0202
2. GCL = Gross Contamination Levels for ground water as defined in "Guidelines for Assessment and Corrective Action" North Carolina Underground Storage Tank Section, effective July 1, 2001
3. All units are in ug/L (Micrograms per Liter)
4. BQL = Below Quantitaion Limits
5. A zero in the 2L GWQS row indicates the 2L Standard is equal to the laboratory detection limit
6. A zero in the GCL row indicates a GCL has not been established
7. Shaded concentrations indicate exceedance of the 2L GWQS
8. Only compounds which were detected are shown on table. All other compounds were BQL

MCB CAMP LEJEUNE
UST MANAGEMENT PROGRAM
CALENDAR YEAR 2007

NAVFAC
Naval Facilities Engineering Command



LEGEND

Monitoring Wells
- Type I
- Type II
- Type III
- Pumping Well
- Unknown Well Type
- Water Supply Wells
- Above Ground Storage Tank
- Underground Storage Tank
- Railroad Tracks

Walls and Fences
- FENCE
- GATE
- WALL

Free Product
- Free Product Detected
- No Measurable Thickness
- Free Product Plume
- Buildings and Structures
- Demolished Structures
- Oil/Water Separators
- Slabs
- Roads
- Driveways
- Parking Lots
- Surface Water Bodies
- Creeks and Streams
- Historical Groundwater Flow Direction

Vegetation Cover
- Forestland
- Scrubland
- Wetland

Airfield Pavement
- HELIPAD
- RAMP
- RUNWAY
- SHLDR_OVERRUN
- TAXIWAY

NOTES

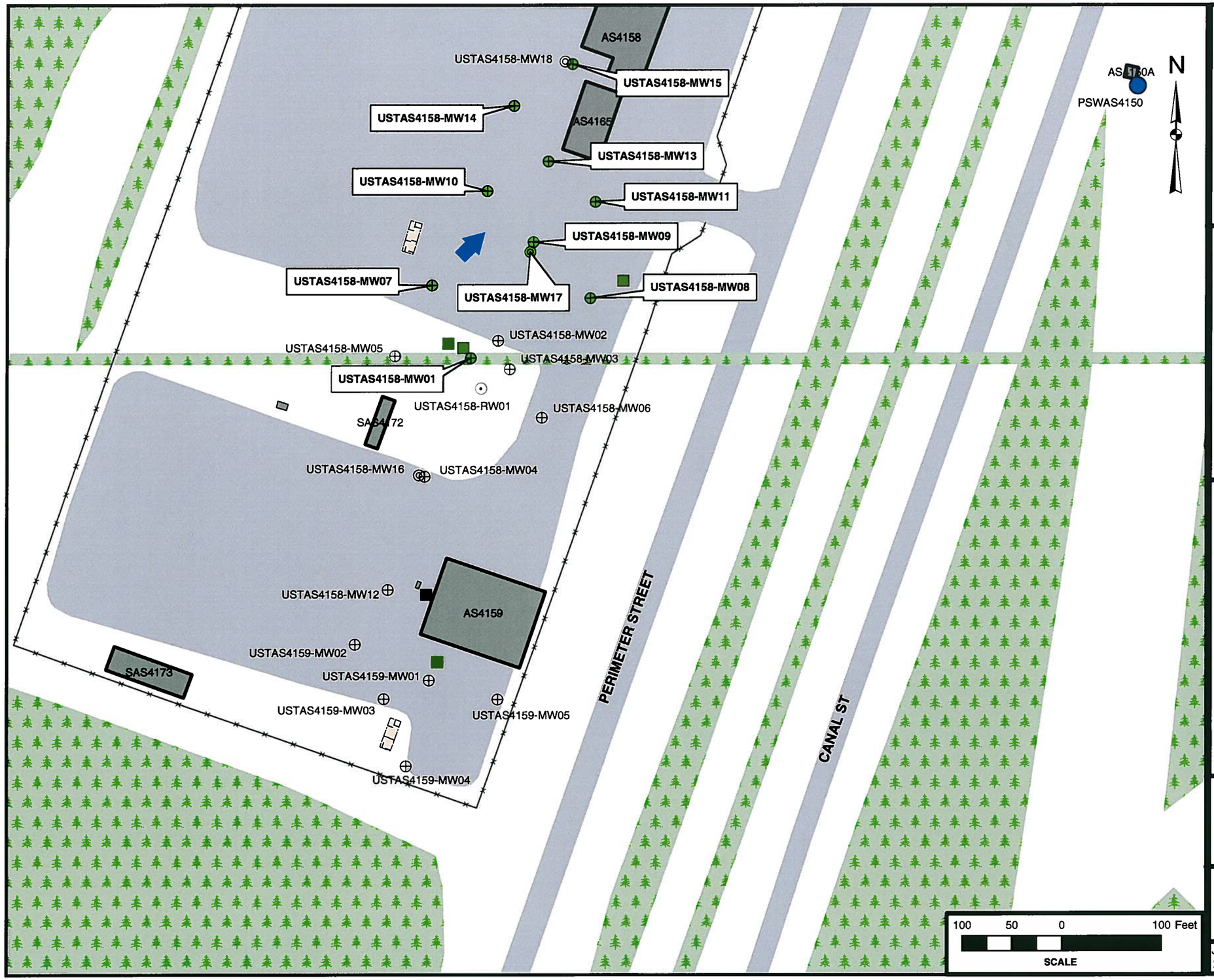
1. Free product was not detected at this site in any of the wells gauged during this monitoring event.

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SITE AS-4158
FREE PRODUCT PLUME MAP
FIRST QUARTER 2007

FIGURE **8.1A**

Job No.:	Date:	Scale:	Drawn By:	Checked By:
207-002	DEC 2007	AS SHOWN	SAC	MEM



MCB CAMP LEJEUNE
UST MANAGEMENT PROGRAM
CALENDAR YEAR 2007

NAVFAC
Naval Facilities Engineering Command

LEGEND

Monitoring Wells
- Type I
- Type II
- Type III
- Pumping Well
- Unknown Well Type
- Water Supply Wells
- Above Ground Storage Tank
- Underground Storage Tank
- Railroad Tracks

Walls and Fences
- FENCE
- GATE
- WALL

Free Product
- Free Product Detected
- No Measurable Thickness
- Free Product Plume
- Buildings and Structures
- Demolished Structures
- Oil/Water Separators
- Slabs
- Roads
- Driveways
- Parking Lots
- Surface Water Bodies
- Creeks and Streams
- Historical Groundwater Flow Direction

Vegetation Cover
- Forestland
- Scrubland
- Wetland

Airfield Pavement
- HELIPAD
- RAMP
- RUNWAY
- SHLDR_OVERRUN
- TAXIWAY

NOTES

1. Free product was not detected at this site in any of the wells gauged during this monitoring event.

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Engineers and Scientists

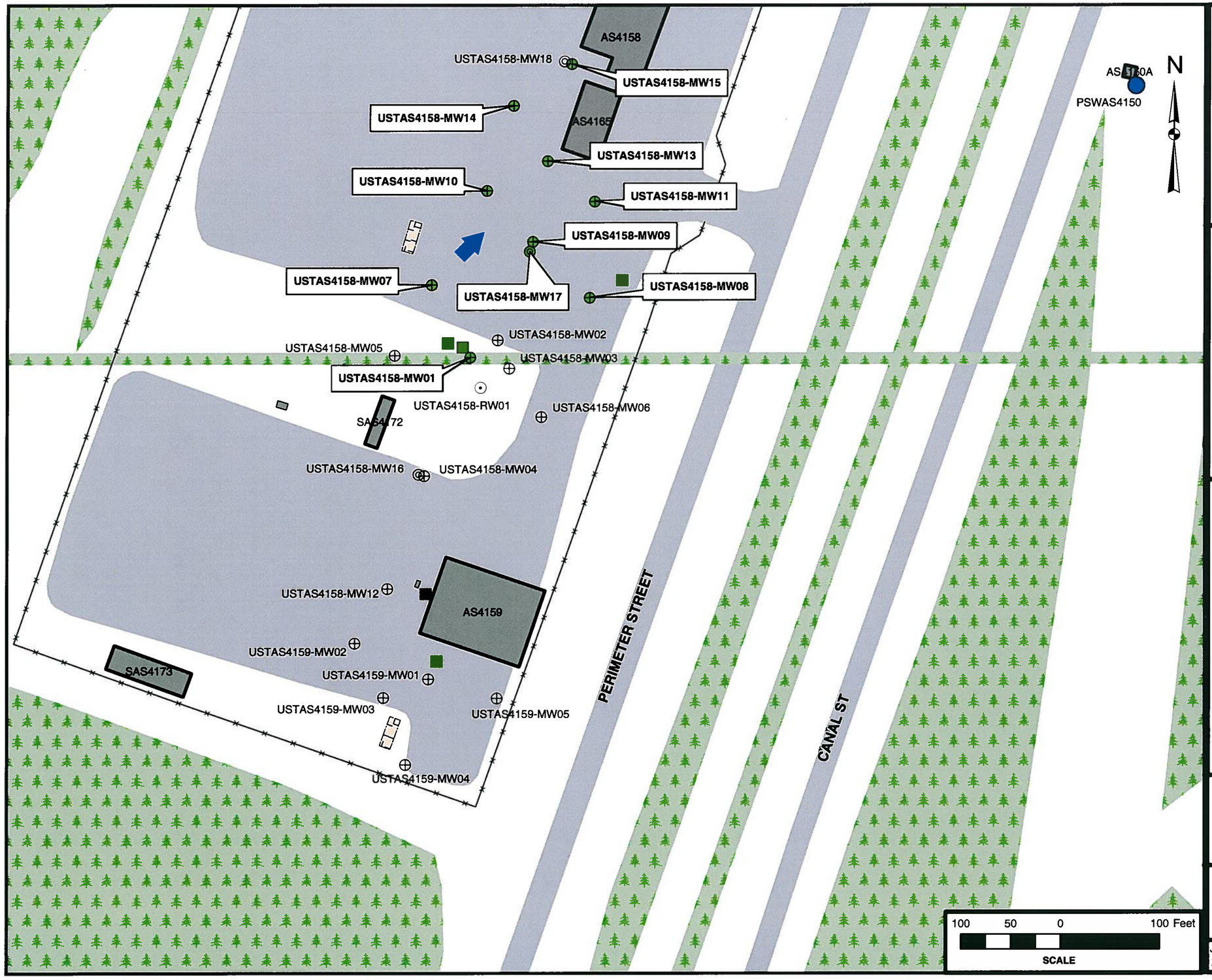
SITE AS-4158
FREE PRODUCT PLUME MAP
SECOND QUARTER 2007

FIGURE **8.1B**

Job No.:	Date:	Scale:	Drawn By:	Checked By:
207-002	JAN 2008	AS SHOWN	SAC	MEM

MCB CAMP LEJEUNE
UST MANAGEMENT PROGRAM
CALENDAR YEAR 2007

NAVFAC
Naval Facilities Engineering Command



LEGEND

Monitoring Wells
- Type I
- Type II
- Type III
- Pumping Well
- Unknown Well Type
- Water Supply Wells
- Above Ground Storage Tank
- Underground Storage Tank
- Railroad Tracks

Walls and Fences
- FENCE
- GATE
- WALL

Free Product
- Free Product Detected
- No Measurable Thickness
- Free Product Plume
- Buildings and Structures
- Demolished Structures
- Oil/Water Separators
- Slabs
- Roads
- Driveways
- Parking Lots
- Surface Water Bodies
- Creeks and Streams
- Historical Groundwater Flow Direction

Vegetation Cover
- Forestland
- Scrubland
- Wetland

Airfield Pavement
- HELIPAD
- RAMP
- RUNWAY
- SHLDR_OVERRUN
- TAXIWAY

NOTES

1. Free product was not detected at this site in any of the wells gauged during this monitoring event.

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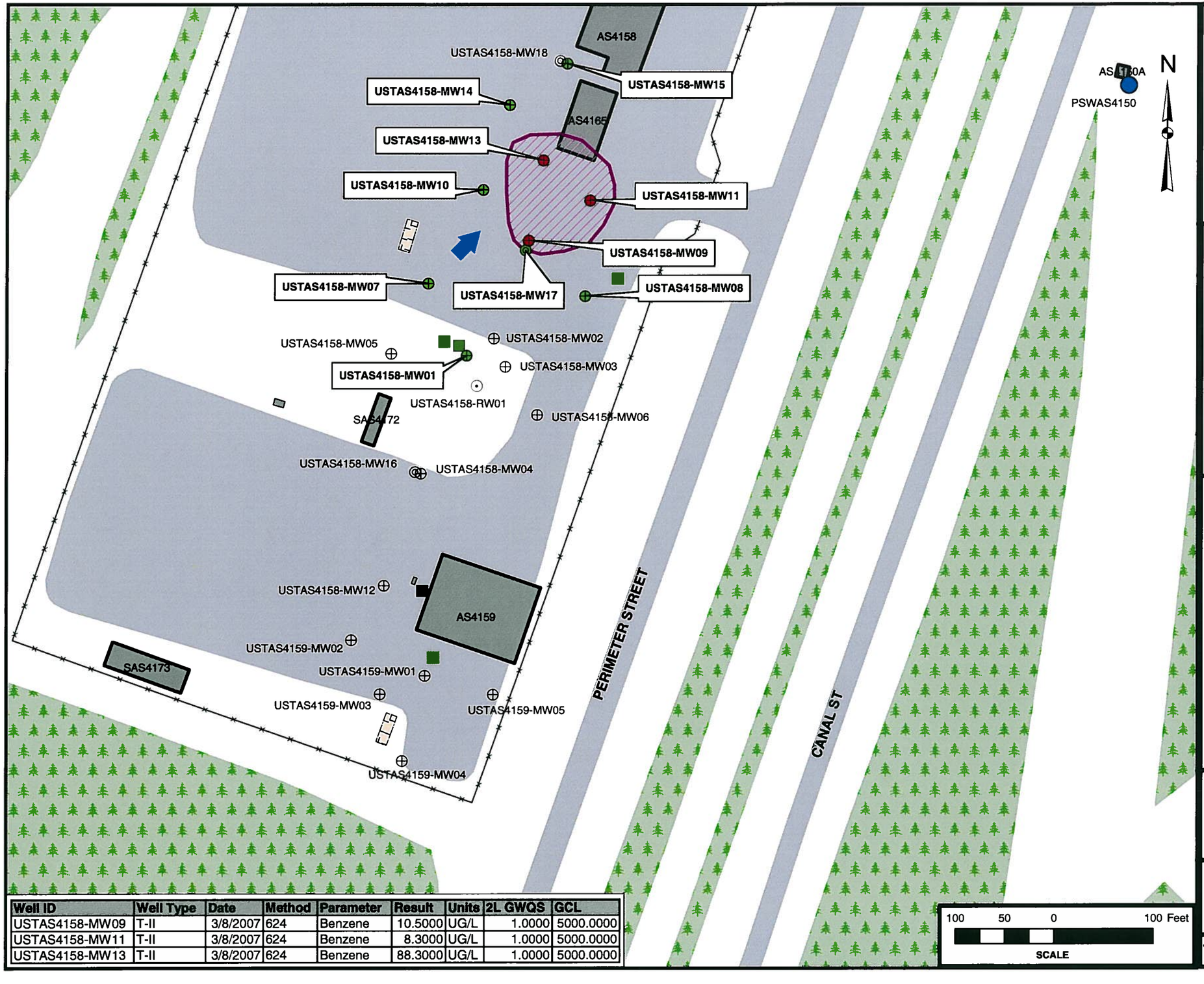
SITE AS-4158
FREE PRODUCT PLUME MAP
FOURTH QUARTER 2007

FIGURE **8.1C**

Job No.:	Date:	Scale:	Drawn By:	Checked By:
207-002	JAN 2008	AS SHOWN	SAC	MEM

MCB CAMP LEJEUNE
UST MANAGEMENT PROGRAM
CALENDAR YEAR 2007

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Naval Facilities Engineering Command



LEGEND

Monitoring Wells
- Type I
- Type II
- Type III
- Pumping Well
- Unknown Well Type
- Water Supply Wells
- Above Ground Storage Tank
- Underground Storage Tank
- Railroad Tracks

Walls and Fences
- FENCE
- GATE
- WALL

Analytical Results
- Free Product Detected
- 2L Non-Compliant
- 2L Compliant
- EPA 624 Plume
- Buildings and Structures
- Demolished Structures
- Oil/Water Separators
- Slabs
- Roads
- Driveways
- Parking Lots
- Surface Water Bodies
- Creeks and Streams
- Historical Groundwater Flow Direction

Vegetation Cover
- Forestland
- Scrubland
- Wetland

Airfield Pavement
- HELIPAD
- RAMP
- RUNWAY
- SHLDR_OVERRUN
- TAXIWAY

NOTES

1. 2L Standard refers to North Carolina Groundwater Quality Standard 15A NCAC 2L.0202.
2. GCL refers to Gross Contaminant Level as defined in "Guidelines for the Assessment and Corrective Action" North Carolina Underground Storage Tank Section, effective July 1, 2001.
3. A 2L Standard of "0.00" implies a standard has not yet been established. According to NCAC T15:02L, any compound found above laboratory detection limits is considered noncompliant unless otherwise specified by the NCDENR.

Well ID	Well Type	Date	Method	Parameter	Result	Units	2L GWQS	GCL
USTAS4158-MW09	T-II	3/8/2007	624	Benzene	10.5000	UG/L	1.0000	5000.0000
USTAS4158-MW11	T-II	3/8/2007	624	Benzene	8.3000	UG/L	1.0000	5000.0000
USTAS4158-MW13	T-II	3/8/2007	624	Benzene	88.3000	UG/L	1.0000	5000.0000

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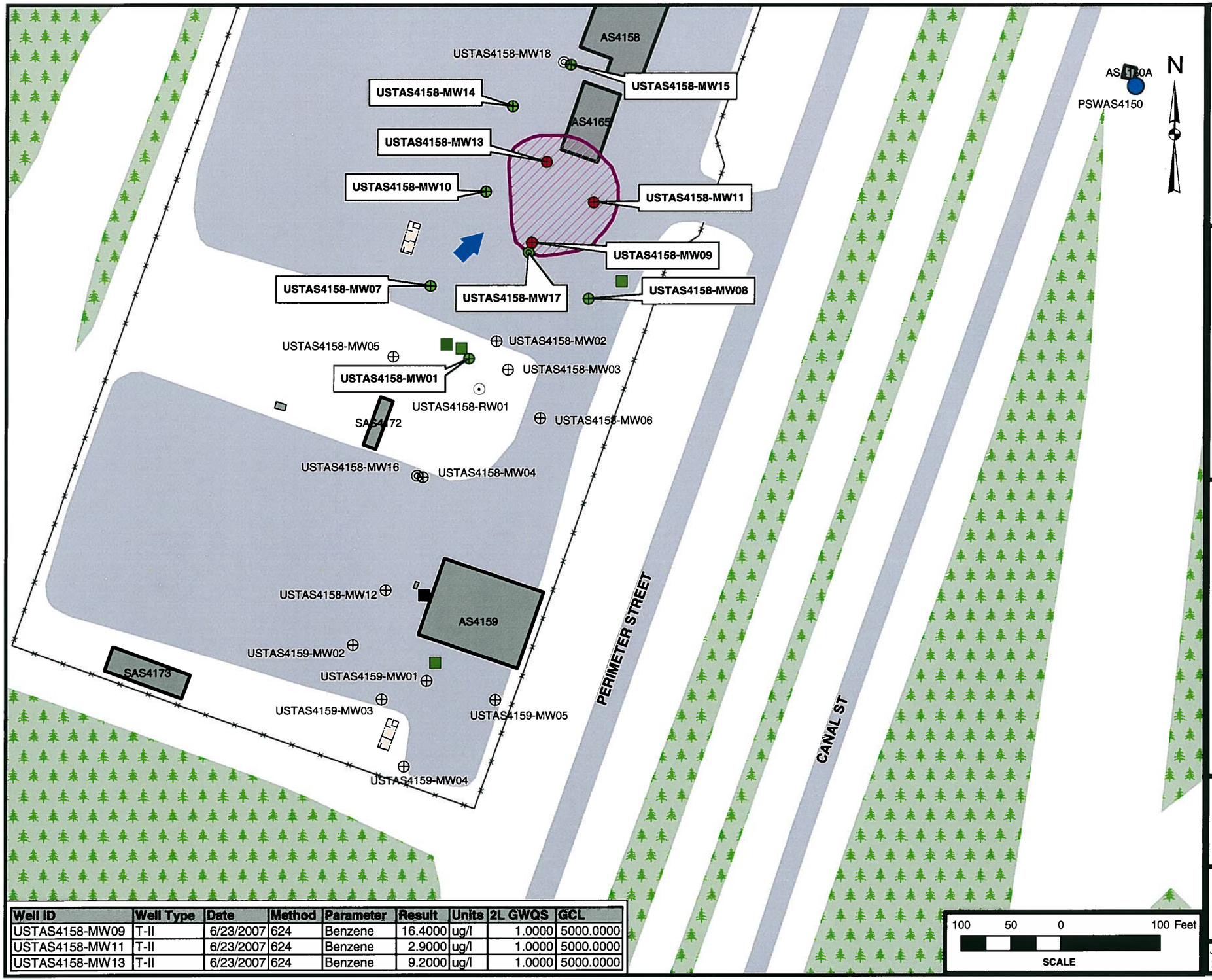
SITE AS-4158
EPA METHOD 624 COLORIMETRY AND PLUME IN EXCESS OF 2L FIRST QUARTER 2007

FIGURE **8.2A**

Job No.:	Date:	Scale:	Drawn By:	Checked By:
207-002	JAN 2008	AS SHOWN	SAC	MEM

MCB CAMP LEJEUNE
UST MANAGEMENT PROGRAM
CALENDAR YEAR 2007

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LEGEND

Monitoring Wells
- Type I
- Type II
- Type III
- Pumping Well
- Unknown Well Type
- Water Supply Wells
- Above Ground Storage Tank
- Underground Storage Tank
- Railroad Tracks

Walls and Fences
- FENCE
- GATE
- WALL

Analytical Results
- Free Product Detected
- 2L Non-Compliant
- 2L Compliant
- EPA 624 Plume
- Buildings and Structures
- Demolished Structures
- Oil/Water Separators
- Slabs
- Roads
- Driveways
- Parking Lots
- Surface Water Bodies
- Creeks and Streams
- Historical Groundwater Flow Direction

Vegetation Cover
- Forestland
- Scrubland
- Wetland

Airfield Pavement
- HELIPAD
- RAMP
- RUNWAY
- SHLDR_OVERRUN
- TAXIWAY

NOTES

1. 2L Standard refers to North Carolina Groundwater Quality Standard 15A NCAC 2L.0202.
2. GCL refers to Gross Contaminant Level as defined in "Guidelines for the Assessment and Corrective Action" North Carolina Underground Storage Tank Section, effective July 1, 2001.
3. A 2L Standard of "0.00" implies a standard has not yet been established. According to NCAC T15:02L, any compound found above laboratory detection limits is considered noncompliant unless otherwise specified by the NCDENR.

Well ID	Well Type	Date	Method	Parameter	Result	Units	2L GWQS	GCL
USTAS4158-MW09	T-II	6/23/2007	624	Benzene	16.4000	ug/l	1.0000	5000.0000
USTAS4158-MW11	T-II	6/23/2007	624	Benzene	2.9000	ug/l	1.0000	5000.0000
USTAS4158-MW13	T-II	6/23/2007	624	Benzene	9.2000	ug/l	1.0000	5000.0000

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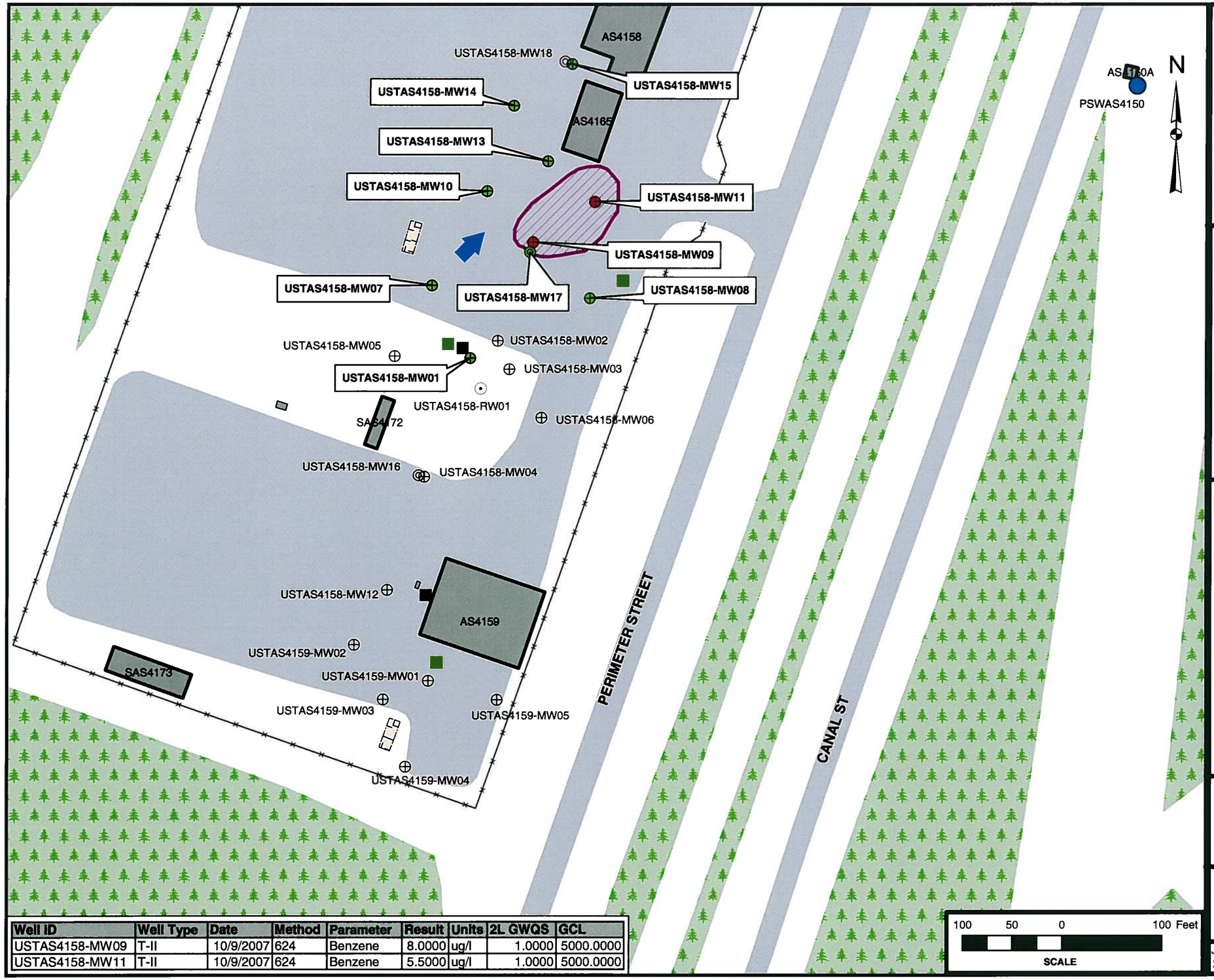
SITE AS-4158
EPA METHOD 624 COLORIMETRY AND PLUME IN EXCESS OF 2L SECOND QUARTER 2007

FIGURE 8.2B

Job No.:	Date:	Scale:	Drawn By:	Checked By:
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MCB CAMP LEJEUNE
UST MANAGEMENT PROGRAM
CALENDAR YEAR 2007

NAVFAC
Naval Facilities Engineering Command



LEGEND

Monitoring Wells
- Type I
- Type II
- Type III
- Pumping Well
- Unknown Well Type
- Water Supply Wells
- Above Ground Storage Tank
- Underground Storage Tank
- Railroad Tracks

Walls and Fences
- FENCE
- GATE
- WALL

Analytical Results
- Free Product Detected
- 2L Non-Compliant
- 2L Compliant
- EPA 624 Plume
- Buildings and Structures
- Demolished Structures
- Oil/Water Separators
- Slabs
- Roads
- Driveways
- Parking Lots
- Surface Water Bodies
- Creeks and Streams
- Historical Groundwater Flow Direction

Vegetation Cover
- Forestland
- Scrubland
- Wetland

Airfield Pavement
- HELIPAD
- RAMP
- RUNWAY
- SHLDR_OVERRUN
- TAXIWAY

NOTES

1. 2L Standard refers to North Carolina Groundwater Quality Standard 15A NCAC 2L.0202.
2. GCL refers to Gross Contaminant Level as defined in "Guidelines for the Assessment and Corrective Action" North Carolina Underground Storage Tank Section, effective July 1, 2001.
3. A 2L Standard of "0.00" implies a standard has not yet been established. According to NCAC T15:02L, any compound found above laboratory detection limits is considered noncompliant unless otherwise specified by the NCDENR.

Well ID	Well Type	Date	Method	Parameter	Result	Units	2L GWQS	GCL
USTAS4158-MW09	T-II	10/9/2007	624	Benzene	8.0000	ug/l	1.0000	5000.0000
USTAS4158-MW11	T-II	10/9/2007	624	Benzene	5.5000	ug/l	1.0000	5000.0000

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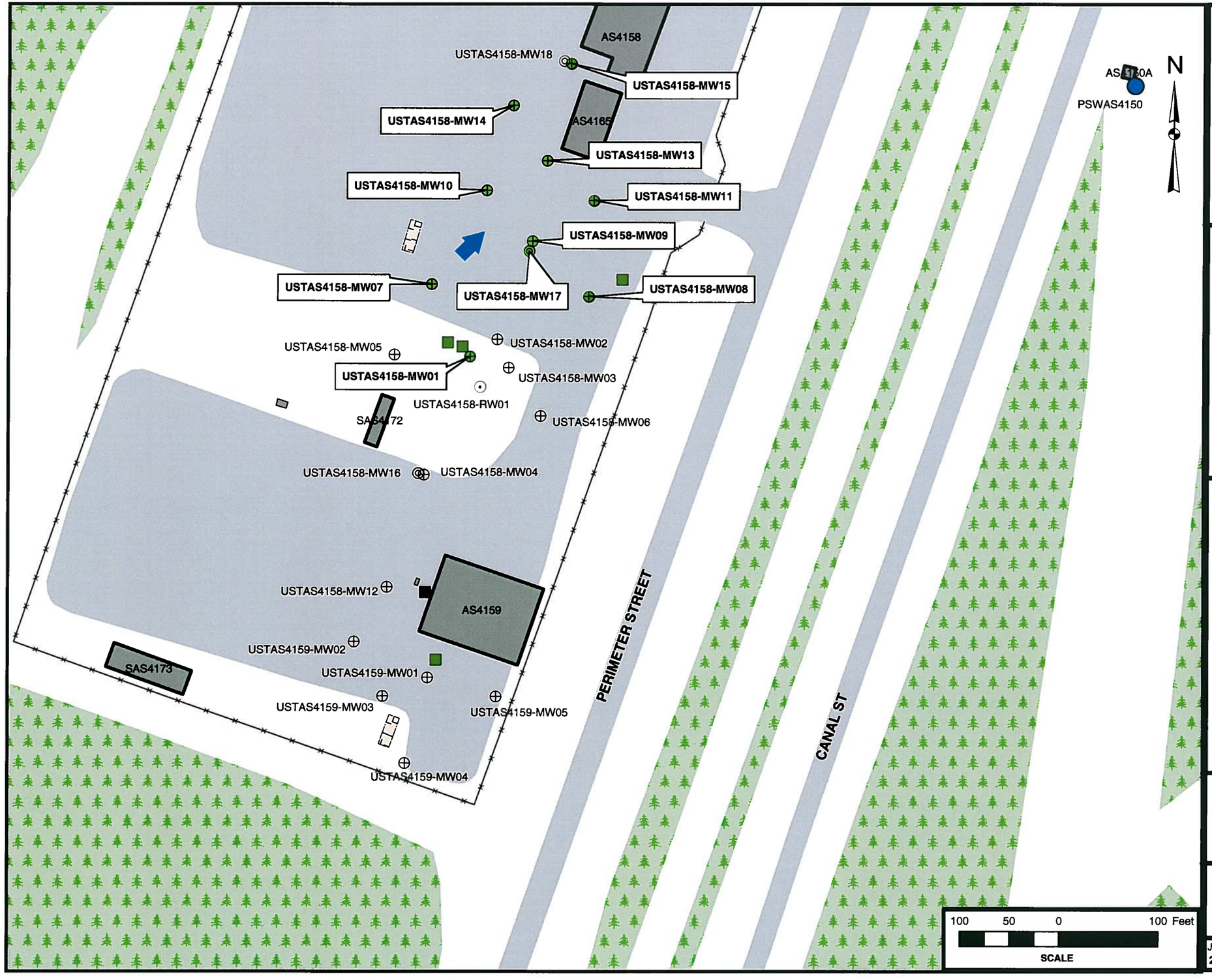
SITE AS-4158
EPA METHOD 624 COLORIMETRY AND PLUME IN EXCESS OF 2L FOURTH QUARTER 2007

FIGURE
8.2C

Job No.:	Date:	Scale:	Drawn By:	Checked By:
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MCB CAMP LEJEUNE
UST MANAGEMENT PROGRAM
CALENDAR YEAR 2007

NAVFAC
Naval Facilities Engineering Command



LEGEND

Monitoring Wells
- Type I
- Type II
- Type III
- Pumping Well
- Unknown Well Type
- Water Supply Wells
- Above Ground Storage Tank
- Underground Storage Tank
- Railroad Tracks

Walls and Fences
- FENCE
- GATE
- WALL

Analytical Results
- Free Product Detected
- 2L Non-Compliant
- 2L Compliant
- EPA 625 Plume
- Buildings and Structures
- Demolished Structures
- Oil/Water Separators
- Slabs
- Roads
- Driveways
- Parking Lots
- Surface Water Bodies
- Creeks and Streams
- Historical Groundwater Flow Direction

Vegetation Cover
- Forestland
- Scrubland
- Wetland

Airfield Pavement
- HELIPAD
- RAMP
- RUNWAY
- SHLDR_OVERRUN
- TAXIWAY

NOTES

1. No EPA Method 625 compounds were detected above the 2L GWQS for any wells sampled during this monitoring event.

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SITE AS-4158
EPA METHOD 625 COLORIMETRY AND PLUME IN EXCESS OF 2L
FIRST QUARTER 2007

FIGURE **8.3A**

Job No.:	Date:	Scale:	Drawn By:	Checked By:
207-002	DEC 2007	AS SHOWN	SAC	MEM

MCB CAMP LEJEUNE
UST MANAGEMENT PROGRAM
CALENDAR YEAR 2007

NAVFAC
Naval Facilities Engineering Command

N

AS4158
AS4165
AS4159
AS4172
SAS4173
AS4160A
PSWAS4150

USTAS4158-MW18
USTAS4158-MW15
USTAS4158-MW14
USTAS4158-MW13
USTAS4158-MW10
USTAS4158-MW11
USTAS4158-MW09
USTAS4158-MW07
USTAS4158-MW17
USTAS4158-MW08
USTAS4158-MW05
USTAS4158-MW02
USTAS4158-MW01
USTAS4158-MW03
USTAS4158-RW01
USTAS4158-MW06
USTAS4158-MW16
USTAS4158-MW04
USTAS4158-MW12
USTAS4159-MW02
USTAS4159-MW01
USTAS4159-MW03
USTAS4159-MW05
USTAS4159-MW04

PERIMETER STREET
CANAL ST

LEGEND

Monitoring Wells
- Type I
- Type II
- Type III
- Pumping Well
- Unknown Well Type
- Water Supply Wells
- Above Ground Storage Tank
- Underground Storage Tank
- Railroad Tracks

Walls and Fences
- FENCE
- GATE
- WALL

Analytical Results
- Free Product Detected
- 2L Non-Compliant
- 2L Compliant
- EPA 625 Plume
- Buildings and Structures
- Demolished Structures
- Oil/Water Separators
- Slabs
- Roads
- Driveways
- Parking Lots
- Surface Water Bodies
- Creeks and Streams
- Historical Groundwater Flow Direction

Vegetation Cover
- Forestland
- Scrubland
- Wetland

Airfield Pavement
- HELIPAD
- RAMP
- RUNWAY
- SHLDR_OVERRUN
- TAXIWAY

NOTES

1. No EPA Method 625 compounds were detected above the 2L GWQS for any wells sampled during this monitoring event.

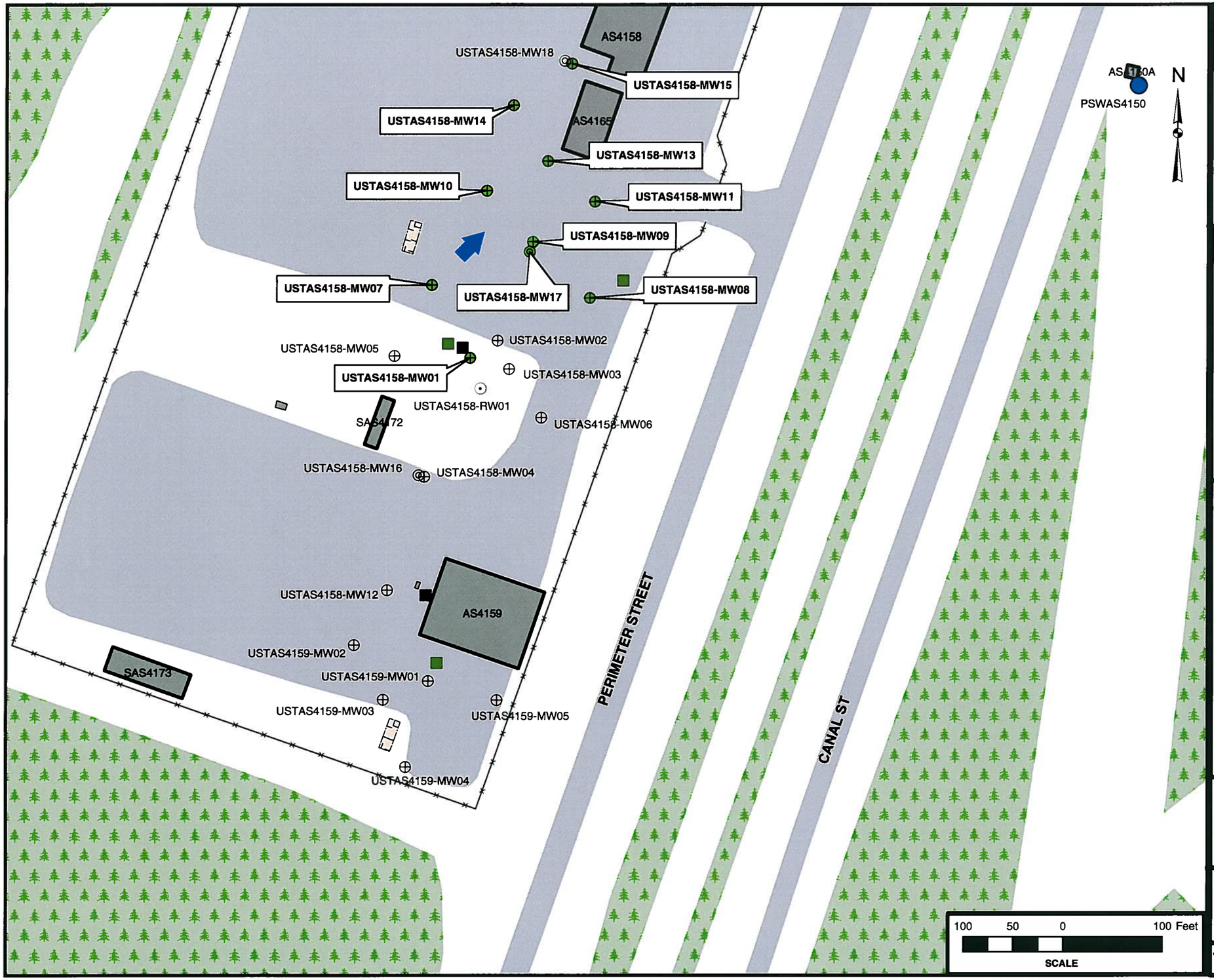
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SCALE

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SITE AS-4158
EPA METHOD 625 COLORIMETRY AND PLUME IN EXCESS OF 2L
SECOND QUARTER 2007

FIGURE
8.3B

Job No.:	Date:	Scale:	Drawn By:	Checked By:
207-002	JAN 2008	AS SHOWN	SAC	MEM



MCB CAMP LEJEUNE
UST MANAGEMENT PROGRAM
CALENDAR YEAR 2007

NAVFAC
Naval Facilities Engineering Command

LEGEND

Monitoring Wells
- Type I
- Type II
- Type III
- Pumping Well
- Unknown Well Type
- Water Supply Wells
- Above Ground Storage Tank
- Underground Storage Tank
- Railroad Tracks

Walls and Fences
- FENCE
- GATE
- WALL

Analytical Results
- Free Product Detected
- 2L Non-Compliant
- 2L Compliant
- EPA 625 Plume

Buildings and Structures
- Demolished Structures
- Oil/Water Separators
- Slabs
- Roads
- Driveways
- Parking Lots
- Surface Water Bodies
- Creeks and Streams
- Historical Groundwater Flow Direction

Vegetation Cover
- Forestland
- Scrubland
- Wetland

Airfield Pavement
- HELIPAD
- RAMP
- RUNWAY
- SHLDR_OVERRUN
- TAXIWAY

NOTES

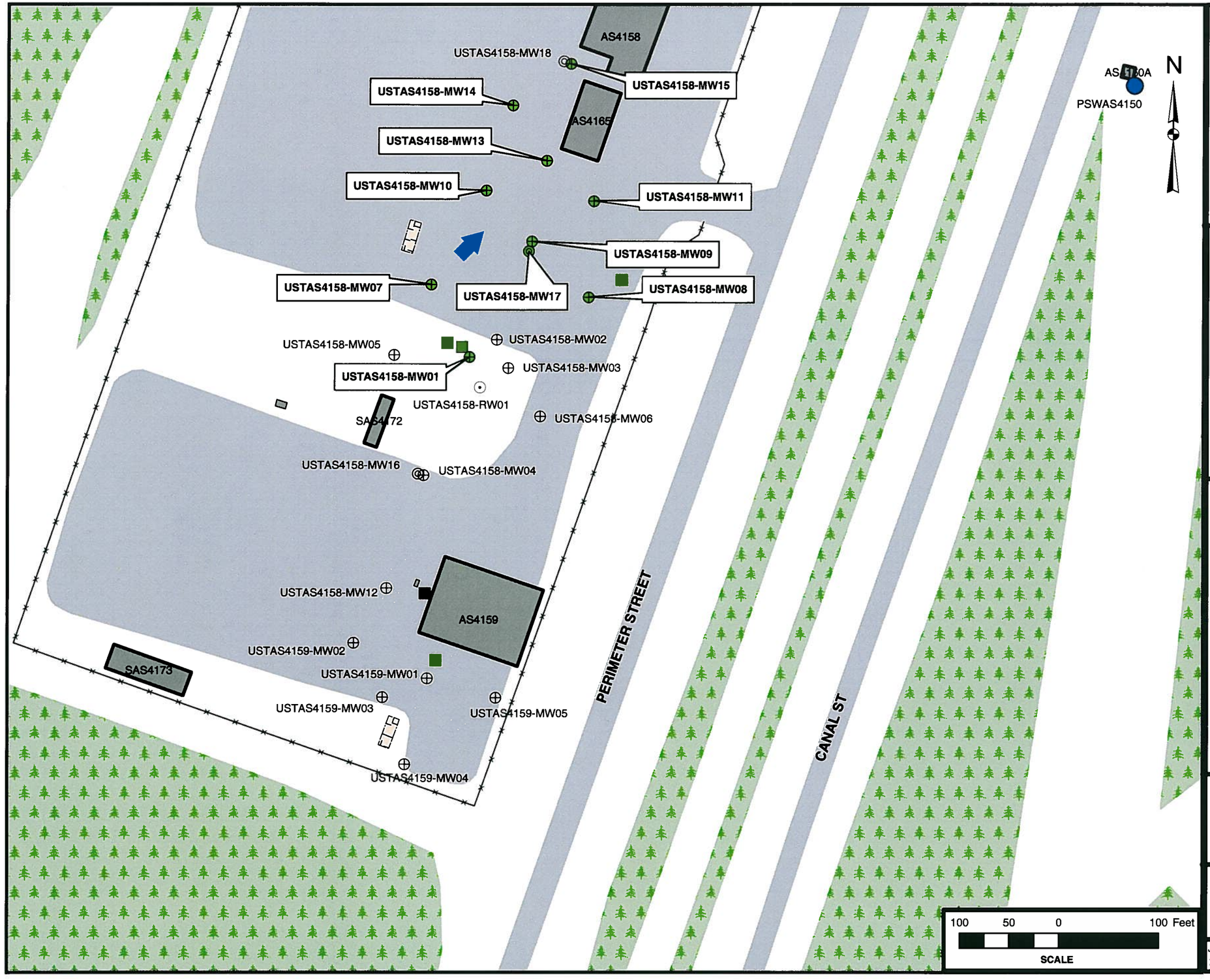
1. No EPA Method 625 compounds were detected above the 2L GWQS for any wells sampled during this monitoring event.

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SITE AS-4158
EPA METHOD 625 COLORIMETRY AND PLUME IN EXCESS OF 2L
FOURTH QUARTER 2007

FIGURE **8.3C**

Job No.:	Date:	Scale:	Drawn By:	Checked By:
207-002	JAN 2008	AS SHOWN	SAC	MEM



MCB CAMP LEJEUNE
UST MANAGEMENT PROGRAM
CALENDAR YEAR 2007

NAVFAC
Naval Facilities Engineering Command

LEGEND

Monitoring Wells
- Type I
- Type II
- Type III
- Pumping Well
- Unknown Well Type
- Water Supply Wells
- Above Ground Storage Tank
- Underground Storage Tank
- Railroad Tracks

Walls and Fences
- FENCE
- GATE
- WALL

Analytical Results
- Free Product Detected
- 2L Non-Compliant
- 2L Compliant
- EPA 6010B Plume

Buildings and Structures
- Demolished Structures
- Oil/Water Separators
- Slabs
- Roads
- Driveways
- Parking Lots
- Surface Water Bodies
- Creeks and Streams
- Historical Groundwater Flow Direction

Vegetation Cover
- Forestland
- Scrubland
- Wetland

Airfield Pavement
- HELIPAD
- RAMP
- RUNWAY
- SHLDR_OVERRUN
- TAXIWAY

NOTES

1. No EPA Method 6010B compounds were detected above the 2L GWQS for any of the wells sampled during this monitoring event.

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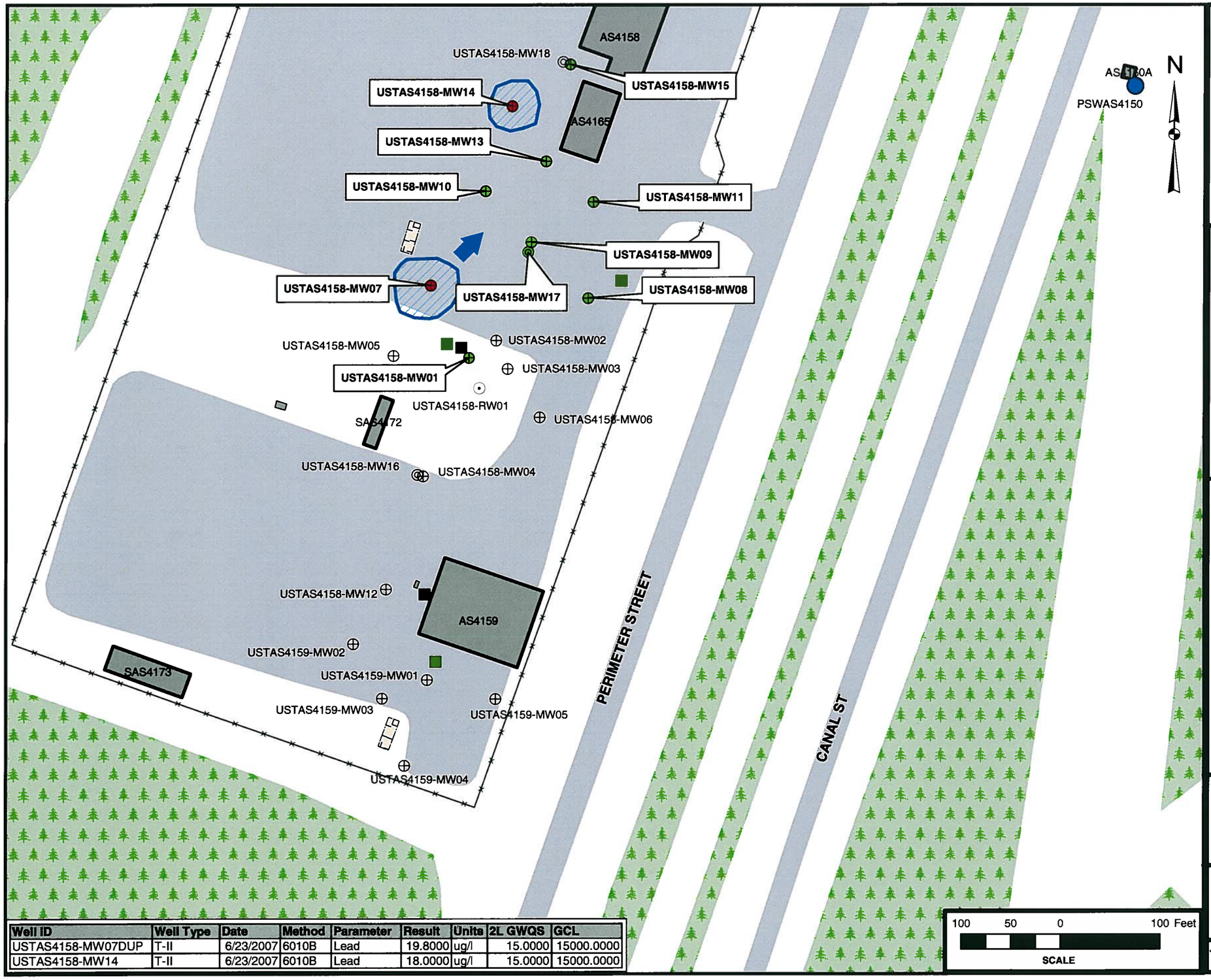
SITE AS-4158
EPA METHOD 6010B COLORIMETRY AND PLUME IN EXCESS OF 2L FIRST QUARTER 2007

FIGURE **8.4A**

Job No.:	Date:	Scale:	Drawn By:	Checked By:
207-002	JAN 2008	AS SHOWN	SAC	MEM

MCB CAMP LEJEUNE
UST MANAGEMENT PROGRAM
CALENDAR YEAR 2007

NAVFAC
Naval Facilities Engineering Command



LEGEND

Monitoring Wells
- Type I
- Type II
- Type III
- Pumping Well
- Unknown Well Type
- Water Supply Wells
- Above Ground Storage Tank
- Underground Storage Tank
- Railroad Tracks

Walls and Fences
- FENCE
- GATE
- WALL

Analytical Results
- Free Product Detected
- 2L Non-Compliant
- 2L Compliant
- EPA 6010B Plume
- Buildings and Structures
- Demolished Structures
- Oil/Water Separators
- Slabs
- Roads
- Driveways
- Parking Lots
- Surface Water Bodies
- Creeks and Streams
- Historical Groundwater Flow Direction

Vegetation Cover
- Forestland
- Scrubland
- Wetland

Airfield Pavement
- HELIPAD
- RAMP
- RUNWAY
- SHLDR_OVERRUN
- TAXIWAY

NOTES

1. 2L Standard refers to North Carolina Groundwater Quality Standard 15A NCAC 2L.0202.
2. GCL refers to Gross Contaminant Level as defined in "Guidelines for the Assessment and Corrective Action" North Carolina Underground Storage Tank Section, effective July 1, 2001.
3. A 2L Standard of "0.00" implies a standard has not yet been established. According to NCAC T15:02L, any compound found above laboratory detection limits is considered noncompliant unless otherwise specified by the NCDENR.

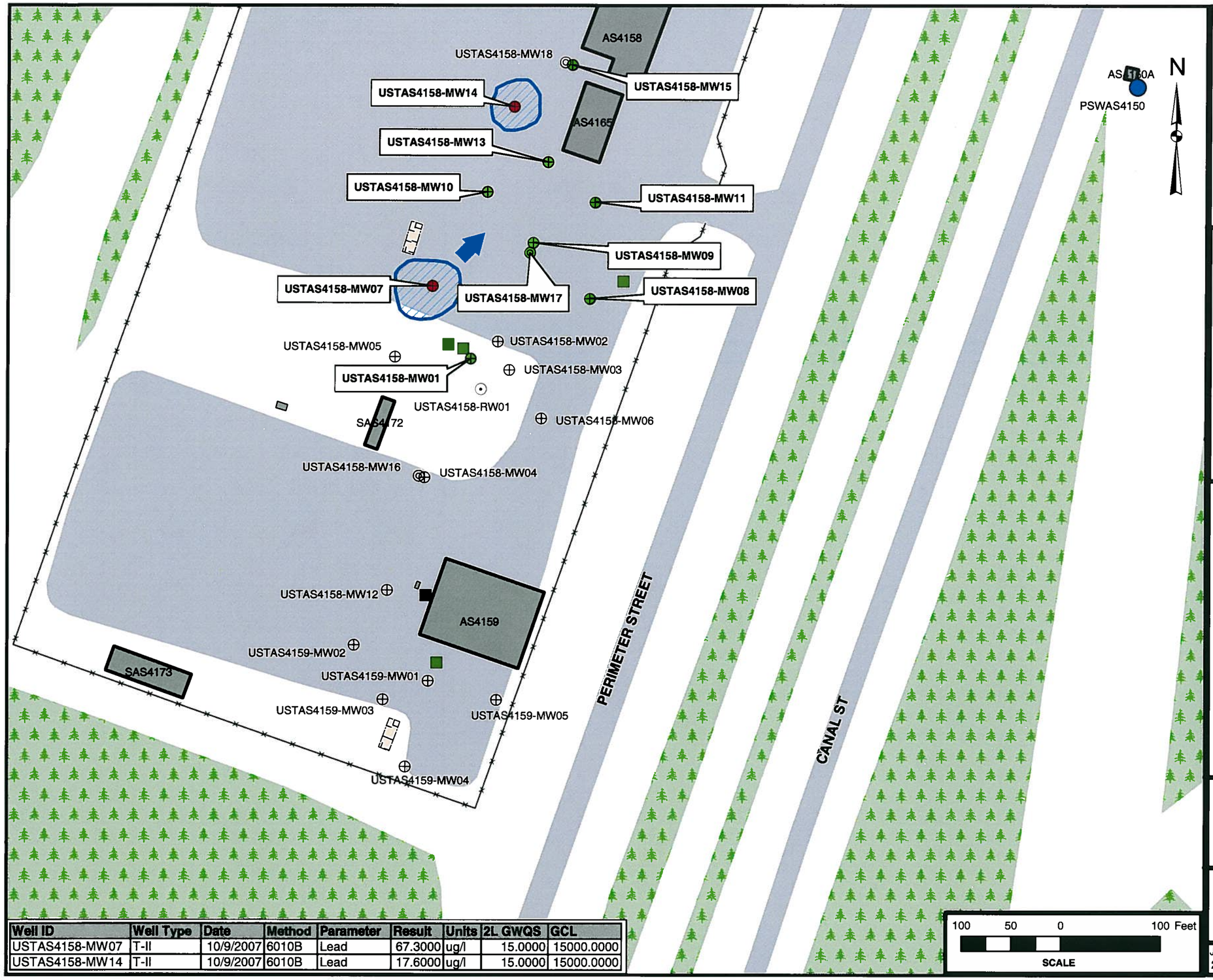
Well ID	Well Type	Date	Method	Parameter	Result	Units	2L GWQS	GCL
USTAS4158-MW07DUP	T-II	6/23/2007	6010B	Lead	19.8000	ug/l	15.0000	15000.0000
USTAS4158-MW14	T-II	6/23/2007	6010B	Lead	18.0000	ug/l	15.0000	15000.0000

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SITE AS-4158
EPA METHOD 6010B COLORIMETRY AND PLUME IN EXCESS OF 2L SECOND QUARTER 2007

FIGURE **8.4B**

Job No.:	Date:	Scale:	Drawn By:	Checked By:
207-002	JAN 2008	AS SHOWN	SAC	MEM



Well ID	Well Type	Date	Method	Parameter	Result	Units	2L GWQS	GCL
USTAS4158-MW07	T-II	10/9/2007	6010B	Lead	67.3000	ug/l	15.0000	15000.0000
USTAS4158-MW14	T-II	10/9/2007	6010B	Lead	17.6000	ug/l	15.0000	15000.0000

MCB CAMP LEJEUNE
UST MANAGEMENT PROGRAM
CALENDAR YEAR 2007

NAVFAC
Naval Facilities Engineering Command

LEGEND

Monitoring Wells
- Type I
- Type II
- Type III
- Pumping Well
- Unknown Well Type
- Water Supply Wells
- Above Ground Storage Tank
- Underground Storage Tank
- Railroad Tracks

Walls and Fences
- FENCE
- GATE
- WALL

Analytical Results
- Free Product Detected
- 2L Non-Compliant
- 2L Compliant
- EPA 6010B Plume
- Buildings and Structures
- Demolished Structures
- Oil/Water Separators
- Slabs
- Roads
- Driveways
- Parking Lots
- Surface Water Bodies
- Creeks and Streams
- Historical Groundwater Flow Direction

Vegetation Cover
- Forestland
- Scrubland
- Wetland

Airfield Pavement
- HELIPAD
- RAMP
- RUNWAY
- SHLDR_OVERRUN
- TAXIWAY

NOTES

1. 2L Standard refers to North Carolina Groundwater Quality Standard 15A NCAC 2L.0202.
2. GCL refers to Gross Contaminant Level as defined in "Guidelines for the Assessment and Corrective Action" North Carolina Underground Storage Tank Section, effective July 1, 2001.
3. A 2L Standard of "0.00" implies a standard has not yet been established. According to NCAC T15:02L, any compound found above laboratory detection limits is considered noncompliant unless otherwise specified by the NCDENR.

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SITE AS-4158
EPA METHOD 6010B COLORIMETRY AND PLUME IN EXCESS OF 2L FOURTH QUARTER 2007

FIGURE **8.4C**

Job No.:	Date:	Scale:	Drawn By:	Checked By:
207-002	JAN 2008	AS SHOWN	SAC	MEM

SECTION 9.0

OF THE

ANNUAL MANAGEMENT REPORT
MCB CAMP LEJEUNE UST MANAGEMENT PROGRAM

MONITORING EVENT:

YEAR 2007
(JANUARY – DECEMBER 2007)

SITE-SPECIFIC MONITORING REPORT
FOR

SITE AS-4159-3

NCDENR INCIDENT NO. 32277

9.0 EXECUTIVE SUMMARY
SITE AS-4159-3

9.1 Site Information

9.1.1 Site Location: MCAS New River
9.1.2 Incident Number(s): 32277
9.1.3 UTM Coordinates (WGS84) (Meters): 274863.66 Easting, 3843591.90 Northing
9.1.4 Risk Classification: Low
9.1.5 Land Use Classification: Industrial/Commercial
9.1.6 Source Type(s): 1,000 gallon Waste Oil UST, which was connected to an Oil/Water separator.

9.2 Monitoring Event Information

9.2.1 Sampling Performed By: No sampling performed.
9.2.2 Date(s) of This Monitoring Event: No sampling performed during 2007.
9.2.3 Date(s) of Previous Monitoring Event: Previous sampling performed by CATLIN as part of a Phase I LSA for the site dated April 12, 2006.
9.2.4 Reason(s) for This Monitoring Event: Not Applicable.
5.2.5 Site Monitoring Status at Time of This Event: Site qualifies for NFA with LURs; however, it is recommended that the site be re-sampled during the next monitoring period to determine if contaminant levels have naturally attenuated to below the applicable Maximum Soil Contaminant Concentrations (MSCCs) and 2L GWQS.

9.3 Groundwater Hydraulics

9.3.1 Hydraulic Conductivity: Unknown
9.3.2 Effective Porosity: Unknown
9.3.3 Hydraulic Gradient: Unknown
9.3.4 Average Linear Groundwater Flow Velocity: Not Measured
9.3.5 Groundwater Flow Direction: Unknown
9.3.6 Range of Measured Water Table Elevations: Elevations not calculated; During the January 1, 2006 site visit, CATLIN personnel obtained depth to water data from site-monitoring well USTAS4159-MW01. Depth to surficial groundwater at well USTAS4159-MW01 was 11.70 feet below top of casing.
9.3.7 Significant Changes from Previously Reported Data: Not Applicable. No data was collected during this monitoring period.

9.4 Free Product Plume

9.4.1 Free Product Present?: No.
9.4.2 Free Product Thickness Measured: Not Applicable.
9.4.3 Plume Size and Location: Not Applicable.
9.4.4 Free Product Removed from Site This Period: Not Applicable.
9.4.5 Significant Changes from Previously Reported Data: Not Applicable. No data was collected during this monitoring period.

9.5 Dissolved-Phase Plume

9.5.1 Plume Concentrations: Not Measured.
9.5.2 Plume Size and Location: Not Measured.
9.5.3 Significant Changes from Previously Reported Data: Not Applicable. This is the first Management Report for the subject site prepared by CATLIN. Groundwater sample analytical results from the 2006 CATLIN LSA are discussed as follows:

The groundwater sample obtained from monitoring well USTAS4159-MW01 during the Phase I LSA was analyzed via EPA Method 6210D, EPA Method 625 + TICS, MADEP VPH/EPH, and EPA Method 6020 (Chromium and Lead). All target analytes were either below MDLs or below applicable 2L GWQSs, with one exception. The compound 4-Isopropyltoluene was detected at a concentration of 0.600 µg/L. There is no established 2L GWQS or GCL for this compound.

9.6 Potential Receptors

9.6.1 Contaminated Water Supply Well(s)?: None.
9.6.2 Potable water supply well within 1,000 feet of source area?: There are two potable water wells located within 1,000 feet of the subject site. AS-5001 (193 feet deep) is located approximately 900 feet to the south, and AS-4150 (193 feet deep) is located approximately 850 feet to the northeast. These wells are; however, offline and would only be used in emergency situations. Notification to NCDENR is required if a change in status should occur. As a result, NCDENR/UST has ranked this site as Low risk.
9.6.3 Any Water Supply Well Within 250 Feet of Source Area?: No.
9.6.4 Surface Water Body Within 500 Feet?: No.
9.6.5 Past Evidence of Vapors?: No.
9.6.6 Significant Changes from Previously Reported Data?: Not Applicable. This is the first Management Report prepared by CATLIN for this site.

9.7 Remediation

9.7.1 Status: Complete.
9.7.2 Type: Soil excavation at tank closure.
9.7.3 Progress: Complete.
9.7.4 Construction Contractor: Shaw.
9.7.5 Operating Contractor: Not Applicable.

9.8 Observations and Comments

Based on data from the Shaw Tank Closure Report dated November 2005, on-site soil contained contamination at levels above the State Action Levels, the Soil-to-Groundwater (STGW) and Residential MSCCs. First, soil sample AS4159-01 contained TPH-DRO at 384 mg/kg which is above the State Action Level of 10 mg/kg. This location should be analyzed using the Risk-based Corrective Action (RBCA) analytical suite for Waste Oil contamination – EPA Method 8260 + IPE & MTBE, EPA Method 8270 + TICs, MADEP VPH/EPH, EPA Method 8081, EPA Method 8082, and Total Metals (Chromium and Lead). In addition, soil sample AS4159-04 exhibited C_9-

C_{22} Aromatic hydrocarbon fractions (1,190 mg/Kg) in excess of both the STGW and Residential MSCCs. This location should be resampled for MADEP VPH/EPH to assess attenuation of the C_9-C_{22} Aromatic fraction. All other EPA Method 8260, EPA Method 8270, and EPA Method 8082 target compounds were either below MDLs or below the lowest MSCC. The pesticide concentrations detected in the Shaw soil samples AS4159-02, AS4159-05, and AS4159-06 were evaluated and determined to be significantly lower than the NCDENR Hazardous Waste Section (HWS) NC Soil Screening Levels (SSLs); therefore, no additional action is required at those locations. Chromium and Lead detections were also less than the lowest MSCC.

As determined in the Phase I LSA, groundwater at the site was noncompliant for one compound - 4-Isopropyltoluene. This compound, also known as Cymene (or *p*-Cymene), is a naturally occurring Aromatic organic compound with the molecular formula $C_{10}H_{14}$. A standards comparison can be made with the C_9-C_{22} Aromatic fraction class since both structures are based on the Aromatic Benzene ring. When compared to the C_9-C_{22} Aromatic 2L GWQS of 210 µg/L, the detected 4-Isopropyltoluene estimated concentration (0.600 µg/L) is well below the 2L GWQS. No further groundwater sampling is recommended at this time.

If the results from the proposed soil sampling reveal concentrations less than the Residential MSCCs, this site would qualify for NFA without a LUR.

SECTION 10.0

OF THE

ANNUAL MANAGEMENT REPORT
MCB CAMP LEJEUNE UST MANAGEMENT PROGRAM

MONITORING EVENT:

YEAR 2007
(JANUARY – DECEMBER 2007)

SITE-SPECIFIC MONITORING REPORT
FOR

SITE CSFF/AS-4151

NCDENR INCIDENT NO. 32126

10.0 EXECUTIVE SUMMARY
SITE CSFF/AS-4151

10.1 Site Information

10.1.1 Site Location: MCAS New River
10.1.2 Incident Number(s): 23297
10.1.3 UTM Coordinates (WGS84) (Meters): 275539.81 Easting, 3844610.62 Northing
10.1.4 Risk Classification: Intermediate
10.1.5 Land Use Classification: Industrial/Commercial
7.1.6 Source Type(s): JP-5, AVGAS, Gasoline (Fuel Farm/143), No. 6 Fuel Oil, Waste Oil (4151)

10.2 Monitoring Event Information

10.2.1 Sampling Performed By: Sovereign
10.2.2 Date(s) of This Monitoring Event: Monthly gauging of selected wells July 2006 to December 2007
10.2.3 Date(s) of Previous Monitoring Event: September 2005 to June 2006
10.2.4 Reason(s) for This Monitoring Event: Gauge free product.
10.2.5 Site Monitoring Status at Time of This Event: Gauging only. Gauging of six wells on a monthly basis and all on-site monitoring wells are gauged once annually.

10.3 Groundwater Hydraulics

10.3.1 Hydraulic Conductivity: Fuel Farm: 0.46 feet/day; AS-4151: 0.14 feet/day
10.3.2 Effective Porosity: Fuel Farm: 0.28; AS-4151: 0.34
10.3.3 Hydraulic Gradient: Fuel Farm: 0.0075 feet/feet; AS-4151: 0.0097 feet/feet
10.3.4 Average Linear Groundwater Flow Velocity: Fuel Farm: 4.5 feet/year; AS-4151: 1.5 feet/year
10.3.5 Groundwater Flow Direction: Fuel Farm: South; AS-4151: South-Southeast
10.3.6 Range of Measured Water Table Elevations: See Table 10.1.
10.3.7 Significant Changes from Previously Reported Data: None.

10.4 Free Product Plume

10.4.1 Free Product Present?: Yes. Free Product detected in USTCSFF-MW13 beginning in April 2006 and persisted in this well until February 2007. In February 2007 USTCSFF-MW13 was removed and an excavation occurred around this well. A replacement well (USTCSFF-MW26) was installed in June 2007 and product has not been detected in this replacement well.
10.4.2 Free Product Thickness Measured: See Table 10.1
10.4.3 Plume Size and Location: See Figures 10.1A through 10.1F
10.4.4 Free Product Removed from Site This Period: Unknown. Free Product was hand bailed from USTCSFF-MW13, however the quantity collected was not reported to CATLIN.
10.4.5 Significant Changes from Previously Reported Data: None.

10.5 Dissolved-Phase Plume

10.5.1 Plume Concentrations: Not Measured
10.5.2 Plume Size and Location: Not Measured
10.5.3 Significant Changes from Previously Reported Data: Not Applicable. No groundwater samples were collected for laboratory analysis during the current monitoring period.

10.6 Potential Receptors

10.6.1 Contaminated Water Supply Well(s)?: No
10.6.2 Potable Water Supply Well Within 1,000 Feet of Source Area?: No
10.6.3 Any Water Supply Well Within 250 Feet of Source Area?: No
10.6.4 Surface Water Body Within 500 Feet?: No. However, a retention pond is located approximately 115 feet Southeast of the Fuel Farm, and 275 feet Northeast of AS-4151.
10.6.5 Past Evidence of Vapors?: No
10.6.6 Significant Changes from Previously Reported Data?: None

10.7 Remediation

10.7.1 Status: Remediation system shutdown July 11, 2005
10.7.2 Type: Pump and Treat, AFVR when product observed $\geq$0.1 feet
10.7.3 Progress: Shutdown.
10.7.4 Construction Contractor: J. A. Jones
10.7.5 Operating Contractor: Sovereign

10.8 Observations and Comments

Information obtained from the Marine Corps Base (MCB) Camp Lejeune on-line database indicates that the NCDENR has modified the risk ranking of the subject site to "Low" risk. Therefore, a request for NFA with LURs could be submitted to the NCDENR.

See the figure in Appendix A for the proposed monitoring schedule.

TABLE 10.1
SITE Campbell Street Fuel Farm/AS-4151
FIELD MEASUREMENTS - JULY 2005 TO DECEMBER 2007

Well No.	Type	TOC	Date	DTW	Product Thickness	Corrected GWT Elevation
USTAS142-MW01	T-II	17.34	9/12/2006	0.80	0.00	16.54
USTAS142-MW01	T-II	17.34	10/4/2006	2.18	0.00	15.16
USTAS142-MW01	T-II	17.34	11/1/2006	1.31	0.00	16.03
USTAS142-MW01	T-II	17.34	12/5/2006	1.60	0.00	15.74
USTAS142-MW01	T-II	17.34	1/5/2007	1.10	0.00	16.24
USTAS4151-DW01	T-III	17.90	4/13/2006	4.57	0.00	13.33
USTAS4151-DW01	T-III	17.90	5/3/2006	7.52	0.00	10.38
USTAS4151-DW01	T-III	17.90	6/5/2006	7.95	0.00	9.95
USTAS4151-DW01	T-III	17.90	7/13/2006	7.52	0.00	10.38
USTAS4151-DW01	T-III	17.90	8/4/2006	7.01	0.00	10.89
USTAS4151-DW01	T-III	17.90	9/12/2006	3.27	0.00	14.63
USTAS4151-DW01	T-III	17.90	10/4/2006	4.17	0.00	13.73
USTAS4151-DW01	T-III	17.90	11/1/2006	4.07	0.00	13.83
USTAS4151-DW01	T-III	17.90	12/5/2006	3.90	0.00	14.00
USTAS4151-DW01	T-III	17.90	1/5/2007	3.72	0.00	14.18
USTAS4151-DW01A	T-III	21.27	9/21/2005	7.39	0.00	13.88
USTAS4151-DW01A	T-III	21.27	10/31/2005	6.72	0.00	14.55
USTAS4151-DW01A	T-III	21.27	11/18/2005	7.63	0.00	13.64
USTAS4151-DW01A	T-III	21.27	12/7/2005	7.40	0.00	13.87
USTAS4151-DW01A	T-III	21.27	1/18/2006	7.09	0.00	14.18
USTAS4151-DW01A	T-III	21.27	2/28/2006	6.95	0.00	14.32
USTAS4151-DW01A	T-III	21.27	3/10/2006	7.34	0.00	13.93
USTAS4151-DW01A	T-III	21.27	4/13/2006	7.86	0.00	13.41
USTAS4151-DW01A	T-III	21.27	5/3/2006	4.18	0.00	17.09
USTAS4151-DW01A	T-III	21.27	6/5/2006	4.68	0.00	16.59
USTAS4151-DW01A	T-III	21.27	7/13/2006	4.18	0.00	17.09

Notes:
1. T-II = Type II monitoring well
   T-III = Type III monitoring well
   RW = Recovery well
2. TOC = Top of casing elevation in feet relative to Mean Sea Level.
3. DTW = Depth to water (in feet) from top of well casing.
4. Product thickness is measured in feet.
5. GWT = Groundwater Table
6. A zero ("0.00") in the product thickness column indicates no measureable thickness.
7. GWT Elevation corrected for measurable free product, if present.

Well No.	Type	TOC	Date	DTW	Product Thickness	Corrected GWT Elevation
USTAS4151-DW01A	T-III	21.27	8/4/2006	3.68	0.00	17.59
USTAS4151-DW01A	T-III	21.27	9/12/2006	6.57	0.00	14.70
USTAS4151-DW01A	T-III	21.27	10/4/2006	7.51	0.00	13.76
USTAS4151-DW01A	T-III	21.27	11/1/2006	7.42	0.00	13.85
USTAS4151-DW01A	T-III	21.27	12/5/2006	7.16	0.00	14.11
USTAS4151-DW01A	T-III	21.27	1/5/2007	7.02	0.00	14.25
USTAS4151-DW02	T-III	21.86	4/13/2006	8.29	0.00	13.57
USTAS4151-DW02	T-III	21.86	5/3/2006	7.88	0.00	13.98
USTAS4151-DW02	T-III	21.86	6/5/2006	8.37	0.00	13.49
USTAS4151-DW02	T-III	21.86	7/13/2006	7.95	0.00	13.91
USTAS4151-DW02	T-III	21.86	8/4/2006	7.41	0.00	14.45
USTAS4151-DW02	T-III	21.86	9/12/2006	6.96	0.00	14.90
USTAS4151-DW02	T-III	21.86	10/4/2006	7.91	0.00	13.95
USTAS4151-DW02	T-III	21.86	11/1/2006	7.82	0.00	14.04
USTAS4151-DW02	T-III	21.86	12/5/2006	7.55	0.00	14.31
USTAS4151-DW02	T-III	21.86	1/5/2007	7.45	0.00	14.41
USTAS4151-MW01	T-II	21.87	4/13/2006	5.68	0.00	16.19
USTAS4151-MW01	T-II	21.87	5/3/2006	5.77	0.00	16.10
USTAS4151-MW01	T-II	21.87	6/5/2006	6.12	0.00	15.75
USTAS4151-MW01	T-II	21.87	7/13/2006	5.77	0.00	16.10
USTAS4151-MW01	T-II	21.87	8/4/2006	5.33	0.00	16.54
USTAS4151-MW01	T-II	21.87	9/12/2006	5.45	0.00	16.42
USTAS4151-MW01	T-II	21.87	10/4/2006	5.90	0.00	15.97
USTAS4151-MW01	T-II	21.87	11/1/2006	5.65	0.00	16.22
USTAS4151-MW01	T-II	21.87	12/5/2006	5.81	0.00	16.06
USTAS4151-MW01	T-II	21.87	1/5/2007	5.80	0.00	16.07
USTAS4151-MW02	T-II	21.66	4/13/2006	6.08	0.00	15.58
USTAS4151-MW02	T-II	21.66	5/3/2006	5.80	0.00	15.86
USTAS4151-MW02	T-II	21.66	6/5/2006	6.04	0.00	15.62
USTAS4151-MW02	T-II	21.66	7/13/2006	5.81	0.00	15.85
USTAS4151-MW02	T-II	21.66	8/4/2006	5.27	0.00	16.39

Notes:
1. T-II = Type II monitoring well
   T-III = Type III monitoring well
   RW = Recovery well
2. TOC = Top of casing elevation in feet relative to Mean Sea Level.
3. DTW = Depth to water (in feet) from top of well casing.
4. Product thickness is measured in feet.
5. GWT = Groundwater Table
6. A zero ("0.00") in the product thickness column indicates no measureable thickness.
7. GWT Elevation corrected for measurable free product, if present.

Well No.	Type	TOC	Date	DTW	Product Thickness	Corrected GWT Elevation
USTAS4151-MW02	T-II	21.66	9/12/2006	5.64	0.00	16.02
USTAS4151-MW02	T-II	21.66	10/4/2006	6.62	0.00	15.04
USTAS4151-MW02	T-II	21.66	11/1/2006	6.60	0.00	15.06
USTAS4151-MW02	T-II	21.66	12/5/2006	5.82	0.00	15.84
USTAS4151-MW02	T-II	21.66	1/5/2007	5.43	0.00	16.23
USTAS4151-MW02A	T-II	21.11	5/3/2006	6.47	0.00	14.64
USTAS4151-MW02A	T-II	21.11	6/5/2006	6.51	0.00	14.60
USTAS4151-MW02A	T-II	21.11	7/13/2006	6.46	0.00	14.65
USTAS4151-MW02A	T-II	21.11	8/4/2006	6.46	0.00	14.65
USTAS4151-MW02A	T-II	21.11	9/12/2006	6.42	0.00	14.69
USTAS4151-MW02A	T-II	21.11	10/4/2006	6.55	0.00	14.56
USTAS4151-MW02A	T-II	21.11	11/1/2006	6.45	0.00	14.66
USTAS4151-MW02A	T-II	21.11	12/5/2006	6.41	0.00	14.70
USTAS4151-MW02A	T-II	21.11	1/5/2007	6.36	0.00	14.75
USTAS4151-MW03	T-II	21.31	9/21/2005	5.70	0.00	15.61
USTAS4151-MW03	T-II	21.31	10/31/2005	5.53	0.00	15.78
USTAS4151-MW03	T-II	21.31	11/18/2005	6.73	0.00	14.58
USTAS4151-MW03	T-II	21.31	12/7/2005	5.86	0.00	15.45
USTAS4151-MW03	T-II	21.31	1/18/2006	4.95	0.00	16.36
USTAS4151-MW03	T-II	21.31	2/28/2006	4.85	0.00	16.46
USTAS4151-MW03	T-II	21.31	3/10/2006	5.63	0.00	15.68
USTAS4151-MW03	T-II	21.31	4/13/2006	6.06	0.00	15.25
USTAS4151-MW03	T-II	21.31	5/3/2006	5.61	0.00	15.70
USTAS4151-MW03	T-II	21.31	6/5/2006	6.58	0.00	14.73
USTAS4151-MW03	T-II	21.31	7/13/2006	6.27	0.00	15.04
USTAS4151-MW03	T-II	21.31	8/4/2006	5.31	0.00	16.00
USTAS4151-MW03	T-II	21.31	9/12/2006	5.05	0.00	16.26
USTAS4151-MW03	T-II	21.31	10/4/2006	6.84	0.00	14.47
USTAS4151-MW03	T-II	21.31	11/1/2006	6.16	0.00	15.15
USTAS4151-MW03	T-II	21.31	12/5/2006	5.55	0.00	15.76
USTAS4151-MW03	T-II	21.31	1/5/2007		0.00	

Notes:
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3. DTW = Depth to water (in feet) from top of well casing.
4. Product thickness is measured in feet.
5. GWT = Groundwater Table
6. A zero ("0.00") in the product thickness column indicates no measureable thickness.
7. GWT Elevation corrected for measurable free product, if present.

Well No.	Type	TOC	Date	DTW	Product Thickness	Corrected GWT Elevation
USTAS4151-MW04	T-II	18.81	9/21/2005	1.20	0.00	17.61
USTAS4151-MW04	T-II	18.81	10/31/2005	2.28	0.00	16.53
USTAS4151-MW04	T-II	18.81	11/18/2005	3.17	0.00	15.64
USTAS4151-MW04	T-II	18.81	12/7/2005	3.09	0.00	15.72
USTAS4151-MW04	T-II	18.81	1/18/2006	2.95	0.00	15.86
USTAS4151-MW04	T-II	18.81	2/28/2006	1.52	0.00	17.29
USTAS4151-MW04	T-II	18.81	3/10/2006	3.11	0.00	15.70
USTAS4151-MW04	T-II	18.81	4/13/2006	3.34	0.00	15.47
USTAS4151-MW04	T-II	18.81	5/3/2006	2.82	0.00	15.99
USTAS4151-MW04	T-II	18.81	6/5/2006	1.97	0.00	16.84
USTAS4151-MW04	T-II	18.81	7/13/2006	2.94	0.00	15.87
USTAS4151-MW04	T-II	18.81	8/4/2006	2.28	0.00	16.53
USTAS4151-MW04	T-II	18.81	9/12/2006	2.45	0.00	16.36
USTAS4151-MW04	T-II	18.81	10/4/2006	3.14	0.00	15.67
USTAS4151-MW04	T-II	18.81	11/1/2006	2.72	0.00	16.09
USTAS4151-MW04	T-II	18.81	12/5/2006	2.90	0.00	15.91
USTAS4151-MW04	T-II	18.81	1/5/2007	1.58	0.00	17.23
USTAS4151-MW05	T-II	17.76	9/21/2005	3.38	0.00	14.38
USTAS4151-MW05	T-II	17.76	10/31/2005	3.56	0.00	14.20
USTAS4151-MW05	T-II	17.76	11/18/2005	4.00	0.00	13.76
USTAS4151-MW05	T-II	17.76	12/7/2005	3.77	0.00	13.99
USTAS4151-MW05	T-II	17.76	1/18/2006	4.06	0.00	13.70
USTAS4151-MW05	T-II	17.76	2/28/2006	3.34	0.00	14.42
USTAS4151-MW05	T-II	17.76	3/10/2006	3.67	0.00	14.09
USTAS4151-MW05	T-II	17.76	4/13/2006	3.58	0.00	14.18
USTAS4151-MW05	T-II	17.76	5/3/2006	3.70	0.00	14.06
USTAS4151-MW05	T-II	17.76	6/5/2006	3.88	0.00	13.88
USTAS4151-MW05	T-II	17.76	7/13/2006	4.00	0.00	13.76
USTAS4151-MW05	T-II	17.76	8/4/2006	3.55	0.00	14.21
USTAS4151-MW05	T-II	17.76	9/12/2006	3.52	0.00	14.24
USTAS4151-MW05	T-II	17.76	10/4/2006	4.07	0.00	13.69

Notes:
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4. Product thickness is measured in feet.
5. GWT = Groundwater Table
6. A zero ("0.00") in the product thickness column indicates no measureable thickness.
7. GWT Elevation corrected for measurable free product, if present.

Well No.	Type	TOC	Date	DTW	Product Thickness	Corrected GWT Elevation
USTAS4151-MW05	T-II	17.76	11/1/2006	3.65	0.00	14.11
USTAS4151-MW05	T-II	17.76	12/5/2006	3.63	0.00	14.13
USTAS4151-MW05	T-II	17.76	1/5/2007	3.40	0.00	14.36
USTAS4151-MW06	T-II	19.13	9/21/2005	6.25	0.00	12.88
USTAS4151-MW06	T-II	19.13	10/31/2005	6.13	0.00	13.00
USTAS4151-MW06	T-II	19.13	11/18/2005	6.60	0.00	12.53
USTAS4151-MW06	T-II	19.13	1/18/2006	6.25	0.00	12.88
USTAS4151-MW06	T-II	19.13	2/28/2006	6.11	0.00	13.02
USTAS4151-MW06	T-II	19.13	3/10/2006	6.43	0.00	12.70
USTAS4151-MW07	T-III	17.51	9/21/2005	2.54	0.00	14.97
USTAS4151-MW07	T-III	17.51	10/31/2005	2.86	0.00	14.65
USTAS4151-MW07	T-III	17.51	11/18/2005	3.57	0.00	13.94
USTAS4151-MW07	T-III	17.51	12/7/2005	3.33	0.00	14.18
USTAS4151-MW07	T-III	17.51	1/18/2006	2.94	0.00	14.57
USTAS4151-MW07	T-III	17.51	2/28/2006	1.65	0.00	15.86
USTAS4151-MW07	T-III	17.51	3/10/2006	3.23	0.00	14.28
USTAS4151-MW07	T-III	17.51	4/13/2006	3.37	0.00	14.14
USTAS4151-MW07	T-III	17.51	5/3/2006	3.15	0.00	14.36
USTAS4151-MW07	T-III	17.51	6/5/2006	3.46	0.00	14.05
USTAS4151-MW07	T-III	17.51	7/13/2006	3.25	0.00	14.26
USTAS4151-MW07	T-III	17.51	8/4/2006	2.54	0.00	14.97
USTAS4151-MW07	T-III	17.51	9/12/2006	2.70	0.00	14.81
USTAS4151-MW07	T-III	17.51	10/4/2006	3.47	0.00	14.04
USTAS4151-MW07	T-III	17.51	11/1/2006	3.03	0.00	14.48
USTAS4151-MW07	T-III	17.51	12/5/2006	3.18	0.00	14.33
USTAS4151-MW07	T-III	17.51	1/5/2007	2.77	0.00	14.74
USTAS4151-MW08	T-II	20.34	9/21/2005	6.13	0.00	14.21
USTAS4151-MW08	T-II	20.34	10/31/2005	6.26	0.00	14.08
USTAS4151-MW08	T-II	20.34	11/18/2005	6.77	0.00	13.57
USTAS4151-MW08	T-II	20.34	12/7/2005	6.66	0.00	13.68
USTAS4151-MW08	T-II	20.34	1/18/2006	6.46	0.00	13.88

Notes:
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4. Product thickness is measured in feet.
5. GWT = Groundwater Table
6. A zero ("0.00") in the product thickness column indicates no measureable thickness.
7. GWT Elevation corrected for measurable free product, if present.

Well No.	Type	TOC	Date	DTW	Product Thickness	Corrected GWT Elevation
USTAS4151-MW08	T-II	20.34	2/28/2006	6.16	0.00	14.18
USTAS4151-MW08	T-II	20.34	3/10/2006	6.56	0.00	13.78
USTAS4151-MW08	T-II	20.34	4/13/2006	6.55	0.00	13.79
USTAS4151-MW08	T-II	20.34	5/3/2006	6.45	0.00	13.89
USTAS4151-MW08	T-II	20.34	6/5/2006	6.65	0.00	13.69
USTAS4151-MW08	T-II	20.34	7/13/2006	6.52	0.00	13.82
USTAS4151-MW08	T-II	20.34	8/4/2006	6.20	0.00	14.14
USTAS4151-MW08	T-II	20.34	9/12/2006	5.27	0.00	15.07
USTAS4151-MW08	T-II	20.34	10/4/2006	6.72	0.00	13.62
USTAS4151-MW08	T-II	20.34	11/1/2006	6.46	0.00	13.88
USTAS4151-MW08	T-II	20.34	12/5/2006	6.60	0.00	13.74
USTAS4151-MW08	T-II	20.34	1/5/2007	6.40	0.00	13.94
USTAS4151-MW09	T-II	18.04	9/21/2005	4.34	0.00	13.70
USTAS4151-MW09	T-II	18.04	10/31/2005	4.61	0.00	13.43
USTAS4151-MW09	T-II	18.04	11/18/2005	4.98	0.00	13.06
USTAS4151-MW09	T-II	18.04	12/7/2005	4.82	0.00	13.22
USTAS4151-MW09	T-II	18.04	1/18/2006	4.62	0.00	13.42
USTAS4151-MW09	T-II	18.04	2/28/2006	4.57	0.00	13.47
USTAS4151-MW09	T-II	18.04	3/10/2006	4.78	0.00	13.26
USTAS4151-MW09	T-II	18.04	4/13/2006	4.63	0.00	13.41
USTAS4151-MW09	T-II	18.04	5/3/2006	4.61	0.00	13.43
USTAS4151-MW09	T-II	18.04	6/5/2006	4.53	0.00	13.51
USTAS4151-MW09	T-II	18.04	7/13/2006	4.57	0.00	13.47
USTAS4151-MW09	T-II	18.04	8/4/2006	4.17	0.00	13.87
USTAS4151-MW09	T-II	18.04	9/12/2006	4.27	0.00	13.77
USTAS4151-MW09	T-II	18.04	10/4/2006	4.60	0.00	13.44
USTAS4151-MW09	T-II	18.04	11/1/2006	4.48	0.00	13.56
USTAS4151-MW09	T-II	18.04	12/5/2006	4.72	0.00	13.32
USTAS4151-MW09	T-II	18.04	1/5/2007	4.85	0.00	13.19
USTAS4151-MW10	T-II	20.79	4/13/2006	6.07	0.00	14.72
USTAS4151-MW10	T-II	20.79	5/3/2006	5.87	0.00	14.92

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4. Product thickness is measured in feet.
5. GWT = Groundwater Table
6. A zero ("0.00") in the product thickness column indicates no measureable thickness.
7. GWT Elevation corrected for measurable free product, if present.

Well No.	Type	TOC	Date	DTW	Product Thickness	Corrected GWT Elevation
USTAS4151-MW10	T-II	20.79	6/5/2006	6.00	0.00	14.79
USTAS4151-MW10	T-II	20.79	7/13/2006	6.00	0.00	14.79
USTAS4151-MW10	T-II	20.79	8/4/2006	5.22	0.00	15.57
USTAS4151-MW10	T-II	20.79	9/12/2006	5.51	0.00	15.28
USTAS4151-MW10	T-II	20.79	10/4/2006	6.42	0.00	14.37
USTAS4151-MW10	T-II	20.79	11/1/2006	5.72	0.00	15.07
USTAS4151-MW10	T-II	20.79	12/5/2006	5.78	0.00	15.01
USTAS4151-MW10	T-II	20.79	1/5/2007	5.44	0.00	15.35
USTAS4151-MW11	T-II	20.56	9/21/2005	5.42	0.00	15.14
USTAS4151-MW11	T-II	20.56	10/31/2005	5.55	0.00	15.01
USTAS4151-MW11	T-II	20.56	11/18/2005	6.23	0.00	14.33
USTAS4151-MW11	T-II	20.56	1/18/2006	5.86	0.00	14.70
USTAS4151-MW11	T-II	20.56	2/28/2006	5.56	0.00	15.00
USTAS4151-MW11	T-II	20.56	3/10/2006	6.11	0.00	14.45
USTAS4151-MW11	T-II	20.56	4/13/2006	5.92	0.00	14.64
USTAS4151-MW11	T-II	20.56	5/3/2006	5.87	0.00	14.69
USTAS4151-MW11	T-II	20.56	6/5/2006	5.79	0.00	14.77
USTAS4151-MW11	T-II	20.56	7/13/2006	6.01	0.00	14.55
USTAS4151-MW11	T-II	20.56	8/4/2006	5.43	0.00	15.13
USTAS4151-MW11	T-II	20.56	9/12/2006	5.67	0.00	14.89
USTAS4151-MW11	T-II	20.56	10/4/2006	6.18	0.00	14.38
USTAS4151-MW11	T-II	20.56	11/1/2006	5.65	0.00	14.91
USTAS4151-MW11	T-II	20.56	12/5/2006	5.98	0.00	14.58
USTAS4151-MW11	T-II	20.56	1/5/2007	5.63	0.00	14.93
USTAS4151-MW12	T-II	19.99	4/13/2006	5.72	0.00	14.27
USTAS4151-MW12	T-II	19.99	5/3/2006	5.47	0.00	14.52
USTAS4151-MW12	T-II	19.99	6/5/2006	5.74	0.00	14.25
USTAS4151-MW12	T-II	19.99	7/13/2006	5.52	0.00	14.47
USTAS4151-MW12	T-II	19.99	8/4/2006	4.87	0.00	15.12
USTAS4151-MW12	T-II	19.99	9/12/2006	5.02	0.00	14.97
USTAS4151-MW12	T-II	19.99	10/4/2006	5.72	0.00	14.27

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4. Product thickness is measured in feet.
5. GWT = Groundwater Table
6. A zero ("0.00") in the product thickness column indicates no measureable thickness.
7. GWT Elevation corrected for measurable free product, if present.

Well No.	Type	TOC	Date	DTW	Product Thickness	Corrected GWT Elevation
USTAS4151-MW12	T-II	19.99	11/1/2006	5.41	0.00	14.58
USTAS4151-MW12	T-II	19.99	12/5/2006	5.48	0.00	14.51
USTAS4151-MW12	T-II	19.99	1/5/2007	5.12	0.00	14.87
USTAS4151-MW13	T-II	19.72	9/21/2005	4.72	0.00	15.00
USTAS4151-MW13	T-II	19.72	10/31/2005	4.96	0.00	14.76
USTAS4151-MW13	T-II	19.72	11/18/2005	4.96	0.00	14.76
USTAS4151-MW13	T-II	19.72	12/7/2005	5.47	0.00	14.25
USTAS4151-MW13	T-II	19.72	1/18/2006	5.00	0.00	14.72
USTAS4151-MW13	T-II	19.72	2/28/2006	4.77	0.00	14.95
USTAS4151-MW13	T-II	19.72	3/10/2006	5.37	0.00	14.35
USTAS4151-MW13	T-II	19.72	4/13/2006	5.53	0.00	14.19
USTAS4151-MW13	T-II	19.72	5/3/2006	5.33	0.00	14.39
USTAS4151-MW13	T-II	19.72	6/5/2006	5.62	0.00	14.10
USTAS4151-MW13	T-II	19.72	7/13/2006	5.40	0.00	14.32
USTAS4151-MW13	T-II	19.72	8/4/2006	4.71	0.00	15.01
USTAS4151-MW13	T-II	19.72	9/12/2006	4.85	0.00	14.87
USTAS4151-MW13	T-II	19.72	10/4/2006	5.61	0.00	14.11
USTAS4151-MW13	T-II	19.72	11/1/2006	5.21	0.00	14.51
USTAS4151-MW13	T-II	19.72	12/5/2006	5.28	0.00	14.44
USTAS4151-MW13	T-II	19.72	1/5/2007	4.83	0.00	14.89
USTAS4151-MW13A	T-II	21.08	9/21/2005	5.32	0.00	15.76
USTAS4151-MW13A	T-II	21.08	10/31/2005	5.52	0.00	15.56
USTAS4151-MW13A	T-II	21.08	11/18/2005	5.98	0.00	15.10
USTAS4151-MW13A	T-II	21.08	12/7/2005	6.00	0.00	15.08
USTAS4151-MW13A	T-II	21.08	1/18/2006	5.82	0.00	15.26
USTAS4151-MW13A	T-II	21.08	2/28/2006	5.57	0.00	15.51
USTAS4151-MW13A	T-II	21.08	3/10/2006	5.97	0.00	15.11
USTAS4151-MW13A	T-II	21.08	4/13/2006	6.04	0.00	15.04
USTAS4151-MW13A	T-II	21.08	1/5/2007	5.60	0.00	15.48
USTAS4151-MW14	T-II	22.57	9/21/2005	6.41	0.00	16.16
USTAS4151-MW14	T-II	22.57	10/31/2005	6.56	0.00	16.01

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6. A zero ("0.00") in the product thickness column indicates no measureable thickness.
7. GWT Elevation corrected for measurable free product, if present.

Well No.	Type	TOC	Date	DTW	Product Thickness	Corrected GWT Elevation
USTAS4151-MW14	T-II	22.57	11/18/2005	7.12	0.00	15.45
USTAS4151-MW14	T-II	22.57	12/7/2005	6.45	0.00	16.12
USTAS4151-MW14	T-II	22.57	1/18/2006	5.68	0.00	16.89
USTAS4151-MW14	T-II	22.57	2/28/2006	5.46	0.00	17.11
USTAS4151-MW14	T-II	22.57	3/10/2006	6.11	0.00	16.46
USTAS4151-MW14	T-II	22.57	4/13/2006	6.35	0.00	16.22
USTAS4151-MW14	T-II	22.57	5/3/2006	6.17	0.00	16.40
USTAS4151-MW14	T-II	22.57	6/5/2006	6.35	0.00	16.22
USTAS4151-MW14	T-II	22.57	7/13/2006	6.12	0.00	16.45
USTAS4151-MW14	T-II	22.57	8/4/2006	5.63	0.00	16.94
USTAS4151-MW14	T-II	22.57	9/12/2006	6.22	0.00	16.35
USTAS4151-MW14	T-II	22.57	10/4/2006	7.17	0.00	15.40
USTAS4151-MW14	T-II	22.57	11/1/2006	7.11	0.00	15.46
USTAS4151-MW14	T-II	22.57	12/5/2006	6.21	0.00	16.36
USTAS4151-MW14	T-II	22.57	1/5/2007	5.85	0.00	16.72
USTAS4151-RW01	RW	17.99	9/21/2005	3.64	0.00	14.35
USTAS4151-RW01	RW	17.99	10/31/2005	3.59	0.00	14.40
USTAS4151-RW01	RW	17.99	11/18/2005	4.33	0.00	13.66
USTAS4151-RW01	RW	17.99	12/7/2005	4.16	0.00	13.83
USTAS4151-RW01	RW	17.99	1/18/2006	3.92	0.00	14.07
USTAS4151-RW01	RW	17.99	2/28/2006	3.61	0.00	14.38
USTAS4151-RW01	RW	17.99	3/10/2006	4.01	0.00	13.98
USTAS4151-RW01	RW	17.99	4/13/2006	3.95	0.00	14.04
USTAS4151-RW01	RW	17.99	5/3/2006	3.87	0.00	14.12
USTAS4151-RW01	RW	17.99	6/5/2006	3.97	0.00	14.02
USTAS4151-RW01	RW	17.99	7/13/2006	3.80	0.00	14.19
USTAS4151-RW01	RW	17.99	8/4/2006	3.45	0.00	14.54
USTAS4151-RW01	RW	17.99	9/12/2006	3.58	0.00	14.41
USTAS4151-RW01	RW	17.99	10/4/2006	4.11	0.00	13.88
USTAS4151-RW01	RW	17.99	11/1/2006	3.86	0.00	14.13
USTAS4151-RW01	RW	17.99	12/5/2006	4.20	0.00	13.79

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4. Product thickness is measured in feet.
5. GWT = Groundwater Table
6. A zero ("0.00") in the product thickness column indicates no measureable thickness.
7. GWT Elevation corrected for measurable free product, if present.

Well No.	Type	TOC	Date	DTW	Product Thickness	Corrected GWT Elevation
USTAS4151-RW01	RW	17.99	1/5/2007	4.30	0.00	13.69
USTCSFF-DW01	T-III	19.92	4/13/2006	6.57	0.00	13.35
USTCSFF-DW01	T-III	19.92	5/3/2006	6.15	0.00	13.77
USTCSFF-DW01	T-III	19.92	6/5/2006	6.76	0.00	13.16
USTCSFF-DW01	T-III	19.92	7/13/2006	6.35	0.00	13.57
USTCSFF-DW01	T-III	19.92	8/4/2006	5.72	0.00	14.20
USTCSFF-DW01	T-III	19.92	9/12/2006	5.25	0.00	14.67
USTCSFF-DW01	T-III	19.92	10/4/2006	6.32	0.00	13.60
USTCSFF-DW01	T-III	19.92	11/1/2006	6.15	0.00	13.77
USTCSFF-DW01	T-III	19.92	12/5/2006	6.00	0.00	13.92
USTCSFF-DW01	T-III	19.92	1/5/2007	5.82	0.00	14.10
USTCSFF-DW02	T-III	22.06	9/21/2005	8.03	0.00	14.03
USTCSFF-DW02	T-III	22.06	10/31/2005	7.21	0.00	14.85
USTCSFF-DW02	T-III	22.06	11/18/2005	8.25	0.00	13.81
USTCSFF-DW02	T-III	22.06	12/7/2005	7.83	0.00	14.23
USTCSFF-DW02	T-III	22.06	1/18/2006	7.47	0.00	14.59
USTCSFF-DW02	T-III	22.06	2/28/2006	7.39	0.00	14.67
USTCSFF-DW02	T-III	22.06	3/10/2006	7.86	0.00	14.20
USTCSFF-DW02	T-III	22.06	4/13/2006	8.42	0.00	13.64
USTCSFF-DW02	T-III	22.06	5/3/2006	8.05	0.00	14.01
USTCSFF-DW02	T-III	22.06	6/5/2006	8.67	0.00	13.39
USTCSFF-DW02	T-III	22.06	7/13/2006	8.26	0.00	13.80
USTCSFF-DW02	T-III	22.06	8/4/2006	7.60	0.00	14.46
USTCSFF-DW02	T-III	22.06	9/12/2006	7.10	0.00	14.96
USTCSFF-DW02	T-III	22.06	10/4/2006	8.22	0.00	13.84
USTCSFF-DW02	T-III	22.06	11/1/2006	8.02	0.00	14.04
USTCSFF-DW02	T-III	22.06	12/5/2006	7.82	0.00	14.24
USTCSFF-DW02	T-III	22.06	1/5/2007	7.45	0.00	14.61
USTCSFF-DW04	T-III	20.12	4/13/2006	6.43	0.00	13.69
USTCSFF-DW04	T-III	20.12	5/3/2006	6.04	0.00	14.08
USTCSFF-DW04	T-III	20.12	6/5/2006	6.65	0.00	13.47

Notes:
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4. Product thickness is measured in feet.
5. GWT = Groundwater Table
6. A zero ("0.00") in the product thickness column indicates no measureable thickness.
7. GWT Elevation corrected for measurable free product, if present.

Well No.	Type	TOC	Date	DTW	Product Thickness	Corrected GWT Elevation
USTCSFF-DW04	T-III	20.12	7/13/2006	6.25	0.00	13.87
USTCSFF-DW04	T-III	20.12	8/4/2006	5.61	0.00	14.51
USTCSFF-DW04	T-III	20.12	9/12/2006	5.11	0.00	15.01
USTCSFF-DW04	T-III	20.12	10/4/2006	6.20	0.00	13.92
USTCSFF-DW04	T-III	20.12	11/1/2006	6.03	0.00	14.09
USTCSFF-DW04	T-III	20.12	12/5/2006	5.80	0.00	14.32
USTCSFF-DW04	T-III	20.12	1/4/2007	5.62	0.00	14.50
USTCSFF-DW05	T-III	21.78	4/13/2006	8.42	0.00	13.36
USTCSFF-DW05	T-III	21.78	5/3/2006	8.00	0.00	13.78
USTCSFF-DW05	T-III	21.78	6/5/2006	8.63	0.00	13.15
USTCSFF-DW05	T-III	21.78	7/13/2006	8.21	0.00	13.57
USTCSFF-DW05	T-III	21.78	8/4/2006	7.58	0.00	14.20
USTCSFF-DW05	T-III	21.78	9/12/2006	7.08	0.00	14.70
USTCSFF-DW05	T-III	21.78	10/4/2006	8.17	0.00	13.61
USTCSFF-DW05	T-III	21.78	11/1/2006	8.00	0.00	13.78
USTCSFF-DW05	T-III	21.78	12/5/2006	7.82	0.00	13.96
USTCSFF-DW05	T-III	21.78	1/4/2007	7.65	0.00	14.13
USTCSFF-DW06	T-III	20.93	9/21/2005	7.25	0.00	13.68
USTCSFF-DW06	T-III	20.93	10/31/2005	6.46	0.00	14.47
USTCSFF-DW06	T-III	20.93	11/18/2005	7.48	0.00	13.45
USTCSFF-DW06	T-III	20.93	12/7/2005	7.11	0.00	13.82
USTCSFF-DW06	T-III	20.93	1/18/2006	6.74	0.00	14.19
USTCSFF-DW06	T-III	20.93	2/28/2006	6.64	0.00	14.29
USTCSFF-DW06	T-III	20.93	3/10/2006	7.14	0.00	13.79
USTCSFF-DW06	T-III	20.93	4/13/2006	7.67	0.00	13.26
USTCSFF-DW06	T-III	20.93	5/3/2006	7.27	0.00	13.66
USTCSFF-DW06	T-III	20.93	6/5/2006	7.83	0.00	13.10
USTCSFF-DW06	T-III	20.93	7/13/2006	7.42	0.00	13.51
USTCSFF-DW06	T-III	20.93	8/4/2006	6.82	0.00	14.11
USTCSFF-DW06	T-III	20.93	9/12/2006	6.55	0.00	14.38
USTCSFF-DW06	T-III	20.93	10/4/2006	7.40	0.00	13.53

Notes:
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4. Product thickness is measured in feet.
5. GWT = Groundwater Table
6. A zero ("0.00") in the product thickness column indicates no measureable thickness.
7. GWT Elevation corrected for measurable free product, if present.

Well No.	Type	TOC	Date	DTW	Product Thickness	Corrected GWT Elevation
USTCSFF-DW06	T-III	20.93	11/1/2006	7.26	0.00	13.67
USTCSFF-DW06	T-III	20.93	12/5/2006	7.11	0.00	13.82
USTCSFF-DW06	T-III	20.93	1/4/2007	6.95	0.00	13.98
USTCSFF-MW02A	T-II		4/13/2006	6.47	0.00	
USTCSFF-MW03	T-II	21.06	9/21/2005	5.55	0.00	15.51
USTCSFF-MW03	T-II	21.06	10/31/2005	5.40	0.00	15.66
USTCSFF-MW03	T-II	21.06	11/18/2005	6.82	0.00	14.24
USTCSFF-MW03	T-II	21.06	12/7/2005	6.00	0.00	15.06
USTCSFF-MW03	T-II	21.06	1/18/2006	5.61	0.00	15.45
USTCSFF-MW03	T-II	21.06	2/28/2006	5.39	0.00	15.67
USTCSFF-MW03	T-II	21.06	3/10/2006	6.28	0.00	14.78
USTCSFF-MW03	T-II	21.06	4/13/2006	6.60	0.00	14.46
USTCSFF-MW03	T-II	21.06	5/3/2006	6.03	0.00	15.03
USTCSFF-MW03	T-II	21.06	6/5/2006	6.73	0.00	14.33
USTCSFF-MW03	T-II	21.06	7/13/2006	6.32	0.00	14.74
USTCSFF-MW03	T-II	21.06	8/4/2006	5.30	0.00	15.76
USTCSFF-MW03	T-II	21.06	9/12/2006	5.45	0.00	15.61
USTCSFF-MW03	T-II	21.06	10/4/2006	6.45	0.00	14.61
USTCSFF-MW03	T-II	21.06	11/1/2006	5.52	0.00	15.54
USTCSFF-MW03	T-II	21.06	12/5/2006	5.75	0.00	15.31
USTCSFF-MW03	T-II	21.06	1/5/2007	5.26	0.00	15.80
USTCSFF-MW03	T-II	21.06	2/2/2007	5.57	0.00	15.49
USTCSFF-MW03	T-II	21.06	3/2/2007	4.46	0.00	16.60
USTCSFF-MW03	T-II	21.06	4/2/2007	6.72	0.00	14.34
USTCSFF-MW03	T-II	21.06	5/7/2007	6.95	0.00	14.11
USTCSFF-MW03	T-II	21.06	6/29/2007	7.52	0.00	13.54
USTCSFF-MW03	T-II	21.06	7/30/2007	5.84	0.00	15.22
USTCSFF-MW03	T-II	21.06	8/31/2007	6.60	0.00	14.46
USTCSFF-MW03	T-II	21.06	9/28/2007	7.91	0.00	13.15
USTCSFF-MW03	T-II	21.06	10/22/2007	7.62	0.00	13.44
USTCSFF-MW03	T-II	21.06	11/30/2007	8.14	0.00	12.92

Notes:
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3. DTW = Depth to water (in feet) from top of well casing.
4. Product thickness is measured in feet.
5. GWT = Groundwater Table
6. A zero ("0.00") in the product thickness column indicates no measureable thickness.
7. GWT Elevation corrected for measurable free product, if present.

Well No.	Type	TOC	Date	DTW	Product Thickness	Corrected GWT Elevation
USTCSFF-MW03	T-II	21.06	12/31/2007	6.61	0.00	14.45
USTCSFF-MW04	T-II	21.90	4/13/2006	8.27	0.00	13.63
USTCSFF-MW04	T-II	21.90	5/3/2006	7.86	0.00	14.04
USTCSFF-MW04	T-II	21.90	6/5/2006	8.48	0.00	13.42
USTCSFF-MW04	T-II	21.90	7/13/2006	8.11	0.00	13.79
USTCSFF-MW04	T-II	21.90	8/4/2006	7.45	0.00	14.45
USTCSFF-MW04	T-II	21.90	9/12/2006	7.01	0.00	14.89
USTCSFF-MW04	T-II	21.90	10/4/2006	8.11	0.00	13.79
USTCSFF-MW04	T-II	21.90	11/1/2006	7.91	0.00	13.99
USTCSFF-MW04	T-II	21.90	12/5/2006	7.72	0.00	14.18
USTCSFF-MW04	T-II	21.90	1/5/2007	7.58	0.00	14.32
USTCSFF-MW04	T-II	21.90	2/2/2007	7.49	0.00	14.41
USTCSFF-MW04	T-II	21.90	3/2/2007	7.48	0.00	14.42
USTCSFF-MW04	T-II	21.90	4/2/2007	8.01	0.00	13.89
USTCSFF-MW04	T-II	21.90	5/7/2007	8.40	0.00	13.50
USTCSFF-MW04	T-II	21.90	6/29/2007	9.25	0.00	12.65
USTCSFF-MW04	T-II	21.90	7/30/2007	8.76	0.00	13.14
USTCSFF-MW04	T-II	21.90	8/31/2007	6.30	0.00	15.60
USTCSFF-MW04	T-II	21.90	9/28/2007	10.10	0.00	11.80
USTCSFF-MW04	T-II	21.90	10/22/2007	10.33	0.00	11.57
USTCSFF-MW04	T-II	21.90	11/30/2007	10.34	0.00	11.56
USTCSFF-MW04	T-II	21.90	12/31/2007	9.48	0.00	12.42
USTCSFF-MW05	T-II	23.05	4/13/2006	8.59	0.00	14.46
USTCSFF-MW05	T-II	23.05	5/3/2006	8.06	0.00	14.99
USTCSFF-MW05	T-II	23.05	6/5/2006	8.64	0.00	14.41
USTCSFF-MW05	T-II	23.05	7/13/2006	8.16	0.00	14.89
USTCSFF-MW05	T-II	23.05	8/4/2006	6.99	0.00	16.06
USTCSFF-MW05	T-II	23.05	9/12/2006	7.16	0.00	15.89
USTCSFF-MW05	T-II	23.05	10/4/2006	8.42	0.00	14.63
USTCSFF-MW05	T-II	23.05	11/1/2006	7.99	0.00	15.06
USTCSFF-MW05	T-II	23.05	12/5/2006	8.09	0.00	14.96

Notes:
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4. Product thickness is measured in feet.
5. GWT = Groundwater Table
6. A zero ("0.00") in the product thickness column indicates no measureable thickness.
7. GWT Elevation corrected for measurable free product, if present.

Well No.	Type	TOC	Date	DTW	Product Thickness	Corrected GWT Elevation
USTCSFF-MW05	T-II	23.05	1/5/2007	7.90	0.00	15.15
USTCSFF-MW06	T-II	19.54	4/13/2006	6.52	0.00	13.02
USTCSFF-MW06	T-II	19.54	5/3/2006	6.36	0.00	13.18
USTCSFF-MW06	T-II	19.54	6/5/2006	6.50	0.00	13.04
USTCSFF-MW06	T-II	19.54	7/13/2006	6.55	0.00	12.99
USTCSFF-MW06	T-II	19.54	8/4/2006	6.00	0.00	13.54
USTCSFF-MW06	T-II	19.54	9/12/2006	6.06	0.00	13.48
USTCSFF-MW06	T-II	19.54	10/4/2006	6.51	0.00	13.03
USTCSFF-MW06	T-II	19.54	11/1/2006	6.23	0.00	13.31
USTCSFF-MW06	T-II	19.54	12/5/2006	6.32	0.00	13.22
USTCSFF-MW06	T-II	19.54	1/4/2007	6.22	0.00	13.32
USTCSFF-MW07	T-II	20.43	4/13/2006	4.65	0.00	15.78
USTCSFF-MW07	T-II	20.43	5/3/2006	5.08	0.00	15.35
USTCSFF-MW07	T-II	20.43	6/5/2006	6.90	0.00	13.53
USTCSFF-MW07	T-II	20.43	7/13/2006	6.67	0.00	13.76
USTCSFF-MW07	T-II	20.43	8/4/2006	4.41	0.00	16.02
USTCSFF-MW07	T-II	20.43	9/12/2006	4.88	0.00	15.55
USTCSFF-MW07	T-II	20.43	10/4/2006	6.60	0.00	13.83
USTCSFF-MW07	T-II	20.43	11/1/2006	4.77	0.00	15.66
USTCSFF-MW07	T-II	20.43	12/5/2006	4.57	0.00	15.86
USTCSFF-MW07	T-II	20.43	1/4/2007	4.36	0.00	16.07
USTCSFF-MW08	T-II	19.56	4/13/2006	4.70	0.00	14.86
USTCSFF-MW08	T-II	19.56	5/3/2006	4.43	0.00	15.13
USTCSFF-MW08	T-II	19.56	6/5/2006	5.46	0.00	14.10
USTCSFF-MW08	T-II	19.56	7/13/2006	5.30	0.00	14.26
USTCSFF-MW08	T-II	19.56	8/4/2006	4.05	0.00	15.51
USTCSFF-MW08	T-II	19.56	9/12/2006	4.21	0.00	15.35
USTCSFF-MW08	T-II	19.56	10/4/2006	5.30	0.00	14.26
USTCSFF-MW08	T-II	19.56	11/1/2006	4.03	0.00	15.53
USTCSFF-MW08	T-II	19.56	12/5/2006	4.11	0.00	15.45
USTCSFF-MW08	T-II	19.56	1/4/2007	3.85	0.00	15.71

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4. Product thickness is measured in feet.
5. GWT = Groundwater Table
6. A zero ("0.00") in the product thickness column indicates no measureable thickness.
7. GWT Elevation corrected for measurable free product, if present.

Well No.	Type	TOC	Date	DTW	Product Thickness	Corrected GWT Elevation
USTCSFF-MW09	T-II	19.49	9/21/2005	5.36	0.00	14.13
USTCSFF-MW09	T-II	19.49	10/31/2005	4.60	0.00	14.89
USTCSFF-MW09	T-II	19.49	11/18/2005	5.60	0.00	13.89
USTCSFF-MW09	T-II	19.49	12/7/2005	5.23	0.00	14.26
USTCSFF-MW09	T-II	19.49	1/18/2006	4.81	0.00	14.68
USTCSFF-MW09	T-II	19.49	2/28/2006	4.77	0.00	14.72
USTCSFF-MW09	T-II	19.49	3/10/2006	5.23	0.00	14.26
USTCSFF-MW09	T-II	19.49	4/13/2006	5.78	0.00	13.71
USTCSFF-MW09	T-II	19.49	5/3/2006	5.40	0.00	14.09
USTCSFF-MW09	T-II	19.49	6/5/2006	5.97	0.00	13.52
USTCSFF-MW09	T-II	19.49	7/13/2006	5.60	0.00	13.89
USTCSFF-MW09	T-II	19.49	8/4/2006	4.97	0.00	14.52
USTCSFF-MW09	T-II	19.49	9/12/2006	4.54	0.00	14.95
USTCSFF-MW09	T-II	19.49	10/4/2006	5.57	0.00	13.92
USTCSFF-MW09	T-II	19.49	11/1/2006	5.37	0.00	14.12
USTCSFF-MW09	T-II	19.49	12/5/2006	5.15	0.00	14.34
USTCSFF-MW09	T-II	19.49	1/4/2007	4.97	0.00	14.52
USTCSFF-MW10	T-II	20.22	9/21/2005	4.97	0.00	15.25
USTCSFF-MW10	T-II	20.22	10/31/2005	4.63	0.00	15.59
USTCSFF-MW10	T-II	20.22	11/18/2005	5.90	0.00	14.32
USTCSFF-MW10	T-II	20.22	12/7/2005	4.99	0.00	15.23
USTCSFF-MW10	T-II	20.22	1/18/2006	4.40	0.00	15.82
USTCSFF-MW10	T-II	20.22	2/28/2006	4.38	0.00	15.84
USTCSFF-MW10	T-II	20.22	3/10/2006	5.02	0.00	15.20
USTCSFF-MW10	T-II	20.22	4/13/2006	5.28	0.00	14.94
USTCSFF-MW10	T-II	20.22	5/3/2006	5.15	0.00	15.07
USTCSFF-MW10	T-II	20.22	6/5/2006	6.21	0.00	14.01
USTCSFF-MW10	T-II	20.22	7/13/2006	5.90	0.00	14.32
USTCSFF-MW10	T-II	20.22	8/4/2006	4.24	0.00	15.98
USTCSFF-MW10	T-II	20.22	9/12/2006	4.60	0.00	15.62
USTCSFF-MW10	T-II	20.22	10/4/2006	5.87	0.00	14.35

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4. Product thickness is measured in feet.
5. GWT = Groundwater Table
6. A zero ("0.00") in the product thickness column indicates no measureable thickness.
7. GWT Elevation corrected for measurable free product, if present.

Well No.	Type	TOC	Date	DTW	Product Thickness	Corrected GWT Elevation
USTCSFF-MW10	T-II	20.22	11/1/2006	4.83	0.00	15.39
USTCSFF-MW10	T-II	20.22	12/5/2006	4.92	0.00	15.30
USTCSFF-MW10	T-II	20.22	1/4/2007	4.62	0.00	15.60
USTCSFF-MW11	T-II	21.10	9/21/2005	6.85	0.00	14.25
USTCSFF-MW11	T-II	21.10	10/31/2005	5.96	0.00	15.14
USTCSFF-MW11	T-II	21.10	11/18/2005	7.08	0.00	14.02
USTCSFF-MW11	T-II	21.10	12/7/2005	6.57	0.00	14.53
USTCSFF-MW11	T-II	21.10	1/18/2006	6.08	0.00	15.02
USTCSFF-MW11	T-II	21.10	2/28/2006	6.02	0.00	15.08
USTCSFF-MW11	T-II	21.10	3/10/2006	6.54	0.00	14.56
USTCSFF-MW11	T-II	21.10	4/13/2006	7.10	0.00	14.00
USTCSFF-MW11	T-II	21.10	5/3/2006	6.72	0.00	14.38
USTCSFF-MW11	T-II	21.10	6/5/2006	7.45	0.00	13.65
USTCSFF-MW11	T-II	21.10	7/13/2006	7.07	0.00	14.03
USTCSFF-MW11	T-II	21.10	8/4/2006	6.40	0.00	14.70
USTCSFF-MW11	T-II	21.10	9/12/2006	5.93	0.00	15.17
USTCSFF-MW11	T-II	21.10	10/4/2006	7.08	0.00	14.02
USTCSFF-MW11	T-II	21.10	11/1/2006	6.77	0.00	14.33
USTCSFF-MW11	T-II	21.10	12/5/2006	6.56	0.00	14.54
USTCSFF-MW11	T-II	21.10	1/4/2007	6.27	0.00	14.83
USTCSFF-MW12	T-II	20.63	9/21/2005	6.36	0.00	14.27
USTCSFF-MW12	T-II	20.63	10/31/2005	6.46	0.00	14.17
USTCSFF-MW12	T-II	20.63	11/18/2005	7.00	0.00	13.63
USTCSFF-MW12	T-II	20.63	12/7/2005	6.85	0.00	13.78
USTCSFF-MW12	T-II	20.63	1/18/2006	5.63	0.00	15.00
USTCSFF-MW12	T-II	20.63	2/28/2006	6.48	0.00	14.15
USTCSFF-MW12	T-II	20.63	3/10/2006	6.89	0.00	13.74
USTCSFF-MW12	T-II	20.63	4/13/2006	6.88	0.00	13.75
USTCSFF-MW12	T-II	20.63	5/3/2006	6.70	0.00	13.93
USTCSFF-MW12	T-II	20.63	6/5/2006	6.87	0.00	13.76
USTCSFF-MW12	T-II	20.63	7/13/2006	6.75	0.00	13.88

Notes:
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3. DTW = Depth to water (in feet) from top of well casing.
4. Product thickness is measured in feet.
5. GWT = Groundwater Table
6. A zero ("0.00") in the product thickness column indicates no measureable thickness.
7. GWT Elevation corrected for measurable free product, if present.

Well No.	Type	TOC	Date	DTW	Product Thickness	Corrected GWT Elevation
USTCSFF-MW12	T-II	20.63	8/4/2006	6.07	0.00	14.56
USTCSFF-MW12	T-II	20.63	9/12/2006	6.11	0.00	14.52
USTCSFF-MW12	T-II	20.63	10/4/2006	6.75	0.00	13.88
USTCSFF-MW12	T-II	20.63	11/1/2006	6.75	0.00	13.88
USTCSFF-MW12	T-II	20.63	12/5/2006	6.60	0.00	14.03
USTCSFF-MW12	T-II	20.63	1/4/2007	6.42	0.00	14.21
USTCSFF-MW13	T-II	21.61	4/13/2006	8.98	1.59	13.93
USTCSFF-MW13	T-II	21.61	5/3/2006	7.37	0.06	14.29
USTCSFF-MW13	T-II	21.61	6/5/2006	7.76	0.30	14.10
USTCSFF-MW13	T-II	21.61	7/13/2006	7.37	0.15	14.36
USTCSFF-MW13	T-II	21.61	8/4/2006	7.19	0.19	14.58
USTCSFF-MW13	T-II	21.61	9/12/2006	7.01	0.45	14.97
USTCSFF-MW13	T-II	21.61	10/4/2006	7.75	0.35	14.15
USTCSFF-MW13	T-II	21.61	11/1/2006	7.80	0.03	13.83
USTCSFF-MW13	T-II	21.61	12/5/2006	7.55	0.09	14.13
USTCSFF-MW13	T-II	21.61	1/4/2007	7.37	0.13	14.35
USTCSFF-MW13	T-II	21.61	2/2/2007	7.18	0.28	14.66
USTCSFF-MW14	T-II	19.13	9/21/2005	5.03	0.00	14.10
USTCSFF-MW14	T-II	19.13	10/31/2005	5.01	0.00	14.12
USTCSFF-MW14	T-II	19.13	11/18/2005	5.77	0.00	13.36
USTCSFF-MW14	T-II	19.13	12/7/2005	5.45	0.00	13.68
USTCSFF-MW14	T-II	19.13	1/18/2006	5.12	0.00	14.01
USTCSFF-MW14	T-II	19.13	2/28/2006	5.00	0.00	14.13
USTCSFF-MW14	T-II	19.13	3/10/2006	5.43	0.00	13.70
USTCSFF-MW14	T-II	19.13	4/13/2006	5.56	0.00	13.57
USTCSFF-MW14	T-II	19.13	5/3/2006	5.35	0.00	13.78
USTCSFF-MW14	T-II	19.13	6/5/2006	5.73	0.00	13.40
USTCSFF-MW14	T-II	19.13	7/13/2006	5.62	0.00	13.51
USTCSFF-MW14	T-II	19.13	8/4/2006	5.02	0.00	14.11
USTCSFF-MW14	T-II	19.13	9/12/2006	5.00	0.00	14.13
USTCSFF-MW14	T-II	19.13	10/4/2006	5.70	0.00	13.43

Notes:
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4. Product thickness is measured in feet.
5. GWT = Groundwater Table
6. A zero ("0.00") in the product thickness column indicates no measureable thickness.
7. GWT Elevation corrected for measurable free product, if present.

Well No.	Type	TOC	Date	DTW	Product Thickness	Corrected GWT Elevation
USTCSFF-MW14	T-II	19.13	11/1/2006	5.20	0.00	13.93
USTCSFF-MW14	T-II	19.13	12/5/2006	5.31	0.00	13.82
USTCSFF-MW14	T-II	19.13	1/4/2007	4.95	0.00	14.18
USTCSFF-MW15	T-II	20.72	9/21/2005	6.79	0.00	13.93
USTCSFF-MW15	T-II	20.72	10/31/2005	6.22	0.00	14.50
USTCSFF-MW15	T-II	20.72	11/18/2005	7.12	0.00	13.60
USTCSFF-MW15	T-II	20.72	12/7/2005	6.88	0.00	13.84
USTCSFF-MW15	T-II	20.72	1/18/2006	6.48	0.00	14.24
USTCSFF-MW15	T-II	20.72	2/28/2006	6.33	0.00	14.39
USTCSFF-MW15	T-II	20.72	3/10/2006	6.82	0.00	13.90
USTCSFF-MW15	T-II	20.72	4/13/2006	7.28	0.00	13.44
USTCSFF-MW15	T-II	20.72	5/3/2006	6.95	0.00	13.77
USTCSFF-MW15	T-II	20.72	6/5/2006	7.48	0.00	13.24
USTCSFF-MW15	T-II	20.72	7/13/2006	7.11	0.00	13.61
USTCSFF-MW15	T-II	20.72	8/4/2006	6.47	0.00	14.25
USTCSFF-MW15	T-II	20.72	9/12/2006	6.06	0.00	14.66
USTCSFF-MW15	T-II	20.72	10/4/2006	7.02	0.00	13.70
USTCSFF-MW15	T-II	20.72	11/1/2006	6.87	0.00	13.85
USTCSFF-MW15	T-II	20.72	12/5/2006	6.70	0.00	14.02
USTCSFF-MW15	T-II	20.72	1/4/2007	6.43	0.00	14.29
USTCSFF-MW16	T-II	20.55	9/21/2005	6.55	0.00	14.00
USTCSFF-MW16	T-II	20.55	10/31/2005	6.58	0.00	13.97
USTCSFF-MW16	T-II	20.55	11/18/2005	7.00	0.00	13.55
USTCSFF-MW16	T-II	20.55	12/7/2005	6.67	0.00	13.88
USTCSFF-MW16	T-II	20.55	1/18/2006	6.40	0.00	14.15
USTCSFF-MW16	T-II	20.55	2/28/2006	6.28	0.00	14.27
USTCSFF-MW16	T-II	20.55	3/10/2006	6.74	0.00	13.81
USTCSFF-MW16	T-II	20.55	4/13/2006	6.81	0.00	13.74
USTCSFF-MW16	T-II	20.55	5/3/2006	6.50	0.00	14.05
USTCSFF-MW16	T-II	20.55	6/5/2006	6.64	0.00	13.91
USTCSFF-MW16	T-II	20.55	7/13/2006	6.73	0.00	13.82

Notes:
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3. DTW = Depth to water (in feet) from top of well casing.
4. Product thickness is measured in feet.
5. GWT = Groundwater Table
6. A zero ("0.00") in the product thickness column indicates no measureable thickness.
7. GWT Elevation corrected for measurable free product, if present.

Well No.	Type	TOC	Date	DTW	Product Thickness	Corrected GWT Elevation
USTCSFF-MW16	T-II	20.55	8/4/2006	6.55	0.00	14.00
USTCSFF-MW16	T-II	20.55	9/12/2006	6.60	0.00	13.95
USTCSFF-MW16	T-II	20.55	10/4/2006	6.90	0.00	13.65
USTCSFF-MW16	T-II	20.55	11/1/2006	6.87	0.00	13.68
USTCSFF-MW16	T-II	20.55	12/5/2006	6.57	0.00	13.98
USTCSFF-MW16	T-II	20.55	1/4/2007	6.45	0.00	14.10
USTCSFF-MW16	T-II	20.55	2/2/2007	6.37	0.00	14.18
USTCSFF-MW16	T-II	20.55	3/2/2007	6.43	0.00	14.12
USTCSFF-MW16	T-II	20.55	4/2/2007	6.90	0.00	13.65
USTCSFF-MW16	T-II	20.55	5/7/2007	6.86	0.00	13.69
USTCSFF-MW16	T-II	20.55	6/29/2007	7.21	0.00	13.34
USTCSFF-MW16	T-II	20.55	7/30/2007	6.81	0.00	13.74
USTCSFF-MW16	T-II	20.55	8/31/2007	6.75	0.00	13.80
USTCSFF-MW16	T-II	20.55	9/28/2007	7.28	0.00	13.27
USTCSFF-MW16	T-II	20.55	10/22/2007	7.72	0.00	12.83
USTCSFF-MW16	T-II	20.55	11/30/2007	7.96	0.00	12.59
USTCSFF-MW16	T-II	20.55	12/31/2007	7.23	0.00	13.32
USTCSFF-MW17	T-II	21.69	4/13/2006	5.22	0.00	16.47
USTCSFF-MW17	T-II	21.69	5/3/2006	4.68	0.00	17.01
USTCSFF-MW17	T-II	21.69	6/5/2006	5.69	0.00	16.00
USTCSFF-MW17	T-II	21.69	7/13/2006	5.45	0.00	16.24
USTCSFF-MW17	T-II	21.69	8/4/2006	4.20	0.00	17.49
USTCSFF-MW17	T-II	21.69	9/12/2006	4.45	0.00	17.24
USTCSFF-MW17	T-II	21.69	10/4/2006	5.90	0.00	15.79
USTCSFF-MW17	T-II	21.69	11/1/2006	4.91	0.00	16.78
USTCSFF-MW17	T-II	21.69	12/5/2006	4.75	0.00	16.94
USTCSFF-MW17	T-II	21.69	1/4/2007	4.25	0.00	17.44
USTCSFF-MW17	T-II	21.69	2/2/2007	4.01	0.00	17.68
USTCSFF-MW17	T-II	21.69	3/2/2007	3.95	0.00	17.74
USTCSFF-MW17	T-II	21.69	4/2/2007	5.40	0.00	16.29
USTCSFF-MW17	T-II	21.69	5/7/2007	6.06	0.00	15.63

Notes:
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4. Product thickness is measured in feet.
5. GWT = Groundwater Table
6. A zero ("0.00") in the product thickness column indicates no measureable thickness.
7. GWT Elevation corrected for measurable free product, if present.

Well No.	Type	TOC	Date	DTW	Product Thickness	Corrected GWT Elevation
USTCSFF-MW17	T-II	21.69	6/29/2007	6.82	0.00	14.87
USTCSFF-MW17	T-II	21.69	7/30/2007	5.75	0.00	15.94
USTCSFF-MW17	T-II	21.69	8/31/2007	6.84	0.00	14.85
USTCSFF-MW17	T-II	21.69	9/28/2007	7.57	0.00	14.12
USTCSFF-MW17	T-II	21.69	10/22/2007	8.23	0.00	13.46
USTCSFF-MW17	T-II	21.69	11/30/2007	7.61	0.00	14.08
USTCSFF-MW17	T-II	21.69	12/31/2007	6.98	0.00	14.71
USTCSFF-MW18	T-II	0.00	4/13/2006	2.17	0.00	-2.17
USTCSFF-MW20	T-II	18.63	5/3/2006	3.10	0.00	15.53
USTCSFF-MW20	T-II	18.63	6/5/2006	2.71	0.00	15.92
USTCSFF-MW20	T-II	18.63	7/13/2006	2.70	0.00	15.93
USTCSFF-MW20	T-II	18.63	8/4/2006	1.72	0.00	16.91
USTCSFF-MW20	T-II	18.63	9/12/2006	1.03	0.00	17.60
USTCSFF-MW20	T-II	18.63	10/4/2006	3.12	0.00	15.51
USTCSFF-MW20	T-II	18.63	11/1/2006	0.21	0.00	18.42
USTCSFF-MW20	T-II	18.63	12/5/2006	2.90	0.00	15.73
USTCSFF-MW20	T-II	18.63	1/4/2007	2.73	0.00	15.90
USTCSFF-MW21	T-II	20.94	9/21/2005	6.58	0.00	14.36
USTCSFF-MW21	T-II	20.94	10/31/2005	6.24	0.00	14.70
USTCSFF-MW21	T-II	20.94	11/18/2005	7.06	0.00	13.88
USTCSFF-MW21	T-II	20.94	12/7/2005	6.67	0.00	14.27
USTCSFF-MW21	T-II	20.94	1/18/2006	6.45	0.00	14.49
USTCSFF-MW21	T-II	20.94	2/28/2006	6.08	0.00	14.86
USTCSFF-MW21	T-II	20.94	3/10/2006	6.68	0.00	14.26
USTCSFF-MW21	T-II	20.94	4/13/2006	7.00	0.00	13.94
USTCSFF-MW21	T-II	20.94	5/3/2006	6.65	0.00	14.29
USTCSFF-MW21	T-II	20.94	6/5/2006	7.29	0.00	13.65
USTCSFF-MW21	T-II	20.94	7/13/2006	6.93	0.00	14.01
USTCSFF-MW21	T-II	20.94	8/4/2006	6.09	0.00	14.85
USTCSFF-MW21	T-II	20.94	9/12/2006	5.90	0.00	15.04
USTCSFF-MW21	T-II	20.94	10/4/2006	6.98	0.00	13.96

Notes:
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4. Product thickness is measured in feet.
5. GWT = Groundwater Table
6. A zero ("0.00") in the product thickness column indicates no measureable thickness.
7. GWT Elevation corrected for measurable free product, if present.

Well No.	Type	TOC	Date	DTW	Product Thickness	Corrected GWT Elevation
USTCSFF-MW21	T-II	20.94	11/1/2006	6.42	0.00	14.52
USTCSFF-MW21	T-II	20.94	12/5/2006	6.45	0.00	14.49
USTCSFF-MW21	T-II	20.94	1/4/2007	6.20	0.00	14.74
USTCSFF-MW22	T-II	20.15	9/21/2005	6.50	0.00	13.65
USTCSFF-MW22	T-II	20.15	10/31/2005	6.42	0.00	13.73
USTCSFF-MW22	T-II	20.15	11/18/2005	6.95	0.00	13.20
USTCSFF-MW22	T-II	20.15	12/7/2005	6.73	0.00	13.42
USTCSFF-MW22	T-II	20.15	1/18/2006	6.53	0.00	13.62
USTCSFF-MW22	T-II	20.15	2/28/2006	6.28	0.00	13.87
USTCSFF-MW22	T-II	20.15	3/10/2006	6.75	0.00	13.40
USTCSFF-MW22	T-II	20.15	4/13/2006	6.87	0.00	13.28
USTCSFF-MW22	T-II	20.15	5/3/2006	6.72	0.00	13.43
USTCSFF-MW22	T-II	20.15	6/5/2006	6.59	0.00	13.56
USTCSFF-MW22	T-II	20.15	7/13/2006	6.72	0.00	13.43
USTCSFF-MW22	T-II	20.15	8/4/2006	6.22	0.00	13.93
USTCSFF-MW22	T-II	20.15	9/12/2006	6.23	0.00	13.92
USTCSFF-MW22	T-II	20.15	10/4/2006	6.77	0.00	13.38
USTCSFF-MW22	T-II	20.15	11/1/2006	6.55	0.00	13.60
USTCSFF-MW22	T-II	20.15	12/5/2006	6.70	0.00	13.45
USTCSFF-MW22	T-II	20.15	1/4/2007	6.45	0.00	13.70
USTCSFF-MW24	T-II	20.61	9/21/2005	6.72	0.00	13.89
USTCSFF-MW24	T-II	20.61	10/31/2005	6.52	0.00	14.09
USTCSFF-MW24	T-II	20.61	11/18/2005	7.32	0.00	13.29
USTCSFF-MW24	T-II	20.61	12/7/2005	7.05	0.00	13.56
USTCSFF-MW24	T-II	20.61	1/18/2006	6.75	0.00	13.86
USTCSFF-MW24	T-II	20.61	2/28/2006	6.41	0.00	14.20
USTCSFF-MW24	T-II	20.61	3/10/2006	6.99	0.00	13.62
USTCSFF-MW24	T-II	20.61	4/13/2006	7.09	0.00	13.52
USTCSFF-MW24	T-II	20.61	5/3/2006	6.86	0.00	13.75
USTCSFF-MW24	T-II	20.61	6/5/2006	7.27	0.00	13.34
USTCSFF-MW24	T-II	20.61	7/13/2006	7.16	0.00	13.45

Notes:
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4. Product thickness is measured in feet.
5. GWT = Groundwater Table
6. A zero ("0.00") in the product thickness column indicates no measureable thickness.
7. GWT Elevation corrected for measurable free product, if present.

Well No.	Type	TOC	Date	DTW	Product Thickness	Corrected GWT Elevation
USTCSFF-MW24	T-II	20.61	8/4/2006	6.40	0.00	14.21
USTCSFF-MW24	T-II	20.61	9/12/2006	6.41	0.00	14.20
USTCSFF-MW24	T-II	20.61	10/4/2006	7.23	0.00	13.38
USTCSFF-MW24	T-II	20.61	11/1/2006	6.82	0.00	13.79
USTCSFF-MW24	T-II	20.61	12/5/2006	6.85	0.00	13.76
USTCSFF-MW24	T-II	20.61	1/4/2007	6.60	0.00	14.01
USTCSFF-MW25	T-II	19.07	10/4/2006	5.10	0.00	13.97
USTCSFF-MW25	T-II	19.07	11/1/2006	4.90	0.00	14.17
USTCSFF-MW25	T-II	19.07	12/5/2006	4.75	0.00	14.32
USTCSFF-MW25	T-II	19.07	1/4/2007	4.45	0.00	14.62
USTCSFF-MW26	T-II	19.02	10/4/2006	4.07	0.00	14.95
USTCSFF-MW26	T-II	19.02	11/1/2006	3.95	0.00	15.07
USTCSFF-MW26	T-II	19.02	12/5/2006	3.71	0.00	15.31
USTCSFF-MW26	T-II	19.02	1/4/2007	3.67	0.00	15.35
USTCSFF-MW26	T-II	19.02	6/29/2007	2.80	0.00	16.22
USTCSFF-MW26	T-II	19.02	7/30/2007	1.35	0.00	17.67
USTCSFF-MW26	T-II	19.02	8/31/2007	2.03	0.00	16.99
USTCSFF-MW26	T-II	19.02	9/28/2007	2.10	0.00	16.92
USTCSFF-MW26	T-II	19.02	10/22/2007	3.48	0.00	15.54
USTCSFF-MW26	T-II	19.02	11/30/2007	3.91	0.00	15.11
USTCSFF-MW26	T-II	19.02	12/31/2007	3.57	0.00	15.45
USTJP5-MW01	T-II	16.47	1/18/2006	2.73	0.00	13.74
USTJP5-MW01	T-II	16.47	2/28/2006	2.51	0.00	13.96
USTJP5-MW01	T-II	16.47	3/10/2006	2.97	0.00	13.50
USTJP5-MW01	T-II	16.47	4/13/2006	3.10	0.00	13.37
USTJP5-MW01	T-II	16.47	5/3/2006	2.90	0.00	13.57
USTJP5-MW01	T-II	16.47	6/5/2006	3.14	0.00	13.33
USTJP5-MW01	T-II	16.47	7/13/2006	2.96	0.00	13.51
USTJP5-MW01	T-II	16.47	8/4/2006	2.40	0.00	14.07
USTJP5-MW01	T-II	16.47	9/12/2006	2.37	0.00	14.10
USTJP5-MW01	T-II	16.47	10/4/2006	3.00	0.00	13.47

Notes:
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4. Product thickness is measured in feet.
5. GWT = Groundwater Table
6. A zero ("0.00") in the product thickness column indicates no measureable thickness.
7. GWT Elevation corrected for measurable free product, if present.

Well No.	Type	TOC	Date	DTW	Product Thickness	Corrected GWT Elevation
USTJP5-MW01	T-II	16.47	11/1/2006	2.76	0.00	13.71
USTJP5-MW01	T-II	16.47	12/5/2006	2.88	0.00	13.59
USTJP5-MW01	T-II	16.47	1/4/2007	2.67	0.00	13.80

Notes:
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3. DTW = Depth to water (in feet) from top of well casing.
4. Product thickness is measured in feet.
5. GWT = Groundwater Table
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7. GWT Elevation corrected for measurable free product, if present.

MCB CAMP LEJEUNE
UST MANAGEMENT PROGRAM
CALENDAR YEAR 2007

NAVFAC
Naval Facilities Engineering Command

LEGEND

Monitoring Wells
- Type I
- Type II
- Type III
- Pumping Well
- Unknown Well Type
- Water Supply Wells
- Above Ground Storage Tank
- Underground Storage Tank
- Railroad Tracks

Walls and Fences
- FENCE
- GATE
- WALL

Free Product
- Free Product Detected
- No Measurable Thickness
- Free Product Plume
- Buildings and Structures
- Demolished Structures
- Oil/Water Separators
- Slabs
- Roads
- Driveways
- Parking Lots
- Surface Water Bodies
- Creeks and Streams
- Historical Groundwater Flow Direction

Vegetation Cover
- Forestland
- Scrubland
- Wetland

Airfield Pavement
- HELIPAD
- RAMP
- RUNWAY
- SHLDR_OVERRUN
- TAXIWAY

NOTES

CATLIN
Engineers and Scientists

SITE Campbell Street Fuel Farm
FREE PRODUCT PLUME MAP
THIRD QUARTER 2006

FIGURE **10.1A**

Job No.:	Date:	Scale:	Drawn By:	Checked By:
207-002	JAN 2008	AS SHOWN	SAC	MEM

Well ID	Well Type	Date	Product Thickness	Units	Measured By
USTCSFF-MW13	T-II	7/13/2006	0.15000	ft	SOVEREIGN
USTCSFF-MW13	T-II	8/4/2006	0.19000	ft	SOVEREIGN
USTCSFF-MW13	T-II	9/12/2006	0.45000	ft	SOVEREIGN

N

100 50 0 100 Feet
SCALE

MCB CAMP LEJEUNE
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CALENDAR YEAR 2007

NAVFAC
Naval Facilities Engineering Command

N

USTCSFF-MW10
USTCSFF-MW11
USTCSFF-MW17
USTCSFF-MW07
USTCSFF-DW05
USTCSFF-MW13
USTCSFF-DW02
USTCSFF-MW04
USTCSFF-MW08
USTCSFF-MW12
USTCSFF-DW04
USTCSFF-MW09
USTCSFF-MW14
USTCSFF-MW16
USTCSFF-MW03
USTCSFF-DW01
USTCSFF-MW20
USTCSFF-MW05
USTAS142-MW01
USTCSFF-DW06
USTCSFF-MW21
USTCSFF-MW18
USTAS143-MW26
USTCSFF-MW24
USTCSFF-MW22
USTJP5-MW01
USTCSFF-MW15
USTCSFF-MW06
USTAS4151-MW13
USTAS4151-MW07
USTAS4151-MW12
USTAS4151-MW04
USTAS4151-MW03
USTAS4151-MW08
USTAS4151-MW05
USTAS4151-DW01A
USTAS4151-MW03A
USTAS4151-DW02
USTAS4151-MW02
USTAS4151-DW01
USTAS4151-MW09
USTAS4151-RW01
USTAS4151-MW01
USTAS4151-MW10
USTAS4151-MW11
USTAS4151-MW14
USTAS4151-MW02A
USTAS4151-MW06

AS144
AS145
SAS146
AS143
AS4136
AS4145
AS4151
AS553
SAS4155
SAS4164

CAMPBELL STREET
CANAL ST
WHITE STREET

100 50 0 100 Feet
SCALE

LEGEND

Monitoring Wells
- Type I
- Type II
- Type III
- Pumping Well
- Unknown Well Type
- Water Supply Wells
- Above Ground Storage Tank
- Underground Storage Tank
- Railroad Tracks

Walls and Fences
- FENCE
- GATE
- WALL

Free Product
- Free Product Detected
- No Measurable Thickness
- Free Product Plume
- Buildings and Structures
- Demolished Structures
- Oil/Water Separators
- Slabs
- Roads
- Driveways
- Parking Lots
- Surface Water Bodies
- Creeks and Streams
- Historical Groundwater Flow Direction

Vegetation Cover
- Forestland
- Scrubland
- Wetland

Airfield Pavement
- HELIPAD
- RAMP
- RUNWAY
- SHLDR_OVERRUN
- TAXIWAY

NOTES

Well ID	Well Type	Date	Product Thickness	Units	Measured By
USTCSFF-MW13	T-II	10/4/2006	0.35000	ft	SOVEREIGN
USTCSFF-MW13	T-II	11/1/2006	0.03000	ft	SOVEREIGN
USTCSFF-MW13	T-II	12/5/2006	0.09000	ft	SOVEREIGN

CATLIN
Engineers and Scientists

SITE Campbell Street Fuel Farm
FREE PRODUCT PLUME MAP
FOURTH QUARTER 2006

FIGURE
10.1B

Job No.:	Date:	Scale:	Drawn By:	Checked By:
207-002	JAN 2008	AS SHOWN	SAC	MEM

MCB CAMP LEJEUNE
UST MANAGEMENT PROGRAM
CALENDAR YEAR 2007

NAVFAC
Naval Facilities Engineering Command

LEGEND

Monitoring Wells
- Type I
- Type II
- Type III
- Pumping Well
- Unknown Well Type
- Water Supply Wells
- Above Ground Storage Tank
- Underground Storage Tank
- Railroad Tracks

Walls and Fences
- FENCE
- GATE
- WALL

Free Product
- Free Product Detected
- No Measurable Thickness
- Free Product Plume
- Buildings and Structures
- Demolished Structures
- Oil/Water Separators
- Slabs
- Roads
- Driveways
- Parking Lots
- Surface Water Bodies
- Creeks and Streams
- Historical Groundwater Flow Direction

Vegetation Cover
- Forestland
- Scrubland
- Wetland

Airfield Pavement
- HELIPAD
- RAMP
- RUNWAY
- SHLDR_OVERRUN
- TAXIWAY

NOTES

Well ID	Well Type	Date	Product Thickness	Units	Measured By
USTCSFF-MW13	T-II	1/4/2007	0.13000	ft	SOVEREIGN
USTCSFF-MW13	T-II	2/2/2007	0.28000	ft	SOVEREIGN

CATLIN
Engineers and Scientists

SITE Campbell Street Fuel Farm
FREE PRODUCT PLUME MAP
FIRST QUARTER 2007

FIGURE **10.1C**

Job No.:	Date:	Scale:	Drawn By:	Checked By:
207-002	JAN 2008	AS SHOWN	SAC	MEM

MCB CAMP LEJEUNE
UST MANAGEMENT PROGRAM
CALENDAR YEAR 2007

NAVFAC
Naval Facilities Engineering Command

LEGEND

Monitoring Wells
- Type I
- Type II
- Type III
- Pumping Well
- Unknown Well Type
- Water Supply Wells
- Above Ground Storage Tank
- Underground Storage Tank
- Railroad Tracks

Walls and Fences
- FENCE
- GATE
- WALL

Free Product
- Free Product Detected
- No Measurable Thickness
- Free Product Plume
- Buildings and Structures
- Demolished Structures
- Oil/Water Separators
- Slabs
- Roads
- Driveways
- Parking Lots
- Surface Water Bodies
- Creeks and Streams
- Historical Groundwater Flow Direction

Vegetation Cover
- Forestland
- Scrubland
- Wetland

Airfield Pavement
- HELIPAD
- RAMP
- RUNWAY
- SHLDR_OVERRUN
- TAXIWAY

NOTES

1. Free Product was not detected at this site in any of the wells gauged during this monitoring event.

CATLIN
Engineers and Scientists

SITE Campbell Street Fuel Farm
FREE PRODUCT PLUME MAP
SECOND QUARTER 2007

FIGURE **10.1D**

Job No.:	Date:	Scale:	Drawn By:	Checked By:
207-002	JAN 2008	AS SHOWN	SAC	MEM

100 50 0 100 Feet
SCALE

MCB CAMP LEJEUNE
UST MANAGEMENT PROGRAM
CALENDAR YEAR 2007

NAVFAC
Naval Facilities Engineering Command

LEGEND

Monitoring Wells
- Type I
- Type II
- Type III
- Pumping Well
- Unknown Well Type
- Water Supply Wells
- Above Ground Storage Tank
- Underground Storage Tank
- Railroad Tracks

Walls and Fences
- FENCE
- GATE
- WALL

Free Product
- Free Product Detected
- No Measurable Thickness
- Free Product Plume
- Buildings and Structures
- Demolished Structures
- Oil/Water Separators
- Slabs
- Roads
- Driveways
- Parking Lots
- Surface Water Bodies
- Creeks and Streams
- Historical Groundwater Flow Direction

Vegetation Cover
- Forestland
- Scrubland
- Wetland

Airfield Pavement
- HELIPAD
- RAMP
- RUNWAY
- SHLDR_OVERRUN
- TAXIWAY

NOTES

1. Free Product was not detected at this site in any of the wells gauged during this monitoring event.

CATLIN
Engineers and Scientists

SITE Campbell Street Fuel Farm
FREE PRODUCT PLUME MAP
THIRD QUARTER 2007

FIGURE **10.1E**

Job No.:	Date:	Scale:	Drawn By:	Checked By:
207-002	JAN 2008	AS SHOWN	SAC	MEM

100 50 0 100 Feet
SCALE

MCB CAMP LEJEUNE
UST MANAGEMENT PROGRAM
CALENDAR YEAR 2007

NAVFAC
Naval Facilities Engineering Command

LEGEND

Monitoring Wells
- Type I
- Type II
- Type III
- Pumping Well
- Unknown Well Type
- Water Supply Wells
- Above Ground Storage Tank
- Underground Storage Tank
- Railroad Tracks

Walls and Fences
- FENCE
- GATE
- WALL

Free Product
- Free Product Detected
- No Measurable Thickness
- Free Product Plume
- Buildings and Structures
- Demolished Structures
- Oil/Water Separators
- Slabs
- Roads
- Driveways
- Parking Lots
- Surface Water Bodies
- Creeks and Streams
- Historical Groundwater Flow Direction

Vegetation Cover
- Forestland
- Scrubland
- Wetland

Airfield Pavement
- HELIPAD
- RAMP
- RUNWAY
- SHLDR_OVERRUN
- TAXIWAY

NOTES

1. Free Product was not detected at this site in any of the wells gauged during this monitoring event.

CATLIN
Engineers and Scientists

SITE Campbell Street Fuel Farm
FREE PRODUCT PLUME MAP
FOURTH QUARTER 2007

FIGURE **10.1F**

Job No.:	Date:	Scale:	Drawn By:	Checked By:
207-002	JAN 2008	AS SHOWN	SAC	MEM

100 50 0 100 Feet
SCALE

SECTION 11.0

OF THE

ANNUAL MANAGEMENT REPORT
MCB CAMP LEJEUNE UST MANAGEMENT PROGRAM

MONITORING EVENT:

YEAR 2007
(JANUARY – DECEMBER 2007)

SITE-SPECIFIC MONITORING REPORT
FOR

SITE Rapid Refueler

NCDENR INCIDENT NO. 5668

11.0 EXECUTIVE SUMMARY
SITE Rapid Refueler

11.1 Site Information

11.1.1 Site Location: MCAS New River
11.1.2 Incident Number(s): 5668
11.1.3 UTM Coordinates (WGS84) (Meters): 276092.65 Easting, 3843771.97 Northing
11.1.4 Risk Classification: Intermediate
11.1.5 Land Use Classification: Industrial/Commercial
11.1.6 Source Type(s): JP5 fuel pipeline release

11.2 Monitoring Event Information

11.2.1 Sampling Performed By: Shaw
11.2.2 Date(s) of This Monitoring Event: October 2006 and March 2007
11.2.3 Date(s) of Previous Monitoring Event: September 2005 (Shaw) and April 2006 (Sovereign)
11.2.4 Reason(s) for This Monitoring Event: Track migration and attenuation of free-phase product and dissolved-phase plume.
11.2.5 Site Monitoring Status at Time of This Event: Annual sampling of approximately 45 on-site monitoring wells per EPA Methods 602 and 625.

11.3 Groundwater Hydraulics

11.3.1 Hydraulic Conductivity: 31 ft/day
11.3.2 Effective Porosity: Unknown
11.3.3 Hydraulic Gradient: Unknown
11.3.4 Average Linear Groundwater Flow Velocity: 1.6 ft/day
11.3.5 Groundwater Flow Direction: Northeast
11.3.6 Range of Measured Water Table Elevations: See Table 11.1.
11.3.7 Significant Changes from Previously Reported Data: None.

11.4 Free Product Plume

11.4.1 Free Product Present?: Yes
11.4.2 Free Product Thickness Measured: See Table 11.1
11.4.3 Plume Size and Location: See Figures 11.1A and 11.1B
11.4.4 Free Product Removed from Site This Period: Unknown
11.4.5 Significant Changes from Previously Reported Data: Minor variations in the extent of two of the three free product plumes at the subject site occurred comparing the September 2005 gauging data to the October 2006 gauging data. Specifically, monitoring wells USTRF-MW07, USTRF-MW09 and USTAS527-MW03 revealed measurable levels of free product during the October 2006 gauging event, however, these wells did not contain measurable free product during the September 2005 gauging event. Also, these three monitoring wells did not contain measurable free product during the March 2007 gauging event.

11.5 Dissolved-Phase Plume

11.5.1 Plume Concentrations: See Tables 11.2 and 11.3
11.5.2 Plume Size and Location: See Figures 11.2A through 11.3B
11.5.3 Significant Changes from Previously Reported Data: The current groundwater sample analytical results as compared to the analytical results from the April 2006 sampling event are discussed as follows:

EPA Method 602

1,2-Dichlorobenzene was detected above the 2L GWQS in monitoring well USTRF-MW22 in October 2006. This compound was not detected above the 2L GWQS during the April 2006 or the March 2007 monitoring events. It should be noted that it is surmised that the samples analyzed in October 2006 and labeled as USTAS522-MW04 and USTAS522-MW12 were actually collected from monitoring wells USTAS527-MW04 and USTAS527-MW12. EPA Method 602 plume boundaries are based on free product occurrence and analytical results, see Figures 11.2A and 11.2B.

EPA Method 625

Naphthalene and 2-Methylnaphthalene were detected above the 2L GWQSs in monitoring well USTRF-MW22 during the April 2006 monitoring event. Neither of these compounds were detected above the 2L GWQSs during the October 2006 or the March 007 monitoring events. Monitoring well USTRF-MW23 contained no EPA Method 625 compounds above the 2L GWQS during the April 2006 monitoring event. However, this monitoring well revealed Naphthalene and 2-Methylnaphthalene at concentrations above the 2L GWQSs during the March 2007 monitoring event. It should be noted that it is surmised that the samples analyzed in October 2006 and labeled as USTAS522-MW04 and USTAS522-MW12 were actually collected from monitoring wells USTAS527-MW04 and USTAS527-MW12. EPA Method 625 plume boundaries are based on free product occurrence and analytical results, see Figures 11.3A and 11.3B.

11.6 Potential Receptors

11.6.1 Contaminated Water Supply Well(s)?: No
11.6.2 Potable Water Supply Well Within 1,000 Feet of Source Area?: No
11.6.3 Any Water Supply Well Within 250 Feet of Source Area?: No
11.6.4 Surface Water Body Within 500 Feet?: No
11.6.5 Past Evidence of Vapors?: No
11.6.6 Significant Changes from Previously Reported Data?: None.

11.7 Remediation

11.7.1 Status: Modifications to the remediation system are being evaluated
11.7.2 Type: Free Product Recovery Wells, Free Product Recovery Trenches, AFVR and MMPE
11.7.3 Progress: On-going
11.7.4 Construction Contractor: Shaw
11.7.5 Operating Contractor: Shaw

11.8 Observations and Comments

Bis(2-ethylhexyl)phthalate was detected at concentrations above the 2L GWQS in several monitoring wells during the October 2006 and March 2007 monitoring events. It should be noted that this is not a petroleum-related compound. This compound is commonly used in plastics as a plasticizing agent. The occurrence of this compound is likely the result of sampling/laboratory artifact, resulting from the use of plastic sampling equipment and/or analytical instrument tubing.

Remedial system modifications should continue to be evaluated, as removal of free product is the first step in reducing the risk classification of the subject site. CATLIN recommends continuing with the current annual groundwater monitoring schedule. CATLIN did not receive MADEP VPH/EPH analytical results from the October 2006 or the March 2007 monitoring events. This analytical method should be added for the next annual monitoring event.

TABLE 11.1
SITE Rapid Refueler
FIELD MEASUREMENTS - JULY 2005 TO DECEMBER 2007

Well No.	Type	TOC	Date	DTW	Product Thickness	Corrected GWT Elevation
USTAS497-MW01	T-II	17.96	9/23/2005	5.80	0.00	12.16
USTAS497-MW01	T-II	17.96	4/18/2006	5.78	0.00	12.18
USTAS497-MW01	T-II	17.96	10/24/2006	6.80	0.00	11.16
USTAS497-MW01	T-II	17.96	3/19/2007	5.55	0.00	12.41
USTAS497-MW02	T-II	20.71	9/23/2005	7.81	0.00	12.90
USTAS497-MW02	T-II	20.71	4/18/2006	7.83	0.00	12.88
USTAS497-MW02	T-II	20.71	10/25/2006	8.10	0.00	12.61
USTAS497-MW02	T-II	20.71	3/19/2007	7.65	0.00	13.06
USTAS497-MW03	T-II	18.54	9/23/2005	6.27	0.00	12.27
USTAS497-MW03	T-II	18.54	4/22/2006	6.33	0.00	12.21
USTAS497-MW03	T-II	18.54	10/24/2006	6.70	0.00	11.84
USTAS497-MW03	T-II	18.54	3/20/2007	5.97	0.00	12.57
USTAS497-MW04	T-II	17.78	9/23/2005	6.30	0.00	11.48
USTAS497-MW04	T-II	17.78	4/22/2006	6.41	0.00	11.37
USTAS497-MW04	T-II	17.78	10/24/2006	6.40	0.00	11.38
USTAS497-MW04	T-II	17.78	3/19/2007	6.09	0.00	11.69
USTAS497-MW05	T-II	17.04	9/23/2005	8.03	2.72	11.24
USTAS497-MW05	T-II	17.04	10/24/2006		0.48	
USTAS497-MW05	T-II	17.04	10/25/2006	6.58		
USTAS497-MW05	T-II	17.04	3/19/2007	5.72	0.19	11.48
USTAS497-MW06	T-III	18.10	9/23/2005	6.68	0.00	11.42
USTAS497-MW06	T-III	18.10	4/18/2006	6.48	0.00	11.62
USTAS497-MW06	T-III	18.10	10/24/2006	6.80	0.00	11.30
USTAS497-MW06	T-III	18.10	3/19/2007	6.13	0.00	11.97

Notes:
1. T-II = Type II monitoring well
   T-III = Type III monitoring well
   RW = Recovery well
2. TOC = Top of casing elevation in feet relative to Mean Sea Level.
3. DTW = Depth to water (in feet) from top of well casing.
4. Product thickness is measured in feet.
5. GWT = Groundwater Table
6. A zero ("0.00") in the product thickness column indicates no measureable thickness.
7. GWT Elevation corrected for measurable free product, if present.

Well No.	Type	TOC	Date	DTW	Product Thickness	Corrected GWT Elevation
USTAS511-MW01	T-II	20.75	9/23/2005	6.75	0.00	14.00
USTAS511-MW01	T-II	20.75	4/19/2006	6.43	0.00	14.32
USTAS511-MW01	T-II	20.75	10/27/2006	7.60	0.00	13.15
USTAS511-MW01	T-II	20.75	3/27/2007	6.22	0.00	14.53
USTAS511-MW02	T-II	21.01	9/23/2005	6.83	0.00	14.18
USTAS511-MW02	T-II	21.01	4/19/2006	7.15	0.00	13.86
USTAS511-MW02	T-II	21.01	10/27/2006	7.20	0.00	13.81
USTAS511-MW02	T-II	21.01	3/27/2007	6.55	0.00	14.46
USTAS511-MW03	T-II	21.72	9/23/2005	7.55	0.00	14.17
USTAS511-MW03	T-II	21.72	4/17/2006	7.55	0.00	14.17
USTAS511-MW03	T-II	21.72	10/26/2006	7.80	0.00	13.92
USTAS511-MW03	T-II	21.72	3/26/2007	6.97	0.00	14.75
USTAS511-MW04	T-II	21.78	9/23/2005	6.52	0.00	15.26
USTAS511-MW04	T-II	21.78	4/22/2006	7.00	0.00	14.78
USTAS511-MW04	T-II	21.78	10/26/2006	7.30	0.00	14.48
USTAS511-MW04	T-II	21.78	3/26/2007	6.08	0.00	15.70
USTAS511-MW05	T-III	21.28	9/23/2005	7.41	0.00	13.87
USTAS511-MW05	T-III	21.28	4/17/2006	7.94	0.00	13.34
USTAS511-MW05	T-III	21.28	10/27/2006	7.40	0.00	13.88
USTAS511-MW05	T-III	21.28	3/27/2007	7.22	0.00	14.06
USTAS511-MW06	T-III	21.00	9/23/2005	7.32	0.00	13.68
USTAS511-MW06	T-III	21.00	4/17/2006	7.33	0.00	13.67
USTAS511-MW06	T-III	21.00	10/27/2006	7.70	0.00	13.30
USTAS511-MW06	T-III	21.00	3/27/2007	6.94	0.00	14.06
USTAS511-MW07	T-III	21.69	9/23/2005	7.85	0.00	13.84
USTAS511-MW07	T-III	21.69	4/17/2006	7.97	0.00	13.72
USTAS511-MW07	T-III	21.69	10/26/2006	8.10	0.00	13.59
USTAS511-MW07	T-III	21.69	3/26/2007	7.45	0.00	14.24
USTAS511-MW08	T-II	21.62	9/23/2005	7.06	0.00	14.56

Notes:
1. T-II = Type II monitoring well
   T-III = Type III monitoring well
   RW = Recovery well
2. TOC = Top of casing elevation in feet relative to Mean Sea Level.
3. DTW = Depth to water (in feet) from top of well casing.
4. Product thickness is measured in feet.
5. GWT = Groundwater Table
6. A zero ("0.00") in the product thickness column indicates no measureable thickness.
7. GWT Elevation corrected for measurable free product, if present.

Well No.	Type	TOC	Date	DTW	Product Thickness	Corrected GWT Elevation
USTAS511-MW08	T-II	21.62	4/22/2006	7.40	0.00	14.22
USTAS511-MW08	T-II	21.62	10/26/2006	7.70	0.00	13.92
USTAS511-MW08	T-II	21.62	3/26/2007	6.58	0.00	15.04
USTAS527-DW02	T-III	21.46	10/25/2006	3.30	0.00	18.16
USTAS527-DW02	T-III	21.46	3/28/2007	3.60	0.00	17.86
USTAS527-DW06	T-III	20.33	10/30/2006	6.10	0.00	14.23
USTAS527-DW06	T-III	20.33	3/28/2007	4.12	0.00	16.21
USTAS527-MW02	T-III		9/23/2005	9.11	0.00	
USTAS527-MW02	T-III		4/17/2006	5.68	0.00	
USTAS527-MW03	T-II	21.72	9/23/2005	3.39	0.00	18.33
USTAS527-MW03	T-II	21.72	4/17/2006	9.32	0.00	12.40
USTAS527-MW03	T-II	21.72	10/25/2006	9.50	0.01	12.23
USTAS527-MW03	T-II	21.72	3/28/2007	9.57	0.00	12.15
USTAS527-MW04	T-II	22.85	9/23/2005	10.56	0.00	12.29
USTAS527-MW04	T-II	22.85	4/17/2006	10.95	0.00	11.90
USTAS527-MW04	T-II	22.85	3/28/2007	10.28	0.00	12.57
USTAS527-MW06	T-III		9/23/2005	5.15	0.00	
USTAS527-MW06	T-III		4/22/2006	5.88	0.00	
USTAS527-MW08	T-II		9/23/2005	8.42	0.00	
USTAS527-MW10	T-II	21.77	9/23/2005	8.32	0.00	13.45
USTAS527-MW10	T-II	21.77	4/19/2006	8.72	0.00	13.05
USTAS527-MW10	T-II	21.77	10/25/2006	9.60	0.00	12.17
USTAS527-MW10	T-II	21.77	3/27/2007	8.11	0.00	13.66
USTAS527-MW12	T-II	21.44	9/23/2005	7.86	0.00	13.58
USTAS527-MW12	T-II	21.44	4/22/2006	7.99	0.00	13.45
USTAS527-MW12	T-II	21.44	10/26/2006	8.20	0.00	13.24
USTAS527-MW12	T-II	21.44	3/26/2007	7.50	0.00	13.94
USTAS527-MW15	T-II	21.86	9/23/2005	9.98	1.63	13.22

Notes:
1. T-II = Type II monitoring well
   T-III = Type III monitoring well
   RW = Recovery well
2. TOC = Top of casing elevation in feet relative to Mean Sea Level.
3. DTW = Depth to water (in feet) from top of well casing.
4. Product thickness is measured in feet.
5. GWT = Groundwater Table
6. A zero ("0.00") in the product thickness column indicates no measureable thickness.
7. GWT Elevation corrected for measurable free product, if present.

Well No.	Type	TOC	Date	DTW	Product Thickness	Corrected GWT Elevation
USTAS527-MW15	T-II	21.86	10/25/2006	7.86	0.56	14.46
USTAS527-MW15	T-II	21.86	3/19/2007	7.30	0.60	15.05
USTAS527-MW16	T-II	20.14	9/23/2005	6.32	0.00	13.82
USTAS527-MW16	T-II	20.14	4/19/2006	6.60	0.00	13.54
USTAS527-MW16	T-II	20.14	10/26/2006	6.50	0.00	13.64
USTAS527-MW16	T-II	20.14	3/26/2007	5.86	0.00	14.28
USTRF-MW01G	RW	18.23	9/23/2005	8.15	2.31	11.97
USTRF-MW01G	RW	18.23	10/25/2006	6.57	0.22	11.84
USTRF-MW01G	RW	18.23	3/19/2007	5.91	0.11	12.41
USTRF-MW02	T-II	13.89	9/23/2005	4.98	0.00	8.91
USTRF-MW02	T-II	13.89	4/22/2006	4.60	0.00	9.29
USTRF-MW02	T-II	13.89	3/21/2007	4.42	0.00	9.47
USTRF-MW02G	RW	17.65	9/23/2005	4.02	0.22	13.81
USTRF-MW02G	RW	17.65	10/25/2006	5.34	0.00	12.31
USTRF-MW02G	RW	17.65	3/19/2007	5.13	0.02	12.54
USTRF-MW03	T-II	13.68	9/23/2005	5.32	0.00	8.36
USTRF-MW03	T-II	13.68	4/22/2006	5.00	0.00	8.68
USTRF-MW03	T-II	13.68	3/21/2007	4.85	0.00	8.83
USTRF-MW03G	RW	17.40	9/23/2005	6.56	0.00	10.84
USTRF-MW03G	RW	17.40	4/18/2006	6.58	0.00	10.82
USTRF-MW03G	RW	17.40	10/30/2006	6.90	0.00	10.50
USTRF-MW03G	RW	17.40	3/22/2007	6.50	0.00	10.90
USTRF-MW04G	RW	17.94	9/23/2005	3.72	0.00	14.22
USTRF-MW04G	RW	17.94	4/18/2006	4.96	0.00	12.98
USTRF-MW04G	RW	17.94	10/31/2006	5.20	0.00	12.74
USTRF-MW04G	RW	17.94	3/22/2007	5.67	0.00	12.27
USTRF-MW05	T-II	17.80	9/23/2005	6.89	0.00	10.91
USTRF-MW05	T-II	17.80	4/22/2006	7.80	0.00	10.00
USTRF-MW05	T-II	17.80	10/30/2006	7.90	0.00	9.90

Notes:
1. T-II = Type II monitoring well
   T-III = Type III monitoring well
   RW = Recovery well
2. TOC = Top of casing elevation in feet relative to Mean Sea Level.
3. DTW = Depth to water (in feet) from top of well casing.
4. Product thickness is measured in feet.
5. GWT = Groundwater Table
6. A zero ("0.00") in the product thickness column indicates no measureable thickness.
7. GWT Elevation corrected for measurable free product, if present.

Well No.	Type	TOC	Date	DTW	Product Thickness	Corrected GWT Elevation
USTRF-MW05	T-II	17.80	3/20/2007	7.02	0.00	10.78
USTRF-MW05G	RW	19.33	9/23/2005	6.72	0.04	12.64
USTRF-MW05G	RW	19.33	10/25/2006	7.52	0.01	11.82
USTRF-MW05G	RW	19.33	3/19/2007	7.01	0.04	12.35
USTRF-MW06	T-II	15.54	9/23/2005	4.17	0.00	11.37
USTRF-MW06	T-II	15.54	4/19/2006	4.25	0.00	11.29
USTRF-MW06	T-II	15.54	10/25/2006	4.40	0.00	11.14
USTRF-MW06	T-II	15.54	3/22/2007	4.00	0.00	11.54
USTRF-MW06G	RW	18.16	9/23/2005	6.72	0.00	11.44
USTRF-MW06G	RW	18.16	4/18/2006	6.81	0.00	11.35
USTRF-MW06G	RW	18.16	10/31/2006	6.90	0.00	11.26
USTRF-MW06G	RW	18.16	3/23/2007	6.45	0.00	11.71
USTRF-MW07	T-II	17.59	9/23/2005	6.57	0.00	11.02
USTRF-MW07	T-II	17.59	4/19/2006	6.70	0.00	10.89
USTRF-MW07	T-II	17.59	10/25/2006	8.80	0.01	8.80
USTRF-MW07	T-II	17.59	3/22/2007	6.40	0.00	11.19
USTRF-MW09	T-II	20.81	9/23/2005	8.30	0.00	12.51
USTRF-MW09	T-II	20.81	4/19/2006	8.82	0.00	11.99
USTRF-MW09	T-II	20.81	10/25/2006	8.90	0.01	11.92
USTRF-MW09	T-II	20.81	3/23/2007	8.38	0.00	12.43
USTRF-MW10	T-II	17.38	9/23/2005	6.50	0.00	10.88
USTRF-MW10	T-II	17.38	4/22/2006	6.51	0.00	10.87
USTRF-MW10	T-II	17.38	10/30/2006	6.70	0.00	10.68
USTRF-MW10	T-II	17.38	3/30/2007	6.33	0.00	11.05
USTRF-MW11	T-II	17.11	9/23/2005	6.37	0.00	10.74
USTRF-MW11	T-II	17.11	4/18/2006	6.31	0.00	10.80
USTRF-MW11	T-II	17.11	10/30/2006	6.50	0.00	10.61
USTRF-MW11	T-II	17.11	3/20/2007	6.20	0.00	10.91
USTRF-MW12	T-II	16.86	9/23/2005	4.71	0.73	12.75

Notes:
1. T-II = Type II monitoring well
   T-III = Type III monitoring well
   RW = Recovery well
2. TOC = Top of casing elevation in feet relative to Mean Sea Level.
3. DTW = Depth to water (in feet) from top of well casing.
4. Product thickness is measured in feet.
5. GWT = Groundwater Table
6. A zero ("0.00") in the product thickness column indicates no measureable thickness.
7. GWT Elevation corrected for measurable free product, if present.

Well No.	Type	TOC	Date	DTW	Product Thickness	Corrected GWT Elevation
USTRF-MW12	T-II	16.86	10/25/2006	5.66	0.01	11.21
USTRF-MW12	T-II	16.86	3/19/2007	4.96	0.04	11.93
USTRF-MW14	T-III	17.21	9/23/2005	5.98	0.00	11.23
USTRF-MW14	T-III	17.21	4/17/2006	5.86	0.00	11.35
USTRF-MW14	T-III	17.21	10/30/2006	6.20	0.00	11.01
USTRF-MW14	T-III	17.21	3/20/2007	5.32	0.00	11.89
USTRF-MW15	RW	17.16	9/23/2005	6.41	0.00	10.75
USTRF-MW15	RW	17.16	4/17/2006	6.37	0.00	10.79
USTRF-MW15	RW	17.16	10/30/2006	6.60	0.00	10.56
USTRF-MW15	RW	17.16	3/20/2007	6.25	0.00	10.91
USTRF-MW16	T-II	20.02	9/23/2005	8.34	0.13	11.79
USTRF-MW16	T-II	20.02	10/25/2006	8.54	0.18	11.63
USTRF-MW16	T-II	20.02	3/19/2007	8.28	0.08	11.81
USTRF-MW17	T-II	16.80	9/23/2005	2.09	0.00	14.71
USTRF-MW17	T-II	16.80	4/22/2006	2.83	0.00	13.97
USTRF-MW17	T-II	16.80	3/19/2007	2.40	0.00	14.40
USTRF-MW18	T-II	20.89	9/23/2005	11.01	2.96	12.31
USTRF-MW18	T-II	20.89	10/25/2006	10.29	1.86	12.13
USTRF-MW18	T-II	20.89	3/19/2007	10.92	3.21	12.60
USTRF-MW19	T-II	21.08	9/23/2005	12.17	5.67	13.56
USTRF-MW19	T-II	21.08	3/19/2007	7.79	0.97	14.09
USTRF-MW20	T-II	21.70	9/23/2005	9.72	1.22	12.98
USTRF-MW20	T-II	21.70	10/25/2006	8.07	0.11	13.72
USTRF-MW20	T-II	21.70	3/19/2007	7.30	0.05	14.44
USTRF-MW21	T-II	20.92	9/23/2005	4.10	0.00	16.82
USTRF-MW21	T-II	20.92	4/19/2006	4.48	0.00	16.44
USTRF-MW21	T-II	20.92	10/31/2006	5.60	0.00	15.32
USTRF-MW21	T-II	20.92	3/22/2007	4.23	0.00	16.69

Notes:
1. T-II = Type II monitoring well
   T-III = Type III monitoring well
   RW = Recovery well
2. TOC = Top of casing elevation in feet relative to Mean Sea Level.
3. DTW = Depth to water (in feet) from top of well casing.
4. Product thickness is measured in feet.
5. GWT = Groundwater Table
6. A zero ("0.00") in the product thickness column indicates no measureable thickness.
7. GWT Elevation corrected for measurable free product, if present.

Well No.	Type	TOC	Date	DTW	Product Thickness	Corrected GWT Elevation
USTRF-MW22	T-II	21.13	9/23/2005	7.00	0.00	14.13
USTRF-MW22	T-II	21.13	4/22/2006	7.92	0.00	13.21
USTRF-MW22	T-II	21.13	10/27/2006	7.90	0.00	13.23
USTRF-MW22	T-II	21.13	3/27/2007	7.47	0.00	13.66
USTRF-MW23	T-II	19.35	9/23/2005	6.91	0.00	12.44
USTRF-MW23	T-II	19.35	4/19/2006	7.57	0.00	11.78
USTRF-MW23	T-II	19.35	10/31/2006	7.10	0.00	12.25
USTRF-MW23	T-II	19.35	3/22/2007	6.55	0.00	12.80

Notes:
1. T-II = Type II monitoring well
   T-III = Type III monitoring well
   RW = Recovery well
2. TOC = Top of casing elevation in feet relative to Mean Sea Level.
3. DTW = Depth to water (in feet) from top of well casing.
4. Product thickness is measured in feet.
5. GWT = Groundwater Table
6. A zero ("0.00") in the product thickness column indicates no measureable thickness.
7. GWT Elevation corrected for measurable free product, if present.

TABLE 11.2

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GROUNDWATER LABORATORY ANALYTICAL RESULTS - JULY 2005 TO DECEMBER 2007

EPA METHOD 602

Contaminant of Concern →		1,2-Dichlorobenzene	1,3-Dichlorobenzene	Dichlorobenzene-1,4	Benzene	Ethylbenzene	Methyl Tert Butyl Ether	Toluene	Total Xylenes	Xylenes (total)
Well ID	**Date**									
2L GWQS		24	170	1.4	1	550	200	1000	530	530
GCL		72500	61500	39500	5000	550000	200000	257500	87500	87500
USTAS497-MW01	9/27/2005	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
USTAS497-MW01	4/18/2006	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
USTAS497-MW01	10/24/2006	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
USTAS497-MW01	3/19/2007	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
USTAS497-MW02	9/27/2005	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
USTAS497-MW02	4/18/2006	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
USTAS497-MW02	10/25/2006	BQL	BQL	BQL	BQL	BQL	BQL	1.10	BQL	BQL
USTAS497-MW02	3/19/2007	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL

Notes:
1. 2L GWQS = North Carolina groundwater quality standard 15A NCAC 2L .0202
2. GCL = Gross Contamination Levels for ground water as defined in "Guidelines for Assessment and Corrective Action" North Carolina Underground Storage Tank Section, effective July 1, 2001
3. All units are in ug/L (Micrograms per Liter)
4. BQL = Below Quantitaion Limits
5. A zero in the 2L GWQS row indicates the 2L Standard is equal to the laboratory detection limit
6. A zero in the GCL row indicates a GCL has not been established
7. Shaded concentrations indicate exceedance of the 2L GWQS
8. Only compounds which were detected are shown on table. All other compounds were BQL
9. Please note, compounds reported in duplicate columns are the result of multiple laboratories submitting EDD data with different nomenclature. Unless BQL appears in both duplicate columns, a detection is present and that concentration is reported numerically.

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SITE Rapid Refueler

GROUNDWATER LABORATORY ANALYTICAL RESULTS - JULY 2005 TO DECEMBER 2007

EPA METHOD 602

Contaminant of Concern →		1,2-Dichlorobenzene	1,3-Dichlorobenzene	Dichlorobenzene-1,4	Benzene	Ethylbenzene	Methyl Tert Butyl Ether	Toluene	Total Xylenes	Xylenes (total)
Well ID	Date									
2L GWQS		24	170	1.4	1	550	200	1000	530	530
GCL		72500	61500	39500	5000	550000	200000	257500	87500	87500
USTAS497-MW03	9/27/2005	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
USTAS497-MW03	4/22/2006	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
USTAS497-MW03	10/24/2006	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
USTAS497-MW03	3/20/2007	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
USTAS497-MW04	9/27/2005	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
USTAS497-MW04	4/22/2006	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
USTAS497-MW04	10/24/2006	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
USTAS497-MW04	3/19/2007	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL

Notes:
1. 2L GWQS = North Carolina groundwater quality standard 15A NCAC 2L .0202
2. GCL = Gross Contamination Levels for ground water as defined in "Guidelines for Assessment and Corrective Action" North Carolina Underground Storage Tank Section, effective July 1, 2001
3. All units are in ug/L (Micrograms per Liter)
4. BQL = Below Quantitaion Limits
5. A zero in the 2L GWQS row indicates the 2L Standard is equal to the laboratory detection limit
6. A zero in the GCL row indicates a GCL has not been established
7. Shaded concentrations indicate exceedance of the 2L GWQS
8. Only compounds which were detected are shown on table. All other compounds were BQL
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TABLE 11.2

SITE Rapid Refueler

GROUNDWATER LABORATORY ANALYTICAL RESULTS - JULY 2005 TO DECEMBER 2007

EPA METHOD 602

Contaminant of Concern →		1,2-Dichlorobenzene	1,3-Dichlorobenzene	Dichlorobenzene-1,4	Benzene	Ethylbenzene	Methyl Tert Butyl Ether	Toluene	Total Xylenes	Xylenes (total)
Well ID	**Date**									
2L GWQS		24	170	1.4	1	550	200	1000	530	530
GCL		72500	61500	39500	5000	550000	200000	257500	87500	87500
USTAS497-MW06	9/27/2005	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
USTAS497-MW06	4/18/2006	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
USTAS497-MW06	10/24/2006	BQL	BQL	BQL	BQL	BQL	BQL	0.76	BQL	BQL
USTAS497-MW06	3/19/2007	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
USTAS511-MW01	9/29/2005	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
USTAS511-MW01	4/19/2006	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
USTAS511-MW01	10/27/2006	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
USTAS511-MW01	3/27/2007	0.97	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL

Notes:
1. 2L GWQS = North Carolina groundwater quality standard 15A NCAC 2L .0202
2. GCL = Gross Contamination Levels for ground water as defined in "Guidelines for Assessment and Corrective Action" North Carolina Underground Storage Tank Section, effective July 1, 2001
3. All units are in ug/L (Micrograms per Liter)
4. BQL = Below Quantitaion Limits
5. A zero in the 2L GWQS row indicates the 2L Standard is equal to the laboratory detection limit
6. A zero in the GCL row indicates a GCL has not been established
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TABLE 11.2

SITE Rapid Refueler

GROUNDWATER LABORATORY ANALYTICAL RESULTS - JULY 2005 TO DECEMBER 2007

EPA METHOD 602

Contaminant of Concern →		1,2-Dichlorobenzene	1,3-Dichlorobenzene	Dichlorobenzene-1,4	Benzene	Ethylbenzene	Methyl Tert Butyl Ether	Toluene	Total Xylenes	Xylenes (total)
Well ID	Date									
2L GWQS		24	170	1.4	1	550	200	1000	530	530
GCL		72500	61500	39500	5000	550000	200000	257500	87500	87500
USTAS511-MW02	9/29/2005	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
USTAS511-MW02	4/19/2006	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
USTAS511-MW02	10/27/2006	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
USTAS511-MW02	3/27/2007	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
USTAS511-MW03	9/27/2005	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
USTAS511-MW03	4/17/2006	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
USTAS511-MW03	10/26/2006	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
USTAS511-MW03	3/26/2007	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL

Notes:
1. 2L GWQS = North Carolina groundwater quality standard 15A NCAC 2L .0202
2. GCL = Gross Contamination Levels for ground water as defined in "Guidelines for Assessment and Corrective Action" North Carolina Underground Storage Tank Section, effective July 1, 2001
3. All units are in ug/L (Micrograms per Liter)
4. BQL = Below Quantitaion Limits
5. A zero in the 2L GWQS row indicates the 2L Standard is equal to the laboratory detection limit
6. A zero in the GCL row indicates a GCL has not been established
7. Shaded concentrations indicate exceedance of the 2L GWQS
8. Only compounds which were detected are shown on table. All other compounds were BQL
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TABLE 11.2

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GROUNDWATER LABORATORY ANALYTICAL RESULTS - JULY 2005 TO DECEMBER 2007

EPA METHOD 602

Contaminant of Concern →		1,2-Dichlorobenzene	1,3-Dichlorobenzene	Dichlorobenzene-1,4	Benzene	Ethylbenzene	Methyl Tert Butyl Ether	Toluene	Total Xylenes	Xylenes (total)
Well ID	**Date**									
2L GWQS		24	170	1.4	1	550	200	1000	530	530
GCL		72500	61500	39500	5000	550000	200000	257500	87500	87500
USTAS511-MW04	9/27/2005	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
USTAS511-MW04	4/22/2006	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
USTAS511-MW04	10/26/2006	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
USTAS511-MW04	3/26/2007	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
USTAS511-MW05	9/29/2005	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
USTAS511-MW05	4/17/2006	BQL	BQL	BQL	0.69	BQL	BQL	BQL	BQL	BQL
USTAS511-MW05	10/27/2006	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
USTAS511-MW05	3/27/2007	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL

Notes:
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3. All units are in ug/L (Micrograms per Liter)
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5. A zero in the 2L GWQS row indicates the 2L Standard is equal to the laboratory detection limit
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TABLE 11.2

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GROUNDWATER LABORATORY ANALYTICAL RESULTS - JULY 2005 TO DECEMBER 2007

EPA METHOD 602

Contaminant of Concern →		1,2-Dichlorobenzene	1,3-Dichlorobenzene	Dichlorobenzene-1,4	Benzene	Ethylbenzene	Methyl Tert Butyl Ether	Toluene	Total Xylenes	Xylenes (total)
Well ID	**Date**									
2L GWQS		24	170	1.4	1	550	200	1000	530	530
GCL		72500	61500	39500	5000	550000	200000	257500	87500	87500
USTAS511-MW06	9/29/2005	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
USTAS511-MW06	4/17/2006	BQL	BQL	BQL	0.71	BQL	BQL	BQL	BQL	BQL
USTAS511-MW06	10/27/2006	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
USTAS511-MW06	3/27/2007	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
USTAS511-MW07	9/27/2005	0.54	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
USTAS511-MW07	4/17/2006	BQL	BQL	BQL	0.75	0.99	BQL	3.00	BQL	5.30
USTAS511-MW07	10/26/2006	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
USTAS511-MW07	3/26/2007	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL

Notes:
1. 2L GWQS = North Carolina groundwater quality standard 15A NCAC 2L .0202
2. GCL = Gross Contamination Levels for ground water as defined in "Guidelines for Assessment and Corrective Action" North Carolina Underground Storage Tank Section, effective July 1, 2001
3. All units are in ug/L (Micrograms per Liter)
4. BQL = Below Quantitaion Limits
5. A zero in the 2L GWQS row indicates the 2L Standard is equal to the laboratory detection limit
6. A zero in the GCL row indicates a GCL has not been established
7. Shaded concentrations indicate exceedance of the 2L GWQS
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TABLE 11.2

SITE Rapid Refueler

GROUNDWATER LABORATORY ANALYTICAL RESULTS - JULY 2005 TO DECEMBER 2007

EPA METHOD 602

Contaminant of Concern →		1,2-Dichlorobenzene	1,3-Dichlorobenzene	Dichlorobenzene-1,4	Benzene	Ethylbenzene	Methyl Tert Butyl Ether	Toluene	Total Xylenes	Xylenes (total)
Well ID	Date									
2L GWQS		24	170	1.4	1	550	200	1000	530	530
GCL		72500	61500	39500	5000	550000	200000	257500	87500	87500
USTAS511-MW08	9/27/2005	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
USTAS511-MW08	4/22/2006	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
USTAS511-MW08	10/26/2006	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
USTAS511-MW08	3/26/2007	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
USTAS522-MW03	9/29/2005	BQL	BQL	BQL	BQL	BQL	BQL	1.10	BQL	BQL
USTAS522-MW04	9/29/2005	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
USTAS522-MW04	10/31/2006	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
USTAS522-MW08	9/27/2005	40.00	BQL	BQL	13.80	59.40	BQL	42.10	BQL	262.00
USTAS522-MW10	9/29/2005	BQL	BQL	BQL	BQL	3.70	BQL	BQL	BQL	3.10

Notes:
1. 2L GWQS = North Carolina groundwater quality standard 15A NCAC 2L .0202
2. GCL = Gross Contamination Levels for ground water as defined in "Guidelines for Assessment and Corrective Action" North Carolina Underground Storage Tank Section, effective July 1, 2001
3. All units are in ug/L (Micrograms per Liter)
4. BQL = Below Quantitaion Limits
5. A zero in the 2L GWQS row indicates the 2L Standard is equal to the laboratory detection limit
6. A zero in the GCL row indicates a GCL has not been established
7. Shaded concentrations indicate exceedance of the 2L GWQS
8. Only compounds which were detected are shown on table. All other compounds were BQL
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GROUNDWATER LABORATORY ANALYTICAL RESULTS - JULY 2005 TO DECEMBER 2007

EPA METHOD 602

Contaminant of Concern →		1,2-Dichlorobenzene	1,3-Dichlorobenzene	Dichlorobenzene-1,4	Benzene	Ethylbenzene	Methyl Tert Butyl Ether	Toluene	Total Xylenes	Xylenes (total)
Well ID	**Date**									
2L GWQS		24	170	1.4	1	550	200	1000	530	530
GCL		72500	61500	39500	5000	550000	200000	257500	87500	87500
USTAS522-MW12	9/27/2005	BQL	BQL	BQL	2.40	6.90	1.10	BQL	BQL	7.10
USTAS522-MW12	10/26/2006	BQL	BQL	BQL	3.20	15.40	2.10	BQL	5.50	BQL
USTAS527-DW02	9/29/2005	BQL	BQL	BQL	7.00	61.20	BQL	0.75	BQL	41.20
USTAS527-DW02	3/28/2007	BQL	BQL	BQL	8.20	79.80	BQL	0.80	33.30	BQL
USTAS527-DW06	9/27/2005	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
USTAS527-DW06	10/30/2006	BQL	BQL	BQL	0.66	BQL	BQL	BQL	BQL	BQL
USTAS527-DW06	3/28/2007	BQL	BQL	BQL	0.79	BQL	BQL	BQL	BQL	BQL
USTAS527-MW02	4/17/2006	BQL	BQL	BQL	4.20	40.20	BQL	BQL	BQL	10.30

Notes:
1. 2L GWQS = North Carolina groundwater quality standard 15A NCAC 2L .0202
2. GCL = Gross Contamination Levels for ground water as defined in "Guidelines for Assessment and Corrective Action" North Carolina Underground Storage Tank Section, effective July 1, 2001
3. All units are in ug/L (Micrograms per Liter)
4. BQL = Below Quantitaion Limits
5. A zero in the 2L GWQS row indicates the 2L Standard is equal to the laboratory detection limit
6. A zero in the GCL row indicates a GCL has not been established
7. Shaded concentrations indicate exceedance of the 2L GWQS
8. Only compounds which were detected are shown on table. All other compounds were BQL
9. Please note, compounds reported in duplicate columns are the result of multiple laboratories submitting EDD data with different nomenclature. Unless BQL appears in both duplicate columns, a detection is present and that concentration is reported numerically.

TABLE 11.2

SITE Rapid Refueler

GROUNDWATER LABORATORY ANALYTICAL RESULTS - JULY 2005 TO DECEMBER 2007

EPA METHOD 602

Contaminant of Concern →		1,2-Dichlorobenzene	1,3-Dichlorobenzene	Dichlorobenzene-1,4	Benzene	Ethylbenzene	Methyl Tert Butyl Ether	Toluene	Total Xylenes	Xylenes (total)
Well ID	**Date**									
2L GWQS		24	170	1.4	1	550	200	1000	530	530
GCL		72500	61500	39500	5000	550000	200000	257500	87500	87500
USTAS527-MW03	4/17/2006	BQL	BQL	BQL	BQL	BQL	BQL	0.54	BQL	BQL
USTAS527-MW03	3/28/2007	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
USTAS527-MW04	4/17/2006	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
USTAS527-MW04	3/28/2007	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
USTAS527-MW06	4/22/2006	BQL	BQL	BQL	0.64	BQL	BQL	BQL	BQL	BQL
USTAS527-MW10	4/19/2006	BQL	BQL	BQL	BQL	6.70	BQL	1.10	BQL	5.50
USTAS527-MW10	3/27/2007	13.70	BQL	BQL	BQL	9.10	BQL	1.40	5.50	BQL
USTAS527-MW12	4/22/2006	BQL	BQL	BQL	**3.30**	15.70	1.40	BQL	BQL	10.10
USTAS527-MW12	3/26/2007	BQL	BQL	BQL	**3.80**	18.60	3.10	BQL	6.70	BQL

Notes:
1. 2L GWQS = North Carolina groundwater quality standard 15A NCAC 2L .0202
2. GCL = Gross Contamination Levels for ground water as defined in "Guidelines for Assessment and Corrective Action" North Carolina Underground Storage Tank Section, effective July 1, 2001
3. All units are in ug/L (Micrograms per Liter)
4. BQL = Below Quantitaion Limits
5. A zero in the 2L GWQS row indicates the 2L Standard is equal to the laboratory detection limit
6. A zero in the GCL row indicates a GCL has not been established
7. Shaded concentrations indicate exceedance of the 2L GWQS
8. Only compounds which were detected are shown on table. All other compounds were BQL
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TABLE 11.2

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GROUNDWATER LABORATORY ANALYTICAL RESULTS - JULY 2005 TO DECEMBER 2007

EPA METHOD 602

Contaminant of Concern →		1,2-Dichlorobenzene	1,3-Dichlorobenzene	Dichlorobenzene-1,4	Benzene	Ethylbenzene	Methyl Tert Butyl Ether	Toluene	Total Xylenes	Xylenes (total)
Well ID	**Date**									
2L GWQS		24	170	1.4	1	550	200	1000	530	530
GCL		72500	61500	39500	5000	550000	200000	257500	87500	87500
USTRF-MW02	9/27/2005	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
USTRF-MW02	4/22/2006	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
USTRF-MW02	3/21/2007	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
USTRF-MW03	9/27/2005	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
USTRF-MW03	4/22/2006	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
USTRF-MW03	3/21/2007	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
USTRF-MW03G	9/28/2005	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
USTRF-MW03G	4/18/2006	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
USTRF-MW03G	10/30/2006	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
USTRF-MW03G	3/22/2007	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL

Notes:
1. 2L GWQS = North Carolina groundwater quality standard 15A NCAC 2L .0202
2. GCL = Gross Contamination Levels for ground water as defined in "Guidelines for Assessment and Corrective Action" North Carolina Underground Storage Tank Section, effective July 1, 2001
3. All units are in ug/L (Micrograms per Liter)
4. BQL = Below Quantitaion Limits
5. A zero in the 2L GWQS row indicates the 2L Standard is equal to the laboratory detection limit
6. A zero in the GCL row indicates a GCL has not been established
7. Shaded concentrations indicate exceedance of the 2L GWQS
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TABLE 11.2

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GROUNDWATER LABORATORY ANALYTICAL RESULTS - JULY 2005 TO DECEMBER 2007

EPA METHOD 602

Contaminant of Concern →		1,2-Dichlorobenzene	1,3-Dichlorobenzene	Dichlorobenzene-1,4	Benzene	Ethylbenzene	Methyl Tert Butyl Ether	Toluene	Total Xylenes	Xylenes (total)
Well ID	**Date**									
	2L GWQS	24	170	1.4	1	550	200	1000	530	530
	GCL	72500	61500	39500	5000	550000	200000	257500	87500	87500
USTRF-MW04G	9/29/2005	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
USTRF-MW04G	4/18/2006	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
USTRF-MW04G	10/31/2006	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
USTRF-MW04G	3/22/2007	1.20	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
USTRF-MW05	9/27/2005	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
USTRF-MW05	4/22/2006	BQL	BQL	BQL	BQL	2.40	BQL	BQL	BQL	BQL
USTRF-MW05	10/30/2006	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
USTRF-MW05	3/20/2007	0.69	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL

Notes:
1. 2L GWQS = North Carolina groundwater quality standard 15A NCAC 2L .0202
2. GCL = Gross Contamination Levels for ground water as defined in "Guidelines for Assessment and Corrective Action" North Carolina Underground Storage Tank Section, effective July 1, 2001
3. All units are in ug/L (Micrograms per Liter)
4. BQL = Below Quantitaion Limits
5. A zero in the 2L GWQS row indicates the 2L Standard is equal to the laboratory detection limit
6. A zero in the GCL row indicates a GCL has not been established
7. Shaded concentrations indicate exceedance of the 2L GWQS
8. Only compounds which were detected are shown on table. All other compounds were BQL
9. Please note, compounds reported in duplicate columns are the result of multiple laboratories submitting EDD data with different nomenclature. Unless BQL appears in both duplicate columns, a detection is present and that concentration is reported numerically.

TABLE 11.2

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GROUNDWATER LABORATORY ANALYTICAL RESULTS - JULY 2005 TO DECEMBER 2007

EPA METHOD 602

Contaminant of Concern →		1,2-Dichlorobenzene	1,3-Dichlorobenzene	Dichlorobenzene-1,4	Benzene	Ethylbenzene	Methyl Tert Butyl Ether	Toluene	Total Xylenes	Xylenes (total)
Well ID	Date									
2L GWQS		24	170	1.4	1	550	200	1000	530	530
GCL		72500	61500	39500	5000	550000	200000	257500	87500	87500
USTRF-MW06	9/28/2005	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
USTRF-MW06	4/19/2006	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
USTRF-MW06	3/22/2007	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
USTRF-MW06G	9/29/2005	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
USTRF-MW06G	4/18/2006	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
USTRF-MW06G	10/31/2006	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
USTRF-MW06G	3/23/2007	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
USTRF-MW07	9/28/2005	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
USTRF-MW07	4/19/2006	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
USTRF-MW07	3/22/2007	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL

Notes:
1. 2L GWQS = North Carolina groundwater quality standard 15A NCAC 2L .0202
2. GCL = Gross Contamination Levels for ground water as defined in "Guidelines for Assessment and Corrective Action" North Carolina Underground Storage Tank Section, effective July 1, 2001
3. All units are in ug/L (Micrograms per Liter)
4. BQL = Below Quantitaion Limits
5. A zero in the 2L GWQS row indicates the 2L Standard is equal to the laboratory detection limit
6. A zero in the GCL row indicates a GCL has not been established
7. Shaded concentrations indicate exceedance of the 2L GWQS
8. Only compounds which were detected are shown on table. All other compounds were BQL
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TABLE 11.2

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GROUNDWATER LABORATORY ANALYTICAL RESULTS - JULY 2005 TO DECEMBER 2007

EPA METHOD 602

Contaminant of Concern →		1,2-Dichlorobenzene	1,3-Dichlorobenzene	Dichlorobenzene-1,4	Benzene	Ethylbenzene	Methyl Tert Butyl Ether	Toluene	Total Xylenes	Xylenes (total)
Well ID	**Date**									
2L GWQS		24	170	1.4	1	550	200	1000	530	530
GCL		72500	61500	39500	5000	550000	200000	257500	87500	87500
USTRF-MW09	9/28/2005	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
USTRF-MW09	4/19/2006	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
USTRF-MW09	3/23/2007	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
USTRF-MW10	9/28/2005	BQL	BQL	BQL	**18.80**	78.10	BQL	0.86	BQL	16.30
USTRF-MW10	4/22/2006	BQL	BQL	BQL	**8.80**	62.30	BQL	0.59	BQL	22.60
USTRF-MW10	10/30/2006	BQL	BQL	BQL	**7.40**	59.60	1.40	BQL	20.40	BQL
USTRF-MW10	3/20/2007	**28.70**	BQL	BQL	**6.50**	58.80	3.30	0.54	30.10	BQL

Notes:
1. 2L GWQS = North Carolina groundwater quality standard 15A NCAC 2L .0202
2. GCL = Gross Contamination Levels for ground water as defined in "Guidelines for Assessment and Corrective Action" North Carolina Underground Storage Tank Section, effective July 1, 2001
3. All units are in ug/L (Micrograms per Liter)
4. BQL = Below Quantitaion Limits
5. A zero in the 2L GWQS row indicates the 2L Standard is equal to the laboratory detection limit
6. A zero in the GCL row indicates a GCL has not been established
7. Shaded concentrations indicate exceedance of the 2L GWQS
8. Only compounds which were detected are shown on table. All other compounds were BQL
9. Please note, compounds reported in duplicate columns are the result of multiple laboratories submitting EDD data with different nomenclature. Unless BQL appears in both duplicate columns, a detection is present and that concentration is reported numerically.

TABLE 11.2

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GROUNDWATER LABORATORY ANALYTICAL RESULTS - JULY 2005 TO DECEMBER 2007

EPA METHOD 602

Contaminant of Concern →		1,2-Dichlorobenzene	1,3-Dichlorobenzene	Dichlorobenzene-1,4	Benzene	Ethylbenzene	Methyl Tert Butyl Ether	Toluene	Total Xylenes	Xylenes (total)
Well ID	Date									
2L GWQS		24	170	1.4	1	550	200	1000	530	530
GCL		72500	61500	39500	5000	550000	200000	257500	87500	87500
USTRF-MW11	9/27/2005	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
USTRF-MW11	4/18/2006	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
USTRF-MW11	10/30/2006	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
USTRF-MW11	3/20/2007	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
USTRF-MW14	9/27/2005	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
USTRF-MW14	4/17/2006	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
USTRF-MW14	10/30/2006	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
USTRF-MW14	3/20/2007	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL

Notes:
1. 2L GWQS = North Carolina groundwater quality standard 15A NCAC 2L .0202
2. GCL = Gross Contamination Levels for ground water as defined in "Guidelines for Assessment and Corrective Action" North Carolina Underground Storage Tank Section, effective July 1, 2001
3. All units are in ug/L (Micrograms per Liter)
4. BQL = Below Quantitaion Limits
5. A zero in the 2L GWQS row indicates the 2L Standard is equal to the laboratory detection limit
6. A zero in the GCL row indicates a GCL has not been established
7. Shaded concentrations indicate exceedance of the 2L GWQS
8. Only compounds which were detected are shown on table. All other compounds were BQL
9. Please note, compounds reported in duplicate columns are the result of multiple laboratories submitting EDD data with different nomenclature. Unless BQL appears in both duplicate columns, a detection is present and that concentration is reported numerically.

TABLE 11.2

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GROUNDWATER LABORATORY ANALYTICAL RESULTS - JULY 2005 TO DECEMBER 2007

EPA METHOD 602

Contaminant of Concern →		1,2-Dichlorobenzene	1,3-Dichlorobenzene	Dichlorobenzene-1,4	Benzene	Ethylbenzene	Methyl Tert Butyl Ether	Toluene	Total Xylenes	Xylenes (total)
Well ID	**Date**									
2L GWQS		24	170	1.4	1	550	200	1000	530	530
GCL		72500	61500	39500	5000	550000	200000	257500	87500	87500
USTRF-MW15	9/27/2005	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
USTRF-MW15	4/17/2006	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
USTRF-MW15	10/30/2006	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
USTRF-MW15	3/20/2007	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
USTRF-MW17	9/27/2005	BQL	BQL	BQL	3.70	29.40	4.10	BQL	BQL	5.30
USTRF-MW17	4/22/2006	BQL	BQL	BQL	5.10	28.40	16.50	BQL	BQL	2.40
USTRF-MW17	3/19/2007	16.60	2.40	BQL	4.60	40.90	7.40	BQL	BQL	BQL

Notes:
1. 2L GWQS = North Carolina groundwater quality standard 15A NCAC 2L .0202
2. GCL = Gross Contamination Levels for ground water as defined in "Guidelines for Assessment and Corrective Action" North Carolina Underground Storage Tank Section, effective July 1, 2001
3. All units are in ug/L (Micrograms per Liter)
4. BQL = Below Quantitaion Limits
5. A zero in the 2L GWQS row indicates the 2L Standard is equal to the laboratory detection limit
6. A zero in the GCL row indicates a GCL has not been established
7. Shaded concentrations indicate exceedance of the 2L GWQS
8. Only compounds which were detected are shown on table. All other compounds were BQL
9. Please note, compounds reported in duplicate columns are the result of multiple laboratories submitting EDD data with different nomenclature. Unless BQL appears in both duplicate columns, a detection is present and that concentration is reported numerically.

TABLE 11.2

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GROUNDWATER LABORATORY ANALYTICAL RESULTS - JULY 2005 TO DECEMBER 2007

EPA METHOD 602

Contaminant of Concern →		1,2-Dichlorobenzene	1,3-Dichlorobenzene	Dichlorobenzene-1,4	Benzene	Ethylbenzene	Methyl Tert Butyl Ether	Toluene	Total Xylenes	Xylenes (total)
Well ID	**Date**									
2L GWQS		24	170	1.4	1	550	200	1000	530	530
GCL		72500	61500	39500	5000	550000	200000	257500	87500	87500
USTRF-MW21	9/28/2005	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
USTRF-MW21	4/19/2006	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
USTRF-MW21	10/31/2006	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
USTRF-MW21	3/22/2007	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
USTRF-MW22	9/29/2005	BQL	10.00	BQL	**3.40**	16.40	BQL	BQL	BQL	28.50
USTRF-MW22	4/22/2006	BQL	BQL	BQL	0.66	6.50	BQL	BQL	BQL	4.60
USTRF-MW22	10/27/2006	14.60	7.00	**31.50**	0.54	5.60	BQL	0.69	10.40	BQL
USTRF-MW22	3/27/2007	BQL	BQL	BQL	0.89	4.20	BQL	BQL	4.60	BQL

Notes:
1. 2L GWQS = North Carolina groundwater quality standard 15A NCAC 2L .0202
2. GCL = Gross Contamination Levels for ground water as defined in "Guidelines for Assessment and Corrective Action" North Carolina Underground Storage Tank Section, effective July 1, 2001
3. All units are in ug/L (Micrograms per Liter)
4. BQL = Below Quantitaion Limits
5. A zero in the 2L GWQS row indicates the 2L Standard is equal to the laboratory detection limit
6. A zero in the GCL row indicates a GCL has not been established
7. Shaded concentrations indicate exceedance of the 2L GWQS
8. Only compounds which were detected are shown on table. All other compounds were BQL
9. Please note, compounds reported in duplicate columns are the result of multiple laboratories submitting EDD data with different nomenclature. Unless BQL appears in both duplicate columns, a detection is present and that concentration is reported numerically.

TABLE 11.2

SITE Rapid Refueler

GROUNDWATER LABORATORY ANALYTICAL RESULTS - JULY 2005 TO DECEMBER 2007

EPA METHOD 602

Contaminant of Concern →		1,2-Dichlorobenzene	1,3-Dichlorobenzene	Dichlorobenzene-1,4	Benzene	Ethylbenzene	Methyl Tert Butyl Ether	Toluene	Total Xylenes	Xylenes (total)
Well ID	Date									
2L GWQS		24	170	1.4	1	550	200	1000	530	530
GCL		72500	61500	39500	5000	550000	200000	257500	87500	87500
USTRF-MW23	9/28/2005	BQL	BQL	BQL	BQL	10.70	BQL	BQL	BQL	2.00
USTRF-MW23	4/19/2006	BQL	BQL	BQL	BQL	8.20	BQL	BQL	BQL	4.40
USTRF-MW23	10/31/2006	BQL	BQL	BQL	0.53	18.90	BQL	BQL	8.80	BQL
USTRF-MW23	3/22/2007	BQL	BQL	BQL	BQL	7.60	BQL	BQL	BQL	BQL

Notes:
1. 2L GWQS = North Carolina groundwater quality standard 15A NCAC 2L .0202
2. GCL = Gross Contamination Levels for ground water as defined in "Guidelines for Assessment and Corrective Action" North Carolina Underground Storage Tank Section, effective July 1, 2001
3. All units are in ug/L (Micrograms per Liter)
4. BQL = Below Quantitaion Limits
5. A zero in the 2L GWQS row indicates the 2L Standard is equal to the laboratory detection limit
6. A zero in the GCL row indicates a GCL has not been established
7. Shaded concentrations indicate exceedance of the 2L GWQS
8. Only compounds which were detected are shown on table. All other compounds were BQL
9. Please note, compounds reported in duplicate columns are the result of multiple laboratories submitting EDD data with different nomenclature. Unless BQL appears in both duplicate columns, a detection is present and that concentration is reported numerically.

TABLE 11.3

SITE Rapid Refueler

GROUNDWATER LABORATORY ANALYTICAL RESULTS - JULY 2005 TO DECEMBER 2007

EPA METHOD 625

Contaminant of Concern →		2,4-Dimethylphenol	2,6-Dinitrotoluene	Methylnaphthalene-2	3&4-Methylphenol	bis(2-Ethylhexyl)phthalate	Dibenzofuran	Diethyl phthalate	Isophorone	Naphthalene
Well ID	Date									
2L GWQS		140	0	14	3.5	2.5	28	5000	36.8	21
GCL		140000	0	12500	0	2500	28000	0	0	15500
USTAS497-MW01	9/27/2005	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
USTAS497-MW01	4/18/2006	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
USTAS497-MW01	10/24/2006	BQL	BQL	BQL	BQL	15.00	BQL	BQL	BQL	BQL
USTAS497-MW01	3/19/2007	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
USTAS497-MW02	9/27/2005	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
USTAS497-MW02	4/18/2006	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
USTAS497-MW02	10/25/2006	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
USTAS497-MW02	3/19/2007	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
USTAS497-MW03	9/27/2005	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
USTAS497-MW03	4/22/2006	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
USTAS497-MW03	10/24/2006	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
USTAS497-MW03	3/20/2007	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL

Notes:
1. 2L GWQS = North Carolina groundwater quality standard 15A NCAC 2L .0202
2. GCL = Gross Contamination Levels for ground water as defined in "Guidelines for Assessment and Corrective Action" North Carolina Underground Storage Tank Section, effective July 1, 2001
3. All units are in ug/L (Micrograms per Liter)
4. BQL = Below Quantitaion Limits
5. A zero in the 2L GWQS row indicates the 2L Standard is equal to the laboratory detection limit
6. A zero in the GCL row indicates a GCL has not been established
7. Shaded concentrations indicate exceedance of the 2L GWQS
8. Only compounds which were detected are shown on table. All other compounds were BQL

TABLE 11.3

SITE Rapid Refueler

GROUNDWATER LABORATORY ANALYTICAL RESULTS - JULY 2005 TO DECEMBER 2007

EPA METHOD 625

Contaminant of Concern →		2,4-Dimethylphenol	2,6-Dinitrotoluene	Methylnaphthalene-2	3&4-Methylphenol	bis(2-Ethylhexyl)phthalate	Dibenzofuran	Diethyl phthalate	Isophorone	Naphthalene
Well ID	**Date**									
2L GWQS		140	0	14	3.5	2.5	28	5000	36.8	21
GCL		140000	0	12500	0	2500	28000	0	0	15500
USTAS497-MW04	9/27/2005	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
USTAS497-MW04	4/22/2006	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
USTAS497-MW04	10/24/2006	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
USTAS497-MW04	3/19/2007	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
USTAS497-MW06	9/27/2005	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
USTAS497-MW06	4/18/2006	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
USTAS497-MW06	10/24/2006	BQL	BQL	BQL	BQL	8.60	BQL	BQL	BQL	BQL
USTAS497-MW06	3/19/2007	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
USTAS511-MW01	9/29/2005	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
USTAS511-MW01	4/19/2006	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
USTAS511-MW01	10/27/2006	BQL	BQL	BQL	BQL	5.70	BQL	BQL	BQL	BQL
USTAS511-MW01	3/27/2007	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL

Notes:
1. 2L GWQS = North Carolina groundwater quality standard 15A NCAC 2L .0202
2. GCL = Gross Contamination Levels for ground water as defined in "Guidelines for Assessment and Corrective Action" North Carolina Underground Storage Tank Section, effective July 1, 2001
3. All units are in ug/L (Micrograms per Liter)
4. BQL = Below Quantitaion Limits
5. A zero in the 2L GWQS row indicates the 2L Standard is equal to the laboratory detection limit
6. A zero in the GCL row indicates a GCL has not been established
7. Shaded concentrations indicate exceedance of the 2L GWQS
8. Only compounds which were detected are shown on table. All other compounds were BQL

TABLE 11.3

SITE Rapid Refueler

GROUNDWATER LABORATORY ANALYTICAL RESULTS - JULY 2005 TO DECEMBER 2007

EPA METHOD 625

Contaminant of Concern →		2,4-Dimethylphenol	2,6-Dinitrotoluene	Methylnaphthalene-2	3&4-Methylphenol	bis(2-Ethylhexyl)phthalate	Dibenzofuran	Diethyl phthalate	Isophorone	Naphthalene
Well ID	Date									
2L GWQS		140	0	14	3.5	2.5	28	5000	36.8	21
GCL		140000	0	12500	0	2500	28000	0	0	15500
USTAS511-MW02	9/29/2005	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
USTAS511-MW02	4/19/2006	BQL	BQL	BQL	BQL	5.80	BQL	BQL	BQL	BQL
USTAS511-MW02	10/27/2006	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
USTAS511-MW02	3/27/2007	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
USTAS511-MW03	9/27/2005	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
USTAS511-MW03	4/17/2006	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
USTAS511-MW03	10/31/2006	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
USTAS511-MW03	3/26/2007	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
USTAS511-MW04	9/27/2005	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
USTAS511-MW04	4/22/2006	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
USTAS511-MW04	10/26/2006	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
USTAS511-MW04	3/26/2007	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL

Notes:
1. 2L GWQS = North Carolina groundwater quality standard 15A NCAC 2L .0202
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3. All units are in ug/L (Micrograms per Liter)
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7. Shaded concentrations indicate exceedance of the 2L GWQS
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TABLE 11.3

SITE Rapid Refueler

GROUNDWATER LABORATORY ANALYTICAL RESULTS - JULY 2005 TO DECEMBER 2007

EPA METHOD 625

Contaminant of Concern →		2,4-Dimethylphenol	2,6-Dinitrotoluene	Methylnaphthalene-2	3&4-Methylphenol	bis(2-Ethylhexyl)phthalate	Dibenzofuran	Diethyl phthalate	Isophorone	Naphthalene
Well ID	Date									
2L GWQS		140	0	14	3.5	2.5	28	5000	36.8	21
GCL		140000	0	12500	0	2500	28000	0	0	15500
USTAS511-MW05	9/29/2005	BQL	BQL	BQL	BQL	14.10	BQL	BQL	BQL	BQL
USTAS511-MW05	4/17/2006	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
USTAS511-MW05	10/27/2006	BQL	BQL	BQL	BQL	BQL	BQL	BQL	2.50	BQL
USTAS511-MW05	3/27/2007	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
USTAS511-MW06	9/29/2005	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
USTAS511-MW06	4/17/2006	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
USTAS511-MW06	10/27/2006	BQL	BQL	BQL	BQL	BQL	BQL	BQL	1.20	BQL
USTAS511-MW06	3/27/2007	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
USTAS511-MW07	9/27/2005	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
USTAS511-MW07	4/17/2006	BQL	BQL	BQL	BQL	8.80	BQL	BQL	BQL	BQL
USTAS511-MW07	10/26/2006	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
USTAS511-MW07	3/26/2007	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL

Notes:
1. 2L GWQS = North Carolina groundwater quality standard 15A NCAC 2L .0202
2. GCL = Gross Contamination Levels for ground water as defined in "Guidelines for Assessment and Corrective Action" North Carolina Underground Storage Tank Section, effective July 1, 2001
3. All units are in ug/L (Micrograms per Liter)
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5. A zero in the 2L GWQS row indicates the 2L Standard is equal to the laboratory detection limit
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7. Shaded concentrations indicate exceedance of the 2L GWQS
8. Only compounds which were detected are shown on table. All other compounds were BQL

TABLE 11.3

SITE Rapid Refueler

GROUNDWATER LABORATORY ANALYTICAL RESULTS - JULY 2005 TO DECEMBER 2007

EPA METHOD 625

Contaminant of Concern →		2,4-Dimethylphenol	2,6-Dinitrotoluene	Methylnaphthalene-2	3&4-Methylphenol	bis(2-Ethylhexyl)phthalate	Dibenzofuran	Diethyl phthalate	Isophorone	Naphthalene
Well ID	Date									
2L GWQS		140	0	14	3.5	2.5	28	5000	36.8	21
GCL		140000	0	12500	0	2500	28000	0	0	15500
USTAS511-MW08	9/27/2005	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
USTAS511-MW08	4/22/2006	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
USTAS511-MW08	10/26/2006	BQL	BQL	BQL	BQL	**3.80**	BQL	BQL	BQL	BQL
USTAS511-MW08	3/26/2007	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
USTAS522-MW03	9/29/2005	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
USTAS522-MW04	9/29/2005	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	1.00
USTAS522-MW04	10/31/2006	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
USTAS522-MW08	9/27/2005	2.70	BQL	**95.20**	BQL	BQL	BQL	BQL	BQL	**236.00**
USTAS522-MW10	9/29/2005	BQL	**3.40**	13.30	**4.30**	BQL	BQL	BQL	BQL	20.80
USTAS522-MW12	9/27/2005	BQL	BQL	**65.60**	BQL	BQL	BQL	BQL	BQL	**116.00**
USTAS522-MW12	10/26/2006	BQL	BQL	**83.90**	BQL	BQL	BQL	BQL	BQL	**126.00**

Notes:
1. 2L GWQS = North Carolina groundwater quality standard 15A NCAC 2L .0202
2. GCL = Gross Contamination Levels for ground water as defined in "Guidelines for Assessment and Corrective Action" North Carolina Underground Storage Tank Section, effective July 1, 2001
3. All units are in ug/L (Micrograms per Liter)
4. BQL = Below Quantitaion Limits
5. A zero in the 2L GWQS row indicates the 2L Standard is equal to the laboratory detection limit
6. A zero in the GCL row indicates a GCL has not been established
7. Shaded concentrations indicate exceedance of the 2L GWQS
8. Only compounds which were detected are shown on table. All other compounds were BQL

TABLE 11.3

SITE Rapid Refueler

GROUNDWATER LABORATORY ANALYTICAL RESULTS - JULY 2005 TO DECEMBER 2007

EPA METHOD 625

Contaminant of Concern →		2,4-Dimethylphenol	2,6-Dinitrotoluene	Methylnaphthalene-2	3&4-Methylphenol	bis(2-Ethylhexyl)phthalate	Dibenzofuran	Diethyl phthalate	Isophorone	Naphthalene
Well ID	**Date**									
2L GWQS		140	0	14	3.5	2.5	28	5000	36.8	21
GCL		140000	0	12500	0	2500	28000	0	0	15500
USTAS527-DW02	9/29/2005	BQL	BQL	**69.50**	BQL	BQL	BQL	BQL	BQL	**203.00**
USTAS527-DW02	3/28/2007	BQL	BQL	**63.60**	BQL	BQL	BQL	BQL	BQL	**225.00**
USTAS527-DW06	9/27/2005	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
USTAS527-DW06	10/30/2006	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
USTAS527-DW06	3/28/2007	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
USTAS527-MW02	4/17/2006	BQL	BQL	**45.90**	BQL	**32.20**	BQL	BQL	BQL	**105.00**
USTAS527-MW03	4/17/2006	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
USTAS527-MW03	3/28/2007	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
USTAS527-MW04	4/17/2006	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
USTAS527-MW04	3/28/2007	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
USTAS527-MW06	4/22/2006	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL

Notes:
1. 2L GWQS = North Carolina groundwater quality standard 15A NCAC 2L .0202
2. GCL = Gross Contamination Levels for ground water as defined in "Guidelines for Assessment and Corrective Action" North Carolina Underground Storage Tank Section, effective July 1, 2001
3. All units are in ug/L (Micrograms per Liter)
4. BQL = Below Quantitaion Limits
5. A zero in the 2L GWQS row indicates the 2L Standard is equal to the laboratory detection limit
6. A zero in the GCL row indicates a GCL has not been established
7. Shaded concentrations indicate exceedance of the 2L GWQS
8. Only compounds which were detected are shown on table. All other compounds were BQL

TABLE 11.3

SITE Rapid Refueler

GROUNDWATER LABORATORY ANALYTICAL RESULTS - JULY 2005 TO DECEMBER 2007

EPA METHOD 625

Contaminant of Concern →		2,4-Dimethylphenol	2,6-Dinitrotoluene	Methylnaphthalene-2	3&4-Methylphenol	bis(2-Ethylhexyl)phthalate	Dibenzofuran	Diethyl phthalate	Isophorone	Naphthalene
Well ID	**Date**									
2L GWQS		140	0	14	3.5	2.5	28	5000	36.8	21
GCL		140000	0	12500	0	2500	28000	0	0	15500
USTAS527-MW10	4/19/2006	BQL	BQL	**15.10**	BQL	**2.80**	BQL	BQL	BQL	**36.50**
USTAS527-MW10	3/27/2007	BQL	BQL	12.60	BQL	BQL	BQL	BQL	BQL	**32.80**
USTAS527-MW12	4/22/2006	BQL	BQL	**93.30**	BQL	BQL	BQL	BQL	BQL	**169.00**
USTAS527-MW12	3/26/2007	BQL	BQL	**84.30**	BQL	BQL	BQL	BQL	BQL	**151.00**
USTRF-MW02	9/27/2005	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
USTRF-MW02	4/22/2006	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
USTRF-MW02	3/21/2007	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
USTRF-MW03	9/27/2005	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
USTRF-MW03	4/22/2006	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
USTRF-MW03	3/21/2007	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL

Notes:
1. 2L GWQS = North Carolina groundwater quality standard 15A NCAC 2L .0202
2. GCL = Gross Contamination Levels for ground water as defined in "Guidelines for Assessment and Corrective Action" North Carolina Underground Storage Tank Section, effective July 1, 2001
3. All units are in ug/L (Micrograms per Liter)
4. BQL = Below Quantitaion Limits
5. A zero in the 2L GWQS row indicates the 2L Standard is equal to the laboratory detection limit
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SITE Rapid Refueler

GROUNDWATER LABORATORY ANALYTICAL RESULTS - JULY 2005 TO DECEMBER 2007

EPA METHOD 625

Contaminant of Concern →		2,4-Dimethylphenol	2,6-Dinitrotoluene	Methylnaphthalene-2	3&4-Methylphenol	bis(2-Ethylhexyl)phthalate	Dibenzofuran	Diethyl phthalate	Isophorone	Naphthalene
Well ID	**Date**									
2L GWQS		140	0	14	3.5	2.5	28	5000	36.8	21
GCL		140000	0	12500	0	2500	28000	0	0	15500
USTRF-MW03G	9/28/2005	BQL	BQL	BQL	BQL	**103.00**	BQL	2.10	BQL	BQL
USTRF-MW03G	4/18/2006	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
USTRF-MW03G	10/30/2006	BQL	BQL	BQL	BQL	**191.00**	BQL	BQL	BQL	BQL
USTRF-MW03G	3/22/2007	BQL	BQL	BQL	BQL	**4.20**	BQL	BQL	BQL	BQL
USTRF-MW04G	9/29/2005	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
USTRF-MW04G	4/18/2006	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
USTRF-MW04G	10/31/2006	BQL	BQL	BQL	BQL	**8.60**	BQL	BQL	BQL	BQL
USTRF-MW04G	3/22/2007	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
USTRF-MW05	9/27/2005	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	1.00
USTRF-MW05	4/22/2006	BQL	BQL	BQL	BQL	**7.70**	BQL	BQL	BQL	BQL
USTRF-MW05	10/30/2006	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	3.60
USTRF-MW05	3/20/2007	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	4.00

Notes:
1. 2L GWQS = North Carolina groundwater quality standard 15A NCAC 2L .0202
2. GCL = Gross Contamination Levels for ground water as defined in "Guidelines for Assessment and Corrective Action" North Carolina Underground Storage Tank Section, effective July 1, 2001
3. All units are in ug/L (Micrograms per Liter)
4. BQL = Below Quantitaion Limits
5. A zero in the 2L GWQS row indicates the 2L Standard is equal to the laboratory detection limit
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SITE Rapid Refueler

GROUNDWATER LABORATORY ANALYTICAL RESULTS - JULY 2005 TO DECEMBER 2007

EPA METHOD 625

Contaminant of Concern →		2,4-Dimethylphenol	2,6-Dinitrotoluene	Methylnaphthalene-2	3&4-Methylphenol	bis(2-Ethylhexyl)phthalate	Dibenzofuran	Diethyl phthalate	Isophorone	Naphthalene
Well ID	**Date**									
2L GWQS		140	0	14	3.5	2.5	28	5000	36.8	21
GCL		140000	0	12500	0	2500	28000	0	0	15500
USTRF-MW06	9/28/2005	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
USTRF-MW06	4/19/2006	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
USTRF-MW06	3/22/2007	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
USTRF-MW06G	9/29/2005	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	2.70
USTRF-MW06G	4/18/2006	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
USTRF-MW06G	10/31/2006	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
USTRF-MW06G	3/23/2007	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
USTRF-MW07	9/28/2005	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
USTRF-MW07	4/19/2006	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
USTRF-MW07	3/22/2007	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL

Notes:
1. 2L GWQS = North Carolina groundwater quality standard 15A NCAC 2L .0202
2. GCL = Gross Contamination Levels for ground water as defined in "Guidelines for Assessment and Corrective Action" North Carolina Underground Storage Tank Section, effective July 1, 2001
3. All units are in ug/L (Micrograms per Liter)
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SITE Rapid Refueler

GROUNDWATER LABORATORY ANALYTICAL RESULTS - JULY 2005 TO DECEMBER 2007

EPA METHOD 625

Contaminant of Concern →		2,4-Dimethylphenol	2,6-Dinitrotoluene	Methylnaphthalene-2	3&4-Methylphenol	bis(2-Ethylhexyl)phthalate	Dibenzofuran	Diethyl phthalate	Isophorone	Naphthalene
Well ID	**Date**									
2L GWQS		140	0	14	3.5	2.5	28	5000	36.8	21
GCL		140000	0	12500	0	2500	28000	0	0	15500
USTRF-MW09	9/28/2005	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	1.40
USTRF-MW09	4/19/2006	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
USTRF-MW09	3/23/2007	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
USTRF-MW10	9/28/2005	8.20	BQL	**108.00**	BQL	BQL	2.00	BQL	BQL	BQL
USTRF-MW10	4/22/2006	BQL	BQL	**88.30**	BQL	**4.00**	1.90	BQL	BQL	**190.00**
USTRF-MW10	10/30/2006	BQL	BQL	**86.80**	BQL	BQL	1.80	BQL	BQL	**220.00**
USTRF-MW10	3/20/2007	BQL	BQL	**43.30**	BQL	BQL	1.30	BQL	BQL	**137.00**
USTRF-MW11	9/27/2005	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
USTRF-MW11	4/18/2006	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
USTRF-MW11	10/30/2006	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
USTRF-MW11	3/20/2007	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL

Notes:
1. 2L GWQS = North Carolina groundwater quality standard 15A NCAC 2L .0202
2. GCL = Gross Contamination Levels for ground water as defined in "Guidelines for Assessment and Corrective Action" North Carolina Underground Storage Tank Section, effective July 1, 2001
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TABLE 11.3

SITE Rapid Refueler

GROUNDWATER LABORATORY ANALYTICAL RESULTS - JULY 2005 TO DECEMBER 2007

EPA METHOD 625

Contaminant of Concern →		2,4-Dimethylphenol	2,6-Dinitrotoluene	Methylnaphthalene-2	3&4-Methylphenol	bis(2-Ethylhexyl)phthalate	Dibenzofuran	Diethyl phthalate	Isophorone	Naphthalene
Well ID	**Date**									
2L GWQS		140	0	14	3.5	2.5	28	5000	36.8	21
GCL		140000	0	12500	0	2500	28000	0	0	15500
USTRF-MW14	9/27/2005	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
USTRF-MW14	4/17/2006	BQL	BQL	BQL	BQL	13.70	BQL	BQL	BQL	BQL
USTRF-MW14	10/30/2006	BQL	BQL	BQL	BQL	53.20	BQL	BQL	2.80	BQL
USTRF-MW14	3/20/2007	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
USTRF-MW15	9/27/2005	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
USTRF-MW15	4/17/2006	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
USTRF-MW15	10/30/2006	BQL	BQL	BQL	BQL	BQL	BQL	30.50	BQL	BQL
USTRF-MW15	3/20/2007	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
USTRF-MW17	9/27/2005	11.40	BQL	23.00	BQL	19.90	BQL	BQL	BQL	52.80
USTRF-MW17	4/22/2006	11.00	BQL	25.70	BQL	489.00	BQL	BQL	BQL	41.20
USTRF-MW17	3/19/2007	BQL	BQL	27.40	BQL	258.00	BQL	BQL	BQL	73.10

Notes:
1. 2L GWQS = North Carolina groundwater quality standard 15A NCAC 2L .0202
2. GCL = Gross Contamination Levels for ground water as defined in "Guidelines for Assessment and Corrective Action" North Carolina Underground Storage Tank Section, effective July 1, 2001
3. All units are in ug/L (Micrograms per Liter)
4. BQL = Below Quantitaion Limits
5. A zero in the 2L GWQS row indicates the 2L Standard is equal to the laboratory detection limit
6. A zero in the GCL row indicates a GCL has not been established
7. Shaded concentrations indicate exceedance of the 2L GWQS
8. Only compounds which were detected are shown on table. All other compounds were BQL

TABLE 11.3

SITE Rapid Refueler

GROUNDWATER LABORATORY ANALYTICAL RESULTS - JULY 2005 TO DECEMBER 2007

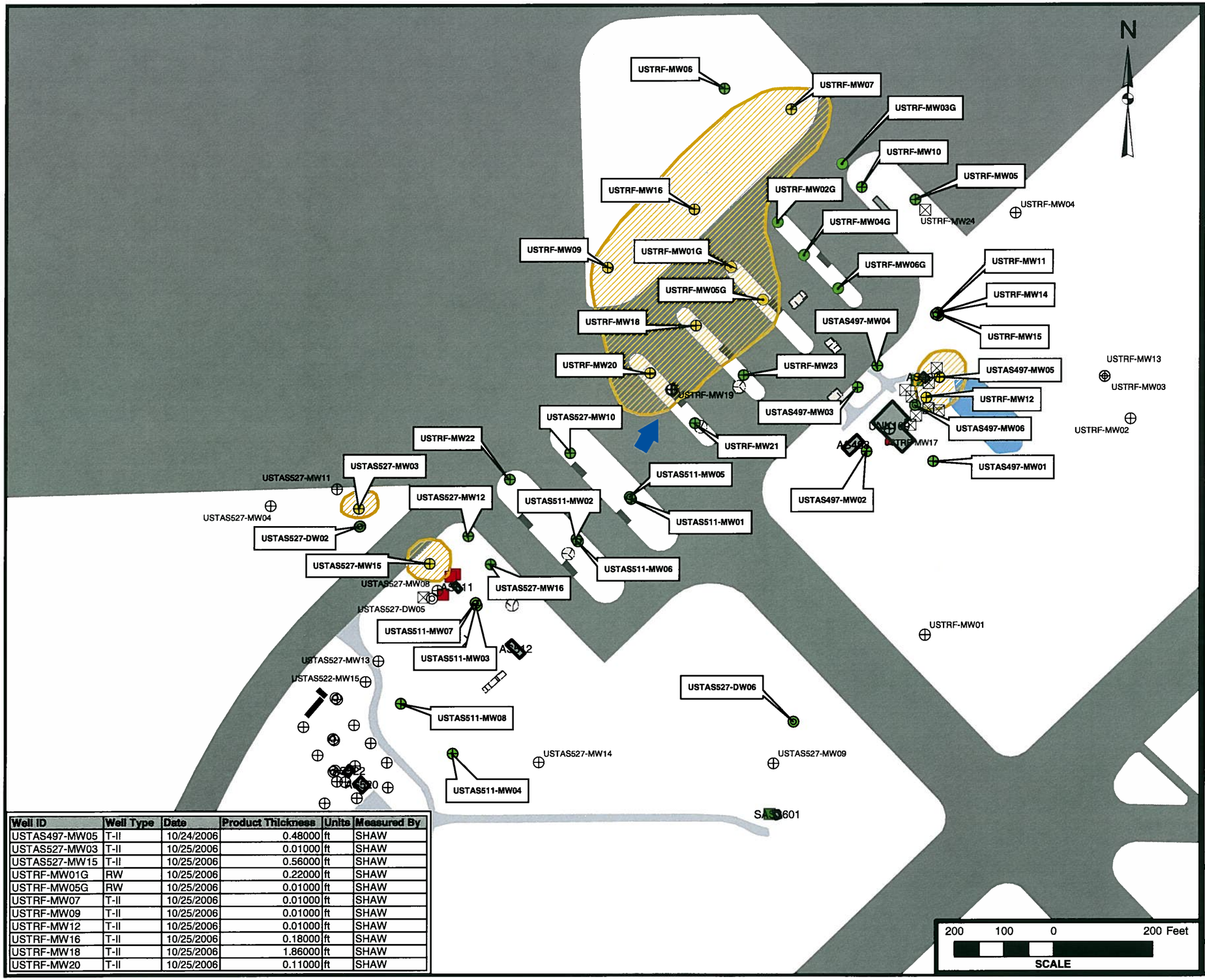
EPA METHOD 625

Contaminant of Concern →		2,4-Dimethylphenol	2,6-Dinitrotoluene	Methylnaphthalene-2	3&4-Methylphenol	bis(2-Ethylhexyl)phthalate	Dibenzofuran	Diethyl phthalate	Isophorone	Naphthalene
Well ID	Date									
2L GWQS		140	0	14	3.5	2.5	28	5000	36.8	21
GCL		140000	0	12500	0	2500	28000	0	0	15500
USTRF-MW21	9/28/2005	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
USTRF-MW21	4/19/2006	BQL	BQL	BQL	BQL	**3.40**	BQL	BQL	BQL	BQL
USTRF-MW21	10/31/2006	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
USTRF-MW21	3/22/2007	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
USTRF-MW22	9/29/2005	2.40	BQL	**33.50**	3.30	BQL	1.10	BQL	BQL	**47.90**
USTRF-MW22	4/22/2006	BQL	BQL	**24.60**	BQL	**3.20**	BQL	BQL	BQL	**31.00**
USTRF-MW22	10/27/2006	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
USTRF-MW22	3/27/2007	BQL	BQL	11.50	2.90	BQL	BQL	BQL	BQL	10.70
USTRF-MW23	9/28/2005	BQL	BQL	**41.80**	BQL	BQL	1.40	BQL	BQL	**66.60**
USTRF-MW23	4/19/2006	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
USTRF-MW23	10/31/2006	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
USTRF-MW23	3/22/2007	BQL	BQL	**31.70**	BQL	BQL	1.00	BQL	BQL	**45.00**

Notes:
1. 2L GWQS = North Carolina groundwater quality standard 15A NCAC 2L .0202
2. GCL = Gross Contamination Levels for ground water as defined in "Guidelines for Assessment and Corrective Action" North Carolina Underground Storage Tank Section, effective July 1, 2001
3. All units are in ug/L (Micrograms per Liter)
4. BQL = Below Quantitaion Limits
5. A zero in the 2L GWQS row indicates the 2L Standard is equal to the laboratory detection limit
6. A zero in the GCL row indicates a GCL has not been established
7. Shaded concentrations indicate exceedance of the 2L GWQS
8. Only compounds which were detected are shown on table. All other compounds were BQL

MCB CAMP LEJEUNE
UST MANAGEMENT PROGRAM
CALENDAR YEAR 2007

NAVFAC
Naval Facilities Engineering Command



Well ID	Well Type	Date	Product Thickness	Units	Measured By
USTAS497-MW05	T-II	10/24/2006	0.48000	ft	SHAW
USTAS527-MW03	T-II	10/25/2006	0.01000	ft	SHAW
USTAS527-MW15	T-II	10/25/2006	0.56000	ft	SHAW
USTRF-MW01G	RW	10/25/2006	0.22000	ft	SHAW
USTRF-MW05G	RW	10/25/2006	0.01000	ft	SHAW
USTRF-MW07	T-II	10/25/2006	0.01000	ft	SHAW
USTRF-MW09	T-II	10/25/2006	0.01000	ft	SHAW
USTRF-MW12	T-II	10/25/2006	0.01000	ft	SHAW
USTRF-MW16	T-II	10/25/2006	0.18000	ft	SHAW
USTRF-MW18	T-II	10/25/2006	1.86000	ft	SHAW
USTRF-MW20	T-II	10/25/2006	0.11000	ft	SHAW

LEGEND

Monitoring Wells
- Type I
- Type II
- Type III
- Pumping Well
- Unknown Well Type
- Water Supply Wells
- Above Ground Storage Tank
- Underground Storage Tank
- Railroad Tracks

Walls and Fences
- FENCE
- GATE
- WALL

Free Product
- Free Product Detected
- No Measurable Thickness
- Free Product Plume
- Buildings and Structures
- Demolished Structures
- Oil/Water Separators
- Slabs
- Roads
- Driveways
- Parking Lots
- Surface Water Bodies
- Creeks and Streams
- Historical Groundwater Flow Direction

Vegetation Cover
- Forestland
- Scrubland
- Wetland

Airfield Pavement
- HELIPAD
- RAMP
- RUNWAY
- SHLDR_OVERRUN
- TAXIWAY

NOTES

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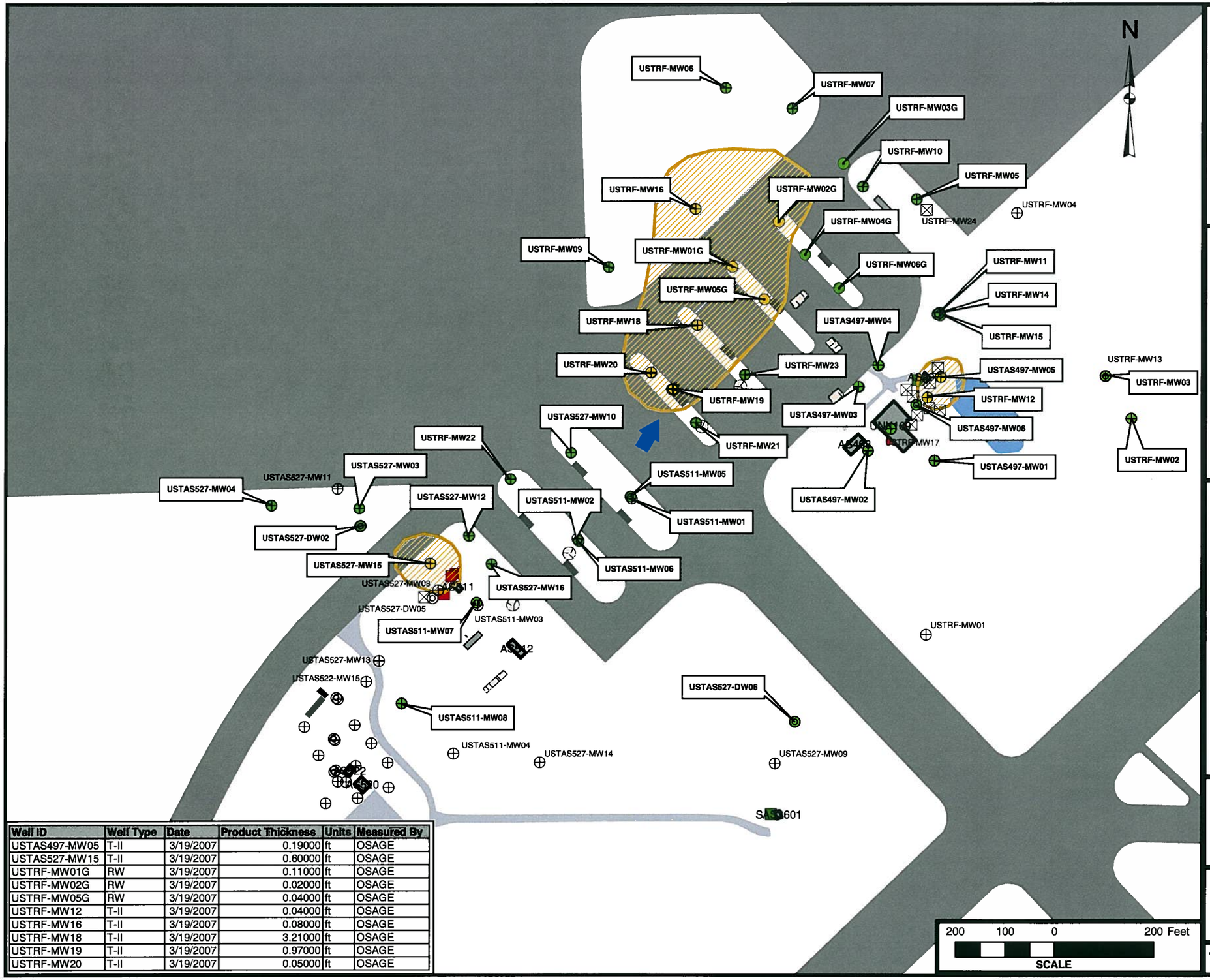
SITE Rapid Refueler
FREE PRODUCT PLUME MAP
FOURTH QUARTER 2006

FIGURE **11.1A**

Job No.:	Date:	Scale:	Drawn By:	Checked By:
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UST MANAGEMENT PROGRAM
CALENDAR YEAR 2007

NAVFAC
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LEGEND

Monitoring Wells
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- Free Product Plume
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- Parking Lots
- Surface Water Bodies
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- Scrubland
- Wetland

Airfield Pavement
- HELIPAD
- RAMP
- RUNWAY
- SHLDR_OVERRUN
- TAXIWAY

NOTES

Well ID	Well Type	Date	Product Thickness	Units	Measured By
USTAS497-MW05	T-II	3/19/2007	0.19000	ft	OSAGE
USTAS527-MW15	T-II	3/19/2007	0.60000	ft	OSAGE
USTRF-MW01G	RW	3/19/2007	0.11000	ft	OSAGE
USTRF-MW02G	RW	3/19/2007	0.02000	ft	OSAGE
USTRF-MW05G	RW	3/19/2007	0.04000	ft	OSAGE
USTRF-MW12	T-II	3/19/2007	0.04000	ft	OSAGE
USTRF-MW16	T-II	3/19/2007	0.08000	ft	OSAGE
USTRF-MW18	T-II	3/19/2007	3.21000	ft	OSAGE
USTRF-MW19	T-II	3/19/2007	0.97000	ft	OSAGE
USTRF-MW20	T-II	3/19/2007	0.05000	ft	OSAGE

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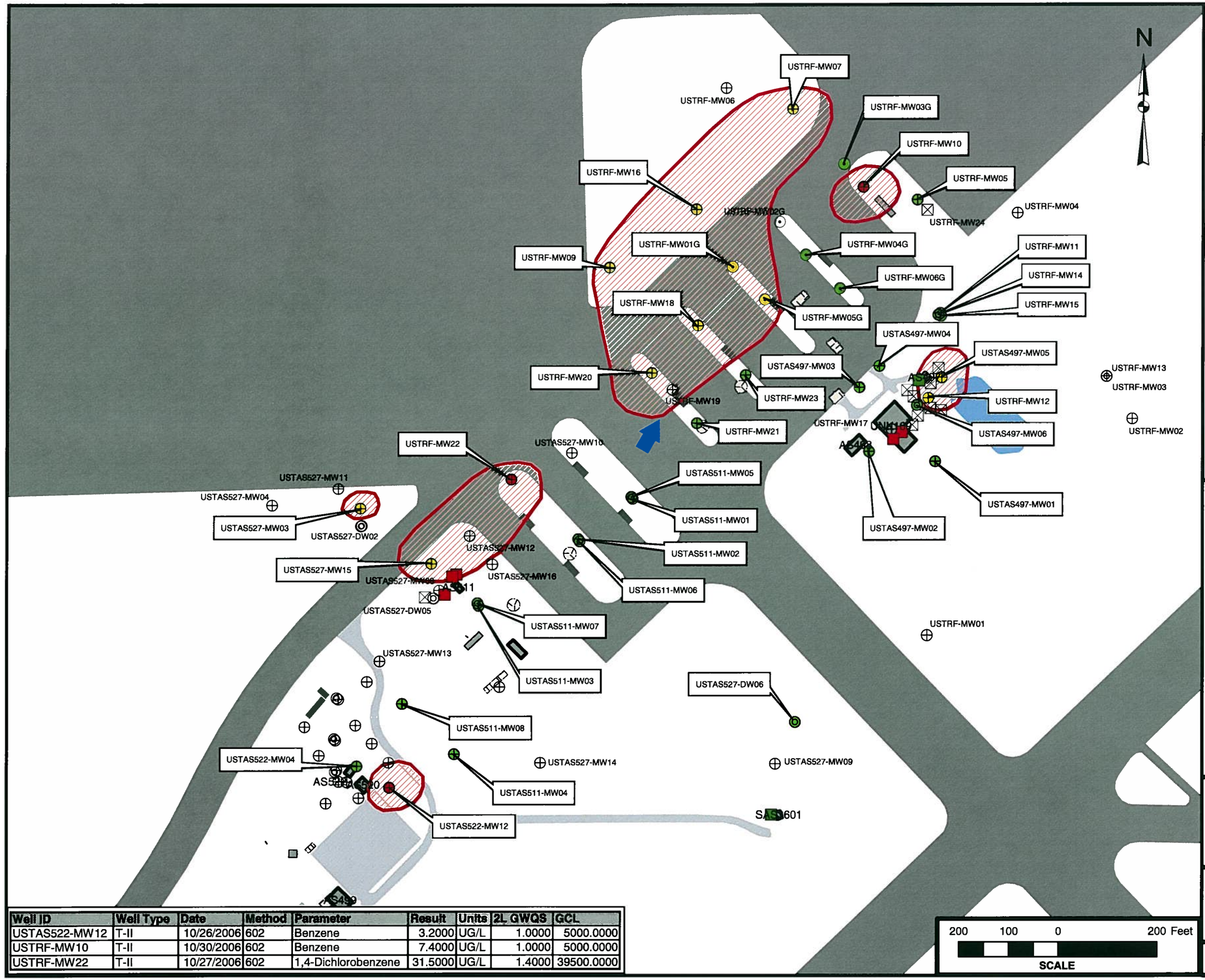
SITE Rapid Refueler
FREE PRODUCT PLUME MAP
FIRST QUARTER 2007

FIGURE
11.1B

Job No.:	Date:	Scale:	Drawn By:	Checked By:
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MCB CAMP LEJEUNE
UST MANAGEMENT PROGRAM
CALENDAR YEAR 2007

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Naval Facilities Engineering Command



Well ID	Well Type	Date	Method	Parameter	Result	Units	2L GWQS	GCL
USTAS522-MW12	T-II	10/26/2006	602	Benzene	3.2000	UG/L	1.0000	5000.0000
USTRF-MW10	T-II	10/30/2006	602	Benzene	7.4000	UG/L	1.0000	5000.0000
USTRF-MW22	T-II	10/27/2006	602	1,4-Dichlorobenzene	31.5000	UG/L	1.4000	39500.0000

200 100 0 200 Feet
SCALE

LEGEND

Monitoring Wells
- Type I
- Type II
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- Unknown Well Type
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- Underground Storage Tank
- Railroad Tracks

Walls and Fences
- FENCE
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Analytical Results
- Free Product Detected
- 2L Non-Compliant
- 2L Compliant
- EPA 602 Plume

- Buildings and Structures
- Demolished Structures
- Oil/Water Separators
- Slabs
- Roads
- Driveways
- Parking Lots
- Surface Water Bodies
- Creeks and Streams
- Historical Groundwater Flow Direction

Vegetation Cover
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- Wetland

Airfield Pavement
- HELIPAD
- RAMP
- RUNWAY
- SHLDR_OVERRUN
- TAXIWAY

NOTES

1. 2L Standard refers to North Carolina Groundwater Quality Standard 15A NCAC 2L.0202.
2. GCL refers to Gross Contaminant Level as defined in "Guidelines for the Assessment and Corrective Action" North Carolina Underground Storage Tank Section, effective July 1, 2001.
3. A 2L Standard of "0.00" implies a standard has not yet been established. According to NCAC T15:02L, any compound found above laboratory detection limits is considered noncompliant unless otherwise specified by the NCDENR.

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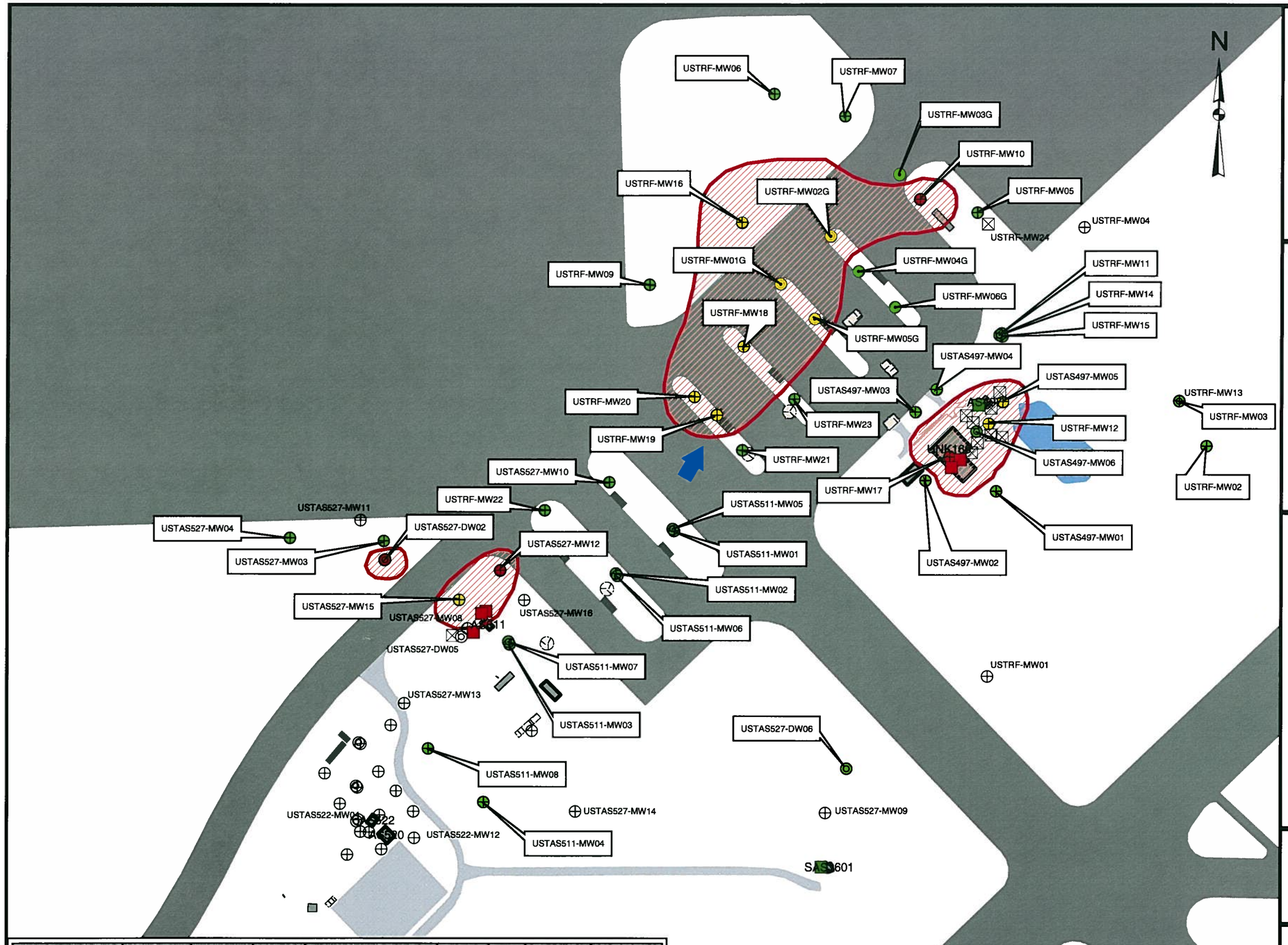
SITE Rapid Refueler
EPA METHOD 602 COLORIMETRY AND PLUME IN EXCESS OF 2L FOURTH QUARTER 2006

FIGURE
11.2A

Job No.:	Date:	Scale:	Drawn By:	Checked By:
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MCB CAMP LEJEUNE
UST MANAGEMENT PROGRAM
CALENDAR YEAR 2007

NAVFAC
Naval Facilities Engineering Command



LEGEND

Monitoring Wells
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NOTES

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3. A 2L Standard of "0.00" implies a standard has not yet been established. According to NCAC T15:02L, any compound found above laboratory detection limits is considered noncompliant unless otherwise specified by the NCDENR.

Well ID	Well Type	Date	Method	Parameter	Result	Units	2L GWQS	GCL
USTAS527-DW02	T-III	3/28/2007	602	Benzene	8.2000	UG/L	1.0000	5000.0000
USTAS527-MW12	T-II	3/26/2007	602	Benzene	3.8000	UG/L	1.0000	5000.0000
USTRF-MW10	T-II	3/20/2007	602	"1,2-Dichlorobenzene"	28.7000	UG/L	24.0000	72500.0000
USTRF-MW10	T-II	3/20/2007	602	Benzene	6.5000	UG/L	1.0000	5000.0000
USTRF-MW17	T-II	3/19/2007	602	Benzene	4.6000	UG/L	1.0000	5000.0000

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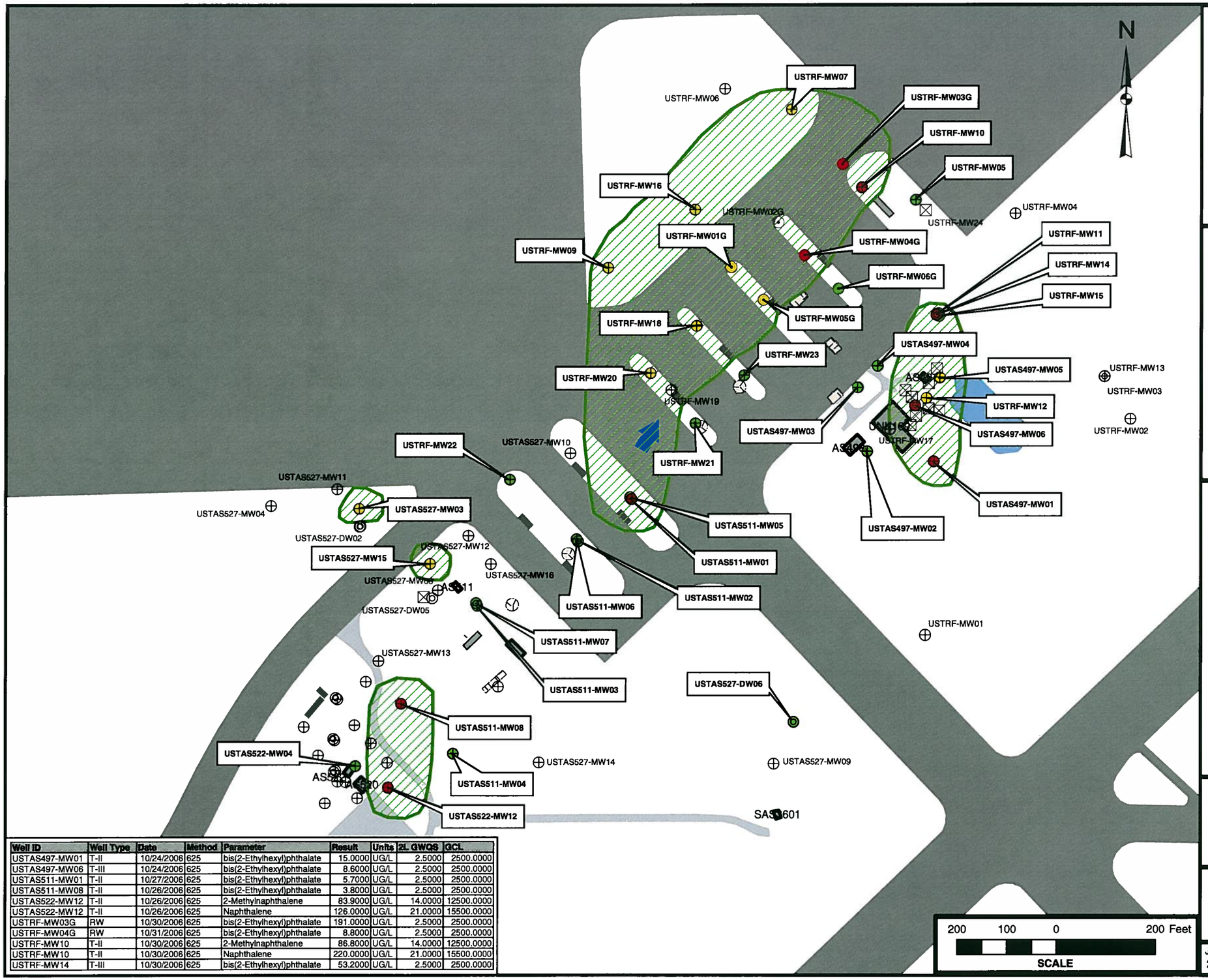
SITE Rapid Refueler
EPA METHOD 602 COLORIMETRY AND PLUME IN EXCESS OF 2L
FIRST QUARTER 2007

FIGURE **11.2B**

Job No.:	Date:	Scale:	Drawn By:	Checked By:
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MCB CAMP LEJEUNE
UST MANAGEMENT PROGRAM
CALENDAR YEAR 2007

NAVFAC
Naval Facilities Engineering Command



LEGEND

Monitoring Wells
- Type I
- Type II
- Type III
- Pumping Well
- Unknown Well Type
- Water Supply Wells
- Above Ground Storage Tank
- Underground Storage Tank
- Railroad Tracks

Walls and Fences
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- GATE
- WALL

Analytical Results
- Free Product Detected
- 2L Non-Compliant
- 2L Compliant
- EPA 625 Plume
- Buildings and Structures
- Demolished Structures
- Oil/Water Separators
- Slabs
- Roads
- Driveways
- Parking Lots
- Surface Water Bodies
- Creeks and Streams
- Historical Groundwater Flow Direction

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Airfield Pavement
- HELIPAD
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NOTES

1. 2L Standard refers to North Carolina Groundwater Quality Standard 15A NCAC 2L.0202.
2. GCL refers to Gross Contaminant Level as defined in "Guidelines for the Assessment and Corrective Action" North Carolina Underground Storage Tank Section, effective July 1, 2001.
3. A 2L Standard of "0.00" implies a standard has not yet been established. According to NCAC T15:02L, any compound found above laboratory detection limits is considered noncompliant unless otherwise specified by the NCDENR.

Well ID	Well Type	Date	Method	Parameter	Result	Units	2L GWQS	GCL
USTAS497-MW01	T-II	10/24/2006	625	bis(2-Ethylhexyl)phthalate	15.0000	UG/L	2.5000	2500.0000
USTAS497-MW06	T-III	10/24/2006	625	bis(2-Ethylhexyl)phthalate	8.6000	UG/L	2.5000	2500.0000
USTAS511-MW01	T-II	10/27/2006	625	bis(2-Ethylhexyl)phthalate	5.7000	UG/L	2.5000	2500.0000
USTAS511-MW08	T-II	10/26/2006	625	bis(2-Ethylhexyl)phthalate	3.8000	UG/L	2.5000	2500.0000
USTAS522-MW12	T-II	10/26/2006	625	2-Methylnaphthalene	83.9000	UG/L	14.0000	12500.0000
USTAS522-MW12	T-II	10/26/2006	625	Naphthalene	126.0000	UG/L	21.0000	15500.0000
USTRF-MW03G	RW	10/30/2006	625	bis(2-Ethylhexyl)phthalate	191.0000	UG/L	2.5000	2500.0000
USTRF-MW04G	RW	10/31/2006	625	bis(2-Ethylhexyl)phthalate	8.8000	UG/L	2.5000	2500.0000
USTRF-MW10	T-II	10/30/2006	625	2-Methylnaphthalene	86.8000	UG/L	14.0000	12500.0000
USTRF-MW10	T-II	10/30/2006	625	Naphthalene	220.0000	UG/L	21.0000	15500.0000
USTRF-MW14	T-III	10/30/2006	625	bis(2-Ethylhexyl)phthalate	53.2000	UG/L	2.5000	2500.0000

200 100 0 200 Feet
SCALE

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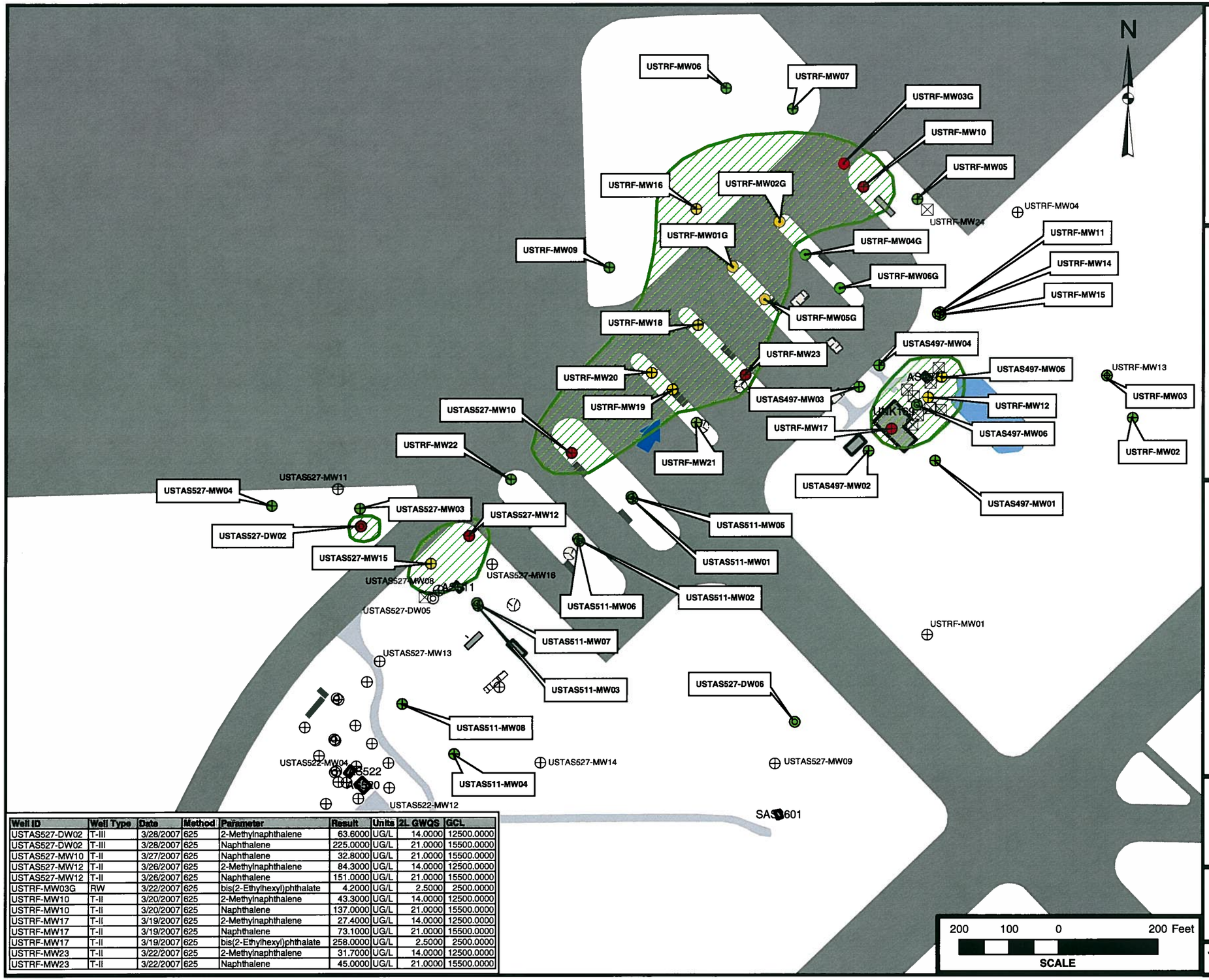
SITE Rapid Refueler
EPA METHOD 625 COLORIMETRY AND PLUME IN EXCESS OF 2L FOURTH QUARTER 2006

FIGURE **11.3A**

Job No.:	Date:	Scale:	Drawn By:	Checked By:
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MCB CAMP LEJEUNE
UST MANAGEMENT PROGRAM
CALENDAR YEAR 2007

NAVFAC
Naval Facilities Engineering Command



Well ID	Well Type	Date	Method	Parameter	Result	Units	2L GWQS	GCL
USTAS527-DW02	T-III	3/28/2007	625	2-Methylnaphthalene	63.6000	UG/L	14.0000	12500.0000
USTAS527-DW02	T-III	3/28/2007	625	Naphthalene	225.0000	UG/L	21.0000	15500.0000
USTAS527-MW10	T-II	3/27/2007	625	Naphthalene	32.8000	UG/L	21.0000	15500.0000
USTAS527-MW12	T-II	3/26/2007	625	2-Methylnaphthalene	84.3000	UG/L	14.0000	12500.0000
USTAS527-MW12	T-II	3/26/2007	625	Naphthalene	151.0000	UG/L	21.0000	15500.0000
USTRF-MW03G	RW	3/22/2007	625	bis(2-Ethylhexyl)phthalate	4.2000	UG/L	2.5000	2500.0000
USTRF-MW10	T-II	3/20/2007	625	2-Methylnaphthalene	43.3000	UG/L	14.0000	12500.0000
USTRF-MW10	T-II	3/20/2007	625	Naphthalene	137.0000	UG/L	21.0000	15500.0000
USTRF-MW17	T-II	3/19/2007	625	2-Methylnaphthalene	27.4000	UG/L	14.0000	12500.0000
USTRF-MW17	T-II	3/19/2007	625	Naphthalene	73.1000	UG/L	21.0000	15500.0000
USTRF-MW17	T-II	3/19/2007	625	bis(2-Ethylhexyl)phthalate	258.0000	UG/L	2.5000	2500.0000
USTRF-MW23	T-II	3/22/2007	625	2-Methylnaphthalene	31.7000	UG/L	14.0000	12500.0000
USTRF-MW23	T-II	3/22/2007	625	Naphthalene	45.0000	UG/L	21.0000	15500.0000

200 100 0 200 Feet
SCALE

LEGEND

Monitoring Wells
- Type I
- Type II
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- Pumping Well
- Unknown Well Type
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- Underground Storage Tank
- Railroad Tracks

Walls and Fences
- FENCE
- GATE
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Analytical Results
- Free Product Detected
- 2L Non-Compliant
- 2L Compliant
- EPA 625 Plume
- Buildings and Structures
- Demolished Structures
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Vegetation Cover
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Airfield Pavement
- HELIPAD
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NOTES

1. 2L Standard refers to North Carolina Groundwater Quality Standard 15A NCAC 2L.0202.
2. GCL refers to Gross Contaminant Level as defined in "Guidelines for the Assessment and Corrective Action" North Carolina Underground Storage Tank Section, effective July 1, 2001.
3. A 2L Standard of "0.00" implies a standard has not yet been established. According to NCAC T15:02L, any compound found above laboratory detection limits is considered noncompliant unless otherwise specified by the NCDENR.

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SITE Rapid Refueler
EPA METHOD 625 COLORIMETRY AND PLUME IN EXCESS OF 2L FIRST QUARTER 2007

FIGURE
11.3B

Job No.:	Date:	Scale:	Drawn By:	Checked By:
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SECTION 12.0

OF THE

ANNUAL MANAGEMENT REPORT
MCB CAMP LEJEUNE UST MANAGEMENT PROGRAM

MONITORING EVENT:

YEAR 2007
(JANUARY – DECEMBER 2007)

SITE-SPECIFIC MONITORING REPORT
FOR

SITE 45/S941

NCDENR INCIDENT NO. 22890

12.0 EXECUTIVE SUMMARY
SITE 45/S941

12.1 Site Information

12.1.1 Site Location: MCB Camp Lejeune
12.1.2 Incident Number(s): 22890
12.1.3 UTM Coordinates (WGS84) (Meters): 284764.88 Easting, 3845768.15 Northing
12.1.4 Risk Classification: Intermediate
12.1.5 Land Use Classification: Industrial/Commercial
12.1.6 Source Type(s): Gasoline, Diesel Fuel

12.2 Monitoring Event Information

12.2.1 Sampling Performed By: Sovereign
12.2.2 Date(s) of This Monitoring Event: August 2006, November 2006, January 2007, June 2007 and December 2007
12.2.3 Date(s) of Previous Monitoring Event: October and November 2005 and April 2006
12.2.4 Reason(s) for This Monitoring Event: Track migration and attenuation of dissolved-phase plume.
12.2.5 Site Monitoring Status at Time of This Event: Over the past two years select on-site monitoring wells have been sampled on a quarterly basis.

12.3 Groundwater Hydraulics

12.3.1 Hydraulic Conductivity: 0.769
12.3.2 Effective Porosity: 0.20
12.3.3 Hydraulic Gradient: 0.034 feet/feet
12.3.4 Average Linear Groundwater Flow Velocity: 0.131 feet/day
12.3.5 Groundwater Flow Direction: West-northwest
12.3.6 Range of Measured Water Table Elevations: See Table 12.1
12.3.7 Significant Changes from Previously Reported Data: None.

12.4 Free Product Plume

12.4.1 Free Product Present?: No.
12.4.2 Free Product Thickness Measured: Not Applicable
12.4.3 Plume Size and Location: Not Applicable
12.4.4 Free Product Removed from Site This Period: Not Applicable
12.4.5 Significant Changes from Previously Reported Data: None. See Figures 12.1A through 12.1E.

12.5 Dissolved-Phase Plume

12.5.1 Plume Concentrations: See Tables 12.2A through 12.4.
12.5.2 Plume Size and Location: See Figures 12.2A through 12.4E.
12.5.3 Significant Changes from Previously Reported Data: The current groundwater sample analytical results as compared to the analytical results from the April 2006 sampling event are discussed as follows:

EPA Method 602/EPA Method 8260

Benzene was detected at a concentration of 5.87 ug/L which is above the 2L GWQS of 1 ug/L for this compound in the UST45/S941-MW09 groundwater sample from April 2006. Benzene was again detected in this monitoring well above the 2L GWQS during the August 2006, November 2006, January 2007 and June 2007 monitoring events. However, data collected during the December 2007 monitoring event revealed no EPA Method 602 compounds above the 2L GWQSs in UST45/S941-MW09. Please note, beginning in 2007 EPA Method 602 analysis was switched to EPA Method 8260 analysis. See Figures 12.2A through 12.2E.

EPA Method 625/EPA Method 8270

No EPA Method 625 compounds were detected above the 2L GWQS during the April 2006 monitoring event. Bis(2-ethylhexyl)phthalate was detected above the 2L GWQS in one monitoring well during the January 2007, June 2007 and December 2007 monitoring events. 2-Methylphenol was detected at a concentration of 13.2 ug/L in monitoring well UST45/S941-MW09 during the December 2007 monitoring event. There is no established 2L GWQSs for this compound. Please note, beginning in 2007 EPA Method 625 analysis was switched to EPA Method 8270 analysis. See Figures 12.3A through 12.3E.

EPA Method 6020

No EPA Method 6020 compounds were detected above the 2L GWQS during the April 2006 monitoring event. No EPA Method 6020 compounds were detected above the 2L GWQSs during the August 2006, November 2006, January 2007 or June 2007 monitoring events. However, Lead was detected at a concentration of 163 ug/L in monitoring well UST45/S941-MW15 during the December 2007 monitoring event, which is above the 2L GWQS for Lead of 15 ug/L. See Figures 12.4A through 12.4E.

12.6 Potential Receptors

12.6.1 Contaminated Water Supply Well(s)?: None
12.6.2 Potable Water Supply Well Within 1,000 Feet of Source Area?: No
12.6.3 Any Water Supply Well Within 250 Feet of Source Area?: No
12.6.4 Surface Water Body Within 500 Feet?: No
12.6.5 Past Evidence of Vapors?: No
12.6.6 Significant Changes from Previously Reported Data?: None.

12.7 Remediation

12.7.1 Status: AS/SVE system deactivated in November 2006, ISOC Unit installed in June 2007 and continues to operate in UST45/S941-MW09.

12.7.2 Type: AS/SVE, ISOC Unit in UST45/S941-MW09 only

12.7.3 Progress: Shallow contamination concentrations have been reduced to below the 2L GWQSs since system startup. Contaminant concentrations have persisted above the 2L GWQSs in deep monitoring well UST45/S941-MW09, however the most recent analytical results (December 2007) revealed no contaminant concentrations above the 2L GWQSs.

12.7.4 Construction Contractor: J. A. Jones

12.7.5 Operating Contractor: Sovereign

12.8 Observations and Comments

Bis(2-ethylhexyl)phthalate was detected at concentrations above the 2L GWQS in one monitoring well during the January 2007, June 2007 and December 2007 monitoring events. It should be noted that this is not a petroleum-related compound. This compound is commonly used in plastics as a plasticizing agent. The occurrence of this compound is likely the result of sampling/laboratory artifact, resulting from the use of plastic sampling equipment and/or analytical instrument tubing.

2-Methylphenol was detected in monitoring well UST45/S941-MW15 during the December 2007 monitoring event. This compound is a component found in industrial solvents and is not typically associated with gasoline and diesel fuel releases. Therefore, it is surmised this compound is not related to the petroleum-related contamination associated with the former UST systems at the subject site.

CATLIN recommends after the next round of analytical results if EPA Method 8260 contaminant concentrations are again below the 2L GWQS in monitoring well UST45/S941-MW09 the ISOC Unit should be removed. Upon removal of the ISOC Unit quarterly groundwater sampling should be initiated to facilitate site closure.

However, if the next round of analytical results reveals contaminant concentrations above the 2L GWQSs in monitoring well UST45/S941-MW09, CATLIN recommends semi-annual groundwater sampling of select on-site monitoring wells. See the figure in Appendix A for the proposed monitoring schedule.

TABLE 12.1
SITE 45/S941
FIELD MEASUREMENTS - JULY 2005 TO DECEMBER 2007

Well No.	Type	TOC	Date	DTW	Product Thickness	Corrected GWT Elevation
UST45/S941-MW01/45	T-II	11.43	9/21/2005	11.10	0.00	0.33
UST45/S941-MW01/45	T-II	11.43	10/28/2005	9.42	0.00	2.01
UST45/S941-MW01/45	T-II	11.43	11/18/2005	10.24	0.00	1.19
UST45/S941-MW01/45	T-II	11.43	12/6/2005	10.59	0.00	0.84
UST45/S941-MW01/45	T-II	11.43	1/10/2006	10.38	0.00	1.05
UST45/S941-MW01/45	T-II	11.43	2/22/2006	10.55	0.00	0.88
UST45/S941-MW01/45	T-II	11.43	3/14/2006	10.57	0.00	0.86
UST45/S941-MW01/45	T-II	11.43	4/6/2006	11.27	0.00	0.16
UST45/S941-MW01/45	T-II	11.43	5/2/2006	11.24	0.00	0.19
UST45/S941-MW01/45	T-II	11.43	6/6/2006	11.30	0.00	0.13
UST45/S941-MW01/45	T-II	11.43	7/11/2006	10.10	0.00	1.33
UST45/S941-MW01/45	T-II	11.43	8/7/2006	10.35	0.00	1.08
UST45/S941-MW01/45	T-II	11.43	9/1/2006	10.38	0.00	1.05
UST45/S941-MW01/45	T-II	11.43	10/2/2006	10.47	0.00	0.96
UST45/S941-MW01/45	T-II	11.43	11/13/2006	10.72	0.00	0.71
UST45/S941-MW01/45	T-II	11.43	12/7/2006	9.83	0.00	1.60
UST45/S941-MW01/45	T-II	11.43	1/5/2007	9.60	0.00	1.83
UST45/S941-MW01/45	T-II	11.43	1/25/2007	9.20	0.00	2.23
UST45/S941-MW01/45	T-II	11.43	6/19/2007	11.91	0.00	-0.48
UST45/S941-MW01/45	T-II	11.43	12/19/2007	11.91	0.00	-0.48
UST45/S941-MW02R	Unknown	11.07	9/21/2005	4.61	0.00	6.46
UST45/S941-MW02R	Unknown	11.07	10/28/2005	3.58	0.00	7.49
UST45/S941-MW02R	Unknown	11.07	11/18/2005	5.51	0.00	5.56
UST45/S941-MW02R	Unknown	11.07	12/6/2005	5.07	0.00	6.00
UST45/S941-MW02R	Unknown	11.07	1/10/2006	4.83	0.00	6.24
UST45/S941-MW02R	Unknown	11.07	2/22/2006	5.46	0.00	5.61

Notes:
1. T-II = Type II monitoring well
   T-III = Type III monitoring well
   RW = Recovery well
2. TOC = Top of casing elevation in feet relative to Mean Sea Level.
3. DTW = Depth to water (in feet) from top of well casing.
4. Product thickness is measured in feet.
5. GWT = Groundwater Table
6. A zero ("0.00") in the product thickness column indicates no measureable thickness.
7. GWT Elevation corrected for measurable free product, if present.

Well No.	Type	TOC	Date	DTW	Product Thickness	Corrected GWT Elevation
UST45/S941-MW02R	Unknown	11.07	3/14/2006	5.58	0.00	5.49
UST45/S941-MW02R	Unknown	11.07	4/7/2006	6.31	0.00	4.76
UST45/S941-MW02R	Unknown	11.07	5/2/2006	6.15	0.00	4.92
UST45/S941-MW02R	Unknown	11.07	6/6/2006	6.72	0.00	4.35
UST45/S941-MW02R	Unknown	11.07	7/11/2006	4.91	0.00	6.16
UST45/S941-MW02R	Unknown	11.07	8/7/2006	5.47	0.00	5.60
UST45/S941-MW02R	Unknown	11.07	9/1/2006	4.83	0.00	6.24
UST45/S941-MW02R	Unknown	11.07	10/2/2006	5.90	0.00	5.17
UST45/S941-MW02R	Unknown	11.07	11/13/2006	4.93	0.00	6.14
UST45/S941-MW02R	Unknown	11.07	12/7/2006	4.41	0.00	6.66
UST45/S941-MW02R	Unknown	11.07	1/5/2007	3.24	0.00	7.83
UST45/S941-MW03R	Unknown	12.17	9/21/2005	6.86	0.00	5.31
UST45/S941-MW03R	Unknown	12.17	10/28/2005	4.61	0.00	7.56
UST45/S941-MW03R	Unknown	12.17	11/18/2005	6.60	0.00	5.57
UST45/S941-MW03R	Unknown	12.17	12/6/2005	5.14	0.00	7.03
UST45/S941-MW03R	Unknown	12.17	1/10/2006	5.92	0.00	6.25
UST45/S941-MW03R	Unknown	12.17	2/22/2006	6.54	0.00	5.63
UST45/S941-MW03R	Unknown	12.17	3/14/2006	6.69	0.00	5.48
UST45/S941-MW03R	Unknown	12.17	4/6/2006		0.00	
UST45/S941-MW03R	Unknown	12.17	5/2/2006	7.21	0.00	4.96
UST45/S941-MW03R	Unknown	12.17	6/6/2006	7.66	0.00	4.51
UST45/S941-MW03R	Unknown	12.17	7/11/2006	6.11	0.00	6.06
UST45/S941-MW03R	Unknown	12.17	8/7/2006	6.61	0.00	5.56
UST45/S941-MW03R	Unknown	12.17	9/1/2006	5.92	0.00	6.25
UST45/S941-MW03R	Unknown	12.17	10/2/2006	7.00	0.00	5.17
UST45/S941-MW03R	Unknown	12.17	11/13/2006	6.03	0.00	6.14
UST45/S941-MW03R	Unknown	12.17	12/7/2006	5.55	0.00	6.62
UST45/S941-MW03R	Unknown	12.17	1/5/2007	4.36	0.00	7.81
UST45/S941-MW04	T-II	14.83	9/21/2005	9.23	0.00	5.60
UST45/S941-MW04	T-II	14.83	10/28/2005	5.07	0.00	9.76
UST45/S941-MW04	T-II	14.83	11/18/2005	6.67	0.00	8.16

Notes:
1. T-II = Type II monitoring well
   T-III = Type III monitoring well
   RW = Recovery well
2. TOC = Top of casing elevation in feet relative to Mean Sea Level.
3. DTW = Depth to water (in feet) from top of well casing.
4. Product thickness is measured in feet.
5. GWT = Groundwater Table
6. A zero ("0.00") in the product thickness column indicates no measureable thickness.
7. GWT Elevation corrected for measurable free product, if present.

Well No.	Type	TOC	Date	DTW	Product Thickness	Corrected GWT Elevation
UST45/S941-MW04	T-II	14.83	12/6/2005	6.33	0.00	8.50
UST45/S941-MW04	T-II	14.83	1/10/2006	6.09	0.00	8.74
UST45/S941-MW04	T-II	14.83	2/22/2006	6.67	0.00	8.16
UST45/S941-MW04	T-II	14.83	3/14/2006	6.91	0.00	7.92
UST45/S941-MW04	T-II	14.83	4/6/2006	7.67	0.00	7.16
UST45/S941-MW04	T-II	14.83	5/2/2006	7.89	0.00	6.94
UST45/S941-MW04	T-II	14.83	6/6/2006	9.32	0.00	5.51
UST45/S941-MW04	T-II	14.83	7/11/2006	6.40	0.00	8.43
UST45/S941-MW04	T-II	14.83	8/7/2006	7.57	0.00	7.26
UST45/S941-MW04	T-II	14.83	9/1/2006	6.10	0.00	8.73
UST45/S941-MW04	T-II	14.83	10/2/2006	7.70	0.00	7.13
UST45/S941-MW04	T-II	14.83	11/13/2006	7.20	0.00	7.63
UST45/S941-MW04	T-II	14.83	12/7/2006	5.42	0.00	9.41
UST45/S941-MW04	T-II	14.83	1/5/2007	4.60	0.00	10.23
UST45/S941-MW04/45	T-II	7.11	9/21/2005	14.00	0.00	-6.89
UST45/S941-MW04/45	T-II	7.11	10/28/2005	12.25	0.00	-5.14
UST45/S941-MW04/45	T-II	7.11	11/18/2005	13.48	0.00	-6.37
UST45/S941-MW04/45	T-II	7.11	12/6/2005	13.80	0.00	-6.69
UST45/S941-MW04/45	T-II	7.11	1/10/2006	13.83	0.00	-6.72
UST45/S941-MW04/45	T-II	7.11	2/22/2006	14.27	0.00	-7.16
UST45/S941-MW04/45	T-II	7.11	3/14/2006	14.36	0.00	-7.25
UST45/S941-MW04/45	T-II	7.11	4/6/2006	14.64	0.00	-7.53
UST45/S941-MW04/45	T-II	7.11	5/2/2006	14.72	0.00	-7.61
UST45/S941-MW04/45	T-II	7.11	6/6/2006	14.91	0.00	-7.80
UST45/S941-MW04/45	T-II	7.11	7/11/2006	12.95	0.00	-5.84
UST45/S941-MW04/45	T-II	7.11	8/7/2006	13.77	0.00	-6.66
UST45/S941-MW04/45	T-II	7.11	9/1/2006	13.83	0.00	-6.72
UST45/S941-MW04/45	T-II	7.11	10/2/2006	13.75	0.00	-6.64
UST45/S941-MW04/45	T-II	7.11	11/13/2006	13.82	0.00	-6.71
UST45/S941-MW04/45	T-II	7.11	12/7/2006	12.95	0.00	-5.84
UST45/S941-MW04/45	T-II	7.11	1/5/2007	12.87	0.00	-5.76

Notes:
1. T-II = Type II monitoring well
   T-III = Type III monitoring well
   RW = Recovery well
2. TOC = Top of casing elevation in feet relative to Mean Sea Level.
3. DTW = Depth to water (in feet) from top of well casing.
4. Product thickness is measured in feet.
5. GWT = Groundwater Table
6. A zero ("0.00") in the product thickness column indicates no measureable thickness.
7. GWT Elevation corrected for measurable free product, if present.

Well No.	Type	TOC	Date	DTW	Product Thickness	Corrected GWT Elevation
UST45/S941-MW04/45	T-II	7.11	1/25/2007	13.12	0.00	-6.01
UST45/S941-MW04/45	T-II	7.11	6/19/2007	14.98	0.00	-7.87
UST45/S941-MW04/45	T-II	7.11	12/19/2007	14.98	0.00	-7.87
UST45/S941-MW05	T-II	9.73	9/21/2005	7.75	0.00	1.98
UST45/S941-MW05	T-II	9.73	10/28/2005	5.77	0.00	3.96
UST45/S941-MW05	T-II	9.73	11/18/2005	7.48	0.00	2.25
UST45/S941-MW05	T-II	9.73	12/6/2005	6.97	0.00	2.76
UST45/S941-MW05	T-II	9.73	1/10/2006	6.82	0.00	2.91
UST45/S941-MW05	T-II	9.73	2/22/2006	7.55	0.00	2.18
UST45/S941-MW05	T-II	9.73	3/14/2006	7.97	0.00	1.76
UST45/S941-MW05	T-II	9.73	4/6/2006	8.51	0.00	1.22
UST45/S941-MW05	T-II	9.73	5/2/2006	8.43	0.00	1.30
UST45/S941-MW05	T-II	9.73	6/6/2006	8.92	0.00	0.81
UST45/S941-MW05	T-II	9.73	7/11/2006	6.90	0.00	2.83
UST45/S941-MW05	T-II	9.73	8/7/2006	7.45	0.00	2.28
UST45/S941-MW05	T-II	9.73	9/1/2006	6.79	0.00	2.94
UST45/S941-MW05	T-II	9.73	10/2/2006	8.00	0.00	1.73
UST45/S941-MW05	T-II	9.73	11/13/2006	7.40	0.00	2.33
UST45/S941-MW05	T-II	9.73	12/7/2006	6.52	0.00	3.21
UST45/S941-MW05	T-II	9.73	1/5/2007	5.94	0.00	3.79
UST45/S941-MW06	T-I	10.71	9/21/2005	17.35	0.00	-6.64
UST45/S941-MW06	T-I	10.71	10/28/2005	16.22	0.00	-5.51
UST45/S941-MW06	T-I	10.71	11/18/2005	17.02	0.00	-6.31
UST45/S941-MW06	T-I	10.71	12/6/2005	17.28	0.00	-6.57
UST45/S941-MW06	T-I	10.71	1/10/2006	16.92	0.00	-6.21
UST45/S941-MW06	T-I	10.71	2/22/2006	17.29	0.00	-6.58
UST45/S941-MW06	T-I	10.71	3/14/2006	17.29	0.00	-6.58
UST45/S941-MW06	T-I	10.71	4/6/2006	17.65	0.00	-6.94
UST45/S941-MW06	T-I	10.71	5/2/2006	17.62	0.00	-6.91
UST45/S941-MW06	T-I	10.71	6/6/2006	17.97	0.00	-7.26
UST45/S941-MW06	T-I	10.71	7/11/2006	16.77	0.00	-6.06

Notes:
1. T-II = Type II monitoring well
   T-III = Type III monitoring well
   RW = Recovery well
2. TOC = Top of casing elevation in feet relative to Mean Sea Level.
3. DTW = Depth to water (in feet) from top of well casing.
4. Product thickness is measured in feet.
5. GWT = Groundwater Table
6. A zero ("0.00") in the product thickness column indicates no measureable thickness.
7. GWT Elevation corrected for measurable free product, if present.

Well No.	Type	TOC	Date	DTW	Product Thickness	Corrected GWT Elevation
UST45/S941-MW06	T-I	10.71	8/7/2006	17.25	0.00	-6.54
UST45/S941-MW06	T-I	10.71	9/1/2006	16.90	0.00	-6.19
UST45/S941-MW06	T-I	10.71	10/2/2006	17.27	0.00	-6.56
UST45/S941-MW06	T-I	10.71	11/13/2006	17.07	0.00	-6.36
UST45/S941-MW06	T-I	10.71	12/7/2006	16.37	0.00	-5.66
UST45/S941-MW06	T-I	10.71	1/5/2007	16.10	0.00	-5.39
UST45/S941-MW06	T-I	10.71	6/19/2007	17.81	0.00	-7.10
UST45/S941-MW07	T-II	10.00	9/21/2005	4.60	0.00	5.40
UST45/S941-MW07	T-II	10.00	10/28/2005	2.52	0.00	7.48
UST45/S941-MW07	T-II	10.00	11/18/2005	4.51	0.00	5.49
UST45/S941-MW07	T-II	10.00	12/6/2005	4.07	0.00	5.93
UST45/S941-MW07	T-II	10.00	1/10/2006	3.87	0.00	6.13
UST45/S941-MW07	T-II	10.00	2/22/2006	4.51	0.00	5.49
UST45/S941-MW07	T-II	10.00	3/14/2006	4.63	0.00	5.37
UST45/S941-MW07	T-II	10.00	4/6/2006	5.13	0.00	4.87
UST45/S941-MW07	T-II	10.00	5/2/2006	5.08	0.00	4.92
UST45/S941-MW07	T-II	10.00	6/6/2006	5.22	0.00	4.78
UST45/S941-MW07	T-II	10.00	7/11/2006	4.15	0.00	5.85
UST45/S941-MW07	T-II	10.00	8/7/2006	4.62	0.00	5.38
UST45/S941-MW07	T-II	10.00	9/1/2006	3.92	0.00	6.08
UST45/S941-MW07	T-II	10.00	10/2/2006	4.99	0.00	5.01
UST45/S941-MW07	T-II	10.00	11/13/2006	3.98	0.00	6.02
UST45/S941-MW07	T-II	10.00	12/7/2006	3.62	0.00	6.38
UST45/S941-MW07	T-II	10.00	1/5/2007	2.45	0.00	7.55
UST45/S941-MW08	T-II	10.73	9/21/2005	5.20	0.00	5.53
UST45/S941-MW08	T-II	10.73	10/28/2005	3.71	0.00	7.02
UST45/S941-MW08	T-II	10.73	11/18/2005	5.14	0.00	5.59
UST45/S941-MW08	T-II	10.73	12/6/2005	4.88	0.00	5.85
UST45/S941-MW08	T-II	10.73	1/10/2006	4.74	0.00	5.99
UST45/S941-MW08	T-II	10.73	2/22/2006	5.10	0.00	5.63
UST45/S941-MW08	T-II	10.73	3/14/2006	5.28	0.00	5.45

Notes:
1. T-II = Type II monitoring well
   T-III = Type III monitoring well
   RW = Recovery well
2. TOC = Top of casing elevation in feet relative to Mean Sea Level.
3. DTW = Depth to water (in feet) from top of well casing.
4. Product thickness is measured in feet.
5. GWT = Groundwater Table
6. A zero ("0.00") in the product thickness column indicates no measureable thickness.
7. GWT Elevation corrected for measurable free product, if present.

Well No.	Type	TOC	Date	DTW	Product Thickness	Corrected GWT Elevation
UST45/S941-MW08	T-II	10.73	4/6/2006	5.69	0.00	5.04
UST45/S941-MW08	T-II	10.73	5/2/2006	5.54	0.00	5.19
UST45/S941-MW08	T-II	10.73	6/6/2006	5.68	0.00	5.05
UST45/S941-MW08	T-II	10.73	7/11/2006	5.05	0.00	5.68
UST45/S941-MW08	T-II	10.73	8/7/2006	5.32	0.00	5.41
UST45/S941-MW08	T-II	10.73	9/1/2006	4.72	0.00	6.01
UST45/S941-MW08	T-II	10.73	10/2/2006	5.72	0.00	5.01
UST45/S941-MW08	T-II	10.73	11/13/2006	4.97	0.00	5.76
UST45/S941-MW08	T-II	10.73	12/7/2006	4.60	0.00	6.13
UST45/S941-MW08	T-II	10.73	1/5/2007	3.88	0.00	6.85
UST45/S941-MW09	T-III	10.27	9/21/2005	16.92	0.00	-6.65
UST45/S941-MW09	T-III	10.27	10/28/2005	15.75	0.00	-5.48
UST45/S941-MW09	T-III	10.27	11/18/2005	16.58	0.00	-6.31
UST45/S941-MW09	T-III	10.27	12/6/2005	16.95	0.00	-6.68
UST45/S941-MW09	T-III	10.27	1/10/2006	16.48	0.00	-6.21
UST45/S941-MW09	T-III	10.27	2/22/2006	16.87	0.00	-6.60
UST45/S941-MW09	T-III	10.27	3/14/2006	16.86	0.00	-6.59
UST45/S941-MW09	T-III	10.27	4/6/2006	17.22	0.00	-6.95
UST45/S941-MW09	T-III	10.27	5/2/2006	17.22	0.00	-6.95
UST45/S941-MW09	T-III	10.27	6/6/2006	17.60	0.00	-7.33
UST45/S941-MW09	T-III	10.27	7/11/2006	16.30	0.00	-6.03
UST45/S941-MW09	T-III	10.27	8/7/2006	16.81	0.00	-6.54
UST45/S941-MW09	T-III	10.27	9/1/2006	16.60	0.00	-6.33
UST45/S941-MW09	T-III	10.27	10/2/2006	16.82	0.00	-6.55
UST45/S941-MW09	T-III	10.27	11/13/2006	16.61	0.00	-6.34
UST45/S941-MW09	T-III	10.27	12/7/2006	15.90	0.00	-5.63
UST45/S941-MW09	T-III	10.27	1/5/2007	15.53	0.00	-5.26
UST45/S941-MW09	T-III	10.27	1/25/2007	16.01	0.00	-5.74
UST45/S941-MW09	T-III	10.27	6/19/2007	17.41	0.00	-7.14
UST45/S941-MW09	T-III	10.27	12/19/2007	18.80	0.00	-8.53
UST45/S941-MW12	T-II	9.91	9/21/2005	5.50	0.00	4.41

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4. Product thickness is measured in feet.
5. GWT = Groundwater Table
6. A zero ("0.00") in the product thickness column indicates no measureable thickness.
7. GWT Elevation corrected for measurable free product, if present.

Well No.	Type	TOC	Date	DTW	Product Thickness	Corrected GWT Elevation
UST45/S941-MW12	T-II	9.91	10/28/2005	2.66	0.00	7.25
UST45/S941-MW12	T-II	9.91	11/18/2005	4.12	0.00	5.79
UST45/S941-MW12	T-II	9.91	12/6/2005	3.80	0.00	6.11
UST45/S941-MW12	T-II	9.91	1/10/2006	3.50	0.00	6.41
UST45/S941-MW12	T-II	9.91	2/22/2006	4.10	0.00	5.81
UST45/S941-MW12	T-II	9.91	3/14/2006	4.23	0.00	5.68
UST45/S941-MW12	T-II	9.91	4/6/2006	4.93	0.00	4.98
UST45/S941-MW12	T-II	9.91	5/2/2006	4.32	0.00	5.59
UST45/S941-MW12	T-II	9.91	6/6/2006	5.98	0.00	3.93
UST45/S941-MW12	T-II	9.91	7/11/2006	3.71	0.00	6.20
UST45/S941-MW12	T-II	9.91	8/7/2006	4.22	0.00	5.69
UST45/S941-MW12	T-II	9.91	9/1/2006	3.50	0.00	6.41
UST45/S941-MW12	T-II	9.91	10/2/2006	4.70	0.00	5.21
UST45/S941-MW12	T-II	9.91	11/13/2006	4.15	0.00	5.76
UST45/S941-MW12	T-II	9.91	12/7/2006	3.00	0.00	6.91
UST45/S941-MW12	T-II	9.91	1/5/2007	2.38	0.00	7.53
UST45/S941-MW13	T-II	8.32	9/21/2005	6.42	0.00	1.90
UST45/S941-MW13	T-II	8.32	10/28/2005	4.25	0.00	4.07
UST45/S941-MW13	T-II	8.32	11/18/2005	5.40	0.00	2.92
UST45/S941-MW13	T-II	8.32	12/6/2005	5.30	0.00	3.02
UST45/S941-MW13	T-II	8.32	1/10/2006	4.94	0.00	3.38
UST45/S941-MW13	T-II	8.32	2/22/2006	8.56	0.00	-0.24
UST45/S941-MW13	T-II	8.32	3/14/2006	5.38	0.00	2.94
UST45/S941-MW13	T-II	8.32	4/6/2006	6.23	0.00	2.09
UST45/S941-MW13	T-II	8.32	5/2/2006	7.13	0.00	1.19
UST45/S941-MW13	T-II	8.32	6/6/2006		0.00	
UST45/S941-MW13	T-II	8.32	7/11/2006	4.66	0.00	3.66
UST45/S941-MW13	T-II	8.32	8/7/2006	5.19	0.00	3.13
UST45/S941-MW13	T-II	8.32	9/1/2006	4.94	0.00	3.38
UST45/S941-MW13	T-II	8.32	10/2/2006	5.66	0.00	2.66
UST45/S941-MW13	T-II	8.32	11/13/2006	6.40	0.00	1.92

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4. Product thickness is measured in feet.
5. GWT = Groundwater Table
6. A zero ("0.00") in the product thickness column indicates no measureable thickness.
7. GWT Elevation corrected for measurable free product, if present.

Well No.	Type	TOC	Date	DTW	Product Thickness	Corrected GWT Elevation
UST45/S941-MW13	T-II	8.32	12/7/2006	5.77	0.00	2.55
UST45/S941-MW13	T-II	8.32	1/5/2007	5.13	0.00	3.19
UST45/S941-MW13	T-II	8.32	1/25/2007	4.77	0.00	3.55
UST45/S941-MW13	T-II	8.32	6/19/2007	8.02	0.00	0.30
UST45/S941-MW13	T-II	8.32	12/19/2007	10.93	0.00	-2.61
UST45/S941-MW14	T-II	7.32	9/21/2005	8.33	0.00	-1.01
UST45/S941-MW14	T-II	7.32	10/28/2005	7.15	0.00	0.17
UST45/S941-MW14	T-II	7.32	11/18/2005	8.15	0.00	-0.83
UST45/S941-MW14	T-II	7.32	12/6/2005	8.35	0.00	-1.03
UST45/S941-MW14	T-II	7.32	1/10/2006	8.58	0.00	-1.26
UST45/S941-MW14	T-II	7.32	2/22/2006	8.99	0.00	-1.67
UST45/S941-MW14	T-II	7.32	3/14/2006	9.10	0.00	-1.78
UST45/S941-MW14	T-II	7.32	4/6/2006	11.38	0.00	-4.06
UST45/S941-MW14	T-II	7.32	5/2/2006	11.88	0.00	-4.56
UST45/S941-MW14	T-II	7.32	6/6/2006	13.11	0.00	-5.79
UST45/S941-MW14	T-II	7.32	7/11/2006	7.56	0.00	-0.24
UST45/S941-MW14	T-II	7.32	8/7/2006	8.40	0.00	-1.08
UST45/S941-MW14	T-II	7.32	9/1/2006	8.58	0.00	-1.26
UST45/S941-MW14	T-II	7.32	10/2/2006	8.66	0.00	-1.34
UST45/S941-MW14	T-II	7.32	11/13/2006	8.72	0.00	-1.40
UST45/S941-MW14	T-II	7.32	12/7/2006	7.77	0.00	-0.45
UST45/S941-MW14	T-II	7.32	1/5/2007	7.75	0.00	-0.43
UST45/S941-MW14	T-II	7.32	1/25/2007	7.82	0.00	-0.50
UST45/S941-MW14	T-II	7.32	6/19/2007	13.75	0.00	-6.43
UST45/S941-MW14	T-II	7.32	12/19/2007	15.56	0.00	-8.24
UST45/S941-MW15	T-II	8.26	9/21/2005	8.42	0.00	-0.16
UST45/S941-MW15	T-II	8.26	10/28/2005	6.56	0.00	1.70
UST45/S941-MW15	T-II	8.26	11/18/2005	8.13	0.00	0.13
UST45/S941-MW15	T-II	8.26	12/6/2005	8.70	0.00	-0.44
UST45/S941-MW15	T-II	8.26	1/10/2006	8.45	0.00	-0.19
UST45/S941-MW15	T-II	8.26	2/22/2006	8.57	0.00	-0.31

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4. Product thickness is measured in feet.
5. GWT = Groundwater Table
6. A zero ("0.00") in the product thickness column indicates no measureable thickness.
7. GWT Elevation corrected for measurable free product, if present.

Well No.	Type	TOC	Date	DTW	Product Thickness	Corrected GWT Elevation
UST45/S941-MW15	T-II	8.26	3/14/2006	8.70	0.00	-0.44
UST45/S941-MW15	T-II	8.26	4/6/2006	9.59	0.00	-1.33
UST45/S941-MW15	T-II	8.26	5/2/2006	9.87	0.00	-1.61
UST45/S941-MW15	T-II	8.26	6/6/2006	9.41	0.00	-1.15
UST45/S941-MW15	T-II	8.26	7/11/2006	6.75	0.00	1.51
UST45/S941-MW15	T-II	8.26	8/7/2006	8.48	0.00	-0.22
UST45/S941-MW15	T-II	8.26	9/1/2006	8.45	0.00	-0.19
UST45/S941-MW15	T-II	8.26	10/2/2006	8.25	0.00	0.01
UST45/S941-MW15	T-II	8.26	11/13/2006	8.73	0.00	-0.47
UST45/S941-MW15	T-II	8.26	12/7/2006	7.75	0.00	0.51
UST45/S941-MW15	T-II	8.26	1/5/2007	7.77	0.00	0.49
UST45/S941-MW15	T-II	8.26	1/25/2007	7.38	0.00	0.88
UST45/S941-MW15	T-II	8.26	6/19/2007	10.48	0.00	-2.22
UST45/S941-MW15	T-II	8.26	12/19/2007	13.18	0.00	-4.92
UST45/S941-MW17	T-II	8.95	9/21/2005	5.52	0.00	3.43
UST45/S941-MW17	T-II	8.95	10/28/2005	3.42	0.00	5.53
UST45/S941-MW17	T-II	8.95	11/18/2005	5.60	0.00	3.35
UST45/S941-MW17	T-II	8.95	12/6/2005	5.31	0.00	3.64
UST45/S941-MW17	T-II	8.95	1/10/2006	5.20	0.00	3.75
UST45/S941-MW17	T-II	8.95	2/22/2006	5.81	0.00	3.14
UST45/S941-MW17	T-II	8.95	3/14/2006	6.04	0.00	2.91
UST45/S941-MW17	T-II	8.95	4/6/2006	6.74	0.00	2.21
UST45/S941-MW17	T-II	8.95	5/2/2006	6.51	0.00	2.44
UST45/S941-MW17	T-II	8.95	6/6/2006	6.08	0.00	2.87
UST45/S941-MW17	T-II	8.95	7/11/2006	4.62	0.00	4.33
UST45/S941-MW17	T-II	8.95	8/7/2006	5.36	0.00	3.59
UST45/S941-MW17	T-II	8.95	9/1/2006	5.24	0.00	3.71
UST45/S941-MW17	T-II	8.95	10/2/2006	5.95	0.00	3.00
UST45/S941-MW17	T-II	8.95	11/13/2006	4.81	0.00	4.14
UST45/S941-MW17	T-II	8.95	12/7/2006	4.70	0.00	4.25
UST45/S941-MW17	T-II	8.95	1/5/2007	3.15	0.00	5.80

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4. Product thickness is measured in feet.
5. GWT = Groundwater Table
6. A zero ("0.00") in the product thickness column indicates no measureable thickness.
7. GWT Elevation corrected for measurable free product, if present.

Well No.	Type	TOC	Date	DTW	Product Thickness	Corrected GWT Elevation
UST45/S941-MW18	T-II	10.80	9/21/2005	6.76	0.00	4.04
UST45/S941-MW18	T-II	10.80	10/28/2005	4.47	0.00	6.33
UST45/S941-MW18	T-II	10.80	11/18/2005	6.32	0.00	4.48
UST45/S941-MW18	T-II	10.80	12/6/2005	6.05	0.00	4.75
UST45/S941-MW18	T-II	10.80	1/10/2006	5.36	0.00	5.44
UST45/S941-MW18	T-II	10.80	2/22/2006	6.44	0.00	4.36
UST45/S941-MW18	T-II	10.80	3/14/2006	6.56	0.00	4.24
UST45/S941-MW18	T-II	10.80	4/6/2006	7.26	0.00	3.54
UST45/S941-MW18	T-II	10.80	5/2/2006	7.29	0.00	3.51
UST45/S941-MW18	T-II	10.80	6/6/2006	7.65	0.00	3.15
UST45/S941-MW18	T-II	10.80	7/11/2006	5.40	0.00	5.40
UST45/S941-MW18	T-II	10.80	8/7/2006	6.20	0.00	4.60
UST45/S941-MW18	T-II	10.80	9/1/2006	5.36	0.00	5.44
UST45/S941-MW18	T-II	10.80	10/2/2006	6.65	0.00	4.15
UST45/S941-MW18	T-II	10.80	11/13/2006	5.96	0.00	4.84
UST45/S941-MW18	T-II	10.80	12/7/2006	5.25	0.00	5.55
UST45/S941-MW18	T-II	10.80	1/5/2007	4.15	0.00	6.65
UST45/S941-MW19	T-II	11.85	9/21/2005	5.63	0.00	6.22
UST45/S941-MW19	T-II	11.85	10/28/2005	2.98	0.00	8.87
UST45/S941-MW19	T-II	11.85	11/18/2005	4.87	0.00	6.98
UST45/S941-MW19	T-II	11.85	12/6/2005	4.37	0.00	7.48
UST45/S941-MW19	T-II	11.85	1/10/2006	4.07	0.00	7.78
UST45/S941-MW19	T-II	11.85	2/22/2006	4.68	0.00	7.17
UST45/S941-MW19	T-II	11.85	3/14/2006	4.77	0.00	7.08
UST45/S941-MW19	T-II	11.85	4/6/2006	5.36	0.00	6.49
UST45/S941-MW19	T-II	11.85	5/2/2006	5.54	0.00	6.31
UST45/S941-MW19	T-II	11.85	6/6/2006	6.21	0.00	5.64
UST45/S941-MW19	T-II	11.85	7/11/2006	4.72	0.00	7.13
UST45/S941-MW19	T-II	11.85	8/7/2006	5.22	0.00	6.63
UST45/S941-MW19	T-II	11.85	9/1/2006	4.03	0.00	7.82
UST45/S941-MW19	T-II	11.85	10/2/2006	5.50	0.00	6.35

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4. Product thickness is measured in feet.
5. GWT = Groundwater Table
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7. GWT Elevation corrected for measurable free product, if present.

Well No.	Type	TOC	Date	DTW	Product Thickness	Corrected GWT Elevation
UST45/S941-MW19	T-II	11.85	11/13/2006	4.55	0.00	7.30
UST45/S941-MW19	T-II	11.85	12/7/2006	3.74	0.00	8.11
UST45/S941-MW19	T-II	11.85	1/5/2007	2.70	0.00	9.15
UST45/S941-MW20	T-II	10.64	9/21/2005	4.71	0.00	5.93
UST45/S941-MW20	T-II	10.64	10/28/2005	2.60	0.00	8.04
UST45/S941-MW20	T-II	10.64	11/18/2005	4.60	0.00	6.04
UST45/S941-MW20	T-II	10.64	12/6/2005	4.11	0.00	6.53
UST45/S941-MW20	T-II	10.64	1/10/2006	3.85	0.00	6.79
UST45/S941-MW20	T-II	10.64	2/22/2006	4.43	0.00	6.21
UST45/S941-MW20	T-II	10.64	3/14/2006	4.58	0.00	6.06
UST45/S941-MW20	T-II	10.64	4/6/2006	5.08	0.00	5.56
UST45/S941-MW20	T-II	10.64	5/2/2006	5.09	0.00	5.55
UST45/S941-MW20	T-II	10.64	6/6/2006	5.27	0.00	5.37
UST45/S941-MW20	T-II	10.64	7/11/2006	4.30	0.00	6.34
UST45/S941-MW20	T-II	10.64	8/7/2006	4.73	0.00	5.91
UST45/S941-MW20	T-II	10.64	9/1/2006	3.89	0.00	6.75
UST45/S941-MW20	T-II	10.64	10/2/2006	5.08	0.00	5.56
UST45/S941-MW20	T-II	10.64	11/13/2006	4.02	0.00	6.62
UST45/S941-MW20	T-II	10.64	12/7/2006	3.60	0.00	7.04
UST45/S941-MW20	T-II	10.64	1/5/2007	2.42	0.00	8.22
UST45/S941-MW21	T-III	7.13	9/21/2005	13.35	0.00	-6.22
UST45/S941-MW21	T-III	7.13	10/28/2005	12.40	0.00	-5.27
UST45/S941-MW21	T-III	7.13	11/18/2005	13.50	0.00	-6.37
UST45/S941-MW21	T-III	7.13	12/6/2005	13.80	0.00	-6.67
UST45/S941-MW21	T-III	7.13	1/10/2006	13.75	0.00	-6.62
UST45/S941-MW21	T-III	7.13	2/22/2006	14.13	0.00	-7.00
UST45/S941-MW21	T-III	7.13	3/14/2006	14.22	0.00	-7.09
UST45/S941-MW21	T-III	7.13	4/6/2006	14.63	0.00	-7.50
UST45/S941-MW21	T-III	7.13	5/2/2006	14.57	0.00	-7.44
UST45/S941-MW21	T-III	7.13	6/6/2006	14.64	0.00	-7.51
UST45/S941-MW21	T-III	7.13	7/11/2006	4.28	0.00	2.85

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4. Product thickness is measured in feet.
5. GWT = Groundwater Table
6. A zero ("0.00") in the product thickness column indicates no measureable thickness.
7. GWT Elevation corrected for measurable free product, if present.

Well No.	Type	TOC	Date	DTW	Product Thickness	Corrected GWT Elevation
UST45/S941-MW21	T-III	7.13	8/7/2006	13.92	0.00	-6.79
UST45/S941-MW21	T-III	7.13	9/1/2006	13.75	0.00	-6.62
UST45/S941-MW21	T-III	7.13	10/2/2006	13.76	0.00	-6.63
UST45/S941-MW21	T-III	7.13	11/13/2006	13.73	0.00	-6.60
UST45/S941-MW21	T-III	7.13	12/7/2006	12.90	0.00	-5.77
UST45/S941-MW21	T-III	7.13	1/5/2007	12.85	0.00	-5.72
UST45/S941-MW21	T-III	7.13	1/25/2007	13.10	0.00	-5.97
UST45/S941-MW21	T-III	7.13	6/19/2007	14.72	0.00	-7.59
UST45/S941-MW21	T-III	7.13	12/19/2007	15.79	0.00	-8.66
UST45/S941-PW01R	Unknown	12.14	9/21/2005	7.00	0.00	5.14
UST45/S941-PW01R	Unknown	12.14	10/28/2005	4.76	0.00	7.38
UST45/S941-PW01R	Unknown	12.14	11/18/2005	6.88	0.00	5.26
UST45/S941-PW01R	Unknown	12.14	12/6/2005	6.40	0.00	5.74
UST45/S941-PW01R	Unknown	12.14	1/10/2006	6.30	0.00	5.84
UST45/S941-PW01R	Unknown	12.14	2/22/2006	6.89	0.00	5.25
UST45/S941-PW01R	Unknown	12.14	3/14/2006	7.04	0.00	5.10
UST45/S941-PW01R	Unknown	12.14	4/6/2006	7.59	0.00	4.55
UST45/S941-PW01R	Unknown	12.14	5/2/2006	7.55	0.00	4.59
UST45/S941-PW01R	Unknown	12.14	6/6/2006	7.63	0.00	4.51
UST45/S941-PW01R	Unknown	12.14	7/11/2006	6.37	0.00	5.77
UST45/S941-PW01R	Unknown	12.14	8/7/2006	6.96	0.00	5.18
UST45/S941-PW01R	Unknown	12.14	9/1/2006	6.31	0.00	5.83
UST45/S941-PW01R	Unknown	12.14	10/2/2006	7.37	0.00	4.77
UST45/S941-PW01R	Unknown	12.14	11/13/2006	6.23	0.00	5.91
UST45/S941-PW01R	Unknown	12.14	12/7/2006	5.92	0.00	6.22
UST45/S941-PW01R	Unknown	12.14	1/5/2007	4.65	0.00	7.49

Notes:
1. T-II = Type II monitoring well
   T-III = Type III monitoring well
   RW = Recovery well
2. TOC = Top of casing elevation in feet relative to Mean Sea Level.
3. DTW = Depth to water (in feet) from top of well casing.
4. Product thickness is measured in feet.
5. GWT = Groundwater Table
6. A zero ("0.00") in the product thickness column indicates no measureable thickness.
7. GWT Elevation corrected for measurable free product, if present.

TABLE 12.2A

SITE 45/S941

GROUNDWATER LABORATORY ANALYTICAL RESULTS - JULY 2005 TO DECEMBER 2007

EPA METHOD 602

Contaminant of Concern →		Benzene	Diisopropyl ether (DIPE)	Ethylbenzene	Methyl-tert butyl ether	Toluene	Total Xylenes
Well ID	Date						
2L GWQS		1	70	550	200	1000	530
GCL		5000	70000	550000	200000	257500	87500
UST45/S941-MW01/45	10/27/2005	BQL	BQL	BQL	BQL	BQL	BQL
UST45/S941-MW01/45	4/6/2006	BQL	BQL	BQL	BQL	BQL	BQL
UST45/S941-MW01/45	8/9/2006	BQL	BQL	BQL	BQL	BQL	BQL
UST45/S941-MW02R	4/7/2006	BQL	BQL	BQL	BQL	BQL	BQL
UST45/S941-MW02R	8/8/2006	BQL	BQL	BQL	BQL	BQL	BQL
UST45/S941-MW02R	11/14/2006	BQL	BQL	BQL	BQL	1.40	BQL
UST45/S941-MW03R	4/6/2006	BQL	BQL	BQL	BQL	BQL	BQL
UST45/S941-MW03R	8/8/2006	BQL	BQL	BQL	BQL	BQL	BQL
UST45/S941-MW03R	11/14/2006	BQL	BQL	BQL	BQL	0.37	BQL

Notes:
1. 2L GWQS = North Carolina groundwater quality standard 15A NCAC 2L .0202
2. GCL = Gross Contamination Levels for ground water as defined in "Guidelines for Assessment and Corrective Action" North Carolina Underground Storage Tank Section, effective July 1, 2001
3. All units are in ug/L (Micrograms per Liter)
4. BQL = Below Quantitaion Limits
5. A zero in the 2L GWQS row indicates the 2L Standard is equal to the laboratory detection limit
6. A zero in the GCL row indicates a GCL has not been established
7. Shaded concentrations indicate exceedance of the 2L GWQS
8. Only compounds which were detected are shown on table. All other compounds were BQL

TABLE 12.2A

SITE 45/S941

GROUNDWATER LABORATORY ANALYTICAL RESULTS - JULY 2005 TO DECEMBER 2007

EPA METHOD 602

Contaminant of Concern →		Benzene	Diisopropyl ether (DIPE)	Ethylbenzene	Methyl-tert butyl ether	Toluene	Total Xylenes
Well ID	Date						
2L GWQS		1	70	550	200	1000	530
GCL		5000	70000	550000	200000	257500	87500
UST45/S941-MW04	11/4/2005	BQL	BQL	BQL	BQL	BQL	BQL
UST45/S941-MW04	4/6/2006	BQL	BQL	BQL	BQL	BQL	BQL
UST45/S941-MW04	8/9/2006	BQL	BQL	BQL	BQL	BQL	BQL
UST45/S941-MW04/45	10/27/2005	BQL	BQL	BQL	BQL	BQL	BQL
UST45/S941-MW04/45	4/6/2006	BQL	BQL	BQL	BQL	BQL	BQL
UST45/S941-MW04/45	8/9/2006	BQL	BQL	BQL	BQL	BQL	BQL
UST45/S941-MW04/45	11/14/2006	BQL	BQL	BQL	BQL	0.20	BQL
UST45/S941-MW05	11/4/2005	BQL	BQL	BQL	BQL	BQL	BQL
UST45/S941-MW05	4/6/2006	BQL	BQL	BQL	BQL	BQL	BQL
UST45/S941-MW05	8/7/2006	BQL	BQL	BQL	BQL	BQL	BQL
UST45/S941-MW05	11/14/2006	BQL	BQL	BQL	BQL	BQL	BQL

Notes:
1. 2L GWQS = North Carolina groundwater quality standard 15A NCAC 2L .0202
2. GCL = Gross Contamination Levels for ground water as defined in "Guidelines for Assessment and Corrective Action" North Carolina Underground Storage Tank Section, effective July 1, 2001
3. All units are in ug/L (Micrograms per Liter)
4. BQL = Below Quantitaion Limits
5. A zero in the 2L GWQS row indicates the 2L Standard is equal to the laboratory detection limit
6. A zero in the GCL row indicates a GCL has not been established
7. Shaded concentrations indicate exceedance of the 2L GWQS
8. Only compounds which were detected are shown on table. All other compounds were BQL

TABLE 12.2A

SITE 45/S941

GROUNDWATER LABORATORY ANALYTICAL RESULTS - JULY 2005 TO DECEMBER 2007

EPA METHOD 602

Contaminant of Concern →		Benzene	Diisopropyl ether (DIPE)	Ethylbenzene	Methyl-tert butyl ether	Toluene	Total Xylenes
Well ID	Date						
2L GWQS		1	70	550	200	1000	530
GCL		5000	70000	550000	200000	257500	87500
UST45/S941-MW06	11/2/2005	BQL	BQL	BQL	BQL	BQL	BQL
UST45/S941-MW06	4/7/2006	BQL	BQL	BQL	BQL	BQL	BQL
UST45/S941-MW06	8/9/2006	BQL	BQL	BQL	BQL	BQL	BQL
UST45/S941-MW06	11/13/2006	BQL	BQL	BQL	BQL	1.15	BQL
UST45/S941-MW07	11/2/2005	BQL	BQL	BQL	BQL	BQL	BQL
UST45/S941-MW07	4/10/2006	BQL	BQL	BQL	BQL	BQL	BQL
UST45/S941-MW07	8/7/2006	BQL	BQL	BQL	BQL	BQL	BQL
UST45/S941-MW07	11/13/2006	BQL	BQL	BQL	BQL	1.21	BQL
UST45/S941-MW08	11/2/2005	BQL	BQL	BQL	BQL	BQL	BQL
UST45/S941-MW08	4/7/2006	BQL	BQL	BQL	BQL	BQL	BQL
UST45/S941-MW08	8/7/2006	BQL	BQL	BQL	BQL	BQL	BQL
UST45/S941-MW08	11/13/2006	BQL	BQL	BQL	BQL	1.36	BQL

Notes:
1. 2L GWQS = North Carolina groundwater quality standard 15A NCAC 2L .0202
2. GCL = Gross Contamination Levels for ground water as defined in "Guidelines for Assessment and Corrective Action" North Carolina Underground Storage Tank Section, effective July 1, 2001
3. All units are in ug/L (Micrograms per Liter)
4. BQL = Below Quantitaion Limits
5. A zero in the 2L GWQS row indicates the 2L Standard is equal to the laboratory detection limit
6. A zero in the GCL row indicates a GCL has not been established
7. Shaded concentrations indicate exceedance of the 2L GWQS
8. Only compounds which were detected are shown on table. All other compounds were BQL

TABLE 12.2A

SITE 45/S941

GROUNDWATER LABORATORY ANALYTICAL RESULTS - JULY 2005 TO DECEMBER 2007

EPA METHOD 602

Contaminant of Concern →		Benzene	Diisopropyl ether (DIPE)	Ethylbenzene	Methyl-tert butyl ether	Toluene	Total Xylenes
Well ID	Date						
2L GWQS		1	70	550	200	1000	530
GCL		5000	70000	550000	200000	257500	87500
UST45/S941-MW09	11/2/2005	4.00	BQL	BQL	4.00	BQL	BQL
UST45/S941-MW09	4/6/2006	5.87	BQL	BQL	4.46	BQL	BQL
UST45/S941-MW09	8/9/2006	6.16	BQL	BQL	5.06	BQL	BQL
UST45/S941-MW09	11/13/2006	6.03	0.33	0.31	8.56	1.32	1.97
UST45/S941-MW12	11/4/2005	BQL	BQL	BQL	BQL	BQL	BQL
UST45/S941-MW12	4/6/2006	BQL	BQL	BQL	BQL	BQL	BQL
UST45/S941-MW12	8/8/2006	BQL	BQL	BQL	BQL	BQL	BQL
UST45/S941-MW13	10/27/2005	BQL	BQL	BQL	BQL	BQL	BQL
UST45/S941-MW13	4/6/2006	BQL	BQL	BQL	BQL	BQL	BQL
UST45/S941-MW13	8/8/2006	BQL	BQL	BQL	BQL	BQL	BQL

Notes:
1. 2L GWQS = North Carolina groundwater quality standard 15A NCAC 2L .0202
2. GCL = Gross Contamination Levels for ground water as defined in "Guidelines for Assessment and Corrective Action" North Carolina Underground Storage Tank Section, effective July 1, 2001
3. All units are in ug/L (Micrograms per Liter)
4. BQL = Below Quantitaion Limits
5. A zero in the 2L GWQS row indicates the 2L Standard is equal to the laboratory detection limit
6. A zero in the GCL row indicates a GCL has not been established
7. Shaded concentrations indicate exceedance of the 2L GWQS
8. Only compounds which were detected are shown on table. All other compounds were BQL

TABLE 12.2A

SITE 45/S941

GROUNDWATER LABORATORY ANALYTICAL RESULTS - JULY 2005 TO DECEMBER 2007

EPA METHOD 602

Contaminant of Concern →		Benzene	Diisopropyl ether (DIPE)	Ethylbenzene	Methyl-tert butyl ether	Toluene	Total Xylenes
Well ID	Date						
2L GWQS		1	70	550	200	1000	530
GCL		5000	70000	550000	200000	257500	87500
UST45/S941-MW14	10/28/2005	BQL	BQL	BQL	BQL	BQL	BQL
UST45/S941-MW14	4/6/2006	BQL	BQL	BQL	BQL	BQL	BQL
UST45/S941-MW14	8/9/2006	BQL	BQL	BQL	BQL	BQL	BQL
UST45/S941-MW14	11/14/2006	BQL	BQL	BQL	BQL	BQL	BQL
UST45/S941-MW15	10/28/2005	BQL	BQL	BQL	BQL	BQL	BQL
UST45/S941-MW15	4/6/2006	BQL	BQL	BQL	BQL	BQL	BQL
UST45/S941-MW15	8/8/2006	BQL	BQL	BQL	BQL	BQL	BQL
UST45/S941-MW17	11/4/2005	BQL	BQL	BQL	BQL	BQL	BQL
UST45/S941-MW17	4/7/2006	BQL	BQL	BQL	BQL	BQL	BQL
UST45/S941-MW17	8/7/2006	BQL	BQL	BQL	BQL	BQL	BQL
UST45/S941-MW17	11/13/2006	BQL	BQL	BQL	BQL	0.94	BQL

Notes:
1. 2L GWQS = North Carolina groundwater quality standard 15A NCAC 2L .0202
2. GCL = Gross Contamination Levels for ground water as defined in "Guidelines for Assessment and Corrective Action" North Carolina Underground Storage Tank Section, effective July 1, 2001
3. All units are in ug/L (Micrograms per Liter)
4. BQL = Below Quantitaion Limits
5. A zero in the 2L GWQS row indicates the 2L Standard is equal to the laboratory detection limit
6. A zero in the GCL row indicates a GCL has not been established
7. Shaded concentrations indicate exceedance of the 2L GWQS
8. Only compounds which were detected are shown on table. All other compounds were BQL

TABLE 12.2A

SITE 45/S941

GROUNDWATER LABORATORY ANALYTICAL RESULTS - JULY 2005 TO DECEMBER 2007

EPA METHOD 602

Contaminant of Concern →		Benzene	Diisopropyl ether (DIPE)	Ethylbenzene	Methyl-tert butyl ether	Toluene	Total Xylenes
Well ID	Date						
2L GWQS		1	70	550	200	1000	530
GCL		5000	70000	550000	200000	257500	87500
UST45/S941-MW18	11/3/2005	BQL	BQL	BQL	BQL	BQL	BQL
UST45/S941-MW18	4/6/2006	BQL	BQL	BQL	BQL	BQL	BQL
UST45/S941-MW18	8/8/2006	BQL	BQL	BQL	BQL	BQL	BQL
UST45/S941-MW19	11/3/2005	BQL	BQL	BQL	BQL	BQL	BQL
UST45/S941-MW19	4/6/2006	BQL	BQL	BQL	BQL	BQL	BQL
UST45/S941-MW19	8/7/2006	BQL	BQL	BQL	BQL	BQL	BQL
UST45/S941-MW19	11/13/2006	BQL	BQL	BQL	BQL	1.20	BQL
UST45/S941-MW20	11/4/2005	BQL	BQL	BQL	BQL	BQL	BQL
UST45/S941-MW20	4/6/2006	BQL	BQL	BQL	BQL	BQL	BQL
UST45/S941-MW20	8/7/2006	BQL	BQL	BQL	BQL	BQL	BQL
UST45/S941-MW20	11/13/2006	BQL	BQL	BQL	BQL	1.01	BQL

Notes:
1. 2L GWQS = North Carolina groundwater quality standard 15A NCAC 2L .0202
2. GCL = Gross Contamination Levels for ground water as defined in "Guidelines for Assessment and Corrective Action" North Carolina Underground Storage Tank Section, effective July 1, 2001
3. All units are in ug/L (Micrograms per Liter)
4. BQL = Below Quantitaion Limits
5. A zero in the 2L GWQS row indicates the 2L Standard is equal to the laboratory detection limit
6. A zero in the GCL row indicates a GCL has not been established
7. Shaded concentrations indicate exceedance of the 2L GWQS
8. Only compounds which were detected are shown on table. All other compounds were BQL

TABLE 12.2A

SITE 45/S941

GROUNDWATER LABORATORY ANALYTICAL RESULTS - JULY 2005 TO DECEMBER 2007

EPA METHOD 602

Contaminant of Concern →		Benzene	Diisopropyl ether (DIPE)	Ethylbenzene	Methyl-tert butyl ether	Toluene	Total Xylenes
Well ID	Date						
2L GWQS		1	70	550	200	1000	530
GCL		5000	70000	550000	200000	257500	87500
UST45/S941-MW21	10/27/2005	BQL	BQL	BQL	BQL	BQL	BQL
UST45/S941-MW21	4/6/2006	BQL	BQL	BQL	BQL	BQL	BQL
UST45/S941-MW21	8/9/2006	BQL	BQL	BQL	BQL	BQL	BQL
UST45/S941-MW21	11/14/2006	BQL	BQL	BQL	BQL	0.69	BQL
UST45/S941-PW01R	4/6/2006	BQL	BQL	BQL	BQL	BQL	BQL
UST45/S941-PW01R	8/8/2006	BQL	BQL	BQL	BQL	BQL	BQL
UST45/S941-PW01R	11/14/2006	BQL	BQL	BQL	BQL	1.25	BQL

Notes:
1. 2L GWQS = North Carolina groundwater quality standard 15A NCAC 2L .0202
2. GCL = Gross Contamination Levels for ground water as defined in "Guidelines for Assessment and Corrective Action" North Carolina Underground Storage Tank Section, effective July 1, 2001
3. All units are in ug/L (Micrograms per Liter)
4. BQL = Below Quantitaion Limits
5. A zero in the 2L GWQS row indicates the 2L Standard is equal to the laboratory detection limit
6. A zero in the GCL row indicates a GCL has not been established
7. Shaded concentrations indicate exceedance of the 2L GWQS
8. Only compounds which were detected are shown on table. All other compounds were BQL

TABLE 12.2B

SITE 45/S941

GROUNDWATER LABORATORY ANALYTICAL RESULTS - JULY 2005 TO DECEMBER 2007

EPA METHOD 8260

Contaminant of Concern →		1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	Acetone	Benzene	Chloromethane	Diisopropyl ether (DIPE)	Ethylbenzene	Methylene chloride	Methyl-tert-butyl ether	Naphthalene	Toluene	Total Xylenes
Well ID	**Date**												
2L GWQS		350	350	700	1	2.6	70	550	4.6	200	21	1000	530
GCL		28500	25000	700000	5000	2600	70000	550000	4600	200000	15500	257500	87500
UST45/S941-MW01/45	1/26/2007	0.33	BQL	BQL	BQL	BQL	BQL	0.35	BQL	BQL	BQL	1.24	0.89
UST45/S941-MW01/45	6/20/2007	0.47	BQL	3.22	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
UST45/S941-MW01/45	12/19/2007	BQL	BQL	BQL	BQL	1.00	BQL	BQL	BQL	BQL	BQL	BQL	BQL
UST45/S941-MW04/45	1/25/2007	0.49	BQL	BQL	BQL	BQL	BQL	0.37	BQL	BQL	BQL	1.22	0.96
UST45/S941-MW04/45	6/20/2007	0.49	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
UST45/S941-MW04/45	12/19/2007	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
UST45/S941-MW06	6/20/2007	0.59	BQL	BQL	BQL	BQL	BQL	BQL	BQL	1.49	BQL	BQL	BQL
UST45/S941-MW09	1/25/2007	BQL	BQL	BQL	5.08	BQL	0.30	0.41	BQL	12.40	BQL	1.57	0.78
UST45/S941-MW09	6/19/2007	1.43	0.56	BQL	5.19	BQL	0.51	0.61	BQL	7.95	BQL	0.38	1.72
UST45/S941-MW09	12/19/2007	BQL	BQL	53.30	BQL	BQL	BQL	BQL	BQL	0.91	BQL	0.11	BQL

Notes:
1. 2L GWQS = North Carolina groundwater quality standard 15A NCAC 2L .0202
2. GCL = Gross Contamination Levels for ground water as defined in "Guidelines for Assessment and Corrective Action" North Carolina Underground Storage Tank Section, effective July 1, 2001
3. All units are in ug/L (Micrograms per Liter)
4. BQL = Below Quantitaion Limits
5. A zero in the 2L GWQS row indicates the 2L Standard is equal to the laboratory detection limit
6. A zero in the GCL row indicates a GCL has not been established
7. Shaded concentrations indicate exceedance of the 2L GWQS
8. Only compounds which were detected are shown on table. All other compounds were BQL

TABLE 12.2B

SITE 45/S941

GROUNDWATER LABORATORY ANALYTICAL RESULTS - JULY 2005 TO DECEMBER 2007

EPA METHOD 8260

Contaminant of Concern →		1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	Acetone	Benzene	Chloromethane	Diisopropyl ether (DIPE)	Ethylbenzene	Methylene chloride	Methyl-tert-butyl ether	Naphthalene	Toluene	Total Xylenes
Well ID	**Date**												
2L GWQS		350	350	700	1	2.6	70	550	4.6	200	21	1000	530
GCL		28500	25000	700000	5000	2600	70000	550000	4600	200000	15500	257500	87500
UST45/S941-MW13	1/26/2007	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	0.69	BQL
UST45/S941-MW13	6/20/2007	BQL	BQL	3.39	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
UST45/S941-MW13	12/19/2007	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
UST45/S941-MW14	1/25/2007	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	0.89	BQL
UST45/S941-MW14	6/20/2007	1.18	BQL	7.26	BQL	BQL	BQL	BQL	BQL	BQL	0.59	BQL	BQL
UST45/S941-MW15	1/26/2007	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	1.05	BQL
UST45/S941-MW15	6/20/2007	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
UST45/S941-MW15	12/19/2007	BQL	BQL	BQL	BQL	BQL	BQL	BQL	1.63	BQL	BQL	0.26	BQL
UST45/S941-MW21	1/25/2007	BQL	BQL	BQL	BQL	BQL	BQL	0.24	BQL	0.44	BQL	1.27	0.45
UST45/S941-MW21	6/20/2007	0.69	BQL	2.42	BQL	BQL	BQL	BQL	BQL	0.57	BQL	BQL	BQL
UST45/S941-MW21	12/19/2007	BQL	BQL	BQL	0.15	BQL	BQL	BQL	BQL	0.56	BQL	BQL	BQL

Notes:
1. 2L GWQS = North Carolina groundwater quality standard 15A NCAC 2L .0202
2. GCL = Gross Contamination Levels for ground water as defined in "Guidelines for Assessment and Corrective Action" North Carolina Underground Storage Tank Section, effective July 1, 2001
3. All units are in ug/L (Micrograms per Liter)
4. BQL = Below Quantitaion Limits
5. A zero in the 2L GWQS row indicates the 2L Standard is equal to the laboratory detection limit
6. A zero in the GCL row indicates a GCL has not been established
7. Shaded concentrations indicate exceedance of the 2L GWQS
8. Only compounds which were detected are shown on table. All other compounds were BQL

TABLE 12.3A

SITE 45/S941

GROUNDWATER LABORATORY ANALYTICAL RESULTS - JULY 2005 TO DECEMBER 2007

EPA METHOD 625

Contaminant of Concern →		Acenaphthene	Naphthalene
Well ID	Date		
2L GWQS		80	21
GCL		2120	15500
UST45/S941-MW01/45	10/27/2005	BQL	BQL
UST45/S941-MW01/45	4/6/2006	BQL	BQL
UST45/S941-MW01/45	8/9/2006	BQL	BQL
UST45/S941-MW02R	4/7/2006	BQL	BQL
UST45/S941-MW02R	8/8/2006	BQL	BQL
UST45/S941-MW02R	11/14/2006	BQL	BQL
UST45/S941-MW03R	4/6/2006	BQL	BQL
UST45/S941-MW03R	8/8/2006	BQL	BQL
UST45/S941-MW03R	11/14/2006	BQL	BQL

Notes:
1. 2L GWQS = North Carolina groundwater quality standard 15A NCAC 2L .0202
2. GCL = Gross Contamination Levels for ground water as defined in "Guidelines for Assessment and Corrective Action" North Carolina Underground Storage Tank Section, effective July 1, 2001
3. All units are in ug/L (Micrograms per Liter)
4. BQL = Below Quantitaion Limits
5. A zero in the 2L GWQS row indicates the 2L Standard is equal to the laboratory detection limit
6. A zero in the GCL row indicates a GCL has not been established
7. Shaded concentrations indicate exceedance of the 2L GWQS
8. Only compounds which were detected are shown on table. All other compounds were BQL

TABLE 12.3A

SITE 45/S941

GROUNDWATER LABORATORY ANALYTICAL RESULTS - JULY 2005 TO DECEMBER 2007

EPA METHOD 625

Contaminant of Concern →			
Well ID	**Date**	**Acenaphthene**	**Naphthalene**
2L GWQS		80	21
GCL		2120	15500
UST45/S941-MW04	11/4/2005	BQL	BQL
UST45/S941-MW04	4/6/2006	BQL	BQL
UST45/S941-MW04	8/9/2006	BQL	BQL
UST45/S941-MW04/45	10/27/2005	BQL	BQL
UST45/S941-MW04/45	4/6/2006	BQL	BQL
UST45/S941-MW04/45	8/9/2006	BQL	BQL
UST45/S941-MW04/45	11/14/2006	BQL	BQL
UST45/S941-MW05	11/4/2005	BQL	BQL
UST45/S941-MW05	4/6/2006	BQL	BQL
UST45/S941-MW05	8/7/2006	BQL	BQL
UST45/S941-MW05	11/14/2006	BQL	BQL

Notes:
1. 2L GWQS = North Carolina groundwater quality standard 15A NCAC 2L .0202
2. GCL = Gross Contamination Levels for ground water as defined in "Guidelines for Assessment and Corrective Action" North Carolina Underground Storage Tank Section, effective July 1, 2001
3. All units are in ug/L (Micrograms per Liter)
4. BQL = Below Quantitaion Limits
5. A zero in the 2L GWQS row indicates the 2L Standard is equal to the laboratory detection limit
6. A zero in the GCL row indicates a GCL has not been established
7. Shaded concentrations indicate exceedance of the 2L GWQS
8. Only compounds which were detected are shown on table. All other compounds were BQL

TABLE 12.3A

SITE 45/S941

GROUNDWATER LABORATORY ANALYTICAL RESULTS - JULY 2005 TO DECEMBER 2007

EPA METHOD 625

Contaminant of Concern →			
Well ID	**Date**	Acenaphthene	Naphthalene
	2L GWQS	80	21
	GCL	2120	15500
UST45/S941-MW06	11/2/2005	BQL	BQL
UST45/S941-MW06	4/7/2006	BQL	BQL
UST45/S941-MW06	8/9/2006	BQL	BQL
UST45/S941-MW06	11/13/2006	1.30	BQL
UST45/S941-MW07	11/2/2005	BQL	BQL
UST45/S941-MW07	4/6/2006	BQL	BQL
UST45/S941-MW07	8/7/2006	BQL	BQL
UST45/S941-MW07	11/13/2006	BQL	BQL
UST45/S941-MW08	11/2/2005	BQL	BQL
UST45/S941-MW08	4/7/2006	BQL	BQL
UST45/S941-MW08	8/7/2006	BQL	BQL
UST45/S941-MW08	11/13/2006	BQL	BQL

Notes:
1. 2L GWQS = North Carolina groundwater quality standard 15A NCAC 2L .0202
2. GCL = Gross Contamination Levels for ground water as defined in "Guidelines for Assessment and Corrective Action" North Carolina Underground Storage Tank Section, effective July 1, 2001
3. All units are in ug/L (Micrograms per Liter)
4. BQL = Below Quantitaion Limits
5. A zero in the 2L GWQS row indicates the 2L Standard is equal to the laboratory detection limit
6. A zero in the GCL row indicates a GCL has not been established
7. Shaded concentrations indicate exceedance of the 2L GWQS
8. Only compounds which were detected are shown on table. All other compounds were BQL

TABLE 12.3A

SITE 45/S941

GROUNDWATER LABORATORY ANALYTICAL RESULTS - JULY 2005 TO DECEMBER 2007

EPA METHOD 625

Contaminant of Concern →			
Well ID	**Date**	Acenaphthene	Naphthalene
	2L GWQS	80	21
	GCL	2120	15500
UST45/S941-MW09	11/2/2005	BQL	BQL
UST45/S941-MW09	4/6/2006	BQL	BQL
UST45/S941-MW09	8/9/2006	BQL	BQL
UST45/S941-MW09	11/13/2006	BQL	6.10
UST45/S941-MW12	11/4/2005	BQL	BQL
UST45/S941-MW12	4/6/2006	BQL	BQL
UST45/S941-MW12	8/8/2006	BQL	BQL
UST45/S941-MW13	10/27/2005	BQL	BQL
UST45/S941-MW13	4/6/2006	BQL	BQL
UST45/S941-MW13	8/8/2006	BQL	BQL

Notes:
1. 2L GWQS = North Carolina groundwater quality standard 15A NCAC 2L .0202
2. GCL = Gross Contamination Levels for ground water as defined in "Guidelines for Assessment and Corrective Action" North Carolina Underground Storage Tank Section, effective July 1, 2001
3. All units are in ug/L (Micrograms per Liter)
4. BQL = Below Quantitaion Limits
5. A zero in the 2L GWQS row indicates the 2L Standard is equal to the laboratory detection limit
6. A zero in the GCL row indicates a GCL has not been established
7. Shaded concentrations indicate exceedance of the 2L GWQS
8. Only compounds which were detected are shown on table. All other compounds were BQL

TABLE 12.3A

SITE 45/S941

GROUNDWATER LABORATORY ANALYTICAL RESULTS - JULY 2005 TO DECEMBER 2007

EPA METHOD 625

Contaminant of Concern →		Acenaphthene	Naphthalene
Well ID	**Date**		
2L GWQS		80	21
GCL		2120	15500
UST45/S941-MW14	10/28/2005	BQL	BQL
UST45/S941-MW14	4/6/2006	BQL	BQL
UST45/S941-MW14	8/9/2006	BQL	BQL
UST45/S941-MW14	11/14/2006	BQL	BQL
UST45/S941-MW15	10/28/2005	BQL	BQL
UST45/S941-MW15	4/6/2006	BQL	BQL
UST45/S941-MW15	8/8/2006	BQL	BQL
UST45/S941-MW17	11/4/2005	BQL	BQL
UST45/S941-MW17	4/7/2006	BQL	BQL
UST45/S941-MW17	8/7/2006	BQL	BQL
UST45/S941-MW17	11/13/2006	BQL	BQL

Notes:
1. 2L GWQS = North Carolina groundwater quality standard 15A NCAC 2L .0202
2. GCL = Gross Contamination Levels for ground water as defined in "Guidelines for Assessment and Corrective Action" North Carolina Underground Storage Tank Section, effective July 1, 2001
3. All units are in ug/L (Micrograms per Liter)
4. BQL = Below Quantitaion Limits
5. A zero in the 2L GWQS row indicates the 2L Standard is equal to the laboratory detection limit
6. A zero in the GCL row indicates a GCL has not been established
7. Shaded concentrations indicate exceedance of the 2L GWQS
8. Only compounds which were detected are shown on table. All other compounds were BQL

TABLE 12.3A

SITE 45/S941

GROUNDWATER LABORATORY ANALYTICAL RESULTS - JULY 2005 TO DECEMBER 2007

EPA METHOD 625

Contaminant of Concern →			
Well ID	**Date**	Acenaphthene	Naphthalene
	2L GWQS	80	21
	GCL	2120	15500
UST45/S941-MW18	11/3/2005	BQL	BQL
UST45/S941-MW18	4/6/2006	BQL	BQL
UST45/S941-MW18	8/8/2006	BQL	BQL
UST45/S941-MW19	11/3/2005	BQL	BQL
UST45/S941-MW19	4/6/2006	BQL	BQL
UST45/S941-MW19	8/7/2006	BQL	BQL
UST45/S941-MW19	11/13/2006	BQL	BQL
UST45/S941-MW20	11/4/2005	BQL	BQL
UST45/S941-MW20	4/6/2006	BQL	BQL
UST45/S941-MW20	8/7/2006	BQL	BQL
UST45/S941-MW20	11/13/2006	BQL	BQL

Notes:
1. 2L GWQS = North Carolina groundwater quality standard 15A NCAC 2L .0202
2. GCL = Gross Contamination Levels for ground water as defined in "Guidelines for Assessment and Corrective Action" North Carolina Underground Storage Tank Section, effective July 1, 2001
3. All units are in ug/L (Micrograms per Liter)
4. BQL = Below Quantitaion Limits
5. A zero in the 2L GWQS row indicates the 2L Standard is equal to the laboratory detection limit
6. A zero in the GCL row indicates a GCL has not been established
7. Shaded concentrations indicate exceedance of the 2L GWQS
8. Only compounds which were detected are shown on table. All other compounds were BQL

TABLE 12.3A

SITE 45/S941

GROUNDWATER LABORATORY ANALYTICAL RESULTS - JULY 2005 TO DECEMBER 2007

EPA METHOD 625

Contaminant of Concern →		Acenaphthene	Naphthalene
Well ID	Date		
2L GWQS		80	21
GCL		2120	15500
UST45/S941-MW21	10/27/2005	BQL	BQL
UST45/S941-MW21	4/6/2006	BQL	BQL
UST45/S941-MW21	8/9/2006	BQL	BQL
UST45/S941-MW21	11/14/2006	BQL	BQL
UST45/S941-PW01R	4/6/2006	BQL	BQL
UST45/S941-PW01R	8/8/2006	BQL	BQL
UST45/S941-PW01R	11/14/2006	BQL	6.20

Notes:
1. 2L GWQS = North Carolina groundwater quality standard 15A NCAC 2L .0202
2. GCL = Gross Contamination Levels for ground water as defined in "Guidelines for Assessment and Corrective Action" North Carolina Underground Storage Tank Section, effective July 1, 2001
3. All units are in ug/L (Micrograms per Liter)
4. BQL = Below Quantitaion Limits
5. A zero in the 2L GWQS row indicates the 2L Standard is equal to the laboratory detection limit
6. A zero in the GCL row indicates a GCL has not been established
7. Shaded concentrations indicate exceedance of the 2L GWQS
8. Only compounds which were detected are shown on table. All other compounds were BQL

TABLE 12.3B

SITE 45/S941

GROUNDWATER LABORATORY ANALYTICAL RESULTS - JULY 2005 TO DECEMBER 2007

EPA METHOD 8270

Contaminant of Concern →		2-Methylphenol	3- & 4-Methylphenol	Bis(2-ethylhexyl)phthalate	Di-n-octylphthalate
Well ID	Date				
2L GWQS		0	35	2.5	140
GCL		0	0	2500	0
UST45/S941-MW01/45	1/26/2007	BQL	BQL	BQL	BQL
UST45/S941-MW01/45	6/20/2007	BQL	BQL	BQL	BQL
UST45/S941-MW01/45	12/19/2007	BQL	BQL	BQL	BQL
UST45/S941-MW04/45	1/25/2007	BQL	BQL	**134.00**	BQL
UST45/S941-MW04/45	6/20/2007	BQL	BQL	BQL	BQL
UST45/S941-MW04/45	12/19/2007	BQL	BQL	BQL	BQL
UST45/S941-MW06	6/20/2007	BQL	BQL	1.40	BQL
UST45/S941-MW09	1/25/2007	BQL	BQL	BQL	BQL
UST45/S941-MW09	6/19/2007	BQL	BQL	**8.20**	2.30
UST45/S941-MW09	12/19/2007	**13.20**	3.30	BQL	BQL

Notes:
1. 2L GWQS = North Carolina groundwater quality standard 15A NCAC 2L .0202
2. GCL = Gross Contamination Levels for ground water as defined in "Guidelines for Assessment and Corrective Action" North Carolina Underground Storage Tank Section, effective July 1, 2001
3. All units are in ug/L (Micrograms per Liter)
4. BQL = Below Quantitaion Limits
5. A zero in the 2L GWQS row indicates the 2L Standard is equal to the laboratory detection limit
6. A zero in the GCL row indicates a GCL has not been established
7. Shaded concentrations indicate exceedance of the 2L GWQS
8. Only compounds which were detected are shown on table. All other compounds were BQL

TABLE 12.3B

SITE 45/S941

GROUNDWATER LABORATORY ANALYTICAL RESULTS - JULY 2005 TO DECEMBER 2007

EPA METHOD 8270

Contaminant of Concern →		2-Methylphenol	3- & 4-Methylphenol	Bis(2-ethylhexyl)phthalate	Di-n-octylphthalate
Well ID	Date				
2L GWQS		0	35	2.5	140
GCL		0	0	2500	0
UST45/S941-MW13	1/26/2007	BQL	BQL	BQL	BQL
UST45/S941-MW13	6/20/2007	BQL	BQL	BQL	BQL
UST45/S941-MW13	12/19/2007	BQL	BQL	BQL	BQL
UST45/S941-MW14	1/25/2007	BQL	BQL	BQL	BQL
UST45/S941-MW14	6/20/2007	BQL	BQL	2.00	BQL
UST45/S941-MW15	1/26/2007	BQL	BQL	BQL	BQL
UST45/S941-MW15	6/20/2007	BQL	BQL	BQL	BQL
UST45/S941-MW15	12/19/2007	BQL	BQL	5.50	BQL
UST45/S941-MW21	1/25/2007	BQL	BQL	BQL	BQL
UST45/S941-MW21	6/20/2007	BQL	BQL	BQL	BQL
UST45/S941-MW21	12/19/2007	BQL	BQL	BQL	BQL

Notes:
1. 2L GWQS = North Carolina groundwater quality standard 15A NCAC 2L .0202
2. GCL = Gross Contamination Levels for ground water as defined in "Guidelines for Assessment and Corrective Action" North Carolina Underground Storage Tank Section, effective July 1, 2001
3. All units are in ug/L (Micrograms per Liter)
4. BQL = Below Quantitaion Limits
5. A zero in the 2L GWQS row indicates the 2L Standard is equal to the laboratory detection limit
6. A zero in the GCL row indicates a GCL has not been established
7. Shaded concentrations indicate exceedance of the 2L GWQS
8. Only compounds which were detected are shown on table. All other compounds were BQL

TABLE 12.4

SITE 45/S941

GROUNDWATER LABORATORY ANALYTICAL RESULTS - JULY 2005 TO DECEMBER 2007

EPA METHOD 6020

Contaminant of Concern →		
Well ID	**Date**	Lead
2L GWQS		15
GCL		15000
UST45/S941-MW01/45	10/27/2005	BQL
UST45/S941-MW01/45	4/6/2006	BQL
UST45/S941-MW01/45	8/9/2006	BQL
UST45/S941-MW01/45	1/26/2007	BQL
UST45/S941-MW01/45	6/20/2007	BQL
UST45/S941-MW01/45	12/19/2007	1.20
UST45/S941-MW02R	4/21/2006	BQL
UST45/S941-MW02R	8/8/2006	BQL
UST45/S941-MW02R	11/14/2006	BQL
UST45/S941-MW03R	4/6/2006	BQL
UST45/S941-MW03R	8/8/2006	BQL
UST45/S941-MW03R	11/14/2006	BQL

Notes:
1. 2L GWQS = North Carolina groundwater quality standard 15A NCAC 2L .0202
2. GCL = Gross Contamination Levels for ground water as defined in "Guidelines for Assessment and Corrective Action" North Carolina Underground Storage Tank Section, effective July 1, 2001
3. All units are in ug/L (Micrograms per Liter)
4. BQL = Below Quantitaion Limits
5. A zero in the 2L GWQS row indicates the 2L Standard is equal to the laboratory detection limit
6. A zero in the GCL row indicates a GCL has not been established
7. Shaded concentrations indicate exceedance of the 2L GWQS
8. Only compounds which were detected are shown on table. All other compounds were BQL

TABLE 12.4

SITE 45/S941

GROUNDWATER LABORATORY ANALYTICAL RESULTS - JULY 2005 TO DECEMBER 2007

EPA METHOD 6020

Contaminant of Concern →		
Well ID	**Date**	Lead
	2L GWQS	15
	GCL	15000
UST45/S941-MW04	4/6/2006	BQL
UST45/S941-MW04	8/9/2006	BQL
UST45/S941-MW04/45	10/27/2005	BQL
UST45/S941-MW04/45	4/6/2006	BQL
UST45/S941-MW04/45	8/9/2006	BQL
UST45/S941-MW04/45	11/14/2006	BQL
UST45/S941-MW04/45	6/20/2007	BQL
UST45/S941-MW04/45	12/19/2007	0.70
UST45/S941-MW05	4/6/2006	BQL
UST45/S941-MW05	8/7/2006	BQL
UST45/S941-MW05	11/14/2006	BQL

Notes:
1. 2L GWQS = North Carolina groundwater quality standard 15A NCAC 2L .0202
2. GCL = Gross Contamination Levels for ground water as defined in "Guidelines for Assessment and Corrective Action" North Carolina Underground Storage Tank Section, effective July 1, 2001
3. All units are in ug/L (Micrograms per Liter)
4. BQL = Below Quantitaion Limits
5. A zero in the 2L GWQS row indicates the 2L Standard is equal to the laboratory detection limit
6. A zero in the GCL row indicates a GCL has not been established
7. Shaded concentrations indicate exceedance of the 2L GWQS
8. Only compounds which were detected are shown on table. All other compounds were BQL

TABLE 12.4

SITE 45/S941

GROUNDWATER LABORATORY ANALYTICAL RESULTS - JULY 2005 TO DECEMBER 2007

EPA METHOD 6020

Contaminant of Concern →		
Well ID	**Date**	Lead
	2L GWQS	15
	GCL	15000
UST45/S941-MW06	4/21/2006	BQL
UST45/S941-MW06	8/9/2006	BQL
UST45/S941-MW06	11/13/2006	BQL
UST45/S941-MW06	6/20/2007	BQL
UST45/S941-MW07	4/6/2006	BQL
UST45/S941-MW07	8/7/2006	BQL
UST45/S941-MW07	11/13/2006	BQL
UST45/S941-MW08	4/21/2006	BQL
UST45/S941-MW08	8/7/2006	BQL
UST45/S941-MW08	11/13/2006	BQL

Notes:
1. 2L GWQS = North Carolina groundwater quality standard 15A NCAC 2L .0202
2. GCL = Gross Contamination Levels for ground water as defined in "Guidelines for Assessment and Corrective Action" North Carolina Underground Storage Tank Section, effective July 1, 2001
3. All units are in ug/L (Micrograms per Liter)
4. BQL = Below Quantitaion Limits
5. A zero in the 2L GWQS row indicates the 2L Standard is equal to the laboratory detection limit
6. A zero in the GCL row indicates a GCL has not been established
7. Shaded concentrations indicate exceedance of the 2L GWQS
8. Only compounds which were detected are shown on table. All other compounds were BQL

TABLE 12.4

SITE 45/S941

GROUNDWATER LABORATORY ANALYTICAL RESULTS - JULY 2005 TO DECEMBER 2007

EPA METHOD 6020

Contaminant of Concern →		
Well ID	**Date**	**Lead**
	2L GWQS	15
	GCL	15000
UST45/S941-MW09	4/6/2006	BQL
UST45/S941-MW09	8/9/2006	BQL
UST45/S941-MW09	11/13/2006	BQL
UST45/S941-MW09	6/19/2007	BQL
UST45/S941-MW09	12/19/2007	1.08
UST45/S941-MW12	4/6/2006	BQL
UST45/S941-MW12	8/8/2006	BQL

Notes:
1. 2L GWQS = North Carolina groundwater quality standard 15A NCAC 2L .0202
2. GCL = Gross Contamination Levels for ground water as defined in "Guidelines for Assessment and Corrective Action" North Carolina Underground Storage Tank Section, effective July 1, 2001
3. All units are in ug/L (Micrograms per Liter)
4. BQL = Below Quantitaion Limits
5. A zero in the 2L GWQS row indicates the 2L Standard is equal to the laboratory detection limit
6. A zero in the GCL row indicates a GCL has not been established
7. Shaded concentrations indicate exceedance of the 2L GWQS
8. Only compounds which were detected are shown on table. All other compounds were BQL

TABLE 12.4

SITE 45/S941

GROUNDWATER LABORATORY ANALYTICAL RESULTS - JULY 2005 TO DECEMBER 2007

EPA METHOD 6020

Contaminant of Concern →		
Well ID	**Date**	Lead
	2L GWQS	15
	GCL	15000
UST45/S941-MW13	10/27/2005	BQL
UST45/S941-MW13	4/6/2006	BQL
UST45/S941-MW13	8/8/2006	BQL
UST45/S941-MW13	1/26/2007	BQL
UST45/S941-MW13	6/20/2007	BQL
UST45/S941-MW13	12/19/2007	8.35
UST45/S941-MW14	10/28/2005	BQL
UST45/S941-MW14	4/6/2006	BQL
UST45/S941-MW14	8/9/2006	BQL
UST45/S941-MW14	11/14/2006	BQL
UST45/S941-MW14	6/20/2007	1.10

Notes:
1. 2L GWQS = North Carolina groundwater quality standard 15A NCAC 2L .0202
2. GCL = Gross Contamination Levels for ground water as defined in "Guidelines for Assessment and Corrective Action" North Carolina Underground Storage Tank Section, effective July 1, 2001
3. All units are in ug/L (Micrograms per Liter)
4. BQL = Below Quantitaion Limits
5. A zero in the 2L GWQS row indicates the 2L Standard is equal to the laboratory detection limit
6. A zero in the GCL row indicates a GCL has not been established
7. Shaded concentrations indicate exceedance of the 2L GWQS
8. Only compounds which were detected are shown on table. All other compounds were BQL

TABLE 12.4

SITE 45/S941

GROUNDWATER LABORATORY ANALYTICAL RESULTS - JULY 2005 TO DECEMBER 2007

EPA METHOD 6020

Contaminant of Concern →		
Well ID	**Date**	**Lead**
	2L GWQS	15
	GCL	15000
UST45/S941-MW15	10/28/2005	BQL
UST45/S941-MW15	4/6/2006	BQL
UST45/S941-MW15	8/8/2006	BQL
UST45/S941-MW15	1/26/2007	1.23
UST45/S941-MW15	6/20/2007	BQL
UST45/S941-MW15	12/19/2007	**163.00**
UST45/S941-MW17	4/21/2006	BQL
UST45/S941-MW17	8/7/2006	BQL
UST45/S941-MW17	11/13/2006	BQL
UST45/S941-MW18	4/6/2006	BQL
UST45/S941-MW18	8/8/2006	BQL

Notes:
1. 2L GWQS = North Carolina groundwater quality standard 15A NCAC 2L .0202
2. GCL = Gross Contamination Levels for ground water as defined in "Guidelines for Assessment and Corrective Action" North Carolina Underground Storage Tank Section, effective July 1, 2001
3. All units are in ug/L (Micrograms per Liter)
4. BQL = Below Quantitaion Limits
5. A zero in the 2L GWQS row indicates the 2L Standard is equal to the laboratory detection limit
6. A zero in the GCL row indicates a GCL has not been established
7. Shaded concentrations indicate exceedance of the 2L GWQS
8. Only compounds which were detected are shown on table. All other compounds were BQL

TABLE 12.4

SITE 45/S941

GROUNDWATER LABORATORY ANALYTICAL RESULTS - JULY 2005 TO DECEMBER 2007

EPA METHOD 6020

Contaminant of Concern →		
Well ID	**Date**	**Lead**
	2L GWQS	15
	GCL	15000
UST45/S941-MW19	4/6/2006	BQL
UST45/S941-MW19	8/7/2006	BQL
UST45/S941-MW19	11/13/2006	BQL
UST45/S941-MW20	4/6/2006	BQL
UST45/S941-MW20	8/7/2006	BQL
UST45/S941-MW20	11/13/2006	BQL
UST45/S941-MW21	10/27/2005	BQL
UST45/S941-MW21	4/6/2006	BQL
UST45/S941-MW21	8/9/2006	BQL
UST45/S941-MW21	11/14/2006	BQL
UST45/S941-MW21	6/20/2007	BQL
UST45/S941-MW21	12/19/2007	0.65

Notes:
1. 2L GWQS = North Carolina groundwater quality standard 15A NCAC 2L .0202
2. GCL = Gross Contamination Levels for ground water as defined in "Guidelines for Assessment and Corrective Action" North Carolina Underground Storage Tank Section, effective July 1, 2001
3. All units are in ug/L (Micrograms per Liter)
4. BQL = Below Quantitaion Limits
5. A zero in the 2L GWQS row indicates the 2L Standard is equal to the laboratory detection limit
6. A zero in the GCL row indicates a GCL has not been established
7. Shaded concentrations indicate exceedance of the 2L GWQS
8. Only compounds which were detected are shown on table. All other compounds were BQL

TABLE 12.4

SITE 45/S941

GROUNDWATER LABORATORY ANALYTICAL RESULTS - JULY 2005 TO DECEMBER 2007

EPA METHOD 6020

Contaminant of Concern →		
Well ID	**Date**	**Lead**
	2L GWQS	15
	GCL	15000
UST45/S941-PW01R	4/6/2006	BQL
UST45/S941-PW01R	8/8/2006	BQL
UST45/S941-PW01R	11/14/2006	BQL

Notes:
1. 2L GWQS = North Carolina groundwater quality standard 15A NCAC 2L .0202
2. GCL = Gross Contamination Levels for ground water as defined in "Guidelines for Assessment and Corrective Action" North Carolina Underground Storage Tank Section, effective July 1, 2001
3. All units are in ug/L (Micrograms per Liter)
4. BQL = Below Quantitaion Limits
5. A zero in the 2L GWQS row indicates the 2L Standard is equal to the laboratory detection limit
6. A zero in the GCL row indicates a GCL has not been established
7. Shaded concentrations indicate exceedance of the 2L GWQS
8. Only compounds which were detected are shown on table. All other compounds were BQL

MCB CAMP LEJEUNE
UST MANAGEMENT PROGRAM
CALENDAR YEAR 2007

NAVFAC
Naval Facilities Engineering Command

LEGEND

Monitoring Wells
- Type I
- Type II
- Type III
- Pumping Well
- Unknown Well Type
- Water Supply Wells
- Above Ground Storage Tank
- Underground Storage Tank
- Railroad Tracks

Walls and Fences
- FENCE
- GATE
- WALL

Free Product
- Free Product Detected
- No Measurable Thickness
- Free Product Plume
- Buildings and Structures
- Demolished Structures
- Oil/Water Separators
- Slabs
- Roads
- Driveways
- Parking Lots
- Surface Water Bodies
- Creeks and Streams
- Historical Groundwater Flow Direction

Vegetation Cover
- Forestland
- Scrubland
- Wetland

Airfield Pavement
- HELIPAD
- RAMP
- RUNWAY
- SHLDR_OVERRUN
- TAXIWAY

NOTES

1. Free Product was not detected at this site in any of the wells gauged during this monitoring event.

CATLIN
Engineers and Scientists

SITE 45/S941
FREE PRODUCT PLUME MAP
THIRD QUARTER 2006

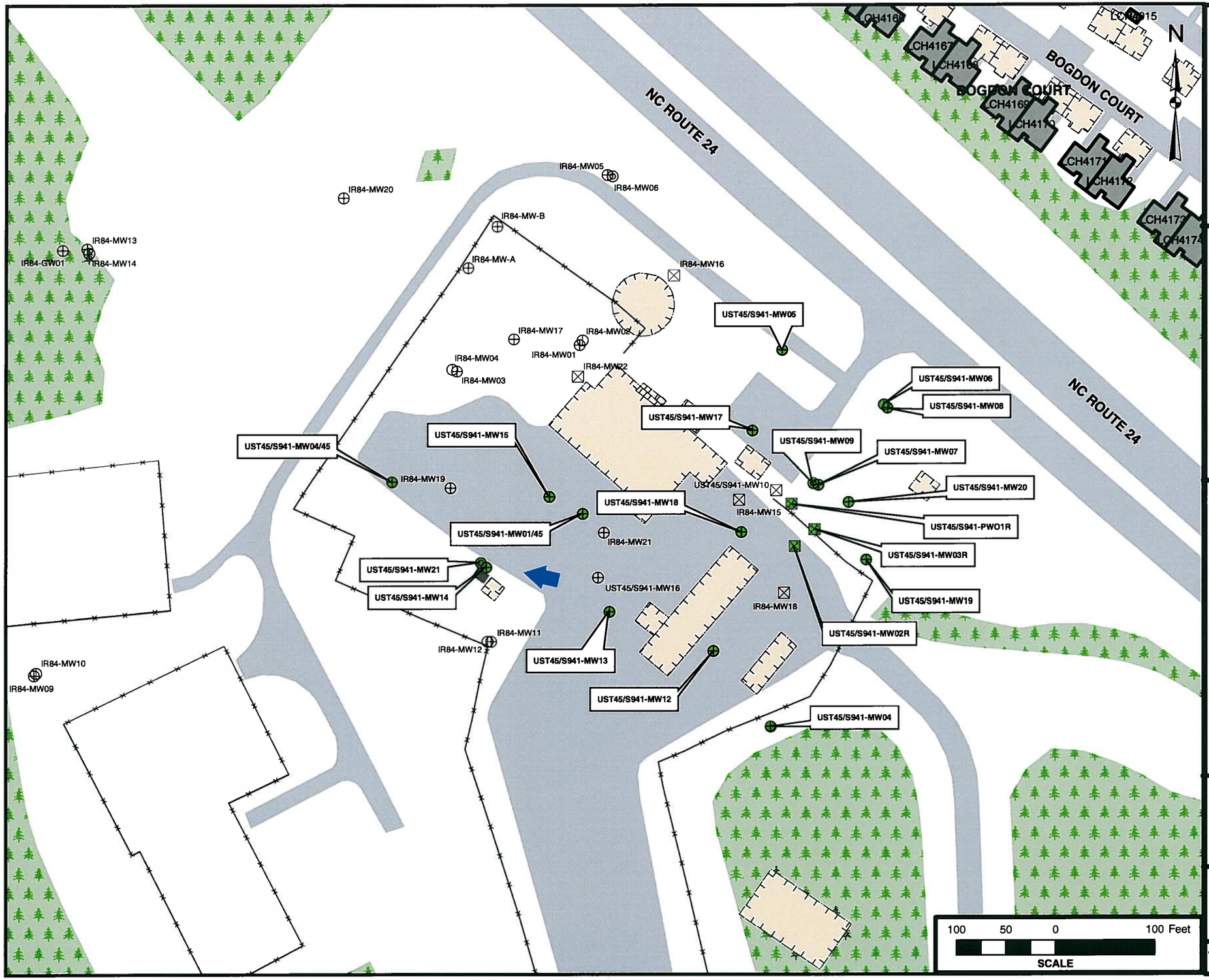
FIGURE **12.1A**

Job No.:	Date:	Scale:	Drawn By:	Checked By:
207-002	DEC 2007	AS SHOWN	SAC	MEM

100 50 0 100 Feet
SCALE

MCB CAMP LEJEUNE
UST MANAGEMENT PROGRAM
CALENDAR YEAR 2007

NAVFAC
Naval Facilities Engineering Command



LEGEND

Monitoring Wells
- Type I
- Type II
- Type III
- Pumping Well
- Unknown Well Type
- Water Supply Wells
- Above Ground Storage Tank
- Underground Storage Tank
- Railroad Tracks

Walls and Fences
- FENCE
- GATE
- WALL

Free Product
- Free Product Detected
- No Measurable Thickness
- Free Product Plume
- Buildings and Structures
- Demolished Structures
- Oil/Water Separators
- Slabs
- Roads
- Driveways
- Parking Lots
- Surface Water Bodies
- Creeks and Streams
- Historical Groundwater Flow Direction

Vegetation Cover
- Forestland
- Scrubland
- Wetland

Airfield Pavement
- HELIPAD
- RAMP
- RUNWAY
- SHLDR_OVERRUN
- TAXIWAY

NOTES

1. Free Product was not detected at this site in any of the wells gauged during this monitoring event.

CATLIN
Engineers and Scientists

SITE 45/S941
FREE PRODUCT PLUME MAP
FOURTH QUARTER 2006

FIGURE **12.1B**

Job No.:	Date:	Scale:	Drawn By:	Checked By:
207-002	DEC 2007	AS SHOWN	SAC	MEM

MCB CAMP LEJEUNE
UST MANAGEMENT PROGRAM
CALENDAR YEAR 2007

NAVFAC
Naval Facilities Engineering Command

N

NC ROUTE 24

BOGDON COURT

CH4166
CH4167
CH4168
CH4169
CH4170
CH4171
CH4172
CH4173
CH4174
CH4175
CH4215

IR84-MW20
IR84-MW05
IR84-MW06
IR84-MW-B
IR84-MW-A
IR84-MW13
IR84-GW01
IR84-MW14
IR84-MW16
IR84-MW17
IR84-MW02
IR84-MW01
IR84-MW04
IR84-MW03
IR84-MW22
UST45/S941-MW05
UST45/S941-MW06
UST45/S941-MW08
UST45/S941-MW17
UST45/S941-MW15
UST45/S941-MW04/45
IR84-MW19
UST45/S941-MW09
UST45/S941-MW07
UST45/S941-MW10
UST45/S941-MW20
IR84-MW15
UST45/S941-MW18
UST45/S941-PWO1R
UST45/S941-MW01/45
IR84-MW21
UST45/S941-MW03R
UST45/S941-MW21
UST45/S941-MW16
UST45/S941-MW19
UST45/S941-MW14
IR84-MW18
UST45/S941-MW02R
IR84-MW11
IR84-MW12
UST45/S941-MW13
UST45/S941-MW12
UST45/S941-MW04
IR84-MW10
IR84-MW09

100 50 0 100 Feet
SCALE

LEGEND

Monitoring Wells
- Type I
- Type II
- Type III
- Pumping Well
- Unknown Well Type
- Water Supply Wells
- Above Ground Storage Tank
- Underground Storage Tank
- Railroad Tracks

Walls and Fences
- FENCE
- GATE
- WALL

Free Product
- Free Product Detected
- No Measurable Thickness
- Free Product Plume
- Buildings and Structures
- Demolished Structures
- Oil/Water Separators
- Slabs
- Roads
- Driveways
- Parking Lots
- Surface Water Bodies
- Creeks and Streams
- Historical Groundwater Flow Direction

Vegetation Cover
- Forestland
- Scrubland
- Wetland

Airfield Pavement
- HELIPAD
- RAMP
- RUNWAY
- SHLDR_OVERRUN
- TAXIWAY

NOTES

1. Free Product was not detected at this site in any of the wells gauged during this monitoring event.

CATLIN
Engineers and Scientists

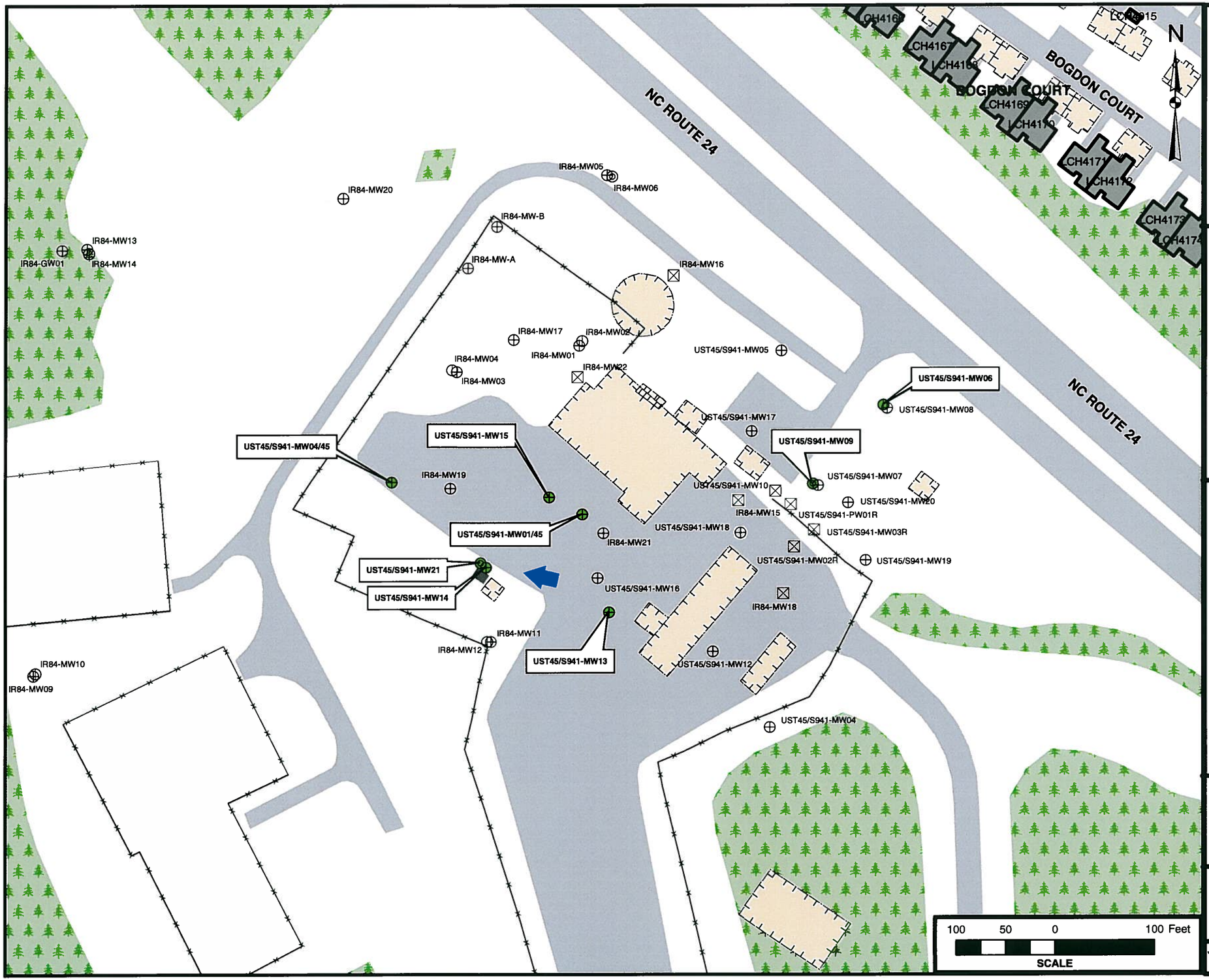
SITE 45/S941
FREE PRODUCT PLUME MAP
FIRST QUARTER 2007

FIGURE
12.1C

Job No.:	Date:	Scale:	Drawn By:	Checked By:
207-002	DEC 2007	AS SHOWN	SAC	MEM

MCB CAMP LEJEUNE
UST MANAGEMENT PROGRAM
CALENDAR YEAR 2007

NAVFAC
Naval Facilities Engineering Command



LEGEND

Monitoring Wells
- Type I
- Type II
- Type III
- Pumping Well
- Unknown Well Type
- Water Supply Wells
- Above Ground Storage Tank
- Underground Storage Tank
- Railroad Tracks

Walls and Fences
- FENCE
- GATE
- WALL

Free Product
- Free Product Detected
- No Measurable Thickness
- Free Product Plume
- Buildings and Structures
- Demolished Structures
- Oil/Water Separators
- Slabs
- Roads
- Driveways
- Parking Lots
- Surface Water Bodies
- Creeks and Streams
- Historical Groundwater Flow Direction

Vegetation Cover
- Forestland
- Scrubland
- Wetland

Airfield Pavement
- HELIPAD
- RAMP
- RUNWAY
- SHLDR_OVERRUN
- TAXIWAY

NOTES

1. Free Product was not detected at this site in any of the wells gauged during this monitoring event.

CATLIN
Engineers and Scientists

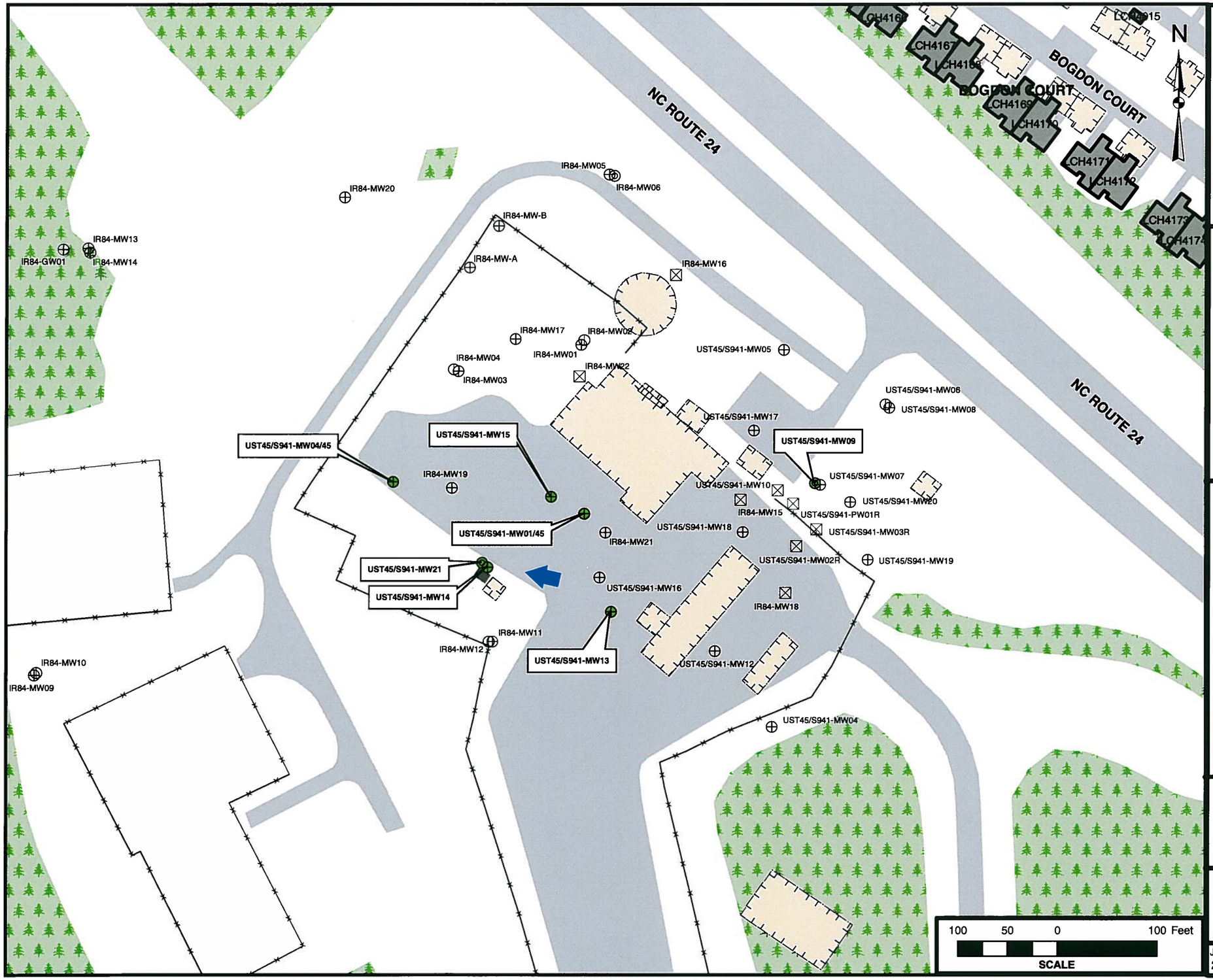
SITE 45/S941
FREE PRODUCT PLUME MAP
SECOND QUARTER 2007

FIGURE
12.1D

Job No.:	Date:	Scale:	Drawn By:	Checked By:
207-002	DEC 2007	AS SHOWN	SAC	MEM

MCB CAMP LEJEUNE
UST MANAGEMENT PROGRAM
CALENDAR YEAR 2007

NAVFAC
Naval Facilities Engineering Command



LEGEND

Monitoring Wells
- Type I
- Type II
- Type III
- Pumping Well
- Unknown Well Type
- Water Supply Wells
- Above Ground Storage Tank
- Underground Storage Tank
- Railroad Tracks

Walls and Fences
- FENCE
- GATE
- WALL

Free Product
- Free Product Detected
- No Measurable Thickness
- Free Product Plume
- Buildings and Structures
- Demolished Structures
- Oil/Water Separators
- Slabs
- Roads
- Driveways
- Parking Lots
- Surface Water Bodies
- Creeks and Streams
- Historical Groundwater Flow Direction

Vegetation Cover
- Forestland
- Scrubland
- Wetland

Airfield Pavement
- HELIPAD
- RAMP
- RUNWAY
- SHLDR_OVERRUN
- TAXIWAY

NOTES

1. Free Product was not detected at this site in any of the wells gauged during this monitoring event.

CATLIN
Engineers and Scientists

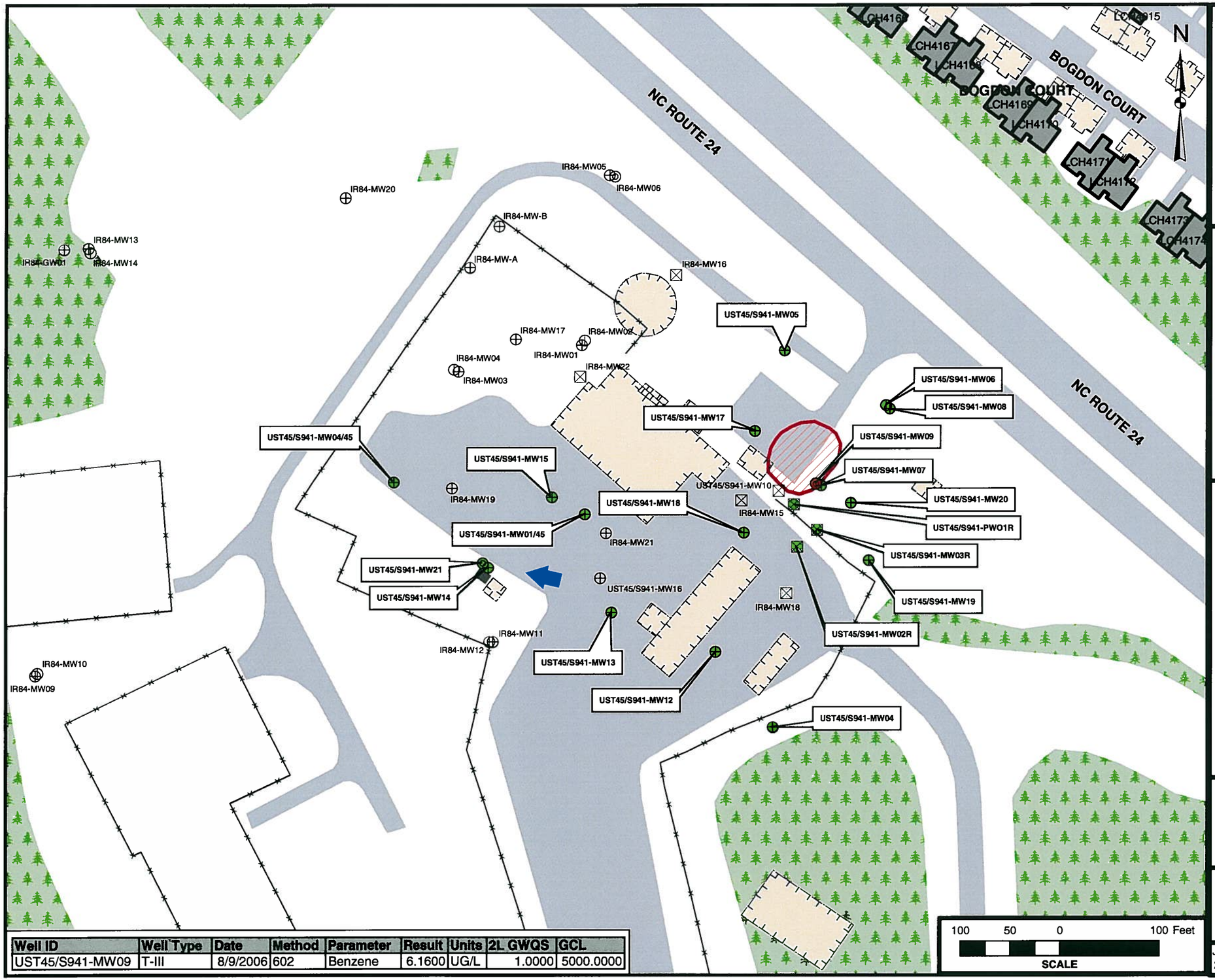
SITE 45/S941
FREE PRODUCT PLUME MAP
FOURTH QUARTER 2007

FIGURE **12.1E**

Job No.:	Date:	Scale:	Drawn By:	Checked By:
207-002	JAN 2008	AS SHOWN	SAC	MEM

MCB CAMP LEJEUNE
UST MANAGEMENT PROGRAM
CALENDAR YEAR 2007

NAVFAC
Naval Facilities Engineering Command



Well ID	Well Type	Date	Method	Parameter	Result	Units	2L GWQS	GCL
UST45/S941-MW09	T-III	8/9/2006	602	Benzene	6.1600	UG/L	1.0000	5000.0000

LEGEND

Monitoring Wells
- Type I
- Type II
- Type III
- Pumping Well
- Unknown Well Type
- Water Supply Wells
- Above Ground Storage Tank
- Underground Storage Tank
- Railroad Tracks

Walls and Fences
- FENCE
- GATE
- WALL

Analytical Results
- Free Product Detected
- 2L Non-Compliant
- 2L Compliant
- EPA 602 Plume
- Buildings and Structures
- Demolished Structures
- Oil/Water Separators
- Slabs
- Roads
- Driveways
- Parking Lots
- Surface Water Bodies
- Creeks and Streams
- Historical Groundwater Flow Direction

Vegetation Cover
- Forestland
- Scrubland
- Wetland

Airfield Pavement
- HELIPAD
- RAMP
- RUNWAY
- TAXIWAY
- SHLDR_OVERRUN

NOTES

1. 2L Standard refers to North Carolina Groundwater Quality Standard 15A NCAC 2L.0202.
2. GCL refers to Gross Contaminant Level as defined in Table 7 of "Groundwater Section Guidelines for the Investigation and Remediation of Soil and Ground Water", Volume II, dated January 2, 1998.
3. A 2L Standard of "0.00" implies a standard has not yet been established. According to NCAC T15:02L, any compound found above laboratory detection limits is considered noncompliant unless otherwise specified by the NCDENR.

CATLIN
Engineers and Scientists

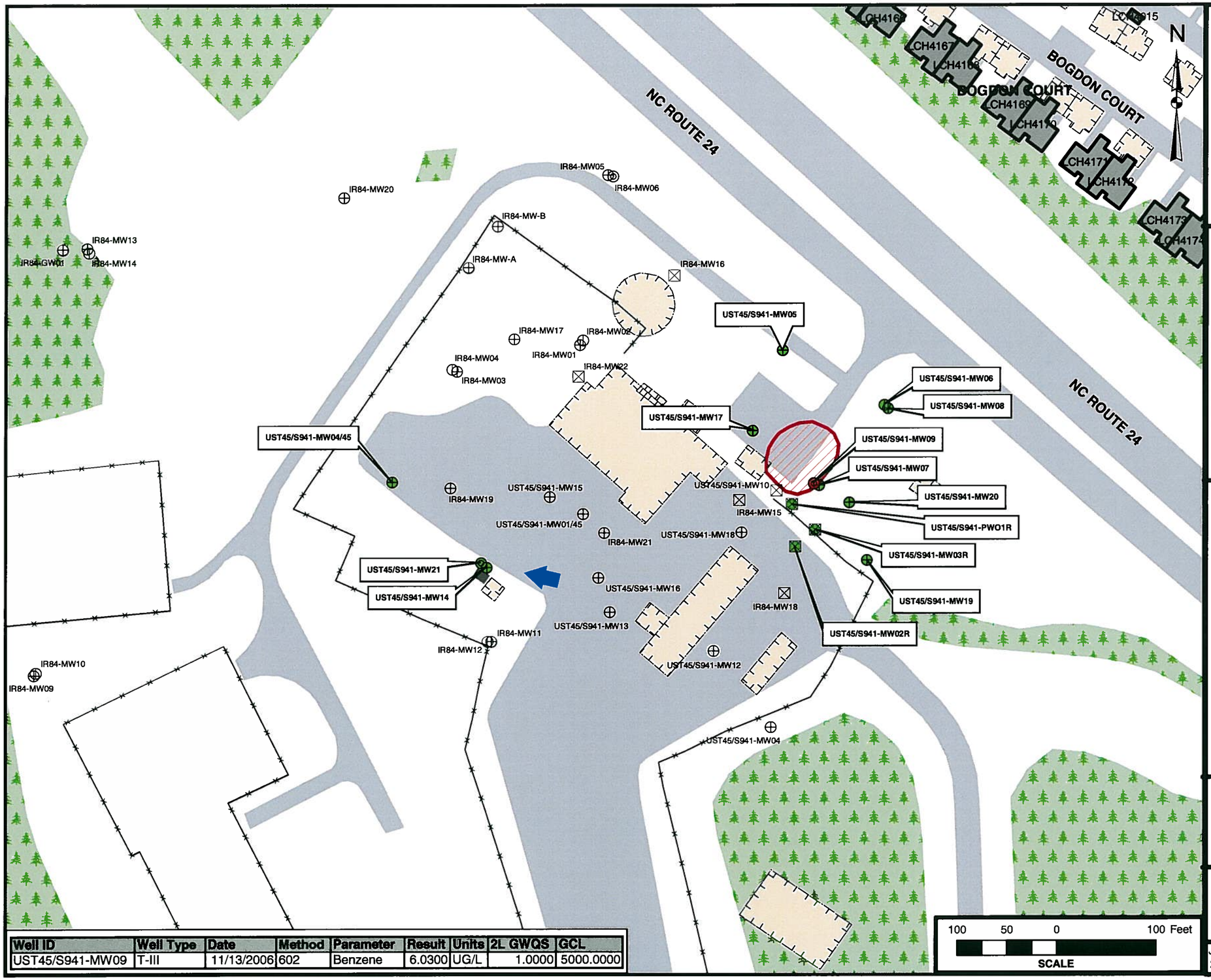
SITE 45/S941
EPA METHOD 602 COLORIMETRY AND PLUME IN EXCESS OF 2L
THIRD QUARTER 2006

FIGURE
12.2A

Job No.:	Date:	Scale:	Drawn By:	Checked By:
207-002	DEC 2007	AS SHOWN	SAC	MEM

MCB CAMP LEJEUNE
UST MANAGEMENT PROGRAM
CALENDAR YEAR 2007

NAVFAC
Naval Facilities Engineering Command



Well ID	Well Type	Date	Method	Parameter	Result	Units	2L GWQS	GCL
UST45/S941-MW09	T-III	11/13/2006	602	Benzene	6.0300	UG/L	1.0000	5000.0000

LEGEND

Monitoring Wells
- Type I
- Type II
- Type III
- Pumping Well
- Unknown Well Type
- Water Supply Wells
- Above Ground Storage Tank
- Underground Storage Tank
- Railroad Tracks

Walls and Fences
- FENCE
- GATE
- WALL

Analytical Results
- Free Product Detected
- 2L Non-Compliant
- 2L Compliant
- EPA 602 Plume
- Buildings and Structures
- Demolished Structures
- Oil/Water Separators
- Slabs
- Roads
- Driveways
- Parking Lots
- Surface Water Bodies
- Creeks and Streams
- Historical Groundwater Flow Direction

Vegetation Cover
- Forestland
- Scrubland
- Wetland

Airfield Pavement
- HELIPAD
- RAMP
- RUNWAY
- TAXIWAY
- SHLDR_OVERRUN

NOTES

1. 2L Standard refers to North Carolina Groundwater Quality Standard 15A NCAC 2L.0202.
2. GCL refers to Gross Contaminant Level as defined in Table 7 of "Groundwater Section Guidelines for the Investigation and Remediation of Soil and Ground Water", Volume II, dated January 2, 1998.
3. A 2L Standard of "0.00" implies a standard has not yet been established. According to NCAC T15:02L, any compound found above laboratory detection limits is considered noncompliant unless otherwise specified by the NCDENR.

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Engineers and Scientists

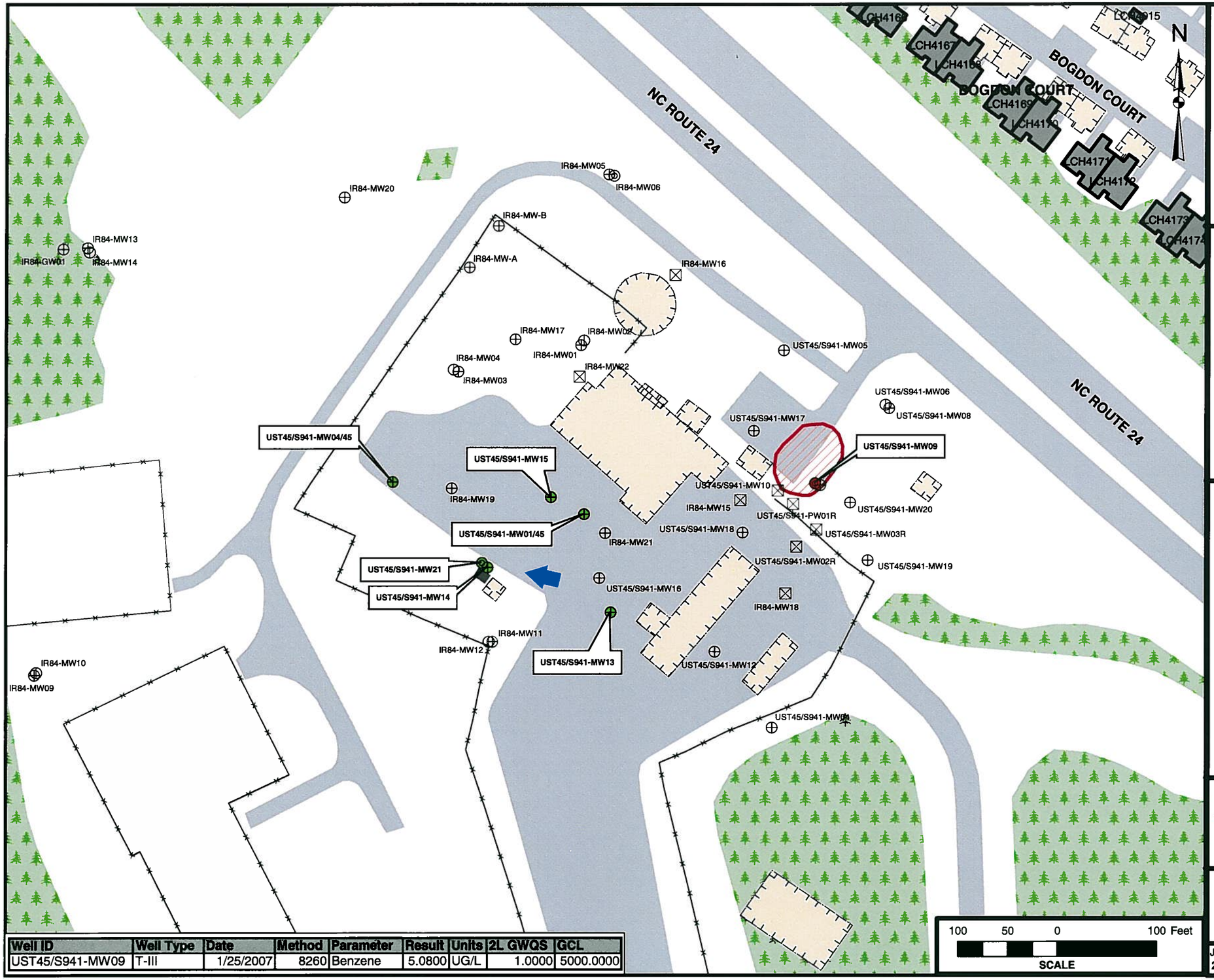
SITE 45/S941
EPA METHOD 602 COLORIMETRY AND PLUME IN EXCESS OF 2L
FOURTH QUARTER 2006

FIGURE
12.2B

Job No.:	Date:	Scale:	Drawn By:	Checked By:
207-002	DEC 2007	AS SHOWN	SAC	MEM

MCB CAMP LEJEUNE
UST MANAGEMENT PROGRAM
CALENDAR YEAR 2007

NAVFAC
Naval Facilities Engineering Command



LEGEND

Monitoring Wells
- Type I
- Type II
- Type III
- Pumping Well
- Unknown Well Type
- Water Supply Wells
- Above Ground Storage Tank
- Underground Storage Tank
- Railroad Tracks

Walls and Fences
- FENCE
- GATE
- WALL

Analytical Results
- Free Product Detected
- 2L Non-Compliant
- 2L Compliant
- EPA 8260 Plume
- Buildings and Structures
- Demolished Structures
- Oil/Water Separators
- Slabs
- Roads
- Driveways
- Parking Lots
- Surface Water Bodies
- Creeks and Streams
- Historical Groundwater Flow Direction

Vegetation Cover
- Forestland
- Scrubland
- Wetland

Airfield Pavement
- HELIPAD
- RAMP
- RUNWAY
- TAXIWAY
- SHLDR_OVERRUN

NOTES

1. 2L Standard refers to North Carolina Groundwater Quality Standard 15A NCAC 2L.0202.
2. GCL refers to Gross Contaminant Level as defined in Table 7 of "Groundwater Section Guidelines for the Investigation and Remediation of Soil and Ground Water", Volume II, dated January 2, 1998.
3. A 2L Standard of "0.00" implies a standard has not yet been established. According to NCAC T15:02L, any compound found above laboratory detection limits is considered noncompliant unless otherwise specified by the NCDENR.

Well ID	Well Type	Date	Method	Parameter	Result	Units	2L GWQS	GCL
UST45/S941-MW09	T-III	1/25/2007	8260	Benzene	5.0800	UG/L	1.0000	5000.0000

CATLIN
Engineers and Scientists

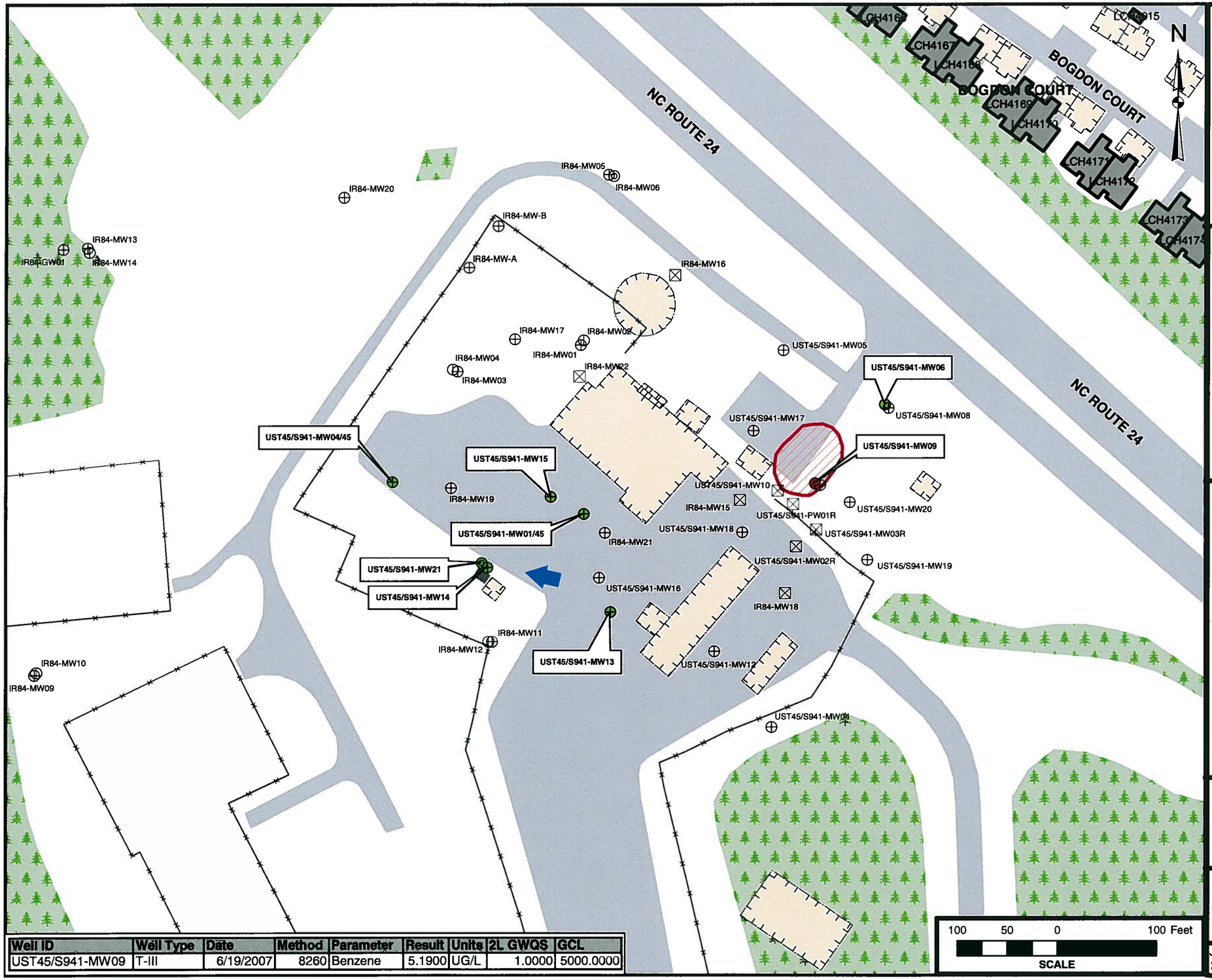
SITE 45/S941
EPA METHOD 8260 COLORIMETRY AND PLUME IN EXCESS OF 2L FIRST QUARTER 2007

FIGURE **12.2C**

Job No.:	Date:	Scale:	Drawn By:	Checked By:
207-002	DEC 2007	AS SHOWN	SAC	MEM

MCB CAMP LEJEUNE
UST MANAGEMENT PROGRAM
CALENDAR YEAR 2007

NAVFAC
Naval Facilities Engineering Command



LEGEND

Monitoring Wells
- Type I
- Type II
- Type III
- Pumping Well
- Unknown Well Type
- Water Supply Wells
- Above Ground Storage Tank
- Underground Storage Tank
- Railroad Tracks

Walls and Fences
- FENCE
- GATE
- WALL

Analytical Results
- Free Product Detected
- 2L Non-Compliant
- 2L Compliant
- EPA 8260 Plume
- Buildings and Structures
- Demolished Structures
- Oil/Water Separators
- Slabs
- Roads
- Driveways
- Parking Lots
- Surface Water Bodies
- Creeks and Streams
- Historical Groundwater Flow Direction

Vegetation Cover
- Forestland
- Scrubland
- Wetland

Airfield Pavement
- HELIPAD
- RAMP
- RUNWAY
- TAXIWAY
- SHLDR_OVERRUN

NOTES

1. 2L Standard refers to North Carolina Groundwater Quality Standard 15A NCAC 2L.0202.
2. GCL refers to Gross Contaminant Level as defined in Table 7 of "Groundwater Section Guidelines for the Investigation and Remediation of Soil and Ground Water", Volume II, dated January 2, 1998.
3. A 2L Standard of "0.00" implies a standard has not yet been established. According to NCAC T15:02L, any compound found above laboratory detection limits is considered noncompliant unless otherwise specified by the NCDENR.

Well ID	Well Type	Date	Method	Parameter	Result	Units	2L GWQS	GCL
UST45/S941-MW09	T-III	6/19/2007	8260	Benzene	5.1900	UG/L	1.0000	5000.0000

CATLIN
Engineers and Scientists

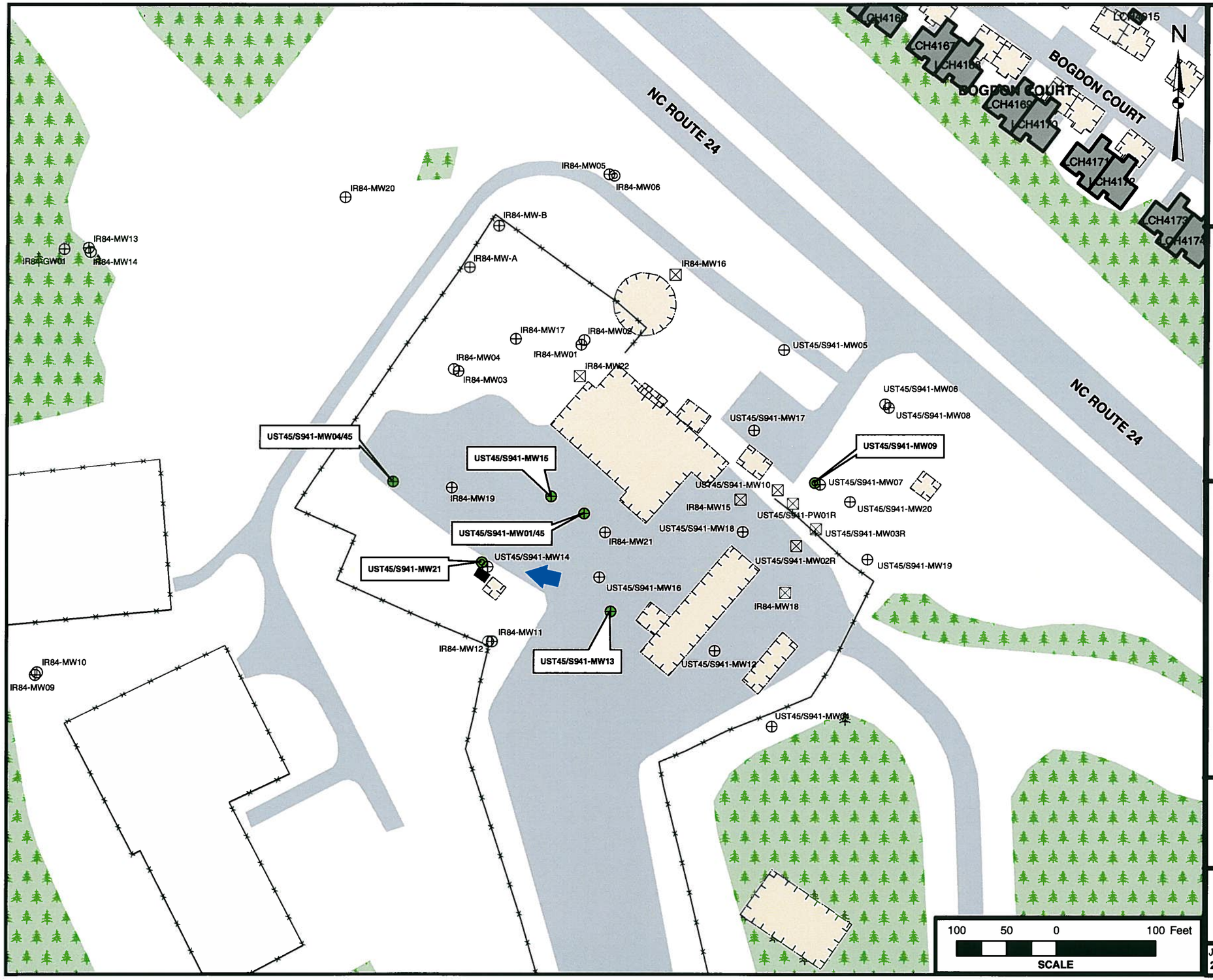
SITE 45/S941
EPA METHOD 8260 COLORIMETRY AND PLUME IN EXCESS OF 2L SECOND QUARTER 2007

FIGURE **12.2D**

Job No.:	Date:	Scale:	Drawn By:	Checked By:
207-002	DEC 2007	AS SHOWN	SAC	MEM

MCB CAMP LEJEUNE
UST MANAGEMENT PROGRAM
CALENDAR YEAR 2007

NAVFAC
Naval Facilities Engineering Command



LEGEND

Monitoring Wells
- Type I
- Type II
- Type III
- Pumping Well
- Unknown Well Type
- Water Supply Wells
- Above Ground Storage Tank
- Underground Storage Tank
- Railroad Tracks

Walls and Fences
- FENCE
- GATE
- WALL

Analytical Results
- Free Product Detected
- 2L Non-Compliant
- 2L Compliant
- EPA 8260 Plume
- Buildings and Structures
- Demolished Structures
- Oil/Water Separators
- Slabs
- Roads
- Driveways
- Parking Lots
- Surface Water Bodies
- Creeks and Streams
- Historical Groundwater Flow Direction

Vegetation Cover
- Forestland
- Scrubland
- Wetland

Airfield Pavement
- HELIPAD
- RAMP
- RUNWAY
- TAXIWAY
- SHLDR_OVERRUN

NOTES

1. No EPA Method 8260 compounds were detected above the 2L GWQS for any of the wells sampled during this monitoring event.

CATLIN
Engineers and Scientists

SITE 45/S941
EPA METHOD 8260 COLORIMETRY AND PLUME IN EXCESS OF 2L
FOURTH QUARTER 2007

FIGURE **12.2E**

Job No.:	Date:	Scale:	Drawn By:	Checked By:
207-002	JAN 2008	AS SHOWN	SAC	MEM

MCB CAMP LEJEUNE
UST MANAGEMENT PROGRAM
CALENDAR YEAR 2007

NAVFAC
Naval Facilities Engineering Command

N

NC ROUTE 24

BOGDON COURT

CH4166
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CH4174
CH4175

IR84-MW05
IR84-MW06
IR84-MW20
IR84-MW-B
IR84-MW-A
IR84-MW13
IR84-GW01
IR84-MW14
IR84-MW16
IR84-MW17
IR84-MW02
IR84-MW01
IR84-MW04
IR84-MW03
IR84-MW22
IR84-MW19
IR84-MW10
IR84-MW09
IR84-MW11
IR84-MW12
IR84-MW21
IR84-MW15
IR84-MW18

UST45/S941-MW05
UST45/S941-MW06
UST45/S941-MW08
UST45/S941-MW17
UST45/S941-MW09
UST45/S941-MW07
UST45/S941-MW20
UST45/S941-PWO1R
UST45/S941-MW03R
UST45/S941-MW19
UST45/S941-MW02R
UST45/S941-MW04
UST45/S941-MW04/45
UST45/S941-MW15
UST45/S941-MW10
UST45/S941-MW18
UST45/S941-MW01/45
UST45/S941-MW21
UST45/S941-MW14
UST45/S941-MW16
UST45/S941-MW13
UST45/S941-MW12

100 50 0 100 Feet
SCALE

LEGEND

Monitoring Wells
- Type I
- Type II
- Type III
- Pumping Well
- Unknown Well Type
- Water Supply Wells
- Above Ground Storage Tank
- Underground Storage Tank
- Railroad Tracks

Walls and Fences
- FENCE
- GATE
- WALL

Analytical Results
- Free Product Detected
- 2L Non-Compliant
- 2L Compliant
- EPA 625 Plume
- Buildings and Structures
- Demolished Structures
- Oil/Water Separators
- Slabs
- Roads
- Driveways
- Parking Lots
- Surface Water Bodies
- Creeks and Streams
- Historical Groundwater Flow Direction

Vegetation Cover
- Forestland
- Scrubland
- Wetland

Airfield Pavement
- HELIPAD
- RAMP
- RUNWAY
- TAXIWAY
- SHLDR_OVERRUN

NOTES

1. No EPA Method 625 compounds were detected above the 2L GWQS for any wells sampled during this monitoring event.

CATLIN
Engineers and Scientists

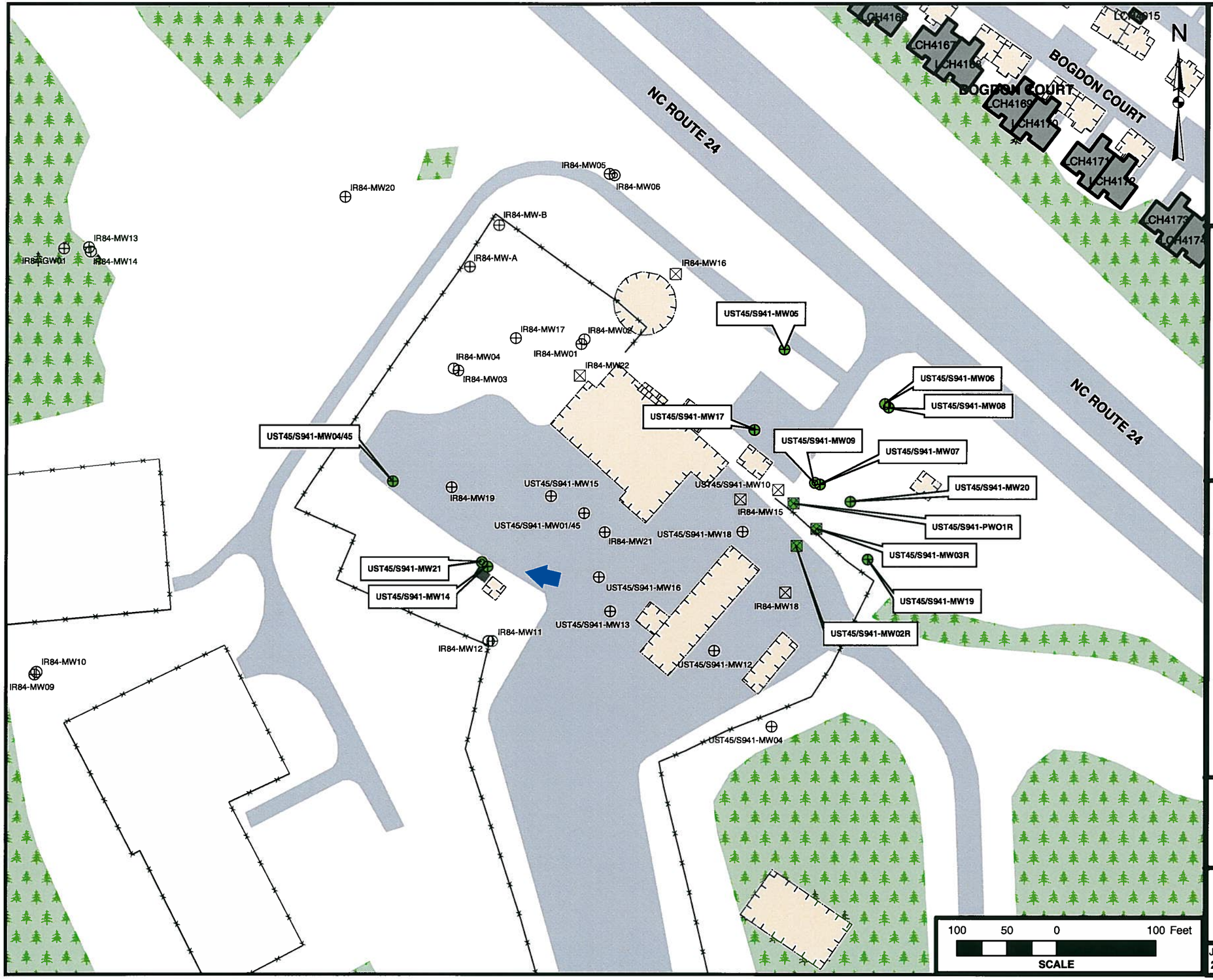
SITE 45/S941
EPA METHOD 625 COLORIMETRY AND PLUME IN EXCESS OF 2L
THIRD QUARTER 2006

FIGURE
12.3A

Job No.:	Date:	Scale:	Drawn By:	Checked By:
207-002	DEC 2007	AS SHOWN	SAC	MEM

MCB CAMP LEJEUNE
UST MANAGEMENT PROGRAM
CALENDAR YEAR 2007

NAVFAC
Naval Facilities Engineering Command



LEGEND

Monitoring Wells
- Type I
- Type II
- Type III
- Pumping Well
- Unknown Well Type
- Water Supply Wells
- Above Ground Storage Tank
- Underground Storage Tank
- Railroad Tracks

Walls and Fences
- FENCE
- GATE
- WALL

Analytical Results
- Free Product Detected
- 2L Non-Compliant
- 2L Compliant
- EPA 625 Plume
- Buildings and Structures
- Demolished Structures
- Oil/Water Separators
- Slabs
- Roads
- Driveways
- Parking Lots
- Surface Water Bodies
- Creeks and Streams
- Historical Groundwater Flow Direction

Vegetation Cover
- Forestland
- Scrubland
- Wetland

Airfield Pavement
- HELIPAD
- RAMP
- RUNWAY
- TAXIWAY
- SHLDR_OVERRUN

NOTES

1. No EPA Method 625 compounds were detected above the 2L GWQS for any wells sampled during this monitoring event.

CATLIN
Engineers and Scientists

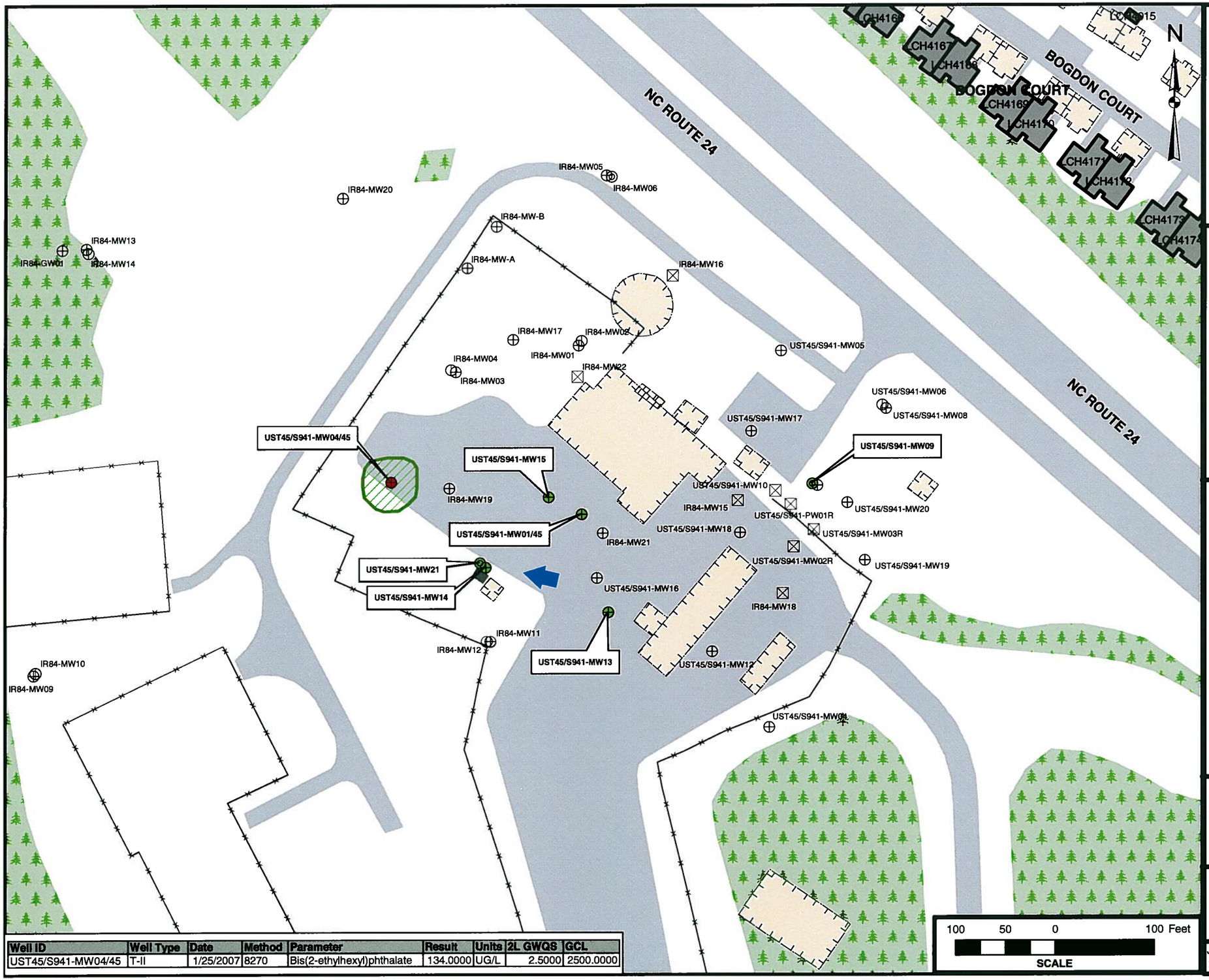
SITE 45/S941
EPA METHOD 625 COLORIMETRY AND PLUME IN EXCESS OF 2L FOURTH QUARTER 2006

FIGURE **12.3B**

Job No.:	Date:	Scale:	Drawn By:	Checked By:
207-002	DEC 2007	AS SHOWN	SAC	MEM

MCB CAMP LEJEUNE
UST MANAGEMENT PROGRAM
CALENDAR YEAR 2007

NAVFAC
Naval Facilities Engineering Command



Well ID	Well Type	Date	Method	Parameter	Result	Units	2L GWQS	GCL
UST45/S941-MW04/45	T-II	1/25/2007	8270	Bis(2-ethylhexyl)phthalate	134.0000	UG/L	2.5000	2500.0000

LEGEND

Monitoring Wells
- Type I
- Type II
- Type III
- Pumping Well
- Unknown Well Type
- Water Supply Wells
- Above Ground Storage Tank
- Underground Storage Tank
- Railroad Tracks

Walls and Fences
- FENCE
- GATE
- WALL

Analytical Results
- Free Product Detected
- 2L Non-Compliant
- 2L Compliant
- EPA 8270 Plume
- Buildings and Structures
- Demolished Structures
- Oil/Water Separators
- Slabs
- Roads
- Driveways
- Parking Lots
- Surface Water Bodies
- Creeks and Streams
- Historical Groundwater Flow Direction

Vegetation Cover
- Forestland
- Scrubland
- Wetland

Airfield Pavement
- HELIPAD
- RAMP
- RUNWAY
- TAXIWAY
- SHLDR_OVERRUN

NOTES

1. 2L Standard refers to North Carolina Groundwater Quality Standard 15A NCAC 2L.0202.
2. GCL refers to Gross Contaminant Level as defined in Table 7 of "Groundwater Section Guidelines for the Investigation and Remediation of Soil and Ground Water", Volume II, dated January 2, 1998.
3. A 2L Standard of "0.00" implies a standard has not yet been established. According to NCAC T15:02L, any compound found above laboratory detection limits is considered noncompliant unless otherwise specified by the NCDENR.

CATLIN
Engineers and Scientists

SITE 45/S941
EPA METHOD 8270 COLORIMETRY AND PLUME IN EXCESS OF 2L FIRST QUARTER 2007

FIGURE **12.3C**

Job No.:	Date:	Scale:	Drawn By:	Checked By:
207-002	DEC 2007	AS SHOWN	SAC	MEM

MCB CAMP LEJEUNE
UST MANAGEMENT PROGRAM
CALENDAR YEAR 2007

NAVFAC
Naval Facilities Engineering Command

N

NC ROUTE 24

BOGDON COURT

CH4168 CH4167 CH4166 CH4169 CH4170 CH4171 CH4172 CH4173 CH4174 CH4915

IR84-MW20
IR84-MW05
IR84-MW06
IR84-MW-B
IR84-MW-A
IR84-MW13
IR84-GW01
IR84-MW14
IR84-MW16
IR84-MW17
IR84-MW02
IR84-MW01
IR84-MW04
IR84-MW03
IR84-MW22
UST45/S941-MW05
UST45/S941-MW06
UST45/S941-MW08
UST45/S941-MW17
UST45/S941-MW04/45
UST45/S941-MW15
UST45/S941-MW09
IR84-MW19
UST45/S941-MW10
IR84-MW15
UST45/S941-PW01R
UST45/S941-MW20
UST45/S941-MW01/45
UST45/S941-MW18
IR84-MW21
UST45/S941-MW03R
UST45/S941-MW21
UST45/S941-MW14
UST45/S941-MW02R
UST45/S941-MW19
UST45/S941-MW16
IR84-MW18
IR84-MW11
IR84-MW12
UST45/S941-MW13
UST45/S941-MW12
IR84-MW10
IR84-MW09
UST45/S941-MW07

100 50 0 100 Feet
SCALE

LEGEND

Monitoring Wells
- Type I
- Type II
- Type III
- Pumping Well
- Unknown Well Type
- Water Supply Wells
- Above Ground Storage Tank
- Underground Storage Tank
- Railroad Tracks

Walls and Fences
- FENCE
- GATE
- WALL

Analytical Results
- Free Product Detected
- 2L Non-Compliant
- 2L Compliant
- EPA 8270 Plume
- Buildings and Structures
- Demolished Structures
- Oil/Water Separators
- Slabs
- Roads
- Driveways
- Parking Lots
- Surface Water Bodies
- Creeks and Streams
- Historical Groundwater Flow Direction

Vegetation Cover
- Forestland
- Scrubland
- Wetland

Airfield Pavement
- HELIPAD
- RAMP
- RUNWAY
- TAXIWAY
- SHLDR_OVERRUN

NOTES

1. 2L Standard refers to North Carolina Groundwater Quality Standard 15A NCAC 2L.0202.
2. GCL refers to Gross Contaminant Level as defined in Table 7 of "Groundwater Section Guidelines for the Investigation and Remediation of Soil and Ground Water", Volume II, dated January 2, 1998.
3. A 2L Standard of "0.00" implies a standard has not yet been established. According to NCAC T15:02L, any compound found above laboratory detection limits is considered noncompliant unless otherwise specified by the NCDENR.

Well ID	Well Type	Date	Method	Parameter	Result	Units	2L GWQS	GCL
UST45/S941-MW09	T-III	6/19/2007	8270	Bis(2-ethylhexyl)phthalate	8.2000	UG/L	2.5000	2500.0000

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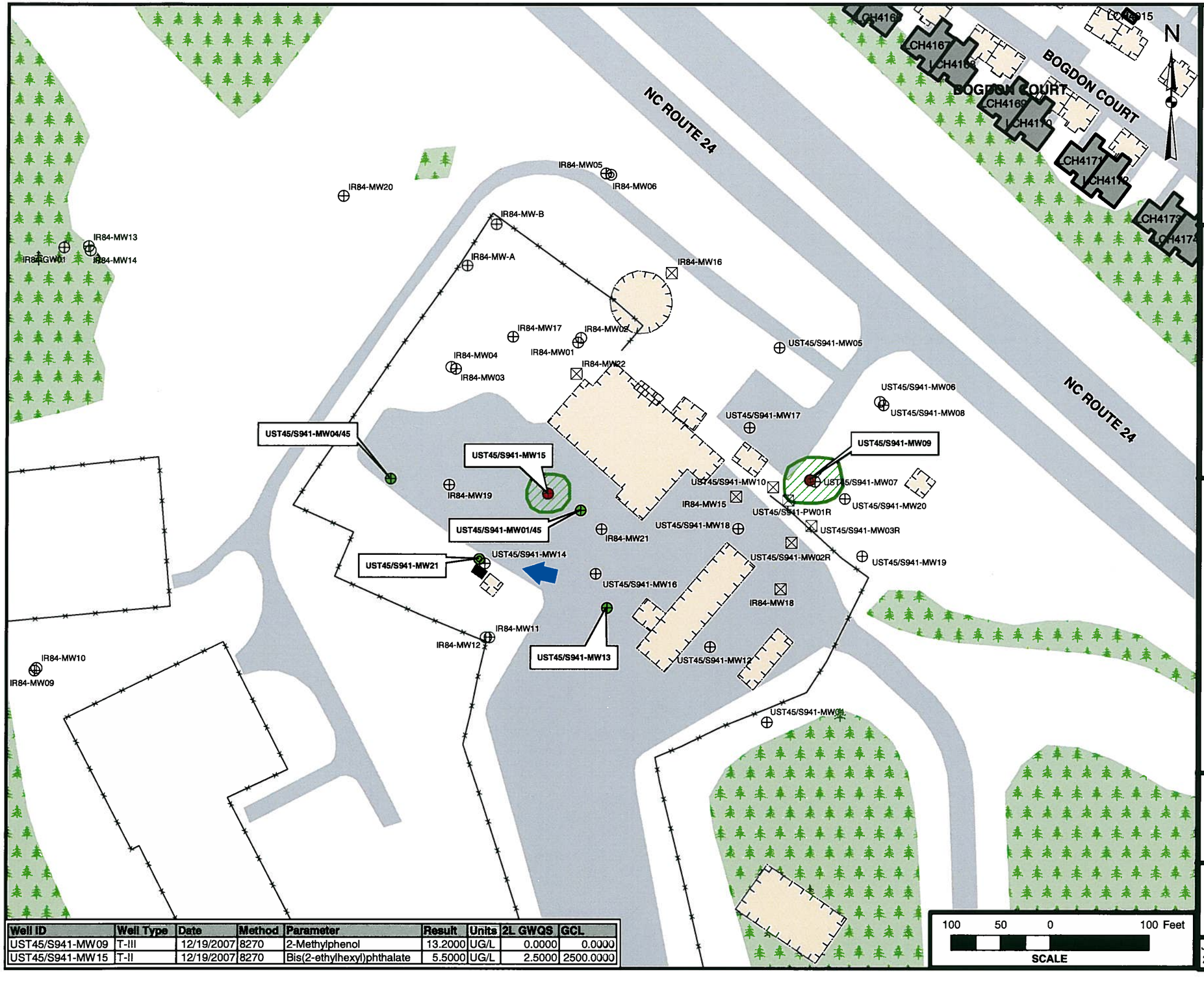
SITE 45/S941
EPA METHOD 8270 COLORIMETRY AND PLUME IN EXCESS OF 2L SECOND QUARTER 2007

FIGURE
12.3D

Job No.:	Date:	Scale:	Drawn By:	Checked By:
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UST MANAGEMENT PROGRAM
CALENDAR YEAR 2007

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LEGEND

Monitoring Wells
- Type I
- Type II
- Type III
- Pumping Well
- Unknown Well Type
- Water Supply Wells
- Above Ground Storage Tank
- Underground Storage Tank
- Railroad Tracks

Walls and Fences
- FENCE
- GATE
- WALL

Analytical Results
- Free Product Detected
- 2L Non-Compliant
- 2L Compliant
- EPA 8270 Plume
- Buildings and Structures
- Demolished Structures
- Oil/Water Separators
- Slabs
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- Creeks and Streams
- Historical Groundwater Flow Direction

Vegetation Cover
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- Scrubland
- Wetland

Airfield Pavement
- HELIPAD
- RAMP
- RUNWAY
- TAXIWAY
- SHLDR_OVERRUN

NOTES

1. 2L Standard refers to North Carolina Groundwater Quality Standard 15A NCAC 2L.0202.
2. GCL refers to Gross Contaminant Level as defined in "Guidelines for the Assessment and Corrective Action" North Carolina Underground Storage Tank Section, effective July 1, 2001.
3. A 2L Standard of "0.00" implies a standard has not yet been established. According to NCAC T15:02L, any compound found above laboratory detection limits is considered noncompliant unless otherwise specified by the NCDENR.

Well ID	Well Type	Date	Method	Parameter	Result	Units	2L GWQS	GCL
UST45/S941-MW09	T-III	12/19/2007	8270	2-Methylphenol	13.2000	UG/L	0.0000	0.0000
UST45/S941-MW15	T-II	12/19/2007	8270	Bis(2-ethylhexyl)phthalate	5.5000	UG/L	2.5000	2500.0000

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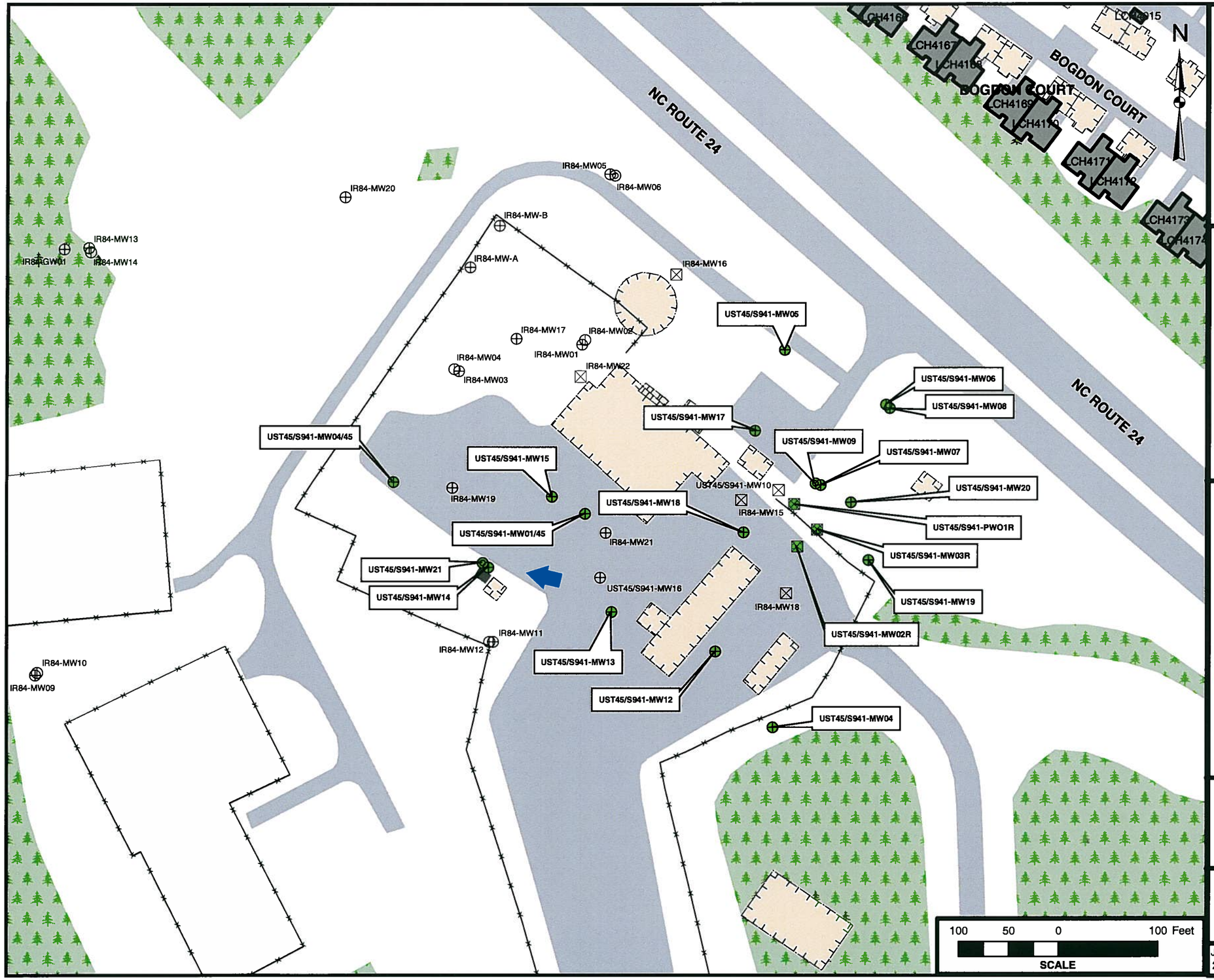
SITE 45/S941
EPA METHOD 8270 COLORIMETRY AND PLUME IN EXCESS OF 2L
FOURTH QUARTER 2007

FIGURE **12.3E**

Job No.:	Date:	Scale:	Drawn By:	Checked By:
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UST MANAGEMENT PROGRAM
CALENDAR YEAR 2007

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LEGEND

Monitoring Wells
- Type I
- Type II
- Type III
- Pumping Well
- Unknown Well Type
- Water Supply Wells
- Above Ground Storage Tank
- Underground Storage Tank
- Railroad Tracks

Walls and Fences
- FENCE
- GATE
- WALL

Analytical Results
- Free Product Detected
- 2L Non-Compliant
- 2L Compliant
- EPA 6020 Plume
- Buildings and Structures
- Demolished Structures
- Oil/Water Separators
- Slabs
- Roads
- Driveways
- Parking Lots
- Surface Water Bodies
- Creeks and Streams
- Historical Groundwater Flow Direction

Vegetation Cover
- Forestland
- Scrubland
- Wetland

Airfield Pavement
- HELIPAD
- RAMP
- RUNWAY
- TAXIWAY
- SHLDR_OVERRUN

NOTES

1. No EPA Method 6020 compounds were detected above the 2L GWQS for any wells sampled during this monitoring event.

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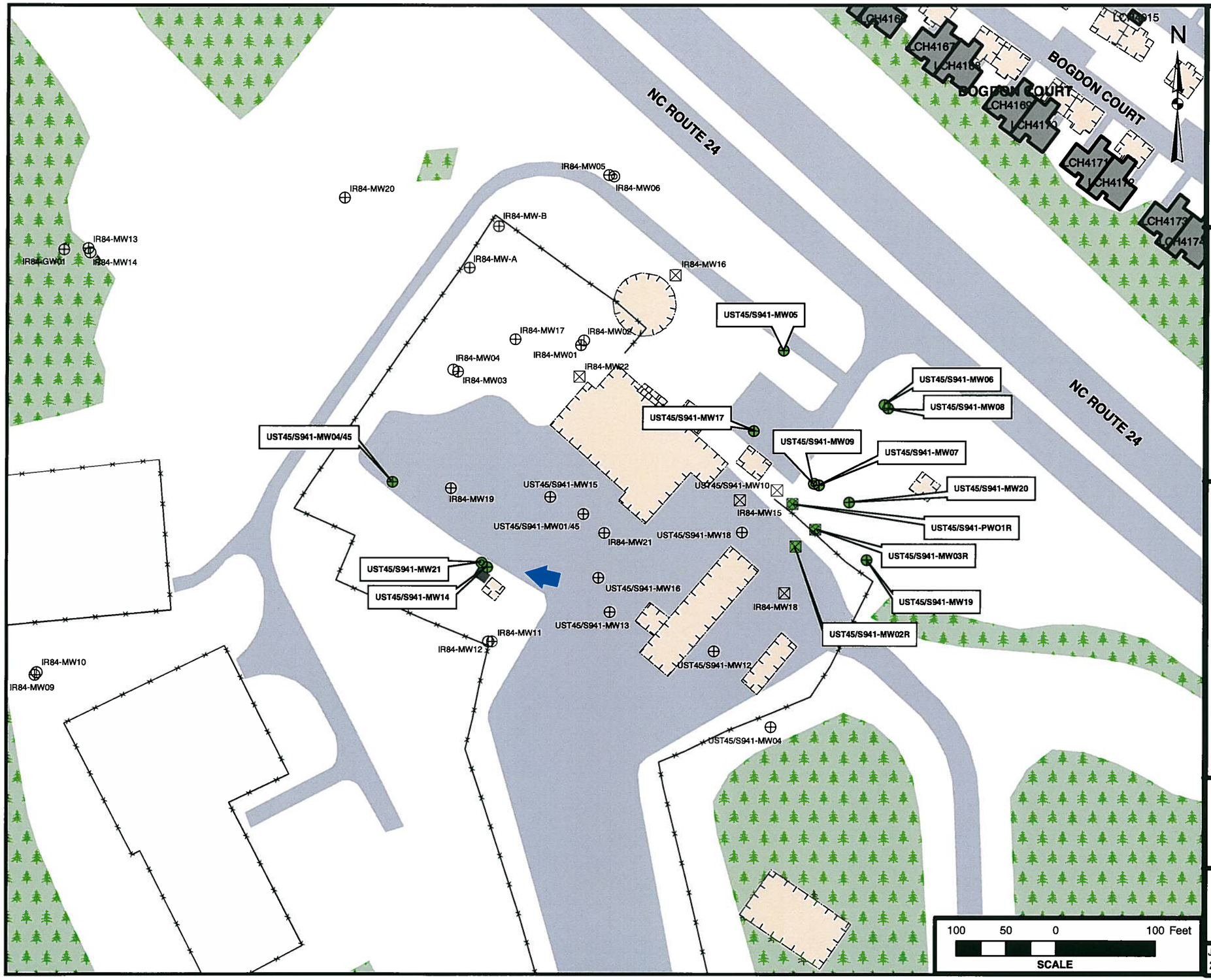
SITE 45/S941
EPA METHOD 6020 COLORIMETRY AND PLUME IN EXCESS OF 2L THIRD QUARTER 2006

FIGURE **12.4A**

Job No.:	Date:	Scale:	Drawn By:	Checked By:
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MCB CAMP LEJEUNE
UST MANAGEMENT PROGRAM
CALENDAR YEAR 2007

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LEGEND

Monitoring Wells
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- Railroad Tracks

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Analytical Results
- Free Product Detected
- 2L Non-Compliant
- 2L Compliant
- EPA 6020 Plume
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Vegetation Cover
- Forestland
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- Wetland

Airfield Pavement
- HELIPAD
- RAMP
- RUNWAY
- TAXIWAY
- SHLDR_OVERRUN

NOTES

1. No EPA Method 6020 compounds were detected above the 2L GWQS for any wells sampled during this monitoring event.

CATLIN
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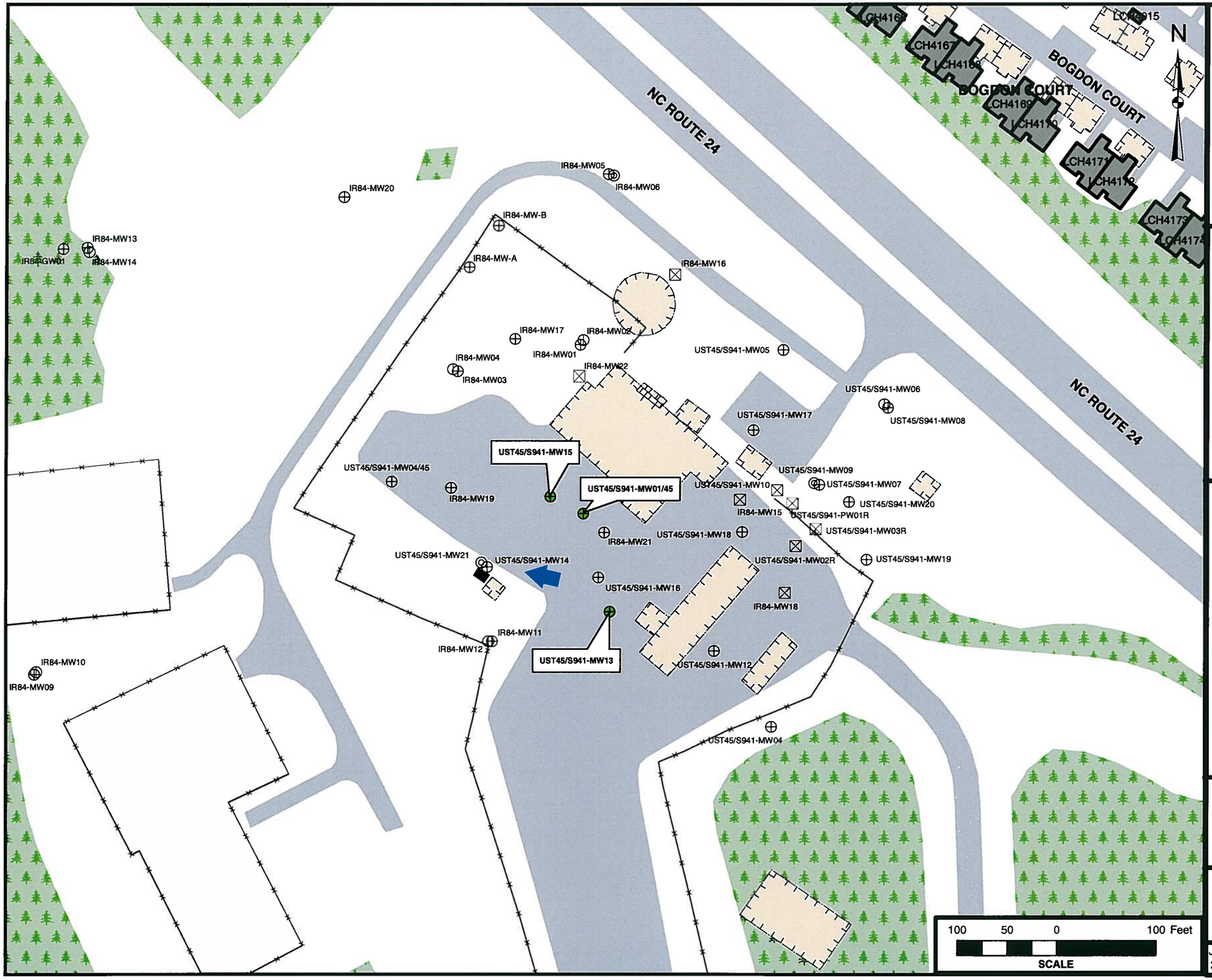
SITE 45/S941
EPA METHOD 6020 COLORIMETRY AND PLUME IN EXCESS OF 2L
FOURTH QUARTER 2006

FIGURE **12.4B**

Job No.:	Date:	Scale:	Drawn By:	Checked By:
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MCB CAMP LEJEUNE
UST MANAGEMENT PROGRAM
CALENDAR YEAR 2007

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LEGEND

Monitoring Wells
- Type I
- Type II
- Type III
- Pumping Well
- Unknown Well Type
- Water Supply Wells
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- Underground Storage Tank
- Railroad Tracks

Walls and Fences
- FENCE
- GATE
- WALL

Analytical Results
- Free Product Detected
- 2L Non-Compliant
- 2L Compliant
- EPA 6020 Plume
- Buildings and Structures
- Demolished Structures
- Oil/Water Separators
- Slabs
- Roads
- Driveways
- Parking Lots
- Surface Water Bodies
- Creeks and Streams
- Historical Groundwater Flow Direction

Vegetation Cover
- Forestland
- Scrubland
- Wetland

Airfield Pavement
- HELIPAD
- RAMP
- RUNWAY
- TAXIWAY
- SHLDR_OVERRUN

NOTES

1. No EPA Method 6020 compounds were detected above the 2L GWQS for any wells sampled during this monitoring event.

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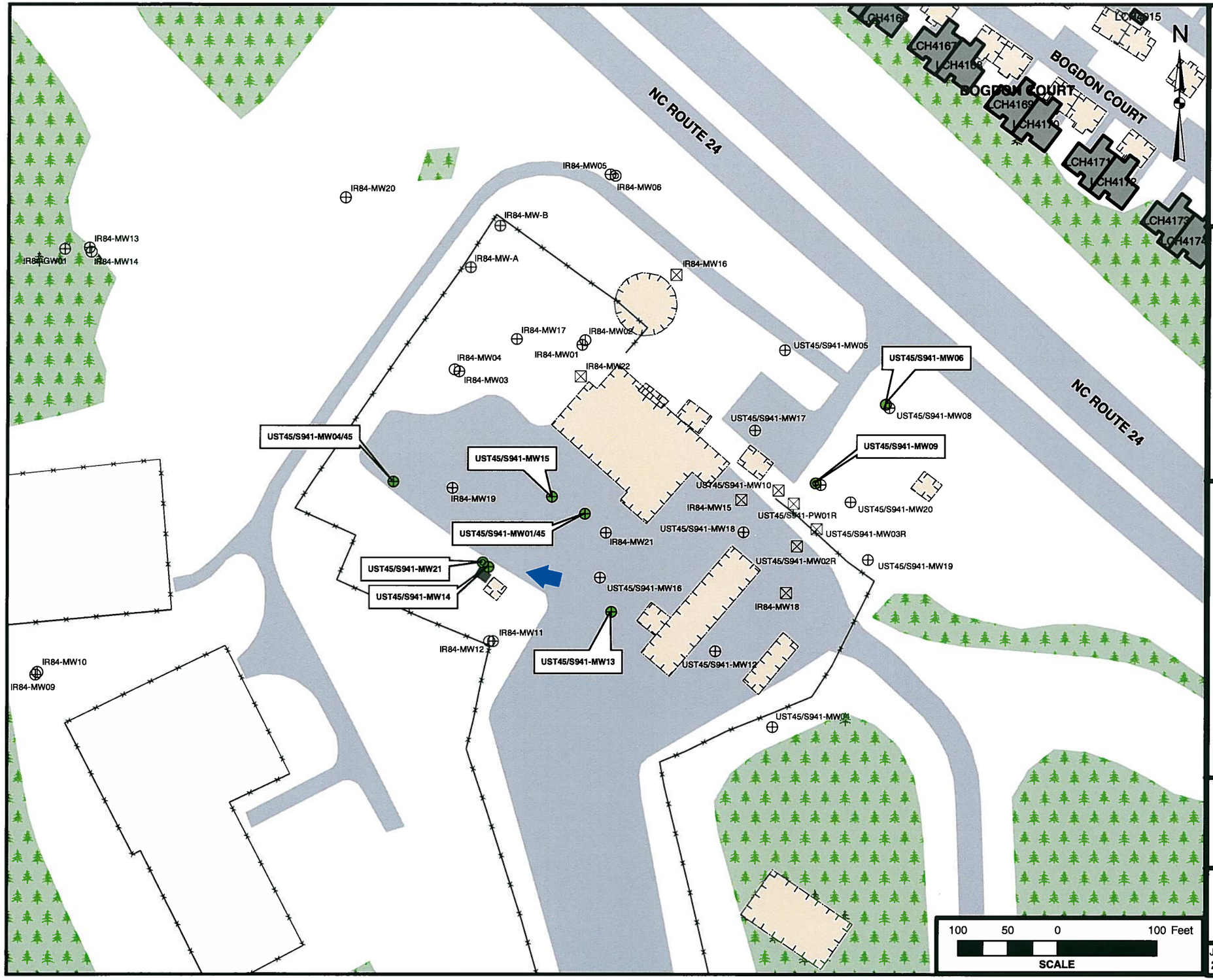
SITE 45/S941
EPA METHOD 6020 COLORIMETRY AND PLUME IN EXCESS OF 2L
FIRST QUARTER 2007

FIGURE **12.4C**

Job No.:	Date:	Scale:	Drawn By:	Checked By:
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MCB CAMP LEJEUNE
UST MANAGEMENT PROGRAM
CALENDAR YEAR 2007

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Naval Facilities Engineering Command



LEGEND

Monitoring Wells
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- Type III
- Pumping Well
- Unknown Well Type
- Water Supply Wells
- Above Ground Storage Tank
- Underground Storage Tank
- Railroad Tracks

Walls and Fences
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- GATE
- WALL

Analytical Results
- Free Product Detected
- 2L Non-Compliant
- 2L Compliant
- EPA 6020 Plume
- Buildings and Structures
- Demolished Structures
- Oil/Water Separators
- Slabs
- Roads
- Driveways
- Parking Lots
- Surface Water Bodies
- Creeks and Streams
- Historical Groundwater Flow Direction

Vegetation Cover
- Forestland
- Scrubland
- Wetland

Airfield Pavement
- HELIPAD
- RAMP
- RUNWAY
- TAXIWAY
- SHLDR_OVERRUN

NOTES

1. No EPA Method 6020 compounds were detected above the 2L GWQS for any wells sampled during this monitoring event.

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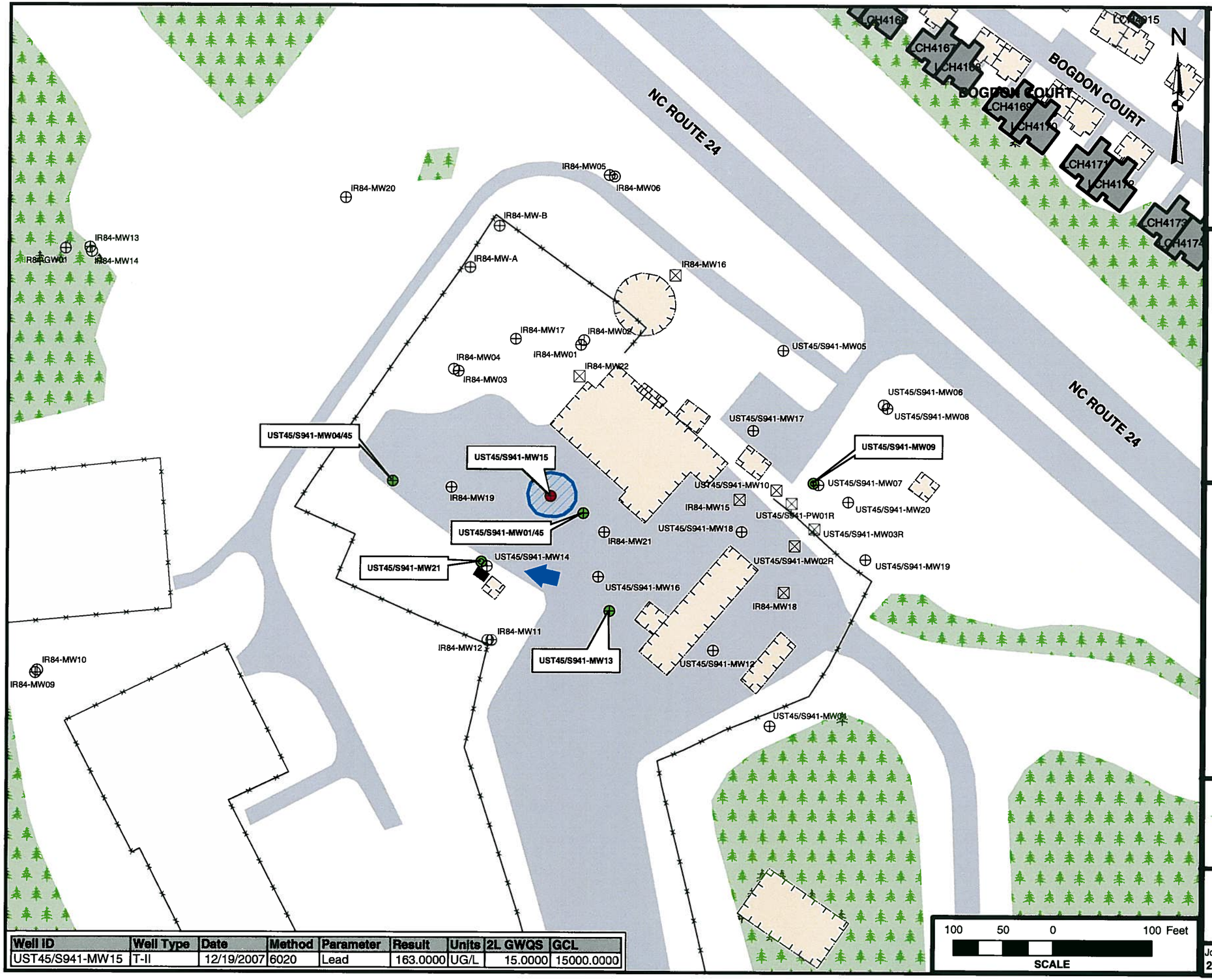
SITE 45/S941
EPA METHOD 6020 COLORIMETRY AND PLUME IN EXCESS OF 2L SECOND QUARTER 2007

FIGURE **12.4D**

Job No.:	Date:	Scale:	Drawn By:	Checked By:
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MCB CAMP LEJEUNE
UST MANAGEMENT PROGRAM
CALENDAR YEAR 2007

NAVFAC
Naval Facilities Engineering Command



LEGEND

Monitoring Wells
- Type I
- Type II
- Type III
- Pumping Well
- Unknown Well Type
- Water Supply Wells
- Above Ground Storage Tank
- Underground Storage Tank
- Railroad Tracks

Walls and Fences
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- WALL

Analytical Results
- Free Product Detected
- 2L Non-Compliant
- 2L Compliant
- EPA 6020 Plume
- Buildings and Structures
- Demolished Structures
- Oil/Water Separators
- Slabs
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Vegetation Cover
- Forestland
- Scrubland
- Wetland

Airfield Pavement
- HELIPAD
- RAMP
- RUNWAY
- TAXIWAY
- SHLDR_OVERRUN

NOTES

1. 2L Standard refers to North Carolina Groundwater Quality Standard 15A NCAC 2L.0202.
2. GCL refers to Gross Contaminant Level as defined in "Guidelines for the Assessment and Corrective Action" North Carolina Underground Storage Tank Section, effective July 1, 2001.
3. A 2L Standard of "0.00" implies a standard has not yet been established. According to NCAC T15:02L, any compound found above laboratory detection limits is considered noncompliant unless otherwise specified by the NCDENR.

Well ID	Well Type	Date	Method	Parameter	Result	Units	2L GWQS	GCL
UST45/S941-MW15	T-II	12/19/2007	6020	Lead	163.0000	UG/L	15.0000	15000.0000

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SITE 45/S941
EPA METHOD 6020 COLORIMETRY AND PLUME IN EXCESS OF 2L FOURTH QUARTER 2007

FIGURE **12.4E**

Job No.:	Date:	Scale:	Drawn By:	Checked By:
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SECTION 13.0

OF THE

ANNUAL MANAGEMENT REPORT
MCB CAMP LEJEUNE UST MANAGEMENT PROGRAM

MONITORING EVENT:

YEAR 2007
(JANUARY – DECEMBER 2007)

SITE-SPECIFIC MONITORING REPORT
FOR

SITE 645

NCDENR INCIDENT NO. 87556

13.0 EXECUTIVE SUMMARY
SITE 645

13.1 Site Information

13.1.1 Site Location: MCB Camp Lejeune
13.1.2 Incident Number(s): 87556
13.1.3 UTM Coordinates (WGS84) (Meters): 285302.37 Easting, 3844264.45 Northing
13.1.4 Risk Classification: Not Applicable
13.1.5 Land Use Classification: Not Applicable
13.1.6 Source Type(s): Gasoline

13.2 Monitoring Event Information

13.2.1 Sampling Performed By: Sovereign
13.2.2 Date(s) of This Monitoring Event: July 2006, March 2007, July 2007 and October 2007
13.2.3 Date(s) of Previous Monitoring Event: Gauging December 2005, gauging and sampling January 2006, and April 2006.
13.2.4 Reason(s) for This Monitoring Event: Track migration and attenuation of dissolved-phase plume.
13.2.5 Site Monitoring Status at Time of This Event: Groundwater sampling and gauging of select on-site monitoring wells currently being conducted on a quarterly basis.

13.3 Groundwater Hydraulics

13.3.1 Hydraulic Conductivity: The aquifer's hydraulic conductivity was calculated during the site assessment activities (CATLIN, 1995) and was based on slug tests performed on three Type II wells (645-5, 645-6, and 645-9), on grain size analysis from 645-5, 645-7, and 645-12, and on an eight-hour pump test conducted on well 645-12. The average hydraulic conductivity of the surficial aquifer as determined from the pumping test at the site was 254.7 feet per day. The average hydraulic gradient along the project site utilizing wells 645-5 and 645-2 was determined to be 0.019 feet per foot or 1.8 percent.
13.3.2 Effective Porosity: 0.25 (assumed value from CATLIN CAP dated September 25, 1996)
13.3.3 Hydraulic Gradient: 0.019 feet/feet
13.3.4 Average Linear Groundwater Flow Velocity: 19.4 feet/day
13.3.5 Groundwater Flow Direction: South-Southwest
13.3.6 Range of Measured Water Table Elevations: See Table13.1
13.3.7 Significant Changes from Previously Reported Data: None.

13.4 Free Product Plume

13.4.1 Free Product Present?: No
13.4.2 Free Product Thickness Measured: Not Applicable.
13.4.3 Plume Size and Location: Not Applicable.
13.4.4 Free Product Removed from Site This Period: Not Applicable.
13.4.5 Significant Changes from Previously Reported Data: None. See Figures 13.1A through 13.1D.

13.5 Dissolved-Phase Plume

13.5.1 Plume Concentrations: See Tables 13.2 through 13.4.

13.5.2 Plume Size and Location: See Figures 13.2A through 13.4B.

13.5.3 Significant Changes from Previously Reported Data: The current groundwater sample analytical results as compared to the previous analytical results are discussed as follows:

EPA Method 601

Analytical data from the January 2006 monitoring event, revealed the UST645-MW28 and UST645-MW31 groundwater samples contained Bromodichloromethane and Dibromochloromethane concentrations above the corresponding 2L GWQS. Bromodichloromethane concentrations were also detected above the 2L GWQS in the UST645-MW26 groundwater sample during the January 2006 monitoring event. Analytical data collected from the current monitoring event (July 2007 only) revealed no EPA Method 601 compounds in excess of the 2L GWQSs. See Figure 13.2.

EPA Method 602

The most comprehensive sampling event conducted during the previous monitoring period occurred in the first quarter of 2006 (January and February 2006). The most comprehensive sampling event conducted during the current monitoring period occurred in the third quarter of 2007 (July 2007). Therefore, a comparison of these two data sets is discussed below:

Shallow Aquifer (Less than 50 feet BLS)
Benzene and Total Xylenes were detected above the 2L GWQS in the January 2006 UST645-MW12 groundwater sample. During the July 2007 monitoring event no EPA Method 602 compounds were detected above the 2L GWQSs in any of the shallow on-site monitoring wells.

Deeper Aquifer (Greater than 50 feet BLS)
During the January 2006 monitoring event no EPA Method 602 compounds were detected above the 2L GWQSs in monitoring wells UST645-MW27 and UST645-MW28. Analytical results from the groundwater samples collected from each of these two wells during the July 2007 monitoring event revealed Benzene at concentrations above the 2L GWQS. Two additional deep Type III monitoring wells (UST645-MW33 and UST645-MW34) were installed in September 2007 and were sampled during the fourth quarter 2007 sampling event (October 2007). The analytical results from the October 2007 sampling event revealed Benzene concentrations in excess of the 2L GWQS in both of these newly installed wells. All of the monitoring wells exhibiting contaminant concentrations in excess of the 2L GWQS are screened from approximately 75 to 80 feet BLS. However, monitoring well UST645-MW31 which is screened from 97 to 102 feet BLS, did not contain any contaminants at concentrations in excess of the 2L GWQSs. See Figures 13.3A through 13.3D.

EPA Method 625

There are no significant changes in the extent of EPA Method 625 compounds at concentrations in excess of the 2L GWQSs. Naphthalene continues to persist in shallow monitoring well UST645-MW12. This compound was detected at a concentration of 101 ug/L in this well during the January 2006 monitoring event and at a concentration of 26.6 ug/L during the July 2006 monitoring event. Monitoring well UST645-MW12 was not sampled per EPA Method 625 during the October 2007 monitoring event. See Figures 13.4A and 13.4B.

13.6 Potential Receptors

13.6.1 Contaminated Water Supply Well(s)?: No
13.6.2 Potable Water Supply Well Within 1,000 Feet of Source Area?: No
13.6.3 Any Water Supply Well Within 250 Feet of Source Area?: No
13.6.4 Surface Water Body Within 500 Feet?: No
13.6.5 Past Evidence of Vapors?: No
13.6.6 Significant Changes from Previously Reported Data?: None.

13.7 Remediation

13.7.1 Status: Remediation system currently operating however, it was shutdown from June 2007 until November 2007.

13.7.2 Type: A remediation system, consisting of air sparge and soil vapor extraction (AS/SVE) was installed by J. A. Jones in 1998. The installed treatment system consists of fourteen vertical air-sparge wells (AS-1 through AS-14) and four horizontal vapor extraction wells (SVE-1 through SVE-4). Air-sparge wells AS-1 through AS-6 were installed to a depth of 80 feet BLS and air-sparge wells AS-7 through AS-14 were constructed to a depth of 50 feet BLS. Twenty-one soil vapor collection vent borings were installed below the horizontal soil vapor extraction line from 4.5 to 20 feet BLS. The vent borings were intended to allow vertical migration of sparge air through the zone of lower permeability to the soil vapor extraction lines. The soil and groundwater treatment system was started on September 10, 1998. An additional 19 soil vapor collection vent borings were installed at the site in 2000.

13.7.3 Progress: On-going
13.7.4 Construction Contractor: J. A. Jones
13.7.5 Operating Contractor: Sovereign

13.8 Observations and Comments

The remediation system appears to have reduced contaminant levels in the shallow and intermediate depth zones in the areas where air sparge wells are located. However, contamination in excess of the 2L GWQSs is present outside the area of influence of the remediation system and at depths of approximately 80 feet below land surface (BLS). CATLIN is in the process of installing additional deep Type III wells (80 feet and 100 feet BLS) in an attempt to determine the vertical and horizontal extent of contamination. Upon delineation of the groundwater contamination, additional remediation alternatives will be evaluated.

CATLIN recommends continued operation of the remediation system. Also, it is recommended that approximately 15 on-site monitoring wells be sampled on a semi-annual basis per EPA Methods 601and 602. See the figure in Appendix A for the proposed monitoring schedule.

TABLE 13.1
SITE 645
FIELD MEASUREMENTS - JULY 2005 TO DECEMBER 2007

Well No.	Type	TOC	Date	DTW	Product Thickness	Corrected GWT Elevation
UST645-MW01	T-II	28.55	9/13/2005	11.67	0.00	16.88
UST645-MW01	T-II	28.55	12/16/2005	13.00	0.00	15.55
UST645-MW01	T-II	28.55	1/17/2006	9.73	0.00	18.82
UST645-MW01	T-II	28.55	2/27/2006	9.81	0.00	18.74
UST645-MW01	T-II	28.55	3/8/2006	11.24	0.00	17.31
UST645-MW01	T-II	28.55	4/18/2006		0.00	
UST645-MW01	T-II	28.55	5/2/2006	11.46	0.00	17.09
UST645-MW01	T-II	28.55	6/7/2006	13.55	0.00	15.00
UST645-MW01	T-II	28.55	7/24/2006	12.20	0.00	16.35
UST645-MW01	T-II	28.55	1/8/2007	7.17	0.00	21.38
UST645-MW01	T-II	28.55	3/22/2007	7.83	0.00	20.72
UST645-MW01	T-II	28.55	7/17/2007	14.07	0.00	14.48
UST645-MW02	T-II	29.52	9/13/2005	11.46	0.00	18.06
UST645-MW02	T-II	29.52	12/16/2005	13.99	0.00	15.53
UST645-MW02	T-II	29.52	1/17/2006	10.75	0.00	18.77
UST645-MW02	T-II	29.52	2/27/2006	10.83	0.00	18.69
UST645-MW02	T-II	29.52	3/8/2006	12.18	0.00	17.34
UST645-MW02	T-II	29.52	4/18/2006		0.00	
UST645-MW02	T-II	29.52	5/2/2006	12.40	0.00	17.12
UST645-MW02	T-II	29.52	6/7/2006	14.65	0.00	14.87
UST645-MW02	T-II	29.52	7/24/2006	13.17	0.00	16.35
UST645-MW02	T-II	29.52	1/8/2007	8.17	0.00	21.35
UST645-MW02	T-II	29.52	3/22/2007	8.86	0.00	20.66
UST645-MW02	T-II	29.52	7/17/2007	15.04	0.00	14.48
UST645-MW03	T-II	29.78	9/13/2005	11.78	0.00	18.00
UST645-MW03	T-II	29.78	12/16/2005	14.01	0.00	15.77

Notes:
1. T-II = Type II monitoring well
   T-III = Type III monitoring well
   RW = Recovery well
2. TOC = Top of casing elevation in feet relative to Mean Sea Level.
3. DTW = Depth to water (in feet) from top of well casing.
4. Product thickness is measured in feet.
5. GWT = Groundwater Table
6. A zero ("0.00") in the product thickness column indicates no measureable thickness.
7. GWT Elevation corrected for measurable free product, if present.

Well No.	Type	TOC	Date	DTW	Product Thickness	Corrected GWT Elevation
UST645-MW03	T-II	29.78	1/17/2006	10.63	0.00	19.15
UST645-MW03	T-II	29.78	2/27/2006	10.78	0.00	19.00
UST645-MW03	T-II	29.78	3/8/2006	12.01	0.00	17.77
UST645-MW03	T-II	29.78	4/18/2006		0.00	
UST645-MW03	T-II	29.78	5/2/2006	12.66	0.00	17.12
UST645-MW03	T-II	29.78	6/7/2006	14.92	0.00	14.86
UST645-MW03	T-II	29.78	7/24/2006	13.04	0.00	16.74
UST645-MW03	T-II	29.78	3/22/2007	8.75	0.00	21.03
UST645-MW03	T-II	29.78	7/17/2007	15.30	0.00	14.48
UST645-MW04	T-II	25.32	9/13/2005		0.00	
UST645-MW04	T-II	25.32	12/16/2005	3.42	0.00	21.90
UST645-MW04	T-II	25.32	1/17/2006	2.93	0.00	22.39
UST645-MW04	T-II	25.32	2/27/2006	2.87	0.00	22.45
UST645-MW04	T-II	25.32	3/8/2006	7.89	0.00	17.43
UST645-MW04	T-II	25.32	4/18/2006	3.62	0.00	21.70
UST645-MW04	T-II	25.32	5/2/2006	6.77	0.00	18.55
UST645-MW04	T-II	25.32	6/7/2006	3.11	0.00	22.21
UST645-MW04	T-II	25.32	7/24/2006	3.08	0.00	22.24
UST645-MW04	T-II	25.32	3/22/2007	3.58	0.00	21.74
UST645-MW04	T-II	25.32	7/17/2007	11.96	0.00	13.36
UST645-MW05	T-II	30.06	9/13/2005	14.25	0.00	15.81
UST645-MW05	T-II	30.06	12/16/2005	13.02	0.00	17.04
UST645-MW05	T-II	30.06	1/17/2006	10.18	0.00	19.88
UST645-MW05	T-II	30.06	2/27/2006	10.62	0.00	19.44
UST645-MW05	T-II	30.06	3/8/2006	11.30	0.00	18.76
UST645-MW05	T-II	30.06	4/18/2006	14.81	0.00	15.25
UST645-MW05	T-II	30.06	5/2/2006	13.35	0.00	16.71
UST645-MW05	T-II	30.06	6/7/2006	15.01	0.00	15.05
UST645-MW05	T-II	30.06	7/24/2006	12.30	0.00	17.76
UST645-MW05	T-II	30.06	3/22/2007	8.45	0.00	21.61
UST645-MW05	T-II	30.06	7/17/2007	15.35	0.00	14.71

Notes:
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5. GWT = Groundwater Table
6. A zero ("0.00") in the product thickness column indicates no measureable thickness.
7. GWT Elevation corrected for measurable free product, if present.

Well No.	Type	TOC	Date	DTW	Product Thickness	Corrected GWT Elevation
UST645-MW06	T-II	31.26	9/13/2005	14.11	0.00	17.15
UST645-MW06	T-II	31.26	12/16/2005	13.90	0.00	17.36
UST645-MW06	T-II	31.26	1/17/2006	10.79	0.00	20.47
UST645-MW06	T-II	31.26	2/27/2006	11.13	0.00	20.13
UST645-MW06	T-II	31.26	3/8/2006	11.62	0.00	19.64
UST645-MW06	T-II	31.26	4/18/2006	16.03	0.00	15.23
UST645-MW06	T-II	31.26	5/2/2006	13.68	0.00	17.58
UST645-MW06	T-II	31.26	6/7/2006	16.37	0.00	14.89
UST645-MW06	T-II	31.26	7/24/2006	13.05	0.00	18.21
UST645-MW06	T-II	31.26	3/22/2007	9.00	0.00	22.26
UST645-MW06	T-II	31.26	7/17/2007	16.25	0.00	15.01
UST645-MW07	T-II	27.81	9/13/2005	9.69	0.00	18.12
UST645-MW07	T-II	27.81	12/16/2005	17.11	0.00	10.70
UST645-MW07	T-II	27.81	1/17/2006	14.55	0.00	13.26
UST645-MW07	T-II	27.81	2/27/2006	14.91	0.00	12.90
UST645-MW07	T-II	27.81	3/8/2006	16.26	0.00	11.55
UST645-MW07	T-II	27.81	4/18/2006	17.25	0.00	10.56
UST645-MW07	T-II	27.81	5/2/2006	15.07	0.00	12.74
UST645-MW07	T-II	27.81	6/7/2006	16.51	0.00	11.30
UST645-MW07	T-II	27.81	7/24/2006	15.87	0.00	11.94
UST645-MW07	T-II	27.81	3/22/2007	13.76	0.00	14.05
UST645-MW07	T-II	27.81	7/17/2007	15.38	0.00	12.43
UST645-MW08	T-II	29.59	9/13/2005	13.09	0.00	16.50
UST645-MW08	T-II	29.59	12/16/2005	12.57	0.00	17.02
UST645-MW08	T-II	29.59	1/17/2006	9.39	0.00	20.20
UST645-MW08	T-II	29.59	2/27/2006	9.63	0.00	19.96
UST645-MW08	T-II	29.59	3/8/2006	11.48	0.00	18.11
UST645-MW08	T-II	29.59	4/18/2006	14.73	0.00	14.86
UST645-MW08	T-II	29.59	5/2/2006	13.13	0.00	16.46
UST645-MW08	T-II	29.59	6/7/2006	14.16	0.00	15.43
UST645-MW08	T-II	29.59	7/24/2006	11.97	0.00	17.62

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4. Product thickness is measured in feet.
5. GWT = Groundwater Table
6. A zero ("0.00") in the product thickness column indicates no measureable thickness.
7. GWT Elevation corrected for measurable free product, if present.

Well No.	Type	TOC	Date	DTW	Product Thickness	Corrected GWT Elevation
UST645-MW08	T-II	29.59	3/22/2007	8.43	0.00	21.16
UST645-MW08	T-II	29.59	7/17/2007	15.28	0.00	14.31
UST645-MW09	T-III	29.78	9/13/2005	9.65	0.00	20.13
UST645-MW09	T-III	29.78	12/16/2005	18.37	0.00	11.41
UST645-MW09	T-III	29.78	1/17/2006	16.10	0.00	13.68
UST645-MW09	T-III	29.78	2/27/2006	16.41	0.00	13.37
UST645-MW09	T-III	29.78	3/8/2006	17.92	0.00	11.86
UST645-MW09	T-III	29.78	4/18/2006		0.00	
UST645-MW09	T-III	29.78	5/2/2006	17.61	0.00	12.17
UST645-MW09	T-III	29.78	6/7/2006	18.35	0.00	11.43
UST645-MW09	T-III	29.78	7/24/2006	17.45	0.00	12.33
UST645-MW09	T-III	29.78	3/22/2007	14.39	0.00	15.39
UST645-MW09	T-III	29.78	7/17/2007	17.07	0.00	12.71
UST645-MW10	T-III	27.86	9/13/2005	9.73	0.00	18.13
UST645-MW10	T-III	27.86	12/16/2005	17.00	0.00	10.86
UST645-MW10	T-III	27.86	1/17/2006	14.45	0.00	13.41
UST645-MW10	T-III	27.86	2/27/2006	14.87	0.00	12.99
UST645-MW10	T-III	27.86	3/8/2006	16.14	0.00	11.72
UST645-MW10	T-III	27.86	4/18/2006	17.10	0.00	10.76
UST645-MW10	T-III	27.86	5/2/2006	15.48	0.00	12.38
UST645-MW10	T-III	27.86	6/7/2006	16.64	0.00	11.22
UST645-MW10	T-III	27.86	7/24/2006	15.65	0.00	12.21
UST645-MW10	T-III	27.86	3/22/2007	12.95	0.00	14.91
UST645-MW10	T-III	27.86	7/17/2007	15.10	0.00	12.76
UST645-MW11	T-III	29.72	9/13/2005	9.96	0.00	19.76
UST645-MW11	T-III	29.72	12/16/2005	18.27	0.00	11.45
UST645-MW11	T-III	29.72	1/17/2006	15.85	0.00	13.87
UST645-MW11	T-III	29.72	2/27/2006	16.13	0.00	13.59
UST645-MW11	T-III	29.72	3/8/2006	17.35	0.00	12.37
UST645-MW11	T-III	29.72	4/18/2006	18.40	0.00	11.32
UST645-MW11	T-III	29.72	5/2/2006	17.42	0.00	12.30

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4. Product thickness is measured in feet.
5. GWT = Groundwater Table
6. A zero ("0.00") in the product thickness column indicates no measureable thickness.
7. GWT Elevation corrected for measurable free product, if present.

Well No.	Type	TOC	Date	DTW	Product Thickness	Corrected GWT Elevation
UST645-MW11	T-III	29.72	6/7/2006	18.13	0.00	11.59
UST645-MW11	T-III	29.72	7/24/2006	16.97	0.00	12.75
UST645-MW11	T-III	29.72	3/22/2007	14.20	0.00	15.52
UST645-MW11	T-III	29.72	7/17/2007	16.81	0.00	12.91
UST645-MW12	RW	29.39	9/13/2005	10.07	0.00	19.32
UST645-MW12	RW	29.39	12/16/2005	16.70	0.00	12.69
UST645-MW12	RW	29.39	1/17/2006	13.98	0.00	15.41
UST645-MW12	RW	29.39	2/27/2006	14.02	0.00	15.37
UST645-MW12	RW	29.39	3/8/2006	16.21	0.00	13.18
UST645-MW12	RW	29.39	4/18/2006	18.06	0.00	11.33
UST645-MW12	RW	29.39	5/2/2006	16.05	0.00	13.34
UST645-MW12	RW	29.39	6/7/2006	17.50	0.00	11.89
UST645-MW12	RW	29.39	7/24/2006	16.23	0.00	13.16
UST645-MW12	RW	29.39	1/8/2007	11.48	0.00	17.91
UST645-MW12	RW	29.39	3/22/2007	11.86	0.00	17.53
UST645-MW12	RW	29.39	7/17/2007	16.21	0.00	13.18
UST645-MW13	T-III	29.81	9/13/2005	10.07	0.00	19.74
UST645-MW13	T-III	29.81	12/16/2005	18.08	0.00	11.73
UST645-MW13	T-III	29.81	1/17/2006	15.52	0.00	14.29
UST645-MW13	T-III	29.81	2/27/2006	15.68	0.00	14.13
UST645-MW13	T-III	29.81	3/8/2006	17.39	0.00	12.42
UST645-MW13	T-III	29.81	4/18/2006	18.35	0.00	11.46
UST645-MW13	T-III	29.81	5/2/2006	17.24	0.00	12.57
UST645-MW13	T-III	29.81	6/7/2006	17.93	0.00	11.88
UST645-MW13	T-III	29.81	7/24/2006	16.88	0.00	12.93
UST645-MW13	T-III	29.81	1/8/2007	12.80	0.00	17.01
UST645-MW13	T-III	29.81	3/22/2007	13.65	0.00	16.16
UST645-MW13	T-III	29.81	7/17/2007	16.76	0.00	13.05
UST645-MW14	T-II	28.10	9/13/2005	9.66	0.00	18.44
UST645-MW14	T-II	28.10	12/16/2005	17.27	0.00	10.83
UST645-MW14	T-II	28.10	1/17/2006	14.70	0.00	13.40

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4. Product thickness is measured in feet.
5. GWT = Groundwater Table
6. A zero ("0.00") in the product thickness column indicates no measureable thickness.
7. GWT Elevation corrected for measurable free product, if present.

Well No.	Type	TOC	Date	DTW	Product Thickness	Corrected GWT Elevation
UST645-MW14	T-II	28.10	2/27/2006	15.08	0.00	13.02
UST645-MW14	T-II	28.10	3/8/2006	16.38	0.00	11.72
UST645-MW14	T-II	28.10	4/18/2006	17.35	0.00	10.75
UST645-MW14	T-II	28.10	5/2/2006	15.83	0.00	12.27
UST645-MW14	T-II	28.10	6/7/2006	16.86	0.00	11.24
UST645-MW14	T-II	28.10	7/24/2006	15.94	0.00	12.16
UST645-MW14	T-II	28.10	3/22/2007	13.17	0.00	14.93
UST645-MW14	T-II	28.10	7/17/2007	15.33	0.00	12.77
UST645-MW15	T-III	27.04	9/13/2005	9.45	0.00	17.59
UST645-MW15	T-III	27.04	12/16/2005	16.40	0.00	10.64
UST645-MW15	T-III	27.04	1/17/2006	13.67	0.00	13.37
UST645-MW15	T-III	27.04	2/27/2006	14.69	0.00	12.35
UST645-MW15	T-III	27.04	3/8/2006	15.13	0.00	11.91
UST645-MW15	T-III	27.04	4/18/2006		0.00	
UST645-MW15	T-III	27.04	5/2/2006	15.59	0.00	11.45
UST645-MW15	T-III	27.04	6/7/2006	16.13	0.00	10.91
UST645-MW15	T-III	27.04	7/24/2006	14.59	0.00	12.45
UST645-MW15	T-III	27.04	3/22/2007	12.75	0.00	14.29
UST645-MW15	T-III	27.04	7/17/2007	14.41	0.00	12.63
UST645-MW16	T-III	28.26	9/13/2005	9.66	0.00	18.60
UST645-MW16	T-III	28.26	12/16/2005	17.70	0.00	10.56
UST645-MW16	T-III	28.26	1/17/2006	14.85	0.00	13.41
UST645-MW16	T-III	28.26	2/27/2006	15.79	0.00	12.47
UST645-MW16	T-III	28.26	3/8/2006	16.52	0.00	11.74
UST645-MW16	T-III	28.26	4/18/2006	17.60	0.00	10.66
UST645-MW16	T-III	28.26	5/2/2006	16.48	0.00	11.78
UST645-MW16	T-III	28.26	6/7/2006	17.28	0.00	10.98
UST645-MW16	T-III	28.26	7/24/2006	16.03	0.00	12.23
UST645-MW16	T-III	28.26	1/8/2007	12.99	0.00	15.27
UST645-MW16	T-III	28.26	3/22/2007	13.82	0.00	14.44
UST645-MW16	T-III	28.26	7/17/2007	15.70	0.00	12.56

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5. GWT = Groundwater Table
6. A zero ("0.00") in the product thickness column indicates no measureable thickness.
7. GWT Elevation corrected for measurable free product, if present.

Well No.	Type	TOC	Date	DTW	Product Thickness	Corrected GWT Elevation
UST645-MW17	T-III	27.27	9/13/2005	13.20	0.00	14.07
UST645-MW17	T-III	27.27	12/16/2005	17.92	0.00	9.35
UST645-MW17	T-III	27.27	1/17/2006	14.00	0.00	13.27
UST645-MW17	T-III	27.27	2/27/2006	12.97	0.00	14.30
UST645-MW17	T-III	27.27	3/8/2006	15.67	0.00	11.60
UST645-MW17	T-III	27.27	4/18/2006	16.75	0.00	10.52
UST645-MW17	T-III	27.27	5/2/2006	15.80	0.00	11.47
UST645-MW17	T-III	27.27	6/7/2006	16.40	0.00	10.87
UST645-MW17	T-III	27.27	7/24/2006	15.20	0.00	12.07
UST645-MW17	T-III	27.27	1/8/2007	10.60	0.00	16.67
UST645-MW17	T-III	27.27	3/22/2007	12.84	0.00	14.43
UST645-MW17	T-III	27.27	7/17/2007	14.62	0.00	12.65
UST645-MW18	T-III	31.45	9/13/2005	12.54	0.00	18.91
UST645-MW18	T-III	31.45	12/16/2005	17.59	0.00	13.86
UST645-MW18	T-III	31.45	1/17/2006	15.15	0.00	16.30
UST645-MW18	T-III	31.45	2/27/2006	15.91	0.00	15.54
UST645-MW18	T-III	31.45	3/8/2006	16.47	0.00	14.98
UST645-MW18	T-III	31.45	4/18/2006	17.62	0.00	13.83
UST645-MW18	T-III	31.45	5/2/2006	16.97	0.00	14.48
UST645-MW18	T-III	31.45	6/7/2006	17.62	0.00	13.83
UST645-MW18	T-III	31.45	7/24/2006	15.95	0.00	15.50
UST645-MW18	T-III	31.45	1/8/2007	13.10	0.00	18.35
UST645-MW18	T-III	31.45	3/22/2007	13.87	0.00	17.58
UST645-MW18	T-III	31.45	7/17/2007	15.98	0.00	15.47
UST645-MW18	T-III	31.45	10/18/2007	18.55	0.00	12.90
UST645-MW19	T-II	28.34	9/13/2005	9.75	0.00	18.59
UST645-MW19	T-II	28.34	12/16/2005	17.33	0.00	11.01
UST645-MW19	T-II	28.34	1/17/2006	14.85	0.00	13.49
UST645-MW19	T-II	28.34	2/27/2006	15.07	0.00	13.27
UST645-MW19	T-II	28.34	3/8/2006	16.75	0.00	11.59
UST645-MW19	T-II	28.34	4/18/2006	17.60	0.00	10.74

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4. Product thickness is measured in feet.
5. GWT = Groundwater Table
6. A zero ("0.00") in the product thickness column indicates no measureable thickness.
7. GWT Elevation corrected for measurable free product, if present.

Well No.	Type	TOC	Date	DTW	Product Thickness	Corrected GWT Elevation
UST645-MW19	T-II	28.34	5/2/2006	13.30	0.00	15.04
UST645-MW19	T-II	28.34	6/7/2006	16.40	0.00	11.94
UST645-MW19	T-II	28.34	7/24/2006	16.43	0.00	11.91
UST645-MW19	T-II	28.34	3/22/2007	13.43	0.00	14.91
UST645-MW19	T-II	28.34	7/17/2007	15.51	0.00	12.83
UST645-MW20	T-III	28.33	9/13/2005	9.82	0.00	18.51
UST645-MW20	T-III	28.33	12/16/2005	17.20	0.00	11.13
UST645-MW20	T-III	28.33	1/17/2006	14.77	0.00	13.56
UST645-MW20	T-III	28.33	2/27/2006	15.05	0.00	13.28
UST645-MW20	T-III	28.33	3/8/2006	16.56	0.00	11.77
UST645-MW20	T-III	28.33	4/18/2006	17.47	0.00	10.86
UST645-MW20	T-III	28.33	5/2/2006	16.00	0.00	12.33
UST645-MW20	T-III	28.33	6/7/2006	16.90	0.00	11.43
UST645-MW20	T-III	28.33	7/24/2006	16.01	0.00	12.32
UST645-MW20	T-III	28.33	3/22/2007	13.08	0.00	15.25
UST645-MW20	T-III	28.33	7/17/2007	15.54	0.00	12.79
UST645-MW21	T-III	23.08	9/13/2005	9.88	0.00	13.20
UST645-MW21	T-III	23.08	12/16/2005	12.16	0.00	10.92
UST645-MW21	T-III	23.08	1/17/2006	9.37	0.00	13.71
UST645-MW21	T-III	23.08	2/27/2006	10.22	0.00	12.86
UST645-MW21	T-III	23.08	3/8/2006	10.77	0.00	12.31
UST645-MW21	T-III	23.08	4/18/2006	11.95	0.00	11.13
UST645-MW21	T-III	23.08	5/2/2006	11.26	0.00	11.82
UST645-MW21	T-III	23.08	6/7/2006	11.82	0.00	11.26
UST645-MW21	T-III	23.08	7/24/2006	10.35	0.00	12.73
UST645-MW21	T-III	23.08	3/22/2007	7.37	0.00	15.71
UST645-MW21	T-III	23.08	7/17/2007	10.25	0.00	12.83
UST645-MW22	T-III	28.51	9/13/2005	9.44	0.00	19.07
UST645-MW22	T-III	28.51	12/16/2005	17.67	0.00	10.84
UST645-MW22	T-III	28.51	1/17/2006	15.27	0.00	13.24
UST645-MW22	T-III	28.51	2/27/2006	15.67	0.00	12.84

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4. Product thickness is measured in feet.
5. GWT = Groundwater Table
6. A zero ("0.00") in the product thickness column indicates no measureable thickness.
7. GWT Elevation corrected for measurable free product, if present.

Well No.	Type	TOC	Date	DTW	Product Thickness	Corrected GWT Elevation
UST645-MW22	T-III	28.51	3/8/2006	16.24	0.00	12.27
UST645-MW22	T-III	28.51	4/18/2006		0.00	
UST645-MW22	T-III	28.51	5/2/2006	16.67	0.00	11.84
UST645-MW22	T-III	28.51	6/7/2006	17.33	0.00	11.18
UST645-MW22	T-III	28.51	7/24/2006	15.73	0.00	12.78
UST645-MW22	T-III	28.51	1/8/2007	12.72	0.00	15.79
UST645-MW22	T-III	28.51	3/22/2007	13.71	0.00	14.80
UST645-MW22	T-III	28.51	7/17/2007	15.56	0.00	12.95
UST645-MW23	T-II	28.57	9/13/2005	11.41	0.00	17.16
UST645-MW23	T-II	28.57	12/16/2005	12.27	0.00	16.30
UST645-MW23	T-II	28.57	1/17/2006	8.55	0.00	20.02
UST645-MW23	T-II	28.57	2/27/2006	8.81	0.00	19.76
UST645-MW23	T-II	28.57	3/8/2006	9.69	0.00	18.88
UST645-MW23	T-II	28.57	4/18/2006		0.00	
UST645-MW23	T-II	28.57	5/2/2006	10.72	0.00	17.85
UST645-MW23	T-II	28.57	6/7/2006	13.82	0.00	14.75
UST645-MW23	T-II	28.57	7/24/2006	10.45	0.00	18.12
UST645-MW23	T-II	28.57	1/8/2007	5.32	0.00	23.25
UST645-MW23	T-II	28.57	3/22/2007	6.50	0.00	22.07
UST645-MW23	T-II	28.57	7/17/2007	14.24	0.00	14.33
UST645-MW24	T-II	25.51	1/8/2007	5.87	0.00	19.64
UST645-MW24	T-II	25.51	3/22/2007	7.30	0.00	18.21
UST645-MW24	T-II	25.51	7/17/2007	13.25	0.00	12.26
UST645-MW25	T-II	24.59	1/8/2007	8.17	0.00	16.42
UST645-MW25	T-II	24.59	3/22/2007	7.94	0.00	16.65
UST645-MW25	T-II	24.59	7/17/2007	12.35	0.00	12.24
UST645-MW26	T-III	29.30	1/8/2007	11.82	0.00	17.48
UST645-MW26	T-III	29.30	3/22/2007	12.81	0.00	16.49
UST645-MW26	T-III	29.30	7/17/2007	14.49	0.00	14.81
UST645-MW26	T-III	29.30	10/18/2007	17.21	0.00	12.09

Notes:
1. T-II = Type II monitoring well
   T-III = Type III monitoring well
   RW = Recovery well
2. TOC = Top of casing elevation in feet relative to Mean Sea Level.
3. DTW = Depth to water (in feet) from top of well casing.
4. Product thickness is measured in feet.
5. GWT = Groundwater Table
6. A zero ("0.00") in the product thickness column indicates no measureable thickness.
7. GWT Elevation corrected for measurable free product, if present.

Well No.	Type	TOC	Date	DTW	Product Thickness	Corrected GWT Elevation
UST645-MW27	T-III	29.28	1/8/2007	14.52	0.00	14.76
UST645-MW27	T-III	29.28	3/22/2007	15.18	0.00	14.10
UST645-MW27	T-III	29.28	7/17/2007	17.32	0.00	11.96
UST645-MW27	T-III	29.28	10/18/2007	20.00	0.00	9.28
UST645-MW28	T-III	26.79	1/8/2007	11.80	0.00	14.99
UST645-MW28	T-III	26.79	3/22/2007	15.10	0.00	11.69
UST645-MW28	T-III	26.79	7/17/2007	15.03	0.00	11.76
UST645-MW29	T-III	26.05	1/8/2007	11.40	0.00	14.65
UST645-MW29	T-III	26.05	3/22/2007	12.92	0.00	13.13
UST645-MW29	T-III	26.05	7/17/2007	14.00	0.00	12.05
UST645-MW29	T-III	26.05	10/18/2007	16.56	0.00	9.49
UST645-MW30	T-III	29.14	1/8/2007	5.91	0.00	23.23
UST645-MW30	T-III	29.14	3/22/2007	14.95	0.00	14.19
UST645-MW30	T-III	29.14	7/17/2007	17.00	0.00	12.14
UST645-MW30	T-III	29.14	10/18/2007	19.52	0.00	9.62
UST645-MW31	T-III	28.24	1/8/2007	15.15	0.00	13.09
UST645-MW31	T-III	28.24	3/22/2007	17.06	0.00	11.18
UST645-MW31	T-III	28.24	7/17/2007	16.60	0.00	11.64
UST645-MW32	T-III	29.27	1/8/2007	14.25	0.00	15.02
UST645-MW32	T-III	29.27	3/22/2007	19.34	0.00	9.93
UST645-MW32	T-III	29.27	7/17/2007	16.90	0.00	12.37
UST645-MW32	T-III	29.27	10/18/2007	19.54	0.00	9.73
UST645-MW33	T-III	25.15	10/18/2007	16.55	0.00	8.60
UST645-MW34	T-III	27.45	10/18/2007	18.90	0.00	8.55

Notes:
1. T-II = Type II monitoring well
   T-III = Type III monitoring well
   RW = Recovery well
2. TOC = Top of casing elevation in feet relative to Mean Sea Level.
3. DTW = Depth to water (in feet) from top of well casing.
4. Product thickness is measured in feet.
5. GWT = Groundwater Table
6. A zero ("0.00") in the product thickness column indicates no measureable thickness.
7. GWT Elevation corrected for measurable free product, if present.

TABLE 13.2

SITE 645

GROUNDWATER LABORATORY ANALYTICAL RESULTS - JULY 2005 TO DECEMBER 2007

EPA METHOD 601

Contaminant of Concern →		1,2-Dichloroethane	Bromodichloromethane	Chloroform	Chloromethane	Dibromochloromethane
Well ID	Date					
2L GWQS		0.38	0.6	70	2.6	0.41
GCL		380	0	70000	2600	0
UST645-MW01	1/4/2006	BQL	BQL	BQL	BQL	BQL
UST645-MW01	7/18/2007	BQL	BQL	BQL	BQL	BQL
UST645-MW02	1/5/2006	BQL	BQL	BQL	BQL	BQL
UST645-MW02	7/18/2007	BQL	BQL	BQL	BQL	BQL
UST645-MW03	1/4/2006	BQL	BQL	BQL	BQL	BQL
UST645-MW03	7/18/2007	BQL	BQL	BQL	BQL	BQL
UST645-MW04	1/5/2006	BQL	BQL	BQL	BQL	BQL
UST645-MW04	7/18/2007	BQL	BQL	BQL	BQL	BQL
UST645-MW05	1/4/2006	BQL	BQL	BQL	BQL	BQL
UST645-MW05	7/19/2007	BQL	BQL	BQL	BQL	BQL

Notes:
1. 2L GWQS = North Carolina groundwater quality standard 15A NCAC 2L .0202
2. GCL = Gross Contamination Levels for ground water as defined in "Guidelines for Assessment and Corrective Action" North Carolina Underground Storage Tank Section, effective July 1, 2001
3. All units are in ug/L (Micrograms per Liter)
4. BQL = Below Quantitaion Limits
5. A zero in the 2L GWQS row indicates the 2L Standard is equal to the laboratory detection limit
6. A zero in the GCL row indicates a GCL has not been established
7. Shaded concentrations indicate exceedance of the 2L GWQS
8. Only compounds which were detected are shown on table. All other compounds were BQL

TABLE 13.2

SITE 645

GROUNDWATER LABORATORY ANALYTICAL RESULTS - JULY 2005 TO DECEMBER 2007

EPA METHOD 601

Contaminant of Concern →		1,2-Dichloroethane	Bromodichloromethane	Chloroform	Chloromethane	Dibromochloromethane
Well ID	Date					
2L GWQS		0.38	0.6	70	2.6	0.41
GCL		380	0	70000	2600	0
UST645-MW06	1/5/2006	BQL	BQL	BQL	BQL	BQL
UST645-MW06	7/19/2007	BQL	BQL	BQL	BQL	BQL
UST645-MW08	1/4/2006	BQL	BQL	BQL	BQL	BQL
UST645-MW08	7/17/2007	BQL	BQL	BQL	BQL	BQL
UST645-MW09	1/5/2006	BQL	BQL	BQL	BQL	BQL
UST645-MW09	7/18/2007	BQL	BQL	BQL	BQL	BQL
UST645-MW10	1/6/2006	BQL	BQL	BQL	BQL	BQL
UST645-MW10	7/19/2007	BQL	BQL	BQL	BQL	BQL
UST645-MW11	1/4/2006	BQL	BQL	BQL	BQL	BQL
UST645-MW11	7/17/2007	BQL	BQL	BQL	BQL	BQL

Notes:
1. 2L GWQS = North Carolina groundwater quality standard 15A NCAC 2L .0202
2. GCL = Gross Contamination Levels for ground water as defined in "Guidelines for Assessment and Corrective Action" North Carolina Underground Storage Tank Section, effective July 1, 2001
3. All units are in ug/L (Micrograms per Liter)
4. BQL = Below Quantitaion Limits
5. A zero in the 2L GWQS row indicates the 2L Standard is equal to the laboratory detection limit
6. A zero in the GCL row indicates a GCL has not been established
7. Shaded concentrations indicate exceedance of the 2L GWQS
8. Only compounds which were detected are shown on table. All other compounds were BQL

TABLE 13.2

SITE 645

GROUNDWATER LABORATORY ANALYTICAL RESULTS - JULY 2005 TO DECEMBER 2007

EPA METHOD 601

Contaminant of Concern →		1,2-Dichloroethane	Bromodichloromethane	Chloroform	Chloromethane	Dibromochloromethane
Well ID	Date					
2L GWQS		0.38	0.6	70	2.6	0.41
GCL		380	0	70000	2600	0
UST645-MW12	1/4/2006	BQL	BQL	BQL	BQL	BQL
UST645-MW12	7/18/2007	BQL	BQL	BQL	BQL	BQL
UST645-MW13	1/4/2006	BQL	BQL	BQL	BQL	BQL
UST645-MW13	7/17/2007	BQL	BQL	BQL	BQL	BQL
UST645-MW14	1/6/2006	BQL	BQL	BQL	BQL	BQL
UST645-MW14	7/19/2007	BQL	BQL	BQL	BQL	BQL
UST645-MW15	1/5/2006	BQL	BQL	BQL	BQL	BQL
UST645-MW15	7/18/2007	BQL	BQL	BQL	BQL	BQL
UST645-MW16	1/6/2006	BQL	BQL	BQL	BQL	BQL
UST645-MW16	7/19/2007	BQL	BQL	BQL	BQL	BQL

Notes:
1. 2L GWQS = North Carolina groundwater quality standard 15A NCAC 2L .0202
2. GCL = Gross Contamination Levels for ground water as defined in "Guidelines for Assessment and Corrective Action" North Carolina Underground Storage Tank Section, effective July 1, 2001
3. All units are in ug/L (Micrograms per Liter)
4. BQL = Below Quantitaion Limits
5. A zero in the 2L GWQS row indicates the 2L Standard is equal to the laboratory detection limit
6. A zero in the GCL row indicates a GCL has not been established
7. Shaded concentrations indicate exceedance of the 2L GWQS
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TABLE 13.2

SITE 645

GROUNDWATER LABORATORY ANALYTICAL RESULTS - JULY 2005 TO DECEMBER 2007

EPA METHOD 601

Contaminant of Concern →		1,2-Dichloroethane	Bromodichloromethane	Chloroform	Chloromethane	Dibromochloromethane
Well ID	Date					
2L GWQS		0.38	0.6	70	2.6	0.41
GCL		380	0	70000	2600	0
UST645-MW17	1/5/2006	BQL	BQL	BQL	BQL	BQL
UST645-MW17	7/18/2007	BQL	BQL	BQL	BQL	BQL
UST645-MW18	1/5/2006	BQL	BQL	BQL	BQL	BQL
UST645-MW18	7/19/2007	BQL	BQL	BQL	BQL	BQL
UST645-MW19	1/6/2006	BQL	BQL	BQL	BQL	BQL
UST645-MW19	7/18/2007	BQL	BQL	BQL	BQL	BQL
UST645-MW20	1/6/2006	BQL	BQL	BQL	BQL	BQL
UST645-MW20	7/18/2007	BQL	BQL	BQL	BQL	BQL
UST645-MW21	1/5/2006	BQL	BQL	BQL	BQL	BQL
UST645-MW21	7/18/2007	BQL	BQL	BQL	BQL	BQL

Notes:
1. 2L GWQS = North Carolina groundwater quality standard 15A NCAC 2L .0202
2. GCL = Gross Contamination Levels for ground water as defined in "Guidelines for Assessment and Corrective Action" North Carolina Underground Storage Tank Section, effective July 1, 2001
3. All units are in ug/L (Micrograms per Liter)
4. BQL = Below Quantitaion Limits
5. A zero in the 2L GWQS row indicates the 2L Standard is equal to the laboratory detection limit
6. A zero in the GCL row indicates a GCL has not been established
7. Shaded concentrations indicate exceedance of the 2L GWQS
8. Only compounds which were detected are shown on table. All other compounds were BQL

TABLE 13.2

SITE 645

GROUNDWATER LABORATORY ANALYTICAL RESULTS - JULY 2005 TO DECEMBER 2007

EPA METHOD 601

Contaminant of Concern →		1,2-Dichloroethane	Bromodichloromethane	Chloroform	Chloromethane	Dibromochloromethane
Well ID	Date					
2L GWQS		0.38	0.6	70	2.6	0.41
GCL		380	0	70000	2600	0
UST645-MW22	1/5/2006	BQL	BQL	BQL	BQL	BQL
UST645-MW22	7/18/2007	BQL	BQL	BQL	BQL	BQL
UST645-MW23	1/5/2006	BQL	BQL	BQL	BQL	BQL
UST645-MW23	7/18/2007	BQL	BQL	BQL	BQL	BQL
UST645-MW24	1/6/2006	BQL	BQL	BQL	BQL	BQL
UST645-MW24	7/18/2007	BQL	BQL	BQL	BQL	BQL
UST645-MW25	1/6/2006	BQL	BQL	BQL	BQL	BQL
UST645-MW25	7/18/2007	BQL	BQL	BQL	BQL	BQL
UST645-MW26	1/6/2006	BQL	0.67	2.42	0.80	BQL
UST645-MW26	7/19/2007	BQL	BQL	BQL	BQL	BQL

Notes:
1. 2L GWQS = North Carolina groundwater quality standard 15A NCAC 2L .0202
2. GCL = Gross Contamination Levels for ground water as defined in "Guidelines for Assessment and Corrective Action" North Carolina Underground Storage Tank Section, effective July 1, 2001
3. All units are in ug/L (Micrograms per Liter)
4. BQL = Below Quantitaion Limits
5. A zero in the 2L GWQS row indicates the 2L Standard is equal to the laboratory detection limit
6. A zero in the GCL row indicates a GCL has not been established
7. Shaded concentrations indicate exceedance of the 2L GWQS
8. Only compounds which were detected are shown on table. All other compounds were BQL

TABLE 13.2

SITE 645

GROUNDWATER LABORATORY ANALYTICAL RESULTS - JULY 2005 TO DECEMBER 2007

EPA METHOD 601

Contaminant of Concern →		1,2-Dichloroethane	Bromodichloromethane	Chloroform	Chloromethane	Dibromochloromethane
Well ID	Date					
2L GWQS		0.38	0.6	70	2.6	0.41
GCL		380	0	70000	2600	0
UST645-MW27	1/6/2006	BQL	BQL	1.96	BQL	BQL
UST645-MW27	7/19/2007	0.15	BQL	BQL	BQL	BQL
UST645-MW28	1/6/2006	BQL	**3.20**	30.60	BQL	**3.33**
UST645-MW28	7/17/2007	BQL	BQL	BQL	BQL	BQL
UST645-MW29	1/5/2006	BQL	BQL	4.20	BQL	BQL
UST645-MW29	7/19/2007	BQL	BQL	BQL	BQL	BQL
UST645-MW30	1/6/2006	BQL	BQL	BQL	BQL	BQL
UST645-MW30	7/19/2007	BQL	BQL	BQL	BQL	BQL
UST645-MW31	1/5/2006	BQL	**6.48**	17.80	BQL	**4.91**
UST645-MW31	7/19/2007	BQL	BQL	0.96	BQL	BQL
UST645-MW32	7/19/2007	BQL	BQL	BQL	BQL	BQL

Notes:
1. 2L GWQS = North Carolina groundwater quality standard 15A NCAC 2L .0202
2. GCL = Gross Contamination Levels for ground water as defined in "Guidelines for Assessment and Corrective Action" North Carolina Underground Storage Tank Section, effective July 1, 2001
3. All units are in ug/L (Micrograms per Liter)
4. BQL = Below Quantitaion Limits
5. A zero in the 2L GWQS row indicates the 2L Standard is equal to the laboratory detection limit
6. A zero in the GCL row indicates a GCL has not been established
7. Shaded concentrations indicate exceedance of the 2L GWQS
8. Only compounds which were detected are shown on table. All other compounds were BQL

TABLE 13.3

SITE 645

GROUNDWATER LABORATORY ANALYTICAL RESULTS - JULY 2005 TO DECEMBER 2007

EPA METHOD 602

Contaminant of Concern →		1,2-Dichlorobenzene	Benzene	Chlorobenzene	Diisopropyl ether (DIPE)	Ethylbenzene	m/p-Xylene	Methyl Tert Butyl Ether	Methyl-tert butyl ether	o-Xylene	Toluene	Total Xylenes	Xylenes (total)
Well ID	**Date**												
2L GWQS		24	1	50	70	550	530	200	200	530	1000	530	530
GCL		72500	5000	0	70000	550000	87500	200000	200000	87500	257500	87500	87500
UST645-MW01	9/22/2005	75.60	2.00	0.84	BQL	35.20	BQL	2.70	BQL	BQL	27.90	BQL	64.70
UST645-MW01	1/4/2006	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
UST645-MW01	1/16/2006	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
UST645-MW01	4/18/2006	BQL	0.58	BQL	0.74	15.60	BQL	BQL	BQL	BQL	9.38	BQL	22.78
UST645-MW01	7/26/2006	BQL	1.98	BQL	BQL	25.10	BQL	BQL	BQL	BQL	25.60	50.20	BQL
UST645-MW01	7/18/2007	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL

Notes:
1. 2L GWQS = North Carolina groundwater quality standard 15A NCAC 2L .0202
2. GCL = Gross Contamination Levels for ground water as defined in "Guidelines for Assessment and Corrective Action" North Carolina Underground Storage Tank Section, effective July 1, 2001
3. All units are in ug/L (Micrograms per Liter)
4. BQL = Below Quantitaion Limits
5. A zero in the 2L GWQS row indicates the 2L Standard is equal to the laboratory detection limit
6. A zero in the GCL row indicates a GCL has not been established
7. Shaded concentrations indicate exceedance of the 2L GWQS
8. Only compounds which were detected are shown on table. All other compounds were BQL
9. Please note, compounds reported in duplicate columns are the result of multiple laboratories submitting EDD data with different nomenclature. Unless BQL appears in both duplicate columns, a detection is present and that concentration is reported numerically.

TABLE 13.3

SITE 645

GROUNDWATER LABORATORY ANALYTICAL RESULTS - JULY 2005 TO DECEMBER 2007

EPA METHOD 602

Contaminant of Concern →		1,2-Dichlorobenzene	Benzene	Chlorobenzene	Diisopropyl ether (DIPE)	Ethylbenzene	m/p-Xylene	Methyl Tert Butyl Ether	Methyl-tert butyl ether	o-Xylene	Toluene	Total Xylenes	Xylenes (total)
Well ID	**Date**												
	2L GWQS	24	1	50	70	550	530	200	200	530	1000	530	530
	GCL	72500	5000	0	70000	550000	87500	200000	200000	87500	257500	87500	87500
UST645-MW02	9/22/2005	**69.90**	0.73	BQL	BQL	53.80	BQL	6.10	BQL	BQL	9.30	BQL	240.00
UST645-MW02	1/5/2006	BQL	BQL	BQL	BQL	0.86	BQL	BQL	BQL	BQL	BQL	BQL	1.51
UST645-MW02	1/16/2006	BQL	BQL	BQL	BQL	0.36	BQL	BQL	BQL	BQL	BQL	BQL	BQL
UST645-MW02	4/18/2006	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
UST645-MW02	7/26/2006	BQL	BQL	BQL	BQL	0.60	BQL	BQL	BQL	BQL	0.81	2.48	BQL
UST645-MW02	7/18/2007	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL

Notes:
1. 2L GWQS = North Carolina groundwater quality standard 15A NCAC 2L .0202
2. GCL = Gross Contamination Levels for ground water as defined in "Guidelines for Assessment and Corrective Action" North Carolina Underground Storage Tank Section, effective July 1, 2001
3. All units are in ug/L (Micrograms per Liter)
4. BQL = Below Quantitaion Limits
5. A zero in the 2L GWQS row indicates the 2L Standard is equal to the laboratory detection limit
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8. Only compounds which were detected are shown on table. All other compounds were BQL
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TABLE 13.3

SITE 645

GROUNDWATER LABORATORY ANALYTICAL RESULTS - JULY 2005 TO DECEMBER 2007

EPA METHOD 602

Contaminant of Concern →		1,2-Dichlorobenzene	Benzene	Chlorobenzene	Diisopropyl ether (DIPE)	Ethylbenzene	m/p-Xylene	Methyl Tert Butyl Ether	Methyl-tert butyl ether	o-Xylene	Toluene	Total Xylenes	Xylenes (total)
Well ID	**Date**												
	2L GWQS	24	1	50	70	550	530	200	200	530	1000	530	530
	GCL	72500	5000	0	70000	550000	87500	200000	200000	87500	257500	87500	87500
UST645-MW03	9/22/2005	3.00	BQL	BQL	BQL	5.00	BQL	BQL	BQL	BQL	BQL	BQL	2.70
UST645-MW03	1/4/2006	BQL	BQL	BQL	BQL	9.92	BQL	BQL	BQL	BQL	1.00	BQL	7.98
UST645-MW03	1/16/2006	BQL	BQL	BQL	BQL	16.10	BQL	BQL	BQL	BQL	1.82	BQL	13.87
UST645-MW03	4/18/2006	BQL	0.47	BQL	BQL	20.40	BQL	BQL	BQL	BQL	BQL	BQL	BQL
UST645-MW03	7/25/2006	BQL	0.66	BQL	BQL	24.70	BQL	BQL	BQL	BQL	1.93	14.75	BQL
UST645-MW03	7/18/2007	BQL	BQL	BQL	BQL	11.00	BQL	BQL	BQL	BQL	BQL	BQL	BQL
UST645-MW04	1/5/2006	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
UST645-MW04	7/18/2007	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
UST645-MW05	1/4/2006	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
UST645-MW05	7/19/2007	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL

Notes:
1. 2L GWQS = North Carolina groundwater quality standard 15A NCAC 2L .0202
2. GCL = Gross Contamination Levels for ground water as defined in "Guidelines for Assessment and Corrective Action" North Carolina Underground Storage Tank Section, effective July 1, 2001
3. All units are in ug/L (Micrograms per Liter)
4. BQL = Below Quantitaion Limits
5. A zero in the 2L GWQS row indicates the 2L Standard is equal to the laboratory detection limit
6. A zero in the GCL row indicates a GCL has not been established
7. Shaded concentrations indicate exceedance of the 2L GWQS
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9. Please note, compounds reported in duplicate columns are the result of multiple laboratories submitting EDD data with different nomenclature. Unless BQL appears in both duplicate columns, a detection is present and that concentration is reported numerically.

TABLE 13.3

SITE 645

GROUNDWATER LABORATORY ANALYTICAL RESULTS - JULY 2005 TO DECEMBER 2007

EPA METHOD 602

Contaminant of Concern →		1,2-Dichlorobenzene	Benzene	Chlorobenzene	Diisopropyl ether (DIPE)	Ethylbenzene	m/p-Xylene	Methyl Tert Butyl Ether	Methyl-tert butyl ether	o-Xylene	Toluene	Total Xylenes	Xylenes (total)
Well ID	**Date**												
2L GWQS		24	1	50	70	550	530	200	200	530	1000	530	530
GCL		72500	5000	0	70000	550000	87500	200000	200000	87500	257500	87500	87500
UST645-MW06	1/5/2006	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
UST645-MW06	7/19/2007	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
UST645-MW08	1/4/2006	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
UST645-MW08	7/17/2007	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
UST645-MW09	9/22/2005	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
UST645-MW09	1/5/2006	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
UST645-MW09	1/17/2006	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
UST645-MW09	4/18/2006	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
UST645-MW09	7/25/2006	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	1.20	1.30	BQL
UST645-MW09	7/18/2007	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL

Notes:
1. 2L GWQS = North Carolina groundwater quality standard 15A NCAC 2L .0202
2. GCL = Gross Contamination Levels for ground water as defined in "Guidelines for Assessment and Corrective Action" North Carolina Underground Storage Tank Section, effective July 1, 2001
3. All units are in ug/L (Micrograms per Liter)
4. BQL = Below Quantitaion Limits
5. A zero in the 2L GWQS row indicates the 2L Standard is equal to the laboratory detection limit
6. A zero in the GCL row indicates a GCL has not been established
7. Shaded concentrations indicate exceedance of the 2L GWQS
8. Only compounds which were detected are shown on table. All other compounds were BQL
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TABLE 13.3

SITE 645

GROUNDWATER LABORATORY ANALYTICAL RESULTS - JULY 2005 TO DECEMBER 2007

EPA METHOD 602

Contaminant of Concern →		1,2-Dichlorobenzene	Benzene	Chlorobenzene	Diisopropyl ether (DIPE)	Ethylbenzene	m/p-Xylene	Methyl Tert Butyl Ether	Methyl-tert butyl ether	o-Xylene	Toluene	Total Xylenes	Xylenes (total)
Well ID	**Date**												
2L GWQS		24	1	50	70	550	530	200	200	530	1000	530	530
GCL		72500	5000	0	70000	550000	87500	200000	200000	87500	257500	87500	87500
UST645-MW10	1/6/2006	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
UST645-MW10	7/19/2007	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
UST645-MW11	1/4/2006	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
UST645-MW11	7/17/2007	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
UST645-MW12	9/22/2005	**31.60**	**4.20**	BQL	BQL	115.00	BQL	BQL	BQL	BQL	26.30	BQL	472.00
UST645-MW12	1/4/2006	BQL	BQL	BQL	BQL	6.26	BQL	BQL	BQL	BQL	2.41	BQL	34.13
UST645-MW12	1/17/2006	BQL	**7.84**	BQL	BQL	212.00	BQL	BQL	BQL	BQL	123.00	BQL	**938.00**
UST645-MW12	4/18/2006	BQL	BQL	BQL	BQL	8.23	BQL	BQL	BQL	BQL	1.23	BQL	32.74
UST645-MW12	7/25/2006	BQL	BQL	BQL	BQL	69.80	BQL	BQL	BQL	BQL	15.10	329.00	BQL
UST645-MW12	7/18/2007	BQL	BQL	BQL	BQL	146.00	BQL	BQL	BQL	BQL	BQL	361.00	BQL

Notes:
1. 2L GWQS = North Carolina groundwater quality standard 15A NCAC 2L .0202
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3. All units are in ug/L (Micrograms per Liter)
4. BQL = Below Quantitaion Limits
5. A zero in the 2L GWQS row indicates the 2L Standard is equal to the laboratory detection limit
6. A zero in the GCL row indicates a GCL has not been established
7. Shaded concentrations indicate exceedance of the 2L GWQS
8. Only compounds which were detected are shown on table. All other compounds were BQL
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GROUNDWATER LABORATORY ANALYTICAL RESULTS - JULY 2005 TO DECEMBER 2007

EPA METHOD 602

Contaminant of Concern →		1,2-Dichlorobenzene	Benzene	Chlorobenzene	Diisopropyl ether (DIPE)	Ethylbenzene	m/p-Xylene	Methyl Tert Butyl Ether	Methyl-tert butyl ether	o-Xylene	Toluene	Total Xylenes	Xylenes (total)
Well ID	**Date**												
	2L GWQS	24	1	50	70	550	530	200	200	530	1000	530	530
	GCL	72500	5000	0	70000	550000	87500	200000	200000	87500	257500	87500	87500
UST645-MW13	1/4/2006	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
UST645-MW13	7/17/2007	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
UST645-MW14	1/6/2006	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
UST645-MW14	7/19/2007	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
UST645-MW15	9/22/2005	BQL	BQL	BQL	BQL	BQL	BQL	1.00	BQL	BQL	0.74	BQL	BQL
UST645-MW15	1/5/2006	BQL	BQL	BQL	BQL	BQL	BQL	BQL	0.92	BQL	BQL	BQL	BQL
UST645-MW15	1/16/2006	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
UST645-MW15	4/18/2006	BQL	BQL	BQL	BQL	BQL	BQL	BQL	1.86	BQL	BQL	BQL	BQL
UST645-MW15	7/25/2006	BQL	BQL	BQL	BQL	BQL	BQL	BQL	0.82	BQL	0.80	0.96	BQL
UST645-MW15	7/18/2007	BQL	BQL	BQL	BQL	BQL	BQL	BQL	2.34	BQL	BQL	BQL	BQL

Notes:
1. 2L GWQS = North Carolina groundwater quality standard 15A NCAC 2L .0202
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TABLE 13.3

SITE 645

GROUNDWATER LABORATORY ANALYTICAL RESULTS - JULY 2005 TO DECEMBER 2007

EPA METHOD 602

Contaminant of Concern →		1,2-Dichlorobenzene	Benzene	Chlorobenzene	Diisopropyl ether (DIPE)	Ethylbenzene	m/p-Xylene	Methyl Tert Butyl Ether	Methyl-tert butyl ether	o-Xylene	Toluene	Total Xylenes	Xylenes (total)
Well ID	**Date**												
2L GWQS		24	1	50	70	550	530	200	200	530	1000	530	530
GCL		72500	5000	0	70000	550000	87500	200000	200000	87500	257500	87500	87500
UST645-MW16	1/6/2006	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
UST645-MW16	7/19/2007	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
UST645-MW17	1/5/2006	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
UST645-MW17	7/18/2007	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL

Notes:
1. 2L GWQS = North Carolina groundwater quality standard 15A NCAC 2L .0202
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EPA METHOD 602

Contaminant of Concern →		1,2-Dichlorobenzene	Benzene	Chlorobenzene	Diisopropyl ether (DIPE)	Ethylbenzene	m/p-Xylene	Methyl Tert Butyl Ether	Methyl-tert butyl ether	o-Xylene	Toluene	Total Xylenes	Xylenes (total)
Well ID	**Date**												
2L GWQS		24	1	50	70	550	530	200	200	530	1000	530	530
GCL		72500	5000	0	70000	550000	87500	200000	200000	87500	257500	87500	87500
UST645-MW18	9/27/2005	BQL	**49.00**	BQL	BQL	273.00	BQL	BQL	BQL	BQL	259.00	BQL	281.00
UST645-MW18	1/5/2006	BQL	0.88	BQL	BQL	2.04	BQL	BQL	BQL	BQL	2.95	BQL	3.42
UST645-MW18	1/17/2006	BQL	0.81	BQL	BQL	1.90	BQL	BQL	BQL	BQL	3.10	BQL	4.57
UST645-MW18	2/21/2006	BQL	**27.70**	BQL	BQL	173.00	47.20	BQL	BQL	25.20	31.00	BQL	BQL
UST645-MW18	4/19/2006	BQL	**23.50**	BQL	BQL	112.00	BQL	BQL	BQL	BQL	10.40	BQL	32.60
UST645-MW18	7/26/2006	BQL	**18.10**	BQL	BQL	96.80	BQL	BQL	BQL	BQL	6.88	20.54	BQL
UST645-MW18	3/22/2007	BQL	**3.97**	BQL	BQL	16.80	BQL	BQL	BQL	BQL	0.52	BQL	BQL
UST645-MW18	7/19/2007	BQL	**7.20**	BQL	BQL	72.80	BQL	BQL	BQL	BQL	BQL	BQL	BQL
UST645-MW18	10/18/2007	BQL	**6.94**	BQL	BQL	55.00	BQL	BQL	BQL	BQL	BQL	BQL	BQL

Notes:
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7. Shaded concentrations indicate exceedance of the 2L GWQS
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GROUNDWATER LABORATORY ANALYTICAL RESULTS - JULY 2005 TO DECEMBER 2007

EPA METHOD 602

Contaminant of Concern →		1,2-Dichlorobenzene	Benzene	Chlorobenzene	Diisopropyl ether (DIPE)	Ethylbenzene	m/p-Xylene	Methyl Tert Butyl Ether	Methyl-tert butyl ether	o-Xylene	Toluene	Total Xylenes	Xylenes (total)
Well ID	**Date**												
	2L GWQS	24	1	50	70	550	530	200	200	530	1000	530	530
	GCL	72500	5000	0	70000	550000	87500	200000	200000	87500	257500	87500	87500
UST645-MW19	1/6/2006	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
UST645-MW19	7/18/2007	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
UST645-MW20	1/6/2006	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
UST645-MW20	7/18/2007	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
UST645-MW21	9/22/2005	BQL	BQL	BQL	BQL	0.54	BQL	BQL	BQL	BQL	1.40	BQL	3.10
UST645-MW21	1/5/2006	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
UST645-MW21	1/16/2006	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
UST645-MW21	4/19/2006	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
UST645-MW21	7/24/2006	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	0.93	1.11	BQL
UST645-MW21	7/18/2007	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL

Notes:
1. 2L GWQS = North Carolina groundwater quality standard 15A NCAC 2L .0202
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EPA METHOD 602

Contaminant of Concern →		1,2-Dichlorobenzene	Benzene	Chlorobenzene	Diisopropyl ether (DIPE)	Ethylbenzene	m/p-Xylene	Methyl Tert Butyl Ether	Methyl-tert butyl ether	o-Xylene	Toluene	Total Xylenes	Xylenes (total)
Well ID	**Date**												
2L GWQS		24	1	50	70	550	530	200	200	530	1000	530	530
GCL		72500	5000	0	70000	550000	87500	200000	200000	87500	257500	87500	87500
UST645-MW22	9/27/2005	BQL	BQL	BQL	BQL	BQL	BQL	5.40	BQL	BQL	0.82	BQL	BQL
UST645-MW22	1/5/2006	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
UST645-MW22	1/16/2006	BQL	BQL	BQL	BQL	BQL	BQL	BQL	2.32	BQL	BQL	BQL	BQL
UST645-MW22	4/18/2006	BQL	BQL	BQL	BQL	BQL	BQL	BQL	0.61	BQL	BQL	BQL	BQL
UST645-MW22	7/26/2006	BQL	BQL	BQL	BQL	BQL	BQL	BQL	4.30	BQL	1.43	1.32	BQL
UST645-MW22	7/18/2007	BQL	BQL	BQL	BQL	BQL	BQL	BQL	5.07	BQL	BQL	BQL	BQL

Notes:
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Contaminant of Concern →		1,2-Dichlorobenzene	Benzene	Chlorobenzene	Diisopropyl ether (DIPE)	Ethylbenzene	m/p-Xylene	Methyl Tert Butyl Ether	Methyl-tert butyl ether	o-Xylene	Toluene	Total Xylenes	Xylenes (total)
Well ID	**Date**												
2L GWQS		24	1	50	70	550	530	200	200	530	1000	530	530
GCL		72500	5000	0	70000	550000	87500	200000	200000	87500	257500	87500	87500
UST645-MW23	9/27/2005	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
UST645-MW23	1/5/2006	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
UST645-MW23	1/16/2006	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
UST645-MW23	4/19/2006	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
UST645-MW23	7/25/2006	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	0.85	0.68	BQL
UST645-MW23	7/18/2007	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
UST645-MW24	1/6/2006	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
UST645-MW24	7/18/2007	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
UST645-MW25	1/6/2006	BQL	BQL	BQL	BQL	8.60	BQL	BQL	BQL	BQL	5.18	BQL	54.50
UST645-MW25	7/18/2007	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL

Notes:
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EPA METHOD 602

Contaminant of Concern →		1,2-Dichlorobenzene	Benzene	Chlorobenzene	Diisopropyl ether (DIPE)	Ethylbenzene	m/p-Xylene	Methyl Tert Butyl Ether	Methyl-tert butyl ether	o-Xylene	Toluene	Total Xylenes	Xylenes (total)
Well ID	**Date**												
2L GWQS		24	1	50	70	550	530	200	200	530	1000	530	530
GCL		72500	5000	0	70000	550000	87500	200000	200000	87500	257500	87500	87500
UST645-MW26	1/6/2006	BQL	**451.00**	BQL	BQL	BQL	BQL	BQL	35.90	BQL	990.00	BQL	BQL
UST645-MW26	2/21/2006	BQL	**964.00**	BQL	BQL	BQL	BQL	BQL	BQL	BQL	**2900.00**	BQL	BQL
UST645-MW26	3/22/2007	BQL	**2060.00**	BQL	BQL	325.00	BQL	BQL	BQL	BQL	**13900.00**	436.00	BQL
UST645-MW26	7/19/2007	BQL	**1180.00**	BQL	BQL	50.80	BQL	BQL	BQL	BQL	**3900.00**	BQL	BQL
UST645-MW26	10/18/2007	BQL	**1700.00**	BQL	BQL	287.00	BQL	BQL	BQL	BQL	**3410.00**	**896.00**	BQL
UST645-MW27	1/6/2006	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	2.20
UST645-MW27	3/22/2007	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
UST645-MW27	7/19/2007	BQL	**25.30**	BQL	BQL	BQL	BQL	BQL	52.20	BQL	BQL	BQL	BQL
UST645-MW27	10/18/2007	BQL	**101.00**	BQL	BQL	64.00	BQL	BQL	109.00	BQL	4.28	BQL	BQL

Notes:
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Contaminant of Concern →		1,2-Dichlorobenzene	Benzene	Chlorobenzene	Diisopropyl ether (DIPE)	Ethylbenzene	m/p-Xylene	Methyl Tert Butyl Ether	Methyl-tert butyl ether	o-Xylene	Toluene	Total Xylenes	Xylenes (total)
Well ID	**Date**												
2L GWQS		24	1	50	70	550	530	200	200	530	1000	530	530
GCL		72500	5000	0	70000	550000	87500	200000	200000	87500	257500	87500	87500
UST645-MW28	1/6/2006	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	7.62
UST645-MW28	7/17/2007	BQL	4.33	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
UST645-MW29	1/5/2006	BQL	2.17	BQL	BQL	0.83	BQL	BQL	BQL	BQL	0.72	BQL	5.62
UST645-MW29	3/22/2007	BQL	36.60	BQL	BQL	BQL	BQL	BQL	BQL	BQL	0.60	BQL	BQL
UST645-MW29	7/19/2007	BQL	22.40	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
UST645-MW29	10/18/2007	BQL	42.60	BQL	BQL	BQL	BQL	BQL	BQL	BQL	0.40	BQL	BQL
UST645-MW30	1/6/2006	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	1.59
UST645-MW30	3/22/2007	BQL	BQL	BQL	0.49	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
UST645-MW30	7/19/2007	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
UST645-MW30	10/18/2007	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	0.40	BQL	BQL

Notes:
1. 2L GWQS = North Carolina groundwater quality standard 15A NCAC 2L .0202
2. GCL = Gross Contamination Levels for ground water as defined in "Guidelines for Assessment and Corrective Action" North Carolina Underground Storage Tank Section, effective July 1, 2001
3. All units are in ug/L (Micrograms per Liter)
4. BQL = Below Quantitaion Limits
5. A zero in the 2L GWQS row indicates the 2L Standard is equal to the laboratory detection limit
6. A zero in the GCL row indicates a GCL has not been established
7. Shaded concentrations indicate exceedance of the 2L GWQS
8. Only compounds which were detected are shown on table. All other compounds were BQL
9. Please note, compounds reported in duplicate columns are the result of multiple laboratories submitting EDD data with different nomenclature. Unless BQL appears in both duplicate columns, a detection is present and that concentration is reported numerically.

TABLE 13.3

SITE 645

GROUNDWATER LABORATORY ANALYTICAL RESULTS - JULY 2005 TO DECEMBER 2007

EPA METHOD 602

Contaminant of Concern →		1,2-Dichlorobenzene	Benzene	Chlorobenzene	Diisopropyl ether (DIPE)	Ethylbenzene	m/p-Xylene	Methyl Tert Butyl Ether	Methyl-tert butyl ether	o-Xylene	Toluene	Total Xylenes	Xylenes (total)
Well ID	Date												
2L GWQS		24	1	50	70	550	530	200	200	530	1000	530	530
GCL		72500	5000	0	70000	550000	87500	200000	200000	87500	257500	87500	87500
UST645-MW31	1/5/2006	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
UST645-MW31	7/19/2007	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
UST645-MW32	3/22/2007	BQL	BQL	BQL	80:40	BQL	BQL	BQL	BQL	BQL	0.63	BQL	BQL
UST645-MW32	7/19/2007	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
UST645-MW32	10/18/2007	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	0.22	BQL	BQL
UST645-MW33	10/19/2007	BQL	2.07	BQL	BQL	BQL	BQL	BQL	BQL	BQL	0.26	BQL	BQL
UST645-MW34	10/19/2007	BQL	7.76	BQL	BQL	BQL	BQL	BQL	BQL	BQL	0.34	BQL	BQL

Notes:
1. 2L GWQS = North Carolina groundwater quality standard 15A NCAC 2L .0202
2. GCL = Gross Contamination Levels for ground water as defined in "Guidelines for Assessment and Corrective Action" North Carolina Underground Storage Tank Section, effective July 1, 2001
3. All units are in ug/L (Micrograms per Liter)
4. BQL = Below Quantitaion Limits
5. A zero in the 2L GWQS row indicates the 2L Standard is equal to the laboratory detection limit
6. A zero in the GCL row indicates a GCL has not been established
7. Shaded concentrations indicate exceedance of the 2L GWQS
8. Only compounds which were detected are shown on table. All other compounds were BQL
9. Please note, compounds reported in duplicate columns are the result of multiple laboratories submitting EDD data with different nomenclature. Unless BQL appears in both duplicate columns, a detection is present and that concentration is reported numerically.

TABLE 13.4

SITE 645

GROUNDWATER LABORATORY ANALYTICAL RESULTS - JULY 2005 TO DECEMBER 2007

EPA METHOD 625

Contaminant of Concern →		2,4-Dimethylphenol	Bis(2-ethylhexyl)phthalate	Naphthalene	Phenol
Well ID	Date				
2L GWQS		140	2.5	21	300
GCL		140000	2500	15500	335000
UST645-MW01	9/22/2005	BQL	BQL	8.20	BQL
UST645-MW01	1/4/2006	BQL	2.00	BQL	BQL
UST645-MW01	1/16/2006	BQL	BQL	BQL	BQL
UST645-MW01	4/18/2006	BQL	BQL	6.40	BQL
UST645-MW01	7/26/2006	BQL	BQL	11.50	BQL
UST645-MW02	9/22/2005	BQL	BQL	**24.20**	BQL
UST645-MW02	1/5/2006	BQL	BQL	BQL	BQL
UST645-MW02	1/16/2006	BQL	**2.70**	BQL	BQL
UST645-MW02	4/18/2006	BQL	BQL	BQL	BQL
UST645-MW02	7/26/2006	BQL	BQL	BQL	BQL

Notes:
1. 2L GWQS = North Carolina groundwater quality standard 15A NCAC 2L .0202
2. GCL = Gross Contamination Levels for ground water as defined in "Guidelines for Assessment and Corrective Action" North Carolina Underground Storage Tank Section, effective July 1, 2001
3. All units are in ug/L (Micrograms per Liter)
4. BQL = Below Quantitaion Limits
5. A zero in the 2L GWQS row indicates the 2L Standard is equal to the laboratory detection limit
6. A zero in the GCL row indicates a GCL has not been established
7. Shaded concentrations indicate exceedance of the 2L GWQS
8. Only compounds which were detected are shown on table. All other compounds were BQL
9. Please note, compounds reported in duplicate columns are the result of multiple laboratories submitting EDD data with different nomenclature. Unless BQL appears in both duplicate columns, a detection is present and that concentration is reported numerically.

TABLE 13.4

SITE 645

GROUNDWATER LABORATORY ANALYTICAL RESULTS - JULY 2005 TO DECEMBER 2007

EPA METHOD 625

Contaminant of Concern →		2,4-Dimethylphenol	Bis(2-ethylhexyl)phthalate	Naphthalene	Phenol
Well ID	Date				
2L GWQS		140	2.5	21	300
GCL		140000	2500	15500	335000
UST645-MW03	9/22/2005	BQL	BQL	3.20	BQL
UST645-MW03	1/4/2006	BQL	BQL	2.50	BQL
UST645-MW03	1/16/2006	BQL	BQL	6.10	BQL
UST645-MW03	7/25/2006	BQL	BQL	11.00	BQL
UST645-MW04	1/5/2006	BQL	BQL	BQL	BQL
UST645-MW05	1/4/2006	BQL	1.40	BQL	BQL
UST645-MW06	1/5/2006	BQL	1.90	BQL	BQL
UST645-MW08	1/4/2006	BQL	BQL	BQL	BQL

Notes:
1. 2L GWQS = North Carolina groundwater quality standard 15A NCAC 2L .0202
2. GCL = Gross Contamination Levels for ground water as defined in "Guidelines for Assessment and Corrective Action" North Carolina Underground Storage Tank Section, effective July 1, 2001
3. All units are in ug/L (Micrograms per Liter)
4. BQL = Below Quantitaion Limits
5. A zero in the 2L GWQS row indicates the 2L Standard is equal to the laboratory detection limit
6. A zero in the GCL row indicates a GCL has not been established
7. Shaded concentrations indicate exceedance of the 2L GWQS
8. Only compounds which were detected are shown on table. All other compounds were BQL
9. Please note, compounds reported in duplicate columns are the result of multiple laboratories submitting EDD data with different nomenclature. Unless BQL appears in both duplicate columns, a detection is present and that concentration is reported numerically.

TABLE 13.4

SITE 645

GROUNDWATER LABORATORY ANALYTICAL RESULTS - JULY 2005 TO DECEMBER 2007

EPA METHOD 625

Contaminant of Concern →		2,4-Dimethylphenol	Bis(2-ethylhexyl)phthalate	Naphthalene	Phenol
Well ID	Date				
2L GWQS		140	2.5	21	300
GCL		140000	2500	15500	335000
UST645-MW09	9/22/2005	BQL	BQL	BQL	BQL
UST645-MW09	1/5/2006	BQL	BQL	BQL	BQL
UST645-MW09	1/17/2006	BQL	BQL	BQL	BQL
UST645-MW09	4/18/2006	BQL	2.00	BQL	BQL
UST645-MW09	7/25/2006	BQL	BQL	BQL	BQL
UST645-MW10	1/6/2006	BQL	BQL	BQL	BQL
UST645-MW11	1/4/2006	BQL	14.30	BQL	BQL

Notes:
1. 2L GWQS = North Carolina groundwater quality standard 15A NCAC 2L .0202
2. GCL = Gross Contamination Levels for ground water as defined in "Guidelines for Assessment and Corrective Action" North Carolina Underground Storage Tank Section, effective July 1, 2001
3. All units are in ug/L (Micrograms per Liter)
4. BQL = Below Quantitaion Limits
5. A zero in the 2L GWQS row indicates the 2L Standard is equal to the laboratory detection limit
6. A zero in the GCL row indicates a GCL has not been established
7. Shaded concentrations indicate exceedance of the 2L GWQS
8. Only compounds which were detected are shown on table. All other compounds were BQL
9. Please note, compounds reported in duplicate columns are the result of multiple laboratories submitting EDD data with different nomenclature. Unless BQL appears in both duplicate columns, a detection is present and that concentration is reported numerically.

TABLE 13.4

SITE 645

GROUNDWATER LABORATORY ANALYTICAL RESULTS - JULY 2005 TO DECEMBER 2007

EPA METHOD 625

Contaminant of Concern →		2,4-Dimethylphenol	Bis(2-ethylhexyl)phthalate	Naphthalene	Phenol
Well ID	Date				
2L GWQS		140	2.5	21	300
GCL		140000	2500	15500	335000
UST645-MW12	9/22/2005	7.20	BQL	**61.20**	BQL
UST645-MW12	1/4/2006	BQL	BQL	8.60	BQL
UST645-MW12	1/17/2006	BQL	**3.90**	**101.00**	4.70
UST645-MW12	4/18/2006	BQL	BQL	BQL	BQL
UST645-MW12	7/25/2006	BQL	BQL	**26.60**	BQL
UST645-MW13	1/4/2006	BQL	BQL	BQL	BQL
UST645-MW14	1/6/2006	BQL	BQL	BQL	BQL

Notes:
1. 2L GWQS = North Carolina groundwater quality standard 15A NCAC 2L .0202
2. GCL = Gross Contamination Levels for ground water as defined in "Guidelines for Assessment and Corrective Action" North Carolina Underground Storage Tank Section, effective July 1, 2001
3. All units are in ug/L (Micrograms per Liter)
4. BQL = Below Quantitaion Limits
5. A zero in the 2L GWQS row indicates the 2L Standard is equal to the laboratory detection limit
6. A zero in the GCL row indicates a GCL has not been established
7. Shaded concentrations indicate exceedance of the 2L GWQS
8. Only compounds which were detected are shown on table. All other compounds were BQL
9. Please note, compounds reported in duplicate columns are the result of multiple laboratories submitting EDD data with different nomenclature. Unless BQL appears in both duplicate columns, a detection is present and that concentration is reported numerically.

TABLE 13.4

SITE 645

GROUNDWATER LABORATORY ANALYTICAL RESULTS - JULY 2005 TO DECEMBER 2007

EPA METHOD 625

Contaminant of Concern →		2,4-Dimethylphenol	Bis(2-ethylhexyl)phthalate	Naphthalene	Phenol
Well ID	Date				
2L GWQS		140	2.5	21	300
GCL		140000	2500	15500	335000
UST645-MW15	9/22/2005	BQL	BQL	BQL	BQL
UST645-MW15	1/5/2006	BQL	BQL	BQL	BQL
UST645-MW15	1/16/2006	BQL	BQL	BQL	BQL
UST645-MW15	4/18/2006	BQL	BQL	BQL	BQL
UST645-MW15	7/25/2006	BQL	BQL	BQL	BQL
UST645-MW16	1/6/2006	BQL	BQL	BQL	BQL
UST645-MW17	1/5/2006	BQL	2.60	BQL	BQL

Notes:
1. 2L GWQS = North Carolina groundwater quality standard 15A NCAC 2L .0202
2. GCL = Gross Contamination Levels for ground water as defined in "Guidelines for Assessment and Corrective Action" North Carolina Underground Storage Tank Section, effective July 1, 2001
3. All units are in ug/L (Micrograms per Liter)
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5. A zero in the 2L GWQS row indicates the 2L Standard is equal to the laboratory detection limit
6. A zero in the GCL row indicates a GCL has not been established
7. Shaded concentrations indicate exceedance of the 2L GWQS
8. Only compounds which were detected are shown on table. All other compounds were BQL
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TABLE 13.4

SITE 645

GROUNDWATER LABORATORY ANALYTICAL RESULTS - JULY 2005 TO DECEMBER 2007

EPA METHOD 625

Contaminant of Concern →		2,4-Dimethylphenol	Bis(2-ethylhexyl)phthalate	Naphthalene	Phenol
Well ID	Date				
2L GWQS		140	2.5	21	300
GCL		140000	2500	15500	335000
UST645-MW18	9/27/2005	BQL	BQL	4.90	BQL
UST645-MW18	1/5/2006	BQL	4.70	BQL	BQL
UST645-MW18	1/17/2006	BQL	1.90	BQL	BQL
UST645-MW18	4/19/2006	BQL	BQL	BQL	BQL
UST645-MW18	7/26/2006	BQL	BQL	BQL	BQL
UST645-MW18	10/18/2007	BQL	BQL	BQL	BQL
UST645-MW19	1/6/2006	BQL	4.10	BQL	BQL
UST645-MW20	1/6/2006	BQL	BQL	BQL	BQL

Notes:
1. 2L GWQS = North Carolina groundwater quality standard 15A NCAC 2L .0202
2. GCL = Gross Contamination Levels for ground water as defined in "Guidelines for Assessment and Corrective Action" North Carolina Underground Storage Tank Section, effective July 1, 2001
3. All units are in ug/L (Micrograms per Liter)
4. BQL = Below Quantitaion Limits
5. A zero in the 2L GWQS row indicates the 2L Standard is equal to the laboratory detection limit
6. A zero in the GCL row indicates a GCL has not been established
7. Shaded concentrations indicate exceedance of the 2L GWQS
8. Only compounds which were detected are shown on table. All other compounds were BQL
9. Please note, compounds reported in duplicate columns are the result of multiple laboratories submitting EDD data with different nomenclature. Unless BQL appears in both duplicate columns, a detection is present and that concentration is reported numerically.

TABLE 13.4

SITE 645

GROUNDWATER LABORATORY ANALYTICAL RESULTS - JULY 2005 TO DECEMBER 2007

EPA METHOD 625

Contaminant of Concern →		2,4-Dimethylphenol	Bis(2-ethylhexyl)phthalate	Naphthalene	Phenol
Well ID	Date				
2L GWQS		140	2.5	21	300
GCL		140000	2500	15500	335000
UST645-MW21	9/22/2005	BQL	BQL	BQL	BQL
UST645-MW21	1/5/2006	BQL	6.30	BQL	BQL
UST645-MW21	1/16/2006	BQL	BQL	BQL	BQL
UST645-MW21	4/19/2006	BQL	BQL	BQL	BQL
UST645-MW21	7/24/2006	BQL	BQL	BQL	BQL
UST645-MW22	9/27/2005	BQL	BQL	BQL	BQL
UST645-MW22	1/5/2006	BQL	BQL	BQL	BQL
UST645-MW22	1/16/2006	BQL	BQL	BQL	BQL
UST645-MW22	4/18/2006	BQL	BQL	BQL	BQL
UST645-MW22	7/26/2006	BQL	BQL	BQL	BQL

Notes:
1. 2L GWQS = North Carolina groundwater quality standard 15A NCAC 2L .0202
2. GCL = Gross Contamination Levels for ground water as defined in "Guidelines for Assessment and Corrective Action" North Carolina Underground Storage Tank Section, effective July 1, 2001
3. All units are in ug/L (Micrograms per Liter)
4. BQL = Below Quantitaion Limits
5. A zero in the 2L GWQS row indicates the 2L Standard is equal to the laboratory detection limit
6. A zero in the GCL row indicates a GCL has not been established
7. Shaded concentrations indicate exceedance of the 2L GWQS
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TABLE 13.4

SITE 645

GROUNDWATER LABORATORY ANALYTICAL RESULTS - JULY 2005 TO DECEMBER 2007

EPA METHOD 625

Contaminant of Concern →		2,4-Dimethylphenol	Bis(2-ethylhexyl)phthalate	Naphthalene	Phenol
Well ID	Date				
2L GWQS		140	2.5	21	300
GCL		140000	2500	15500	335000
UST645-MW23	9/27/2005	BQL	BQL	BQL	BQL
UST645-MW23	1/5/2006	BQL	1.70	BQL	BQL
UST645-MW23	1/16/2006	BQL	BQL	BQL	BQL
UST645-MW23	4/19/2006	BQL	BQL	BQL	BQL
UST645-MW23	7/25/2006	BQL	BQL	BQL	BQL
UST645-MW24	1/6/2006	BQL	BQL	BQL	BQL
UST645-MW25	1/6/2006	BQL	BQL	BQL	BQL
UST645-MW26	1/6/2006	BQL	BQL	BQL	3.60
UST645-MW26	10/18/2007	BQL	BQL	BQL	20.70

Notes:
1. 2L GWQS = North Carolina groundwater quality standard 15A NCAC 2L .0202
2. GCL = Gross Contamination Levels for ground water as defined in "Guidelines for Assessment and Corrective Action" North Carolina Underground Storage Tank Section, effective July 1, 2001
3. All units are in ug/L (Micrograms per Liter)
4. BQL = Below Quantitaion Limits
5. A zero in the 2L GWQS row indicates the 2L Standard is equal to the laboratory detection limit
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7. Shaded concentrations indicate exceedance of the 2L GWQS
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9. Please note, compounds reported in duplicate columns are the result of multiple laboratories submitting EDD data with different nomenclature. Unless BQL appears in both duplicate columns, a detection is present and that concentration is reported numerically.

TABLE 13.4

SITE 645

GROUNDWATER LABORATORY ANALYTICAL RESULTS - JULY 2005 TO DECEMBER 2007

EPA METHOD 625

Contaminant of Concern →		2,4-Dimethylphenol	Bis(2-ethylhexyl)phthalate	Naphthalene	Phenol
Well ID	Date				
2L GWQS		140	2.5	21	300
GCL		140000	2500	15500	335000
UST645-MW27	1/6/2006	BQL	BQL	BQL	BQL
UST645-MW27	10/18/2007	BQL	BQL	BQL	BQL
UST645-MW28	1/6/2006	BQL	BQL	BQL	BQL
UST645-MW29	1/5/2006	BQL	BQL	BQL	BQL
UST645-MW29	10/18/2007	BQL	BQL	BQL	BQL
UST645-MW30	1/6/2006	BQL	BQL	BQL	BQL
UST645-MW30	10/18/2007	BQL	BQL	BQL	BQL
UST645-MW31	1/5/2006	BQL	BQL	BQL	BQL
UST645-MW32	10/18/2007	BQL	BQL	BQL	BQL

Notes:
1. 2L GWQS = North Carolina groundwater quality standard 15A NCAC 2L .0202
2. GCL = Gross Contamination Levels for ground water as defined in "Guidelines for Assessment and Corrective Action" North Carolina Underground Storage Tank Section, effective July 1, 2001
3. All units are in ug/L (Micrograms per Liter)
4. BQL = Below Quantitaion Limits
5. A zero in the 2L GWQS row indicates the 2L Standard is equal to the laboratory detection limit
6. A zero in the GCL row indicates a GCL has not been established
7. Shaded concentrations indicate exceedance of the 2L GWQS
8. Only compounds which were detected are shown on table. All other compounds were BQL
9. Please note, compounds reported in duplicate columns are the result of multiple laboratories submitting EDD data with different nomenclature. Unless BQL appears in both duplicate columns, a detection is present and that concentration is reported numerically.

TABLE 13.4

SITE 645

GROUNDWATER LABORATORY ANALYTICAL RESULTS - JULY 2005 TO DECEMBER 2007

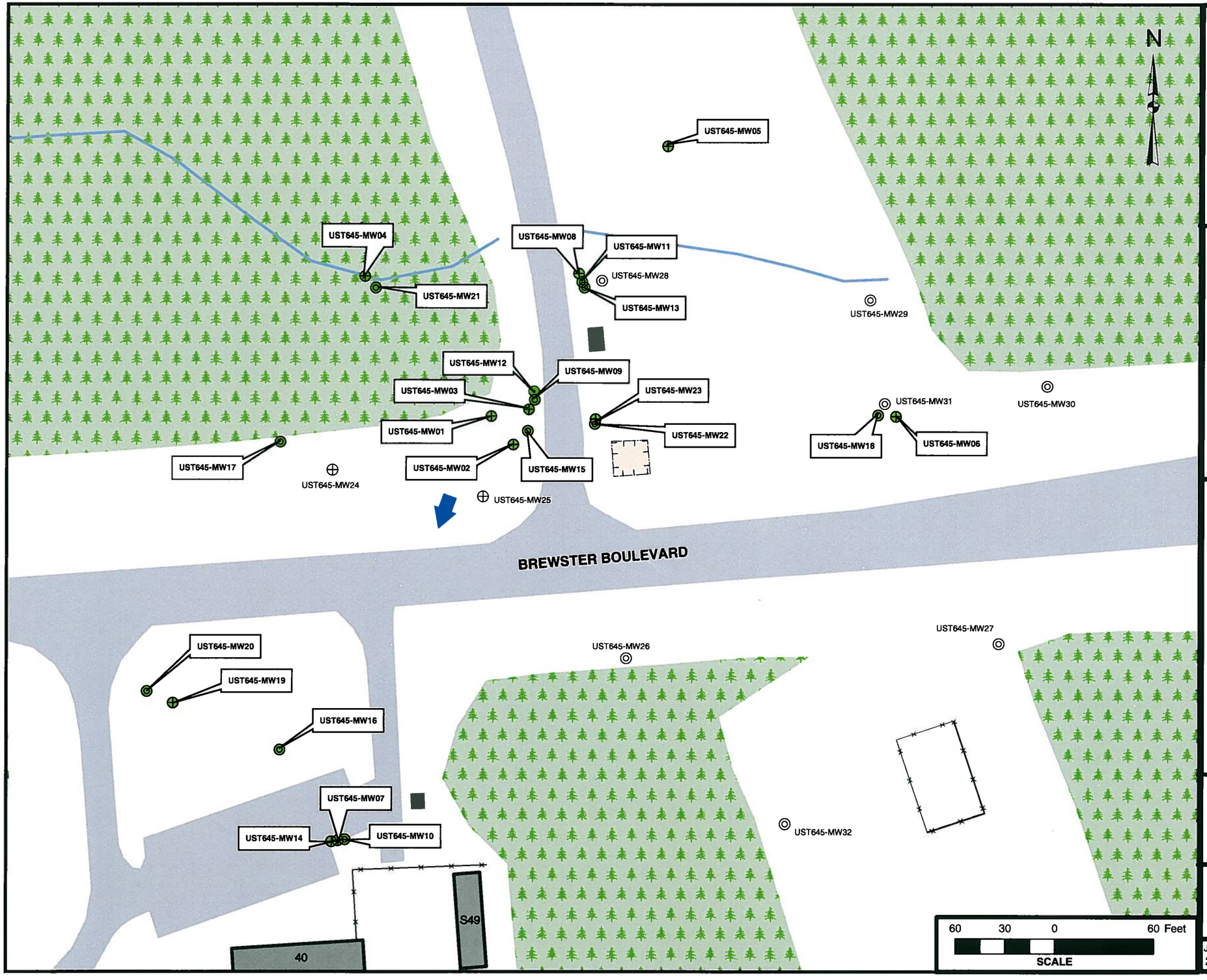
EPA METHOD 625

Contaminant of Concern →		2,4-Dimethylphenol	Bis(2-ethylhexyl)phthalate	Naphthalene	Phenol
Well ID	Date				
2L GWQS		140	2.5	21	300
GCL		140000	2500	15500	335000
UST645-MW33	10/19/2007	BQL	BQL	BQL	BQL
UST645-MW34	10/19/2007	BQL	BQL	BQL	BQL

Notes:
1. 2L GWQS = North Carolina groundwater quality standard 15A NCAC 2L .0202
2. GCL = Gross Contamination Levels for ground water as defined in "Guidelines for Assessment and Corrective Action" North Carolina Underground Storage Tank Section, effective July 1, 2001
3. All units are in ug/L (Micrograms per Liter)
4. BQL = Below Quantitaion Limits
5. A zero in the 2L GWQS row indicates the 2L Standard is equal to the laboratory detection limit
6. A zero in the GCL row indicates a GCL has not been established
7. Shaded concentrations indicate exceedance of the 2L GWQS
8. Only compounds which were detected are shown on table. All other compounds were BQL
9. Please note, compounds reported in duplicate columns are the result of multiple laboratories submitting EDD data with different nomenclature. Unless BQL appears in both duplicate columns, a detection is present and that concentration is reported numerically.

MCB CAMP LEJEUNE
UST MANAGEMENT PROGRAM
CALENDAR YEAR 2007

NAVFAC
Naval Facilities Engineering Command



LEGEND

Monitoring Wells
- Type I
- Type II
- Type III
- Pumping Well
- Unknown Well Type
- Water Supply Wells
- Above Ground Storage Tank
- Underground Storage Tank
- Railroad Tracks

Walls and Fences
- FENCE
- GATE
- WALL

Free Product
- Free Product Detected
- No Measurable Thickness
- Free Product Plume
- Buildings and Structures
- Demolished Structures
- Oil/Water Separators
- Slabs
- Roads
- Driveways
- Parking Lots
- Surface Water Bodies
- Creeks and Streams
- Historical Groundwater Flow Direction

Vegetation Cover
- Forestland
- Scrubland
- Wetland

Airfield Pavement
- HELIPAD
- RAMP
- RUNWAY
- SHLDR_OVERRUN
- TAXIWAY

NOTES

1. Free Product was not detected at this site in any of the wells gauged during this monitoring event.

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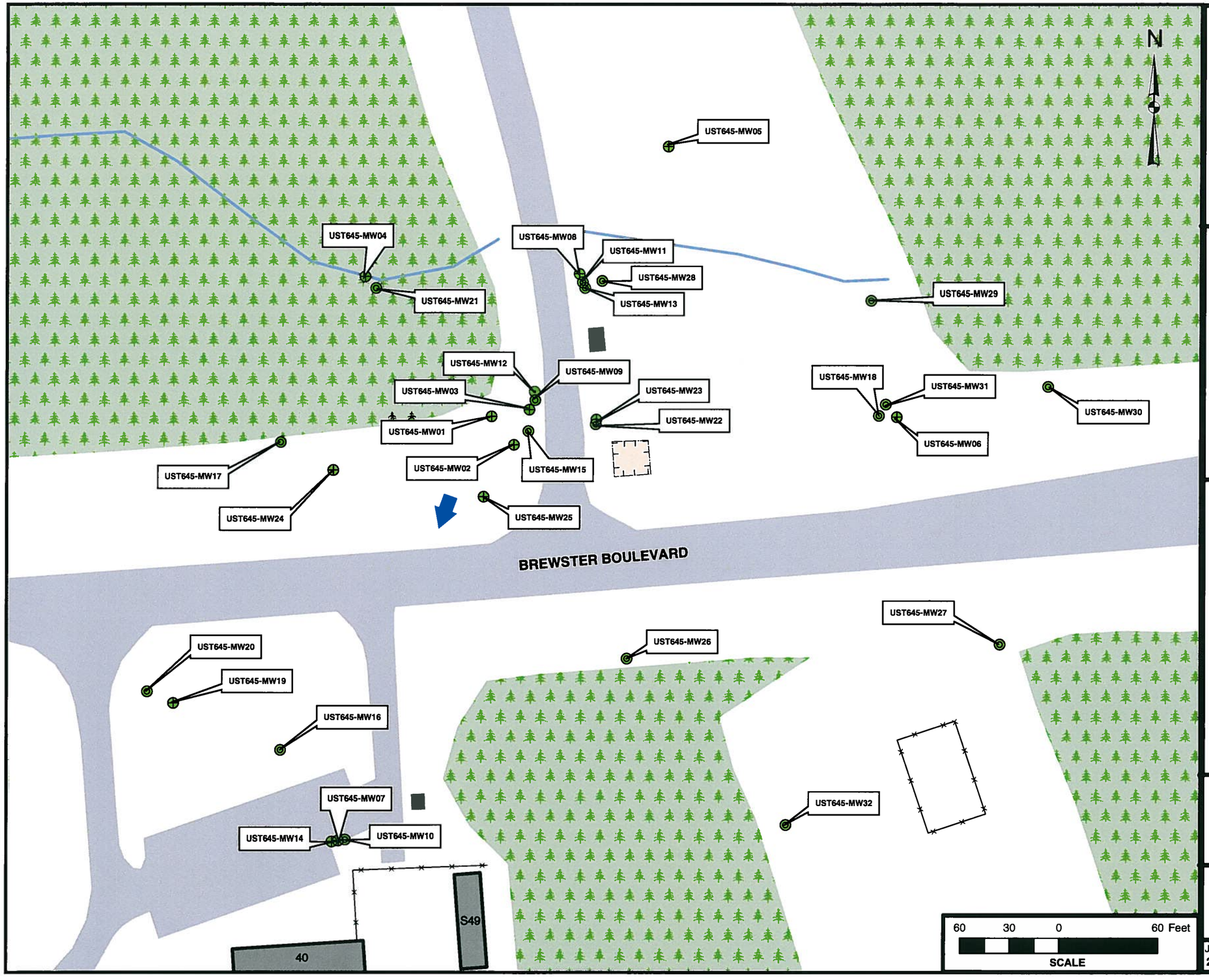
SITE 645
FREE PRODUCT PLUME MAP
THIRD QUARTER 2006

FIGURE
13.1A

Job No.:	Date:	Scale:	Drawn By:	Checked By:
207-002	JAN 2008	AS SHOWN	SAC	MEM

MCB CAMP LEJEUNE
UST MANAGEMENT PROGRAM
CALENDAR YEAR 2007

NAVFAC
Naval Facilities Engineering Command



LEGEND

Monitoring Wells
- Type I
- Type II
- Type III
- Pumping Well
- Unknown Well Type
- Water Supply Wells
- Above Ground Storage Tank
- Underground Storage Tank
- Railroad Tracks

Walls and Fences
- FENCE
- GATE
- WALL

Free Product
- Free Product Detected
- No Measurable Thickness
- Free Product Plume
- Buildings and Structures
- Demolished Structures
- Oil/Water Separators
- Slabs
- Roads
- Driveways
- Parking Lots
- Surface Water Bodies
- Creeks and Streams
- Historical Groundwater Flow Direction

Vegetation Cover
- Forestland
- Scrubland
- Wetland

Airfield Pavement
- HELIPAD
- RAMP
- RUNWAY
- SHLDR_OVERRUN
- TAXIWAY

NOTES

1. Free Product was not detected at this site in any of the wells gauged during this monitoring event.

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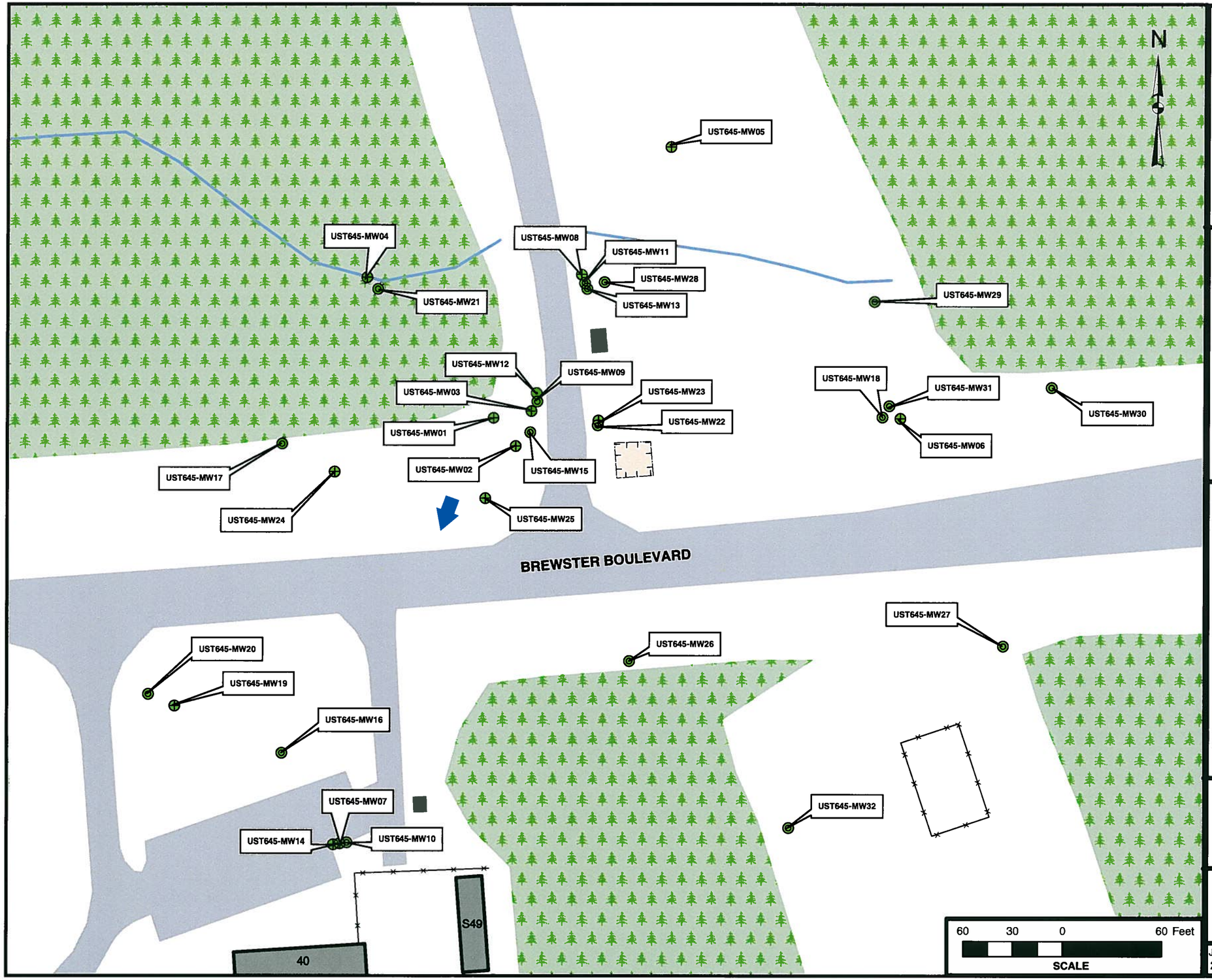
SITE 645
FREE PRODUCT PLUME MAP
FIRST QUARTER 2007

FIGURE **13.1B**

Job No.:	Date:	Scale:	Drawn By:	Checked By:
207-002	JAN 2008	AS SHOWN	SAC	MEM

MCB CAMP LEJEUNE
UST MANAGEMENT PROGRAM
CALENDAR YEAR 2007

NAVFAC
Naval Facilities Engineering Command



LEGEND

Monitoring Wells
- Type I
- Type II
- Type III
- Pumping Well
- Unknown Well Type
- Water Supply Wells
- Above Ground Storage Tank
- Underground Storage Tank
- Railroad Tracks

Walls and Fences
- FENCE
- GATE
- WALL

Free Product
- Free Product Detected
- No Measurable Thickness
- Free Product Plume
- Buildings and Structures
- Demolished Structures
- Oil/Water Separators
- Slabs
- Roads
- Driveways
- Parking Lots
- Surface Water Bodies
- Creeks and Streams
- Historical Groundwater Flow Direction

Vegetation Cover
- Forestland
- Scrubland
- Wetland

Airfield Pavement
- HELIPAD
- RAMP
- RUNWAY
- SHLDR_OVERRUN
- TAXIWAY

NOTES

1. Free Product was not detected at this site in any of the wells gauged during this monitoring event.

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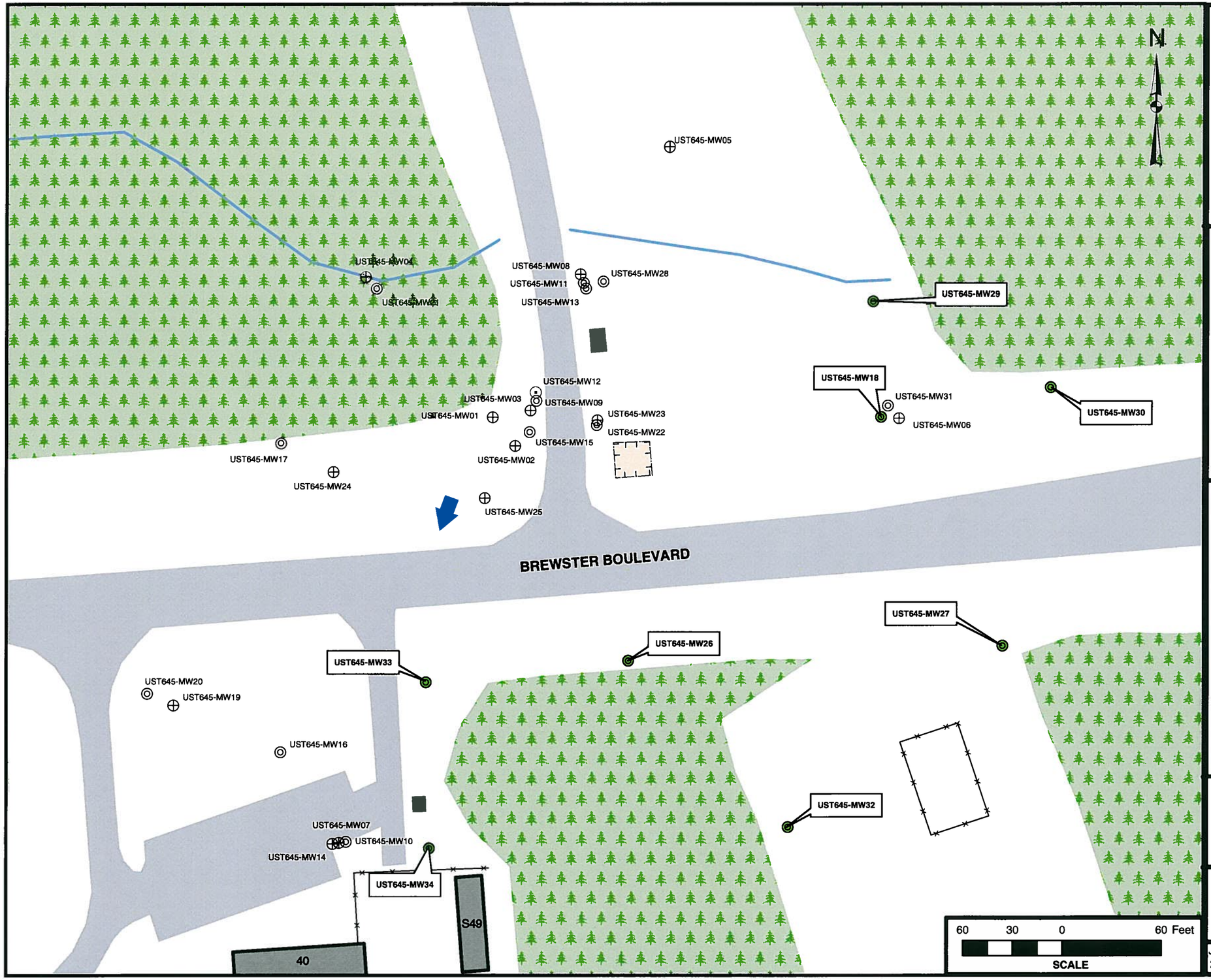
SITE 645
FREE PRODUCT PLUME MAP
THIRD QUARTER 2007

FIGURE **13.1C**

Job No.:	Date:	Scale:	Drawn By:	Checked By:
207-002	JAN 2008	AS SHOWN	SAC	MEM

MCB CAMP LEJEUNE
UST MANAGEMENT PROGRAM
CALENDAR YEAR 2007

NAVFAC
Naval Facilities Engineering Command



LEGEND

Monitoring Wells
- Type I
- Type II
- Type III
- Pumping Well
- Unknown Well Type
- Water Supply Wells
- Above Ground Storage Tank
- Underground Storage Tank
- Railroad Tracks

Walls and Fences
- FENCE
- GATE
- WALL

Free Product
- Free Product Detected
- No Measurable Thickness
- Free Product Plume
- Buildings and Structures
- Demolished Structures
- Oil/Water Separators
- Slabs
- Roads
- Driveways
- Parking Lots
- Surface Water Bodies
- Creeks and Streams
- Historical Groundwater Flow Direction

Vegetation Cover
- Forestland
- Scrubland
- Wetland

Airfield Pavement
- HELIPAD
- RAMP
- RUNWAY
- SHLDR_OVERRUN
- TAXIWAY

NOTES

1. Free Product was not detected at this site in any of the wells gauged during this monitoring event.

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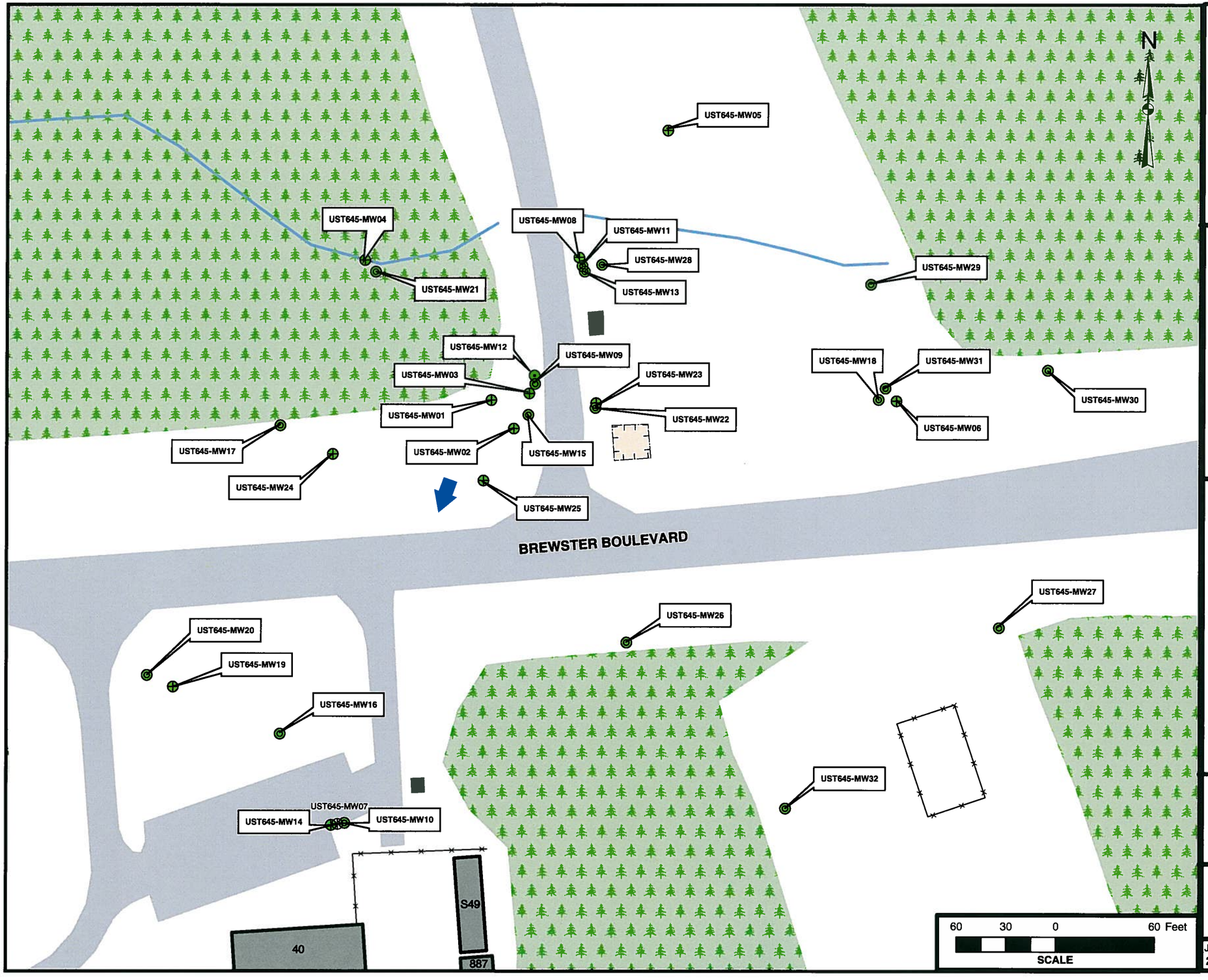
SITE 645
FREE PRODUCT PLUME MAP
FOURTH QUARTER 2007

FIGURE
13.1D

Job No.:	Date:	Scale:	Drawn By:	Checked By:
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MCB CAMP LEJEUNE
UST MANAGEMENT PROGRAM
CALENDAR YEAR 2007

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Naval Facilities Engineering Command



LEGEND

Monitoring Wells
- Type I
- Type II
- Type III
- Pumping Well
- Unknown Well Type
- Water Supply Wells
- Above Ground Storage Tank
- Underground Storage Tank
- Railroad Tracks

Walls and Fences
- FENCE
- GATE
- WALL

Analytical Results
- Free Product Detected
- 2L Non-Compliant
- 2L Compliant
- EPA 601 Plume
- Buildings and Structures
- Demolished Structures
- Oil/Water Separators
- Slabs
- Roads
- Driveways
- Parking Lots
- Surface Water Bodies
- Creeks and Streams
- Historical Groundwater Flow Direction

Vegetation Cover
- Forestland
- Scrubland
- Wetland

Airfield Pavement
- HELIPAD
- RAMP
- RUNWAY
- SHLDR_OVERRUN
- TAXIWAY

NOTES

1. No EPA Method 601 compounds were detected above the 2L GWQS for any of the wells sampled during this monitoring event.

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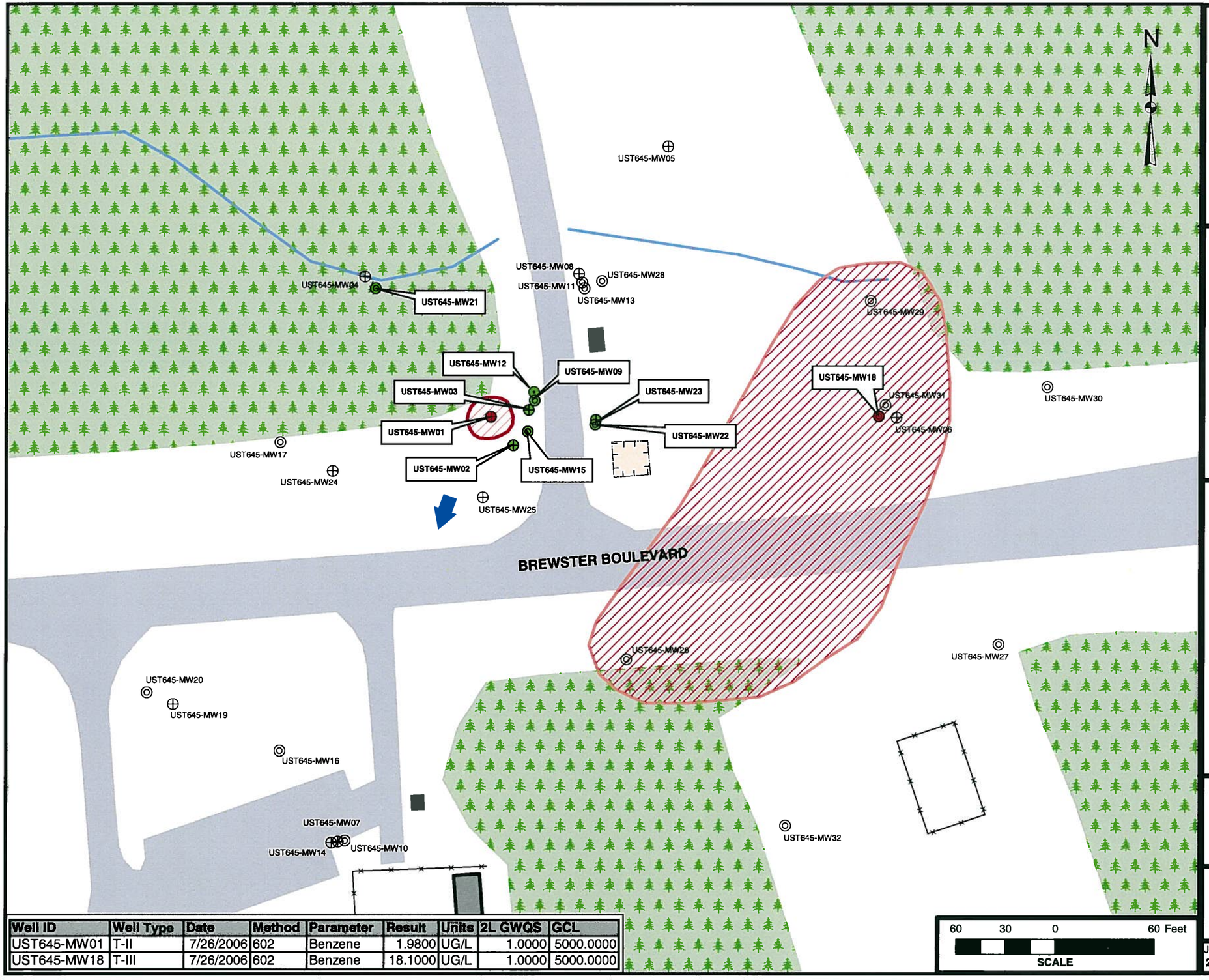
SITE 645
EPA METHOD 601 COLORIMETRY AND PLUME IN EXCESS OF 2L THIRD QUARTER 2007

FIGURE **13.2**

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UST MANAGEMENT PROGRAM
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LEGEND

Monitoring Wells
- Type I
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- Water Supply Wells
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- Underground Storage Tank
- Railroad Tracks

Walls and Fences
- FENCE
- GATE
- WALL

Analytical Results
- Free Product Detected
- 2L Non-Compliant
- 2L Compliant
- Shallow EPA 602 Plume (Less than 50' BLS)
- Deep EPA 602 Plume (Greater than 50' BLS)
- Buildings and Structures
- Demolished Structures
- Oil/Water Separators
- Slabs
- Roads
- Driveways
- Parking Lots
- Surface Water Bodies
- Creeks and Streams
- Historical Groundwater Flow Direction

Vegetation Cover
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Airfield Pavement
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- RAMP
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- SHLDR_OVERRUN
- TAXIWAY

NOTES

1. 2L Standard refers to North Carolina Groundwater Quality Standard 15A NCAC 2L.0202.
2. GCL refers to Gross Contaminant Level as defined in "Guidelines for the Assessment and Corrective Action" North Carolina Underground Storage Tank Section, effective July 1, 2001.
3. A 2L Standard of "0.00" implies a standard has not yet been established. According to NCAC T15:02L, any compound found above laboratory detection limits is considered noncompliant unless otherwise specified by the NCDENR.
4. The extent of the deep EPA Method 602 plume is based on the analtyical data from January 2006 and the July 2006 analytical data.

Well ID	Well Type	Date	Method	Parameter	Result	Units	2L GWQS	GCL
UST645-MW01	T-II	7/26/2006	602	Benzene	1.9800	UG/L	1.0000	5000.0000
UST645-MW18	T-III	7/26/2006	602	Benzene	18.1000	UG/L	1.0000	5000.0000

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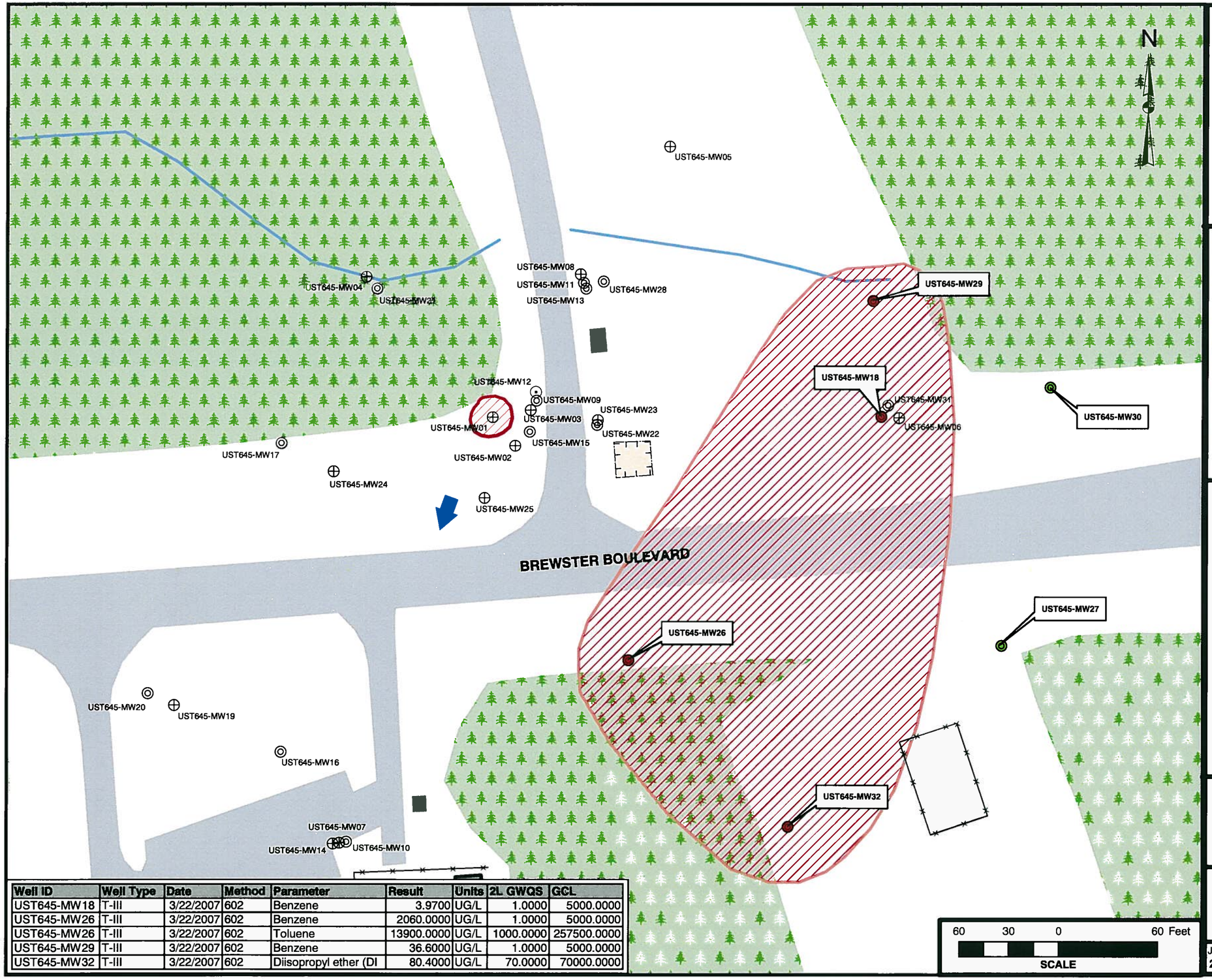
SITE 645
EPA METHOD 602 COLORIMETRY AND PLUME IN EXCESS OF 2L THIRD QUARTER 2006

FIGURE **13.3A**

Job No.:	Date:	Scale:	Drawn By:	Checked By:
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UST MANAGEMENT PROGRAM
CALENDAR YEAR 2007

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LEGEND

Monitoring Wells
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Walls and Fences
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- WALL

Analytical Results
- Free Product Detected
- 2L Non-Compliant
- 2L Compliant
- Shallow EPA 602 Plume (Less than 50' BLS)
- Deep EPA 602 Plume (Greater than 50' BLS)
- Buildings and Structures
- Demolished Structures
- Oil/Water Separators
- Slabs
- Roads
- Driveways
- Parking Lots
- Surface Water Bodies
- Creeks and Streams
- Historical Groundwater Flow Direction

Vegetation Cover
- Forestland
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Airfield Pavement
- HELIPAD
- RAMP
- RUNWAY
- SHLDR_OVERRUN
- TAXIWAY

NOTES

1. 2L Standard refers to North Carolina Groundwater Quality Standard 15A NCAC 2L.0202.
2. GCL refers to Gross Contaminant Level as defined in "Guidelines for the Assessment and Corrective Action" North Carolina Underground Storage Tank Section, effective July 1, 2001.
3. A 2L Standard of "0.00" implies a standard has not yet been established. According to NCAC T15:02L, any compound found above laboratory detection limits is considered noncompliant unless otherwise specified by the NCDENR.
4. The extent of the shallow EPA Method 602 plume is based on the analytical data from July 2006.

Well ID	Well Type	Date	Method	Parameter	Result	Units	2L GWQS	GCL
UST645-MW18	T-III	3/22/2007	602	Benzene	3.9700	UG/L	1.0000	5000.0000
UST645-MW26	T-III	3/22/2007	602	Benzene	2060.0000	UG/L	1.0000	5000.0000
UST645-MW26	T-III	3/22/2007	602	Toluene	13900.0000	UG/L	1000.0000	257500.0000
UST645-MW29	T-III	3/22/2007	602	Benzene	36.6000	UG/L	1.0000	5000.0000
UST645-MW32	T-III	3/22/2007	602	Diisopropyl ether (DI	80.4000	UG/L	70.0000	70000.0000

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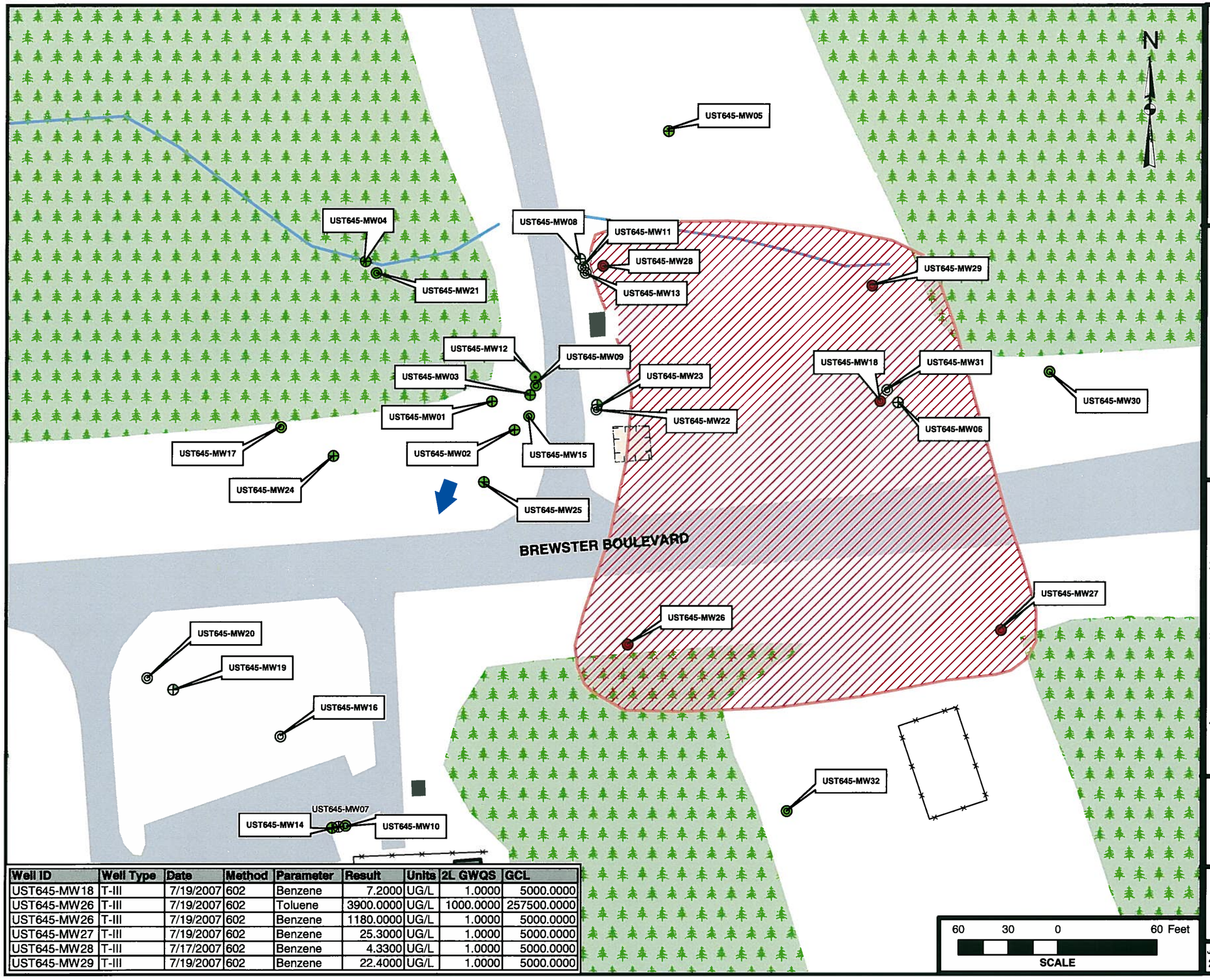
SITE 645
EPA METHOD 602 COLORIMETRY AND PLUME IN EXCESS OF 2L FIRST QUARTER 2007

FIGURE **13.3B**

Job No.:	Date:	Scale:	Drawn By:	Checked By:
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UST MANAGEMENT PROGRAM
CALENDAR YEAR 2007

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LEGEND

Monitoring Wells
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- Type III
- Pumping Well
- Unknown Well Type
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- Underground Storage Tank
- Railroad Tracks

Walls and Fences
- FENCE
- GATE
- WALL

Analytical Results
- Free Product Detected
- 2L Non-Compliant
- 2L Compliant
- Shallow EPA 602 Plume (Less than 50' BLS)
- Deep EPA 602 Plume (Greater than 50' BLS)
- Buildings and Structures
- Demolished Structures
- Oil/Water Separators
- Slabs
- Roads
- Driveways
- Parking Lots
- Surface Water Bodies
- Creeks and Streams
- Historical Groundwater Flow Direction

Vegetation Cover
- Forestland
- Scrubland
- Wetland

Airfield Pavement
- HELIPAD
- RAMP
- RUNWAY
- SHLDR_OVERRUN
- TAXIWAY

NOTES

1. 2L Standard refers to North Carolina Groundwater Quality Standard 15A NCAC 2L.0202.
2. GCL refers to Gross Contaminant Level as defined in "Guidelines for the Assessment and Corrective Action" North Carolina Underground Storage Tank Section, effective July 1, 2001.
3. A 2L Standard of "0.00" implies a standard has not yet been established. According to NCAC T15:02L, any compound found above laboratory detection limits is considered noncompliant unless otherwise specified by the NCDENR.
4. EPA Method 602 contaminants were not detected above the 2L GWQSs in any of the shallow (<50') monitoring wells or the deep monitorng well UST645-MW31(screened at approximately 100' BLS).

Well ID	Well Type	Date	Method	Parameter	Result	Units	2L GWQS	GCL
UST645-MW18	T-III	7/19/2007	602	Benzene	7.2000	UG/L	1.0000	5000.0000
UST645-MW26	T-III	7/19/2007	602	Toluene	3900.0000	UG/L	1000.0000	257500.0000
UST645-MW26	T-III	7/19/2007	602	Benzene	1180.0000	UG/L	1.0000	5000.0000
UST645-MW27	T-III	7/19/2007	602	Benzene	25.3000	UG/L	1.0000	5000.0000
UST645-MW28	T-III	7/17/2007	602	Benzene	4.3300	UG/L	1.0000	5000.0000
UST645-MW29	T-III	7/19/2007	602	Benzene	22.4000	UG/L	1.0000	5000.0000

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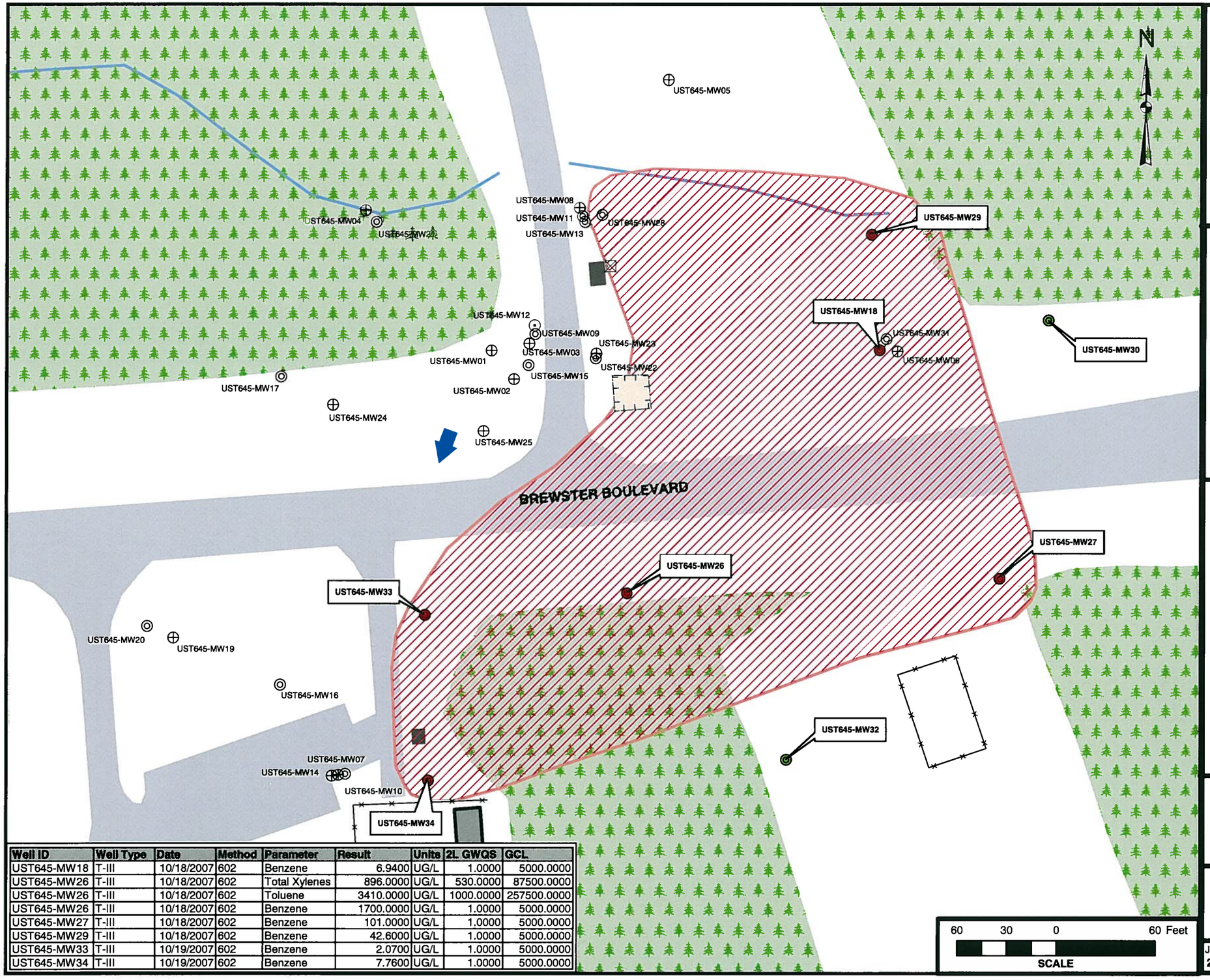
SITE 645
EPA METHOD 602 COLORIMETRY AND PLUME IN EXCESS OF 2L THIRD QUARTER 2007

FIGURE **13.3C**

Job No.:	Date:	Scale:	Drawn By:	Checked By:
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MCB CAMP LEJEUNE
UST MANAGEMENT PROGRAM
CALENDAR YEAR 2007

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Naval Facilities Engineering Command



LEGEND

Monitoring Wells
- Type I
- Type II
- Type III
- Pumping Well
- Unknown Well Type
- Water Supply Wells
- Above Ground Storage Tank
- Underground Storage Tank
- Railroad Tracks

Walls and Fences
- FENCE
- GATE
- WALL

Analytical Results
- Free Product Detected
- 2L Non-Compliant
- 2L Compliant
- Shallow EPA 602 Plume (Less than 50' BLS)
- Deep EPA 602 Plume (Greater than 50' BLS)
- Buildings and Structures
- Demolished Structures
- Oil/Water Separators
- Slabs
- Roads
- Driveways
- Parking Lots
- Surface Water Bodies
- Creeks and Streams
- Historical Groundwater Flow Direction

Vegetation Cover
- Forestland
- Scrubland
- Wetland

Airfield Pavement
- HELIPAD
- RAMP
- RUNWAY
- SHLDR_OVERRUN
- TAXIWAY

NOTES

1. EPA Method 602 plume boundary based on July 2007 and current (October 2007) analytical results.
2. 2L Standard refers to North Carolina Groundwater Quality Standard 15A NCAC 2L.0202.
3. GCL refers to Gross Contaminant Level as defined in "Guidelines for the Assessment and Corrective Action" North Carolina Underground Storage Tank Section, effective July 1, 2001.
4. A 2L Standard of "0.00" implies a standard has not yet been established. According to NCAC T15:02L, any compound found above laboratory detection limits is considered noncompliant unless otherwise specified by the NCDENR.

Well ID	Well Type	Date	Method	Parameter	Result	Units	2L GWQS	GCL
UST645-MW18	T-III	10/18/2007	602	Benzene	6.9400	UG/L	1.0000	5000.0000
UST645-MW26	T-III	10/18/2007	602	Total Xylenes	896.0000	UG/L	530.0000	87500.0000
UST645-MW26	T-III	10/18/2007	602	Toluene	3410.0000	UG/L	1000.0000	257500.0000
UST645-MW26	T-III	10/18/2007	602	Benzene	1700.0000	UG/L	1.0000	5000.0000
UST645-MW27	T-III	10/18/2007	602	Benzene	101.0000	UG/L	1.0000	5000.0000
UST645-MW29	T-III	10/18/2007	602	Benzene	42.6000	UG/L	1.0000	5000.0000
UST645-MW33	T-III	10/19/2007	602	Benzene	2.0700	UG/L	1.0000	5000.0000
UST645-MW34	T-III	10/19/2007	602	Benzene	7.7600	UG/L	1.0000	5000.0000

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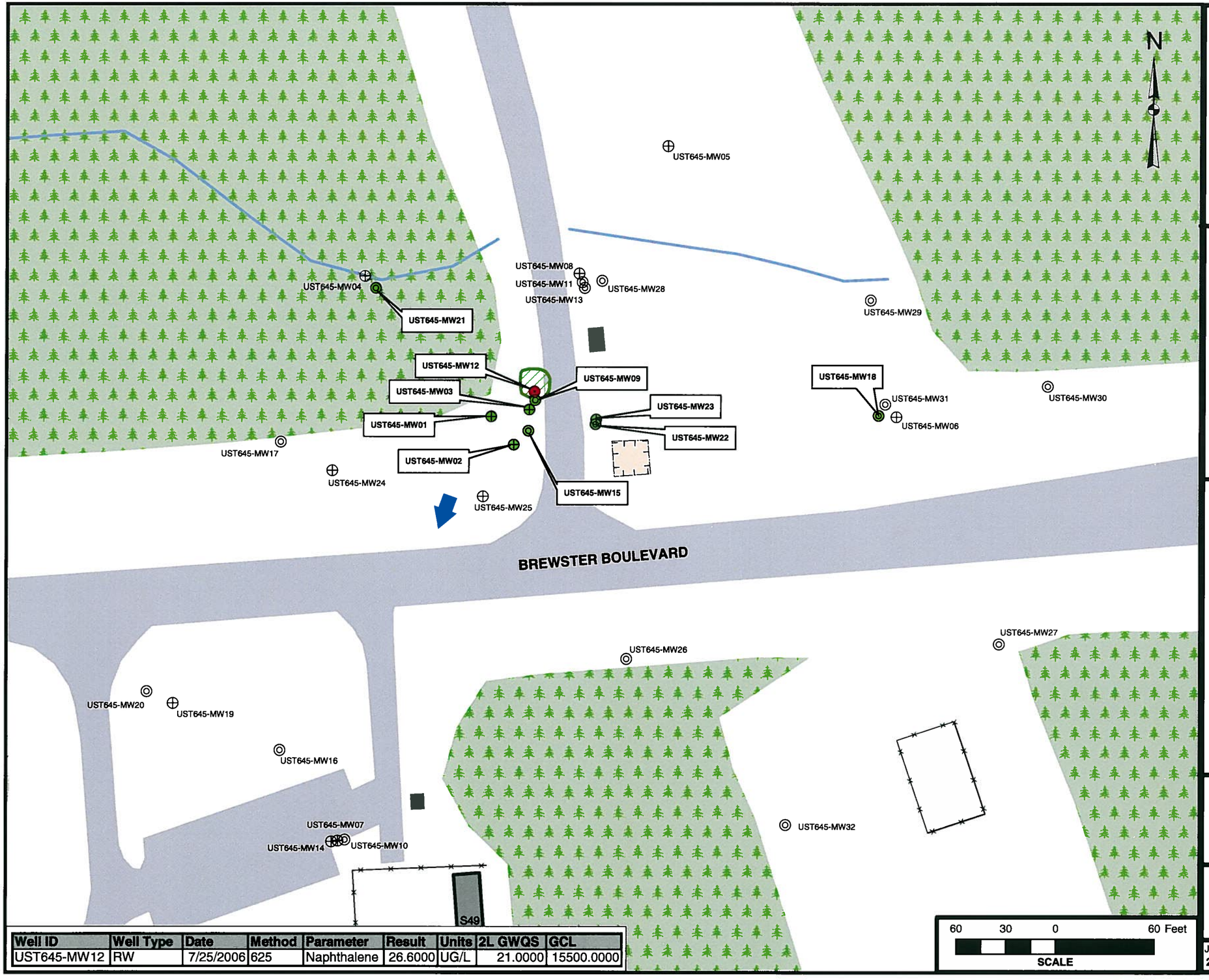
SITE 645
EPA METHOD 602 COLORIMETRY AND PLUME IN EXCESS OF 2L FOURTH QUARTER 2007

FIGURE
13.3D

Job No.:	Date:	Scale:	Drawn By:	Checked By:
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MCB CAMP LEJEUNE
UST MANAGEMENT PROGRAM
CALENDAR YEAR 2007

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Naval Facilities Engineering Command



LEGEND

Monitoring Wells
- Type I
- Type II
- Type III
- Pumping Well
- Unknown Well Type
- Water Supply Wells
- Above Ground Storage Tank
- Underground Storage Tank
- Railroad Tracks

Walls and Fences
- FENCE
- GATE
- WALL

Analytical Results
- Free Product Detected
- 2L Non-Compliant
- 2L Compliant
- EPA 625 Plume
- Buildings and Structures
- Demolished Structures
- Oil/Water Separators
- Slabs
- Roads
- Driveways
- Parking Lots
- Surface Water Bodies
- Creeks and Streams
- Historical Groundwater Flow Direction

Vegetation Cover
- Forestland
- Scrubland
- Wetland

Airfield Pavement
- HELIPAD
- RAMP
- RUNWAY
- SHLDR_OVERRUN
- TAXIWAY

NOTES

1. 2L Standard refers to North Carolina Groundwater Quality Standard 15A NCAC 2L.0202.
2. GCL refers to Gross Contaminant Level as defined in "Guidelines for the Assessment and Corrective Action" North Carolina Underground Storage Tank Section, effective July 1, 2001.
3. A 2L Standard of "0.00" implies a standard has not yet been established. According to NCAC T15:02L, any compound found above laboratory detection limits is considered noncompliant unless otherwise specified by the NCDENR.

Well ID	Well Type	Date	Method	Parameter	Result	Units	2L GWQS	GCL
UST645-MW12	RW	7/25/2006	625	Naphthalene	26.6000	UG/L	21.0000	15500.0000

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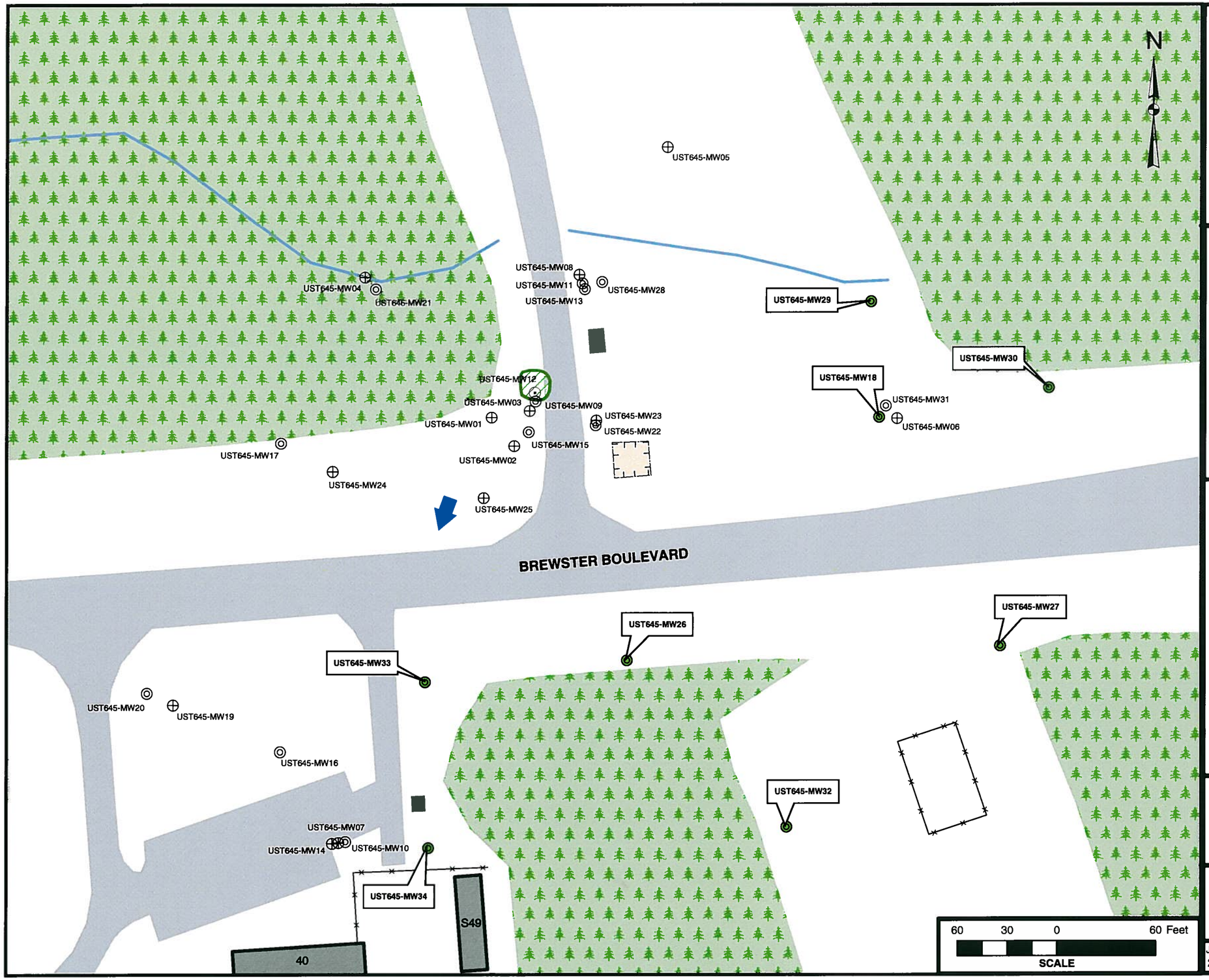
SITE 645
EPA METHOD 625 COLORIMETRY AND PLUME IN EXCESS OF 2L THIRD QUARTER 2006

FIGURE **13.4A**

Job No.:	Date:	Scale:	Drawn By:	Checked By:
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MCB CAMP LEJEUNE
UST MANAGEMENT PROGRAM
CALENDAR YEAR 2007

NAVFAC
Naval Facilities Engineering Command



LEGEND

Monitoring Wells
- Type I
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- Type III
- Pumping Well
- Unknown Well Type
- Water Supply Wells
- Above Ground Storage Tank
- Underground Storage Tank
- Railroad Tracks

Walls and Fences
- FENCE
- GATE
- WALL

Analytical Results
- Free Product Detected
- 2L Non-Compliant
- 2L Compliant
- EPA 625 Plume
- Buildings and Structures
- Demolished Structures
- Oil/Water Separators
- Slabs
- Roads
- Driveways
- Parking Lots
- Surface Water Bodies
- Creeks and Streams
- Historical Groundwater Flow Direction

Vegetation Cover
- Forestland
- Scrubland
- Wetland

Airfield Pavement
- HELIPAD
- RAMP
- RUNWAY
- SHLDR_OVERRUN
- TAXIWAY

NOTES

1. No EPA Method 625 compounds were detected above the 2L GWQS for any of the wells sampled during this monitoring event.
2. EPA Method 625 plume boundary based on historical analytical results from July 2006.

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SITE 645
EPA METHOD 625 COLORIMETRY AND PLUME IN EXCESS OF 2L FOURTH QUARTER 2007

FIGURE **13.4B**

Job No.:	Date:	Scale:	Drawn By:	Checked By:
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SECTION 14.0

OF THE

ANNUAL MANAGEMENT REPORT
MCB CAMP LEJEUNE UST MANAGEMENT PROGRAM

MONITORING EVENT:

YEAR 2007
(JANUARY – DECEMBER 2007)

SITE-SPECIFIC MONITORING REPORT
FOR

SITE 820

NCDENR INCIDENT NO. 23135

14.0 EXECUTIVE SUMMARY
SITE 820

14.1 Site Information

14.1.1 Site Location: MCB Camp Lejeune, Berkeley Manor
14.1.2 Incident Number(s): 23135
14.1.3 UTM Coordinates (WGS84) (Meters): 284380.73 Easting, 3842272.13 Northing
14.1.4 Risk Classification: Intermediate
14.1.5 Land Use Classification: Residential
14.1.6 Source Type(s): Gasoline, Diesel Fuel

14.2 Monitoring Event Information

14.2.1 Sampling Performed By: Shaw
14.2.2 Date(s) of This Monitoring Event: October 2006, January 2007 (Two wells only) and October 2007
14.2.3 Date(s) of Previous Monitoring Event: August 2005 and February 2006
14.2.4 Reason(s) for This Monitoring Event: Track migration and attenuation of dissolved-phase plume.
14.2.5 Site Monitoring Status at Time of This Event: Annual sampling of approximately 35 on-site monitoring wells per EPA Methods 602, 625 and 6010B.

14.3 Groundwater Hydraulics

14.3.1 Hydraulic Conductivity: Unknown
14.3.2 Effective Porosity: Unknown
14.3.3 Hydraulic Gradient: Unknown
14.3.4 Average Linear Groundwater Flow Velocity: Unknown
14.3.5 Groundwater Flow Direction: Shallow flow is to the South, Deep to the North/Northwest
14.3.6 Range of Measured Water Table Elevations: See Table 14.1
14.3.7 Significant Changes from Previously Reported Data: None

14.4 Free Product Plume

14.4.1 Free Product Present?: No
14.4.2 Free Product Thickness Measured: Not Applicable
14.4.3 Plume Size and Location: Not Applicable
14.4.4 Free Product Removed from Site This Period: Not Applicable
14.4.5 Significant Changes from Previously Reported Data: None. See Figures 14.1A and 14.1B

14.5 Dissolved-Phase Plume

14.5.1 Plume Concentrations: See Tables 14.2 through 14.4

14.5.2 Plume Size and Location: See Figures 14.2A through 14.4B

14.5.3 Significant Changes from Previously Reported Data: The current groundwater sample analytical results as compared to the previous analytical results (January 2006) are discussed as follows:

EPA Method 602

Shallow Aquifer (Less than 40 feet BLS)
During the January 2006 sampling event, Benzene concentrations were detected above the 2L GWQS in the UST820-MW04, UST820-MW13, UST820-MW24, UST820-MW25, and UST820-MW26 groundwater samples. During the current sampling events, no EPA Method 602 compounds were detected at concentrations in excess of the 2L GWQSs from these monitoring wells.

Deep Aquifer (Greater than 40 feet BLS)
During the January 2006 sampling event, no EPA Method 602 contaminants were detected at concentrations above the 2L GWQSs in monitoring well UST820-MW09D (screened at approximately 100 feet BLS). However, during the October 2007 monitoring event Benzene was detected at a concentration of 1.2 ug/L which is slightly above the 2L GWQS of 1 ug/L for this compound. See Figures 14.2A and 14.2B.

EPA Method 625

Shallow Aquifer (Less than 40 feet BLS)
During the January 2006 sampling event, EPA Method 625 compound concentrations were detected above the 2L GWQS in the UST820-MW05 and UST820-MW13 groundwater samples. During the current sampling events, no EPA Method 602 compounds were detected at concentrations in excess of the 2L GWQSs from these monitoring wells.

Deep Aquifer (Greater than 40 feet BLS)
There were no significant changes from the previously reported data. See Figures 14.3A and 14.3B.

EPA Method 6010B

During the previous monitoring event, Lead was detected at concentrations above the 2L GWQS in monitoring well UST820-MW24. During the current monitoring events no EPA Method 6010B compounds were detected above the 2L GWQSs. See Figures 14.4A and 14.4B.

14.6 Potential Receptors

14.6.1 Contaminated Water Supply Well(s)?: None
14.6.2 Potable Water Supply Well Within 1,000 Feet of Source Area?: No
14.6.3 Any Water Supply Well Within 250 Feet of Source Area?: No
14.6.4 Surface Water Body Within 500 Feet?: No
14.6.5 Past Evidence of Vapors?: No
14.6.6 Significant Changes from Previously Reported Data?: None

14.7 Remediation

14.7.1 Status: 48 vertical AS wells set to 50 feet BLS, and 48 SVE wells set to 10 feet BLS in continuous operation (except downtime for maintenance) since October 1997. Half of the remediation system is shutdown as contaminant concentrations have decreased to below the 2L GWQSs in this area.
14.7.2 Type: AS/SVE
14.7.3 Progress: System has been effective on shallow contamination
14.7.4 Construction Contractor: OHM (now Shaw)
14.7.5 Operating Contractor: Shaw

14.8 Observations and Comments

A portion of the AS/SVE system has been shut down as stated above. The active portion of AS/SVE system is to remain active and natural attenuation of the deep contamination is currently being evaluated as a remediation alternative. However, Benzene concentrations should continue to be tracked in monitoring well UST820-MW09D, as this is a well screened approximately 100 feet BLS.

CATLIN recommends continuing the current monitoring schedule of annual sampling of 35 wells per EPA Methods 602, 625 + TICs and EPA Method 6010B (Lead Only). See the figure in Appendix A for the proposed monitoring schedule.

TABLE 14.1
SITE 820
FIELD MEASUREMENTS - JULY 2005 TO DECEMBER 2007

Well No.	Type	TOC	Date	DTW	Product Thickness	Corrected GWT Elevation
UST820-MW02	T-II	32.26	8/6/2005	14.45	0.00	17.81
UST820-MW02	T-II	32.26	2/1/2006	11.10	0.00	21.16
UST820-MW02	T-II	32.26	10/13/2006	11.83	0.00	20.43
UST820-MW02	T-II	32.26	10/23/2007	16.46	0.00	15.80
UST820-MW03	T-II	32.41	8/8/2005	14.63	0.00	17.78
UST820-MW03	T-II	32.41	2/2/2006	11.18	0.00	21.23
UST820-MW03	T-II	32.41	10/13/2006	12.02	0.00	20.39
UST820-MW03	T-II	32.41	10/17/2007	16.42	0.00	15.99
UST820-MW04	T-II	32.86	8/10/2005	14.62	0.00	18.24
UST820-MW04	T-II	32.86	2/5/2006	11.20	0.00	21.66
UST820-MW04	T-II	32.86	10/12/2006	12.15	0.00	20.71
UST820-MW04	T-II	32.86	10/18/2007	16.38	0.00	16.48
UST820-MW05	T-II	29.92	8/6/2005	11.38	0.00	18.54
UST820-MW05	T-II	29.92	2/5/2006	7.71	0.00	22.21
UST820-MW05	T-II	29.92	10/12/2006	8.57	0.00	21.35
UST820-MW05	T-II	29.92	10/18/2007	13.07	0.00	16.85
UST820-MW06	T-II	31.74	8/8/2005	15.20	0.00	16.54
UST820-MW06	T-II	31.74	2/2/2006	11.62	0.00	20.12
UST820-MW06	T-II	31.74	10/14/2006	12.56	0.00	19.18
UST820-MW06	T-II	31.74	10/21/2007	16.77	0.00	14.97
UST820-MW07	T-III	26.86	8/9/2005	12.72	0.00	14.14
UST820-MW07	T-III	26.86	2/3/2006	9.68	0.00	17.18
UST820-MW07	T-III	26.86	10/16/2006	10.46	0.00	16.40
UST820-MW07	T-III	26.86	10/24/2007	14.81	0.00	12.05

Notes:
1. T-II = Type II monitoring well
   T-III = Type III monitoring well
   RW = Recovery well
2. TOC = Top of casing elevation in feet relative to Mean Sea Level.
3. DTW = Depth to water (in feet) from top of well casing.
4. Product thickness is measured in feet.
5. GWT = Groundwater Table
6. A zero ("0.00") in the product thickness column indicates no measureable thickness.
7. GWT Elevation corrected for measurable free product, if present.

Well No.	Type	TOC	Date	DTW	Product Thickness	Corrected GWT Elevation
UST820-MW08	T-II	26.79	8/9/2005	13.62	0.00	13.17
UST820-MW08	T-II	26.79	2/3/2006	10.61	0.00	16.18
UST820-MW08	T-II	26.79	10/16/2006	11.41	0.00	15.38
UST820-MW08	T-II	26.79	10/24/2007	15.72	0.00	11.07
UST820-MW09	T-III	31.20	8/6/2005	18.81	0.00	12.39
UST820-MW09	T-III	31.20	2/1/2006	11.40	0.00	19.80
UST820-MW09	T-III	31.20	1/3/2007	11.40	0.00	19.80
UST820-MW09	T-III	31.20	10/23/2007	19.78	0.00	11.42
UST820-MW09D	T-III	32.52	8/6/2005	20.90	0.00	11.62
UST820-MW09D	T-III	32.52	2/1/2006	16.24	0.00	16.28
UST820-MW09D	T-III	32.52	10/14/2006	17.42	0.00	15.10
UST820-MW09D	T-III	32.52	10/21/2007	20.57	0.00	11.95
UST820-MW10	T-II	31.37	2/2/2006	8.86	0.00	22.51
UST820-MW10	T-II	31.37	10/17/2006	9.57	0.00	21.80
UST820-MW11	T-II	29.12	8/10/2005	10.58	0.00	18.54
UST820-MW11	T-II	29.12	2/4/2006	7.16	0.00	21.96
UST820-MW11	T-II	29.12	10/17/2006	7.92	0.00	21.20
UST820-MW11	T-II	29.12	10/18/2007	12.21	0.00	16.91
UST820-MW12	T-II	31.49	8/8/2005	14.21	0.00	17.28
UST820-MW12	T-II	31.49	2/2/2006	11.64	0.00	19.85
UST820-MW12	T-II	31.49	10/13/2006	11.63	0.00	19.86
UST820-MW12	T-II	31.49	10/18/2007	15.75	0.00	15.74
UST820-MW13	T-II	28.79	8/6/2005	13.35	0.00	15.44
UST820-MW13	T-II	28.79	2/2/2006	9.01	0.00	19.78
UST820-MW13	T-II	28.79	10/13/2006	9.87	0.00	18.92
UST820-MW13	T-II	28.79	10/18/2007	14.10	0.00	14.69
UST820-MW14	T-II	31.64	8/9/2005	13.75	0.00	17.89
UST820-MW14	T-II	31.64	2/3/2006	11.80	0.00	19.84
UST820-MW14	T-II	31.64	10/16/2006	12.56	0.00	19.08

Notes:
1. T-II = Type II monitoring well
   T-III = Type III monitoring well
   RW = Recovery well
2. TOC = Top of casing elevation in feet relative to Mean Sea Level.
3. DTW = Depth to water (in feet) from top of well casing.
4. Product thickness is measured in feet.
5. GWT = Groundwater Table
6. A zero ("0.00") in the product thickness column indicates no measureable thickness.
7. GWT Elevation corrected for measurable free product, if present.

Well No.	Type	TOC	Date	DTW	Product Thickness	Corrected GWT Elevation
UST820-MW14	T-II	31.64	10/19/2007	16.92	0.00	14.72
UST820-MW15	T-II	29.88	8/6/2005	10.36	0.00	19.52
UST820-MW15	T-II	29.88	2/2/2006	7.10	0.00	22.78
UST820-MW15	T-II	29.88	10/12/2006	14.28	0.00	15.60
UST820-MW15	T-II	29.88	10/15/2007	12.73	0.00	17.15
UST820-MW16	T-II	31.85	8/8/2005	13.29	0.00	18.56
UST820-MW16	T-II	31.85	2/2/2006	9.08	0.00	22.77
UST820-MW16	T-II	31.85	10/16/2006	10.06	0.00	21.79
UST820-MW16	T-II	31.85	10/23/2007	14.92	0.00	16.93
UST820-MW17	T-III	32.16	8/8/2005	19.81	0.00	12.35
UST820-MW17	T-III	32.16	2/2/2006	16.46	0.00	15.70
UST820-MW17	T-III	32.16	10/16/2006	17.32	0.00	14.84
UST820-MW17	T-III	32.16	10/23/2007	20.57	0.00	11.59
UST820-MW18	T-II	31.30	8/10/2005	13.69	0.00	17.61
UST820-MW18	T-II	31.30	2/2/2006	9.68	0.00	21.62
UST820-MW18	T-II	31.30	10/17/2006	10.81	0.00	20.49
UST820-MW18	T-II	31.30	10/23/2007	15.22	0.00	16.08
UST820-MW19	T-III	31.34	8/8/2005	18.95	0.00	12.39
UST820-MW19	T-III	31.34	2/2/2006		0.00	
UST820-MW19	T-III	31.34	10/17/2006	16.62	0.00	14.72
UST820-MW19	T-III	31.34	10/23/2007	21.15	0.00	10.19
UST820-MW20	T-II	31.17	8/9/2005	15.55	0.00	15.62
UST820-MW20	T-II	31.17	2/2/2006	11.62	0.00	19.55
UST820-MW20	T-II	31.17	10/17/2006	12.56	0.00	18.61
UST820-MW20	T-II	31.17	10/23/2007	16.93	0.00	14.24
UST820-MW21	T-III	31.48	8/9/2005	18.80	0.00	12.68
UST820-MW21	T-III	31.48	2/2/2006	14.86	0.00	16.62
UST820-MW21	T-III	31.48	10/17/2006	13.33	0.00	18.15
UST820-MW21	T-III	31.48	10/23/2007	19.51	0.00	11.97

Notes:
1. T-II = Type II monitoring well
   T-III = Type III monitoring well
   RW = Recovery well
2. TOC = Top of casing elevation in feet relative to Mean Sea Level.
3. DTW = Depth to water (in feet) from top of well casing.
4. Product thickness is measured in feet.
5. GWT = Groundwater Table
6. A zero ("0.00") in the product thickness column indicates no measureable thickness.
7. GWT Elevation corrected for measurable free product, if present.

Well No.	Type	TOC	Date	DTW	Product Thickness	Corrected GWT Elevation
UST820-MW22	T-II	31.53	8/10/2005	13.69	0.00	17.84
UST820-MW22	T-II	31.53	2/3/2006	14.42	0.00	17.11
UST820-MW22	T-II	31.53	10/18/2006	15.31	0.00	16.22
UST820-MW22	T-II	31.53	10/24/2007	19.38	0.00	12.15
UST820-MW23	T-III	30.85	8/10/2005	17.83	0.00	13.02
UST820-MW23	T-III	30.85	2/3/2006	14.84	0.00	16.01
UST820-MW23	T-III	30.85	10/18/2006	15.63	0.00	15.22
UST820-MW23	T-III	30.85	10/24/2007	19.78	0.00	11.07
UST820-MW24	T-II	29.34	8/9/2005	16.19	0.00	13.15
UST820-MW24	T-II	29.34	2/2/2006	13.20	0.00	16.14
UST820-MW24	T-II	29.34	10/16/2006	13.82	0.00	15.52
UST820-MW24	T-II	29.34	10/19/2007	17.03	0.00	12.31
UST820-MW25	T-III	28.17	8/8/2005	15.51	0.00	12.66
UST820-MW25	T-III	28.17	2/2/2006	12.35	0.00	15.82
UST820-MW25	T-III	28.17	10/16/2006	13.13	0.00	15.04
UST820-MW25	T-III	28.17	10/19/2007	16.29	0.00	11.88
UST820-MW26	T-II	28.48	8/9/2005	12.00	0.00	16.48
UST820-MW26	T-II	28.48	2/5/2006	9.19	0.00	19.29
UST820-MW26	T-II	28.48	10/13/2006	10.09	0.00	18.39
UST820-MW26	T-II	28.48	10/19/2007	13.76	0.00	14.72
UST820-MW27	T-II	29.91	8/6/2005	11.30	0.00	18.61
UST820-MW27	T-II	29.91	2/5/2006	7.81	0.00	22.10
UST820-MW27	T-II	29.91	10/17/2006	8.65	0.00	21.26
UST820-MW27	T-II	29.91	10/21/2007	13.13	0.00	16.78
UST820-MW28	T-III	28.85	8/9/2005	16.21	0.00	12.64
UST820-MW28	T-III	28.85	2/5/2006	15.05	0.00	13.80
UST820-MW28	T-III	28.85	10/18/2006	13.67	0.00	15.18
UST820-MW28	T-III	28.85	10/15/2007	13.62	0.00	15.23
UST820-MW29	T-III	27.36	8/9/2005	13.75	0.00	13.61

Notes:
1. T-II = Type II monitoring well
   T-III = Type III monitoring well
   RW = Recovery well
2. TOC = Top of casing elevation in feet relative to Mean Sea Level.
3. DTW = Depth to water (in feet) from top of well casing.
4. Product thickness is measured in feet.
5. GWT = Groundwater Table
6. A zero ("0.00") in the product thickness column indicates no measureable thickness.
7. GWT Elevation corrected for measurable free product, if present.

Well No.	Type	TOC	Date	DTW	Product Thickness	Corrected GWT Elevation
UST820-MW29	T-III	27.36	2/3/2006	10.60	0.00	16.76
UST820-MW29	T-III	27.36	10/18/2006	11.28	0.00	16.08
UST820-MW29	T-III	27.36	10/18/2007	14.41	0.00	12.95
UST820-MW30	T-III	29.42	10/14/2006	17.29	0.00	12.13
UST820-MW30	T-III	29.42	10/18/2007	17.69	0.00	11.73
UST820-MW31	T-III	29.96	10/14/2006	17.81	0.00	12.15
UST820-MW31	T-III	29.96	10/15/2007	16.25	0.00	13.71
UST820-MW32	T-III	29.16	10/14/2006	11.97	0.00	17.19
UST820-MW32	T-III	29.16	10/15/2007	16.73	0.00	12.43
UST820-MW33	T-III	31.30	10/18/2006	14.06	0.00	17.24
UST820-MW33	T-III	31.30	10/24/2007	21.10	0.00	10.20
UST820-MW34	T-III	30.18	10/18/2006	13.72	0.00	16.46
UST820-MW34	T-III	30.18	10/15/2007	17.99	0.00	12.19
UST820-PW01	RW	30.86	8/8/2005	14.30	0.00	16.56
UST820-PW01	RW	30.86	2/1/2006	10.40	0.00	20.46
UST820-PW01	RW	30.86	1/3/2007	10.40	0.00	20.46
UST820-PW01	RW	30.86	10/17/2007	16.59	0.00	14.27

Notes:
1. T-II = Type II monitoring well
   T-III = Type III monitoring well
   RW = Recovery well
2. TOC = Top of casing elevation in feet relative to Mean Sea Level.
3. DTW = Depth to water (in feet) from top of well casing.
4. Product thickness is measured in feet.
5. GWT = Groundwater Table
6. A zero ("0.00") in the product thickness column indicates no measureable thickness.
7. GWT Elevation corrected for measurable free product, if present.

TABLE 14.2

SITE 820

GROUNDWATER LABORATORY ANALYTICAL RESULTS - JULY 2005 TO DECEMBER 2007

EPA METHOD 602

Contaminant of Concern →		1,2-Dichlorobenzene	1,3-Dichlorobenzene	Benzene	Di-Isopropyl ether	Ethylbenzene	Methyl Tert Butyl Ether	Toluene	Total Xylenes	Xylenes (total)
Well ID	**Date**									
2L GWQS		24	170	1	70	550	200	1000	530	530
GCL		72500	61500	5000	70000	550000	200000	257500	87500	87500
UST820-MW02	8/6/2005	**169.00**	BQL	BQL	BQL	7.00	2.30	52.30	BQL	97.80
UST820-MW02	2/1/2006	**27.80**	BQL	BQL	BQL	BQL	**589.00**	BQL	BQL	BQL
UST820-MW02	10/13/2006	21.90	BQL	BQL	BQL	BQL	9.20	BQL	18.80	BQL
UST820-MW02	10/23/2007	BQL	BQL	**6.80**	BQL	2.70	BQL	5.50	BQL	172.00
UST820-MW03	2/2/2006	2.90	BQL	BQL	BQL	0.79	**1590.00**	10.00	BQL	86.90
UST820-MW03	10/13/2006	BQL	BQL	BQL	BQL	BQL	9.50	BQL	2.00	BQL
UST820-MW03	10/17/2007	BQL	BQL	**1.10**	BQL	9.00	7.30	26.10	BQL	163.00
UST820-MW04	2/5/2006	BQL	BQL	**2.10**	BQL	BQL	0.91	BQL	BQL	BQL
UST820-MW04	10/12/2006	BQL	BQL	BQL	BQL	BQL	1.10	BQL	BQL	BQL
UST820-MW04	10/18/2007	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL

Notes:
1. 2L GWQS = North Carolina groundwater quality standard 15A NCAC 2L .0202
2. GCL = Gross Contamination Levels for ground water as defined in "Guidelines for Assessment and Corrective Action" North Carolina Underground Storage Tank Section, effective July 1, 2001
3. All units are in ug/L (Micrograms per Liter)
4. BQL = Below Quantitaion Limits
5. A zero in the 2L GWQS row indicates the 2L Standard is equal to the laboratory detection limit
6. A zero in the GCL row indicates a GCL has not been established
7. Shaded concentrations indicate exceedance of the 2L GWQS
8. Only compounds which were detected are shown on table. All other compounds were BQL
9. Please note, compounds reported in duplicate columns are the result of multiple laboratories submitting EDD data with different nomenclature. Unless BQL appears in both duplicate columns, a detection is present and that concentration is reported numerically.

TABLE 14.2

SITE 820

GROUNDWATER LABORATORY ANALYTICAL RESULTS - JULY 2005 TO DECEMBER 2007

EPA METHOD 602

Contaminant of Concern →		1,2-Dichlorobenzene	1,3-Dichlorobenzene	Benzene	Di-Isopropyl ether	Ethylbenzene	Methyl Tert Butyl Ether	Toluene	Total Xylenes	Xylenes (total)
Well ID	**Date**									
2L GWQS		24	170	1	70	550	200	1000	530	530
GCL		72500	61500	5000	70000	550000	200000	257500	87500	87500
UST820-MW05	8/6/2005	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
UST820-MW05	2/5/2006	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
UST820-MW05	10/12/2006	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
UST820-MW05	10/18/2007	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
UST820-MW06	2/2/2006	**89.80**	BQL	**92.00**	BQL	**1130.00**	32.90	164.00	BQL	**1070.00**
UST820-MW06	10/14/2006	BQL	BQL	**103.00**	BQL	**1280.00**	**252.00**	670.00	**2030.00**	BQL
UST820-MW06	10/21/2007	**128.00**	BQL	**65.40**	31.80	**1880.00**	30.30	797.00	BQL	**1890.00**

Notes:
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3. All units are in ug/L (Micrograms per Liter)
4. BQL = Below Quantitaion Limits
5. A zero in the 2L GWQS row indicates the 2L Standard is equal to the laboratory detection limit
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TABLE 14.2

SITE 820

GROUNDWATER LABORATORY ANALYTICAL RESULTS - JULY 2005 TO DECEMBER 2007

EPA METHOD 602

Contaminant of Concern →		1,2-Dichlorobenzene	1,3-Dichlorobenzene	Benzene	Di-isopropyl ether	Ethylbenzene	Methyl Tert Butyl Ether	Toluene	Total Xylenes	Xylenes (total)
Well ID	**Date**									
2L GWQS		24	170	1	70	550	200	1000	530	530
GCL		72500	61500	5000	70000	550000	200000	257500	87500	87500
UST820-MW07	8/9/2005	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
UST820-MW07	2/3/2006	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
UST820-MW07	10/16/2006	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
UST820-MW07	10/24/2007	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
UST820-MW08	8/9/2005	BQL	BQL	BQL	BQL	BQL	2.00	BQL	BQL	BQL
UST820-MW08	2/3/2006	BQL	BQL	0.55	BQL	BQL	2.30	BQL	BQL	BQL
UST820-MW08	10/16/2006	BQL	BQL	0.67	BQL	BQL	4.10	BQL	BQL	BQL
UST820-MW08	10/24/2007	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL

Notes:
1. 2L GWQS = North Carolina groundwater quality standard 15A NCAC 2L .0202
2. GCL = Gross Contamination Levels for ground water as defined in "Guidelines for Assessment and Corrective Action" North Carolina Underground Storage Tank Section, effective July 1, 2001
3. All units are in ug/L (Micrograms per Liter)
4. BQL = Below Quantitaion Limits
5. A zero in the 2L GWQS row indicates the 2L Standard is equal to the laboratory detection limit
6. A zero in the GCL row indicates a GCL has not been established
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TABLE 14.2

SITE 820

GROUNDWATER LABORATORY ANALYTICAL RESULTS - JULY 2005 TO DECEMBER 2007

EPA METHOD 602

Contaminant of Concern →		1,2-Dichlorobenzene	1,3-Dichlorobenzene	Benzene	Di-isopropyl ether	Ethylbenzene	Methyl Tert Butyl Ether	Toluene	Total Xylenes	Xylenes (total)
Well ID	**Date**									
2L GWQS		24	170	1	70	550	200	1000	530	530
GCL		72500	61500	5000	70000	550000	200000	257500	87500	87500
UST820-MW09	8/6/2005	4.80	BQL	**1820.00**	BQL	168.00	**2410.00**	224.00	BQL	297.00
UST820-MW09	2/1/2006	BQL	BQL	**1710.00**	BQL	119.00	**2130.00**	75.60	BQL	242.00
UST820-MW09	1/3/2007	BQL	BQL	**723.00**	BQL	24.70	**1000.00**	19.60	49.20	BQL
UST820-MW09	10/23/2007	BQL	BQL	**92.60**	BQL	6.80	**583.00**	11.20	BQL	BQL
UST820-MW09D	8/6/2005	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
UST820-MW09D	2/1/2006	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
UST820-MW09D	10/14/2006	BQL	BQL	BQL	BQL	BQL	3.90	BQL	BQL	BQL
UST820-MW09D	10/21/2007	BQL	BQL	**1.20**	BQL	55.20	9.50	14.80	BQL	79.30
UST820-MW10	2/2/2006	BQL	BQL	BQL	BQL	BQL	22.50	BQL	BQL	BQL
UST820-MW10	10/17/2006	BQL	BQL	BQL	BQL	BQL	24.00	BQL	BQL	BQL

Notes:
1. 2L GWQS = North Carolina groundwater quality standard 15A NCAC 2L .0202
2. GCL = Gross Contamination Levels for ground water as defined in "Guidelines for Assessment and Corrective Action" North Carolina Underground Storage Tank Section, effective July 1, 2001
3. All units are in ug/L (Micrograms per Liter)
4. BQL = Below Quantitaion Limits
5. A zero in the 2L GWQS row indicates the 2L Standard is equal to the laboratory detection limit
6. A zero in the GCL row indicates a GCL has not been established
7. Shaded concentrations indicate exceedance of the 2L GWQS
8. Only compounds which were detected are shown on table. All other compounds were BQL
9. Please note, compounds reported in duplicate columns are the result of multiple laboratories submitting EDD data with different nomenclature. Unless BQL appears in both duplicate columns, a detection is present and that concentration is reported numerically.

TABLE 14.2

SITE 820

GROUNDWATER LABORATORY ANALYTICAL RESULTS - JULY 2005 TO DECEMBER 2007

EPA METHOD 602

Contaminant of Concern →		1,2-Dichlorobenzene	1,3-Dichlorobenzene	Benzene	Di-isopropyl ether	Ethylbenzene	Methyl Tert Butyl Ether	Toluene	Total Xylenes	Xylenes (total)
Well ID	**Date**									
	2L GWQS	24	170	1	70	550	200	1000	530	530
	GCL	72500	61500	5000	70000	550000	200000	257500	87500	87500
UST820-MW11	2/5/2006	BQL	BQL	**1.30**	BQL	55.20	BQL	249.00	BQL	**1390.00**
UST820-MW11	10/17/2006	BQL	BQL	**1.10**	BQL	57.20	BQL	177.00	**1860.00**	BQL
UST820-MW11	10/18/2007	**104.00**	25.60	**5.10**	3.60	46.20	1.90	13.50	BQL	**1400.00**
UST820-MW12	8/8/2005	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
UST820-MW12	2/2/2006	BQL	BQL	BQL	BQL	BQL	4.90	BQL	BQL	BQL
UST820-MW12	10/13/2006	BQL	BQL	BQL	BQL	BQL	120.00	BQL	BQL	BQL
UST820-MW12	10/18/2007	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL

Notes:
1. 2L GWQS = North Carolina groundwater quality standard 15A NCAC 2L .0202
2. GCL = Gross Contamination Levels for ground water as defined in "Guidelines for Assessment and Corrective Action" North Carolina Underground Storage Tank Section, effective July 1, 2001
3. All units are in ug/L (Micrograms per Liter)
4. BQL = Below Quantitaion Limits
5. A zero in the 2L GWQS row indicates the 2L Standard is equal to the laboratory detection limit
6. A zero in the GCL row indicates a GCL has not been established
7. Shaded concentrations indicate exceedance of the 2L GWQS
8. Only compounds which were detected are shown on table. All other compounds were BQL
9. Please note, compounds reported in duplicate columns are the result of multiple laboratories submitting EDD data with different nomenclature. Unless BQL appears in both duplicate columns, a detection is present and that concentration is reported numerically.

TABLE 14.2

SITE 820

GROUNDWATER LABORATORY ANALYTICAL RESULTS - JULY 2005 TO DECEMBER 2007

EPA METHOD 602

Contaminant of Concern →		1,2-Dichlorobenzene	1,3-Dichlorobenzene	Benzene	Di-isopropyl ether	Ethylbenzene	Methyl Tert Butyl Ether	Toluene	Total Xylenes	Xylenes (total)
Well ID	**Date**									
2L GWQS		24	170	1	70	550	200	1000	530	530
GCL		72500	61500	5000	70000	550000	200000	257500	87500	87500
UST820-MW13	8/6/2005	BQL	BQL	**1.80**	BQL	21.70	BQL	41.60	BQL	148.00
UST820-MW13	2/2/2006	20.30	BQL	**8.80**	BQL	60.80	BQL	304.00	BQL	**903.00**
UST820-MW13	10/13/2006	1.30	BQL	BQL	BQL	6.70	2.60	10.80	41.20	BQL
UST820-MW13	10/18/2007	BQL	BQL	BQL	BQL	13.50	8.40	27.40	BQL	86.00
UST820-MW14	8/9/2005	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
UST820-MW14	2/3/2006	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
UST820-MW14	10/16/2006	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
UST820-MW14	10/19/2007	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL

Notes:
1. 2L GWQS = North Carolina groundwater quality standard 15A NCAC 2L .0202
2. GCL = Gross Contamination Levels for ground water as defined in "Guidelines for Assessment and Corrective Action" North Carolina Underground Storage Tank Section, effective July 1, 2001
3. All units are in ug/L (Micrograms per Liter)
4. BQL = Below Quantitaion Limits
5. A zero in the 2L GWQS row indicates the 2L Standard is equal to the laboratory detection limit
6. A zero in the GCL row indicates a GCL has not been established
7. Shaded concentrations indicate exceedance of the 2L GWQS
8. Only compounds which were detected are shown on table. All other compounds were BQL
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TABLE 14.2

SITE 820

GROUNDWATER LABORATORY ANALYTICAL RESULTS - JULY 2005 TO DECEMBER 2007

EPA METHOD 602

Contaminant of Concern →		1,2-Dichlorobenzene	1,3-Dichlorobenzene	Benzene	Di-isopropyl ether	Ethylbenzene	Methyl Tert Butyl Ether	Toluene	Total Xylenes	Xylenes (total)
Well ID	Date									
2L GWQS		24	170	1	70	550	200	1000	530	530
GCL		72500	61500	5000	70000	550000	200000	257500	87500	87500
UST820-MW15	8/6/2005	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
UST820-MW15	2/2/2006	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
UST820-MW15	10/12/2006	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
UST820-MW15	10/15/2007	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
UST820-MW16	8/8/2005	BQL	BQL	8.60	BQL	BQL	2.70	BQL	BQL	BQL
UST820-MW16	2/2/2006	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
UST820-MW16	10/16/2006	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
UST820-MW16	10/23/2007	1.00	BQL	0.50	BQL	BQL	0.70	BQL	BQL	1.10

Notes:
1. 2L GWQS = North Carolina groundwater quality standard 15A NCAC 2L .0202
2. GCL = Gross Contamination Levels for ground water as defined in "Guidelines for Assessment and Corrective Action" North Carolina Underground Storage Tank Section, effective July 1, 2001
3. All units are in ug/L (Micrograms per Liter)
4. BQL = Below Quantitaion Limits
5. A zero in the 2L GWQS row indicates the 2L Standard is equal to the laboratory detection limit
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TABLE 14.2

SITE 820

GROUNDWATER LABORATORY ANALYTICAL RESULTS - JULY 2005 TO DECEMBER 2007

EPA METHOD 602

Contaminant of Concern →		1,2-Dichlorobenzene	1,3-Dichlorobenzene	Benzene	Di-isopropyl ether	Ethylbenzene	Methyl Tert Butyl Ether	Toluene	Total Xylenes	Xylenes (total)
Well ID	Date									
2L GWQS		24	170	1	70	550	200	1000	530	530
GCL		72500	61500	5000	70000	550000	200000	257500	87500	87500
UST820-MW17	8/8/2005	BQL	BQL	**552.00**	BQL	1.20	**4250.00**	BQL	BQL	5.10
UST820-MW17	2/2/2006	BQL	BQL	**675.00**	BQL	BQL	**5180.00**	BQL	BQL	BQL
UST820-MW17	10/16/2006	BQL	BQL	**695.00**	BQL	BQL	**4520.00**	BQL	BQL	BQL
UST820-MW17	10/23/2007	BQL	BQL	**53.40**	BQL	BQL	**2960.00**	BQL	BQL	BQL
UST820-MW18	2/2/2006	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
UST820-MW18	10/17/2006	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
UST820-MW18	10/23/2007	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	1.80
UST820-MW19	8/8/2005	BQL	BQL	BQL	BQL	BQL	8.80	BQL	BQL	BQL
UST820-MW19	10/17/2006	BQL	BQL	BQL	BQL	BQL	7.40	BQL	BQL	BQL

Notes:
1. 2L GWQS = North Carolina groundwater quality standard 15A NCAC 2L .0202
2. GCL = Gross Contamination Levels for ground water as defined in "Guidelines for Assessment and Corrective Action" North Carolina Underground Storage Tank Section, effective July 1, 2001
3. All units are in ug/L (Micrograms per Liter)
4. BQL = Below Quantitaion Limits
5. A zero in the 2L GWQS row indicates the 2L Standard is equal to the laboratory detection limit
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TABLE 14.2

SITE 820

GROUNDWATER LABORATORY ANALYTICAL RESULTS - JULY 2005 TO DECEMBER 2007

EPA METHOD 602

Contaminant of Concern →		1,2-Dichlorobenzene	1,3-Dichlorobenzene	Benzene	Di-Isopropyl ether	Ethylbenzene	Methyl Tert Butyl Ether	Toluene	Total Xylenes	Xylenes (total)
Well ID	**Date**									
2L GWQS		24	170	1	70	550	200	1000	530	530
GCL		72500	61500	5000	70000	550000	200000	257500	87500	87500
UST820-MW20	8/9/2005	BQL	BQL	BQL	BQL	BQL	0.53	BQL	BQL	BQL
UST820-MW20	2/2/2006	BQL	BQL	0.69	BQL	8.00	0.59	1.10	BQL	7.80
UST820-MW20	10/17/2006	BQL	BQL	BQL	BQL	BQL	1.30	BQL	BQL	BQL
UST820-MW20	10/23/2007	0.71	BQL	BQL	BQL	BQL	2.20	BQL	BQL	BQL
UST820-MW21	8/9/2005	BQL	BQL	BQL	BQL	BQL	0.85	BQL	BQL	BQL
UST820-MW21	2/2/2006	BQL	BQL	BQL	BQL	BQL	1.50	BQL	BQL	BQL
UST820-MW21	10/17/2006	BQL	BQL	BQL	BQL	BQL	0.96	BQL	BQL	BQL
UST820-MW21	10/23/2007	0.77	BQL	BQL	BQL	BQL	1.40	BQL	BQL	BQL

Notes:
1. 2L GWQS = North Carolina groundwater quality standard 15A NCAC 2L .0202
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3. All units are in ug/L (Micrograms per Liter)
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5. A zero in the 2L GWQS row indicates the 2L Standard is equal to the laboratory detection limit
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TABLE 14.2

SITE 820

GROUNDWATER LABORATORY ANALYTICAL RESULTS - JULY 2005 TO DECEMBER 2007

EPA METHOD 602

Contaminant of Concern →		1,2-Dichlorobenzene	1,3-Dichlorobenzene	Benzene	Di-Isopropyl ether	Ethylbenzene	Methyl Tert Butyl Ether	Toluene	Total Xylenes	Xylenes (total)
Well ID	**Date**									
	2L GWQS	24	170	1	70	550	200	1000	530	530
	GCL	72500	61500	5000	70000	550000	200000	257500	87500	87500
UST820-MW22	2/3/2006	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
UST820-MW22	10/18/2006	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
UST820-MW22	10/24/2007	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
UST820-MW23	2/3/2006	BQL	BQL	BQL	BQL	BQL	1.60	BQL	BQL	BQL
UST820-MW23	10/18/2006	BQL	BQL	BQL	BQL	BQL	0.97	BQL	BQL	BQL
UST820-MW23	10/24/2007	0.90	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
UST820-MW24	8/9/2005	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
UST820-MW24	2/2/2006	BQL	BQL	2.90	BQL	BQL	0.70	BQL	BQL	BQL
UST820-MW24	10/16/2006	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
UST820-MW24	10/19/2007	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL

Notes:
1. 2L GWQS = North Carolina groundwater quality standard 15A NCAC 2L .0202
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SITE 820

GROUNDWATER LABORATORY ANALYTICAL RESULTS - JULY 2005 TO DECEMBER 2007

EPA METHOD 602

Contaminant of Concern →		1,2-Dichlorobenzene	1,3-Dichlorobenzene	Benzene	Di-isopropyl ether	Ethylbenzene	Methyl Tert Butyl Ether	Toluene	Total Xylenes	Xylenes (total)
Well ID	**Date**									
2L GWQS		24	170	1	70	550	200	1000	530	530
GCL		72500	61500	5000	70000	550000	200000	257500	87500	87500
UST820-MW25	8/8/2005	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
UST820-MW25	2/2/2006	BQL	BQL	4.50	BQL	BQL	1.20	BQL	BQL	BQL
UST820-MW25	10/16/2006	BQL	BQL	BQL	BQL	BQL	0.77	BQL	BQL	BQL
UST820-MW25	10/19/2007	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
UST820-MW26	8/9/2005	BQL	BQL	BQL	BQL	BQL	1.50	BQL	BQL	BQL
UST820-MW26	2/5/2006	BQL	BQL	5.10	BQL	BQL	BQL	BQL	BQL	BQL
UST820-MW26	10/13/2006	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
UST820-MW26	10/19/2007	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL

Notes:
1. 2L GWQS = North Carolina groundwater quality standard 15A NCAC 2L .0202
2. GCL = Gross Contamination Levels for ground water as defined in "Guidelines for Assessment and Corrective Action" North Carolina Underground Storage Tank Section, effective July 1, 2001
3. All units are in ug/L (Micrograms per Liter)
4. BQL = Below Quantitaion Limits
5. A zero in the 2L GWQS row indicates the 2L Standard is equal to the laboratory detection limit
6. A zero in the GCL row indicates a GCL has not been established
7. Shaded concentrations indicate exceedance of the 2L GWQS
8. Only compounds which were detected are shown on table. All other compounds were BQL
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TABLE 14.2

SITE 820

GROUNDWATER LABORATORY ANALYTICAL RESULTS - JULY 2005 TO DECEMBER 2007

EPA METHOD 602

Contaminant of Concern →		1,2-Dichlorobenzene	1,3-Dichlorobenzene	Benzene	Di-isopropyl ether	Ethylbenzene	Methyl Tert Butyl Ether	Toluene	Total Xylenes	Xylenes (total)
Well ID	**Date**									
	2L GWQS	24	170	1	70	550	200	1000	530	530
	GCL	72500	61500	5000	70000	550000	200000	257500	87500	87500
UST820-MW27	8/6/2005	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
UST820-MW27	2/5/2006	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
UST820-MW27	10/17/2006	BQL	BQL	BQL	BQL	2.60	BQL	5.70	70.00	BQL
UST820-MW27	10/21/2007	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
UST820-MW28	8/9/2005	BQL	BQL	**1130.00**	BQL	BQL	**2430.00**	BQL	BQL	BQL
UST820-MW28	2/5/2006	BQL	BQL	**258.00**	BQL	BQL	**576.00**	BQL	BQL	BQL
UST820-MW28	10/18/2006	BQL	BQL	**94.30**	BQL	BQL	**428.00**	BQL	BQL	BQL
UST820-MW28	10/15/2007	BQL	BQL	**1.70**	4.40	BQL	**740.00**	BQL	BQL	BQL

Notes:
1. 2L GWQS = North Carolina groundwater quality standard 15A NCAC 2L .0202
2. GCL = Gross Contamination Levels for ground water as defined in "Guidelines for Assessment and Corrective Action" North Carolina Underground Storage Tank Section, effective July 1, 2001
3. All units are in ug/L (Micrograms per Liter)
4. BQL = Below Quantitaion Limits
5. A zero in the 2L GWQS row indicates the 2L Standard is equal to the laboratory detection limit
6. A zero in the GCL row indicates a GCL has not been established
7. Shaded concentrations indicate exceedance of the 2L GWQS
8. Only compounds which were detected are shown on table. All other compounds were BQL
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TABLE 14.2

SITE 820

GROUNDWATER LABORATORY ANALYTICAL RESULTS - JULY 2005 TO DECEMBER 2007

EPA METHOD 602

Contaminant of Concern →		1,2-Dichlorobenzene	1,3-Dichlorobenzene	Benzene	Di-Isopropyl ether	Ethylbenzene	Methyl Tert Butyl Ether	Toluene	Total Xylenes	Xylenes (total)
Well ID	**Date**									
2L GWQS		24	170	1	70	550	200	1000	530	530
GCL		72500	61500	5000	70000	550000	200000	257500	87500	87500
UST820-MW29	8/9/2005	BQL	BQL	**10.70**	BQL	BQL	23.20	BQL	BQL	BQL
UST820-MW29	2/3/2006	BQL	BQL	**10.80**	BQL	BQL	16.40	BQL	BQL	BQL
UST820-MW29	10/18/2006	BQL	BQL	**9.40**	BQL	BQL	11.40	BQL	BQL	BQL
UST820-MW29	10/18/2007	BQL	BQL	BQL	BQL	BQL	6.60	BQL	BQL	BQL
UST820-MW30	10/14/2006	BQL	BQL	BQL	BQL	BQL	5.60	BQL	BQL	BQL
UST820-MW30	10/18/2007	BQL	BQL	BQL	BQL	BQL	6.00	BQL	BQL	BQL
UST820-MW31	10/14/2006	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
UST820-MW31	10/15/2007	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL

Notes:
1. 2L GWQS = North Carolina groundwater quality standard 15A NCAC 2L .0202
2. GCL = Gross Contamination Levels for ground water as defined in "Guidelines for Assessment and Corrective Action" North Carolina Underground Storage Tank Section, effective July 1, 2001
3. All units are in ug/L (Micrograms per Liter)
4. BQL = Below Quantitaion Limits
5. A zero in the 2L GWQS row indicates the 2L Standard is equal to the laboratory detection limit
6. A zero in the GCL row indicates a GCL has not been established
7. Shaded concentrations indicate exceedance of the 2L GWQS
8. Only compounds which were detected are shown on table. All other compounds were BQL
9. Please note, compounds reported in duplicate columns are the result of multiple laboratories submitting EDD data with different nomenclature. Unless BQL appears in both duplicate columns, a detection is present and that concentration is reported numerically.

TABLE 14.2

SITE 820

GROUNDWATER LABORATORY ANALYTICAL RESULTS - JULY 2005 TO DECEMBER 2007

EPA METHOD 602

Contaminant of Concern →		1,2-Dichlorobenzene	1,3-Dichlorobenzene	Benzene	Di-Isopropyl ether	Ethylbenzene	Methyl Tert Butyl Ether	Toluene	Total Xylenes	Xylenes (total)
Well ID	**Date**									
2L GWQS		24	170	1	70	550	200	1000	530	530
GCL		72500	61500	5000	70000	550000	200000	257500	87500	87500
UST820-MW32	10/14/2006	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
UST820-MW32	10/15/2007	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
UST820-MW33	10/18/2006	BQL	BQL	0.83	BQL	BQL	BQL	BQL	BQL	BQL
UST820-MW33	10/24/2007	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
UST820-MW34	10/18/2006	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
UST820-MW34	10/15/2007	BQL	BQL	BQL	BQL	BQL	1.30	BQL	BQL	BQL
UST820-PW01	2/1/2006	12.70	BQL	**36.90**	BQL	7.10	7.90	24.10	BQL	106.00
UST820-PW01	1/3/2007	BQL	BQL	**17.20**	BQL	16.60	34.50	75.40	362.00	BQL
UST820-PW01	10/17/2007	BQL	BQL	**1.40**	BQL	18.40	8.50	2.70	BQL	45.80

Notes:
1. 2L GWQS = North Carolina groundwater quality standard 15A NCAC 2L .0202
2. GCL = Gross Contamination Levels for ground water as defined in "Guidelines for Assessment and Corrective Action" North Carolina Underground Storage Tank Section, effective July 1, 2001
3. All units are in ug/L (Micrograms per Liter)
4. BQL = Below Quantitaion Limits
5. A zero in the 2L GWQS row indicates the 2L Standard is equal to the laboratory detection limit
6. A zero in the GCL row indicates a GCL has not been established
7. Shaded concentrations indicate exceedance of the 2L GWQS
8. Only compounds which were detected are shown on table. All other compounds were BQL
9. Please note, compounds reported in duplicate columns are the result of multiple laboratories submitting EDD data with different nomenclature. Unless BQL appears in both duplicate columns, a detection is present and that concentration is reported numerically.

TABLE 14.3

SITE 820

GROUNDWATER LABORATORY ANALYTICAL RESULTS - JULY 2005 TO DECEMBER 2007

EPA METHOD 625

Contaminant of Concern →		1-Methylnaphthalene	2-Methylnaphthalene	Benzo(a)anthracene	Benzo(a)pyrene	Benzo(b)fluoranthene	Benzo(g,h,i)perylene	Benzo(k)fluoranthene	Chrysene	Fluoranthene	Indeno(1,2,3-cd)pyrene	Naphthalene	Phenanthrene	Pyrene
Well ID	**Date**													
2L GWQS		14	14	0.05	0.0047	0.047	210	0.479	4.79	280	0.0479	21	210	210
GCL		12500	12500	22	1.5	0.6	210	0.47	5	280	31	15500	410	210
UST820-MW02	2/1/2006	0.97	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
UST820-MW02	10/13/2006	8.30	9.10	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	4.20	BQL	BQL
UST820-MW02	10/23/2007	**111.00**	**139.00**	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	**29.50**	BQL	BQL
UST820-MW03	2/2/2006	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
UST820-MW03	10/13/2006	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
UST820-MW03	10/17/2007	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
UST820-MW04	2/5/2006	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
UST820-MW04	10/12/2006	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
UST820-MW04	10/18/2007	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL

Notes:
1. 2L GWQS = North Carolina groundwater quality standard 15A NCAC 2L .0202
2. GCL = Gross Contamination Levels for ground water as defined in "Guidelines for Assessment and Corrective Action" North Carolina Underground Storage Tank Section, effective July 1, 2001
3. All units are in ug/L (Micrograms per Liter)
4. BQL = Below Quantitaion Limits
5. A zero in the 2L GWQS row indicates the 2L Standard is equal to the laboratory detection limit
6. A zero in the GCL row indicates a GCL has not been established
7. Shaded concentrations indicate exceedance of the 2L GWQS
8. Only compounds which were detected are shown on table. All other compounds were BQL
9. Please note, compounds reported in duplicate columns are the result of multiple laboratories submitting EDD data with different nomenclature. Unless BQL appears in both duplicate columns, a detection is present and that concentration is reported numerically.

TABLE 14.3

SITE 820

GROUNDWATER LABORATORY ANALYTICAL RESULTS - JULY 2005 TO DECEMBER 2007

EPA METHOD 625

Contaminant of Concern →		1-Methylnaphthalene	2-Methylnaphthalene	Benzo(a)anthracene	Benzo(a)pyrene	Benzo(b)fluoranthene	Benzo(g,h,i)perylene	Benzo(k)fluoranthene	Chrysene	Fluoranthene	Indeno(1,2,3-cd)pyrene	Naphthalene	Phenanthrene	Pyrene
Well ID	**Date**													
2L GWQS		14	14	0.05	0.0047	0.047	210	0.479	4.79	280	0.0479	21	210	210
GCL		12500	12500	22	1.5	0.6	210	0.47	5	280	31	15500	410	210
UST820-MW05	2/5/2006	BQL	BQL	BQL	1.00	1.40	BQL	BQL	1.00	1.70	BQL	BQL	BQL	1.30
UST820-MW05	10/12/2006	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
UST820-MW05	10/18/2007	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
UST820-MW06	2/2/2006	56.20	89.40	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	230.00	BQL	BQL
UST820-MW06	10/14/2006	50.80	86.10	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	253.00	BQL	BQL
UST820-MW06	10/21/2007	52.90	86.30	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	322.00	BQL	BQL
UST820-MW07	2/3/2006	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
UST820-MW07	10/16/2006	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
UST820-MW07	10/24/2007	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL

Notes:
1. 2L GWQS = North Carolina groundwater quality standard 15A NCAC 2L .0202
2. GCL = Gross Contamination Levels for ground water as defined in "Guidelines for Assessment and Corrective Action" North Carolina Underground Storage Tank Section, effective July 1, 2001
3. All units are in ug/L (Micrograms per Liter)
4. BQL = Below Quantitaion Limits
5. A zero in the 2L GWQS row indicates the 2L Standard is equal to the laboratory detection limit
6. A zero in the GCL row indicates a GCL has not been established
7. Shaded concentrations indicate exceedance of the 2L GWQS
8. Only compounds which were detected are shown on table. All other compounds were BQL
9. Please note, compounds reported in duplicate columns are the result of multiple laboratories submitting EDD data with different nomenclature. Unless BQL appears in both duplicate columns, a detection is present and that concentration is reported numerically.

TABLE 14.3

SITE 820

GROUNDWATER LABORATORY ANALYTICAL RESULTS - JULY 2005 TO DECEMBER 2007

EPA METHOD 625

Contaminant of Concern →		1-Methylnaphthalene	2-Methylnaphthalene	Benzo(a)anthracene	Benzo(a)pyrene	Benzo(b)fluoranthene	Benzo(g,h,i)perylene	Benzo(k)fluoranthene	Chrysene	Fluoranthene	Indeno(1,2,3-cd)pyrene	Naphthalene	Phenanthrene	Pyrene
Well ID	**Date**													
2L GWQS		14	14	0.05	0.0047	0.047	210	0.479	4.79	280	0.0479	21	210	210
GCL		12500	12500	22	1.5	0.6	210	0.47	5	280	31	15500	410	210
UST820-MW08	2/3/2006	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
UST820-MW08	10/16/2006	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
UST820-MW08	10/24/2007	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
UST820-MW09	2/1/2006	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	6.20	BQL	BQL
UST820-MW09	1/3/2007	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	2.30	BQL	BQL
UST820-MW09	10/23/2007	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	1.70	BQL	BQL
UST820-MW09D	2/1/2006	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
UST820-MW09D	10/14/2006	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
UST820-MW09D	10/21/2007	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL

Notes:
1. 2L GWQS = North Carolina groundwater quality standard 15A NCAC 2L .0202
2. GCL = Gross Contamination Levels for ground water as defined in "Guidelines for Assessment and Corrective Action" North Carolina Underground Storage Tank Section, effective July 1, 2001
3. All units are in ug/L (Micrograms per Liter)
4. BQL = Below Quantitaion Limits
5. A zero in the 2L GWQS row indicates the 2L Standard is equal to the laboratory detection limit
6. A zero in the GCL row indicates a GCL has not been established
7. Shaded concentrations indicate exceedance of the 2L GWQS
8. Only compounds which were detected are shown on table. All other compounds were BQL
9. Please note, compounds reported in duplicate columns are the result of multiple laboratories submitting EDD data with different nomenclature. Unless BQL appears in both duplicate columns, a detection is present and that concentration is reported numerically.

TABLE 14.3

SITE 820

GROUNDWATER LABORATORY ANALYTICAL RESULTS - JULY 2005 TO DECEMBER 2007

EPA METHOD 625

Contaminant of Concern →		1-Methylnaphthalene	2-Methylnaphthalene	Benzo(a)anthracene	Benzo(a)pyrene	Benzo(b)fluoranthene	Benzo(g,h,i)perylene	Benzo(k)fluoranthene	Chrysene	Fluoranthene	Indeno(1,2,3-cd)pyrene	Naphthalene	Phenanthrene	Pyrene
Well ID	**Date**													
2L GWQS		14	14	0.05	0.0047	0.047	210	0.479	4.79	280	0.0479	21	210	210
GCL		12500	12500	22	1.5	0.6	210	0.47	5	280	31	15500	410	210
UST820-MW10	2/2/2006	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
UST820-MW10	10/17/2006	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
UST820-MW11	2/5/2006	**21.40**	**24.00**	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	3.40	BQL	BQL
UST820-MW11	10/17/2006	**37.50**	**50.40**	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	**156.00**	BQL	BQL
UST820-MW11	10/18/2007	**57.20**	**71.80**	**1.00**	**2.30**	**2.70**	2.80	**1.60**	1.80	1.60	**2.90**	**272.00**	BQL	1.50
UST820-MW12	2/2/2006	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
UST820-MW12	10/13/2006	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
UST820-MW12	10/18/2007	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL

Notes:
1. 2L GWQS = North Carolina groundwater quality standard 15A NCAC 2L .0202
2. GCL = Gross Contamination Levels for ground water as defined in "Guidelines for Assessment and Corrective Action" North Carolina Underground Storage Tank Section, effective July 1, 2001
3. All units are in ug/L (Micrograms per Liter)
4. BQL = Below Quantitaion Limits
5. A zero in the 2L GWQS row indicates the 2L Standard is equal to the laboratory detection limit
6. A zero in the GCL row indicates a GCL has not been established
7. Shaded concentrations indicate exceedance of the 2L GWQS
8. Only compounds which were detected are shown on table. All other compounds were BQL
9. Please note, compounds reported in duplicate columns are the result of multiple laboratories submitting EDD data with different nomenclature. Unless BQL appears in both duplicate columns, a detection is present and that concentration is reported numerically.

TABLE 14.3

SITE 820

GROUNDWATER LABORATORY ANALYTICAL RESULTS - JULY 2005 TO DECEMBER 2007

EPA METHOD 625

Contaminant of Concern →		1-Methylnaphthalene	2-Methylnaphthalene	Benzo(a)anthracene	Benzo(a)pyrene	Benzo(b)fluoranthene	Benzo(g,h,i)perylene	Benzo(k)fluoranthene	Chrysene	Fluoranthene	Indeno(1,2,3-cd)pyrene	Naphthalene	Phenanthrene	Pyrene
Well ID	**Date**													
2L GWQS		14	14	0.05	0.0047	0.047	210	0.479	4.79	280	0.0479	21	210	210
GCL		12500	12500	22	1.5	0.6	210	0.47	5	280	31	15500	410	210
UST820-MW13	2/2/2006	2.30	2.60	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	12.40	BQL	BQL
UST820-MW13	10/13/2006	0.99	1.10	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	4.80	BQL	BQL
UST820-MW13	10/18/2007	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	2.90	BQL	BQL
UST820-MW14	2/3/2006	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
UST820-MW14	10/16/2006	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
UST820-MW14	10/19/2007	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
UST820-MW15	2/2/2006	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
UST820-MW15	10/12/2006	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
UST820-MW15	10/15/2007	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL

Notes:
1. 2L GWQS = North Carolina groundwater quality standard 15A NCAC 2L .0202
2. GCL = Gross Contamination Levels for ground water as defined in "Guidelines for Assessment and Corrective Action" North Carolina Underground Storage Tank Section, effective July 1, 2001
3. All units are in ug/L (Micrograms per Liter)
4. BQL = Below Quantitaion Limits
5. A zero in the 2L GWQS row indicates the 2L Standard is equal to the laboratory detection limit
6. A zero in the GCL row indicates a GCL has not been established
7. Shaded concentrations indicate exceedance of the 2L GWQS
8. Only compounds which were detected are shown on table. All other compounds were BQL
9. Please note, compounds reported in duplicate columns are the result of multiple laboratories submitting EDD data with different nomenclature. Unless BQL appears in both duplicate columns, a detection is present and that concentration is reported numerically.

TABLE 14.3

SITE 820

GROUNDWATER LABORATORY ANALYTICAL RESULTS - JULY 2005 TO DECEMBER 2007

EPA METHOD 625

Contaminant of Concern →		1-Methylnaphthalene	2-Methylnaphthalene	Benzo(a)anthracene	Benzo(a)pyrene	Benzo(b)fluoranthene	Benzo(g,h,i)perylene	Benzo(k)fluoranthene	Chrysene	Fluoranthene	Indeno(1,2,3-cd)pyrene	Naphthalene	Phenanthrene	Pyrene
Well ID	**Date**													
2L GWQS		14	14	0.05	0.0047	0.047	210	0.479	4.79	280	0.0479	21	210	210
GCL		12500	12500	22	1.5	0.6	210	0.47	5	280	31	15500	410	210
UST820-MW16	2/2/2006	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
UST820-MW16	10/16/2006	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
UST820-MW16	10/23/2007	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
UST820-MW17	2/2/2006	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
UST820-MW17	10/16/2006	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
UST820-MW17	10/23/2007	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
UST820-MW18	2/2/2006	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
UST820-MW18	10/17/2006	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
UST820-MW18	10/23/2007	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL

Notes:
1. 2L GWQS = North Carolina groundwater quality standard 15A NCAC 2L .0202
2. GCL = Gross Contamination Levels for ground water as defined in "Guidelines for Assessment and Corrective Action" North Carolina Underground Storage Tank Section, effective July 1, 2001
3. All units are in ug/L (Micrograms per Liter)
4. BQL = Below Quantitaion Limits
5. A zero in the 2L GWQS row indicates the 2L Standard is equal to the laboratory detection limit
6. A zero in the GCL row indicates a GCL has not been established
7. Shaded concentrations indicate exceedance of the 2L GWQS
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TABLE 14.3

SITE 820

GROUNDWATER LABORATORY ANALYTICAL RESULTS - JULY 2005 TO DECEMBER 2007

EPA METHOD 625

Contaminant of Concern →		1-Methylnaphthalene	2-Methylnaphthalene	Benzo(a)anthracene	Benzo(a)pyrene	Benzo(b)fluoranthene	Benzo(g,h,i)perylene	Benzo(k)fluoranthene	Chrysene	Fluoranthene	Indeno(1,2,3-cd)pyrene	Naphthalene	Phenanthrene	Pyrene
Well ID	**Date**													
2L GWQS		14	14	0.05	0.0047	0.047	210	0.479	4.79	280	0.0479	21	210	210
GCL		12500	12500	22	1.5	0.6	210	0.47	5	280	31	15500	410	210
UST820-MW19	10/17/2006	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
UST820-MW20	2/2/2006	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	1.50	BQL	BQL
UST820-MW20	10/17/2006	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
UST820-MW20	10/23/2007	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
UST820-MW21	2/2/2006	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
UST820-MW21	10/17/2006	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
UST820-MW21	10/23/2007	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL

Notes:
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TABLE 14.3

SITE 820

GROUNDWATER LABORATORY ANALYTICAL RESULTS - JULY 2005 TO DECEMBER 2007

EPA METHOD 625

Contaminant of Concern →		1-Methylnaphthalene	2-Methylnaphthalene	Benzo(a)anthracene	Benzo(a)pyrene	Benzo(b)fluoranthene	Benzo(g,h,i)perylene	Benzo(k)fluoranthene	Chrysene	Fluoranthene	Indeno(1,2,3-cd)pyrene	Naphthalene	Phenanthrene	Pyrene
Well ID	**Date**													
2L GWQS		14	14	0.05	0.0047	0.047	210	0.479	4.79	280	0.0479	21	210	210
GCL		12500	12500	22	1.5	0.6	210	0.47	5	280	31	15500	410	210
UST820-MW22	2/3/2006	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
UST820-MW22	10/18/2006	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
UST820-MW22	10/24/2007	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
UST820-MW23	2/3/2006	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
UST820-MW23	10/18/2006	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
UST820-MW23	10/24/2007	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
UST820-MW24	2/2/2006	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
UST820-MW24	10/16/2006	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
UST820-MW24	10/19/2007	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL

Notes:
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3. All units are in ug/L (Micrograms per Liter)
4. BQL = Below Quantitaion Limits
5. A zero in the 2L GWQS row indicates the 2L Standard is equal to the laboratory detection limit
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7. Shaded concentrations indicate exceedance of the 2L GWQS
8. Only compounds which were detected are shown on table. All other compounds were BQL
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TABLE 14.3

SITE 820

GROUNDWATER LABORATORY ANALYTICAL RESULTS - JULY 2005 TO DECEMBER 2007

EPA METHOD 625

Contaminant of Concern →		1-Methylnaphthalene	2-Methylnaphthalene	Benzo(a)anthracene	Benzo(a)pyrene	Benzo(b)fluoranthene	Benzo(g,h,i)perylene	Benzo(k)fluoranthene	Chrysene	Fluoranthene	Indeno(1,2,3-cd)pyrene	Naphthalene	Phenanthrene	Pyrene
Well ID	**Date**													
2L GWQS		14	14	0.05	0.0047	0.047	210	0.479	4.79	280	0.0479	21	210	210
GCL		12500	12500	22	1.5	0.6	210	0.47	5	280	31	15500	410	210
UST820-MW25	2/2/2006	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
UST820-MW25	10/16/2006	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
UST820-MW25	10/19/2007	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
UST820-MW26	2/5/2006	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
UST820-MW26	10/13/2006	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
UST820-MW26	10/19/2007	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
UST820-MW27	2/5/2006	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
UST820-MW27	10/17/2006	1.90	1.90	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	5.00	BQL	BQL
UST820-MW27	10/21/2007	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL

Notes:
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7. Shaded concentrations indicate exceedance of the 2L GWQS
8. Only compounds which were detected are shown on table. All other compounds were BQL
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TABLE 14.3

SITE 820

GROUNDWATER LABORATORY ANALYTICAL RESULTS - JULY 2005 TO DECEMBER 2007

EPA METHOD 625

Contaminant of Concern →		1-Methylnaphthalene	2-Methylnaphthalene	Benzo(a)anthracene	Benzo(a)pyrene	Benzo(b)fluoranthene	Benzo(g,h,i)perylene	Benzo(k)fluoranthene	Chrysene	Fluoranthene	Indeno(1,2,3-cd)pyrene	Naphthalene	Phenanthrene	Pyrene
Well ID	**Date**													
2L GWQS		14	14	0.05	0.0047	0.047	210	0.479	4.79	280	0.0479	21	210	210
GCL		12500	12500	22	1.5	0.6	210	0.47	5	280	31	15500	410	210
UST820-MW28	2/5/2006	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
UST820-MW28	10/18/2006	BQL	BQL	2.70	4.00	6.10	3.80	1.90	4.80	7.40	3.70	BQL	2.00	5.80
UST820-MW28	10/15/2007	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
UST820-MW29	2/3/2006	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
UST820-MW29	10/18/2006	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
UST820-MW29	10/18/2007	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
UST820-MW30	10/14/2006	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
UST820-MW30	10/18/2007	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL

Notes:
1. 2L GWQS = North Carolina groundwater quality standard 15A NCAC 2L .0202
2. GCL = Gross Contamination Levels for ground water as defined in "Guidelines for Assessment and Corrective Action" North Carolina Underground Storage Tank Section, effective July 1, 2001
3. All units are in ug/L (Micrograms per Liter)
4. BQL = Below Quantitaion Limits
5. A zero in the 2L GWQS row indicates the 2L Standard is equal to the laboratory detection limit
6. A zero in the GCL row indicates a GCL has not been established
7. Shaded concentrations indicate exceedance of the 2L GWQS
8. Only compounds which were detected are shown on table. All other compounds were BQL
9. Please note, compounds reported in duplicate columns are the result of multiple laboratories submitting EDD data with different nomenclature. Unless BQL appears in both duplicate columns, a detection is present and that concentration is reported numerically.

TABLE 14.3

SITE 820

GROUNDWATER LABORATORY ANALYTICAL RESULTS - JULY 2005 TO DECEMBER 2007

EPA METHOD 625

Contaminant of Concern →		1-Methylnaphthalene	2-Methylnaphthalene	Benzo(a)anthracene	Benzo(a)pyrene	Benzo(b)fluoranthene	Benzo(g,h,i)perylene	Benzo(k)fluoranthene	Chrysene	Fluoranthene	Indeno(1,2,3-cd)pyrene	Naphthalene	Phenanthrene	Pyrene
Well ID	Date													
2L GWQS		14	14	0.05	0.0047	0.047	210	0.479	4.79	280	0.0479	21	210	210
GCL		12500	12500	22	1.5	0.6	210	0.47	5	280	31	15500	410	210
UST820-MW31	10/14/2006	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
UST820-MW31	10/15/2007	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
UST820-MW32	10/14/2006	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
UST820-MW32	10/15/2007	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
UST820-MW33	10/18/2006	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
UST820-MW33	10/24/2007	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
UST820-MW34	10/18/2006	BQL	BQL	BQL	1.10	1.50	BQL	BQL	1.20	2.10	BQL	BQL	BQL	1.60
UST820-MW34	10/15/2007	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL

Notes:
1. 2L GWQS = North Carolina groundwater quality standard 15A NCAC 2L .0202
2. GCL = Gross Contamination Levels for ground water as defined in "Guidelines for Assessment and Corrective Action" North Carolina Underground Storage Tank Section, effective July 1, 2001
3. All units are in ug/L (Micrograms per Liter)
4. BQL = Below Quantitaion Limits
5. A zero in the 2L GWQS row indicates the 2L Standard is equal to the laboratory detection limit
6. A zero in the GCL row indicates a GCL has not been established
7. Shaded concentrations indicate exceedance of the 2L GWQS
8. Only compounds which were detected are shown on table. All other compounds were BQL
9. Please note, compounds reported in duplicate columns are the result of multiple laboratories submitting EDD data with different nomenclature. Unless BQL appears in both duplicate columns, a detection is present and that concentration is reported numerically.

TABLE 14.3

SITE 820

GROUNDWATER LABORATORY ANALYTICAL RESULTS - JULY 2005 TO DECEMBER 2007

EPA METHOD 625

Contaminant of Concern →		1-Methylnaphthalene	2-Methylnaphthalene	Benzo(a)anthracene	Benzo(a)pyrene	Benzo(b)fluoranthene	Benzo(g,h,i)perylene	Benzo(k)fluoranthene	Chrysene	Fluoranthene	Indeno(1,2,3-cd)pyrene	Naphthalene	Phenanthrene	Pyrene
Well ID	**Date**													
2L GWQS		14	14	0.05	0.0047	0.047	210	0.479	4.79	280	0.0479	21	210	210
GCL		12500	12500	22	1.5	0.6	210	0.47	5	280	31	15500	410	210
UST820-PW01	2/1/2006	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
UST820-PW01	1/3/2007	2.10	2.10	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	6.80	BQL	BQL
UST820-PW01	10/17/2007	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL

Notes:
1. 2L GWQS = North Carolina groundwater quality standard 15A NCAC 2L .0202
2. GCL = Gross Contamination Levels for ground water as defined in "Guidelines for Assessment and Corrective Action" North Carolina Underground Storage Tank Section, effective July 1, 2001
3. All units are in ug/L (Micrograms per Liter)
4. BQL = Below Quantitaion Limits
5. A zero in the 2L GWQS row indicates the 2L Standard is equal to the laboratory detection limit
6. A zero in the GCL row indicates a GCL has not been established
7. Shaded concentrations indicate exceedance of the 2L GWQS
8. Only compounds which were detected are shown on table. All other compounds were BQL
9. Please note, compounds reported in duplicate columns are the result of multiple laboratories submitting EDD data with different nomenclature. Unless BQL appears in both duplicate columns, a detection is present and that concentration is reported numerically.

TABLE 14.4

SITE 820

GROUNDWATER LABORATORY ANALYTICAL RESULTS - JULY 2005 TO DECEMBER 2007

EPA METHOD 6010B

Contaminant of Concern →		
Well ID	**Date**	Lead
	2L GWQS	15
	GCL	15000
UST820-MW02	8/6/2005	BQL
UST820-MW02	2/1/2006	BQL
UST820-MW02	10/13/2006	BQL
UST820-MW02	10/23/2007	BQL
UST820-MW03	2/2/2006	BQL
UST820-MW03	10/13/2006	BQL
UST820-MW03	10/17/2007	BQL
UST820-MW04	2/5/2006	2.00
UST820-MW04	10/12/2006	1.70
UST820-MW04	10/18/2007	BQL

Notes:
1. 2L GWQS = North Carolina groundwater quality standard 15A NCAC 2L .0202
2. GCL = Gross Contamination Levels for ground water as defined in "Guidelines for Assessment and Corrective Action" North Carolina Underground Storage Tank Section, effective July 1, 2001
3. All units are in ug/L (Micrograms per Liter)
4. BQL = Below Quantitaion Limits
5. A zero in the 2L GWQS row indicates the 2L Standard is equal to the laboratory detection limit
6. A zero in the GCL row indicates a GCL has not been established
7. Shaded concentrations indicate exceedance of the 2L GWQS
8. Only compounds which were detected are shown on table. All other compounds were BQL
9. Please note, compounds reported in duplicate columns are the result of multiple laboratories submitting EDD data with different nomenclature. Unless BQL appears in both duplicate columns, a detection is present and that concentration is reported numerically.

TABLE 14.4

SITE 820

GROUNDWATER LABORATORY ANALYTICAL RESULTS - JULY 2005 TO DECEMBER 2007

EPA METHOD 6010B

Contaminant of Concern →		
Well ID	**Date**	**Lead**
2L GWQS		15
GCL		15000
UST820-MW05	8/6/2005	BQL
UST820-MW05	2/5/2006	3.50
UST820-MW05	10/12/2006	BQL
UST820-MW05	10/18/2007	8.80
UST820-MW06	2/2/2006	BQL
UST820-MW06	10/14/2006	BQL
UST820-MW06	10/21/2007	BQL

Notes:
1. 2L GWQS = North Carolina groundwater quality standard 15A NCAC 2L .0202
2. GCL = Gross Contamination Levels for ground water as defined in "Guidelines for Assessment and Corrective Action" North Carolina Underground Storage Tank Section, effective July 1, 2001
3. All units are in ug/L (Micrograms per Liter)
4. BQL = Below Quantitaion Limits
5. A zero in the 2L GWQS row indicates the 2L Standard is equal to the laboratory detection limit
6. A zero in the GCL row indicates a GCL has not been established
7. Shaded concentrations indicate exceedance of the 2L GWQS
8. Only compounds which were detected are shown on table. All other compounds were BQL
9. Please note, compounds reported in duplicate columns are the result of multiple laboratories submitting EDD data with different nomenclature. Unless BQL appears in both duplicate columns, a detection is present and that concentration is reported numerically.

TABLE 14.4

SITE 820

GROUNDWATER LABORATORY ANALYTICAL RESULTS - JULY 2005 TO DECEMBER 2007

EPA METHOD 6010B

Contaminant of Concern →		
Well ID	**Date**	Lead
2L GWQS		15
GCL		15000
UST820-MW07	8/9/2005	9.00
UST820-MW07	2/3/2006	3.60
UST820-MW07	10/16/2006	3.50
UST820-MW07	10/24/2007	BQL
UST820-MW08	8/9/2005	BQL
UST820-MW08	2/3/2006	2.10
UST820-MW08	10/16/2006	BQL
UST820-MW08	10/24/2007	BQL

Notes:
1. 2L GWQS = North Carolina groundwater quality standard 15A NCAC 2L .0202
2. GCL = Gross Contamination Levels for ground water as defined in "Guidelines for Assessment and Corrective Action" North Carolina Underground Storage Tank Section, effective July 1, 2001
3. All units are in ug/L (Micrograms per Liter)
4. BQL = Below Quantitaion Limits
5. A zero in the 2L GWQS row indicates the 2L Standard is equal to the laboratory detection limit
6. A zero in the GCL row indicates a GCL has not been established
7. Shaded concentrations indicate exceedance of the 2L GWQS
8. Only compounds which were detected are shown on table. All other compounds were BQL
9. Please note, compounds reported in duplicate columns are the result of multiple laboratories submitting EDD data with different nomenclature. Unless BQL appears in both duplicate columns, a detection is present and that concentration is reported numerically.

TABLE 14.4

SITE 820

GROUNDWATER LABORATORY ANALYTICAL RESULTS - JULY 2005 TO DECEMBER 2007

EPA METHOD 6010B

Contaminant of Concern →		
Well ID	**Date**	**Lead**
	2L GWQS	15
	GCL	15000
UST820-MW09	8/6/2005	BQL
UST820-MW09	2/1/2006	1.80
UST820-MW09	1/3/2007	BQL
UST820-MW09	10/23/2007	BQL
UST820-MW09D	8/6/2005	BQL
UST820-MW09D	2/1/2006	BQL
UST820-MW09D	10/14/2006	BQL
UST820-MW09D	10/21/2007	BQL
UST820-MW10	2/2/2006	4.30
UST820-MW10	10/17/2006	6.00

Notes:
1. 2L GWQS = North Carolina groundwater quality standard 15A NCAC 2L .0202
2. GCL = Gross Contamination Levels for ground water as defined in "Guidelines for Assessment and Corrective Action" North Carolina Underground Storage Tank Section, effective July 1, 2001
3. All units are in ug/L (Micrograms per Liter)
4. BQL = Below Quantitaion Limits
5. A zero in the 2L GWQS row indicates the 2L Standard is equal to the laboratory detection limit
6. A zero in the GCL row indicates a GCL has not been established
7. Shaded concentrations indicate exceedance of the 2L GWQS
8. Only compounds which were detected are shown on table. All other compounds were BQL
9. Please note, compounds reported in duplicate columns are the result of multiple laboratories submitting EDD data with different nomenclature. Unless BQL appears in both duplicate columns, a detection is present and that concentration is reported numerically.

TABLE 14.4

SITE 820

GROUNDWATER LABORATORY ANALYTICAL RESULTS - JULY 2005 TO DECEMBER 2007

EPA METHOD 6010B

Contaminant of Concern →		
Well ID	**Date**	Lead
	2L GWQS	15
	GCL	15000
UST820-MW11	2/5/2006	7.70
UST820-MW11	10/17/2006	3.60
UST820-MW11	10/18/2007	2.90
UST820-MW12	8/8/2005	BQL
UST820-MW12	2/2/2006	BQL
UST820-MW12	10/13/2006	BQL
UST820-MW12	10/18/2007	2.30

Notes:
1. 2L GWQS = North Carolina groundwater quality standard 15A NCAC 2L .0202
2. GCL = Gross Contamination Levels for ground water as defined in "Guidelines for Assessment and Corrective Action" North Carolina Underground Storage Tank Section, effective July 1, 2001
3. All units are in ug/L (Micrograms per Liter)
4. BQL = Below Quantitaion Limits
5. A zero in the 2L GWQS row indicates the 2L Standard is equal to the laboratory detection limit
6. A zero in the GCL row indicates a GCL has not been established
7. Shaded concentrations indicate exceedance of the 2L GWQS
8. Only compounds which were detected are shown on table. All other compounds were BQL
9. Please note, compounds reported in duplicate columns are the result of multiple laboratories submitting EDD data with different nomenclature. Unless BQL appears in both duplicate columns, a detection is present and that concentration is reported numerically.

TABLE 14.4

SITE 820

GROUNDWATER LABORATORY ANALYTICAL RESULTS - JULY 2005 TO DECEMBER 2007

EPA METHOD 6010B

Contaminant of Concern →		
Well ID	**Date**	Lead
	2L GWQS	15
	GCL	15000
UST820-MW13	8/6/2005	7.30
UST820-MW13	2/2/2006	BQL
UST820-MW13	10/13/2006	1.90
UST820-MW13	10/18/2007	6.80
UST820-MW14	8/9/2005	BQL
UST820-MW14	2/3/2006	BQL
UST820-MW14	10/16/2006	BQL
UST820-MW14	10/19/2007	BQL

Notes:
1. 2L GWQS = North Carolina groundwater quality standard 15A NCAC 2L .0202
2. GCL = Gross Contamination Levels for ground water as defined in "Guidelines for Assessment and Corrective Action" North Carolina Underground Storage Tank Section, effective July 1, 2001
3. All units are in ug/L (Micrograms per Liter)
4. BQL = Below Quantitaion Limits
5. A zero in the 2L GWQS row indicates the 2L Standard is equal to the laboratory detection limit
6. A zero in the GCL row indicates a GCL has not been established
7. Shaded concentrations indicate exceedance of the 2L GWQS
8. Only compounds which were detected are shown on table. All other compounds were BQL
9. Please note, compounds reported in duplicate columns are the result of multiple laboratories submitting EDD data with different nomenclature. Unless BQL appears in both duplicate columns, a detection is present and that concentration is reported numerically.

TABLE 14.4

SITE 820

GROUNDWATER LABORATORY ANALYTICAL RESULTS - JULY 2005 TO DECEMBER 2007

EPA METHOD 6010B

Contaminant of Concern →		
Well ID	**Date**	Lead
	2L GWQS	15
	GCL	15000
UST820-MW15	8/6/2005	BQL
UST820-MW15	2/2/2006	BQL
UST820-MW15	10/12/2006	BQL
UST820-MW15	10/15/2007	BQL
UST820-MW16	8/8/2005	18.70
UST820-MW16	2/2/2006	BQL
UST820-MW16	10/16/2006	8.10
UST820-MW16	10/23/2007	2.30

Notes:
1. 2L GWQS = North Carolina groundwater quality standard 15A NCAC 2L .0202
2. GCL = Gross Contamination Levels for ground water as defined in "Guidelines for Assessment and Corrective Action" North Carolina Underground Storage Tank Section, effective July 1, 2001
3. All units are in ug/L (Micrograms per Liter)
4. BQL = Below Quantitaion Limits
5. A zero in the 2L GWQS row indicates the 2L Standard is equal to the laboratory detection limit
6. A zero in the GCL row indicates a GCL has not been established
7. Shaded concentrations indicate exceedance of the 2L GWQS
8. Only compounds which were detected are shown on table. All other compounds were BQL
9. Please note, compounds reported in duplicate columns are the result of multiple laboratories submitting EDD data with different nomenclature. Unless BQL appears in both duplicate columns, a detection is present and that concentration is reported numerically.

TABLE 14.4

SITE 820

GROUNDWATER LABORATORY ANALYTICAL RESULTS - JULY 2005 TO DECEMBER 2007

EPA METHOD 6010B

Contaminant of Concern →		
Well ID	**Date**	Lead
	2L GWQS	15
	GCL	15000
UST820-MW17	8/8/2005	BQL
UST820-MW17	2/2/2006	5.20
UST820-MW17	10/16/2006	BQL
UST820-MW17	10/23/2007	BQL
UST820-MW18	2/2/2006	BQL
UST820-MW18	10/17/2006	BQL
UST820-MW18	10/23/2007	6.50
UST820-MW19	8/8/2005	BQL
UST820-MW19	10/17/2006	BQL

Notes:
1. 2L GWQS = North Carolina groundwater quality standard 15A NCAC 2L .0202
2. GCL = Gross Contamination Levels for ground water as defined in "Guidelines for Assessment and Corrective Action" North Carolina Underground Storage Tank Section, effective July 1, 2001
3. All units are in ug/L (Micrograms per Liter)
4. BQL = Below Quantitaion Limits
5. A zero in the 2L GWQS row indicates the 2L Standard is equal to the laboratory detection limit
6. A zero in the GCL row indicates a GCL has not been established
7. Shaded concentrations indicate exceedance of the 2L GWQS
8. Only compounds which were detected are shown on table. All other compounds were BQL
9. Please note, compounds reported in duplicate columns are the result of multiple laboratories submitting EDD data with different nomenclature. Unless BQL appears in both duplicate columns, a detection is present and that concentration is reported numerically.

TABLE 14.4

SITE 820

GROUNDWATER LABORATORY ANALYTICAL RESULTS - JULY 2005 TO DECEMBER 2007

EPA METHOD 6010B

Contaminant of Concern →		
Well ID	**Date**	Lead
2L GWQS		15
GCL		15000
UST820-MW20	8/9/2005	6.10
UST820-MW20	2/2/2006	BQL
UST820-MW20	10/17/2006	BQL
UST820-MW20	10/23/2007	BQL
UST820-MW21	8/9/2005	BQL
UST820-MW21	2/2/2006	7.20
UST820-MW21	10/17/2006	1.70
UST820-MW21	10/23/2007	BQL

Notes:
1. 2L GWQS = North Carolina groundwater quality standard 15A NCAC 2L .0202
2. GCL = Gross Contamination Levels for ground water as defined in "Guidelines for Assessment and Corrective Action" North Carolina Underground Storage Tank Section, effective July 1, 2001
3. All units are in ug/L (Micrograms per Liter)
4. BQL = Below Quantitaion Limits
5. A zero in the 2L GWQS row indicates the 2L Standard is equal to the laboratory detection limit
6. A zero in the GCL row indicates a GCL has not been established
7. Shaded concentrations indicate exceedance of the 2L GWQS
8. Only compounds which were detected are shown on table. All other compounds were BQL
9. Please note, compounds reported in duplicate columns are the result of multiple laboratories submitting EDD data with different nomenclature. Unless BQL appears in both duplicate columns, a detection is present and that concentration is reported numerically.

TABLE 14.4

SITE 820

GROUNDWATER LABORATORY ANALYTICAL RESULTS - JULY 2005 TO DECEMBER 2007

EPA METHOD 6010B

Contaminant of Concern →		
Well ID	**Date**	**Lead**
	2L GWQS	15
	GCL	15000
UST820-MW22	2/3/2006	BQL
UST820-MW22	10/18/2006	BQL
UST820-MW22	10/24/2007	BQL
UST820-MW23	2/3/2006	2.10
UST820-MW23	10/18/2006	BQL
UST820-MW23	10/24/2007	BQL
UST820-MW24	8/9/2005	9.50
UST820-MW24	2/2/2006	18.20
UST820-MW24	10/16/2006	4.20
UST820-MW24	10/19/2007	2.40

Notes:
1. 2L GWQS = North Carolina groundwater quality standard 15A NCAC 2L .0202
2. GCL = Gross Contamination Levels for ground water as defined in "Guidelines for Assessment and Corrective Action" North Carolina Underground Storage Tank Section, effective July 1, 2001
3. All units are in ug/L (Micrograms per Liter)
4. BQL = Below Quantitaion Limits
5. A zero in the 2L GWQS row indicates the 2L Standard is equal to the laboratory detection limit
6. A zero in the GCL row indicates a GCL has not been established
7. Shaded concentrations indicate exceedance of the 2L GWQS
8. Only compounds which were detected are shown on table. All other compounds were BQL
9. Please note, compounds reported in duplicate columns are the result of multiple laboratories submitting EDD data with different nomenclature. Unless BQL appears in both duplicate columns, a detection is present and that concentration is reported numerically.

TABLE 14.4

SITE 820

GROUNDWATER LABORATORY ANALYTICAL RESULTS - JULY 2005 TO DECEMBER 2007

EPA METHOD 6010B

Contaminant of Concern →		
Well ID	**Date**	**Lead**
	2L GWQS	15
	GCL	15000
UST820-MW25	8/8/2005	BQL
UST820-MW25	2/2/2006	6.90
UST820-MW25	10/16/2006	1.80
UST820-MW25	10/19/2007	BQL
UST820-MW26	8/9/2005	7.50
UST820-MW26	2/5/2006	7.30
UST820-MW26	10/13/2006	BQL
UST820-MW26	10/19/2007	BQL

Notes:
1. 2L GWQS = North Carolina groundwater quality standard 15A NCAC 2L .0202
2. GCL = Gross Contamination Levels for ground water as defined in "Guidelines for Assessment and Corrective Action" North Carolina Underground Storage Tank Section, effective July 1, 2001
3. All units are in ug/L (Micrograms per Liter)
4. BQL = Below Quantitaion Limits
5. A zero in the 2L GWQS row indicates the 2L Standard is equal to the laboratory detection limit
6. A zero in the GCL row indicates a GCL has not been established
7. Shaded concentrations indicate exceedance of the 2L GWQS
8. Only compounds which were detected are shown on table. All other compounds were BQL
9. Please note, compounds reported in duplicate columns are the result of multiple laboratories submitting EDD data with different nomenclature. Unless BQL appears in both duplicate columns, a detection is present and that concentration is reported numerically.

TABLE 14.4

SITE 820

GROUNDWATER LABORATORY ANALYTICAL RESULTS - JULY 2005 TO DECEMBER 2007

EPA METHOD 6010B

Contaminant of Concern →		
Well ID	**Date**	Lead
	2L GWQS	15
	GCL	15000
UST820-MW27	8/6/2005	BQL
UST820-MW27	2/5/2006	4.10
UST820-MW27	10/17/2006	2.40
UST820-MW27	10/21/2007	BQL
UST820-MW28	8/9/2005	BQL
UST820-MW28	2/5/2006	BQL
UST820-MW28	10/18/2006	BQL
UST820-MW28	10/15/2007	BQL

Notes:
1. 2L GWQS = North Carolina groundwater quality standard 15A NCAC 2L .0202
2. GCL = Gross Contamination Levels for ground water as defined in "Guidelines for Assessment and Corrective Action" North Carolina Underground Storage Tank Section, effective July 1, 2001
3. All units are in ug/L (Micrograms per Liter)
4. BQL = Below Quantitaion Limits
5. A zero in the 2L GWQS row indicates the 2L Standard is equal to the laboratory detection limit
6. A zero in the GCL row indicates a GCL has not been established
7. Shaded concentrations indicate exceedance of the 2L GWQS
8. Only compounds which were detected are shown on table. All other compounds were BQL
9. Please note, compounds reported in duplicate columns are the result of multiple laboratories submitting EDD data with different nomenclature. Unless BQL appears in both duplicate columns, a detection is present and that concentration is reported numerically.

TABLE 14.4

SITE 820

GROUNDWATER LABORATORY ANALYTICAL RESULTS - JULY 2005 TO DECEMBER 2007

EPA METHOD 6010B

Contaminant of Concern →		
Well ID	**Date**	**Lead**
2L GWQS		15
GCL		15000
UST820-MW29	8/9/2005	BQL
UST820-MW29	2/3/2006	14.60
UST820-MW29	10/18/2006	BQL
UST820-MW29	10/18/2007	BQL
UST820-MW30	10/14/2006	BQL
UST820-MW30	10/18/2007	BQL
UST820-MW31	10/14/2006	BQL
UST820-MW31	10/15/2007	BQL

Notes:
1. 2L GWQS = North Carolina groundwater quality standard 15A NCAC 2L .0202
2. GCL = Gross Contamination Levels for ground water as defined in "Guidelines for Assessment and Corrective Action" North Carolina Underground Storage Tank Section, effective July 1, 2001
3. All units are in ug/L (Micrograms per Liter)
4. BQL = Below Quantitaion Limits
5. A zero in the 2L GWQS row indicates the 2L Standard is equal to the laboratory detection limit
6. A zero in the GCL row indicates a GCL has not been established
7. Shaded concentrations indicate exceedance of the 2L GWQS
8. Only compounds which were detected are shown on table. All other compounds were BQL
9. Please note, compounds reported in duplicate columns are the result of multiple laboratories submitting EDD data with different nomenclature. Unless BQL appears in both duplicate columns, a detection is present and that concentration is reported numerically.

TABLE 14.4

SITE 820

GROUNDWATER LABORATORY ANALYTICAL RESULTS - JULY 2005 TO DECEMBER 2007

EPA METHOD 6010B

Contaminant of Concern →		
Well ID	**Date**	**Lead**
	2L GWQS	15
	GCL	15000
UST820-MW32	10/14/2006	BQL
UST820-MW32	10/15/2007	BQL
UST820-MW33	10/18/2006	2.60
UST820-MW33	10/24/2007	BQL
UST820-MW34	10/18/2006	BQL
UST820-MW34	10/15/2007	BQL
UST820-PW01	2/1/2006	2.00
UST820-PW01	1/3/2007	BQL
UST820-PW01	10/17/2007	BQL

Notes:
1. 2L GWQS = North Carolina groundwater quality standard 15A NCAC 2L .0202
2. GCL = Gross Contamination Levels for ground water as defined in "Guidelines for Assessment and Corrective Action" North Carolina Underground Storage Tank Section, effective July 1, 2001
3. All units are in ug/L (Micrograms per Liter)
4. BQL = Below Quantitaion Limits
5. A zero in the 2L GWQS row indicates the 2L Standard is equal to the laboratory detection limit
6. A zero in the GCL row indicates a GCL has not been established
7. Shaded concentrations indicate exceedance of the 2L GWQS
8. Only compounds which were detected are shown on table. All other compounds were BQL
9. Please note, compounds reported in duplicate columns are the result of multiple laboratories submitting EDD data with different nomenclature. Unless BQL appears in both duplicate columns, a detection is present and that concentration is reported numerically.

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STONE STREET
VIRGINIA STREET
IOWA COURT
IDAHO COURT
BICENTENNIAL AVENUE

UST820-MW31
UST820-MW30
UST820-MW32
UST820-MW15
UST820-MW28
UST820-MW34
UST820-MW33
UST820-MW27
UST820-MW11
UST820-MW14
UST820-MW16
UST820-MW04
UST820-MW09D
UST820-MW29
UST820-MW05
UST820-MW02
UST820-MW09
UST820-MW26
UST820-MW17
UST820-MW03
UST820-PW01
UST820-MW13
UST820-MW18
UST820-MW12
UST820-MW06
UST820-MW19
UST820-MW07
UST820-MW10
UST820-MW08
UST820-MW20
UST820-MW21
UST820-MW22
UST820-MW25
UST820-MW23
UST820-MW24

MFC DATM820
820
822
1985
5721
5768
S865

5950A 5950B 5950C 5950D
5997D 5997C 5997B 5997A
5965A 5965B 5965C
5940A 5940B 5940C 5940D
5959D 5959C 5959B 5959A
5930A 5930B 5930C 5930D
5955D 5955C 5955B 5955A
5931A 5931B
5935A 5935B
5920A 5920B 5920C 5920D
5949D 5949C 5949B 5949A
5941D
5910A 5910B 5910C 5910D
5900A

100 50 0 100 Feet
SCALE

LEGEND

Monitoring Wells
- Type I
- Type II
- Type III
- Pumping Well
- Unknown Well Type
- Water Supply Wells
- Above Ground Storage Tank
- Underground Storage Tank
- Railroad Tracks

Walls and Fences
- FENCE
- GATE
- WALL

Free Product
- Free Product Detected
- No Measurable Thickness
- Free Product Plume
- Buildings and Structures
- Demolished Structures
- Oil/Water Separators
- Slabs
- Roads
- Driveways
- Parking Lots
- Surface Water Bodies
- Creeks and Streams
- Historical Groundwater Flow Direction

Vegetation Cover
- Forestland
- Scrubland
- Wetland

Airfield Pavement
- HELIPAD
- RAMP
- RUNWAY
- SHLDR_OVERRUN
- TAXIWAY

NOTES

1. Free Product was not detected at this site in any of the wells gauged during this monitoring event.
2. Please note, monitoring wells UST820-MW09 and UST820-PW01 were gauged during the first quarter 2007 and not the fourth quarter 2006.

CATLIN
Engineers and Scientists

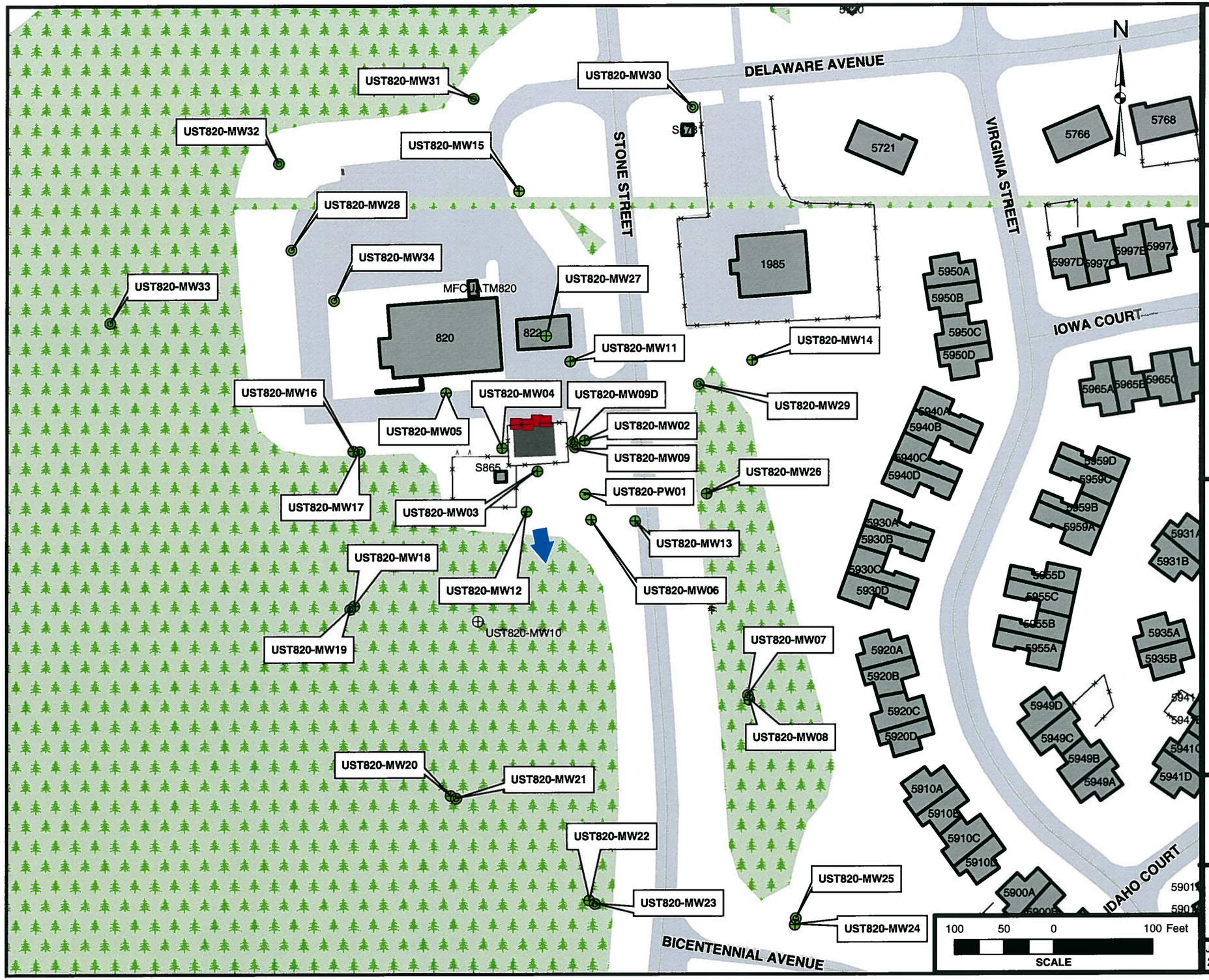
SITE 820
FREE PRODUCT PLUME MAP
FOURTH QUARTER 2006

FIGURE
14.1A

Job No.:	Date:	Scale:	Drawn By:	Checked By:
207-002	DEC 2007	AS SHOWN	SAC	MEM

MCB CAMP LEJEUNE
UST MANAGEMENT PROGRAM
CALENDAR YEAR 2007

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Naval Facilities Engineering Command



LEGEND

Monitoring Wells
- Type I
- Type II
- Type III
- Pumping Well
- Unknown Well Type
- Water Supply Wells
- Above Ground Storage Tank
- Underground Storage Tank
- Railroad Tracks

Walls and Fences
- FENCE
- GATE
- WALL

Free Product
- Free Product Detected
- No Measurable Thickness
- Free Product Plume
- Buildings and Structures
- Demolished Structures
- Oil/Water Separators
- Slabs
- Roads
- Driveways
- Parking Lots
- Surface Water Bodies
- Creeks and Streams
- Historical Groundwater Flow Direction

Vegetation Cover
- Forestland
- Scrubland
- Wetland

Airfield Pavement
- HELIPAD
- RAMP
- RUNWAY
- SHLDR_OVERRUN
- TAXIWAY

NOTES

1. Free Product was not detected at this site in any of the wells gauged during this monitoring event.

CATLIN
Engineers and Scientists

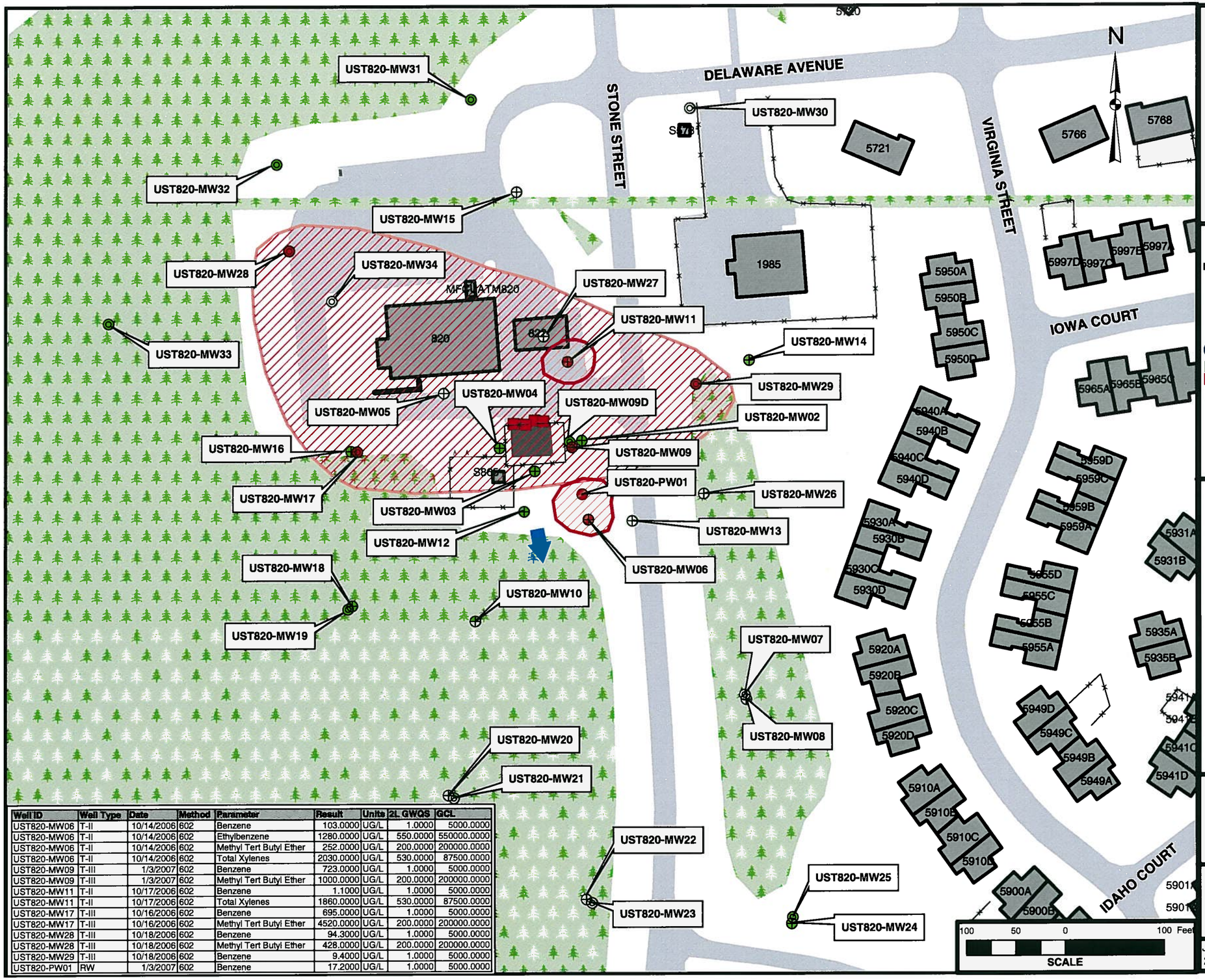
SITE 820
FREE PRODUCT PLUME MAP
FOURTH QUARTER 2007

FIGURE
14.1B

Job No.:	Date:	Scale:	Drawn By:	Checked By:
207-002	DEC 2007	AS SHOWN	SAC	MEM

MCB CAMP LEJEUNE
UST MANAGEMENT PROGRAM
CALENDAR YEAR 2007

NAVFAC
Naval Facilities Engineering Command



LEGEND

Monitoring Wells
- Type I
- Type II
- Type III
- Pumping Well
- Unknown Well Type
- Water Supply Wells
- Above Ground Storage Tank
- Underground Storage Tank
- Railroad Tracks

Walls and Fences
- FENCE
- GATE
- WALL

Analytical Results
- Free Product Detected
- 2L Non-Compliant
- 2L Compliant
- Shallow EPA 602 Plume (Less than 40' BLS)
- Deep EPA 602 Plume (Greater than 40' BLS)
- Buildings and Structures
- Demolished Structures
- Oil/Water Separators
- Slabs
- Roads
- Driveways
- Parking Lots
- Surface Water Bodies
- Creeks and Streams
- Historical Groundwater Flow Direction

Vegetation Cover
- Forestland
- Scrubland
- Wetland

Airfield Pavement
- HELIPAD
- RAMP
- RUNWAY
- SHLDR_OVERRUN
- TAXIWAY

NOTES

1. 2L Standard refers to North Carolina Groundwater Quality Standard 15A NCAC 2L.0202.
2. GCL refers to Gross Contaminant Level as defined in "Guidelines for the Assessment and Corrective Action" North Carolina Underground Storage Tank Section, effective July 1, 2001.
3. A 2L Standard of "0.00" implies a standard has not yet been established. According to NCAC T15:02L, any compound found above laboratory detection limits is considered noncompliant unless otherwise specified by the NCDENR.
4. EPA Method 602 contaminants were not detected above the 2L GWQSs in any of the deep monitorng wells UST820-MW09D or UST820-MW34 (screened at approximately 100' BLS).
5. Please note, monitoring wells UST820-MW09 and UST820-PW01 were sampled during the first quarter 2007 and not the fourth quarter 2006.

Well ID	Well Type	Date	Method	Parameter	Result	Units	2L GWQS	GCL
UST820-MW06	T-II	10/14/2006	602	Benzene	103.0000	UG/L	1.0000	5000.0000
UST820-MW06	T-II	10/14/2006	602	Ethylbenzene	1280.0000	UG/L	550.0000	550000.0000
UST820-MW06	T-II	10/14/2006	602	Methyl Tert Butyl Ether	252.0000	UG/L	200.0000	200000.0000
UST820-MW06	T-II	10/14/2006	602	Total Xylenes	2030.0000	UG/L	530.0000	87500.0000
UST820-MW09	T-III	1/3/2007	602	Benzene	723.0000	UG/L	1.0000	5000.0000
UST820-MW09	T-III	1/3/2007	602	Methyl Tert Butyl Ether	1000.0000	UG/L	200.0000	200000.0000
UST820-MW11	T-II	10/17/2006	602	Benzene	1.1000	UG/L	1.0000	5000.0000
UST820-MW11	T-II	10/17/2006	602	Total Xylenes	1860.0000	UG/L	530.0000	87500.0000
UST820-MW17	T-III	10/16/2006	602	Benzene	695.0000	UG/L	1.0000	5000.0000
UST820-MW17	T-III	10/16/2006	602	Methyl Tert Butyl Ether	4520.0000	UG/L	200.0000	200000.0000
UST820-MW28	T-III	10/18/2006	602	Benzene	94.3000	UG/L	1.0000	5000.0000
UST820-MW28	T-III	10/18/2006	602	Methyl Tert Butyl Ether	428.0000	UG/L	200.0000	200000.0000
UST820-MW29	T-III	10/18/2006	602	Benzene	9.4000	UG/L	1.0000	5000.0000
UST820-PW01	RW	1/3/2007	602	Benzene	17.2000	UG/L	1.0000	5000.0000

CATLIN
Engineers and Scientists

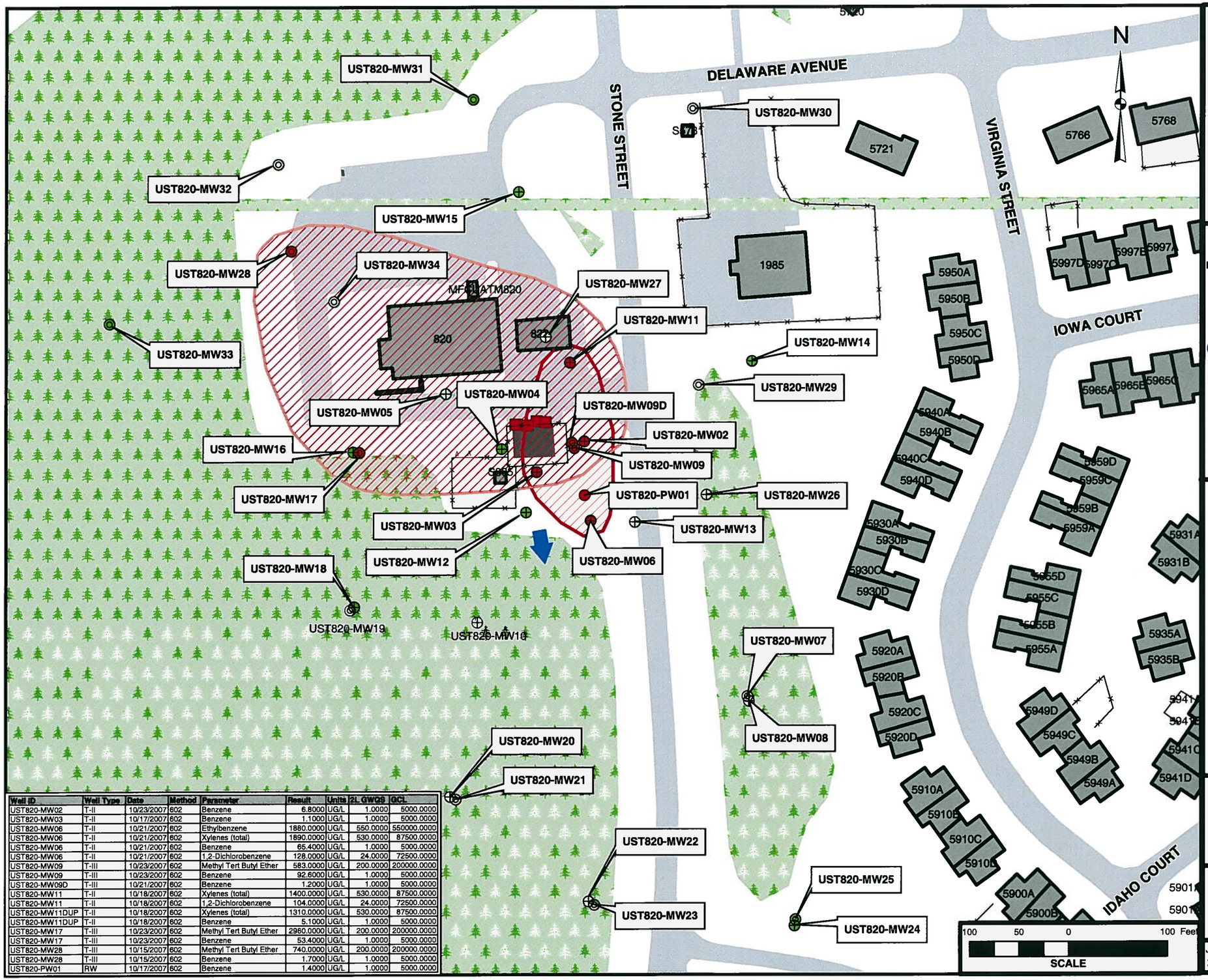
SITE 820
EPA METHOD 602 COLORIMETRY AND PLUME IN EXCESS OF 2L FOURTH QUARTER 2006

FIGURE **14.2A**

Job No.:	Date:	Scale:	Drawn By:	Checked By:
207-002	DEC 2007	AS SHOWN	SAC	MEM

MCB CAMP LEJEUNE
UST MANAGEMENT PROGRAM
CALENDAR YEAR 2007

NAVFAC
Naval Facilities Engineering Command



LEGEND

Monitoring Wells
- Type I
- Type II
- Type III
- Pumping Well
- Unknown Well Type
- Water Supply Wells
- Above Ground Storage Tank
- Underground Storage Tank
- Railroad Tracks

Walls and Fences
- FENCE
- GATE
- WALL

Analytical Results
- Free Product Detected
- 2L Non-Compliant
- 2L Compliant
- Shallow EPA 602 Plume (Less than 40' BLS)
- Deep EPA 602 Plume (Greater than 40' BLS)
- Buildings and Structures
- Demolished Structures
- Oil/Water Separators
- Slabs
- Roads
- Driveways
- Parking Lots
- Surface Water Bodies
- Creeks and Streams
- Historical Groundwater Flow Direction

Vegetation Cover
- Forestland
- Scrubland
- Wetland

Airfield Pavement
- HELIPAD
- RAMP
- RUNWAY
- SHLDR_OVERRUN
- TAXIWAY

NOTES

1. 2L Standard refers to North Carolina Groundwater Quality Standard 15A NCAC 2L.0202.
2. GCL refers to Gross Contaminant Level as defined in "Guidelines for the Assessment and Corrective Action" North Carolina Underground Storage Tank Section, effective July 1, 2001.
3. A 2L Standard of "0.00" implies a standard has not yet been established. According to NCAC T15:02L, any compound found above laboratory detection limits is considered noncompliant unless otherwise specified by the NCDENR.
4. EPA Method 602 contaminants were not detected above the 2L GWQSs in the deep monitorng well UST820-MW34 (screened at approximately 100' BLS). However, Benzene was detected above the 2L GWQS in UST820-MW09D (screened at approximately 100' BLS).

Well ID	Well Type	Date	Method	Parameter	Result	Units	2L GWQS	GCL
UST820-MW02	T-II	10/23/2007	602	Benzene	6.8000	UG/L	1.0000	5000.0000
UST820-MW03	T-II	10/17/2007	602	Benzene	1.1000	UG/L	1.0000	5000.0000
UST820-MW06	T-II	10/21/2007	602	Ethylbenzene	1880.0000	UG/L	550.0000	550000.0000
UST820-MW06	T-II	10/21/2007	602	Xylenes (total)	1890.0000	UG/L	530.0000	87500.0000
UST820-MW06	T-II	10/21/2007	602	Benzene	65.4000	UG/L	1.0000	5000.0000
UST820-MW06	T-II	10/21/2007	602	1,2-Dichlorobenzene	128.0000	UG/L	24.0000	72500.0000
UST820-MW09	T-III	10/23/2007	602	Methyl Tert Butyl Ether	583.0000	UG/L	200.0000	200000.0000
UST820-MW09	T-III	10/23/2007	602	Benzene	92.6000	UG/L	1.0000	5000.0000
UST820-MW09D	T-III	10/21/2007	602	Benzene	1.2000	UG/L	1.0000	5000.0000
UST820-MW11	T-II	10/18/2007	602	Xylenes (total)	1400.0000	UG/L	530.0000	87500.0000
UST820-MW11	T-II	10/18/2007	602	1,2-Dichlorobenzene	104.0000	UG/L	24.0000	72500.0000
UST820-MW11DUP	T-II	10/18/2007	602	Xylenes (total)	1310.0000	UG/L	530.0000	87500.0000
UST820-MW11DUP	T-II	10/18/2007	602	Benzene	5.1000	UG/L	1.0000	5000.0000
UST820-MW17	T-III	10/23/2007	602	Methyl Tert Butyl Ether	2960.0000	UG/L	200.0000	200000.0000
UST820-MW17	T-III	10/23/2007	602	Benzene	53.4000	UG/L	1.0000	5000.0000
UST820-MW28	T-III	10/15/2007	602	Methyl Tert Butyl Ether	740.0000	UG/L	200.0000	200000.0000
UST820-MW28	T-III	10/15/2007	602	Benzene	1.7000	UG/L	1.0000	5000.0000
UST820-PW01	RW	10/17/2007	602	Benzene	1.4000	UG/L	1.0000	5000.0000

CATLIN
Engineers and Scientists

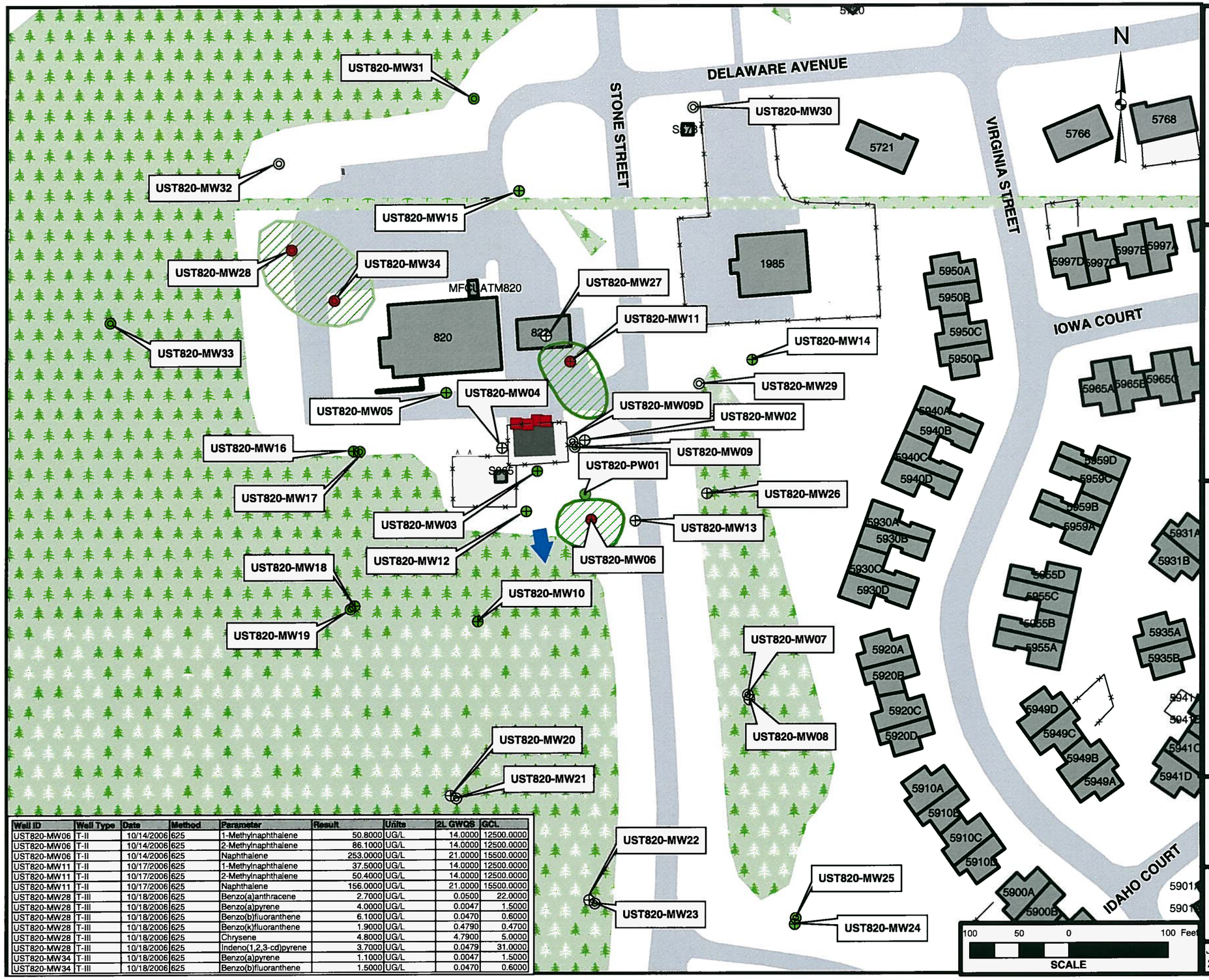
SITE 820
EPA METHOD 602 COLORIMETRY AND PLUME IN EXCESS OF 2L FOURTH QUARTER 2007

FIGURE
14.2B

Job No.:	Date:	Scale:	Drawn By:	Checked By:
207-002	DEC 2007	AS SHOWN	SAC	MEM

MCB CAMP LEJEUNE
UST MANAGEMENT PROGRAM
CALENDAR YEAR 2007

NAVFAC
Naval Facilities Engineering Command



Well ID	Well Type	Date	Method	Parameter	Result	Units	2L GWQS	GCL
UST820-MW06	T-II	10/14/2006	625	1-Methylnaphthalene	50.8000	UG/L	14.0000	12500.0000
UST820-MW06	T-II	10/14/2006	625	2-Methylnaphthalene	86.1000	UG/L	14.0000	12500.0000
UST820-MW06	T-II	10/14/2006	625	Naphthalene	253.0000	UG/L	21.0000	15500.0000
UST820-MW11	T-II	10/17/2006	625	1-Methylnaphthalene	37.5000	UG/L	14.0000	12500.0000
UST820-MW11	T-II	10/17/2006	625	2-Methylnaphthalene	50.4000	UG/L	14.0000	12500.0000
UST820-MW11	T-II	10/17/2006	625	Naphthalene	156.0000	UG/L	21.0000	15500.0000
UST820-MW28	T-III	10/18/2006	625	Benzo(a)anthracene	2.7000	UG/L	0.0500	22.0000
UST820-MW28	T-III	10/18/2006	625	Benzo(a)pyrene	4.0000	UG/L	0.0047	1.5000
UST820-MW28	T-III	10/18/2006	625	Benzo(b)fluoranthene	6.1000	UG/L	0.0470	0.6000
UST820-MW28	T-III	10/18/2006	625	Benzo(k)fluoranthene	1.9000	UG/L	0.4790	0.4700
UST820-MW28	T-III	10/18/2006	625	Chrysene	4.8000	UG/L	4.7900	5.0000
UST820-MW28	T-III	10/18/2006	625	Indeno(1,2,3-cd)pyrene	3.7000	UG/L	0.0479	31.0000
UST820-MW34	T-III	10/18/2006	625	Benzo(a)pyrene	1.1000	UG/L	0.0047	1.5000
UST820-MW34	T-III	10/18/2006	625	Benzo(b)fluoranthene	1.5000	UG/L	0.0470	0.6000

LEGEND

Monitoring Wells
- Type I
- Type II
- Type III
- Pumping Well
- Unknown Well Type
- Water Supply Wells
- Above Ground Storage Tank
- Underground Storage Tank
- Railroad Tracks

Walls and Fences
- FENCE
- GATE
- WALL

Analytical Results
- Free Product Detected
- 2L Non-Compliant
- 2L Compliant
- Shallow EPA 625 Plume (Less than 40' BLS)
- Deep EPA 625 Plume (Greater than 40' BLS)
- Buildings and Structures
- Demolished Structures
- Oil/Water Separators
- Slabs
- Roads
- Driveways
- Parking Lots
- Surface Water Bodies
- Creeks and Streams
- Historical Groundwater Flow Direction

Vegetation Cover
- Forestland
- Scrubland
- Wetland

Airfield Pavement
- HELIPAD
- RAMP
- RUNWAY
- SHLDR_OVERRUN
- TAXIWAY

NOTES

1. 2L Standard refers to North Carolina Groundwater Quality Standard 15A NCAC 2L.0202.
2. GCL refers to Gross Contaminant Level as defined in "Guidelines for the Assessment and Corrective Action" North Carolina Underground Storage Tank Section, effective July 1, 2001.
3. A 2L Standard of "0.00" implies a standard has not yet been established. According to NCAC T15:02L, any compound found above laboratory detection limits is considered noncompliant unless otherwise specified by the NCDENR.
4. EPA Method 625 contaminants were not detected above the 2L GWQSs in the deep monitorng well UST820-MW09D (screened at approximately 100' BLS). However, contaminants were detected above the 2L GWQS in UST820-MW34 (screened at approximately 100' BLS).

CATLIN
Engineers and Scientists

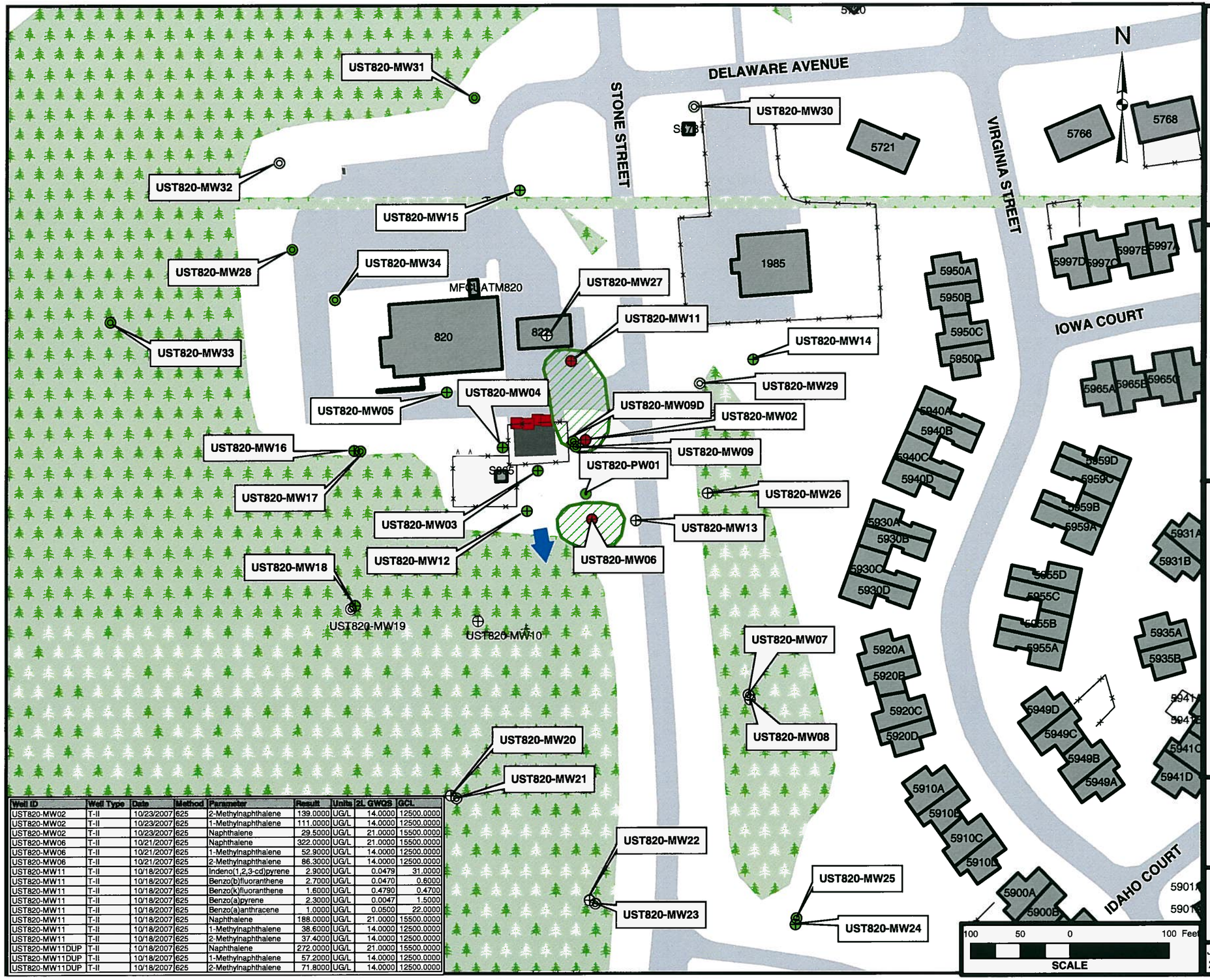
SITE 820
EPA METHOD 625 COLORIMETRY AND PLUME IN EXCESS OF 2L FOURTH QUARTER 2006

FIGURE
14.3A

Job No.:	Date:	Scale:	Drawn By:	Checked By:
207-002	DEC 2007	AS SHOWN	SAC	MEM

MCB CAMP LEJEUNE
UST MANAGEMENT PROGRAM
CALENDAR YEAR 2007

NAVFAC
Naval Facilities Engineering Command



Well ID	Well Type	Date	Method	Parameter	Result	Units	2L GWQS	GCL
UST820-MW02	T-II	10/23/2007	625	2-Methylnaphthalene	139.0000	UG/L	14.0000	12500.0000
UST820-MW02	T-II	10/23/2007	625	1-Methylnaphthalene	111.0000	UG/L	14.0000	12500.0000
UST820-MW02	T-II	10/23/2007	625	Naphthalene	29.5000	UG/L	21.0000	15500.0000
UST820-MW06	T-II	10/21/2007	625	Naphthalene	322.0000	UG/L	21.0000	15500.0000
UST820-MW06	T-II	10/21/2007	625	1-Methylnaphthalene	52.9000	UG/L	14.0000	12500.0000
UST820-MW06	T-II	10/21/2007	625	2-Methylnaphthalene	86.3000	UG/L	14.0000	12500.0000
UST820-MW11	T-II	10/18/2007	625	Indeno(1,2,3-cd)pyrene	2.9000	UG/L	0.0479	31.0000
UST820-MW11	T-II	10/18/2007	625	Benzo(b)fluoranthene	2.7000	UG/L	0.0470	0.6000
UST820-MW11	T-II	10/18/2007	625	Benzo(k)fluoranthene	1.6000	UG/L	0.4790	0.4700
UST820-MW11	T-II	10/18/2007	625	Benzo(a)pyrene	2.3000	UG/L	0.0047	1.5000
UST820-MW11	T-II	10/18/2007	625	Benzo(a)anthracene	1.0000	UG/L	0.0500	22.0000
UST820-MW11	T-II	10/18/2007	625	Naphthalene	188.0000	UG/L	21.0000	15500.0000
UST820-MW11	T-II	10/18/2007	625	1-Methylnaphthalene	38.6000	UG/L	14.0000	12500.0000
UST820-MW11	T-II	10/18/2007	625	2-Methylnaphthalene	37.4000	UG/L	14.0000	12500.0000
UST820-MW11DUP	T-II	10/18/2007	625	Naphthalene	272.0000	UG/L	21.0000	15500.0000
UST820-MW11DUP	T-II	10/18/2007	625	1-Methylnaphthalene	57.2000	UG/L	14.0000	12500.0000
UST820-MW11DUP	T-II	10/18/2007	625	2-Methylnaphthalene	71.8000	UG/L	14.0000	12500.0000

LEGEND

Monitoring Wells
- Type I
- Type II
- Type III
- Pumping Well
- Unknown Well Type
- Water Supply Wells
- Above Ground Storage Tank
- Underground Storage Tank
- Railroad Tracks

Walls and Fences
- FENCE
- GATE
- WALL

Analytical Results
- Free Product Detected
- 2L Non-Compliant
- 2L Compliant
- Shallow EPA 625 Plume (Less than 40' BLS)
- Deep EPA 625 Plume (Greater than 40' BLS)
- Buildings and Structures
- Demolished Structures
- Oil/Water Separators
- Slabs
- Roads
- Driveways
- Parking Lots
- Surface Water Bodies
- Creeks and Streams
- Historical Groundwater Flow Direction

Vegetation Cover
- Forestland
- Scrubland
- Wetland

Airfield Pavement
- HELIPAD
- RAMP
- RUNWAY
- SHLDR_OVERRUN
- TAXIWAY

NOTES

1. 2L Standard refers to North Carolina Groundwater Quality Standard 15A NCAC 2L.0202.
2. GCL refers to Gross Contaminant Level as defined in "Guidelines for the Assessment and Corrective Action" North Carolina Underground Storage Tank Section, effective July 1, 2001.
3. A 2L Standard of "0.00" implies a standard has not yet been established. According to NCAC T15:02L, any compound found above laboratory detection limits is considered noncompliant unless otherwise specified by the NCDENR.
4. EPA Method 625 contaminants were not detected above the 2L GWQSs in any wells screened greater than 40 feet BLS.

CATLIN
Engineers and Scientists

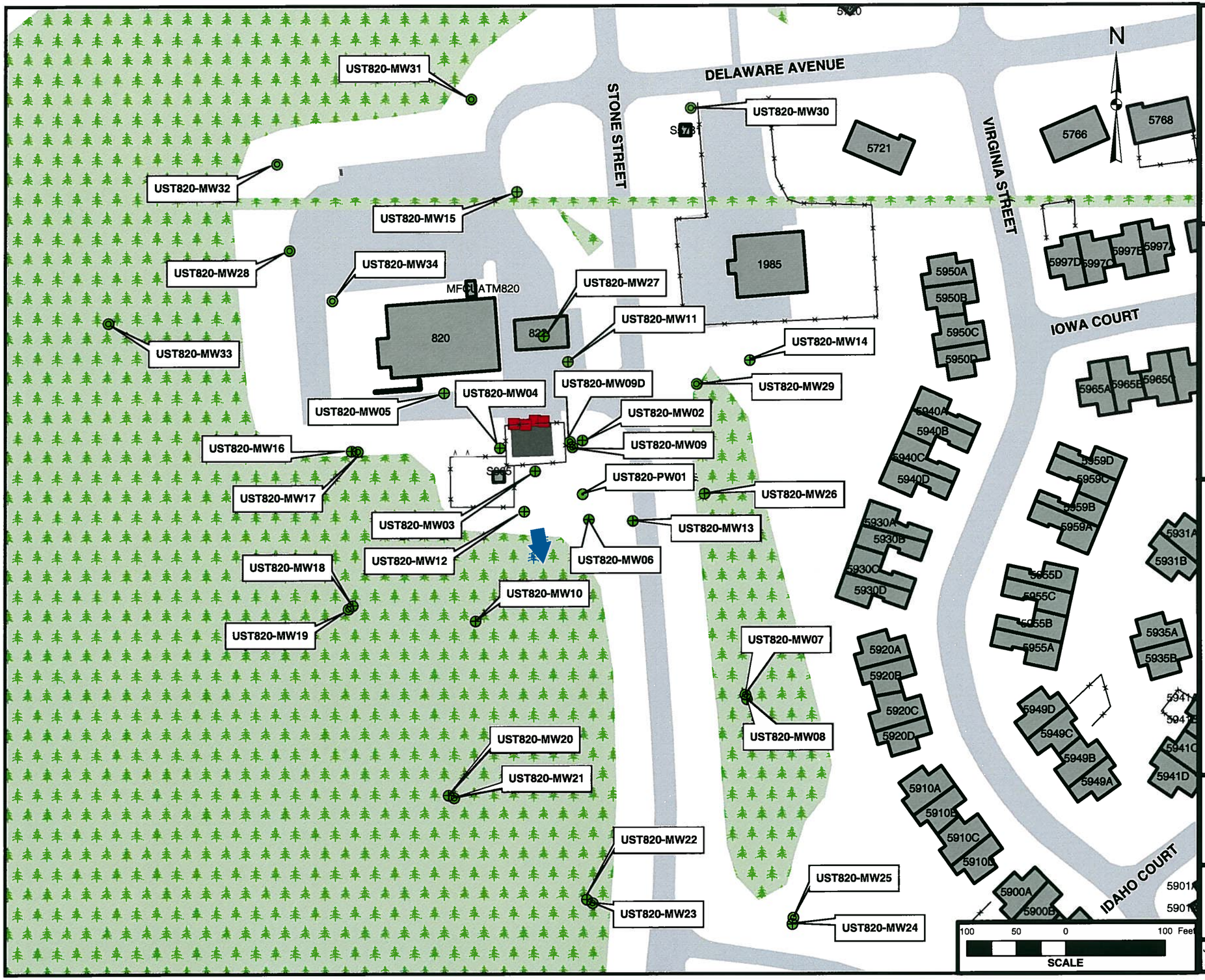
SITE 820
EPA METHOD 625 COLORIMETRY AND PLUME IN EXCESS OF 2L FOURTH QUARTER 2007

FIGURE
14.3B

Job No.:	Date:	Scale:	Drawn By:	Checked By:
207-002	DEC 2007	AS SHOWN	SAC	MEM

MCB CAMP LEJEUNE
UST MANAGEMENT PROGRAM
CALENDAR YEAR 2007

NAVFAC
Naval Facilities Engineering Command



LEGEND

Monitoring Wells
- Type I
- Type II
- Type III
- Pumping Well
- Unknown Well Type
- Water Supply Wells
- Above Ground Storage Tank
- Underground Storage Tank
- Railroad Tracks

Walls and Fences
- FENCE
- GATE
- WALL

Analytical Results
- Free Product Detected
- 2L Non-Compliant
- 2L Compliant
- EPA 6010B Plume
- Buildings and Structures
- Demolished Structures
- Oil/Water Separators
- Slabs
- Roads
- Driveways
- Parking Lots
- Surface Water Bodies
- Creeks and Streams
- Historical Groundwater Flow Direction

Vegetation Cover
- Forestland
- Scrubland
- Wetland

Airfield Pavement
- HELIPAD
- RAMP
- RUNWAY
- SHLDR_OVERRUN
- TAXIWAY

NOTES

1. No EPA Method 6010B compounds were detected above the 2L GWQS for any of the wells sampled during this monitoring event.
2. Please note, monitoring wells UST820-MW09 and UST820-PW01 were sampled during the first quarter 2007 and not the fourth quarter 2006.

CATLIN
Engineers and Scientists

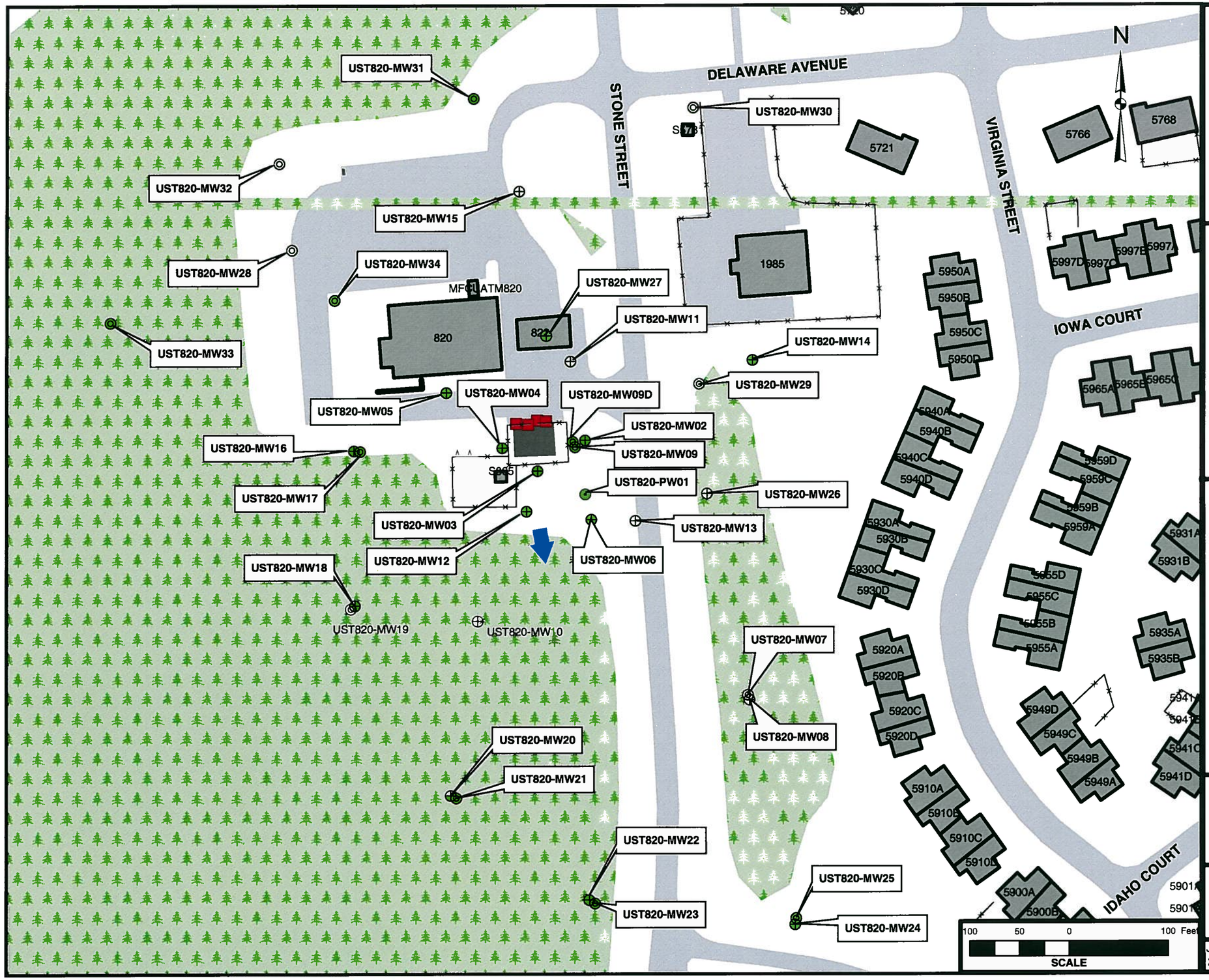
SITE 820
EPA METHOD 6010B COLORIMETRY AND PLUME IN EXCESS OF 2L FOURTH QUARTER 2006

FIGURE
14.4A

Job No.:	Date:	Scale:	Drawn By:	Checked By:
207-002	DEC 2007	AS SHOWN	SAC	MEM

MCB CAMP LEJEUNE
UST MANAGEMENT PROGRAM
CALENDAR YEAR 2007

NAVFAC
Naval Facilities Engineering Command



LEGEND

Monitoring Wells
- Type I
- Type II
- Type III
- Pumping Well
- Unknown Well Type
- Water Supply Wells
- Above Ground Storage Tank
- Underground Storage Tank
- Railroad Tracks

Walls and Fences
- FENCE
- GATE
- WALL

Analytical Results
- Free Product Detected
- 2L Non-Compliant
- 2L Compliant
- EPA 6010B Plume
- Buildings and Structures
- Demolished Structures
- Oil/Water Separators
- Slabs
- Roads
- Driveways
- Parking Lots
- Surface Water Bodies
- Creeks and Streams
- Historical Groundwater Flow Direction

Vegetation Cover
- Forestland
- Scrubland
- Wetland

Airfield Pavement
- HELIPAD
- RAMP
- RUNWAY
- SHLDR_OVERRUN
- TAXIWAY

NOTES

1. No EPA Method 6010B compounds were detected above the 2L GWQS for any of the wells sampled during this monitoring event.

CATLIN
Engineers and Scientists

SITE 820
EPA METHOD 6010B COLORIMETRY AND PLUME IN EXCESS OF 2L FOURTH QUARTER 2007

FIGURE **14.4B**

Job No.:	Date:	Scale:	Drawn By:	Checked By:
207-002	DEC 2007	AS SHOWN	SAC	MEM

SECTION 15.0

OF THE

ANNUAL MANAGEMENT REPORT
MCB CAMP LEJEUNE UST MANAGEMENT PROGRAM

MONITORING EVENT:

YEAR 2007
(JANUARY – DECEMBER 2007)

SITE-SPECIFIC MONITORING REPORT
FOR

SITE 900

NCDENR INCIDENT NO. 32126

15.0 EXECUTIVE SUMMARY
SITE 900

15.1 Site Information

15.1.1 Site Location: MCB Camp Lejeune, Hadnot Point Industrial Area.
15.1.2 Incident Number(s): 32126
15.1.3 UTM Coordinates (WGS84) (Meters): 286707.85 Easting, 3839385.51 Northing
15.1.4 Risk Classification: Low
15.1.5 Land Use Classification: Industrial/Commercial
15.1.6 Source Type(s): A 5000 gallon capacity UST (UST 900) was located at former Building 900. The UST was reportedly installed in 1972 and removed in 1994 and was used to store diesel fuel and possibly gasoline. The exact usage of the UST has not been confirmed.

15.2 Monitoring Event Information

15.2.1 Sampling Performed By: Sovereign
15.2.2 Date(s) of This Monitoring Event: July 2006, October 2006, January 2007 and March 2007.
15.2.3 Date(s) of Previous Monitoring Event: July 2005, October 2005, January 2006, and April 2006.
15.2.4 Reason(s) for This Monitoring Event: Track migration and attenuation of dissolved-phase plume
15.2.5 Site Monitoring Status at Time of This Event: Quarterly groundwater sampling of approximately 13 on-site monitoring wells.

15.3 Groundwater Hydraulics

15.3.1 Hydraulic Conductivity: 31 feet/day
15.3.2 Effective Porosity: 0.30
15.3.3 Hydraulic Gradient: 0.047 feet/feet
15.3.4 Average Linear Groundwater Flow Velocity: 4.82 feet/day
15.3.5 Groundwater Flow Direction: Northwest
15.3.6 Range of Measured Water Table Elevations: See Table 15.1
15.3.7 Significant Changes from Previously Reported Data: None

15.4 Free Product Plume

15.4.1 Free Product Present?: No
15.4.2 Free Product Thickness Measured: Not Applicable
15.4.3 Plume Size and Location: Not Applicable
15.4.4 Free Product Removed from Site This Period: Not Applicable
13.4.5 Significant Changes from Previously Reported Data: None. See Figures 15.1A through 15.1C.

15.5 Dissolved-Phase Plume

15.5.1 Plume Concentrations: See Tables 15.2 through 15.6

15.5.2 Plume Size and Location: See Figures 15.2A through 15.6C

15.5.3 Significant Changes from Previously Reported Data: The current groundwater sample analytical results as compared to the April 2006 analytical results are discussed as follows:

EPA Method 601

During the April 2006 sampling event, no EPA Method 601 compounds were detected above the 2L GWQSs in monitoring well UST900-MW09. During the current sampling events (October 2006 and January 2007), Vinyl Chloride was detected in this monitoring well at concentrations in excess of the 2L GWQS. EPA Method 601 analysis was conducted in only October 2006 and January 2007 during the current sampling events. See Figures 15.2A and 15.2B.

EPA Method 602

There are no significant changes when comparing the April 2006 analytical results to the data collected during the current sampling events. See Figures 15.3A through 15.3C.

EPA Method 625

The analytical data from the April 2006 sampling event revealed Naphthalene at concentrations above the 2L GWQS in the groundwater samples from monitoring wells UST900-MW02, UST900-MW04, and UST900-MW09. During the current sampling events conducted in July 2006 and October 2006, Naphthalene was again detected at concentrations above the 2L GWQS in all three of the above-stated monitoring wells. However, during the current sampling events conducted in January 2007 and March 2007, non-compliant Naphthalene concentrations were only found in samples collected from monitoring well UST900-MW04. See Figures 15.4A through 15.4C.

EPA Method 6010B/6020

During the April 2006 sampling event no EPA Method 6010B compounds were detected above the 2L GWQS. Analytical data collected during the current sampling events revealed Lead at a concentration of 41.7 ug/L in monitoring well UST900-MW05 in July 2006 which was above the 2L GWQS of 15 ug/L for this compound. EPA Method 6010B/6020 analysis was conducted in only July 2006 and October 2006 during the current sampling events. See Figures 15.5A and 15.5B.

MADEP VPH/EPH

Analytical data from the April 2006 sampling event revealed MADEP fractions at concentrations in excess of the 2L GWQSs from only monitoring wells UST900-MW02 and UST900-MW04. Data collected during the current sampling events indicated that MADEP fractions were again detected at concentrations above the 2L GWQSs in these

two monitoring wells. In addition, monitoring well UST900-MW09 contained concentrations of MADEP fractions in excess of the 2L GWQSs during three of the four sampling events (July 2006, January 2007 and March 2007) conducted during the current monitoring period. Also, monitoring well IR78-RW10 contained concentrations of MADEP fractions in excess of the 2L GWQSs during one of the four sampling events (October 2006) conducted during the current monitoring period. See Figures 15.6A through 15.6C

15.6 Potential Receptors

15.6.1 Contaminated Water Supply Well(s)?: None
15.6.2 Potable Water Supply Well Within 1,000 Feet of Source Area?: No
15.6.3 Any Water Supply Well Within 250 Feet of Source Area?: No
15.6.4 Surface Water Body Within 500 Feet?: No
15.6.5 Past Evidence of Vapors?: No
15.6.6 Significant Changes from Previously Reported Data?: None

15.7 Remediation

15.7.1 Status: Remediation system has been shut down to facilitate site closure.
15.7.2 Type: J. A. Jones installed an AS/SVE remediation system in June through July of 1999. The treatment system installed at the site consists of four air sparge and soil vent well pairs. The remediation system was started on July 20, 1999 and operated until it was shut down on June 1, 2004.
15.7.3 Progress: Remediation to the cleanup goals has been achieved (GCLs)
15.7.4 Construction Contractor: J. A. Jones
15.7.5 Operating Contractor: Sovereign

15.8 Observations and Comments

Site 900 is classified as Low Risk and Industrial/Commercial Land Use; the GCLs (groundwater) and Industrial/Commercial MSCCs (soil) are applicable. In July 2007 the NCDENR stated the site can receive NFA with a LUR. CATLIN recommends that once the LUR documentation is finalized the subject site be added to this list. MCB Camp Lejeune should consider re-sampling the groundwater at the subject site in approximately two years to assess current groundwater conditions in an attempt to remove the LUR.

TABLE 15.1
SITE 900
FIELD MEASUREMENTS - JULY 2005 TO DECEMBER 2007

Well No.	Type	TOC	Date	DTW	Product Thickness	Corrected GWT Elevation
IR78-GW22	T-II	31.92	7/25/2005	6.44	0.00	25.48
IR78-GW22	T-II	31.92	10/19/2005	5.99	0.00	25.93
IR78-GW22	T-II	31.92	1/10/2006	6.40	0.00	25.52
IR78-GW22	T-II	31.92	2/28/2006	6.41	0.00	25.51
IR78-GW22	T-II	31.92	3/22/2006	7.23	0.00	24.69
IR78-GW22	T-II	31.92	4/17/2006	7.00	0.00	24.92
IR78-GW22	T-II	31.92	5/1/2006	6.86	0.00	25.06
IR78-GW22	T-II	31.92	6/6/2006	7.20	0.00	24.72
IR78-GW22	T-II	31.92	7/17/2006	7.23	0.00	24.69
IR78-GW22	T-II	31.92	10/16/2006	7.32	0.00	24.60
IR78-GW22	T-II	31.92	1/15/2007	5.29	0.00	26.63
IR78-GW23	T-II	31.23	7/25/2005	3.98	0.00	27.25
IR78-GW23	T-II	31.23	10/19/2005	7.69	0.00	23.54
IR78-GW23	T-II	31.23	1/10/2006	8.30	0.00	22.93
IR78-GW23	T-II	31.23	2/28/2006	8.84	0.00	22.39
IR78-GW23	T-II	31.23	3/22/2006	9.69	0.00	21.54
IR78-GW23	T-II	31.23	4/17/2006	9.46	0.00	21.77
IR78-GW23	T-II	31.23	5/1/2006	9.98	0.00	21.25
IR78-GW23	T-II	31.23	6/6/2006	10.47	0.00	20.76
IR78-GW23	T-II	31.23	7/17/2006	10.11	0.00	21.12
IR78-GW23	T-II	31.23	10/16/2006	9.45	0.00	21.78
IR78-GW23	T-II	31.23	1/15/2007	6.50	0.00	24.73
IR78-RW10	RW	25.85	7/25/2005	7.60	0.00	18.25
IR78-RW10	RW	25.85	10/19/2005	5.60	0.00	20.25
IR78-RW10	RW	25.85	1/10/2006	6.43	0.00	19.42
IR78-RW10	RW	25.85	2/28/2006	5.25	0.00	20.60

Notes:
1. T-II = Type II monitoring well
   T-III = Type III monitoring well
   RW = Recovery well
2. TOC = Top of casing elevation in feet relative to Mean Sea Level.
3. DTW = Depth to water (in feet) from top of well casing.
4. Product thickness is measured in feet.
5. GWT = Groundwater Table
6. A zero ("0.00") in the product thickness column indicates no measureable thickness.
7. GWT Elevation corrected for measurable free product, if present.

Well No.	Type	TOC	Date	DTW	Product Thickness	Corrected GWT Elevation
IR78-RW10	RW	25.85	3/22/2006	6.32	0.00	19.53
IR78-RW10	RW	25.85	4/17/2006	5.48	0.00	20.37
IR78-RW10	RW	25.85	5/1/2006	5.30	0.00	20.55
IR78-RW10	RW	25.85	6/6/2006	7.82	0.00	18.03
IR78-RW10	RW	25.85	7/17/2006	6.92	0.00	18.93
IR78-RW10	RW	25.85	10/16/2006	6.92	0.00	18.93
IR78-RW10	RW	25.85	1/15/2007	7.47	0.00	18.38
UST900-MW01	T-III	29.73	7/25/2005	8.60	0.00	21.13
UST900-MW01	T-III	29.73	10/19/2005	6.90	0.00	22.83
UST900-MW01	T-III	29.73	12/16/2005	7.69	0.00	22.04
UST900-MW01	T-III	29.73	1/10/2006	7.80	0.00	21.93
UST900-MW01	T-III	29.73	2/28/2006	8.10	0.00	21.63
UST900-MW01	T-III	29.73	3/22/2006	9.04	0.00	20.69
UST900-MW01	T-III	29.73	4/17/2006	8.86	0.00	20.87
UST900-MW01	T-III	29.73	5/1/2006	8.93	0.00	20.80
UST900-MW01	T-III	29.73	6/6/2006	9.90	0.00	19.83
UST900-MW01	T-III	29.73	7/17/2006	9.48	0.00	20.25
UST900-MW01	T-III	29.73	10/16/2006	8.60	0.00	21.13
UST900-MW01	T-III	29.73	1/15/2007	6.75	0.00	22.98
UST900-MW02	T-II	29.72	7/25/2005	4.43	0.00	25.29
UST900-MW02	T-II	29.72	10/19/2005	3.95	0.00	25.77
UST900-MW02	T-II	29.72	12/16/2005	4.58	0.00	25.14
UST900-MW02	T-II	29.72	1/10/2006	4.18	0.00	25.54
UST900-MW02	T-II	29.72	2/28/2006	4.17	0.00	25.55
UST900-MW02	T-II	29.72	3/22/2006	4.94	0.00	24.78
UST900-MW02	T-II	29.72	4/17/2006	4.71	0.00	25.01
UST900-MW02	T-II	29.72	5/1/2006	4.69	0.00	25.03
UST900-MW02	T-II	29.72	6/6/2006	5.10	0.00	24.62
UST900-MW02	T-II	29.72	7/17/2006	4.91	0.00	24.81
UST900-MW02	T-II	29.72	10/16/2006	4.95	0.00	24.77
UST900-MW02	T-II	29.72	1/15/2007	3.80	0.00	25.92

Notes:
1. T-II = Type II monitoring well
   T-III = Type III monitoring well
   RW = Recovery well
2. TOC = Top of casing elevation in feet relative to Mean Sea Level.
3. DTW = Depth to water (in feet) from top of well casing.
4. Product thickness is measured in feet.
5. GWT = Groundwater Table
6. A zero ("0.00") in the product thickness column indicates no measureable thickness.
7. GWT Elevation corrected for measurable free product, if present.

Well No.	Type	TOC	Date	DTW	Product Thickness	Corrected GWT Elevation
UST900-MW03	T-III	29.49	7/25/2005	8.82	0.00	20.67
UST900-MW03	T-III	29.49	10/19/2005	6.83	0.00	22.66
UST900-MW03	T-III	29.49	12/16/2005	4.82	0.00	24.67
UST900-MW03	T-III	29.49	1/10/2006	7.70	0.00	21.79
UST900-MW03	T-III	29.49	2/28/2006	7.95	0.00	21.54
UST900-MW03	T-III	29.49	3/22/2006	8.93	0.00	20.56
UST900-MW03	T-III	29.49	4/17/2006	8.80	0.00	20.69
UST900-MW03	T-III	29.49	5/1/2006	8.83	0.00	20.66
UST900-MW03	T-III	29.49	6/6/2006	9.63	0.00	19.86
UST900-MW03	T-III	29.49	7/17/2006	9.40	0.00	20.09
UST900-MW03	T-III	29.49	10/16/2006	8.47	0.00	21.02
UST900-MW03	T-III	29.49	1/15/2007	6.51	0.00	22.98
UST900-MW04	T-II	29.42	7/25/2005	4.66	0.00	24.76
UST900-MW04	T-II	29.42	10/19/2005	4.11	0.00	25.31
UST900-MW04	T-II	29.42	12/16/2005	7.56	0.00	21.86
UST900-MW04	T-II	29.42	1/10/2006	4.40	0.00	25.02
UST900-MW04	T-II	29.42	2/28/2006	4.54	0.00	24.88
UST900-MW04	T-II	29.42	3/22/2006	4.98	0.00	24.44
UST900-MW04	T-II	29.42	4/17/2006	4.92	0.00	24.50
UST900-MW04	T-II	29.42	5/1/2006	4.95	0.00	24.47
UST900-MW04	T-II	29.42	6/6/2006	5.30	0.00	24.12
UST900-MW04	T-II	29.42	7/17/2006	5.08	0.00	24.34
UST900-MW04	T-II	29.42	10/16/2006	4.86	0.00	24.56
UST900-MW04	T-II	29.42	1/15/2007	3.80	0.00	25.62
UST900-MW05	T-II	29.57	7/25/2005	4.60	0.00	24.97
UST900-MW05	T-II	29.57	10/19/2005	4.16	0.00	25.41
UST900-MW05	T-II	29.57	12/16/2005	4.64	0.00	24.93
UST900-MW05	T-II	29.57	1/10/2006	4.42	0.00	25.15
UST900-MW05	T-II	29.57	2/28/2006	4.37	0.00	25.20
UST900-MW05	T-II	29.57	3/22/2006	4.91	0.00	24.66
UST900-MW05	T-II	29.57	4/17/2006	4.68	0.00	24.89

Notes:
1. T-II = Type II monitoring well
   T-III = Type III monitoring well
   RW = Recovery well
2. TOC = Top of casing elevation in feet relative to Mean Sea Level.
3. DTW = Depth to water (in feet) from top of well casing.
4. Product thickness is measured in feet.
5. GWT = Groundwater Table
6. A zero ("0.00") in the product thickness column indicates no measureable thickness.
7. GWT Elevation corrected for measurable free product, if present.

Well No.	Type	TOC	Date	DTW	Product Thickness	Corrected GWT Elevation
UST900-MW05	T-II	29.57	5/1/2006	4.82	0.00	24.75
UST900-MW05	T-II	29.57	6/6/2006	5.10	0.00	24.47
UST900-MW05	T-II	29.57	7/17/2006	4.96	0.00	24.61
UST900-MW05	T-II	29.57	10/16/2006	4.98	0.00	24.59
UST900-MW05	T-II	29.57	1/15/2007	3.97	0.00	25.60
UST900-MW06	T-II	30.28	7/25/2005	5.03	0.00	25.25
UST900-MW06	T-II	30.28	10/19/2005	4.35	0.00	25.93
UST900-MW06	T-II	30.28	12/16/2005	5.01	0.00	25.27
UST900-MW06	T-II	30.28	1/10/2006	4.72	0.00	25.56
UST900-MW06	T-II	30.28	2/28/2006	4.58	0.00	25.70
UST900-MW06	T-II	30.28	3/22/2006	5.49	0.00	24.79
UST900-MW06	T-II	30.28	4/17/2006	5.26	0.00	25.02
UST900-MW06	T-II	30.28	5/1/2006	5.14	0.00	25.14
UST900-MW06	T-II	30.28	6/6/2006	5.58	0.00	24.70
UST900-MW06	T-II	30.28	7/17/2006	5.45	0.00	24.83
UST900-MW06	T-II	30.28	10/16/2006	5.35	0.00	24.93
UST900-MW06	T-II	30.28	1/15/2007	4.40	0.00	25.88
UST900-MW07	T-II	28.93	7/25/2005	3.81	0.00	25.12
UST900-MW07	T-II	28.93	10/19/2005	3.57	0.00	25.36
UST900-MW07	T-II	28.93	1/15/2007	3.60	0.00	25.33
UST900-MW08	T-II	29.33	7/25/2005	6.60	0.00	22.73
UST900-MW08	T-II	29.33	10/19/2005	5.26	0.00	24.07
UST900-MW08	T-II	29.33	12/16/2005	5.12	0.00	24.21
UST900-MW08	T-II	29.33	1/10/2006	6.11	0.00	23.22
UST900-MW08	T-II	29.33	2/28/2006	6.17	0.00	23.16
UST900-MW08	T-II	29.33	3/22/2006	6.98	0.00	22.35
UST900-MW08	T-II	29.33	4/17/2006	6.75	0.00	22.58
UST900-MW08	T-II	29.33	5/1/2006	6.88	0.00	22.45
UST900-MW08	T-II	29.33	6/6/2006	7.35	0.00	21.98
UST900-MW08	T-II	29.33	7/17/2006	7.17	0.00	22.16
UST900-MW08	T-II	29.33	10/16/2006	6.72	0.00	22.61

Notes:
1. T-II = Type II monitoring well
   T-III = Type III monitoring well
   RW = Recovery well
2. TOC = Top of casing elevation in feet relative to Mean Sea Level.
3. DTW = Depth to water (in feet) from top of well casing.
4. Product thickness is measured in feet.
5. GWT = Groundwater Table
6. A zero ("0.00") in the product thickness column indicates no measureable thickness.
7. GWT Elevation corrected for measurable free product, if present.

Well No.	Type	TOC	Date	DTW	Product Thickness	Corrected GWT Elevation
UST900-MW08	T-II	29.33	1/15/2007	5.09	0.00	24.24
UST900-MW09	T-II	29.81	12/16/2005	5.46	0.00	24.35
UST900-MW09	T-II	29.81	1/10/2006	5.73	0.00	24.08
UST900-MW09	T-II	29.81	2/28/2006	5.70	0.00	24.11
UST900-MW09	T-II	29.81	3/22/2006	6.40	0.00	23.41
UST900-MW09	T-II	29.81	4/17/2006	6.18	0.00	23.63
UST900-MW09	T-II	29.81	5/1/2006	6.21	0.00	23.60
UST900-MW09	T-II	29.81	6/6/2006	6.78	0.00	23.03
UST900-MW09	T-II	29.81	7/17/2006	6.20	0.00	23.61
UST900-MW09	T-II	29.81	10/16/2006	6.00	0.00	23.81
UST900-MW09	T-II	29.81	1/15/2007	4.72	0.00	25.09
UST900-MW10	T-II	28.85	12/16/2005	4.85	0.00	24.00
UST900-MW10	T-II	28.85	1/10/2006	4.60	0.00	24.25
UST900-MW10	T-II	28.85	2/28/2006	4.62	0.00	24.23
UST900-MW10	T-II	28.85	3/22/2006	5.06	0.00	23.79
UST900-MW10	T-II	28.85	4/17/2006	4.83	0.00	24.02
UST900-MW10	T-II	28.85	5/1/2006	5.07	0.00	23.78
UST900-MW10	T-II	28.85	6/6/2006	5.29	0.00	23.56
UST900-MW10	T-II	28.85	7/17/2006	5.10	0.00	23.75
UST900-MW10	T-II	28.85	10/16/2006	5.11	0.00	23.74
UST900-MW10	T-II	28.85	1/15/2007	4.01	0.00	24.84

Notes:
1. T-II = Type II monitoring well
   T-III = Type III monitoring well
   RW = Recovery well
2. TOC = Top of casing elevation in feet relative to Mean Sea Level.
3. DTW = Depth to water (in feet) from top of well casing.
4. Product thickness is measured in feet.
5. GWT = Groundwater Table
6. A zero ("0.00") in the product thickness column indicates no measureable thickness.
7. GWT Elevation corrected for measurable free product, if present.

TABLE 15.2

SITE 900

GROUNDWATER LABORATORY ANALYTICAL RESULTS - JULY 2005 TO DECEMBER 2007

EPA METHOD 601

Contaminant of Concern →		1,2-Dichloroethane	1,2-Dichloropropane	Carbon tetrachloride	Chloromethane	cis-1,2-Dichloroethene	Methylene Chloride	trans-1,2-Dichloroethene	Trichloroethene	Vinyl Chloride
Well ID	**Date**									
2L GWQS		0.38	0.51	0.269	2.6	70	4.6	100	2.8	0.015
GCL		380	510	0	2600	70000	4600	100000	2800	15
IR78-GW22	7/26/2005	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
IR78-GW22	10/20/2005	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
IR78-GW22	1/11/2006	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
IR78-GW22	4/17/2006	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
IR78-GW22	10/17/2006	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
IR78-GW22	1/16/2007	BQL	BQL	BQL	1.52	BQL	BQL	BQL	BQL	BQL
IR78-GW22	3/13/2007	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL

Notes:
1. 2L GWQS = North Carolina groundwater quality standard 15A NCAC 2L .0202
2. GCL = Gross Contamination Levels for ground water as defined in "Guidelines for Assessment and Corrective Action" North Carolina Underground Storage Tank Section, effective July 1, 2001
3. All units are in ug/L (Micrograms per Liter)
4. BQL = Below Quantitaion Limits
5. A zero in the 2L GWQS row indicates the 2L Standard is equal to the laboratory detection limit
6. A zero in the GCL row indicates a GCL has not been established
7. Shaded concentrations indicate exceedance of the 2L GWQS
8. Only compounds which were detected are shown on table. All other compounds were BQL

TABLE 15.2

SITE 900

GROUNDWATER LABORATORY ANALYTICAL RESULTS - JULY 2005 TO DECEMBER 2007

EPA METHOD 601

Contaminant of Concern →		1,2-Dichloroethane	1,2-Dichloropropane	Carbon tetrachloride	Chloromethane	cis-1,2-Dichloroethene	Methylene Chloride	trans-1,2-Dichloroethene	Trichloroethene	Vinyl Chloride
Well ID	**Date**									
2L GWQS		0.38	0.51	0.269	2.6	70	4.6	100	2.8	0.015
GCL		380	510	0	2600	70000	4600	100000	2800	15
IR78-GW23	7/26/2005	BQL	BQL	BQL	BQL	**789.00**	BQL	43.60	BQL	**59.30**
IR78-GW23	10/20/2005	BQL	BQL	BQL	BQL	BQL	BQL	64.20	**5.50**	**77.30**
IR78-GW23	1/11/2006	BQL	BQL	BQL	BQL	**674.00**	BQL	BQL	BQL	**57.20**
IR78-GW23	4/17/2006	BQL	BQL	BQL	BQL	**569.00**	BQL	6.52	BQL	**64.00**
IR78-GW23	10/17/2006	BQL	BQL	BQL	BQL	**274.00**	BQL	BQL	BQL	**65.80**
IR78-GW23	1/16/2007	BQL	BQL	BQL	BQL	**319.00**	BQL	BQL	BQL	**39.80**
IR78-GW23	3/13/2007	BQL	BQL	BQL	BQL	**294.00**	BQL	BQL	BQL	**22.00**

Notes:
1. 2L GWQS = North Carolina groundwater quality standard 15A NCAC 2L .0202
2. GCL = Gross Contamination Levels for ground water as defined in "Guidelines for Assessment and Corrective Action" North Carolina Underground Storage Tank Section, effective July 1, 2001
3. All units are in ug/L (Micrograms per Liter)
4. BQL = Below Quantitaion Limits
5. A zero in the 2L GWQS row indicates the 2L Standard is equal to the laboratory detection limit
6. A zero in the GCL row indicates a GCL has not been established
7. Shaded concentrations indicate exceedance of the 2L GWQS
8. Only compounds which were detected are shown on table. All other compounds were BQL

TABLE 15.2

SITE 900

GROUNDWATER LABORATORY ANALYTICAL RESULTS - JULY 2005 TO DECEMBER 2007

EPA METHOD 601

Contaminant of Concern →		1,2-Dichloroethane	1,2-Dichloropropane	Carbon tetrachloride	Chloromethane	cis-1,2-Dichloroethene	Methylene Chloride	trans-1,2-Dichloroethene	Trichloroethene	Vinyl Chloride
Well ID	**Date**									
2L GWQS		0.38	0.51	0.269	2.6	70	4.6	100	2.8	0.015
GCL		380	510	0	2600	70000	4600	100000	2800	15
IR78-RW10	7/26/2005	BQL	BQL	BQL	BQL	**116.00**	BQL	BQL	**105.00**	BQL
IR78-RW10	10/20/2005	**2.50**	BQL	BQL	BQL	37.30	BQL	BQL	**24.50**	BQL
IR78-RW10	1/11/2006	BQL	BQL	BQL	BQL	60.50	BQL	BQL	**56.90**	BQL
IR78-RW10	4/17/2006	BQL	BQL	BQL	BQL	39.80	**6.98**	BQL	**25.10**	BQL
IR78-RW10	10/17/2006	BQL	BQL	BQL	BQL	42.40	BQL	BQL	**35.70**	BQL
IR78-RW10	1/16/2007	BQL	BQL	BQL	BQL	33.90	BQL	BQL	**32.90**	**0.75**
IR78-RW10	3/13/2007	BQL	BQL	BQL	BQL	36.00	BQL	BQL	**34.70**	BQL

Notes:
1. 2L GWQS = North Carolina groundwater quality standard 15A NCAC 2L .0202
2. GCL = Gross Contamination Levels for ground water as defined in "Guidelines for Assessment and Corrective Action" North Carolina Underground Storage Tank Section, effective July 1, 2001
3. All units are in ug/L (Micrograms per Liter)
4. BQL = Below Quantitaion Limits
5. A zero in the 2L GWQS row indicates the 2L Standard is equal to the laboratory detection limit
6. A zero in the GCL row indicates a GCL has not been established
7. Shaded concentrations indicate exceedance of the 2L GWQS
8. Only compounds which were detected are shown on table. All other compounds were BQL

TABLE 15.2

SITE 900

GROUNDWATER LABORATORY ANALYTICAL RESULTS - JULY 2005 TO DECEMBER 2007

EPA METHOD 601

Contaminant of Concern →		1,2-Dichloroethane	1,2-Dichloropropane	Carbon tetrachloride	Chloromethane	cis-1,2-Dichloroethene	Methylene Chloride	trans-1,2-Dichloroethene	Trichloroethene	Vinyl Chloride
Well ID	**Date**									
2L GWQS		0.38	0.51	0.269	2.6	70	4.6	100	2.8	0.015
GCL		380	510	0	2600	70000	4600	100000	2800	15
UST900-MW01	7/26/2005	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
UST900-MW01	10/19/2005	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
UST900-MW01	1/11/2006	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
UST900-MW01	4/17/2006	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
UST900-MW01	10/16/2006	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
UST900-MW01	1/15/2007	BQL	BQL	BQL	0.91	BQL	BQL	BQL	BQL	BQL
UST900-MW01	3/13/2007	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL

Notes:
1. 2L GWQS = North Carolina groundwater quality standard 15A NCAC 2L .0202
2. GCL = Gross Contamination Levels for ground water as defined in "Guidelines for Assessment and Corrective Action" North Carolina Underground Storage Tank Section, effective July 1, 2001
3. All units are in ug/L (Micrograms per Liter)
4. BQL = Below Quantitaion Limits
5. A zero in the 2L GWQS row indicates the 2L Standard is equal to the laboratory detection limit
6. A zero in the GCL row indicates a GCL has not been established
7. Shaded concentrations indicate exceedance of the 2L GWQS
8. Only compounds which were detected are shown on table. All other compounds were BQL

TABLE 15.2

SITE 900

GROUNDWATER LABORATORY ANALYTICAL RESULTS - JULY 2005 TO DECEMBER 2007

EPA METHOD 601

Contaminant of Concern →		1,2-Dichloroethane	1,2-Dichloropropane	Carbon tetrachloride	Chloromethane	cis-1,2-Dichloroethene	Methylene Chloride	trans-1,2-Dichloroethene	Trichloroethene	Vinyl Chloride
Well ID	**Date**									
2L GWQS		0.38	0.51	0.269	2.6	70	4.6	100	2.8	0.015
GCL		380	510	0	2600	70000	4600	100000	2800	15
UST900-MW02	7/25/2005	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
UST900-MW02	10/19/2005	2.60	1.00	BQL	BQL	BQL	BQL	BQL	BQL	BQL
UST900-MW02	1/11/2006	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
UST900-MW02	4/17/2006	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
UST900-MW02	10/16/2006	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
UST900-MW02	1/15/2007	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
UST900-MW02	3/13/2007	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL

Notes:
1. 2L GWQS = North Carolina groundwater quality standard 15A NCAC 2L .0202
2. GCL = Gross Contamination Levels for ground water as defined in "Guidelines for Assessment and Corrective Action" North Carolina Underground Storage Tank Section, effective July 1, 2001
3. All units are in ug/L (Micrograms per Liter)
4. BQL = Below Quantitaion Limits
5. A zero in the 2L GWQS row indicates the 2L Standard is equal to the laboratory detection limit
6. A zero in the GCL row indicates a GCL has not been established
7. Shaded concentrations indicate exceedance of the 2L GWQS
8. Only compounds which were detected are shown on table. All other compounds were BQL

TABLE 15.2

SITE 900

GROUNDWATER LABORATORY ANALYTICAL RESULTS - JULY 2005 TO DECEMBER 2007

EPA METHOD 601

Contaminant of Concern →		1,2-Dichloroethane	1,2-Dichloropropane	Carbon tetrachloride	Chloromethane	cis-1,2-Dichloroethene	Methylene Chloride	trans-1,2-Dichloroethene	Trichloroethene	Vinyl Chloride
Well ID	Date									
2L GWQS		0.38	0.51	0.269	2.6	70	4.6	100	2.8	0.015
GCL		380	510	0	2600	70000	4600	100000	2800	15
UST900-MW03	7/25/2005	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
UST900-MW03	10/19/2005	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
UST900-MW03	1/11/2006	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
UST900-MW03	4/17/2006	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
UST900-MW03	10/16/2006	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
UST900-MW03	1/15/2007	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
UST900-MW03	3/13/2007	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL

Notes:
1. 2L GWQS = North Carolina groundwater quality standard 15A NCAC 2L .0202
2. GCL = Gross Contamination Levels for ground water as defined in "Guidelines for Assessment and Corrective Action" North Carolina Underground Storage Tank Section, effective July 1, 2001
3. All units are in ug/L (Micrograms per Liter)
4. BQL = Below Quantitaion Limits
5. A zero in the 2L GWQS row indicates the 2L Standard is equal to the laboratory detection limit
6. A zero in the GCL row indicates a GCL has not been established
7. Shaded concentrations indicate exceedance of the 2L GWQS
8. Only compounds which were detected are shown on table. All other compounds were BQL

TABLE 15.2

SITE 900

GROUNDWATER LABORATORY ANALYTICAL RESULTS - JULY 2005 TO DECEMBER 2007

EPA METHOD 601

Contaminant of Concern →		1,2-Dichloroethane	1,2-Dichloropropane	Carbon tetrachloride	Chloromethane	cis-1,2-Dichloroethene	Methylene Chloride	trans-1,2-Dichloroethene	Trichloroethene	Vinyl Chloride
Well ID	**Date**									
	2L GWQS	0.38	0.51	0.269	2.6	70	4.6	100	2.8	0.015
	GCL	380	510	0	2600	70000	4600	100000	2800	15
UST900-MW04	7/25/2005	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
UST900-MW04	10/19/2005	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
UST900-MW04	1/11/2006	3.88	0.81	BQL	BQL	BQL	BQL	BQL	BQL	BQL
UST900-MW04	4/17/2006	4.21	0.90	BQL	BQL	BQL	BQL	BQL	BQL	BQL
UST900-MW04	10/16/2006	3.65	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
UST900-MW04	1/15/2007	2.06	0.24	BQL	BQL	BQL	BQL	BQL	BQL	BQL
UST900-MW04	3/13/2007	1.39	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL

Notes:
1. 2L GWQS = North Carolina groundwater quality standard 15A NCAC 2L .0202
2. GCL = Gross Contamination Levels for ground water as defined in "Guidelines for Assessment and Corrective Action" North Carolina Underground Storage Tank Section, effective July 1, 2001
3. All units are in ug/L (Micrograms per Liter)
4. BQL = Below Quantitaion Limits
5. A zero in the 2L GWQS row indicates the 2L Standard is equal to the laboratory detection limit
6. A zero in the GCL row indicates a GCL has not been established
7. Shaded concentrations indicate exceedance of the 2L GWQS
8. Only compounds which were detected are shown on table. All other compounds were BQL

TABLE 15.2

SITE 900

GROUNDWATER LABORATORY ANALYTICAL RESULTS - JULY 2005 TO DECEMBER 2007

EPA METHOD 601

Contaminant of Concern →		1,2-Dichloroethane	1,2-Dichloropropane	Carbon tetrachloride	Chloromethane	cis-1,2-Dichloroethene	Methylene Chloride	trans-1,2-Dichloroethene	Trichloroethene	Vinyl Chloride
Well ID	**Date**									
2L GWQS		0.38	0.51	0.269	2.6	70	4.6	100	2.8	0.015
GCL		380	510	0	2600	70000	4600	100000	2800	15
UST900-MW05	7/25/2005	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
UST900-MW05	10/19/2005	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
UST900-MW05	1/10/2006	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
UST900-MW05	4/17/2006	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
UST900-MW05	10/16/2006	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
UST900-MW05	1/15/2007	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
UST900-MW05	3/13/2007	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL

Notes:
1. 2L GWQS = North Carolina groundwater quality standard 15A NCAC 2L .0202
2. GCL = Gross Contamination Levels for ground water as defined in "Guidelines for Assessment and Corrective Action" North Carolina Underground Storage Tank Section, effective July 1, 2001
3. All units are in ug/L (Micrograms per Liter)
4. BQL = Below Quantitaion Limits
5. A zero in the 2L GWQS row indicates the 2L Standard is equal to the laboratory detection limit
6. A zero in the GCL row indicates a GCL has not been established
7. Shaded concentrations indicate exceedance of the 2L GWQS
8. Only compounds which were detected are shown on table. All other compounds were BQL

TABLE 15.2

SITE 900

GROUNDWATER LABORATORY ANALYTICAL RESULTS - JULY 2005 TO DECEMBER 2007

EPA METHOD 601

Contaminant of Concern →		1,2-Dichloroethane	1,2-Dichloropropane	Carbon tetrachloride	Chloromethane	cis-1,2-Dichloroethene	Methylene Chloride	trans-1,2-Dichloroethene	Trichloroethene	Vinyl Chloride
Well ID	**Date**									
2L GWQS		0.38	0.51	0.269	2.6	70	4.6	100	2.8	0.015
GCL		380	510	0	2600	70000	4600	100000	2800	15
UST900-MW06	7/26/2005	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
UST900-MW06	10/20/2005	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
UST900-MW06	1/11/2006	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
UST900-MW06	4/17/2006	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
UST900-MW06	10/17/2006	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
UST900-MW06	1/16/2007	BQL	BQL	BQL	1.03	BQL	BQL	BQL	BQL	BQL
UST900-MW06	3/13/2007	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
UST900-MW07	3/13/2007	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL

Notes:
1. 2L GWQS = North Carolina groundwater quality standard 15A NCAC 2L .0202
2. GCL = Gross Contamination Levels for ground water as defined in "Guidelines for Assessment and Corrective Action" North Carolina Underground Storage Tank Section, effective July 1, 2001
3. All units are in ug/L (Micrograms per Liter)
4. BQL = Below Quantitaion Limits
5. A zero in the 2L GWQS row indicates the 2L Standard is equal to the laboratory detection limit
6. A zero in the GCL row indicates a GCL has not been established
7. Shaded concentrations indicate exceedance of the 2L GWQS
8. Only compounds which were detected are shown on table. All other compounds were BQL

TABLE 15.2

SITE 900

GROUNDWATER LABORATORY ANALYTICAL RESULTS - JULY 2005 TO DECEMBER 2007

EPA METHOD 601

Contaminant of Concern →		1,2-Dichloroethane	1,2-Dichloropropane	Carbon tetrachloride	Chloromethane	cis-1,2-Dichloroethene	Methylene Chloride	trans-1,2-Dichloroethene	Trichloroethene	Vinyl Chloride
Well ID	**Date**									
2L GWQS		0.38	0.51	0.269	2.6	70	4.6	100	2.8	0.015
GCL		380	510	0	2600	70000	4600	100000	2800	15
UST900-MW08	7/25/2005	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
UST900-MW08	10/19/2005	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
UST900-MW08	1/10/2006	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
UST900-MW08	4/17/2006	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
UST900-MW08	10/17/2006	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
UST900-MW08	1/15/2007	BQL	BQL	BQL	0.85	BQL	BQL	BQL	BQL	BQL
UST900-MW08	3/13/2007	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL

Notes:
1. 2L GWQS = North Carolina groundwater quality standard 15A NCAC 2L .0202
2. GCL = Gross Contamination Levels for ground water as defined in "Guidelines for Assessment and Corrective Action" North Carolina Underground Storage Tank Section, effective July 1, 2001
3. All units are in ug/L (Micrograms per Liter)
4. BQL = Below Quantitaion Limits
5. A zero in the 2L GWQS row indicates the 2L Standard is equal to the laboratory detection limit
6. A zero in the GCL row indicates a GCL has not been established
7. Shaded concentrations indicate exceedance of the 2L GWQS
8. Only compounds which were detected are shown on table. All other compounds were BQL

TABLE 15.2

SITE 900

GROUNDWATER LABORATORY ANALYTICAL RESULTS - JULY 2005 TO DECEMBER 2007

EPA METHOD 601

Contaminant of Concern →		1,2-Dichloroethane	1,2-Dichloropropane	Carbon tetrachloride	Chloromethane	cis-1,2-Dichloroethene	Methylene Chloride	trans-1,2-Dichloroethene	Trichloroethene	Vinyl Chloride
Well ID	**Date**									
2L GWQS		0.38	0.51	0.269	2.6	70	4.6	100	2.8	0.015
GCL		380	510	0	2600	70000	4600	100000	2800	15
UST900-MW09	7/25/2005	**1.40**	BQL	**16.20**	BQL	0.78	BQL	BQL	BQL	BQL
UST900-MW09	10/19/2005	**1.70**	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
UST900-MW09	1/10/2006	**0.68**	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
UST900-MW09	4/17/2006	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
UST900-MW09	10/17/2006	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	**1.06**
UST900-MW09	1/15/2007	0.16	BQL	BQL	1.11	BQL	BQL	BQL	BQL	**0.22**
UST900-MW09	3/13/2007	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL

Notes:
1. 2L GWQS = North Carolina groundwater quality standard 15A NCAC 2L .0202
2. GCL = Gross Contamination Levels for ground water as defined in "Guidelines for Assessment and Corrective Action" North Carolina Underground Storage Tank Section, effective July 1, 2001
3. All units are in ug/L (Micrograms per Liter)
4. BQL = Below Quantitaion Limits
5. A zero in the 2L GWQS row indicates the 2L Standard is equal to the laboratory detection limit
6. A zero in the GCL row indicates a GCL has not been established
7. Shaded concentrations indicate exceedance of the 2L GWQS
8. Only compounds which were detected are shown on table. All other compounds were BQL

TABLE 15.2

SITE 900

GROUNDWATER LABORATORY ANALYTICAL RESULTS - JULY 2005 TO DECEMBER 2007

EPA METHOD 601

Contaminant of Concern →		1,2-Dichloroethane	1,2-Dichloropropane	Carbon tetrachloride	Chloromethane	cis-1,2-Dichloroethene	Methylene Chloride	trans-1,2-Dichloroethene	Trichloroethene	Vinyl Chloride
Well ID	**Date**									
2L GWQS		0.38	0.51	0.269	2.6	70	4.6	100	2.8	0.015
GCL		380	510	0	2600	70000	4600	100000	2800	15
UST900-MW10	7/25/2005	BQL	BQL	BQL	BQL	2.10	BQL	BQL	BQL	BQL
UST900-MW10	10/19/2005	BQL	BQL	BQL	BQL	2.00	BQL	BQL	0.51	BQL
UST900-MW10	1/10/2006	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
UST900-MW10	4/17/2006	BQL	BQL	BQL	BQL	0.95	BQL	BQL	BQL	BQL
UST900-MW10	10/16/2006	BQL	BQL	BQL	BQL	2.08	BQL	BQL	BQL	BQL
UST900-MW10	1/15/2007	BQL	BQL	BQL	0.91	1.55	BQL	BQL	BQL	BQL
UST900-MW10	3/13/2007	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL

Notes:
1. 2L GWQS = North Carolina groundwater quality standard 15A NCAC 2L .0202
2. GCL = Gross Contamination Levels for ground water as defined in "Guidelines for Assessment and Corrective Action" North Carolina Underground Storage Tank Section, effective July 1, 2001
3. All units are in ug/L (Micrograms per Liter)
4. BQL = Below Quantitaion Limits
5. A zero in the 2L GWQS row indicates the 2L Standard is equal to the laboratory detection limit
6. A zero in the GCL row indicates a GCL has not been established
7. Shaded concentrations indicate exceedance of the 2L GWQS
8. Only compounds which were detected are shown on table. All other compounds were BQL

TABLE 15.3

SITE 900

GROUNDWATER LABORATORY ANALYTICAL RESULTS - JULY 2005 TO DECEMBER 2007

EPA METHOD 602

Contaminant of Concern →		Benzene	Diisopropyl ether (DIPE)	Ethylbenzene	Methyl Tert Butyl Ether	Methyl-tert butyl ether	Toluene	Total Xylenes	Xylenes (total)
Well ID	**Date**								
2L GWQS		1	70	550	200	200	1000	530	530
GCL		5000	70000	550000	200000	200000	257500	87500	87500
IR78-GW22	7/26/2005	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
IR78-GW22	10/20/2005	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
IR78-GW22	1/11/2006	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
IR78-GW22	4/17/2006	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
IR78-GW22	7/18/2006	BQL	BQL	0.45	BQL	BQL	1.87	3.59	BQL
IR78-GW22	10/17/2006	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
IR78-GW22	1/16/2007	BQL	BQL	BQL	BQL	BQL	0.87	BQL	BQL
IR78-GW22	3/13/2007	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL

Notes:
1. 2L GWQS = North Carolina groundwater quality standard 15A NCAC 2L .0202
2. GCL = Gross Contamination Levels for ground water as defined in "Guidelines for Assessment and Corrective Action" North Carolina Underground Storage Tank Section, effective July 1, 2001
3. All units are in ug/L (Micrograms per Liter)
4. BQL = Below Quantitaion Limits
5. A zero in the 2L GWQS row indicates the 2L Standard is equal to the laboratory detection limit
6. A zero in the GCL row indicates a GCL has not been established
7. Shaded concentrations indicate exceedance of the 2L GWQS
8. Only compounds which were detected are shown on table. All other compounds were BQL
9. Please note, compounds reported in duplicate columns are the result of multiple laboratories submitting EDD data with different nomenclature. Unless BQL appears in both duplicate columns, a detection is present and that concentration is reported numerically.

TABLE 15.3

SITE 900

GROUNDWATER LABORATORY ANALYTICAL RESULTS - JULY 2005 TO DECEMBER 2007

EPA METHOD 602

Contaminant of Concern →		Benzene	Diisopropyl ether (DIPE)	Ethylbenzene	Methyl Tert Butyl Ether	Methyl-tert butyl ether	Toluene	Total Xylenes	Xylenes (total)
Well ID	**Date**								
	2L GWQS	1	70	550	200	200	1000	530	530
	GCL	5000	70000	550000	200000	200000	257500	87500	87500
IR78-GW23	7/26/2005	BQL	BQL	BQL	BQL	BQL	BQL	BQL	24.70
IR78-GW23	10/20/2005	**4.90**	BQL	1.20	BQL	BQL	2.30	BQL	24.90
IR78-GW23	1/11/2006	**4.56**	BQL	1.33	BQL	BQL	1.95	BQL	20.92
IR78-GW23	4/17/2006	**6.02**	BQL	1.14	BQL	BQL	2.49	BQL	24.75
IR78-GW23	7/18/2006	**4.79**	BQL	1.68	BQL	52.90	3.85	25.85	BQL
IR78-GW23	10/17/2006	**2.82**	BQL	1.32	BQL	32.90	3.01	16.46	BQL
IR78-GW23	1/16/2007	**3.34**	BQL	2.04	BQL	BQL	3.21	15.25	BQL
IR78-GW23	3/13/2007	**3.10**	BQL	1.01	BQL	BQL	1.95	11.87	BQL

Notes:
1. 2L GWQS = North Carolina groundwater quality standard 15A NCAC 2L .0202
2. GCL = Gross Contamination Levels for ground water as defined in "Guidelines for Assessment and Corrective Action" North Carolina Underground Storage Tank Section, effective July 1, 2001
3. All units are in ug/L (Micrograms per Liter)
4. BQL = Below Quantitaion Limits
5. A zero in the 2L GWQS row indicates the 2L Standard is equal to the laboratory detection limit
6. A zero in the GCL row indicates a GCL has not been established
7. Shaded concentrations indicate exceedance of the 2L GWQS
8. Only compounds which were detected are shown on table. All other compounds were BQL
9. Please note, compounds reported in duplicate columns are the result of multiple laboratories submitting EDD data with different nomenclature. Unless BQL appears in both duplicate columns, a detection is present and that concentration is reported numerically.

TABLE 15.3

SITE 900

GROUNDWATER LABORATORY ANALYTICAL RESULTS - JULY 2005 TO DECEMBER 2007

EPA METHOD 602

Contaminant of Concern →		Benzene	Diisopropyl ether (DIPE)	Ethylbenzene	Methyl Tert Butyl Ether	Methyl-tert butyl ether	Toluene	Total Xylenes	Xylenes (total)
Well ID	**Date**								
2L GWQS		1	70	550	200	200	1000	530	530
GCL		5000	70000	550000	200000	200000	257500	87500	87500
IR78-RW10	7/26/2005	**168.00**	BQL	18.10	BQL	BQL	2.60	BQL	12.60
IR78-RW10	10/20/2005	**114.00**	BQL	13.80	BQL	BQL	BQL	BQL	8.70
IR78-RW10	1/11/2006	**138.00**	2.53	13.30	BQL	BQL	BQL	BQL	5.33
IR78-RW10	4/17/2006	**122.00**	3.71	8.84	BQL	BQL	BQL	BQL	BQL
IR78-RW10	7/18/2006	**10.60**	0.72	0.89	BQL	BQL	1.39	2.73	BQL
IR78-RW10	10/17/2006	**148.00**	BQL	14.00	BQL	BQL	BQL	BQL	BQL
IR78-RW10	1/16/2007	**80.10**	1.70	5.80	BQL	BQL	BQL	2.23	BQL
IR78-RW10	3/13/2007	**108.00**	2.71	9.04	BQL	BQL	BQL	BQL	BQL

Notes:
1. 2L GWQS = North Carolina groundwater quality standard 15A NCAC 2L .0202
2. GCL = Gross Contamination Levels for ground water as defined in "Guidelines for Assessment and Corrective Action" North Carolina Underground Storage Tank Section, effective July 1, 2001
3. All units are in ug/L (Micrograms per Liter)
4. BQL = Below Quantitaion Limits
5. A zero in the 2L GWQS row indicates the 2L Standard is equal to the laboratory detection limit
6. A zero in the GCL row indicates a GCL has not been established
7. Shaded concentrations indicate exceedance of the 2L GWQS
8. Only compounds which were detected are shown on table. All other compounds were BQL
9. Please note, compounds reported in duplicate columns are the result of multiple laboratories submitting EDD data with different nomenclature. Unless BQL appears in both duplicate columns, a detection is present and that concentration is reported numerically.

TABLE 15.3

SITE 900

GROUNDWATER LABORATORY ANALYTICAL RESULTS - JULY 2005 TO DECEMBER 2007

EPA METHOD 602

Contaminant of Concern →		Benzene	Diisopropyl ether (DIPE)	Ethylbenzene	Methyl Tert Butyl Ether	Methyl-tert butyl ether	Toluene	Total Xylenes	Xylenes (total)
Well ID	**Date**								
2L GWQS		1	70	550	200	200	1000	530	530
GCL		5000	70000	550000	200000	200000	257500	87500	87500
UST900-MW01	7/26/2005	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
UST900-MW01	10/19/2005	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
UST900-MW01	1/11/2006	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
UST900-MW01	4/17/2006	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
UST900-MW01	7/19/2006	BQL	BQL	BQL	BQL	BQL	1.40	1.82	BQL
UST900-MW01	10/16/2006	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
UST900-MW01	1/15/2007	BQL	BQL	0.20	BQL	BQL	1.26	BQL	BQL
UST900-MW01	3/13/2007	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL

Notes:
1. 2L GWQS = North Carolina groundwater quality standard 15A NCAC 2L .0202
2. GCL = Gross Contamination Levels for ground water as defined in "Guidelines for Assessment and Corrective Action" North Carolina Underground Storage Tank Section, effective July 1, 2001
3. All units are in ug/L (Micrograms per Liter)
4. BQL = Below Quantitaion Limits
5. A zero in the 2L GWQS row indicates the 2L Standard is equal to the laboratory detection limit
6. A zero in the GCL row indicates a GCL has not been established
7. Shaded concentrations indicate exceedance of the 2L GWQS
8. Only compounds which were detected are shown on table. All other compounds were BQL
9. Please note, compounds reported in duplicate columns are the result of multiple laboratories submitting EDD data with different nomenclature. Unless BQL appears in both duplicate columns, a detection is present and that concentration is reported numerically.

TABLE 15.3

SITE 900

GROUNDWATER LABORATORY ANALYTICAL RESULTS - JULY 2005 TO DECEMBER 2007

EPA METHOD 602

Contaminant of Concern →		Benzene	Diisopropyl ether (DIPE)	Ethylbenzene	Methyl Tert Butyl Ether	Methyl-tert butyl ether	Toluene	Total Xylenes	Xylenes (total)
Well ID	**Date**								
2L GWQS		1	70	550	200	200	1000	530	530
GCL		5000	70000	550000	200000	200000	257500	87500	87500
UST900-MW02	7/25/2005	**4.10**	BQL	8.60	14.10	BQL	8.50	BQL	13.90
UST900-MW02	10/19/2005	**129.00**	BQL	59.20	BQL	BQL	27.00	BQL	53.10
UST900-MW02	1/11/2006	**14.00**	BQL	21.20	BQL	BQL	11.60	BQL	21.79
UST900-MW02	4/17/2006	**26.00**	BQL	16.60	BQL	BQL	18.00	BQL	32.90
UST900-MW02	7/19/2006	**12.80**	10.20	9.08	BQL	16.70	12.70	20.75	BQL
UST900-MW02	10/16/2006	**1.93**	BQL	11.50	BQL	BQL	8.04	15.58	BQL
UST900-MW02	1/15/2007	BQL	BQL	2.57	BQL	BQL	5.02	11.07	BQL
UST900-MW02	3/13/2007	**3.22**	0.55	0.80	BQL	BQL	2.62	5.12	BQL

Notes:
1. 2L GWQS = North Carolina groundwater quality standard 15A NCAC 2L .0202
2. GCL = Gross Contamination Levels for ground water as defined in "Guidelines for Assessment and Corrective Action" North Carolina Underground Storage Tank Section, effective July 1, 2001
3. All units are in ug/L (Micrograms per Liter)
4. BQL = Below Quantitaion Limits
5. A zero in the 2L GWQS row indicates the 2L Standard is equal to the laboratory detection limit
6. A zero in the GCL row indicates a GCL has not been established
7. Shaded concentrations indicate exceedance of the 2L GWQS
8. Only compounds which were detected are shown on table. All other compounds were BQL
9. Please note, compounds reported in duplicate columns are the result of multiple laboratories submitting EDD data with different nomenclature. Unless BQL appears in both duplicate columns, a detection is present and that concentration is reported numerically.

TABLE 15.3

SITE 900

GROUNDWATER LABORATORY ANALYTICAL RESULTS - JULY 2005 TO DECEMBER 2007

EPA METHOD 602

Contaminant of Concern →		Benzene	Diisopropyl ether (DIPE)	Ethylbenzene	Methyl Tert Butyl Ether	Methyl-tert butyl ether	Toluene	Total Xylenes	Xylenes (total)
Well ID	Date								
2L GWQS		1	70	550	200	200	1000	530	530
GCL		5000	70000	550000	200000	200000	257500	87500	87500
UST900-MW03	7/25/2005	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
UST900-MW03	10/19/2005	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
UST900-MW03	1/11/2006	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
UST900-MW03	4/17/2006	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
UST900-MW03	7/18/2006	BQL	BQL	0.33	BQL	BQL	1.33	1.25	BQL
UST900-MW03	10/16/2006	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
UST900-MW03	1/15/2007	BQL	BQL	0.28	BQL	BQL	1.45	BQL	BQL
UST900-MW03	3/13/2007	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL

Notes:
1. 2L GWQS = North Carolina groundwater quality standard 15A NCAC 2L .0202
2. GCL = Gross Contamination Levels for ground water as defined in "Guidelines for Assessment and Corrective Action" North Carolina Underground Storage Tank Section, effective July 1, 2001
3. All units are in ug/L (Micrograms per Liter)
4. BQL = Below Quantitaion Limits
5. A zero in the 2L GWQS row indicates the 2L Standard is equal to the laboratory detection limit
6. A zero in the GCL row indicates a GCL has not been established
7. Shaded concentrations indicate exceedance of the 2L GWQS
8. Only compounds which were detected are shown on table. All other compounds were BQL
9. Please note, compounds reported in duplicate columns are the result of multiple laboratories submitting EDD data with different nomenclature. Unless BQL appears in both duplicate columns, a detection is present and that concentration is reported numerically.

TABLE 15.3

SITE 900

GROUNDWATER LABORATORY ANALYTICAL RESULTS - JULY 2005 TO DECEMBER 2007

EPA METHOD 602

Contaminant of Concern →		Benzene	Diisopropyl ether (DIPE)	Ethylbenzene	Methyl Tert Butyl Ether	Methyl-tert butyl ether	Toluene	Total Xylenes	Xylenes (total)
Well ID	**Date**								
2L GWQS		1	70	550	200	200	1000	530	530
GCL		5000	70000	550000	200000	200000	257500	87500	87500
UST900-MW04	7/25/2005	**1120.00**	BQL	**831.00**	BQL	BQL	55.20	BQL	**853.00**
UST900-MW04	10/19/2005	**1040.00**	BQL	**742.00**	BQL	BQL	50.60	BQL	**650.00**
UST900-MW04	1/11/2006	**717.00**	36.60	**609.00**	BQL	BQL	29.30	BQL	329.60
UST900-MW04	4/17/2006	**784.00**	47.40	**614.00**	BQL	BQL	47.50	BQL	439.50
UST900-MW04	7/18/2006	**628.00**	45.70	499.00	BQL	BQL	37.80	273.20	BQL
UST900-MW04	10/16/2006	**631.00**	35.80	381.00	BQL	BQL	BQL	85.90	BQL
UST900-MW04	1/15/2007	**288.00**	12.80	154.00	BQL	BQL	BQL	5.52	BQL
UST900-MW04	3/13/2007	**269.00**	9.39	133.00	BQL	BQL	BQL	BQL	BQL

Notes:
1. 2L GWQS = North Carolina groundwater quality standard 15A NCAC 2L .0202
2. GCL = Gross Contamination Levels for ground water as defined in "Guidelines for Assessment and Corrective Action" North Carolina Underground Storage Tank Section, effective July 1, 2001
3. All units are in ug/L (Micrograms per Liter)
4. BQL = Below Quantitaion Limits
5. A zero in the 2L GWQS row indicates the 2L Standard is equal to the laboratory detection limit
6. A zero in the GCL row indicates a GCL has not been established
7. Shaded concentrations indicate exceedance of the 2L GWQS
8. Only compounds which were detected are shown on table. All other compounds were BQL
9. Please note, compounds reported in duplicate columns are the result of multiple laboratories submitting EDD data with different nomenclature. Unless BQL appears in both duplicate columns, a detection is present and that concentration is reported numerically.

TABLE 15.3

SITE 900

GROUNDWATER LABORATORY ANALYTICAL RESULTS - JULY 2005 TO DECEMBER 2007

EPA METHOD 602

Contaminant of Concern →		Benzene	Diisopropyl ether (DIPE)	Ethylbenzene	Methyl Tert Butyl Ether	Methyl-tert butyl ether	Toluene	Total Xylenes	Xylenes (total)
Well ID	**Date**								
2L GWQS		1	70	550	200	200	1000	530	530
GCL		5000	70000	550000	200000	200000	257500	87500	87500
UST900-MW05	7/25/2005	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
UST900-MW05	10/19/2005	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
UST900-MW05	1/10/2006	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
UST900-MW05	4/17/2006	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
UST900-MW05	7/19/2006	BQL	BQL	BQL	BQL	BQL	1.02	BQL	BQL
UST900-MW05	10/16/2006	BQL	BQL	BQL	BQL	BQL	1.05	BQL	BQL
UST900-MW05	1/15/2007	BQL	BQL	BQL	BQL	BQL	0.59	BQL	BQL
UST900-MW05	3/13/2007	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL

Notes:
1. 2L GWQS = North Carolina groundwater quality standard 15A NCAC 2L .0202
2. GCL = Gross Contamination Levels for ground water as defined in "Guidelines for Assessment and Corrective Action" North Carolina Underground Storage Tank Section, effective July 1, 2001
3. All units are in ug/L (Micrograms per Liter)
4. BQL = Below Quantitaion Limits
5. A zero in the 2L GWQS row indicates the 2L Standard is equal to the laboratory detection limit
6. A zero in the GCL row indicates a GCL has not been established
7. Shaded concentrations indicate exceedance of the 2L GWQS
8. Only compounds which were detected are shown on table. All other compounds were BQL
9. Please note, compounds reported in duplicate columns are the result of multiple laboratories submitting EDD data with different nomenclature. Unless BQL appears in both duplicate columns, a detection is present and that concentration is reported numerically.

TABLE 15.3

SITE 900

GROUNDWATER LABORATORY ANALYTICAL RESULTS - JULY 2005 TO DECEMBER 2007

EPA METHOD 602

Contaminant of Concern →		Benzene	Diisopropyl ether (DIPE)	Ethylbenzene	Methyl Tert Butyl Ether	Methyl-tert butyl ether	Toluene	Total Xylenes	Xylenes (total)
Well ID	**Date**								
2L GWQS		1	70	550	200	200	1000	530	530
GCL		5000	70000	550000	200000	200000	257500	87500	87500
UST900-MW06	7/26/2005	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
UST900-MW06	10/20/2005	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
UST900-MW06	1/11/2006	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
UST900-MW06	4/17/2006	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
UST900-MW06	7/18/2006	BQL	BQL	BQL	BQL	BQL	1.06	1.20	BQL
UST900-MW06	10/17/2006	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
UST900-MW06	1/16/2007	BQL	BQL	0.20	BQL	BQL	0.50	BQL	BQL
UST900-MW06	3/13/2007	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
UST900-MW07	3/13/2007	0.28	BQL	BQL	BQL	BQL	BQL	BQL	BQL

Notes:
1. 2L GWQS = North Carolina groundwater quality standard 15A NCAC 2L .0202
2. GCL = Gross Contamination Levels for ground water as defined in "Guidelines for Assessment and Corrective Action" North Carolina Underground Storage Tank Section, effective July 1, 2001
3. All units are in ug/L (Micrograms per Liter)
4. BQL = Below Quantitaion Limits
5. A zero in the 2L GWQS row indicates the 2L Standard is equal to the laboratory detection limit
6. A zero in the GCL row indicates a GCL has not been established
7. Shaded concentrations indicate exceedance of the 2L GWQS
8. Only compounds which were detected are shown on table. All other compounds were BQL
9. Please note, compounds reported in duplicate columns are the result of multiple laboratories submitting EDD data with different nomenclature. Unless BQL appears in both duplicate columns, a detection is present and that concentration is reported numerically.

TABLE 15.3

SITE 900

GROUNDWATER LABORATORY ANALYTICAL RESULTS - JULY 2005 TO DECEMBER 2007

EPA METHOD 602

Contaminant of Concern →		Benzene	Diisopropyl ether (DIPE)	Ethylbenzene	Methyl Tert Butyl Ether	Methyl-tert butyl ether	Toluene	Total Xylenes	Xylenes (total)
Well ID	**Date**								
2L GWQS		1	70	550	200	200	1000	530	530
GCL		5000	70000	550000	200000	200000	257500	87500	87500
UST900-MW08	7/25/2005	BQL	BQL	BQL	1.50	BQL	BQL	BQL	BQL
UST900-MW08	10/19/2005	BQL	BQL	BQL	1.50	BQL	BQL	BQL	1.70
UST900-MW08	1/10/2006	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
UST900-MW08	4/17/2006	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
UST900-MW08	7/19/2006	BQL	BQL	0.43	BQL	BQL	1.79	3.35	BQL
UST900-MW08	10/17/2006	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
UST900-MW08	1/15/2007	BQL	BQL	0.31	BQL	BQL	0.89	0.63	BQL
UST900-MW08	3/13/2007	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL

Notes:
1. 2L GWQS = North Carolina groundwater quality standard 15A NCAC 2L .0202
2. GCL = Gross Contamination Levels for ground water as defined in "Guidelines for Assessment and Corrective Action" North Carolina Underground Storage Tank Section, effective July 1, 2001
3. All units are in ug/L (Micrograms per Liter)
4. BQL = Below Quantitaion Limits
5. A zero in the 2L GWQS row indicates the 2L Standard is equal to the laboratory detection limit
6. A zero in the GCL row indicates a GCL has not been established
7. Shaded concentrations indicate exceedance of the 2L GWQS
8. Only compounds which were detected are shown on table. All other compounds were BQL
9. Please note, compounds reported in duplicate columns are the result of multiple laboratories submitting EDD data with different nomenclature. Unless BQL appears in both duplicate columns, a detection is present and that concentration is reported numerically.

TABLE 15.3

SITE 900

GROUNDWATER LABORATORY ANALYTICAL RESULTS - JULY 2005 TO DECEMBER 2007

EPA METHOD 602

Contaminant of Concern →		Benzene	Diisopropyl ether (DIPE)	Ethylbenzene	Methyl Tert Butyl Ether	Methyl-tert butyl ether	Toluene	Total Xylenes	Xylenes (total)
Well ID	**Date**								
2L GWQS		1	70	550	200	200	1000	530	530
GCL		5000	70000	550000	200000	200000	257500	87500	87500
UST900-MW09	7/25/2005	**91.50**	BQL	10.20	BQL	BQL	1.30	BQL	3.30
UST900-MW09	10/19/2005	**98.50**	BQL	4.90	BQL	BQL	1.40	BQL	4.00
UST900-MW09	1/10/2006	**133.00**	7.10	11.70	BQL	BQL	BQL	BQL	BQL
UST900-MW09	4/17/2006	**110.00**	4.08	18.70	BQL	BQL	BQL	BQL	BQL
UST900-MW09	7/18/2006	**133.00**	6.72	44.40	BQL	BQL	3.38	BQL	BQL
UST900-MW09	10/17/2006	**83.40**	BQL	4.73	BQL	BQL	BQL	BQL	BQL
UST900-MW09	1/15/2007	**151.00**	8.70	25.90	BQL	BQL	BQL	BQL	BQL
UST900-MW09	3/13/2007	**125.00**	6.63	17.00	BQL	BQL	BQL	BQL	BQL

Notes:
1. 2L GWQS = North Carolina groundwater quality standard 15A NCAC 2L .0202
2. GCL = Gross Contamination Levels for ground water as defined in "Guidelines for Assessment and Corrective Action" North Carolina Underground Storage Tank Section, effective July 1, 2001
3. All units are in ug/L (Micrograms per Liter)
4. BQL = Below Quantitaion Limits
5. A zero in the 2L GWQS row indicates the 2L Standard is equal to the laboratory detection limit
6. A zero in the GCL row indicates a GCL has not been established
7. Shaded concentrations indicate exceedance of the 2L GWQS
8. Only compounds which were detected are shown on table. All other compounds were BQL
9. Please note, compounds reported in duplicate columns are the result of multiple laboratories submitting EDD data with different nomenclature. Unless BQL appears in both duplicate columns, a detection is present and that concentration is reported numerically.

TABLE 15.3

SITE 900

GROUNDWATER LABORATORY ANALYTICAL RESULTS - JULY 2005 TO DECEMBER 2007

EPA METHOD 602

Contaminant of Concern →		Benzene	Diisopropyl ether (DIPE)	Ethylbenzene	Methyl Tert Butyl Ether	Methyl-tert butyl ether	Toluene	Total Xylenes	Xylenes (total)
Well ID	**Date**								
2L GWQS		1	70	550	200	200	1000	530	530
GCL		5000	70000	550000	200000	200000	257500	87500	87500
UST900-MW10	7/25/2005	**2.60**	BQL	BQL	BQL	BQL	BQL	BQL	BQL
UST900-MW10	10/19/2005	**2.60**	BQL	BQL	BQL	BQL	0.59	BQL	BQL
UST900-MW10	1/10/2006	**2.33**	BQL	BQL	BQL	BQL	BQL	BQL	BQL
UST900-MW10	4/17/2006	**2.47**	BQL	BQL	BQL	BQL	BQL	BQL	BQL
UST900-MW10	7/19/2006	**2.47**	BQL	BQL	BQL	BQL	1.19	1.09	BQL
UST900-MW10	10/16/2006	**1.77**	BQL	BQL	BQL	BQL	BQL	BQL	BQL
UST900-MW10	1/15/2007	**2.29**	BQL	0.45	BQL	BQL	0.93	BQL	BQL
UST900-MW10	3/13/2007	**1.93**	BQL	BQL	BQL	BQL	BQL	BQL	BQL

Notes:
1. 2L GWQS = North Carolina groundwater quality standard 15A NCAC 2L .0202
2. GCL = Gross Contamination Levels for ground water as defined in "Guidelines for Assessment and Corrective Action" North Carolina Underground Storage Tank Section, effective July 1, 2001
3. All units are in ug/L (Micrograms per Liter)
4. BQL = Below Quantitaion Limits
5. A zero in the 2L GWQS row indicates the 2L Standard is equal to the laboratory detection limit
6. A zero in the GCL row indicates a GCL has not been established
7. Shaded concentrations indicate exceedance of the 2L GWQS
8. Only compounds which were detected are shown on table. All other compounds were BQL
9. Please note, compounds reported in duplicate columns are the result of multiple laboratories submitting EDD data with different nomenclature. Unless BQL appears in both duplicate columns, a detection is present and that concentration is reported numerically.

TABLE 15.4

SITE 900

GROUNDWATER LABORATORY ANALYTICAL RESULTS - JULY 2005 TO DECEMBER 2007

EPA METHOD 625

Contaminant of Concern →		2,4-Dimethylphenol	2,6-Dinitrotoluene	Nitrophenol-4	Acenaphthene	Bis(2-ethylhexyl)phthalate	Diethyl phthalate	Di-n-octylphthalate	Fluoranthene	Fluorene	Naphthalene	N-Nitrosodi-n-	Phenanthrene	Phenol
Well ID	**Date**													
2L GWQS		140	0	0	80	2.5	5000	140	280	280	21	0	210	300
GCL		140000	0	0	2120	2500	0	0	280	950	15500	0	410	335000
IR78-GW22	7/26/2005	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	1.90	BQL	BQL	BQL	BQL
IR78-GW22	10/20/2005	BQL	BQL	BQL	1.10	BQL	BQL	BQL	BQL	2.50	BQL	BQL	BQL	BQL
IR78-GW22	1/11/2006	BQL	BQL	BQL	BQL	3.10	BQL	BQL	BQL	1.60	BQL	BQL	BQL	BQL
IR78-GW22	4/17/2006	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	1.50	BQL	BQL	BQL	BQL
IR78-GW22	7/18/2006	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	1.70	BQL	BQL	BQL	BQL
IR78-GW22	10/17/2006	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
IR78-GW22	1/16/2007	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
IR78-GW22	3/13/2007	BQL	BQL	BQL	BQL	BQL	BQL	5.30	BQL	BQL	BQL	BQL	BQL	BQL

Notes:
1. 2L GWQS = North Carolina groundwater quality standard 15A NCAC 2L .0202
2. GCL = Gross Contamination Levels for ground water as defined in "Guidelines for Assessment and Corrective Action" North Carolina Underground Storage Tank Section, effective July 1, 2001
3. All units are in ug/L (Micrograms per Liter)
4. BQL = Below Quantitaion Limits
5. A zero in the 2L GWQS row indicates the 2L Standard is equal to the laboratory detection limit
6. A zero in the GCL row indicates a GCL has not been established
7. Shaded concentrations indicate exceedance of the 2L GWQS
8. Only compounds which were detected are shown on table. All other compounds were BQL

TABLE 15.4

SITE 900

GROUNDWATER LABORATORY ANALYTICAL RESULTS - JULY 2005 TO DECEMBER 2007

EPA METHOD 625

Contaminant of Concern →		2,4-Dimethylphenol	2,6-Dinitrotoluene	Nitrophenol-4	Acenaphthene	Bis(2-ethylhexyl)phthalate	Diethyl phthalate	Di-n-octylphthalate	Fluoranthene	Fluorene	Naphthalene	N-Nitrosodi-n-	Phenanthrene	Phenol
Well ID	**Date**													
	2L GWQS	140	0	0	80	2.5	5000	140	280	280	21	0	210	300
	GCL	140000	0	0	2120	2500	0	0	280	950	15500	0	410	335000
IR78-GW23	7/26/2005	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	1.10	BQL	BQL	BQL
IR78-GW23	10/20/2005	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	1.20	BQL	BQL	BQL
IR78-GW23	1/11/2006	BQL	BQL	BQL	BQL	38.00	BQL	BQL	BQL	BQL	1.20	BQL	BQL	BQL
IR78-GW23	4/17/2006	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	1.20	BQL	BQL	BQL
IR78-GW23	7/18/2006	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
IR78-GW23	10/17/2006	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
IR78-GW23	1/16/2007	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	1.20	BQL	BQL	BQL
IR78-GW23	3/13/2007	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	1.50	BQL	BQL	BQL

Notes:
1. 2L GWQS = North Carolina groundwater quality standard 15A NCAC 2L .0202
2. GCL = Gross Contamination Levels for ground water as defined in "Guidelines for Assessment and Corrective Action" North Carolina Underground Storage Tank Section, effective July 1, 2001
3. All units are in ug/L (Micrograms per Liter)
4. BQL = Below Quantitaion Limits
5. A zero in the 2L GWQS row indicates the 2L Standard is equal to the laboratory detection limit
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8. Only compounds which were detected are shown on table. All other compounds were BQL

TABLE 15.4

SITE 900

GROUNDWATER LABORATORY ANALYTICAL RESULTS - JULY 2005 TO DECEMBER 2007

EPA METHOD 625

Contaminant of Concern →		2,4-Dimethylphenol	2,6-Dinitrotoluene	Nitrophenol-4	Acenaphthene	Bis(2-ethylhexyl)phthalate	Diethyl phthalate	Di-n-octylphthalate	Fluoranthene	Fluorene	Naphthalene	N-Nitrosodi-n-	Phenanthrene	Phenol
Well ID	**Date**													
2L GWQS		140	0	0	80	2.5	5000	140	280	280	21	0	210	300
GCL		140000	0	0	2120	2500	0	0	280	950	15500	0	410	335000
IR78-RW10	7/26/2005	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	5.10	BQL	BQL	BQL
IR78-RW10	10/20/2005	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	10.40	BQL	BQL	BQL
IR78-RW10	1/11/2006	BQL	BQL	BQL	BQL	6.50	BQL	BQL	BQL	BQL	11.90	BQL	BQL	4.90
IR78-RW10	4/17/2006	BQL	BQL	BQL	3.10	BQL	BQL	BQL	BQL	BQL	7.90	BQL	BQL	BQL
IR78-RW10	7/18/2006	BQL	BQL	BQL	21.00	BQL	BQL	BQL	BQL	1.80	4.80	BQL	1.90	BQL
IR78-RW10	10/17/2006	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
IR78-RW10	1/16/2007	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	4.80	BQL	BQL	BQL
IR78-RW10	3/13/2007	BQL	BQL	BQL	BQL	BQL	BQL	6.70	BQL	BQL	7.90	BQL	BQL	BQL

Notes:
1. 2L GWQS = North Carolina groundwater quality standard 15A NCAC 2L .0202
2. GCL = Gross Contamination Levels for ground water as defined in "Guidelines for Assessment and Corrective Action" North Carolina Underground Storage Tank Section, effective July 1, 2001
3. All units are in ug/L (Micrograms per Liter)
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5. A zero in the 2L GWQS row indicates the 2L Standard is equal to the laboratory detection limit
6. A zero in the GCL row indicates a GCL has not been established
7. Shaded concentrations indicate exceedance of the 2L GWQS
8. Only compounds which were detected are shown on table. All other compounds were BQL

TABLE 15.4

SITE 900

GROUNDWATER LABORATORY ANALYTICAL RESULTS - JULY 2005 TO DECEMBER 2007

EPA METHOD 625

Contaminant of Concern →		2,4-Dimethylphenol	2,6-Dinitrotoluene	Nitrophenol-4	Acenaphthene	Bis(2-ethylhexyl)phthalate	Diethyl phthalate	Di-n-octylphthalate	Fluoranthene	Fluorene	Naphthalene	N-Nitrosodi-n-	Phenanthrene	Phenol
Well ID	Date													
2L GWQS		140	0	0	80	2.5	5000	140	280	280	21	0	210	300
GCL		140000	0	0	2120	2500	0	0	280	950	15500	0	410	335000
UST900-MW01	7/26/2005	BQL	BQL	BQL	10.40	BQL	BQL	BQL	BQL	1.50	BQL	BQL	BQL	BQL
UST900-MW01	10/19/2005	BQL	BQL	BQL	15.10	BQL	BQL	BQL	1.10	2.20	BQL	BQL	BQL	BQL
UST900-MW01	1/11/2006	BQL	BQL	BQL	12.30	**15.50**	BQL	BQL	BQL	1.90	BQL	BQL	BQL	BQL
UST900-MW01	4/17/2006	BQL	BQL	BQL	9.40	BQL	BQL	BQL	BQL	1.50	BQL	BQL	BQL	BQL
UST900-MW01	7/19/2006	BQL	**19.40**	**27.30**	12.10	BQL	BQL	BQL	BQL	1.30	BQL	**21.40**	BQL	BQL
UST900-MW01	10/16/2006	BQL	BQL	BQL	10.80	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
UST900-MW01	1/15/2007	BQL	BQL	BQL	11.00	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
UST900-MW01	3/13/2007	BQL	BQL	BQL	9.40	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL

Notes:
1. 2L GWQS = North Carolina groundwater quality standard 15A NCAC 2L .0202
2. GCL = Gross Contamination Levels for ground water as defined in "Guidelines for Assessment and Corrective Action" North Carolina Underground Storage Tank Section, effective July 1, 2001
3. All units are in ug/L (Micrograms per Liter)
4. BQL = Below Quantitaion Limits
5. A zero in the 2L GWQS row indicates the 2L Standard is equal to the laboratory detection limit
6. A zero in the GCL row indicates a GCL has not been established
7. Shaded concentrations indicate exceedance of the 2L GWQS
8. Only compounds which were detected are shown on table. All other compounds were BQL

TABLE 15.4

SITE 900

GROUNDWATER LABORATORY ANALYTICAL RESULTS - JULY 2005 TO DECEMBER 2007

EPA METHOD 625

Contaminant of Concern →		2,4-Dimethylphenol	2,6-Dinitrotoluene	Nitrophenol-4	Acenaphthene	Bis(2-ethylhexyl)phthalate	Diethyl phthalate	Di-n-octylphthalate	Fluoranthene	Fluorene	Naphthalene	N-Nitrosodi-n-	Phenanthrene	Phenol
Well ID	**Date**													
	2L GWQS	140	0	0	80	2.5	5000	140	280	280	21	0	210	300
	GCL	140000	0	0	2120	2500	0	0	280	950	15500	0	410	335000
UST900-MW02	7/25/2005	BQL	BQL	BQL	1.20	BQL	BQL	BQL	BQL	BQL	**29.00**	BQL	BQL	BQL
UST900-MW02	10/19/2005	BQL	BQL	BQL	2.60	BQL	BQL	BQL	BQL	1.10	**89.40**	BQL	1.10	BQL
UST900-MW02	1/11/2006	BQL	BQL	BQL	BQL	**20.10**	BQL	BQL	BQL	BQL	**33.50**	BQL	BQL	BQL
UST900-MW02	4/17/2006	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	**43.10**	BQL	BQL	BQL
UST900-MW02	7/19/2006	BQL	BQL	BQL	1.30	BQL	BQL	BQL	BQL	BQL	**61.20**	BQL	BQL	BQL
UST900-MW02	10/16/2006	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	**24.50**	BQL	BQL	BQL
UST900-MW02	1/15/2007	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	16.30	BQL	BQL	BQL
UST900-MW02	3/13/2007	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	5.40	BQL	BQL	BQL

Notes:
1. 2L GWQS = North Carolina groundwater quality standard 15A NCAC 2L .0202
2. GCL = Gross Contamination Levels for ground water as defined in "Guidelines for Assessment and Corrective Action" North Carolina Underground Storage Tank Section, effective July 1, 2001
3. All units are in ug/L (Micrograms per Liter)
4. BQL = Below Quantitaion Limits
5. A zero in the 2L GWQS row indicates the 2L Standard is equal to the laboratory detection limit
6. A zero in the GCL row indicates a GCL has not been established
7. Shaded concentrations indicate exceedance of the 2L GWQS
8. Only compounds which were detected are shown on table. All other compounds were BQL

TABLE 15.4

SITE 900

GROUNDWATER LABORATORY ANALYTICAL RESULTS - JULY 2005 TO DECEMBER 2007

EPA METHOD 625

Contaminant of Concern →		2,4-Dimethylphenol	2,6-Dinitrotoluene	Nitrophenol-4	Acenaphthene	Bis(2-ethylhexyl)phthalate	Diethyl phthalate	Di-n-octylphthalate	Fluoranthene	Fluorene	Naphthalene	N-Nitrosodi-n-	Phenanthrene	Phenol
Well ID	**Date**													
	2L GWQS	140	0	0	80	2.5	5000	140	280	280	21	0	210	300
	GCL	140000	0	0	2120	2500	0	0	280	950	15500	0	410	335000
UST900-MW03	7/25/2005	BQL	BQL	BQL	1.10	BQL	3.00	BQL	BQL	BQL	BQL	BQL	BQL	BQL
UST900-MW03	10/19/2005	BQL	BQL	BQL	2.10	BQL	BQL	BQL	BQL	1.40	BQL	BQL	BQL	BQL
UST900-MW03	1/11/2006	BQL	BQL	BQL	BQL	24.10	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
UST900-MW03	4/17/2006	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
UST900-MW03	7/18/2006	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
UST900-MW03	10/16/2006	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
UST900-MW03	1/15/2007	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
UST900-MW03	3/13/2007	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL

Notes:
1. 2L GWQS = North Carolina groundwater quality standard 15A NCAC 2L .0202
2. GCL = Gross Contamination Levels for ground water as defined in "Guidelines for Assessment and Corrective Action" North Carolina Underground Storage Tank Section, effective July 1, 2001
3. All units are in ug/L (Micrograms per Liter)
4. BQL = Below Quantitaion Limits
5. A zero in the 2L GWQS row indicates the 2L Standard is equal to the laboratory detection limit
6. A zero in the GCL row indicates a GCL has not been established
7. Shaded concentrations indicate exceedance of the 2L GWQS
8. Only compounds which were detected are shown on table. All other compounds were BQL

TABLE 15.4

SITE 900

GROUNDWATER LABORATORY ANALYTICAL RESULTS - JULY 2005 TO DECEMBER 2007

EPA METHOD 625

Contaminant of Concern →		2,4-Dimethylphenol	2,6-Dinitrotoluene	Nitrophenol-4	Acenaphthene	Bis(2-ethylhexyl)phthalate	Diethyl phthalate	Di-n-octylphthalate	Fluoranthene	Fluorene	Naphthalene	N-Nitrosodi-n-	Phenanthrene	Phenol
Well ID	**Date**													
	2L GWQS	140	0	0	80	2.5	5000	140	280	280	21	0	210	300
	GCL	140000	0	0	2120	2500	0	0	280	950	15500	0	410	335000
UST900-MW04	7/25/2005	2.30	BQL	BQL	1.40	BQL	BQL	BQL	BQL	BQL	**144.00**	BQL	BQL	BQL
UST900-MW04	10/19/2005	BQL	BQL	BQL	1.60	BQL	BQL	BQL	BQL	BQL	**122.00**	BQL	BQL	BQL
UST900-MW04	1/11/2006	BQL	BQL	BQL	BQL	**16.10**	BQL	BQL	BQL	BQL	**127.00**	BQL	BQL	13.50
UST900-MW04	4/17/2006	BQL	BQL	BQL	BQL	**9.10**	BQL	BQL	BQL	BQL	**109.00**	BQL	BQL	9.30
UST900-MW04	7/18/2006	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	**131.00**	BQL	BQL	18.00
UST900-MW04	10/16/2006	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	**87.60**	BQL	BQL	BQL
UST900-MW04	1/15/2007	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	**57.80**	BQL	BQL	BQL
UST900-MW04	3/13/2007	BQL	BQL	BQL	BQL	BQL	BQL	6.70	BQL	BQL	**41.30**	BQL	BQL	5.10

Notes:
1. 2L GWQS = North Carolina groundwater quality standard 15A NCAC 2L .0202
2. GCL = Gross Contamination Levels for ground water as defined in "Guidelines for Assessment and Corrective Action" North Carolina Underground Storage Tank Section, effective July 1, 2001
3. All units are in ug/L (Micrograms per Liter)
4. BQL = Below Quantitaion Limits
5. A zero in the 2L GWQS row indicates the 2L Standard is equal to the laboratory detection limit
6. A zero in the GCL row indicates a GCL has not been established
7. Shaded concentrations indicate exceedance of the 2L GWQS
8. Only compounds which were detected are shown on table. All other compounds were BQL

TABLE 15.4

SITE 900

GROUNDWATER LABORATORY ANALYTICAL RESULTS - JULY 2005 TO DECEMBER 2007

EPA METHOD 625

Contaminant of Concern →		2,4-Dimethylphenol	2,6-Dinitrotoluene	Nitrophenol-4	Acenaphthene	Bis(2-ethylhexyl)phthalate	Diethyl phthalate	Di-n-octylphthalate	Fluoranthene	Fluorene	Naphthalene	N-Nitrosodi-n-	Phenanthrene	Phenol
Well ID	**Date**													
	2L GWQS	140	0	0	80	2.5	5000	140	280	280	21	0	210	300
	GCL	140000	0	0	2120	2500	0	0	280	950	15500	0	410	335000
UST900-MW05	7/25/2005	BQL	BQL	BQL	2.20	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
UST900-MW05	10/19/2005	BQL	BQL	BQL	4.30	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
UST900-MW05	1/10/2006	BQL	BQL	BQL	2.30	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
UST900-MW05	4/17/2006	BQL	BQL	BQL	3.50	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
UST900-MW05	7/19/2006	BQL	BQL	BQL	8.60	BQL	BQL	BQL	BQL	1.40	BQL	BQL	BQL	BQL
UST900-MW05	10/16/2006	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
UST900-MW05	1/15/2007	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
UST900-MW05	3/13/2007	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL

Notes:
1. 2L GWQS = North Carolina groundwater quality standard 15A NCAC 2L .0202
2. GCL = Gross Contamination Levels for ground water as defined in "Guidelines for Assessment and Corrective Action" North Carolina Underground Storage Tank Section, effective July 1, 2001
3. All units are in ug/L (Micrograms per Liter)
4. BQL = Below Quantitaion Limits
5. A zero in the 2L GWQS row indicates the 2L Standard is equal to the laboratory detection limit
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SITE 900

GROUNDWATER LABORATORY ANALYTICAL RESULTS - JULY 2005 TO DECEMBER 2007

EPA METHOD 625

Contaminant of Concern →		2,4-Dimethylphenol	2,6-Dinitrotoluene	Nitrophenol-4	Acenaphthene	Bis(2-ethylhexyl)phthalate	Diethyl phthalate	Di-n-octylphthalate	Fluoranthene	Fluorene	Naphthalene	N-Nitrosodi-n-	Phenanthrene	Phenol
Well ID	Date													
2L GWQS		140	0	0	80	2.5	5000	140	280	280	21	0	210	300
GCL		140000	0	0	2120	2500	0	0	280	950	15500	0	410	335000
UST900-MW06	7/26/2005	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
UST900-MW06	10/20/2005	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
UST900-MW06	1/11/2006	BQL	BQL	BQL	BQL	17.60	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
UST900-MW06	4/17/2006	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
UST900-MW06	7/18/2006	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
UST900-MW06	10/17/2006	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
UST900-MW06	1/16/2007	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
UST900-MW06	3/13/2007	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
UST900-MW07	3/13/2007	BQL	BQL	BQL	BQL	BQL	BQL	6.70	BQL	BQL	BQL	BQL	BQL	BQL

Notes:
1. 2L GWQS = North Carolina groundwater quality standard 15A NCAC 2L .0202
2. GCL = Gross Contamination Levels for ground water as defined in "Guidelines for Assessment and Corrective Action" North Carolina Underground Storage Tank Section, effective July 1, 2001
3. All units are in ug/L (Micrograms per Liter)
4. BQL = Below Quantitaion Limits
5. A zero in the 2L GWQS row indicates the 2L Standard is equal to the laboratory detection limit
6. A zero in the GCL row indicates a GCL has not been established
7. Shaded concentrations indicate exceedance of the 2L GWQS
8. Only compounds which were detected are shown on table. All other compounds were BQL

TABLE 15.4

SITE 900

GROUNDWATER LABORATORY ANALYTICAL RESULTS - JULY 2005 TO DECEMBER 2007

EPA METHOD 625

Contaminant of Concern →		2,4-Dimethylphenol	2,6-Dinitrotoluene	Nitrophenol-4	Acenaphthene	Bis(2-ethylhexyl)phthalate	Diethyl phthalate	Di-n-octylphthalate	Fluoranthene	Fluorene	Naphthalene	N-Nitrosodi-n-	Phenanthrene	Phenol
Well ID	**Date**													
2L GWQS		140	0	0	80	2.5	5000	140	280	280	21	0	210	300
GCL		140000	0	0	2120	2500	0	0	280	950	15500	0	410	335000
UST900-MW08	7/25/2005	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	2.40	BQL	BQL	BQL
UST900-MW08	10/19/2005	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	2.60	BQL	BQL	BQL
UST900-MW08	1/10/2006	BQL	BQL	BQL	BQL	3.10	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
UST900-MW08	4/17/2006	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
UST900-MW08	7/19/2006	BQL	BQL	BQL	BQL	2.20	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
UST900-MW08	10/17/2006	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
UST900-MW08	1/15/2007	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	1.90	BQL	BQL	BQL
UST900-MW08	3/13/2007	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL

Notes:
1. 2L GWQS = North Carolina groundwater quality standard 15A NCAC 2L .0202
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4. BQL = Below Quantitaion Limits
5. A zero in the 2L GWQS row indicates the 2L Standard is equal to the laboratory detection limit
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8. Only compounds which were detected are shown on table. All other compounds were BQL

TABLE 15.4

SITE 900

GROUNDWATER LABORATORY ANALYTICAL RESULTS - JULY 2005 TO DECEMBER 2007

EPA METHOD 625

Contaminant of Concern →		2,4-Dimethylphenol	2,6-Dinitrotoluene	Nitrophenol-4	Acenaphthene	Bis(2-ethylhexyl)phthalate	Diethyl phthalate	Di-n-octylphthalate	Fluoranthene	Fluorene	Naphthalene	N-Nitrosodi-n-	Phenanthrene	Phenol
Well ID	**Date**													
2L GWQS		140	0	0	80	2.5	5000	140	280	280	21	0	210	300
GCL		140000	0	0	2120	2500	0	0	280	950	15500	0	410	335000
UST900-MW09	7/25/2005	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	**21.10**	BQL	BQL	BQL
UST900-MW09	10/19/2005	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	20.20	BQL	BQL	BQL
UST900-MW09	1/10/2006	BQL	BQL	BQL	BQL	**3.70**	BQL	BQL	BQL	BQL	**23.70**	BQL	BQL	BQL
UST900-MW09	4/17/2006	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	**22.60**	BQL	BQL	BQL
UST900-MW09	7/18/2006	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	**31.90**	BQL	BQL	BQL
UST900-MW09	10/17/2006	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	**21.90**	BQL	BQL	BQL
UST900-MW09	1/15/2007	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	16.90	BQL	BQL	BQL
UST900-MW09	3/13/2007	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	16.00	BQL	BQL	BQL

Notes:
1. 2L GWQS = North Carolina groundwater quality standard 15A NCAC 2L .0202
2. GCL = Gross Contamination Levels for ground water as defined in "Guidelines for Assessment and Corrective Action" North Carolina Underground Storage Tank Section, effective July 1, 2001
3. All units are in ug/L (Micrograms per Liter)
4. BQL = Below Quantitaion Limits
5. A zero in the 2L GWQS row indicates the 2L Standard is equal to the laboratory detection limit
6. A zero in the GCL row indicates a GCL has not been established
7. Shaded concentrations indicate exceedance of the 2L GWQS
8. Only compounds which were detected are shown on table. All other compounds were BQL

TABLE 15.4

SITE 900

GROUNDWATER LABORATORY ANALYTICAL RESULTS - JULY 2005 TO DECEMBER 2007

EPA METHOD 625

Contaminant of Concern →		2,4-Dimethylphenol	2,6-Dinitrotoluene	Nitrophenol-4	Acenaphthene	Bis(2-ethylhexyl)phthalate	Diethyl phthalate	Di-n-octylphthalate	Fluoranthene	Fluorene	Naphthalene	N-Nitrosodi-n-	Phenanthrene	Phenol
Well ID	**Date**													
	2L GWQS	140	0	0	80	2.5	5000	140	280	280	21	0	210	300
	GCL	140000	0	0	2120	2500	0	0	280	950	15500	0	410	335000
UST900-MW10	7/25/2005	BQL	BQL	BQL	2.50	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
UST900-MW10	10/19/2005	BQL	BQL	BQL	2.90	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
UST900-MW10	1/10/2006	BQL	BQL	BQL	1.60	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
UST900-MW10	4/17/2006	BQL	BQL	BQL	2.40	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
UST900-MW10	7/19/2006	BQL	BQL	BQL	2.60	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
UST900-MW10	10/16/2006	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
UST900-MW10	1/15/2007	BQL	BQL	BQL	2.90	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
UST900-MW10	3/13/2007	BQL	BQL	BQL	3.20	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL

Notes:
1. 2L GWQS = North Carolina groundwater quality standard 15A NCAC 2L .0202
2. GCL = Gross Contamination Levels for ground water as defined in "Guidelines for Assessment and Corrective Action" North Carolina Underground Storage Tank Section, effective July 1, 2001
3. All units are in ug/L (Micrograms per Liter)
4. BQL = Below Quantitaion Limits
5. A zero in the 2L GWQS row indicates the 2L Standard is equal to the laboratory detection limit
6. A zero in the GCL row indicates a GCL has not been established
7. Shaded concentrations indicate exceedance of the 2L GWQS
8. Only compounds which were detected are shown on table. All other compounds were BQL

TABLE 15.5

SITE 900

GROUNDWATER LABORATORY ANALYTICAL RESULTS - JULY 2005 TO DECEMBER 2007

EPA METHOD 6020

Contaminant of Concern →		
Well ID	**Date**	**Lead**
	2L GWQS	15
	GCL	15000
IR78-GW22	1/11/2006	BQL
IR78-GW22	4/17/2006	BQL
IR78-GW22	7/18/2006	BQL
IR78-GW22	10/17/2006	BQL
IR78-GW23	1/11/2006	BQL
IR78-GW23	4/17/2006	BQL
IR78-GW23	7/18/2006	BQL
IR78-GW23	10/17/2006	BQL
IR78-RW10	1/11/2006	1.50
IR78-RW10	4/17/2006	BQL
IR78-RW10	7/18/2006	BQL
IR78-RW10	10/17/2006	BQL

Notes:
1. 2L GWQS = North Carolina groundwater quality standard 15A NCAC 2L .0202
2. GCL = Gross Contamination Levels for ground water as defined in "Guidelines for Assessment and Corrective Action" North Carolina Underground Storage Tank Section, effective July 1, 2001
3. All units are in ug/L (Micrograms per Liter)
4. BQL = Below Quantitaion Limits
5. A zero in the 2L GWQS row indicates the 2L Standard is equal to the laboratory detection limit
6. A zero in the GCL row indicates a GCL has not been established
7. Shaded concentrations indicate exceedance of the 2L GWQS
8. Only compounds which were detected are shown on table. All other compounds were BQL

TABLE 15.5

SITE 900

GROUNDWATER LABORATORY ANALYTICAL RESULTS - JULY 2005 TO DECEMBER 2007

EPA METHOD 6020

Contaminant of Concern →		
Well ID	**Date**	**Lead**
	2L GWQS	15
	GCL	15000
UST900-MW01	1/11/2006	BQL
UST900-MW01	4/17/2006	BQL
UST900-MW01	7/19/2006	BQL
UST900-MW01	10/16/2006	BQL
UST900-MW02	1/11/2006	BQL
UST900-MW02	4/17/2006	BQL
UST900-MW02	7/19/2006	BQL
UST900-MW02	10/16/2006	BQL
UST900-MW03	1/11/2006	BQL
UST900-MW03	4/17/2006	BQL
UST900-MW03	7/18/2006	BQL
UST900-MW03	10/16/2006	BQL

Notes:
1. 2L GWQS = North Carolina groundwater quality standard 15A NCAC 2L .0202
2. GCL = Gross Contamination Levels for ground water as defined in "Guidelines for Assessment and Corrective Action" North Carolina Underground Storage Tank Section, effective July 1, 2001
3. All units are in ug/L (Micrograms per Liter)
4. BQL = Below Quantitaion Limits
5. A zero in the 2L GWQS row indicates the 2L Standard is equal to the laboratory detection limit
6. A zero in the GCL row indicates a GCL has not been established
7. Shaded concentrations indicate exceedance of the 2L GWQS
8. Only compounds which were detected are shown on table. All other compounds were BQL

TABLE 15.5

SITE 900

GROUNDWATER LABORATORY ANALYTICAL RESULTS - JULY 2005 TO DECEMBER 2007

EPA METHOD 6020

Contaminant of Concern →		
Well ID	**Date**	**Lead**
	2L GWQS	15
	GCL	15000
UST900-MW04	1/11/2006	BQL
UST900-MW04	4/17/2006	BQL
UST900-MW04	7/18/2006	BQL
UST900-MW04	10/16/2006	BQL
UST900-MW05	1/10/2006	BQL
UST900-MW05	4/17/2006	BQL
UST900-MW05	7/19/2006	41.70
UST900-MW05	10/16/2006	BQL
UST900-MW06	1/11/2006	BQL
UST900-MW06	4/17/2006	BQL
UST900-MW06	7/18/2006	BQL
UST900-MW06	10/17/2006	BQL

Notes:
1. 2L GWQS = North Carolina groundwater quality standard 15A NCAC 2L .0202
2. GCL = Gross Contamination Levels for ground water as defined in "Guidelines for Assessment and Corrective Action" North Carolina Underground Storage Tank Section, effective July 1, 2001
3. All units are in ug/L (Micrograms per Liter)
4. BQL = Below Quantitaion Limits
5. A zero in the 2L GWQS row indicates the 2L Standard is equal to the laboratory detection limit
6. A zero in the GCL row indicates a GCL has not been established
7. Shaded concentrations indicate exceedance of the 2L GWQS
8. Only compounds which were detected are shown on table. All other compounds were BQL

TABLE 15.5

SITE 900

GROUNDWATER LABORATORY ANALYTICAL RESULTS - JULY 2005 TO DECEMBER 2007

EPA METHOD 6020

Contaminant of Concern →		
Well ID	**Date**	**Lead**
	2L GWQS	15
	GCL	15000
UST900-MW08	1/10/2006	BQL
UST900-MW08	4/17/2006	BQL
UST900-MW08	7/19/2006	BQL
UST900-MW08	10/17/2006	BQL
UST900-MW09	1/10/2006	BQL
UST900-MW09	4/17/2006	BQL
UST900-MW09	7/18/2006	BQL
UST900-MW09	10/17/2006	BQL
UST900-MW10	1/10/2006	BQL
UST900-MW10	4/17/2006	BQL
UST900-MW10	7/19/2006	BQL
UST900-MW10	10/16/2006	BQL

Notes:
1. 2L GWQS = North Carolina groundwater quality standard 15A NCAC 2L .0202
2. GCL = Gross Contamination Levels for ground water as defined in "Guidelines for Assessment and Corrective Action" North Carolina Underground Storage Tank Section, effective July 1, 2001
3. All units are in ug/L (Micrograms per Liter)
4. BQL = Below Quantitaion Limits
5. A zero in the 2L GWQS row indicates the 2L Standard is equal to the laboratory detection limit
6. A zero in the GCL row indicates a GCL has not been established
7. Shaded concentrations indicate exceedance of the 2L GWQS
8. Only compounds which were detected are shown on table. All other compounds were BQL

TABLE 15.6

SITE 900

GROUNDWATER LABORATORY ANALYTICAL RESULTS - JULY 2005 TO DECEMBER 2007

MADEP VPH/EPH

Contaminant of Concern →		C19-C36 Aliphatics	C5-C8 Aliphatics	C9-C18 Aliphatics	C9-C22 Aromatics
Well ID	Date				
2L GWQS		42000	420	4200	210
GCL		0	0	0	0
IR78-GW22	7/26/2005	BQL	BQL	BQL	201.00
IR78-GW22	10/20/2005	BQL	BQL	BQL	189.00
IR78-GW22	1/11/2006	BQL	BQL	BQL	BQL
IR78-GW22	4/17/2006	BQL	BQL	BQL	BQL
IR78-GW22	7/18/2006	BQL	BQL	BQL	BQL
IR78-GW22	10/17/2006	BQL	BQL	BQL	BQL
IR78-GW22	1/16/2007	BQL	BQL	BQL	BQL
IR78-GW22	3/13/2007	BQL	BQL	BQL	BQL

Notes:
1. 2L GWQS = North Carolina groundwater quality standard 15A NCAC 2L .0202
2. GCL = Gross Contamination Levels for ground water as defined in "Guidelines for Assessment and Corrective Action" North Carolina Underground Storage Tank Section, effective July 1, 2001
3. All units are in ug/L (Micrograms per Liter)
4. BQL = Below Quantitaion Limits
5. A zero in the 2L GWQS row indicates the 2L Standard is equal to the laboratory detection limit
6. A zero in the GCL row indicates a GCL has not been established
7. Shaded concentrations indicate exceedance of the 2L GWQS
8. Only compounds which were detected are shown on table. All other compounds were BQL

TABLE 15.6

SITE 900

GROUNDWATER LABORATORY ANALYTICAL RESULTS - JULY 2005 TO DECEMBER 2007

MADEP VPH/EPH

Contaminant of Concern →		C19-C36 Aliphatics	C5-C8 Aliphatics	C9-C18 Aliphatics	C9-C22 Aromatics
Well ID	Date				
2L GWQS		42000	420	4200	210
GCL		0	0	0	0
IR78-GW23	7/26/2005	BQL	169.00	40.70	205.30
IR78-GW23	10/20/2005	BQL	487.00	89.60	BQL
IR78-GW23	1/11/2006	BQL	320.00	BQL	BQL
IR78-GW23	4/17/2006	BQL	310.00	BQL	BQL
IR78-GW23	7/18/2006	BQL	330.00	BQL	BQL
IR78-GW23	10/17/2006	BQL	130.00	BQL	BQL
IR78-GW23	1/16/2007	BQL	120.00	BQL	BQL
IR78-GW23	3/13/2007	BQL	150.00	120.00	BQL

Notes:
1. 2L GWQS = North Carolina groundwater quality standard 15A NCAC 2L .0202
2. GCL = Gross Contamination Levels for ground water as defined in "Guidelines for Assessment and Corrective Action" North Carolina Underground Storage Tank Section, effective July 1, 2001
3. All units are in ug/L (Micrograms per Liter)
4. BQL = Below Quantitaion Limits
5. A zero in the 2L GWQS row indicates the 2L Standard is equal to the laboratory detection limit
6. A zero in the GCL row indicates a GCL has not been established
7. Shaded concentrations indicate exceedance of the 2L GWQS
8. Only compounds which were detected are shown on table. All other compounds were BQL

TABLE 15.6

SITE 900

GROUNDWATER LABORATORY ANALYTICAL RESULTS - JULY 2005 TO DECEMBER 2007

MADEP VPH/EPH

Contaminant of Concern →		C19-C36 Aliphatics	C5-C8 Aliphatics	C9-C18 Aliphatics	C9-C22 Aromatics
Well ID	Date				
2L GWQS		42000	420	4200	210
GCL		0	0	0	0
IR78-RW10	7/26/2005	BQL	279.00	35.00	**213.20**
IR78-RW10	10/20/2005	BQL	396.00	88.20	60.70
IR78-RW10	1/11/2006	BQL	**450.00**	120.00	BQL
IR78-RW10	4/17/2006	BQL	330.00	BQL	BQL
IR78-RW10	7/18/2006	BQL	BQL	BQL	BQL
IR78-RW10	10/17/2006	BQL	**430.00**	BQL	BQL
IR78-RW10	1/16/2007	BQL	200.00	BQL	BQL
IR78-RW10	3/13/2007	BQL	360.00	BQL	BQL

Notes:
1. 2L GWQS = North Carolina groundwater quality standard 15A NCAC 2L .0202
2. GCL = Gross Contamination Levels for ground water as defined in "Guidelines for Assessment and Corrective Action" North Carolina Underground Storage Tank Section, effective July 1, 2001
3. All units are in ug/L (Micrograms per Liter)
4. BQL = Below Quantitaion Limits
5. A zero in the 2L GWQS row indicates the 2L Standard is equal to the laboratory detection limit
6. A zero in the GCL row indicates a GCL has not been established
7. Shaded concentrations indicate exceedance of the 2L GWQS
8. Only compounds which were detected are shown on table. All other compounds were BQL

TABLE 15.6

SITE 900

GROUNDWATER LABORATORY ANALYTICAL RESULTS - JULY 2005 TO DECEMBER 2007

MADEP VPH/EPH

Contaminant of Concern →		C19-C36 Aliphatics	C5-C8 Aliphatics	C9-C18 Aliphatics	C9-C22 Aromatics
Well ID	Date				
2L GWQS		42000	420	4200	210
GCL		0	0	0	0
UST900-MW01	7/26/2005	BQL	BQL	BQL	BQL
UST900-MW01	10/19/2005	211.00	BQL	212.00	145.00
UST900-MW01	1/11/2006	BQL	BQL	BQL	BQL
UST900-MW01	4/17/2006	BQL	BQL	BQL	BQL
UST900-MW01	7/19/2006	BQL	BQL	BQL	BQL
UST900-MW01	10/16/2006	BQL	BQL	BQL	BQL
UST900-MW01	1/15/2007	BQL	BQL	BQL	BQL
UST900-MW01	3/13/2007	BQL	BQL	BQL	BQL

Notes:
1. 2L GWQS = North Carolina groundwater quality standard 15A NCAC 2L .0202
2. GCL = Gross Contamination Levels for ground water as defined in "Guidelines for Assessment and Corrective Action" North Carolina Underground Storage Tank Section, effective July 1, 2001
3. All units are in ug/L (Micrograms per Liter)
4. BQL = Below Quantitaion Limits
5. A zero in the 2L GWQS row indicates the 2L Standard is equal to the laboratory detection limit
6. A zero in the GCL row indicates a GCL has not been established
7. Shaded concentrations indicate exceedance of the 2L GWQS
8. Only compounds which were detected are shown on table. All other compounds were BQL

TABLE 15.6

SITE 900

GROUNDWATER LABORATORY ANALYTICAL RESULTS - JULY 2005 TO DECEMBER 2007

MADEP VPH/EPH

Contaminant of Concern →		C19-C36 Aliphatics	C5-C8 Aliphatics	C9-C18 Aliphatics	C9-C22 Aromatics
Well ID	Date				
2L GWQS		42000	420	4200	210
GCL		0	0	0	0
UST900-MW02	7/25/2005	BQL	**1820.00**	812.00	**707.00**
UST900-MW02	10/19/2005	BQL	**2920.00**	1089.00	**826.00**
UST900-MW02	1/11/2006	BQL	**1500.00**	290.00	**300.00**
UST900-MW02	4/17/2006	BQL	**1600.00**	350.00	**360.00**
UST900-MW02	7/19/2006	BQL	**2400.00**	250.00	**320.00**
UST900-MW02	10/16/2006	BQL	**2300.00**	380.00	210.00
UST900-MW02	1/15/2007	BQL	**1300.00**	360.00	170.00
UST900-MW02	3/13/2007	BQL	**550.00**	170.00	BQL

Notes:
1. 2L GWQS = North Carolina groundwater quality standard 15A NCAC 2L .0202
2. GCL = Gross Contamination Levels for ground water as defined in "Guidelines for Assessment and Corrective Action" North Carolina Underground Storage Tank Section, effective July 1, 2001
3. All units are in ug/L (Micrograms per Liter)
4. BQL = Below Quantitaion Limits
5. A zero in the 2L GWQS row indicates the 2L Standard is equal to the laboratory detection limit
6. A zero in the GCL row indicates a GCL has not been established
7. Shaded concentrations indicate exceedance of the 2L GWQS
8. Only compounds which were detected are shown on table. All other compounds were BQL

TABLE 15.6

SITE 900

GROUNDWATER LABORATORY ANALYTICAL RESULTS - JULY 2005 TO DECEMBER 2007

MADEP VPH/EPH

Contaminant of Concern →		C19-C36 Aliphatics	C5-C8 Aliphatics	C9-C18 Aliphatics	C9-C22 Aromatics
Well ID	Date				
2L GWQS		42000	420	4200	210
GCL		0	0	0	0
UST900-MW03	7/25/2005	BQL	BQL	BQL	BQL
UST900-MW03	10/19/2005	BQL	BQL	BQL	BQL
UST900-MW03	1/11/2006	BQL	BQL	BQL	BQL
UST900-MW03	4/17/2006	BQL	BQL	BQL	BQL
UST900-MW03	7/18/2006	BQL	BQL	BQL	BQL
UST900-MW03	10/16/2006	BQL	BQL	BQL	BQL
UST900-MW03	1/15/2007	BQL	BQL	BQL	BQL
UST900-MW03	3/13/2007	BQL	BQL	BQL	BQL

Notes:
1. 2L GWQS = North Carolina groundwater quality standard 15A NCAC 2L .0202
2. GCL = Gross Contamination Levels for ground water as defined in "Guidelines for Assessment and Corrective Action" North Carolina Underground Storage Tank Section, effective July 1, 2001
3. All units are in ug/L (Micrograms per Liter)
4. BQL = Below Quantitaion Limits
5. A zero in the 2L GWQS row indicates the 2L Standard is equal to the laboratory detection limit
6. A zero in the GCL row indicates a GCL has not been established
7. Shaded concentrations indicate exceedance of the 2L GWQS
8. Only compounds which were detected are shown on table. All other compounds were BQL

TABLE 15.6

SITE 900

GROUNDWATER LABORATORY ANALYTICAL RESULTS - JULY 2005 TO DECEMBER 2007

MADEP VPH/EPH

Contaminant of Concern →		C19-C36 Aliphatics	C5-C8 Aliphatics	C9-C18 Aliphatics	C9-C22 Aromatics
Well ID	Date				
2L GWQS		42000	420	4200	210
GCL		0	0	0	0
UST900-MW04	7/25/2005	BQL	**2540.00**	2564.00	**1098.00**
UST900-MW04	10/19/2005	BQL	**5050.00**	2630.00	**1537.00**
UST900-MW04	1/11/2006	BQL	**1800.00**	1300.00	**480.00**
UST900-MW04	4/17/2006	BQL	**2200.00**	1600.00	**580.00**
UST900-MW04	7/18/2006	BQL	**1300.00**	1000.00	**460.00**
UST900-MW04	10/16/2006	BQL	**1400.00**	860.00	**230.00**
UST900-MW04	1/15/2007	BQL	**700.00**	560.00	160.00
UST900-MW04	3/13/2007	BQL	**870.00**	510.00	130.00

Notes:
1. 2L GWQS = North Carolina groundwater quality standard 15A NCAC 2L .0202
2. GCL = Gross Contamination Levels for ground water as defined in "Guidelines for Assessment and Corrective Action" North Carolina Underground Storage Tank Section, effective July 1, 2001
3. All units are in ug/L (Micrograms per Liter)
4. BQL = Below Quantitaion Limits
5. A zero in the 2L GWQS row indicates the 2L Standard is equal to the laboratory detection limit
6. A zero in the GCL row indicates a GCL has not been established
7. Shaded concentrations indicate exceedance of the 2L GWQS
8. Only compounds which were detected are shown on table. All other compounds were BQL

TABLE 15.6

SITE 900

GROUNDWATER LABORATORY ANALYTICAL RESULTS - JULY 2005 TO DECEMBER 2007

MADEP VPH/EPH

Contaminant of Concern →		C19-C36 Aliphatics	C5-C8 Aliphatics	C9-C18 Aliphatics	C9-C22 Aromatics
Well ID	Date				
2L GWQS		42000	420	4200	210
GCL		0	0	0	0
UST900-MW05	7/25/2005	BQL	BQL	BQL	BQL
UST900-MW05	10/19/2005	263.00	BQL	194.00	148.00
UST900-MW05	1/10/2006	BQL	BQL	BQL	BQL
UST900-MW05	4/17/2006	BQL	BQL	BQL	BQL
UST900-MW05	7/19/2006	BQL	BQL	BQL	BQL
UST900-MW05	10/16/2006	BQL	BQL	BQL	BQL
UST900-MW05	1/15/2007	BQL	BQL	BQL	BQL
UST900-MW05	3/13/2007	BQL	BQL	BQL	BQL

Notes:
1. 2L GWQS = North Carolina groundwater quality standard 15A NCAC 2L .0202
2. GCL = Gross Contamination Levels for ground water as defined in "Guidelines for Assessment and Corrective Action" North Carolina Underground Storage Tank Section, effective July 1, 2001
3. All units are in ug/L (Micrograms per Liter)
4. BQL = Below Quantitaion Limits
5. A zero in the 2L GWQS row indicates the 2L Standard is equal to the laboratory detection limit
6. A zero in the GCL row indicates a GCL has not been established
7. Shaded concentrations indicate exceedance of the 2L GWQS
8. Only compounds which were detected are shown on table. All other compounds were BQL

TABLE 15.6

SITE 900

GROUNDWATER LABORATORY ANALYTICAL RESULTS - JULY 2005 TO DECEMBER 2007

MADEP VPH/EPH

Contaminant of Concern →		C19-C36 Aliphatics	C5-C8 Aliphatics	C9-C18 Aliphatics	C9-C22 Aromatics
Well ID	Date				
2L GWQS		42000	420	4200	210
GCL		0	0	0	0
UST900-MW06	7/26/2005	BQL	BQL	BQL	164.00
UST900-MW06	10/20/2005	BQL	BQL	BQL	BQL
UST900-MW06	1/11/2006	BQL	BQL	BQL	BQL
UST900-MW06	4/17/2006	BQL	BQL	BQL	BQL
UST900-MW06	7/18/2006	BQL	BQL	BQL	BQL
UST900-MW06	10/17/2006	BQL	BQL	BQL	BQL
UST900-MW06	1/16/2007	BQL	BQL	BQL	BQL
UST900-MW06	3/13/2007	BQL	BQL	BQL	BQL
UST900-MW07	3/13/2007	BQL	BQL	BQL	BQL

Notes:
1. 2L GWQS = North Carolina groundwater quality standard 15A NCAC 2L .0202
2. GCL = Gross Contamination Levels for ground water as defined in "Guidelines for Assessment and Corrective Action" North Carolina Underground Storage Tank Section, effective July 1, 2001
3. All units are in ug/L (Micrograms per Liter)
4. BQL = Below Quantitaion Limits
5. A zero in the 2L GWQS row indicates the 2L Standard is equal to the laboratory detection limit
6. A zero in the GCL row indicates a GCL has not been established
7. Shaded concentrations indicate exceedance of the 2L GWQS
8. Only compounds which were detected are shown on table. All other compounds were BQL

TABLE 15.6

SITE 900

GROUNDWATER LABORATORY ANALYTICAL RESULTS - JULY 2005 TO DECEMBER 2007

MADEP VPH/EPH

Contaminant of Concern →		C19-C36 Aliphatics	C5-C8 Aliphatics	C9-C18 Aliphatics	C9-C22 Aromatics
Well ID	Date				
2L GWQS		42000	420	4200	210
GCL		0	0	0	0
UST900-MW08	7/25/2005	BQL	BQL	BQL	191.50
UST900-MW08	10/19/2005	BQL	BQL	BQL	31.70
UST900-MW08	1/10/2006	BQL	BQL	BQL	BQL
UST900-MW08	4/17/2006	BQL	BQL	BQL	BQL
UST900-MW08	7/19/2006	BQL	BQL	BQL	BQL
UST900-MW08	10/17/2006	BQL	BQL	BQL	BQL
UST900-MW08	1/15/2007	BQL	BQL	BQL	BQL
UST900-MW08	3/13/2007	BQL	BQL	BQL	BQL

Notes:
1. 2L GWQS = North Carolina groundwater quality standard 15A NCAC 2L .0202
2. GCL = Gross Contamination Levels for ground water as defined in "Guidelines for Assessment and Corrective Action" North Carolina Underground Storage Tank Section, effective July 1, 2001
3. All units are in ug/L (Micrograms per Liter)
4. BQL = Below Quantitaion Limits
5. A zero in the 2L GWQS row indicates the 2L Standard is equal to the laboratory detection limit
6. A zero in the GCL row indicates a GCL has not been established
7. Shaded concentrations indicate exceedance of the 2L GWQS
8. Only compounds which were detected are shown on table. All other compounds were BQL

TABLE 15.6

SITE 900

GROUNDWATER LABORATORY ANALYTICAL RESULTS - JULY 2005 TO DECEMBER 2007

MADEP VPH/EPH

Contaminant of Concern →		C19-C36 Aliphatics	C5-C8 Aliphatics	C9-C18 Aliphatics	C9-C22 Aromatics
Well ID	Date				
2L GWQS		42000	420	4200	210
GCL		0	0	0	0
UST900-MW09	7/25/2005	BQL	190.00	BQL	22.00
UST900-MW09	10/19/2005	272.00	**480.00**	215.00	22.00
UST900-MW09	1/10/2006	BQL	**470.00**	130.00	BQL
UST900-MW09	4/17/2006	BQL	340.00	BQL	BQL
UST900-MW09	7/18/2006	BQL	**510.00**	BQL	BQL
UST900-MW09	10/17/2006	BQL	320.00	BQL	BQL
UST900-MW09	1/15/2007	BQL	**450.00**	120.00	BQL
UST900-MW09	3/13/2007	BQL	**450.00**	BQL	100.00

Notes:
1. 2L GWQS = North Carolina groundwater quality standard 15A NCAC 2L .0202
2. GCL = Gross Contamination Levels for ground water as defined in "Guidelines for Assessment and Corrective Action" North Carolina Underground Storage Tank Section, effective July 1, 2001
3. All units are in ug/L (Micrograms per Liter)
4. BQL = Below Quantitaion Limits
5. A zero in the 2L GWQS row indicates the 2L Standard is equal to the laboratory detection limit
6. A zero in the GCL row indicates a GCL has not been established
7. Shaded concentrations indicate exceedance of the 2L GWQS
8. Only compounds which were detected are shown on table. All other compounds were BQL

TABLE 15.6

SITE 900

GROUNDWATER LABORATORY ANALYTICAL RESULTS - JULY 2005 TO DECEMBER 2007

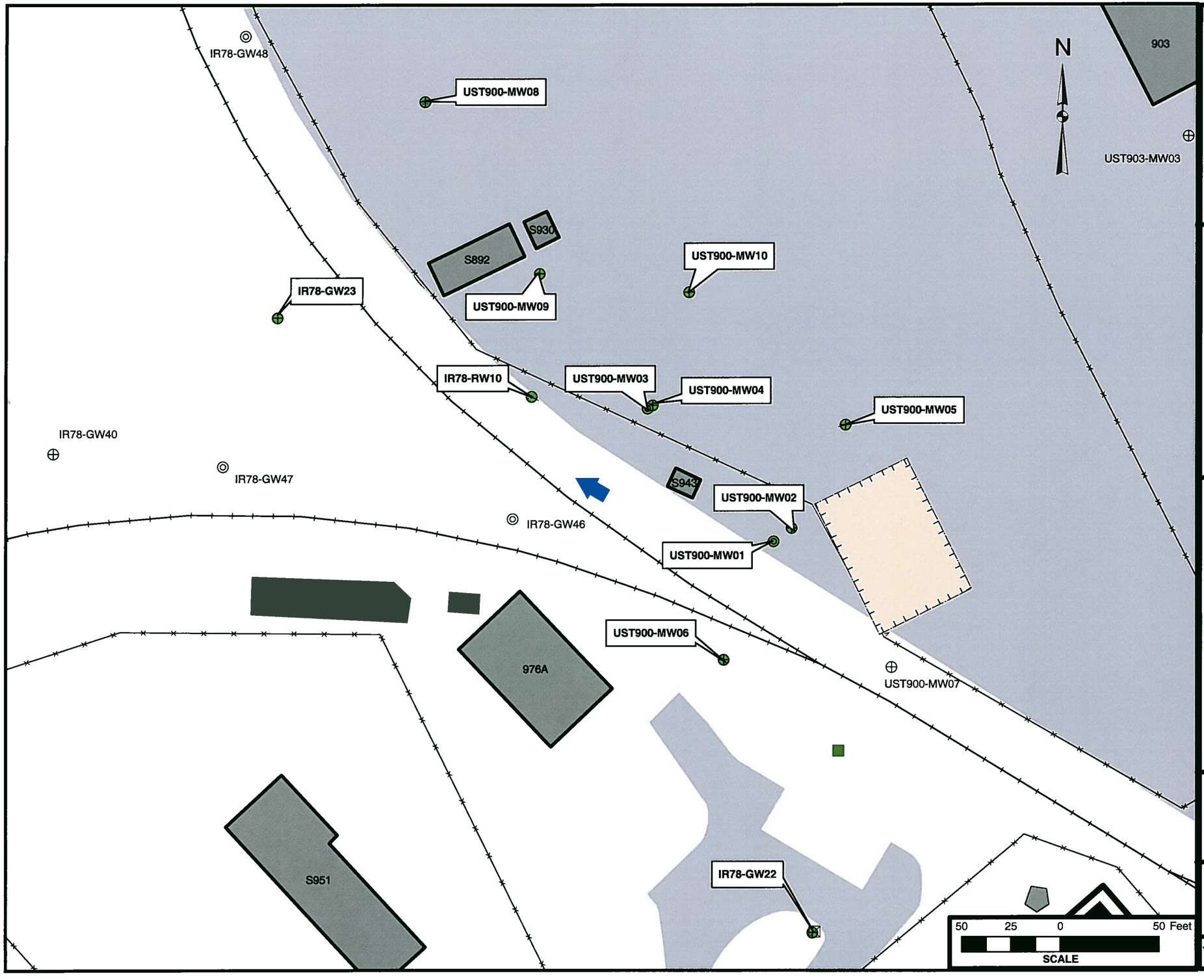
MADEP VPH/EPH

Contaminant of Concern →		C19-C36 Aliphatics	C5-C8 Aliphatics	C9-C18 Aliphatics	C9-C22 Aromatics
Well ID	Date				
2L GWQS		42000	420	4200	210
GCL		0	0	0	0
UST900-MW10	7/25/2005	BQL	BQL	BQL	BQL
UST900-MW10	10/19/2005	196.00	BQL	BQL	BQL
UST900-MW10	1/10/2006	BQL	BQL	100.00	BQL
UST900-MW10	4/17/2006	BQL	BQL	BQL	BQL
UST900-MW10	7/19/2006	BQL	BQL	BQL	BQL
UST900-MW10	10/16/2006	BQL	BQL	BQL	BQL
UST900-MW10	1/15/2007	BQL	BQL	BQL	BQL
UST900-MW10	3/13/2007	BQL	BQL	BQL	BQL

Notes:
1. 2L GWQS = North Carolina groundwater quality standard 15A NCAC 2L .0202
2. GCL = Gross Contamination Levels for ground water as defined in "Guidelines for Assessment and Corrective Action" North Carolina Underground Storage Tank Section, effective July 1, 2001
3. All units are in ug/L (Micrograms per Liter)
4. BQL = Below Quantitaion Limits
5. A zero in the 2L GWQS row indicates the 2L Standard is equal to the laboratory detection limit
6. A zero in the GCL row indicates a GCL has not been established
7. Shaded concentrations indicate exceedance of the 2L GWQS
8. Only compounds which were detected are shown on table. All other compounds were BQL

MCB CAMP LEJEUNE
UST MANAGEMENT PROGRAM
CALENDAR YEAR 2007

NAVFAC
Naval Facilities Engineering Command



LEGEND

Monitoring Wells
- Type I
- Type II
- Type III
- Pumping Well
- Unknown Well Type
- Water Supply Wells
- Above Ground Storage Tank
- Underground Storage Tank
- Railroad Tracks

Walls and Fences
- FENCE
- GATE
- WALL

Free Product
- Free Product Detected
- No Measurable Thickness
- Free Product Plume
- Buildings and Structures
- Demolished Structures
- Oil/Water Separators
- Slabs
- Roads
- Driveways
- Parking Lots
- Surface Water Bodies
- Creeks and Streams
- Historical Groundwater Flow Direction

Vegetation Cover
- Forestland
- Scrubland
- Wetland

Airfield Pavement
- HELIPAD
- RAMP
- RUNWAY
- SHLDR_OVERRUN
- TAXIWAY

NOTES

1. Free product was not detected at this site in any of the wells gauged during this monitoring event.

CATLIN
Engineers and Scientists

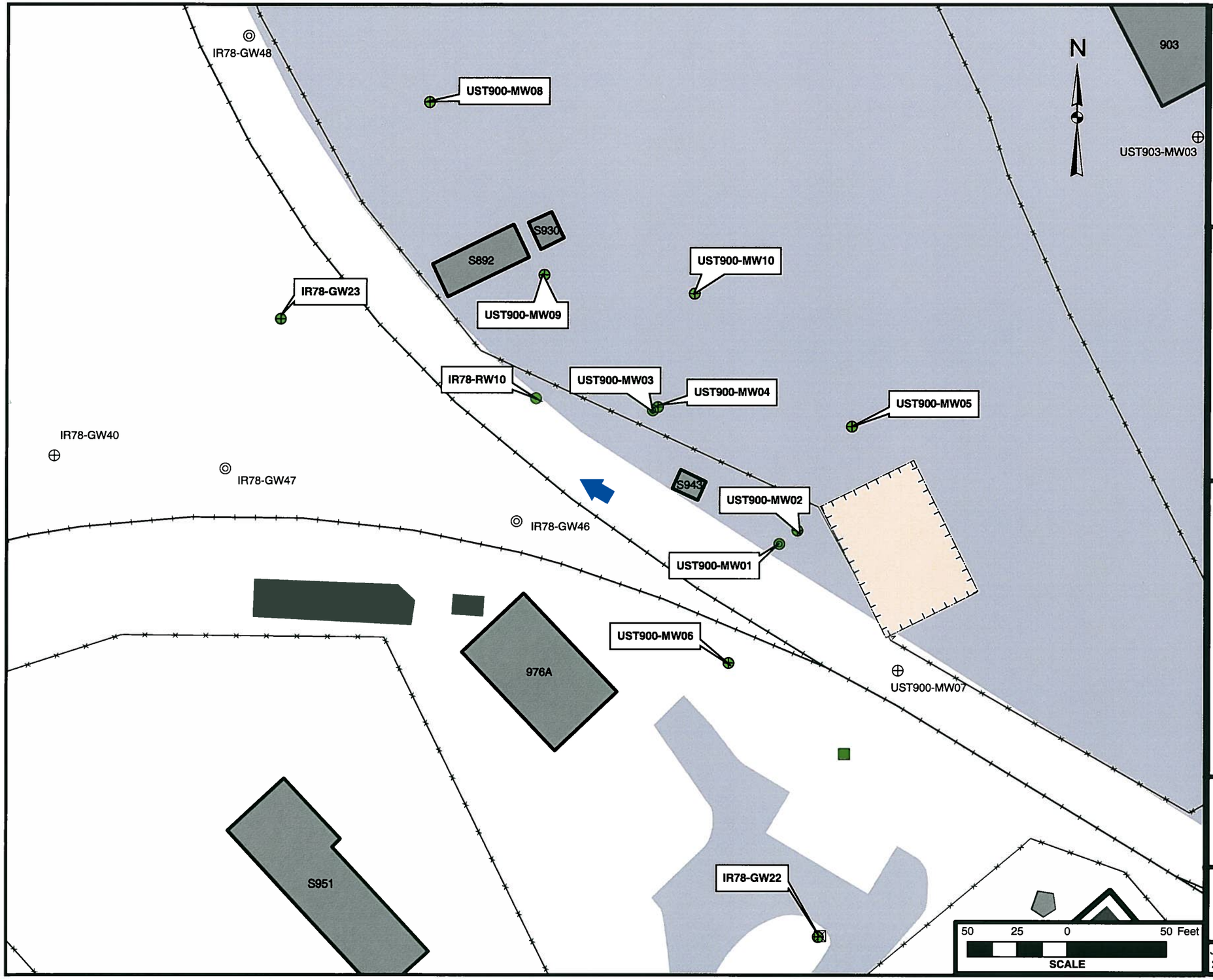
SITE 900
FREE PRODUCT PLUME MAP
THIRD QUARTER 2006

FIGURE
15.1A

Job No.:	Date:	Scale:	Drawn By:	Checked By:
207-002	DEC 2007	AS SHOWN	SAC	MEM

MCB CAMP LEJEUNE
UST MANAGEMENT PROGRAM
CALENDAR YEAR 2007

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Naval Facilities Engineering Command



LEGEND

Monitoring Wells
- Type I
- Type II
- Type III
- Pumping Well
- Unknown Well Type
- Water Supply Wells
- Above Ground Storage Tank
- Underground Storage Tank
- Railroad Tracks

Walls and Fences
- FENCE
- GATE
- WALL

Free Product
- Free Product Detected
- No Measurable Thickness
- Free Product Plume
- Buildings and Structures
- Demolished Structures
- Oil/Water Separators
- Slabs
- Roads
- Driveways
- Parking Lots
- Surface Water Bodies
- Creeks and Streams
- Historical Groundwater Flow Direction

Vegetation Cover
- Forestland
- Scrubland
- Wetland

Airfield Pavement
- HELIPAD
- RAMP
- RUNWAY
- SHLDR_OVERRUN
- TAXIWAY

NOTES

1. Free product was not detected at this site in any of the wells gauged during this monitoring event.

CATLIN
Engineers and Scientists

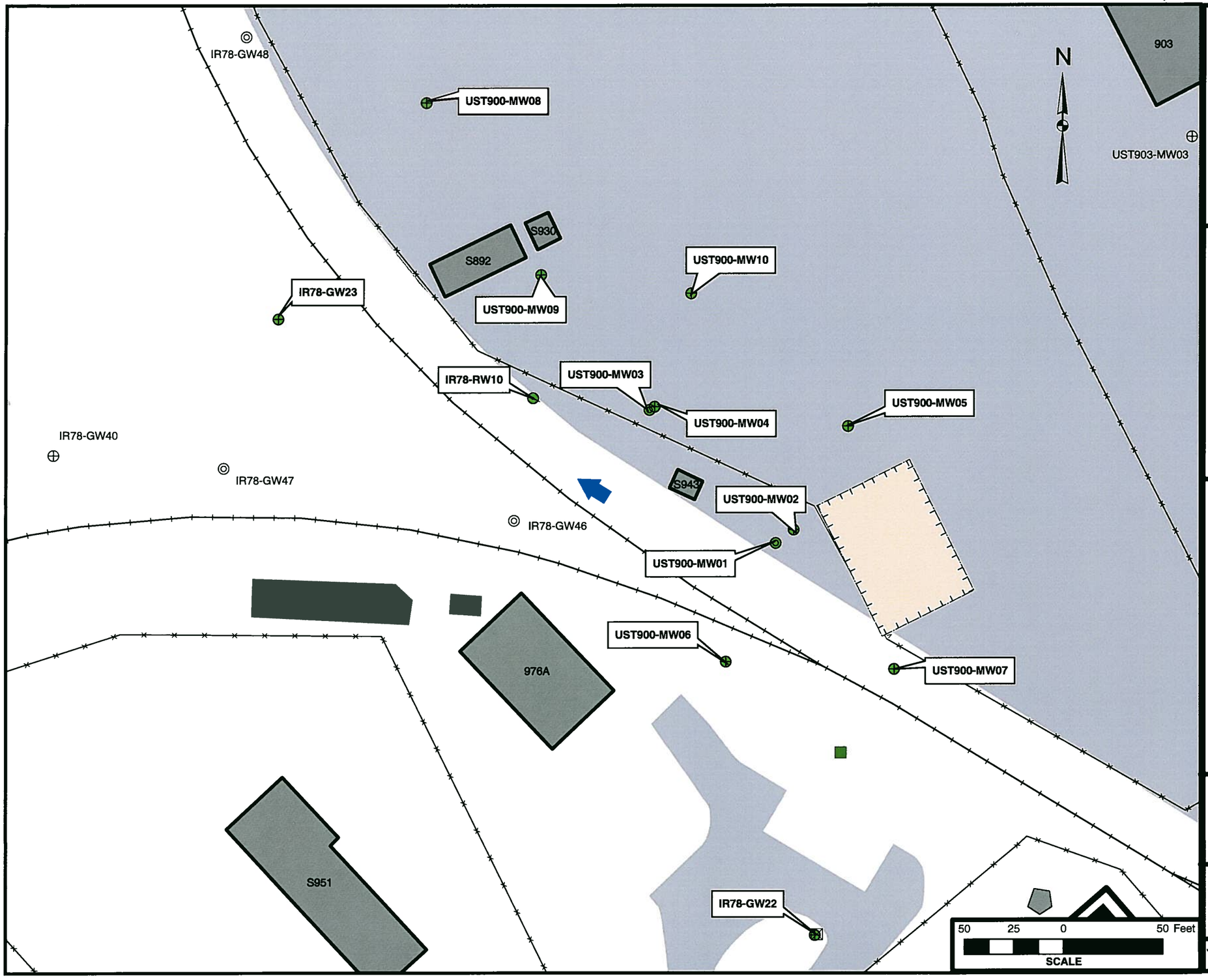
SITE 900
FREE PRODUCT PLUME MAP
FOURTH QUARTER 2006

FIGURE **15.1B**

Job No.:	Date:	Scale:	Drawn By:	Checked By:
207-002	DEC 2007	AS SHOWN	SAC	MEM

MCB CAMP LEJEUNE
UST MANAGEMENT PROGRAM
CALENDAR YEAR 2007

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Naval Facilities Engineering Command



LEGEND

Monitoring Wells
- Type I
- Type II
- Type III
- Pumping Well
- Unknown Well Type
- Water Supply Wells
- Above Ground Storage Tank
- Underground Storage Tank
- Railroad Tracks

Walls and Fences
- FENCE
- GATE
- WALL

Free Product
- Free Product Detected
- No Measurable Thickness
- Free Product Plume
- Buildings and Structures
- Demolished Structures
- Oil/Water Separators
- Slabs
- Roads
- Driveways
- Parking Lots
- Surface Water Bodies
- Creeks and Streams
- Historical Groundwater Flow Direction

Vegetation Cover
- Forestland
- Scrubland
- Wetland

Airfield Pavement
- HELIPAD
- RAMP
- RUNWAY
- SHLDR_OVERRUN
- TAXIWAY

NOTES

1. Free product was not detected at this site in any of the wells gauged during this monitoring event.

CATLIN
Engineers and Scientists

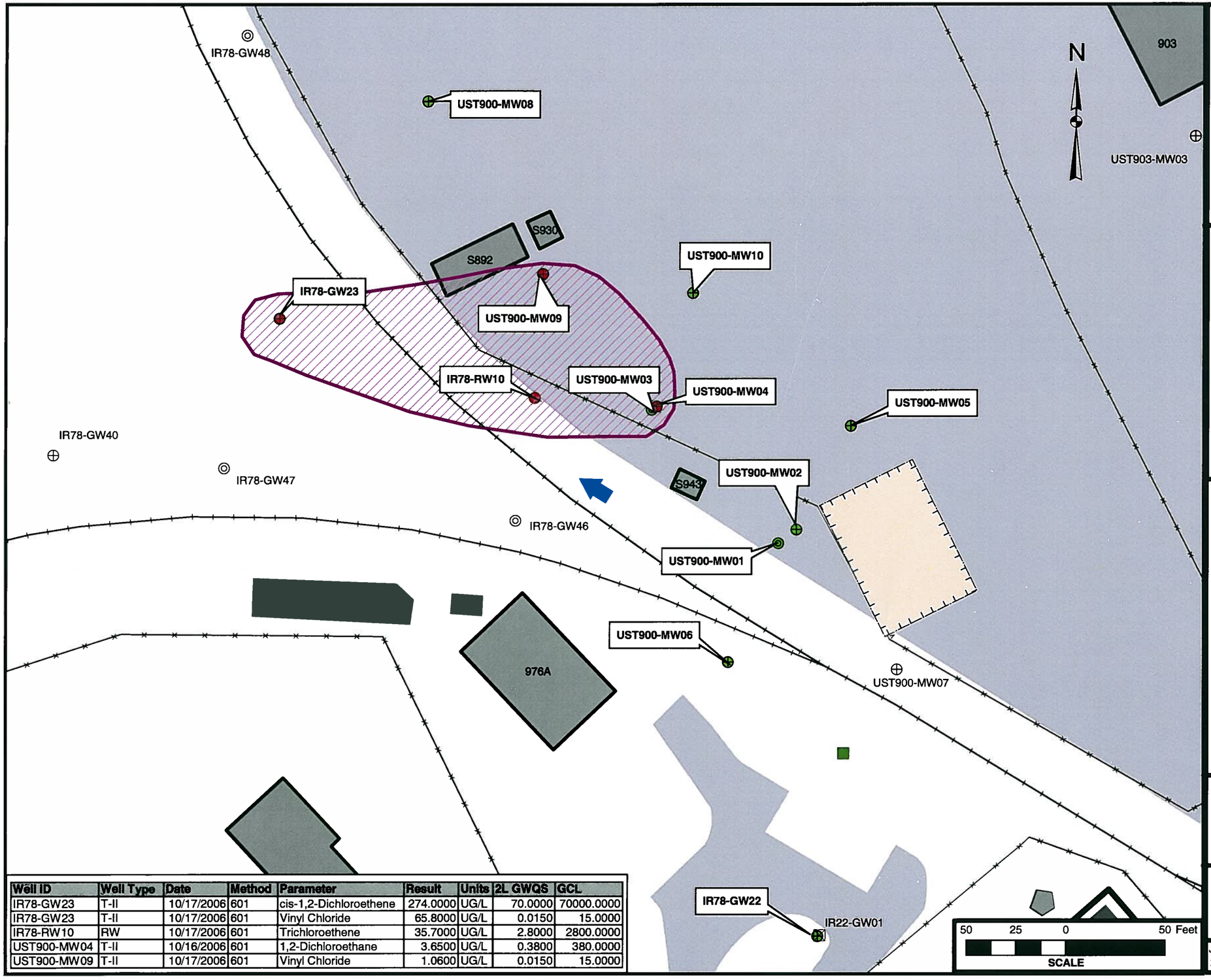
SITE 900
FREE PRODUCT PLUME MAP
FIRST QUARTER 2007

FIGURE
15.1C

Job No.:	Date:	Scale:	Drawn By:	Checked By:
207-002	DEC 2007	AS SHOWN	SAC	MEM

MCB CAMP LEJEUNE
UST MANAGEMENT PROGRAM
CALENDAR YEAR 2007

NAVFAC
Naval Facilities Engineering Command



LEGEND

Monitoring Wells
- Type I
- Type II
- Type III
- Pumping Well
- Unknown Well Type
- Water Supply Wells
- Above Ground Storage Tank
- Underground Storage Tank
- Railroad Tracks

Walls and Fences
- FENCE
- GATE
- WALL

Analytical Results
- Free Product Detected
- 2L Non-Compliant
- 2L Compliant
- EPA 601 Plume

Buildings and Structures
- Demolished Structures
- Oil/Water Separators
- Slabs
- Roads
- Driveways
- Parking Lots
- Surface Water Bodies
- Creeks and Streams
- Historical Groundwater Flow Direction

Vegetation Cover
- Forestland
- Scrubland
- Wetland

Airfield Pavement
- HELIPAD
- RAMP
- RUNWAY
- SHLDR_OVERRUN
- TAXIWAY

NOTES

1. 2L Standard refers to North Carolina Groundwater Quality Standard 15A NCAC 2L.0202.
2. GCL refers to Gross Contaminant Level as defined in "Guidelines for the Assessment and Corrective Action" North Carolina Underground Storage Tank Section, effective July 1, 2001.
3. A 2L Standard of "0.00" implies a standard has not yet been established. According to NCAC T15:02L, any compound found above laboratory detection limits is considered noncompliant unless otherwise specified by the NCDENR.

Well ID	Well Type	Date	Method	Parameter	Result	Units	2L GWQS	GCL
IR78-GW23	T-II	10/17/2006	601	cis-1,2-Dichloroethene	274.0000	UG/L	70.0000	70000.0000
IR78-GW23	T-II	10/17/2006	601	Vinyl Chloride	65.8000	UG/L	0.0150	15.0000
IR78-RW10	RW	10/17/2006	601	Trichloroethene	35.7000	UG/L	2.8000	2800.0000
UST900-MW04	T-II	10/16/2006	601	1,2-Dichloroethane	3.6500	UG/L	0.3800	380.0000
UST900-MW09	T-II	10/17/2006	601	Vinyl Chloride	1.0600	UG/L	0.0150	15.0000

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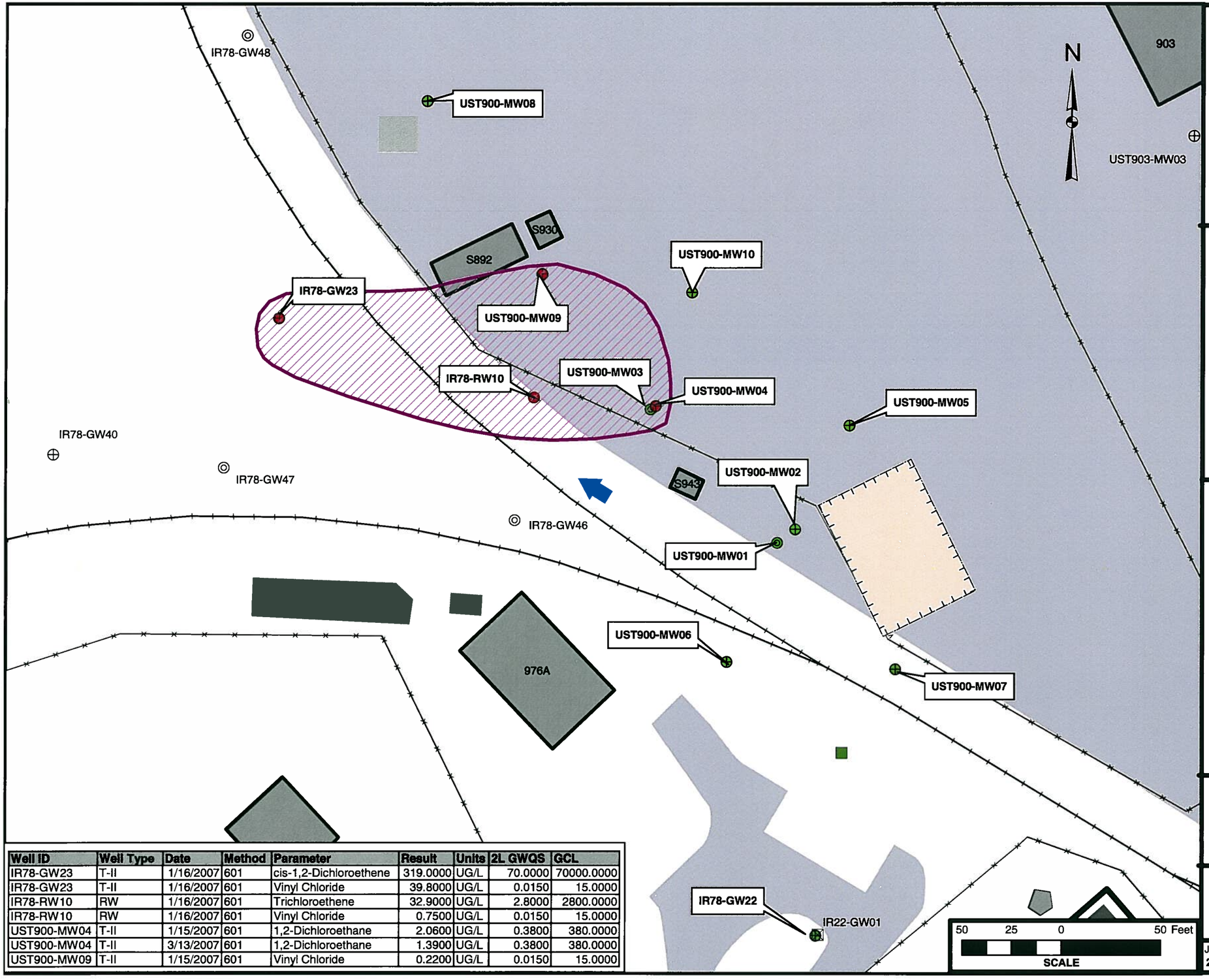
SITE 900
EPA METHOD 601 COLORIMETRY AND PLUME IN EXCESS OF 2L
FOURTH QUARTER 2006

FIGURE **15.2A**

Job No.:	Date:	Scale:	Drawn By:	Checked By:
207-002	DEC 2007	AS SHOWN	SAC	MEM

MCB CAMP LEJEUNE
UST MANAGEMENT PROGRAM
CALENDAR YEAR 2007

NAVFAC
Naval Facilities Engineering Command



LEGEND

Monitoring Wells
- Type I
- Type II
- Type III
- Pumping Well
- Unknown Well Type
- Water Supply Wells
- Above Ground Storage Tank
- Underground Storage Tank
- Railroad Tracks

Walls and Fences
- FENCE
- GATE
- WALL

Analytical Results
- Free Product Detected
- 2L Non-Compliant
- 2L Compliant
- EPA 601 Plume

Buildings and Structures
- Demolished Structures
- Oil/Water Separators
- Slabs
- Roads
- Driveways
- Parking Lots
- Surface Water Bodies
- Creeks and Streams
- Historical Groundwater Flow Direction

Vegetation Cover
- Forestland
- Scrubland
- Wetland

Airfield Pavement
- HELIPAD
- RAMP
- RUNWAY
- SHLDR_OVERRUN
- TAXIWAY

NOTES

1. 2L Standard refers to North Carolina Groundwater Quality Standard 15A NCAC 2L.0202.
2. GCL refers to Gross Contaminant Level as defined in "Guidelines for the Assessment and Corrective Action" North Carolina Underground Storage Tank Section, effective July 1, 2001.
3. A 2L Standard of "0.00" implies a standard has not yet been established. According to NCAC T15:02L, any compound found above laboratory detection limits is considered noncompliant unless otherwise specified by the NCDENR.

Well ID	Well Type	Date	Method	Parameter	Result	Units	2L GWQS	GCL
IR78-GW23	T-II	1/16/2007	601	cis-1,2-Dichloroethene	319.0000	UG/L	70.0000	70000.0000
IR78-GW23	T-II	1/16/2007	601	Vinyl Chloride	39.8000	UG/L	0.0150	15.0000
IR78-RW10	RW	1/16/2007	601	Trichloroethene	32.9000	UG/L	2.8000	2800.0000
IR78-RW10	RW	1/16/2007	601	Vinyl Chloride	0.7500	UG/L	0.0150	15.0000
UST900-MW04	T-II	1/15/2007	601	1,2-Dichloroethane	2.0600	UG/L	0.3800	380.0000
UST900-MW04	T-II	3/13/2007	601	1,2-Dichloroethane	1.3900	UG/L	0.3800	380.0000
UST900-MW09	T-II	1/15/2007	601	Vinyl Chloride	0.2200	UG/L	0.0150	15.0000

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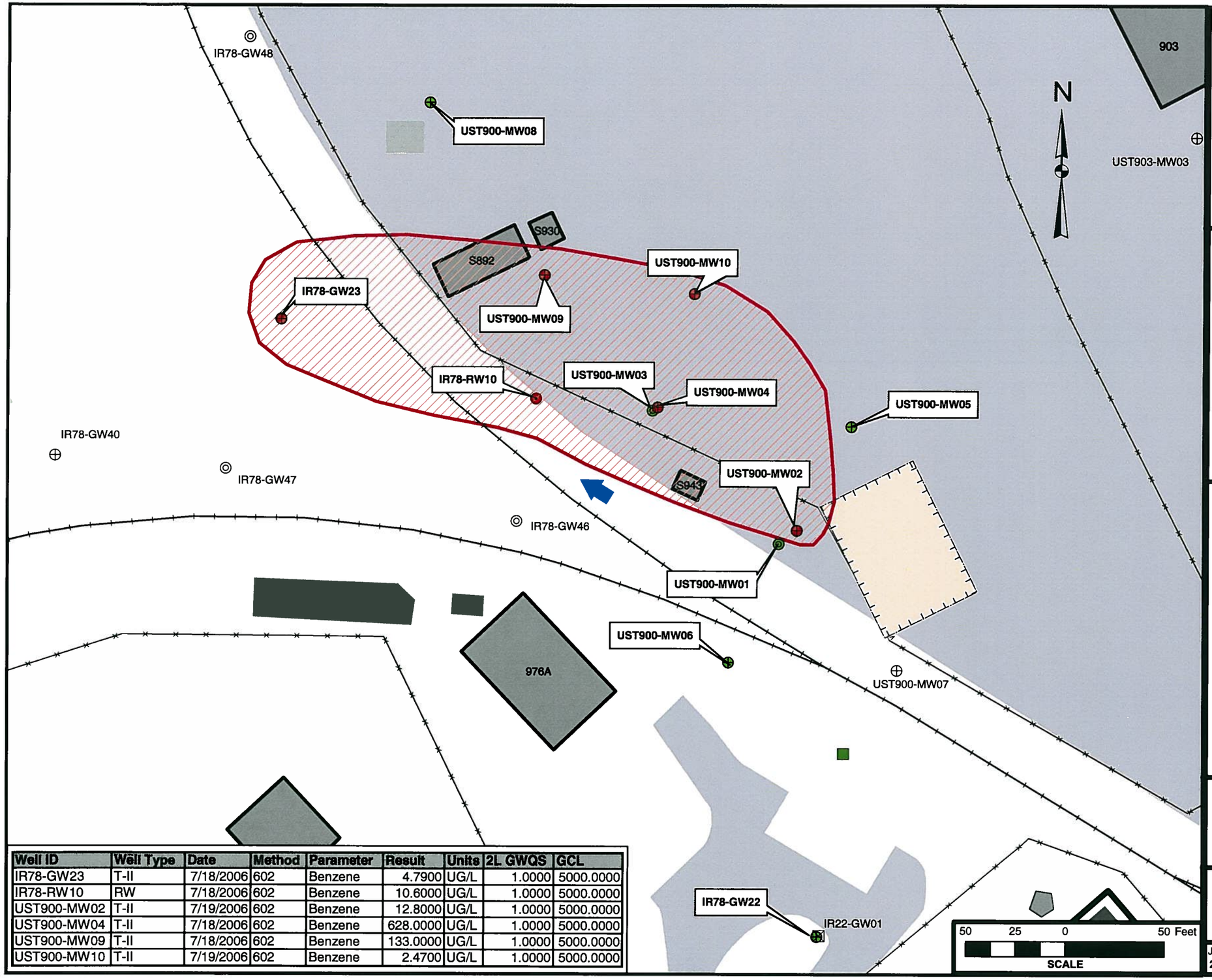
SITE 900
EPA METHOD 601 COLORIMETRY AND PLUME IN EXCESS OF 2L FIRST QUARTER 2007

FIGURE **15.2B**

Job No.:	Date:	Scale:	Drawn By:	Checked By:
207-002	JAN 2008	AS SHOWN	SAC	MEM

MCB CAMP LEJEUNE
UST MANAGEMENT PROGRAM
CALENDAR YEAR 2007

NAVFAC
Naval Facilities Engineering Command



LEGEND

Monitoring Wells
- Type I
- Type II
- Type III
- Pumping Well
- Unknown Well Type
- Water Supply Wells
- Above Ground Storage Tank
- Underground Storage Tank
- Railroad Tracks

Walls and Fences
- FENCE
- GATE
- WALL

Analytical Results
- Free Product Detected
- 2L Non-Compliant
- 2L Compliant
- EPA 602 Plume
- Buildings and Structures
- Demolished Structures
- Oil/Water Separators
- Slabs
- Roads
- Driveways
- Parking Lots
- Surface Water Bodies
- Creeks and Streams
- Historical Groundwater Flow Direction

Vegetation Cover
- Forestland
- Scrubland
- Wetland

Airfield Pavement
- HELIPAD
- RAMP
- RUNWAY
- SHLDR_OVERRUN
- TAXIWAY

NOTES

1. 2L Standard refers to North Carolina Groundwater Quality Standard 15A NCAC 2L.0202.
2. GCL refers to Gross Contaminant Level as defined in Table 7 of "Groundwater Section Guidelines for the Investigation and Remediation of Soil and Ground Water", Volume II, dated January 2, 1998.
3. A 2L Standard of "0.00" implies a standard has not yet been established. According to NCAC T15:02L, any compound found above laboratory detection limits is considered noncompliant unless otherwise specified by the NCDENR.

Well ID	Well Type	Date	Method	Parameter	Result	Units	2L GWQS	GCL
IR78-GW23	T-II	7/18/2006	602	Benzene	4.7900	UG/L	1.0000	5000.0000
IR78-RW10	RW	7/18/2006	602	Benzene	10.6000	UG/L	1.0000	5000.0000
UST900-MW02	T-II	7/19/2006	602	Benzene	12.8000	UG/L	1.0000	5000.0000
UST900-MW04	T-II	7/18/2006	602	Benzene	628.0000	UG/L	1.0000	5000.0000
UST900-MW09	T-II	7/18/2006	602	Benzene	133.0000	UG/L	1.0000	5000.0000
UST900-MW10	T-II	7/19/2006	602	Benzene	2.4700	UG/L	1.0000	5000.0000

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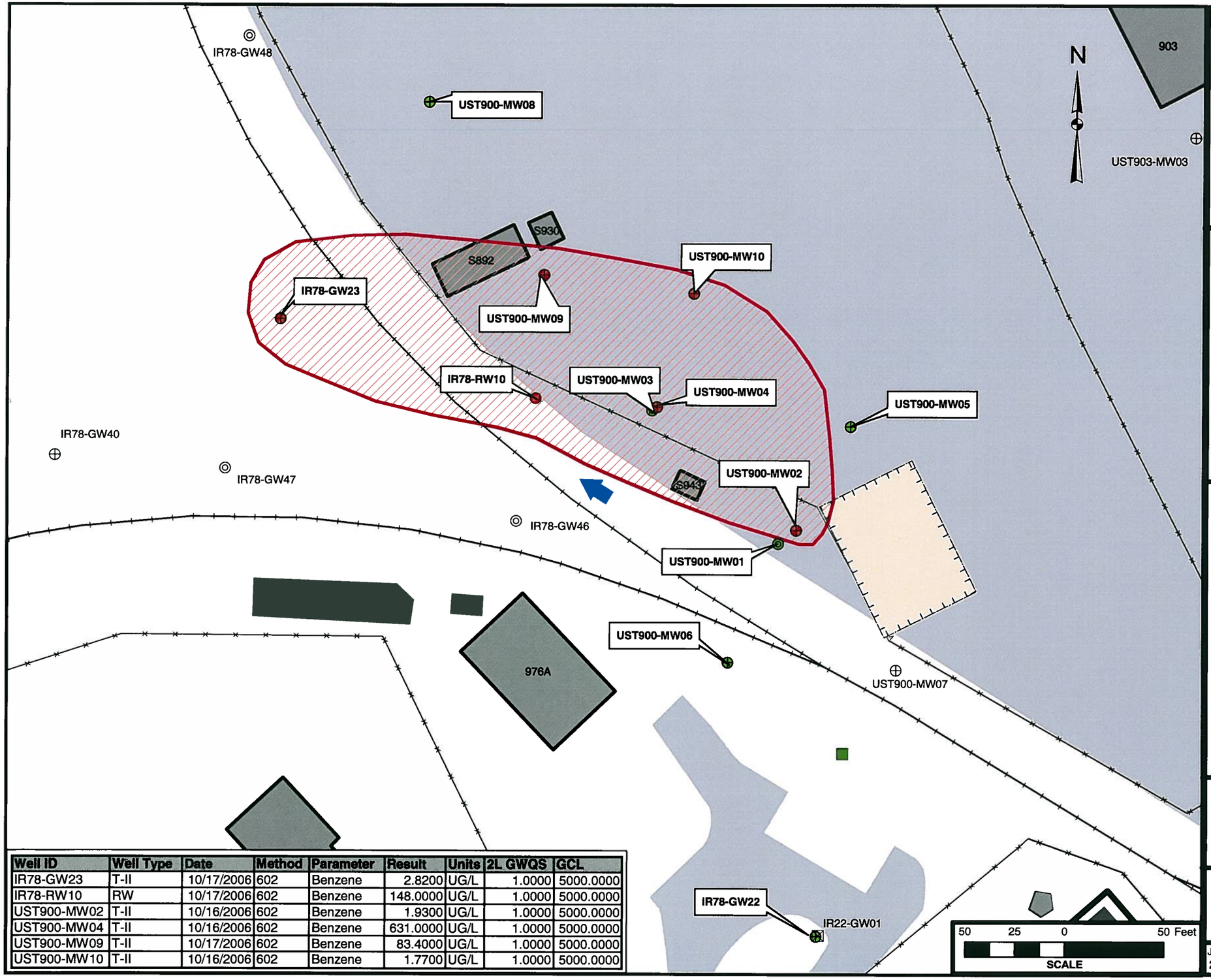
SITE 900
EPA METHOD 602 COLORIMETRY AND PLUME IN EXCESS OF 2L
THIRD QUARTER 2006

FIGURE **15.3A**

Job No.:	Date:	Scale:	Drawn By:	Checked By:
207-002	DEC 2007	AS SHOWN	SAC	MEM

MCB CAMP LEJEUNE
UST MANAGEMENT PROGRAM
CALENDAR YEAR 2007

NAVFAC
Naval Facilities Engineering Command



Well ID	Well Type	Date	Method	Parameter	Result	Units	2L GWQS	GCL
IR78-GW23	T-II	10/17/2006	602	Benzene	2.8200	UG/L	1.0000	5000.0000
IR78-RW10	RW	10/17/2006	602	Benzene	148.0000	UG/L	1.0000	5000.0000
UST900-MW02	T-II	10/16/2006	602	Benzene	1.9300	UG/L	1.0000	5000.0000
UST900-MW04	T-II	10/16/2006	602	Benzene	631.0000	UG/L	1.0000	5000.0000
UST900-MW09	T-II	10/17/2006	602	Benzene	83.4000	UG/L	1.0000	5000.0000
UST900-MW10	T-II	10/16/2006	602	Benzene	1.7700	UG/L	1.0000	5000.0000

LEGEND

Monitoring Wells
- Type I
- Type II
- Type III
- Pumping Well
- Unknown Well Type
- Water Supply Wells
- Above Ground Storage Tank
- Underground Storage Tank
- Railroad Tracks

Walls and Fences
- FENCE
- GATE
- WALL

Analytical Results
- Free Product Detected
- 2L Non-Compliant
- 2L Compliant
- EPA 602 Plume

- Buildings and Structures
- Demolished Structures
- Oil/Water Separators
- Slabs
- Roads
- Driveways
- Parking Lots
- Surface Water Bodies
- Creeks and Streams
- Historical Groundwater Flow Direction

Vegetation Cover
- Forestland
- Scrubland
- Wetland

Airfield Pavement
- HELIPAD
- RAMP
- RUNWAY
- SHLDR_OVERRUN
- TAXIWAY

NOTES

1. 2L Standard refers to North Carolina Groundwater Quality Standard 15A NCAC 2L.0202.
2. GCL refers to Gross Contaminant Level as defined in Table 7 of "Groundwater Section Guidelines for the Investigation and Remediation of Soil and Ground Water", Volume II, dated January 2, 1998.
3. A 2L Standard of "0.00" implies a standard has not yet been established. According to NCAC T15:02L, any compound found above laboratory detection limits is considered noncompliant unless otherwise specified by the NCDENR.

CATLIN
Engineers and Scientists

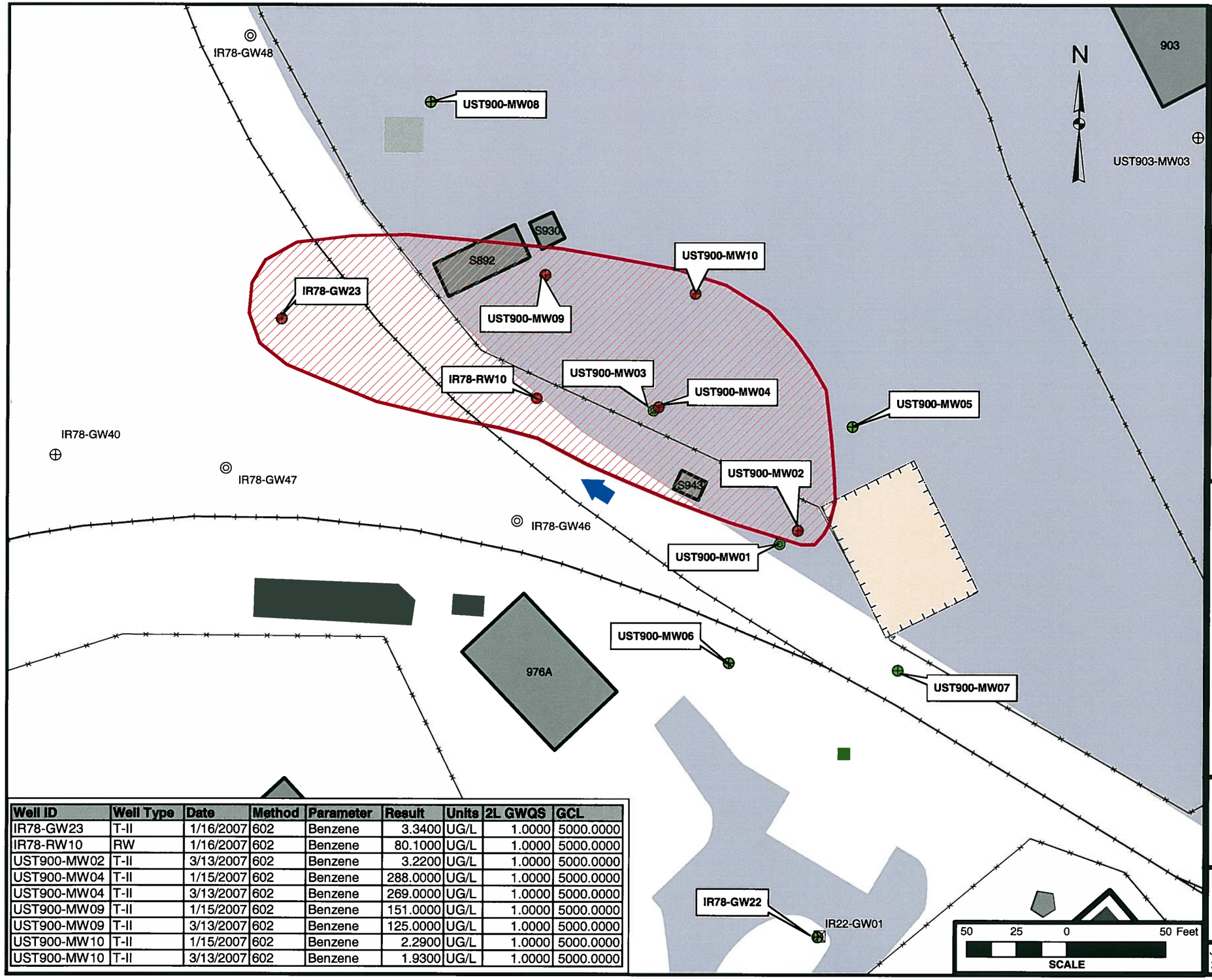
SITE 900
EPA METHOD 602 COLORIMETRY AND PLUME IN EXCESS OF 2L FOURTH QUARTER 2006

FIGURE **15.3B**

Job No.:	Date:	Scale:	Drawn By:	Checked By:
207-002	DEC 2007	AS SHOWN	SAC	MEM

MCB CAMP LEJEUNE
UST MANAGEMENT PROGRAM
CALENDAR YEAR 2007

NAVFAC
Naval Facilities Engineering Command



LEGEND

Monitoring Wells
- Type I
- Type II
- Type III
- Pumping Well
- Unknown Well Type
- Water Supply Wells
- Above Ground Storage Tank
- Underground Storage Tank
- Railroad Tracks

Walls and Fences
- FENCE
- GATE
- WALL

Analytical Results
- Free Product Detected
- 2L Non-Compliant
- 2L Compliant
- EPA 602 Plume

Buildings and Structures
- Demolished Structures
- Oil/Water Separators
- Slabs
- Roads
- Driveways
- Parking Lots
- Surface Water Bodies
- Creeks and Streams
- Historical Groundwater Flow Direction

Vegetation Cover
- Forestland
- Scrubland
- Wetland

Airfield Pavement
- HELIPAD
- RAMP
- RUNWAY
- SHLDR_OVERRUN
- TAXIWAY

NOTES

1. 2L Standard refers to North Carolina Groundwater Quality Standard 15A NCAC 2L.0202.
2. GCL refers to Gross Contaminant Level as defined in Table 7 of "Groundwater Section Guidelines for the Investigation and Remediation of Soil and Ground Water", Volume II, dated January 2, 1998.
3. A 2L Standard of "0.00" implies a standard has not yet been established. According to NCAC T15:02L, any compound found above laboratory detection limits is considered noncompliant unless otherwise specified by the NCDENR.

Well ID	Well Type	Date	Method	Parameter	Result	Units	2L GWQS	GCL
IR78-GW23	T-II	1/16/2007	602	Benzene	3.3400	UG/L	1.0000	5000.0000
IR78-RW10	RW	1/16/2007	602	Benzene	80.1000	UG/L	1.0000	5000.0000
UST900-MW02	T-II	3/13/2007	602	Benzene	3.2200	UG/L	1.0000	5000.0000
UST900-MW04	T-II	1/15/2007	602	Benzene	288.0000	UG/L	1.0000	5000.0000
UST900-MW04	T-II	3/13/2007	602	Benzene	269.0000	UG/L	1.0000	5000.0000
UST900-MW09	T-II	1/15/2007	602	Benzene	151.0000	UG/L	1.0000	5000.0000
UST900-MW09	T-II	3/13/2007	602	Benzene	125.0000	UG/L	1.0000	5000.0000
UST900-MW10	T-II	1/15/2007	602	Benzene	2.2900	UG/L	1.0000	5000.0000
UST900-MW10	T-II	3/13/2007	602	Benzene	1.9300	UG/L	1.0000	5000.0000

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Engineers and Scientists

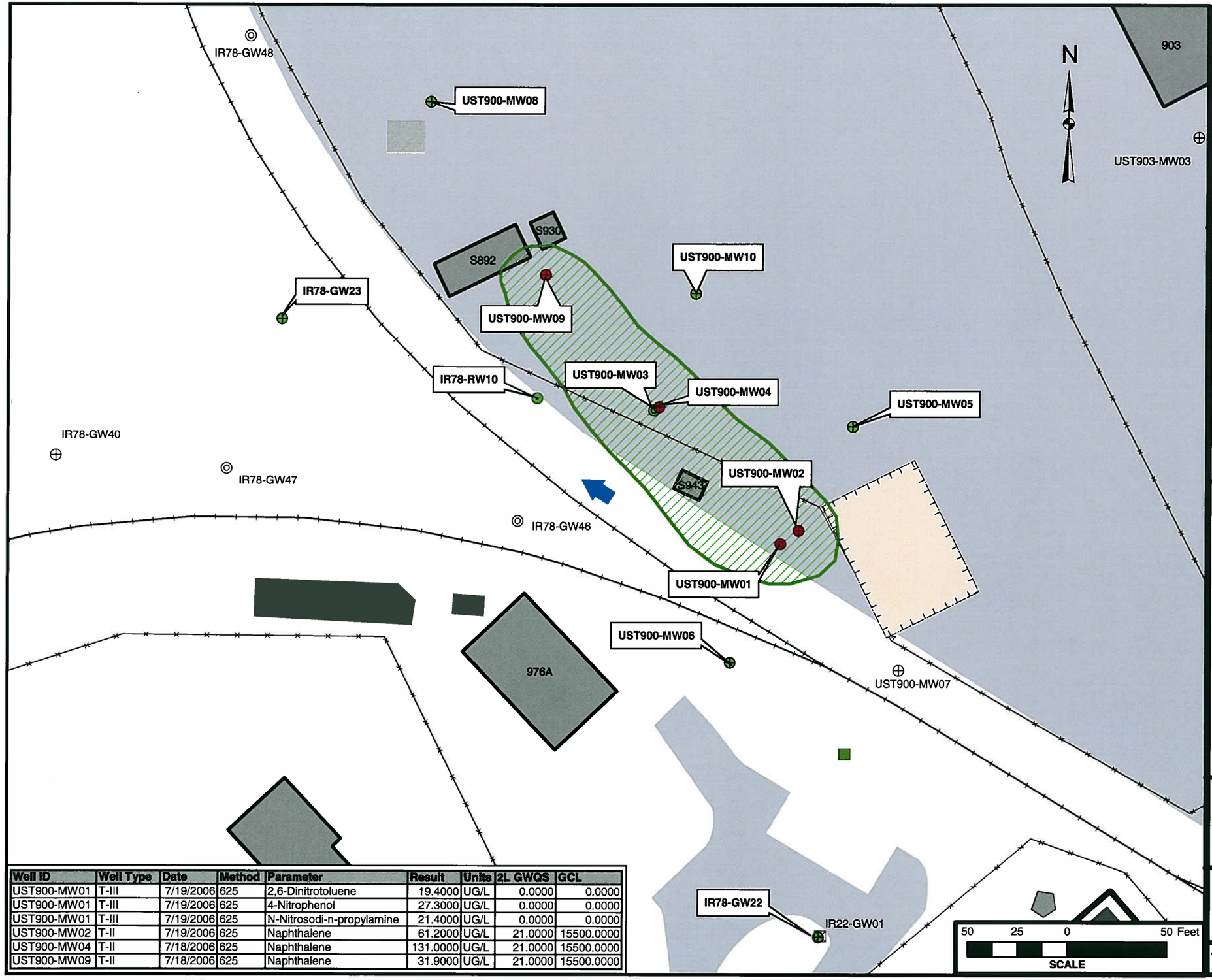
SITE 900
EPA METHOD 602 COLORIMETRY AND PLUME IN EXCESS OF 2L FIRST QUARTER 2007

FIGURE **15.3C**

Job No.:	Date:	Scale:	Drawn By:	Checked By:
207-002	DEC 2007	AS SHOWN	SAC	MEM

MCB CAMP LEJEUNE
UST MANAGEMENT PROGRAM
CALENDAR YEAR 2007

NAVFAC
Naval Facilities Engineering Command



LEGEND

Monitoring Wells
- Type I
- Type II
- Type III
- Pumping Well
- Unknown Well Type
- Water Supply Wells
- Above Ground Storage Tank
- Underground Storage Tank
- Railroad Tracks

Walls and Fences
- FENCE
- GATE
- WALL

Analytical Results
- Free Product Detected
- 2L Non-Compliant
- 2L Compliant
- EPA 625 Plume

Buildings and Structures
- Demolished Structures
- Oil/Water Separators
- Slabs
- Roads
- Driveways
- Parking Lots
- Surface Water Bodies
- Creeks and Streams
- Historical Groundwater Flow Direction

Vegetation Cover
- Forestland
- Scrubland
- Wetland

Airfield Pavement
- HELIPAD
- RAMP
- RUNWAY
- SHLDR_OVERRUN
- TAXIWAY

NOTES

1. 2L Standard refers to North Carolina Groundwater Quality Standard 15A NCAC 2L.0202.
2. GCL refers to Gross Contaminant Level as defined in Table 7 of "Groundwater Section Guidelines for the Investigation and Remediation of Soil and Ground Water", Volume II, dated January 2, 1998.
3. A 2L Standard of "0.00" implies a standard has not yet been established. According to NCAC T15:02L, any compound found above laboratory detection limits is considered noncompliant unless otherwise specified by the NCDENR.

Well ID	Well Type	Date	Method	Parameter	Result	Units	2L GWQS	GCL
UST900-MW01	T-III	7/19/2006	625	2,6-Dinitrotoluene	19.4000	UG/L	0.0000	0.0000
UST900-MW01	T-III	7/19/2006	625	4-Nitrophenol	27.3000	UG/L	0.0000	0.0000
UST900-MW01	T-III	7/19/2006	625	N-Nitrosodi-n-propylamine	21.4000	UG/L	0.0000	0.0000
UST900-MW02	T-II	7/19/2006	625	Naphthalene	61.2000	UG/L	21.0000	15500.0000
UST900-MW04	T-II	7/18/2006	625	Naphthalene	131.0000	UG/L	21.0000	15500.0000
UST900-MW09	T-II	7/18/2006	625	Naphthalene	31.9000	UG/L	21.0000	15500.0000

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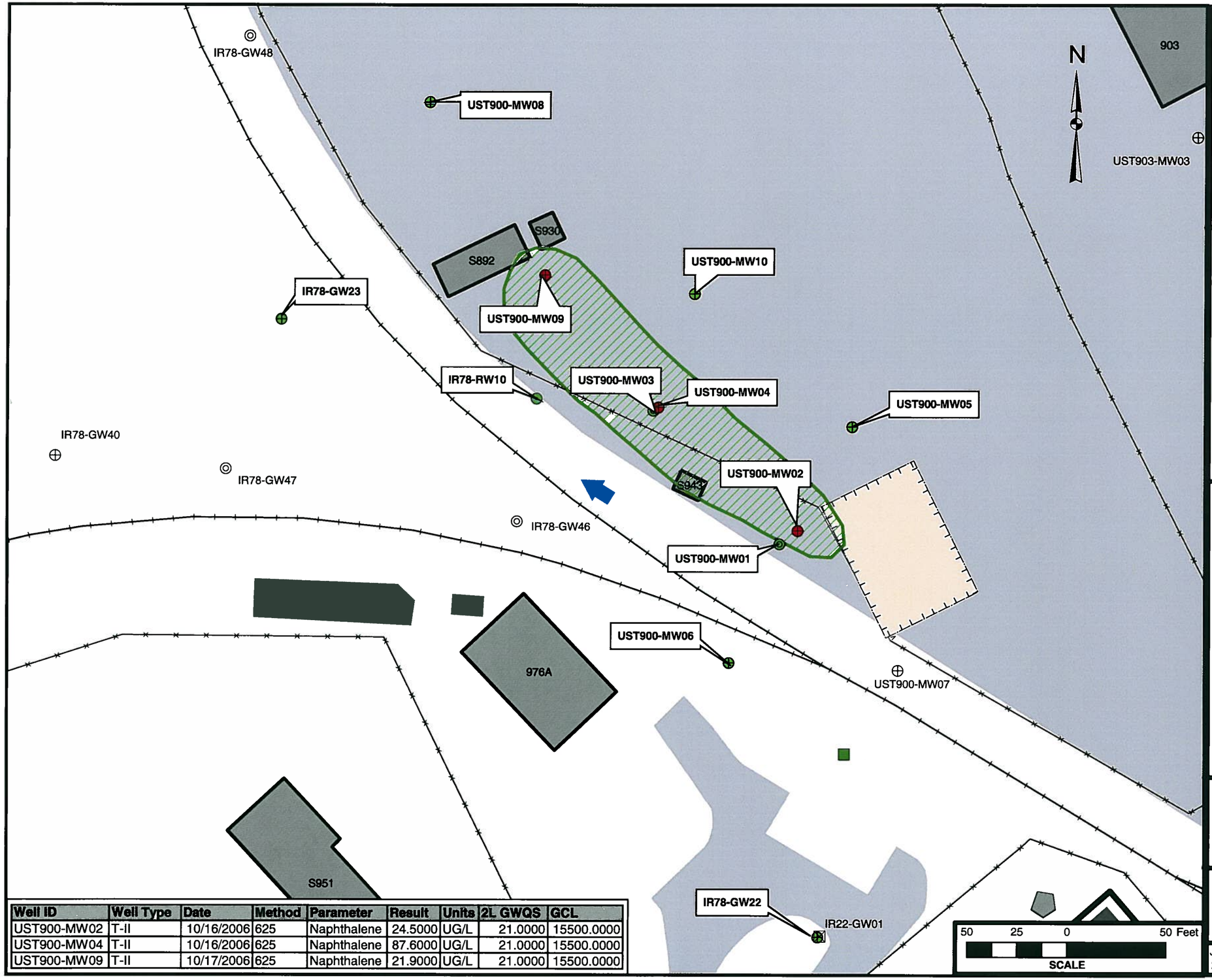
SITE 900
EPA METHOD 625 COLORIMETRY AND PLUME IN EXCESS OF 2L THIRD QUARTER 2006

FIGURE **15.4A**

Job No.:	Date:	Scale:	Drawn By:	Checked By:
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MCB CAMP LEJEUNE
UST MANAGEMENT PROGRAM
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Naval Facilities Engineering Command



LEGEND

Monitoring Wells
- Type I
- Type II
- Type III
- Pumping Well
- Unknown Well Type
- Water Supply Wells
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- Railroad Tracks

Walls and Fences
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Analytical Results
- Free Product Detected
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- 2L Compliant
- EPA 625 Plume
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3. A 2L Standard of "0.00" implies a standard has not yet been established. According to NCAC T15:02L, any compound found above laboratory detection limits is considered noncompliant unless otherwise specified by the NCDENR.

Well ID	Well Type	Date	Method	Parameter	Result	Units	2L GWQS	GCL
UST900-MW02	T-II	10/16/2006	625	Naphthalene	24.5000	UG/L	21.0000	15500.0000
UST900-MW04	T-II	10/16/2006	625	Naphthalene	87.6000	UG/L	21.0000	15500.0000
UST900-MW09	T-II	10/17/2006	625	Naphthalene	21.9000	UG/L	21.0000	15500.0000

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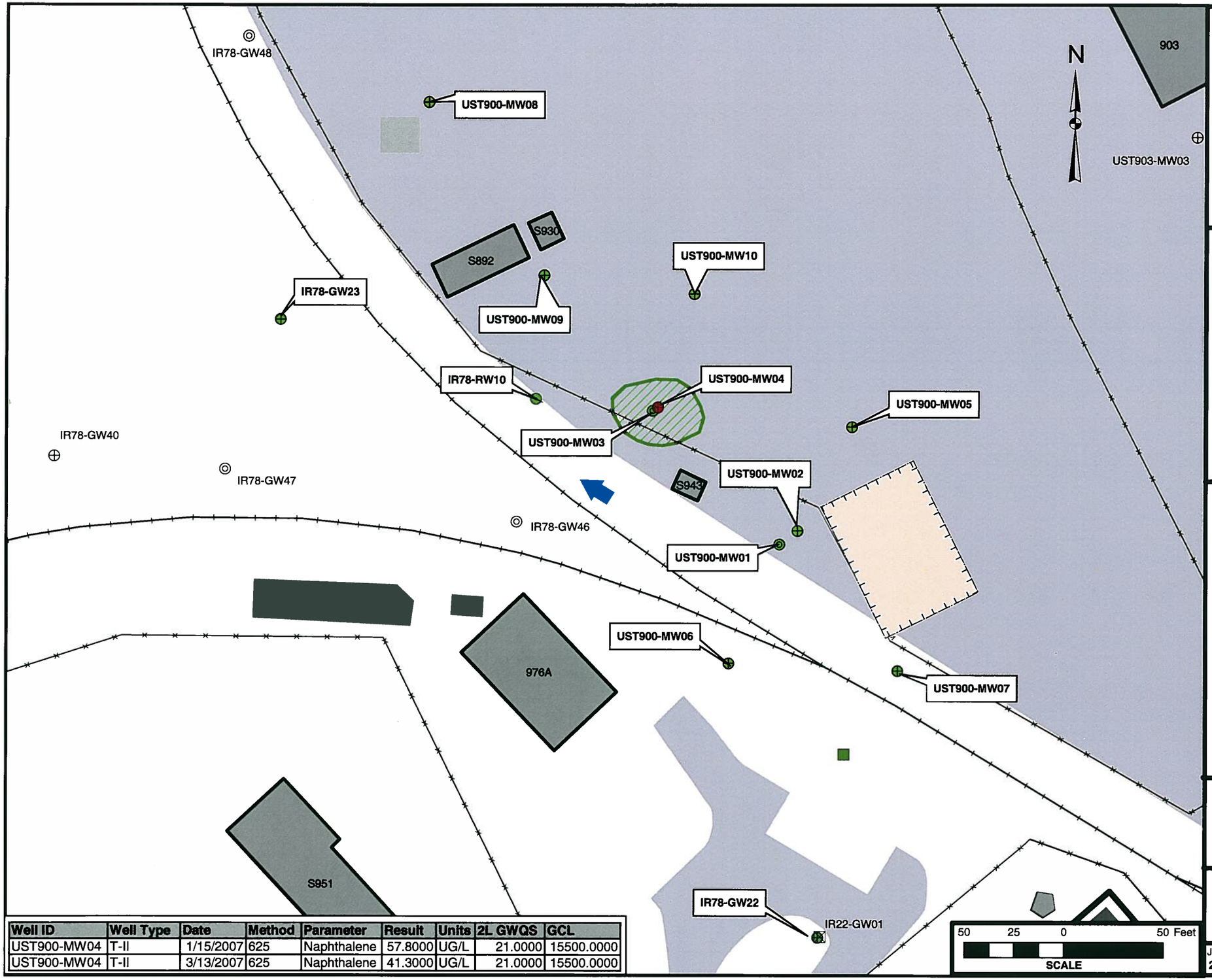
SITE 900
EPA METHOD 625 COLORIMETRY AND PLUME IN EXCESS OF 2L FOURTH QUARTER 2006

FIGURE **15.4B**

Job No.:	Date:	Scale:	Drawn By:	Checked By:
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MCB CAMP LEJEUNE
UST MANAGEMENT PROGRAM
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LEGEND

Monitoring Wells
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Analytical Results
- Free Product Detected
- 2L Non-Compliant
- 2L Compliant
- EPA 625 Plume

Buildings and Structures
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NOTES

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2. GCL refers to Gross Contaminant Level as defined in "Guidelines for the Assessment and Corrective Action" North Carolina Underground Storage Tank Section, effective July 1, 2001.
3. A 2L Standard of "0.00" implies a standard has not yet been established. According to NCAC T15:02L, any compound found above laboratory detection limits is considered noncompliant unless otherwise specified by the NCDENR.

Well ID	Well Type	Date	Method	Parameter	Result	Units	2L GWQS	GCL
UST900-MW04	T-II	1/15/2007	625	Naphthalene	57.8000	UG/L	21.0000	15500.0000
UST900-MW04	T-II	3/13/2007	625	Naphthalene	41.3000	UG/L	21.0000	15500.0000

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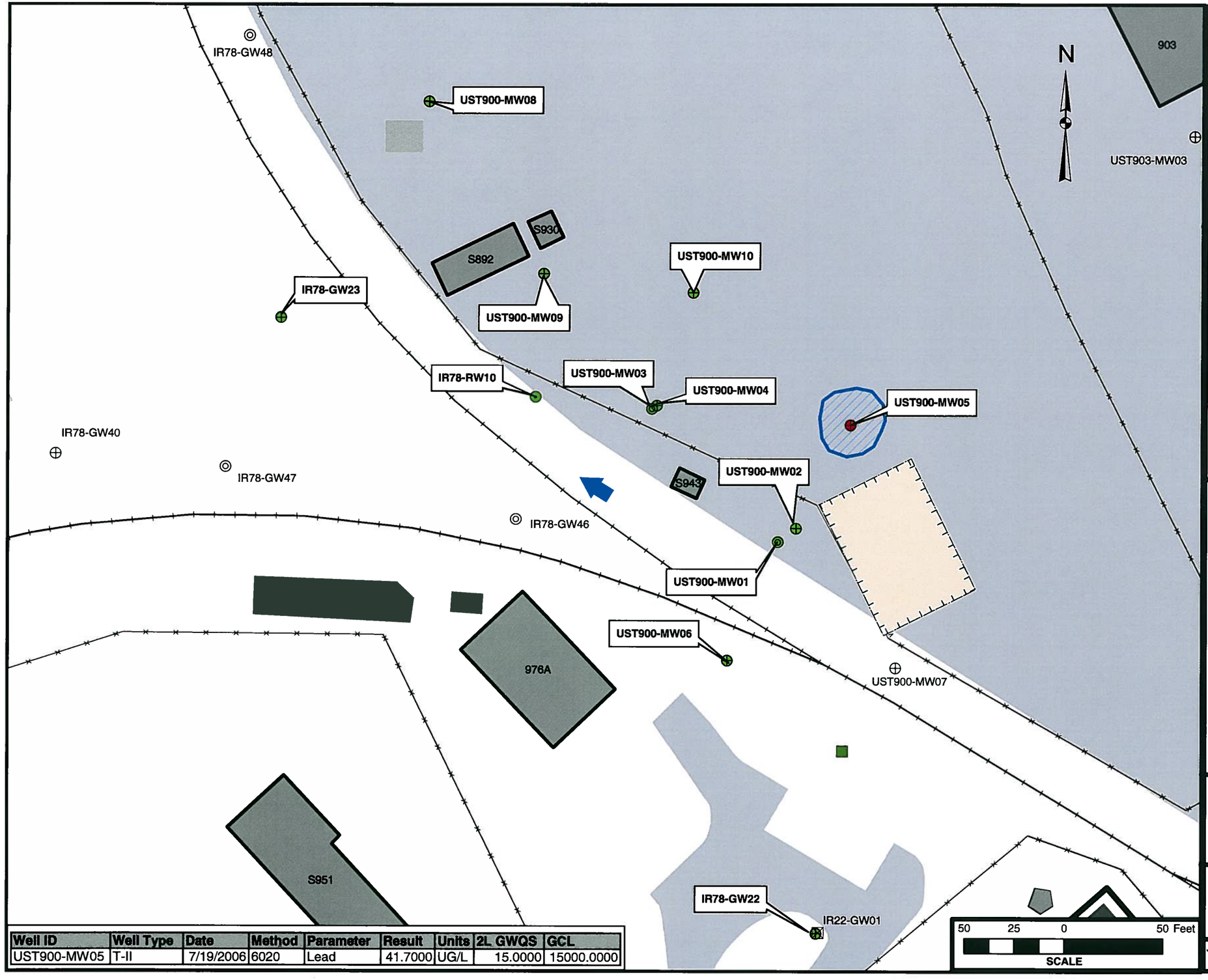
SITE 900
EPA METHOD 625 COLORIMETRY AND PLUME IN EXCESS OF 2L FIRST QUARTER 2007

FIGURE **15.4C**

Job No.:	Date:	Scale:	Drawn By:	Checked By:
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Well ID	Well Type	Date	Method	Parameter	Result	Units	2L GWQS	GCL
UST900-MW05	T-II	7/19/2006	6020	Lead	41.7000	UG/L	15.0000	15000.0000

LEGEND

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Walls and Fences
- FENCE
- GATE
- WALL

Analytical Results
- Free Product Detected
- 2L Non-Compliant
- 2L Compliant
- EPA 6020 Plume
- Buildings and Structures
- Demolished Structures
- Oil/Water Separators
- Slabs
- Roads
- Driveways
- Parking Lots
- Surface Water Bodies
- Creeks and Streams
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NOTES

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2. GCL refers to Gross Contaminant Level as defined in "Guidelines for the Assessment and Corrective Action" North Carolina Underground Storage Tank Section, effective July 1, 2001.
3. A 2L Standard of "0.00" implies a standard has not yet been established. According to NCAC T15:02L, any compound found above laboratory detection limits is considered noncompliant unless otherwise specified by the NCDENR.

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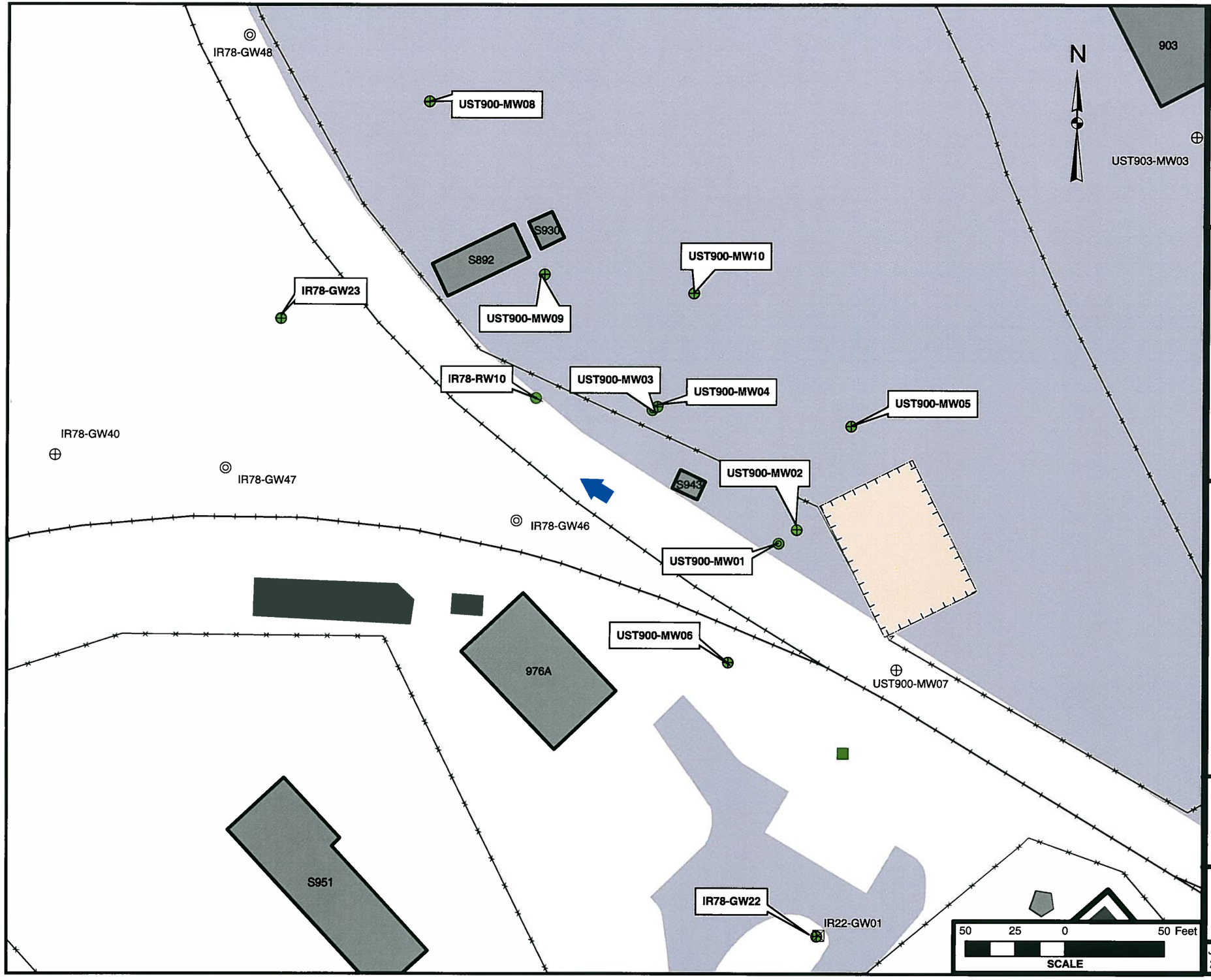
SITE 900
EPA METHOD 6020 COLORIMETRY AND PLUME IN EXCESS OF 2L THIRD QUARTER 2006

FIGURE
15.5A

Job No.:	Date:	Scale:	Drawn By:	Checked By:
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MCB CAMP LEJEUNE
UST MANAGEMENT PROGRAM
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LEGEND

Monitoring Wells
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Analytical Results
- Free Product Detected
- 2L Non-Compliant
- 2L Compliant
- EPA 6020 Plume
- Buildings and Structures
- Demolished Structures
- Oil/Water Separators
- Slabs
- Roads
- Driveways
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Vegetation Cover
- Forestland
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Airfield Pavement
- HELIPAD
- RAMP
- RUNWAY
- SHLDR_OVERRUN
- TAXIWAY

NOTES

1. No EPA Method 6020 compounds were detected above the 2L GWQS for any of the wells sampled during this monitoring event.

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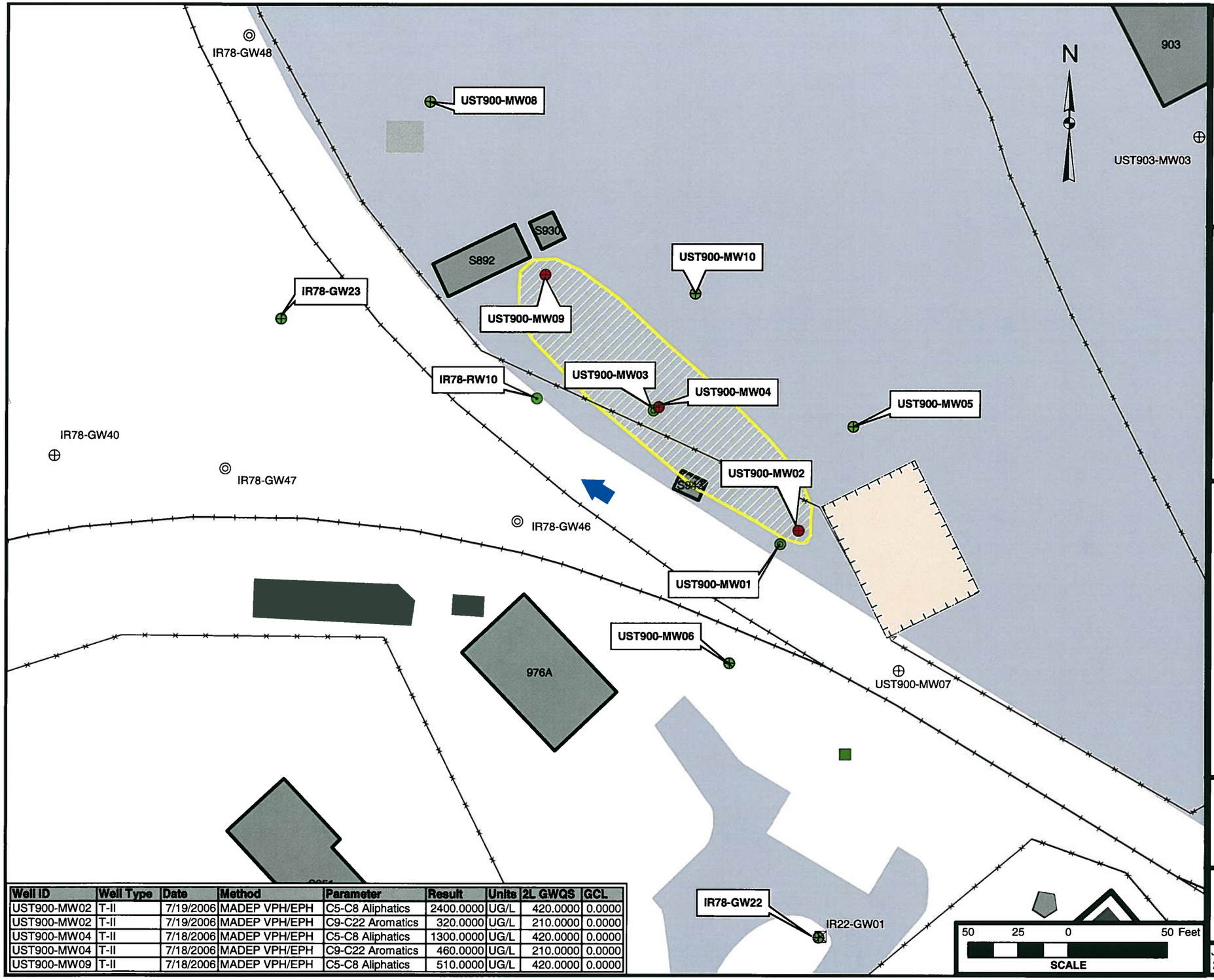
SITE 900
EPA METHOD 6020 COLORIMETRY AND PLUME IN EXCESS OF 2L FOURTH QUARTER 2006

FIGURE **15.5B**

Job No.:	Date:	Scale:	Drawn By:	Checked By:
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Well ID	Well Type	Date	Method	Parameter	Result	Units	2L GWQS	GCL
UST900-MW02	T-II	7/19/2006	MADEP VPH/EPH	C5-C8 Aliphatics	2400.0000	UG/L	420.0000	0.0000
UST900-MW02	T-II	7/19/2006	MADEP VPH/EPH	C9-C22 Aromatics	320.0000	UG/L	210.0000	0.0000
UST900-MW04	T-II	7/18/2006	MADEP VPH/EPH	C5-C8 Aliphatics	1300.0000	UG/L	420.0000	0.0000
UST900-MW04	T-II	7/18/2006	MADEP VPH/EPH	C9-C22 Aromatics	460.0000	UG/L	210.0000	0.0000
UST900-MW09	T-II	7/18/2006	MADEP VPH/EPH	C5-C8 Aliphatics	510.0000	UG/L	420.0000	0.0000

LEGEND

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Analytical Results
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- 2L Compliant
- MADEP Plume

- Buildings and Structures
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- Slabs
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NOTES

1. 2L Standard refers to North Carolina Groundwater Quality Standard 15A NCAC 2L.0202.
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3. A 2L Standard of "0.00" implies a standard has not yet been established. According to NCAC T15:02L, any compound found above laboratory detection limits is considered noncompliant unless otherwise specified by the NCDENR.

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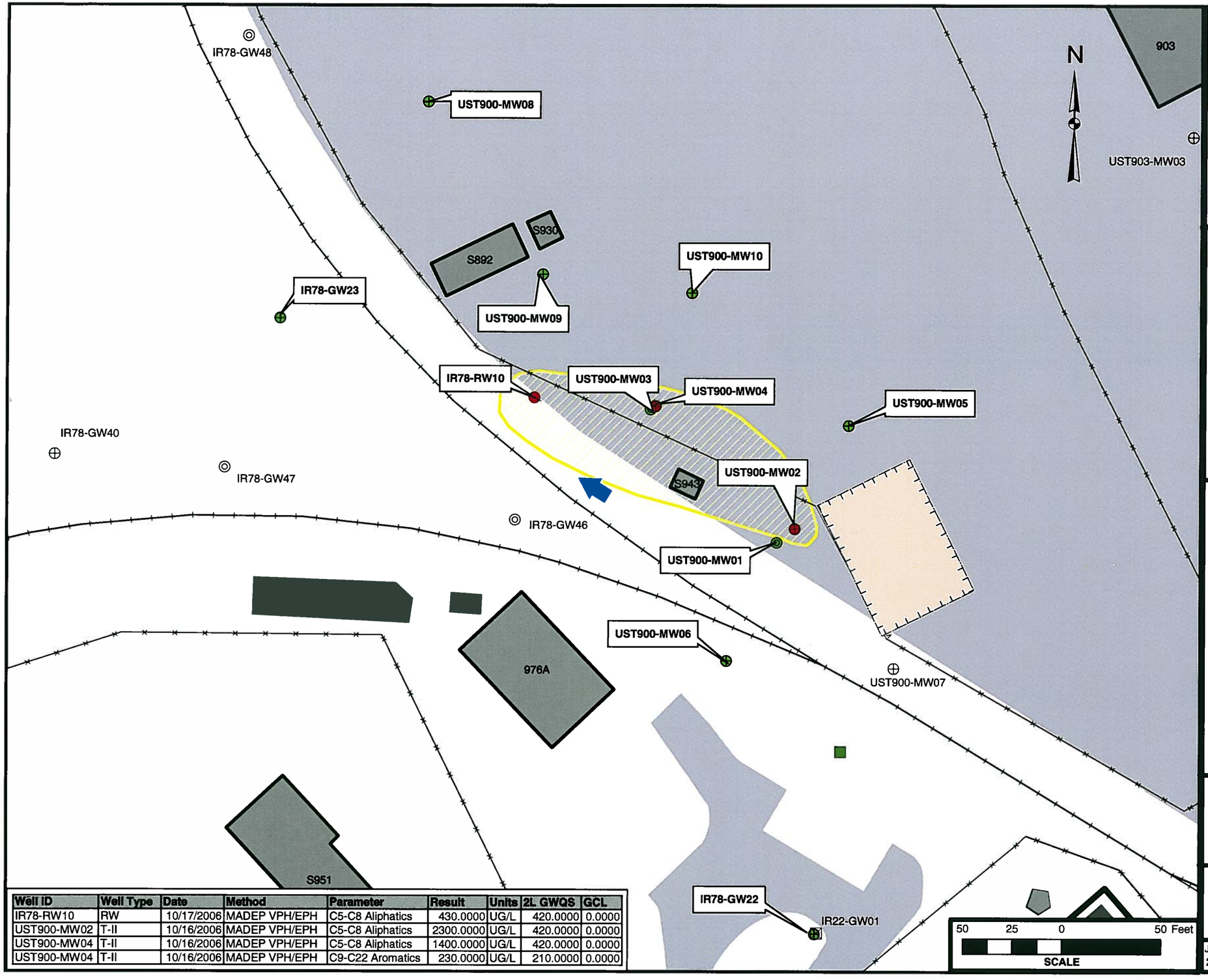
SITE 900
MADEP VPH/EPH COLORIMETRY AND PLUME IN EXCESS OF 2L
THIRD QUARTER 2006

FIGURE
15.6A

Job No.:	Date:	Scale:	Drawn By:	Checked By:
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UST MANAGEMENT PROGRAM
CALENDAR YEAR 2007

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LEGEND

Monitoring Wells
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NOTES

1. 2L Standard refers to North Carolina Groundwater Quality Standard 15A NCAC 2L.0202.
2. GCL refers to Gross Contaminant Level as defined in "Guidelines for the Assessment and Corrective Action" North Carolina Underground Storage Tank Section, effective July 1, 2001.
3. A 2L Standard of "0.00" implies a standard has not yet been established. According to NCAC T15:02L, any compound found above laboratory detection limits is considered noncompliant unless otherwise specified by the NCDENR.

Well ID	Well Type	Date	Method	Parameter	Result	Units	2L GWQS	GCL
IR78-RW10	RW	10/17/2006	MADEP VPH/EPH	C5-C8 Aliphatics	430.0000	UG/L	420.0000	0.0000
UST900-MW02	T-II	10/16/2006	MADEP VPH/EPH	C5-C8 Aliphatics	2300.0000	UG/L	420.0000	0.0000
UST900-MW04	T-II	10/16/2006	MADEP VPH/EPH	C5-C8 Aliphatics	1400.0000	UG/L	420.0000	0.0000
UST900-MW04	T-II	10/16/2006	MADEP VPH/EPH	C9-C22 Aromatics	230.0000	UG/L	210.0000	0.0000

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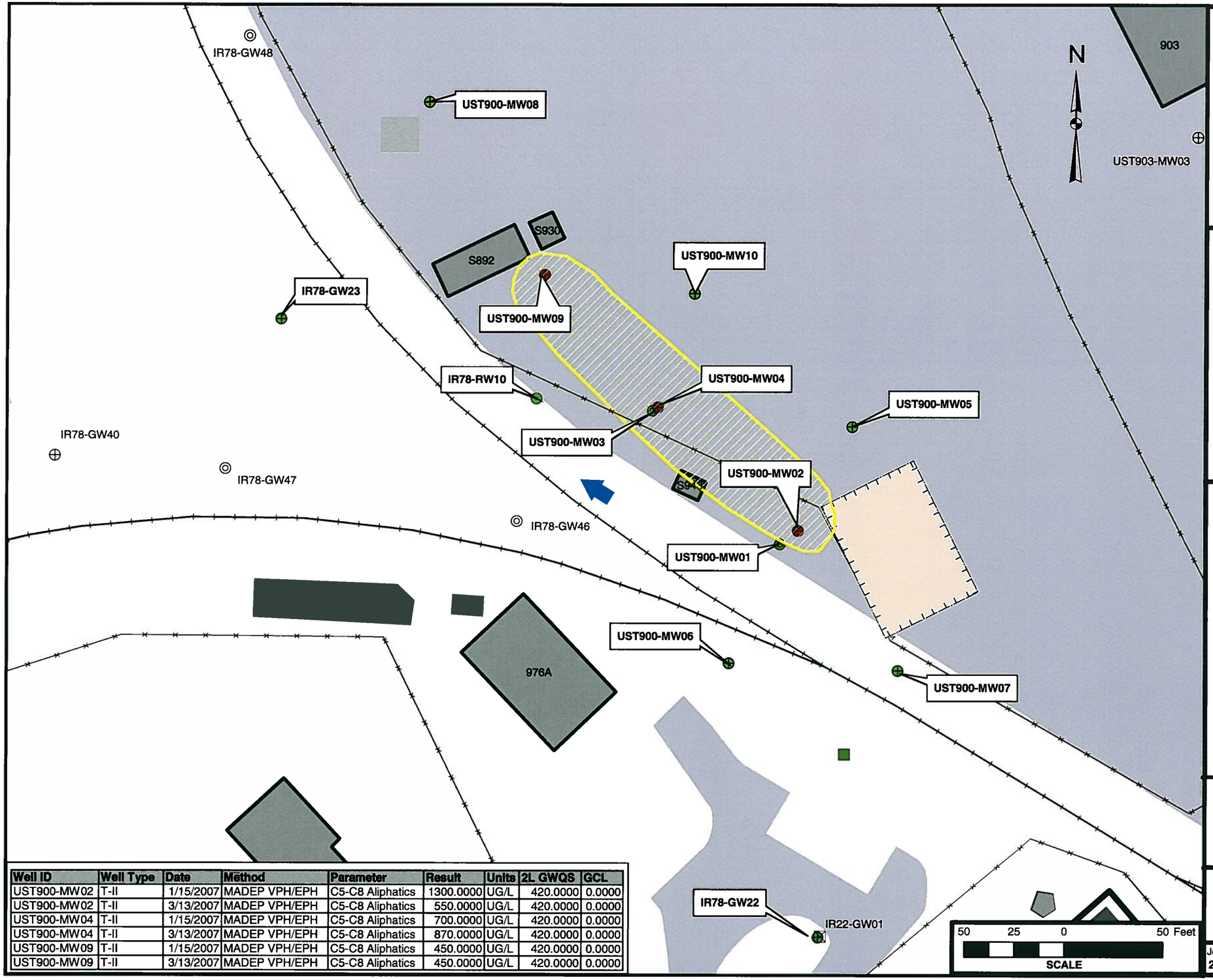
SITE 900
MADEP VPH/EPH COLORIMETRY AND PLUME IN EXCESS OF 2L FOURTH QUARTER 2006

FIGURE
15.6B

Job No.:	Date:	Scale:	Drawn By:	Checked By:
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MCB CAMP LEJEUNE
UST MANAGEMENT PROGRAM
CALENDAR YEAR 2007

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LEGEND

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Analytical Results
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NOTES

1. 2L Standard refers to North Carolina Groundwater Quality Standard 15A NCAC 2L.0202.
2. GCL refers to Gross Contaminant Level as defined in "Guidelines for the Assessment and Corrective Action" North Carolina Underground Storage Tank Section, effective July 1, 2001.
3. A 2L Standard of "0.00" implies a standard has not yet been established. According to NCAC T15:02L, any compound found above laboratory detection limits is considered noncompliant unless otherwise specified by the NCDENR.

Well ID	Well Type	Date	Method	Parameter	Result	Units	2L GWQS	GCL
UST900-MW02	T-II	1/15/2007	MADEP VPH/EPH	C5-C8 Aliphatics	1300.0000	UG/L	420.0000	0.0000
UST900-MW02	T-II	3/13/2007	MADEP VPH/EPH	C5-C8 Aliphatics	550.0000	UG/L	420.0000	0.0000
UST900-MW04	T-II	1/15/2007	MADEP VPH/EPH	C5-C8 Aliphatics	700.0000	UG/L	420.0000	0.0000
UST900-MW04	T-II	3/13/2007	MADEP VPH/EPH	C5-C8 Aliphatics	870.0000	UG/L	420.0000	0.0000
UST900-MW09	T-II	1/15/2007	MADEP VPH/EPH	C5-C8 Aliphatics	450.0000	UG/L	420.0000	0.0000
UST900-MW09	T-II	3/13/2007	MADEP VPH/EPH	C5-C8 Aliphatics	450.0000	UG/L	420.0000	0.0000

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SITE 900
MADEP VPH/EPH COLORIMETRY AND PLUME IN EXCESS OF 2L FIRST QUARTER 2007

FIGURE **15.6C**

Job No.:	Date:	Scale:	Drawn By:	Checked By:
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SECTION 16.0

OF THE

ANNUAL MANAGEMENT REPORT
MCB CAMP LEJEUNE UST MANAGEMENT PROGRAM

MONITORING EVENT:

YEAR 2007
(JANUARY – DECEMBER 2007)

SITE-SPECIFIC MONITORING REPORT
FOR

SITE 1323-3

NCDENR INCIDENT NO. 24232

16.0 EXECUTIVE SUMMARY
SITE 1323-3

16.1 Site Information

16.1.1 Site Location: MCB Camp Lejeune
16.1.2 Incident Number(s): 24232
16.1.3 UTM Coordinates (WGS84) (Meters):
16.1.4 Risk Classification: Low
16.1.5 Land Use Classification: Industrial/Commercial
16.1.6 Source Type(s): 600 gallon Used Oil UST

16.2 Monitoring Event Information

16.2.1 Sampling Performed By: No sampling performed.
16.2.2 Date(s) of This Monitoring Event: No sampling performed during 2007.
16.2.3 Date(s) of Previous Monitoring Event: Previous sampling performed by CATLIN as part of the Phase I LSA dated June 18, 2003.
16.2.4 Reason(s) for This Monitoring Event: Not Applicable.
16.2.5 Site Monitoring Status at Time of This Event: Site qualifies for NFA with LURs; however, it is recommended that the site be re-sampled during the next monitoring period to determine if contaminant levels have naturally attenuated to below the Residential MSCCs.

16.3 Groundwater Hydraulics

16.3.1 Hydraulic Conductivity: Unknown.
16.3.2 Effective Porosity: Unknown.
16.3.3 Hydraulic Gradient: Unknown.
16.3.4 Average Linear Groundwater Flow Velocity: Unknown.
16.3.5 Groundwater Flow Direction: Unknown.
16.3.6 Range of Measured Water Table Elevations: Elevation of UST1323-TMW01 not measured; DTW value in Phase I LSA reported as 13.5 feet BLS.
16.3.7 Significant Changes from Previously Reported Data: Not Applicable. No data was collected during this monitoring period

16.4 Free Product Plume

16.4.1 Free Product Present?: No.
16.4.2 Free Product Thickness Measured: Not Applicable.
16.4.3 Plume Size and Location: Not Applicable.
16.4.4 Free Product Removed from Site This Period: Not Applicable.
16.4.5 Significant Changes from Previously Reported Data: Not Applicable. No data was collected during this monitoring period.

16.5 Dissolved-Phase Plume

16.5.1 Plume Concentrations: Not Measured.
16.5.2 Plume Size and Location: Not Measured.
16.5.3 Significant Changes from Previously Reported Data: Not Applicable. This is the first Management Report prepared by CATLIN for this site. Groundwater sample analytical results from the2003 CATLIN LSA are discussed as follows:

The groundwater sample obtained from monitoring well UST1323-3-TW01 during the 2003 Phase I LSA was sent for laboratory analysis via EPA Method 602, EPA Method 625 + TICs, MADEP VPH/EPH, and EPA Method 6020 (Chromium and Lead). All target analytes were either below MDLs or below applicable 2L GWQS and GCLs, with one exception. The compound Bis(2-ethylhexyl)phthalate (DEHP) was detected at an estimated concentration of 6.4 µg/L as compared to the 2L GWQS of 2.5 µg/L.

16.6 Potential Receptors

16.6.1 Contaminated Water Supply Well(s)?: No.
16.6.2 Potable Water Supply Well Within 1,000 Feet of Source Area?: No.
16.6.3 Any Water Supply Well Within 250 Feet of Source Area?: No.
16.6.4 Surface Water Body Within 500 Feet?: Yes, there is a perennial stream located approximately 430 feet Northeast of the former tank basin.
16.6.5 Past Evidence of Vapors?: No.
16.6.6 Significant Changes from Previously Reported Data?: Not Applicable. This is the first Management Report prepared by CATLIN for this site.

16.7 Remediation

16.7.1 Complete.
16.7.2 Type: Soil excavation at tank closure.
16.7.3 Progress: Complete.
16.7.4 Construction Contractor: J.A. Jones
16.7.5 Operating Contractor: Not Applicable.

16.8 Observations and Comments

The site qualifies for NFA with a LUR via an email from NCDENR dated July 7, 2003. Tank closure soil sample 1323-3-4R contained C_9-C_{22} Aromatics (730 mg/kg) above the STGW and Residential MSCCs. During the next monitoring period, CATLIN recommends taking one soil sample from this location at a depth of 6.5 ft BLS (or just above groundwater if DTW is shallower than 6.5 ft BLS) and analyzing it per MADEP VPH/EPH.

Bis(2-ethylhexyl)phthalate was detected at an estimated concentration of 6.4 µg/L as compared to the 2L GWQS of 2.5 µg/L during the 2003 LSA sampling. It should be noted that this is not a petroleum-related compound. This compound is commonly used in plastics as a plasticizing agent. The occurrence of this compound is likely the result of sampling/laboratory artifact, resulting from the use of plastic sampling equipment and/or analytical instrument tubing. CATLIN recommends NFA for groundwater at the subject site.

SECTION 17.0

OF THE

ANNUAL MANAGEMENT REPORT
MCB CAMP LEJEUNE UST MANAGEMENT PROGRAM

MONITORING EVENT:

YEAR 2007
(JANUARY – DECEMBER 2007)

SITE-SPECIFIC MONITORING REPORT
FOR

SITE 1613

NCDENR INCIDENT NO. 20660

17.0 EXECUTIVE SUMMARY
SITE 1613

17.1 Site Information

17.1.1 Site Location: MCB Camp Lejeune (Hadnot Point)
17.1.2 Incident Number(s): 20660
17.1.3 UTM Coordinates (WGS84) (Meters): 285543.32 Easting, 3838804.85 Northing
17.1.4 Risk Classification: Low
17.1.5 Land Use Classification: Industrial/Commercial
17.1.6 Source Type(s): Gasoline

17.2 Monitoring Event Information

17.2.1 Sampling Performed By: Sovereign
17.2.2 Date(s) of This Monitoring Event: July 2007
17.2.3 Date(s) of Previous Monitoring Event: August 2005 and April 2006
17.2.4 Reason(s) for This Monitoring Event: Track migration and attenuation of dissolved-phase plume.
17.2.5 Site Monitoring Status at Time of This Event: Annual sampling of 10 on-site monitoring wells per EPA Methods 601, 602, and 625 and MADEP EPH/VPH.

17.3 Groundwater Hydraulics

17.3.1 Hydraulic Conductivity: 4.3 feet/day
17.3.2 Effective Porosity: 0.25
17.3.3 Hydraulic Gradient: 0.0314 feet/feet
17.3.4 Average Linear Groundwater Flow Velocity: 0.54 feet/day to the Northeast
17.3.5 Groundwater Flow Direction: East
17.3.6 Range of Measured Water Table Elevations: See Table17.1
17.3.7 Significant Changes from Previously Reported Data: Data collected during the previous monitoring period indicated erratic groundwater flow directions. The data collected during the current monitoring period indicates groundwater flow direction towards the east.

17.4 Free Product Plume

17.4.1 Free Product Present?: No. (Last observed in 2000)
17.4.2 Free Product Thickness Measured: Not Applicable
17.4.3 Plume Size and Location: Not Applicable
17.4.4 Free Product Removed from Site This Period: Not Applicable
17.4.5 Significant Changes from Previously Reported Data: None. See Figure 17.1.

17.5 Dissolved-Phase Plume

17.5.1 Plume Concentrations: See Tables 17.2 through 17.5

17.5.2 Plume Size and Location: See Figures 17.2 through 17.5

17.5.3 Significant Changes from Previously Reported Data: The current groundwater sample analytical results as compared to the April 2006 analytical results are discussed as follows:

EPA Method 601

During the April 2006 sampling event, no EPA Method 601 compounds were detected above the corresponding 2L GWQS. During the current sampling event (July 2007), Trichloroethene was detected in monitoring well UST1613-MW15 at a concentration of 3.98 ug/L which is above the 2L GWQS of 2.8 ug/L for this compound. Please note, monitoring well UST1613-MW15 was not sampled during the April 2006 monitoring event. See Figure 17.2.

EPA Method 602

During the current sampling event (July 2007), monitoring wells UST1613-MW17 and UST1613-MW18 contained EPA Method 602 contaminant concentrations in excess of the 2L GWQSs. During the previous sampling event (April 2006), groundwater samples were not collected from either of these monitoring wells. However, EPA Method 602 compounds were detected in excess of the 2L GWQSs in these two monitoring wells during the August 2005 sampling event. See Figure 17.3.

EPA Method 625

During the current sampling event (July 2007), monitoring well UST1613-MW17 contained Naphthalene at a concentration of 120 ug/L which is in excess of the 2L GWQS of 21 ug/L for this compound. During the previous sampling event (April 2006), groundwater samples were not collected from this monitoring well. See Figure 17.4.

MADEP VPH/EPH

During the current sampling event (July 2007), monitoring wells UST1613-MW17 and UST1613-MW18 contained MADEP contaminant concentrations in excess of the 2L GWQSs. During the previous sampling event (April 2006), groundwater samples were not collected from either of these monitoring wells. See Figure 17.5.

17.6 Potential Receptors

17.6.1 Contaminated Water Supply Well(s)?: None

17.6.2 Potable Water Supply Well Within 1,000 Feet of Source Area?: No

17.6.3 Any Water Supply Well Within 250 Feet of Source Area?: No

17.6.4 Surface Water Body Within 500 Feet?: No

17.6.5 Past Evidence of Vapors?: No

17.6.6 Significant Changes from Previously Reported Data?: All water supply wells previously identified within 1,500 feet of the subject site have been permanently abandoned.

17.7 Remediation

17.7.1 Status: Remediation system has been shutdown to facilitate site closure.

17.7.2 Type: Ten AS wells (~35 feet BLS) and 20 SVE wells (~8 feet BLS) operated continuously from November 16, 1998 to June 2004, with the exception of maintenance downtime. As stated by Sovereign, ISOC Unit was installed in June 2007 and is currently operating in monitoring well UST1613-MW09

17.7.3 Progress: System appears to have been effective in removal of Free Product and remediation of dissolved phase contamination to the cleanup goals GCLs. ISOC Unit being used in an attempt to remove residual concentrations of contaminants.

17.7.4 Construction Contractor: OHM (now Shaw) installed the current AS/SVE remediation system.

17.7.5 Operating Contractor: Sovereign

17.8 Observations and Comments

Site 1613 is classified as Low Risk and Industrial/Commercial Land Use; the GCLs (groundwater) and Industrial/Commercial MSCCs (soil) are applicable. Based on the historical and current analytical data the site can receive NFA with a LUR. CATLIN recommends that once the LUR documentation is finalized the subject site be added to this list. MCB Camp Lejeune should consider re-sampling 10 monitoring wells at the subject site in approximately two years to assess current groundwater conditions in an attempt to remove the LUR.

In an attempt to remove the LUR, CATLIN recommends that the ISOC Unit be moved to UST1613-MW22 as this is historically the most contaminated on-site monitoring well. CATLIN recommends that only this monitoring well be sampled on a semi-annual basis to assess the progress of the ISOC Unit. If the ISOC Unit is successful in reducing contaminant concentrations in UST1613-MW22 to below the 2L GWQS it should be moved to IR78-GW06 or UST1613-MW17 and then this well should be sampled on a semi-annual basis.

Also, it should be stated that the chlorinated compounds detected in samples from monitoring well UST1613-MW15 is believed to be associated with historical dry cleaning activities and not related to Site 1613 activities.

TABLE 17.1
SITE 1613
FIELD MEASUREMENTS - JULY 2005 TO DECEMBER 2007

Well No.	Type	TOC	Date	DTW	Product Thickness	Corrected GWT Elevation
IR78-GW05	T-II	28.08	8/10/2005	9.84	0.00	18.24
IR78-GW06	T-II	27.60	8/9/2005	14.16	0.00	13.44
IR78-GW06	T-II	27.60	4/6/2006	13.85	0.00	13.75
IR78-GW06	T-II	27.60	7/26/2007	14.64	0.00	12.96
UST1613-MW01	T-II	27.78	8/8/2005	13.90	0.00	13.88
UST1613-MW02	T-II	28.17	8/6/2005	11.39	0.00	16.78
UST1613-MW03	T-II	25.04	8/8/2005	11.32	0.00	13.72
UST1613-MW04	T-II	26.46	8/10/2005	7.07	0.00	19.39
UST1613-MW05	T-II	24.41	8/6/2005	7.19	0.00	17.22
UST1613-MW06	T-II	27.28	8/8/2005	13.61	0.00	13.67
UST1613-MW06	T-II	27.28	4/6/2006	13.57	0.00	13.71
UST1613-MW07	T-II	24.91	8/9/2005	8.94	0.00	15.97
UST1613-MW08	T-II	28.62	8/9/2005	6.33	0.00	22.29
UST1613-MW09	T-II	25.35	8/6/2005	5.73	0.00	19.62
UST1613-MW10	T-II	28.21	8/6/2005	14.62	0.00	13.59
UST1613-MW10	T-II	28.21	4/6/2006	14.63	0.00	13.58
UST1613-MW10	T-II	28.21	7/26/2007	15.23	0.00	12.98
UST1613-MW11	T-II	24.73	8/10/2005	10.74	0.00	13.99
UST1613-MW11	T-II	24.73	4/6/2006	10.48	0.00	14.25
UST1613-MW11	T-II	24.73	7/26/2007	11.55	0.00	13.18
UST1613-MW12	T-II	25.92	8/8/2005	11.92	0.00	14.00

Notes:
1. T-II = Type II monitoring well
   T-III = Type III monitoring well
   RW = Recovery well
2. TOC = Top of casing elevation in feet relative to Mean Sea Level.
3. DTW = Depth to water (in feet) from top of well casing.
4. Product thickness is measured in feet.
5. GWT = Groundwater Table
6. A zero ("0.00") in the product thickness column indicates no measureable thickness.
7. GWT Elevation corrected for measurable free product, if present.

Well No.	Type	TOC	Date	DTW	Product Thickness	Corrected GWT Elevation
UST1613-MW13	T-III	25.14	8/6/2005	11.11	0.00	14.03
UST1613-MW14	T-III	27.15	8/9/2005	14.40	0.00	12.75
UST1613-MW15	T-III	28.72	8/6/2005	17.11	0.00	11.61
UST1613-MW15	T-III	28.72	7/26/2007	17.72	0.00	11.00
UST1613-MW16	RW	26.65	8/8/2005	13.31	0.00	13.34
UST1613-MW16	RW	26.65	4/6/2006	13.36	0.00	13.29
UST1613-MW17	T-II	25.13	8/8/2005	11.63	0.00	13.50
UST1613-MW17	T-II	25.13	7/26/2007	12.49	0.00	12.64
UST1613-MW18	T-II	24.40	8/10/2005	11.32	0.00	13.08
UST1613-MW18	T-II	24.40	7/26/2007	11.69	0.00	12.71
UST1613-MW19	T-II	24.29	8/8/2005	10.79	0.00	13.50
UST1613-MW19	T-II	24.29	7/26/2007	11.49	0.00	12.80
UST1613-MW20	T-II	25.23	8/9/2005	11.76	0.00	13.47
UST1613-MW20	T-II	25.23	4/6/2006	11.71	0.00	13.52
UST1613-MW20	T-II	25.23	7/26/2007	12.34	0.00	12.89
UST1613-MW21	T-II	25.77	8/9/2005	11.64	0.00	14.13
UST1613-MW21	T-II	25.77	4/6/2006	11.71	0.00	14.06
UST1613-MW21	T-II	25.77	7/26/2007	12.34	0.00	13.43
UST1613-MW22	T-II	25.04	8/10/2005	11.50	0.00	13.54
UST1613-MW22	T-II	25.04	4/6/2006	11.36	0.00	13.68
UST1613-MW22	T-II	25.04	7/26/2007	11.99	0.00	13.05

Notes:
1. T-II = Type II monitoring well
   T-III = Type III monitoring well
   RW = Recovery well
2. TOC = Top of casing elevation in feet relative to Mean Sea Level.
3. DTW = Depth to water (in feet) from top of well casing.
4. Product thickness is measured in feet.
5. GWT = Groundwater Table
6. A zero ("0.00") in the product thickness column indicates no measureable thickness.
7. GWT Elevation corrected for measurable free product, if present.

TABLE 17.2

SITE 1613

GROUNDWATER LABORATORY ANALYTICAL RESULTS - JULY 2005 TO DECEMBER 2007

EPA METHOD 601

Contaminant of Concern →		1,3-Dichlorobenzene	cis-1,2-Dichloroethene	Tetrachloroethene	trans-1,2-Dichloroethene	Trichloroethene	Trichlorofluoromethane
Well ID	**Date**						
2L GWQS		170	70	0.7	100	2.8	2100
GCL		61500	70000	700	100000	2800	0
IR78-GW06	4/7/2006	BQL	BQL	BQL	BQL	BQL	BQL
IR78-GW06	7/26/2007	BQL	BQL	BQL	BQL	BQL	BQL
UST1613-MW06	4/7/2006	BQL	BQL	BQL	BQL	BQL	BQL
UST1613-MW10	4/7/2006	BQL	BQL	BQL	BQL	BQL	BQL
UST1613-MW10	7/26/2007	BQL	BQL	BQL	BQL	BQL	BQL
UST1613-MW11	4/7/2006	BQL	BQL	BQL	BQL	BQL	BQL
UST1613-MW11	7/26/2007	BQL	BQL	BQL	BQL	BQL	BQL
UST1613-MW15	7/26/2007	BQL	19.90	BQL	0.19	3.98	BQL
UST1613-MW16	4/10/2006	BQL	BQL	BQL	BQL	BQL	BQL
UST1613-MW17	7/26/2007	BQL	BQL	BQL	BQL	BQL	BQL
UST1613-MW18	7/26/2007	BQL	BQL	BQL	BQL	BQL	0.78

Notes:
1. 2L GWQS = North Carolina groundwater quality standard 15A NCAC 2L .0202
2. GCL = Gross Contamination Levels for ground water as defined in "Guidelines for Assessment and Corrective Action" North Carolina Underground Storage Tank Section, effective July 1, 2001
3. All units are in ug/L (Micrograms per Liter)
4. BQL = Below Quantitaion Limits
5. A zero in the 2L GWQS row indicates the 2L Standard is equal to the laboratory detection limit
6. A zero in the GCL row indicates a GCL has not been established
7. Shaded concentrations indicate exceedance of the 2L GWQS
8. Only compounds which were detected are shown on table. All other compounds were BQL

TABLE 17.2

SITE 1613

GROUNDWATER LABORATORY ANALYTICAL RESULTS - JULY 2005 TO DECEMBER 2007

EPA METHOD 601

Contaminant of Concern →		1,3-Dichlorobenzene	cis-1,2-Dichloroethene	Tetrachloroethene	trans-1,2-Dichloroethene	Trichloroethene	Trichlorofluoromethane
Well ID	Date						
2L GWQS		170	70	0.7	100	2.8	2100
GCL		61500	70000	700	100000	2800	0
UST1613-MW19	7/26/2007	BQL	BQL	BQL	BQL	BQL	BQL
UST1613-MW20	4/10/2006	BQL	BQL	BQL	BQL	BQL	BQL
UST1613-MW20	7/26/2007	BQL	BQL	0.23	BQL	BQL	BQL
UST1613-MW21	4/10/2006	BQL	BQL	BQL	BQL	BQL	BQL
UST1613-MW21	7/26/2007	BQL	BQL	BQL	BQL	BQL	BQL
UST1613-MW22	4/10/2006	BQL	BQL	BQL	BQL	BQL	BQL
UST1613-MW22	7/26/2007	0.10	BQL	BQL	BQL	BQL	BQL

Notes:
1. 2L GWQS = North Carolina groundwater quality standard 15A NCAC 2L .0202
2. GCL = Gross Contamination Levels for ground water as defined in "Guidelines for Assessment and Corrective Action" North Carolina Underground Storage Tank Section, effective July 1, 2001
3. All units are in ug/L (Micrograms per Liter)
4. BQL = Below Quantitaion Limits
5. A zero in the 2L GWQS row indicates the 2L Standard is equal to the laboratory detection limit
6. A zero in the GCL row indicates a GCL has not been established
7. Shaded concentrations indicate exceedance of the 2L GWQS
8. Only compounds which were detected are shown on table. All other compounds were BQL

TABLE 17.3

SITE 1613

GROUNDWATER LABORATORY ANALYTICAL RESULTS - JULY 2005 TO DECEMBER 2007

EPA METHOD 602

Contaminant of Concern →		1,2-Dichloroethane	Benzene	cis-1,2-Dichloroethene	Diisopropyl ether (DIPE)	Ethylbenzene	Methyl Tert Butyl Ether	Methyl-tert butyl ether	Tetrachloroethene	Toluene	Total Xylenes	trans-1,2-Dichloroethene	Trichloroethene	Xylenes (total)
Well ID	**Date**													
2L GWQS		0.38	1	70	70	550	200	200	0.7	1000	530	100	2.8	530
GCL		380	5000	70000	70000	550000	200000	200000	700	257500	87500	100000	2800	87500
IR78-GW06	4/7/2006	BQL	BQL	BQL	BQL	48.80	BQL	BQL	BQL	105.00	BQL	BQL	BQL	**991.00**
IR78-GW06	7/26/2007	BQL	**7.55**	BQL	BQL	119.00	BQL	BQL	BQL	179.00	**2370.00**	BQL	BQL	BQL
UST1613-HPGW6	8/3/2005	BQL	**35.20**	BQL	BQL	243.00	BQL	BQL	BQL	199.00	BQL	BQL	BQL	**3080.00**
UST1613-MW01	8/2/2005	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
UST1613-MW02	8/2/2005	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
UST1613-MW03	8/5/2005	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
UST1613-MW04	8/3/2005	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
UST1613-MW05	8/3/2005	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
UST1613-MW06	8/2/2005	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
UST1613-MW06	4/7/2006	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL

Notes:
1. 2L GWQS = North Carolina groundwater quality standard 15A NCAC 2L .0202
2. GCL = Gross Contamination Levels for ground water as defined in "Guidelines for Assessment and Corrective Action" North Carolina Underground Storage Tank Section, effective July 1, 2001
3. All units are in ug/L (Micrograms per Liter)
4. BQL = Below Quantitaion Limits
5. A zero in the 2L GWQS row indicates the 2L Standard is equal to the laboratory detection limit
6. A zero in the GCL row indicates a GCL has not been established
7. Shaded concentrations indicate exceedance of the 2L GWQS
8. Only compounds which were detected are shown on table. All other compounds were BQL

TABLE 17.3

SITE 1613

GROUNDWATER LABORATORY ANALYTICAL RESULTS - JULY 2005 TO DECEMBER 2007

EPA METHOD 602

Contaminant of Concern →		1,2-Dichloroethane	Benzene	cis-1,2-Dichloroethene	Diisopropyl ether (DIPE)	Ethylbenzene	Methyl Tert Butyl Ether	Methyl-tert butyl ether	Tetrachloroethene	Toluene	Total Xylenes	trans-1,2-Dichloroethene	Trichloroethene	Xylenes (total)
Well ID	Date													
2L GWQS		0.38	1	70	70	550	200	200	0.7	1000	530	100	2.8	530
GCL		380	5000	70000	70000	550000	200000	200000	700	257500	87500	100000	2800	87500
UST1613-MW07	8/2/2005	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
UST1613-MW08	8/4/2005	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
UST1613-MW09	8/3/2005	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
UST1613-MW09	12/19/2007	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
UST1613-MW10	8/4/2005	BQL	BQL	BQL	BQL	BQL	1.50	BQL	BQL	BQL	BQL	BQL	BQL	BQL
UST1613-MW10	4/7/2006	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
UST1613-MW10	7/26/2007	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
UST1613-MW11	8/5/2005	BQL	0.71	BQL	BQL	BQL	0.99	BQL	BQL	BQL	BQL	BQL	BQL	BQL
UST1613-MW11	4/7/2006	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
UST1613-MW11	7/26/2007	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
UST1613-MW12	8/4/2005	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL

Notes:
1. 2L GWQS = North Carolina groundwater quality standard 15A NCAC 2L .0202
2. GCL = Gross Contamination Levels for ground water as defined in "Guidelines for Assessment and Corrective Action" North Carolina Underground Storage Tank Section, effective July 1, 2001
3. All units are in ug/L (Micrograms per Liter)
4. BQL = Below Quantitaion Limits
5. A zero in the 2L GWQS row indicates the 2L Standard is equal to the laboratory detection limit
6. A zero in the GCL row indicates a GCL has not been established
7. Shaded concentrations indicate exceedance of the 2L GWQS
8. Only compounds which were detected are shown on table. All other compounds were BQL

TABLE 17.3

SITE 1613

GROUNDWATER LABORATORY ANALYTICAL RESULTS - JULY 2005 TO DECEMBER 2007

EPA METHOD 602

Contaminant of Concern →		1,2-Dichloroethane	Benzene	cis-1,2-Dichloroethene	Diisopropyl ether (DIPE)	Ethylbenzene	Methyl Tert Butyl Ether	Methyl-tert butyl ether	Tetrachloroethene	Toluene	Total Xylenes	trans-1,2-Dichloroethene	Trichloroethene	Xylenes (total)
Well ID	**Date**													
2L GWQS		0.38	1	70	70	550	200	200	0.7	1000	530	100	2.8	530
GCL		380	5000	70000	70000	550000	200000	200000	700	257500	87500	100000	2800	87500
UST1613-MW13	8/2/2005	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	**6.40**	BQL
UST1613-MW14	8/4/2005	BQL	BQL	8.60	BQL	BQL	BQL	BQL	BQL	BQL	BQL	0.84	**25.20**	BQL
UST1613-MW15	8/4/2005	**0.67**	BQL	25.90	BQL	BQL	**289.00**	BQL	BQL	BQL	BQL	0.57	**10.80**	BQL
UST1613-MW15	7/26/2007	BQL	BQL	BQL	BQL	BQL	BQL	74.60	BQL	BQL	BQL	BQL	BQL	BQL
UST1613-MW16	8/4/2005	BQL	BQL	BQL	BQL	BQL	13.80	BQL	BQL	BQL	BQL	BQL	BQL	BQL
UST1613-MW16	4/10/2006	BQL	BQL	BQL	BQL	BQL	BQL	7.18	BQL	1.85	BQL	BQL	BQL	BQL
UST1613-MW17	8/3/2005	BQL	**328.00**	BQL	BQL	**560.00**	BQL	BQL	BQL	**4060.00**	BQL	BQL	BQL	**4140.00**
UST1613-MW17	7/26/2007	BQL	BQL	BQL	BQL	245.00	BQL	BQL	BQL	**2850.00**	**2189.00**	BQL	BQL	BQL
UST1613-MW18	8/3/2005	BQL	**1.20**	BQL	BQL	4.00	BQL	BQL	BQL	0.78	BQL	BQL	BQL	103.00
UST1613-MW18	7/26/2007	BQL	**2.00**	BQL	5.73	0.86	BQL	1.38	BQL	BQL	28.30	BQL	BQL	BQL

Notes:
1. 2L GWQS = North Carolina groundwater quality standard 15A NCAC 2L .0202
2. GCL = Gross Contamination Levels for ground water as defined in "Guidelines for Assessment and Corrective Action" North Carolina Underground Storage Tank Section, effective July 1, 2001
3. All units are in ug/L (Micrograms per Liter)
4. BQL = Below Quantitaion Limits
5. A zero in the 2L GWQS row indicates the 2L Standard is equal to the laboratory detection limit
6. A zero in the GCL row indicates a GCL has not been established
7. Shaded concentrations indicate exceedance of the 2L GWQS
8. Only compounds which were detected are shown on table. All other compounds were BQL

TABLE 17.3

SITE 1613

GROUNDWATER LABORATORY ANALYTICAL RESULTS - JULY 2005 TO DECEMBER 2007

EPA METHOD 602

Contaminant of Concern →		1,2-Dichloroethane	Benzene	cis-1,2-Dichloroethene	Diisopropyl ether (DIPE)	Ethylbenzene	Methyl Tert Butyl Ether	Methyl-tert butyl ether	Tetrachloroethene	Toluene	Total Xylenes	trans-1,2-Dichloroethene	Trichloroethene	Xylenes (total)
Well ID	**Date**													
2L GWQS		0.38	1	70	70	550	200	200	0.7	1000	530	100	2.8	530
GCL		380	5000	70000	70000	550000	200000	200000	700	257500	87500	100000	2800	87500
UST1613-MW19	8/3/2005	BQL	**2.50**	BQL	BQL	BQL	0.98	BQL	BQL	BQL	BQL	BQL	BQL	BQL
UST1613-MW19	7/26/2007	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
UST1613-MW20	8/4/2005	BQL	BQL	BQL	BQL	BQL	6.00	BQL	**0.82**	BQL	BQL	BQL	BQL	BQL
UST1613-MW20	4/10/2006	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
UST1613-MW20	7/26/2007	BQL	BQL	BQL	BQL	BQL	BQL	4.00	BQL	BQL	BQL	BQL	BQL	BQL
UST1613-MW21	8/4/2005	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
UST1613-MW21	4/10/2006	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
UST1613-MW21	7/26/2007	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
UST1613-MW22	8/4/2005	BQL	**119.00**	BQL	BQL	**908.00**	BQL	BQL	BQL	**1070.00**	BQL	BQL	BQL	**3240.00**
UST1613-MW22	4/10/2006	BQL	**120.00**	BQL	BQL	**983.00**	BQL	BQL	BQL	**1950.00**	BQL	BQL	BQL	**4010.00**
UST1613-MW22	7/26/2007	BQL	**18.70**	BQL	BQL	**655.00**	BQL	BQL	BQL	**1260.00**	**3010.00**	BQL	BQL	BQL

Notes:
1. 2L GWQS = North Carolina groundwater quality standard 15A NCAC 2L .0202
2. GCL = Gross Contamination Levels for ground water as defined in "Guidelines for Assessment and Corrective Action" North Carolina Underground Storage Tank Section, effective July 1, 2001
3. All units are in ug/L (Micrograms per Liter)
4. BQL = Below Quantitaion Limits
5. A zero in the 2L GWQS row indicates the 2L Standard is equal to the laboratory detection limit
6. A zero in the GCL row indicates a GCL has not been established
7. Shaded concentrations indicate exceedance of the 2L GWQS
8. Only compounds which were detected are shown on table. All other compounds were BQL

TABLE 17.4

SITE 1613

GROUNDWATER LABORATORY ANALYTICAL RESULTS - JULY 2005 TO DECEMBER 2007

EPA METHOD 625

Contaminant of Concern →		
Well ID	**Date**	**Naphthalene**
	2L GWQS	21
	GCL	15500
IR78-GW06	4/7/2006	**34.00**
IR78-GW06	7/26/2007	**82.10**
UST1613-MW06	4/7/2006	BQL
UST1613-MW09	12/19/2007	BQL
UST1613-MW10	4/7/2006	BQL
UST1613-MW10	7/26/2007	BQL
UST1613-MW11	4/7/2006	BQL
UST1613-MW11	7/26/2007	BQL
UST1613-MW15	7/26/2007	BQL
UST1613-MW16	4/10/2006	BQL
UST1613-MW17	7/26/2007	**120.00**

Notes:
1. 2L GWQS = North Carolina groundwater quality standard 15A NCAC 2L .0202
2. GCL = Gross Contamination Levels for ground water as defined in "Guidelines for Assessment and Corrective Action" North Carolina Underground Storage Tank Section, effective July 1, 2001
3. All units are in ug/L (Micrograms per Liter)
4. BQL = Below Quantitaion Limits
5. A zero in the 2L GWQS row indicates the 2L Standard is equal to the laboratory detection limit
6. A zero in the GCL row indicates a GCL has not been established
7. Shaded concentrations indicate exceedance of the 2L GWQS
8. Only compounds which were detected are shown on table. All other compounds were BQL

TABLE 17.4

SITE 1613

GROUNDWATER LABORATORY ANALYTICAL RESULTS - JULY 2005 TO DECEMBER 2007

EPA METHOD 625

Contaminant of Concern →		
Well ID	**Date**	**Naphthalene**
2L GWQS		21
GCL		15500
UST1613-MW18	7/26/2007	5.70
UST1613-MW19	7/26/2007	BQL
UST1613-MW20	4/10/2006	BQL
UST1613-MW20	7/26/2007	5.10
UST1613-MW21	4/10/2006	BQL
UST1613-MW21	7/26/2007	BQL
UST1613-MW22	4/10/2006	**471.00**
UST1613-MW22	7/26/2007	**360.00**

Notes:
1. 2L GWQS = North Carolina groundwater quality standard 15A NCAC 2L .0202
2. GCL = Gross Contamination Levels for ground water as defined in "Guidelines for Assessment and Corrective Action" North Carolina Underground Storage Tank Section, effective July 1, 2001
3. All units are in ug/L (Micrograms per Liter)
4. BQL = Below Quantitaion Limits
5. A zero in the 2L GWQS row indicates the 2L Standard is equal to the laboratory detection limit
6. A zero in the GCL row indicates a GCL has not been established
7. Shaded concentrations indicate exceedance of the 2L GWQS
8. Only compounds which were detected are shown on table. All other compounds were BQL

TABLE 17.5

SITE 1613

GROUNDWATER LABORATORY ANALYTICAL RESULTS - JULY 2005 TO DECEMBER 2007

MADEP VPH/EPH

Contaminant of Concern →		C19-C36 Aliphatics	C5-C8 Aliphatics	C9-C18 Aliphatics	C9-C22 Aromatics
Well ID	Date				
2L GWQS		42000	420	4200	210
GCL		0	0	0	0
IR78-GW06	4/7/2006	BQL	**720.00**	2100.00	**1910.00**
IR78-GW06	7/26/2007	BQL	**2530.00**	**5450.00**	**3690.00**
UST1613-MW06	4/7/2006	BQL	BQL	BQL	BQL
UST1613-MW09	12/19/2007	BQL	BQL	BQL	BQL
UST1613-MW10	4/7/2006	BQL	BQL	BQL	BQL
UST1613-MW10	7/26/2007	BQL	BQL	69.10	43.20
UST1613-MW11	4/7/2006	BQL	BQL	BQL	BQL
UST1613-MW11	7/26/2007	BQL	54.80	43.10	BQL
UST1613-MW15	7/26/2007	BQL	112.00	BQL	BQL
UST1613-MW16	4/10/2006	BQL	BQL	BQL	BQL
UST1613-MW17	7/26/2007	BQL	**7950.00**	**6220.00**	**2590.00**

Notes:
1. 2L GWQS = North Carolina groundwater quality standard 15A NCAC 2L .0202
2. GCL = Gross Contamination Levels for ground water as defined in "Guidelines for Assessment and Corrective Action" North Carolina Underground Storage Tank Section, effective July 1, 2001
3. All units are in ug/L (Micrograms per Liter)
4. BQL = Below Quantitaion Limits
5. A zero in the 2L GWQS row indicates the 2L Standard is equal to the laboratory detection limit
6. A zero in the GCL row indicates a GCL has not been established
7. Shaded concentrations indicate exceedance of the 2L GWQS
8. Only compounds which were detected are shown on table. All other compounds were BQL

TABLE 17.5

SITE 1613

GROUNDWATER LABORATORY ANALYTICAL RESULTS - JULY 2005 TO DECEMBER 2007

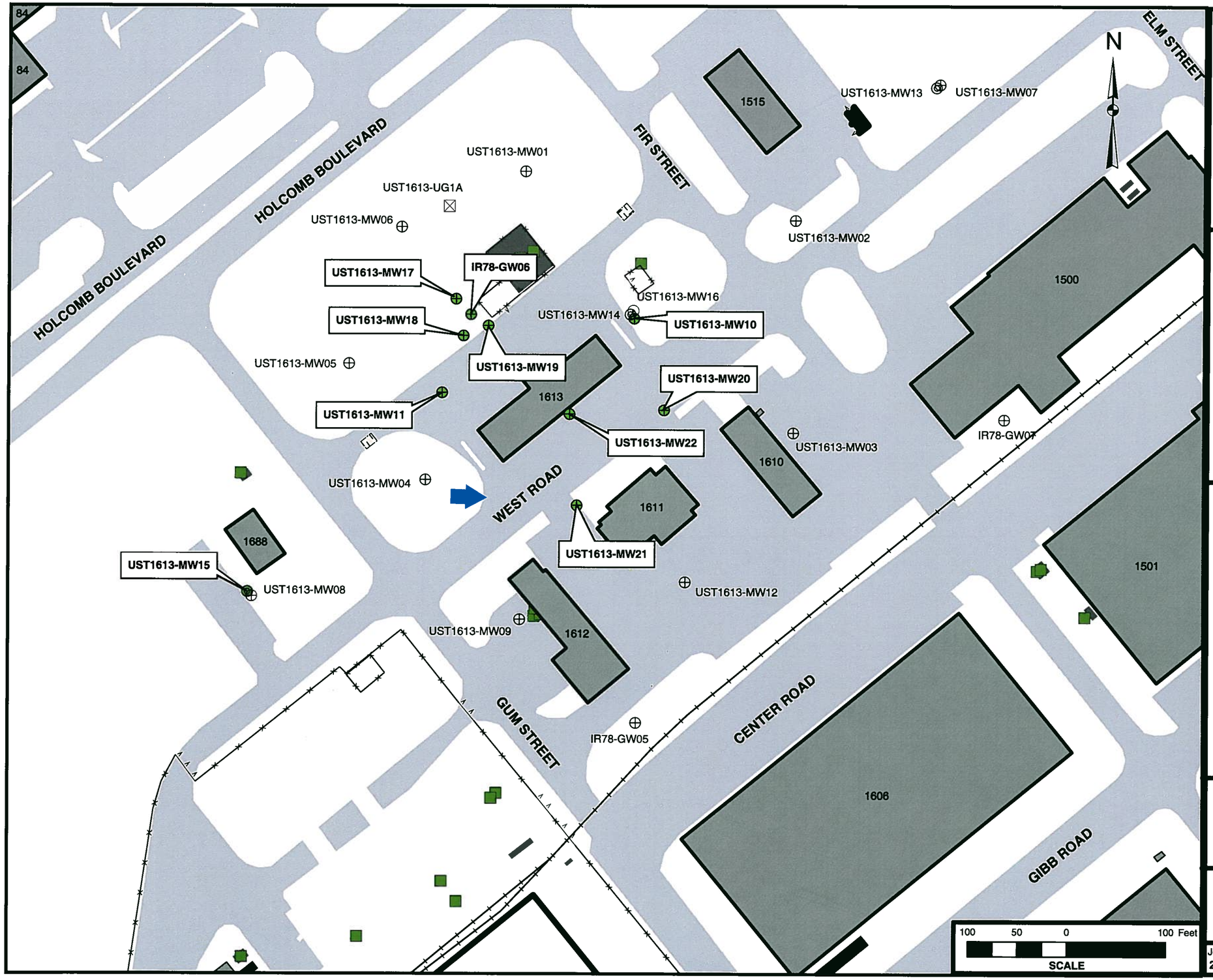
MADEP VPH/EPH

Contaminant of Concern →		C19-C36 Aliphatics	C5-C8 Aliphatics	C9-C18 Aliphatics	C9-C22 Aromatics
Well ID	Date				
2L GWQS		42000	420	4200	210
GCL		0	0	0	0
UST1613-MW18	7/26/2007	BQL	**430.00**	288.00	**552.00**
UST1613-MW19	7/26/2007	BQL	BQL	38.30	BQL
UST1613-MW20	4/10/2006	BQL	BQL	BQL	BQL
UST1613-MW20	7/26/2007	BQL	BQL	BQL	BQL
UST1613-MW21	4/10/2006	BQL	BQL	BQL	BQL
UST1613-MW21	7/26/2007	BQL	BQL	BQL	BQL
UST1613-MW22	4/10/2006	410.00	**3900.00**	**8500.00**	**4100.00**
UST1613-MW22	7/26/2007	BQL	**2850.00**	**7530.00**	**3720.00**

Notes:
1. 2L GWQS = North Carolina groundwater quality standard 15A NCAC 2L .0202
2. GCL = Gross Contamination Levels for ground water as defined in "Guidelines for Assessment and Corrective Action" North Carolina Underground Storage Tank Section, effective July 1, 2001
3. All units are in ug/L (Micrograms per Liter)
4. BQL = Below Quantitaion Limits
5. A zero in the 2L GWQS row indicates the 2L Standard is equal to the laboratory detection limit
6. A zero in the GCL row indicates a GCL has not been established
7. Shaded concentrations indicate exceedance of the 2L GWQS
8. Only compounds which were detected are shown on table. All other compounds were BQL

MCB CAMP LEJEUNE
UST MANAGEMENT PROGRAM
CALENDAR YEAR 2007

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LEGEND

Monitoring Wells
- Type I
- Type II
- Type III
- Pumping Well
- Unknown Well Type
- Water Supply Wells
- Above Ground Storage Tank
- Underground Storage Tank
- Railroad Tracks

Walls and Fences
- FENCE
- GATE
- WALL

Free Product
- Free Product Detected
- No Measurable Thickness
- Free Product Plume
- Buildings and Structures
- Demolished Structures
- Oil/Water Separators
- Slabs
- Roads
- Driveways
- Parking Lots
- Surface Water Bodies
- Creeks and Streams
- Historical Groundwater Flow Direction

Vegetation Cover
- Forestland
- Scrubland
- Wetland

Airfield Pavement
- HELIPAD
- RAMP
- RUNWAY
- SHLDR_OVERRUN
- TAXIWAY

NOTES

1. Free product was not detected at this site in any of the wells gauged during this monitoring event.

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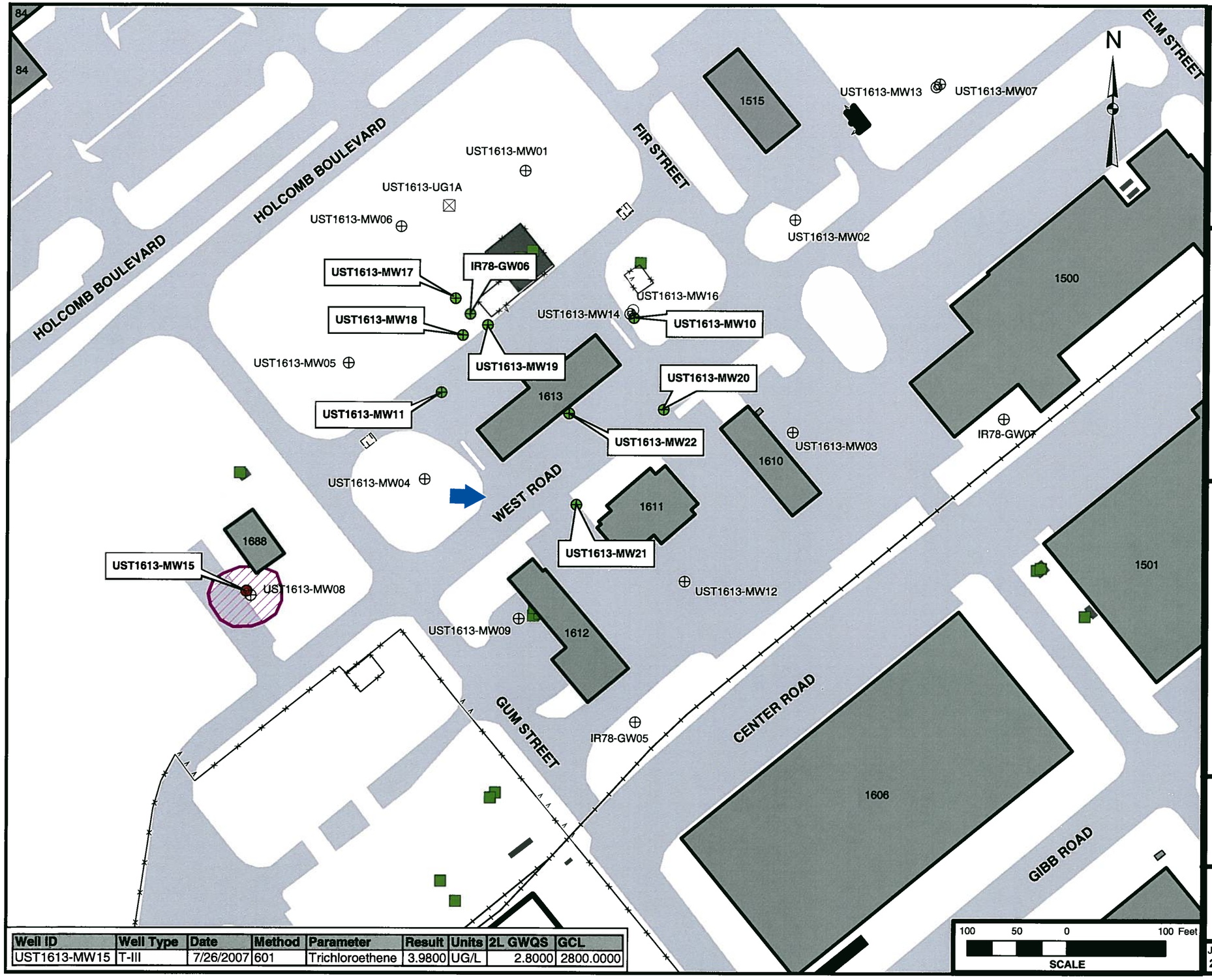
SITE 1613
FREE PRODUCT PLUME MAP
THIRD QUARTER 2007

FIGURE
17.1

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CALENDAR YEAR 2007

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Well ID	Well Type	Date	Method	Parameter	Result	Units	2L GWQS	GCL
UST1613-MW15	T-III	7/26/2007	601	Trichloroethene	3.9800	UG/L	2.8000	2800.0000

LEGEND

Monitoring Wells
- Type I
- Type II
- Type III
- Pumping Well
- Unknown Well Type
- Water Supply Wells
- Above Ground Storage Tank
- Underground Storage Tank
- Railroad Tracks

Walls and Fences
- FENCE
- GATE
- WALL

Analytical Results
- Free Product Detected
- 2L Non-Compliant
- 2L Compliant
- EPA 601 Plume
- Buildings and Structures
- Demolished Structures
- Oil/Water Separators
- Slabs
- Roads
- Driveways
- Parking Lots
- Surface Water Bodies
- Creeks and Streams
- Historical Groundwater Flow Direction

Vegetation Cover
- Forestland
- Scrubland
- Wetland

Airfield Pavement
- HELIPAD
- RAMP
- RUNWAY
- SHLDR_OVERRUN
- TAXIWAY

NOTES

1. 2L Standard refers to North Carolina Groundwater Quality Standard 15A NCAC 2L.0202.
2. GCL refers to Gross Contaminant Level as defined in "Guidelines for the Assessment and Corrective Action" North Carolina Underground Storage Tank Section, effective July 1, 2001.
3. A 2L Standard of "0.00" implies a standard has not yet been established. According to NCAC T15:02L, any compound found above laboratory detection limits is considered noncompliant unless otherwise specified by the NCDENR.

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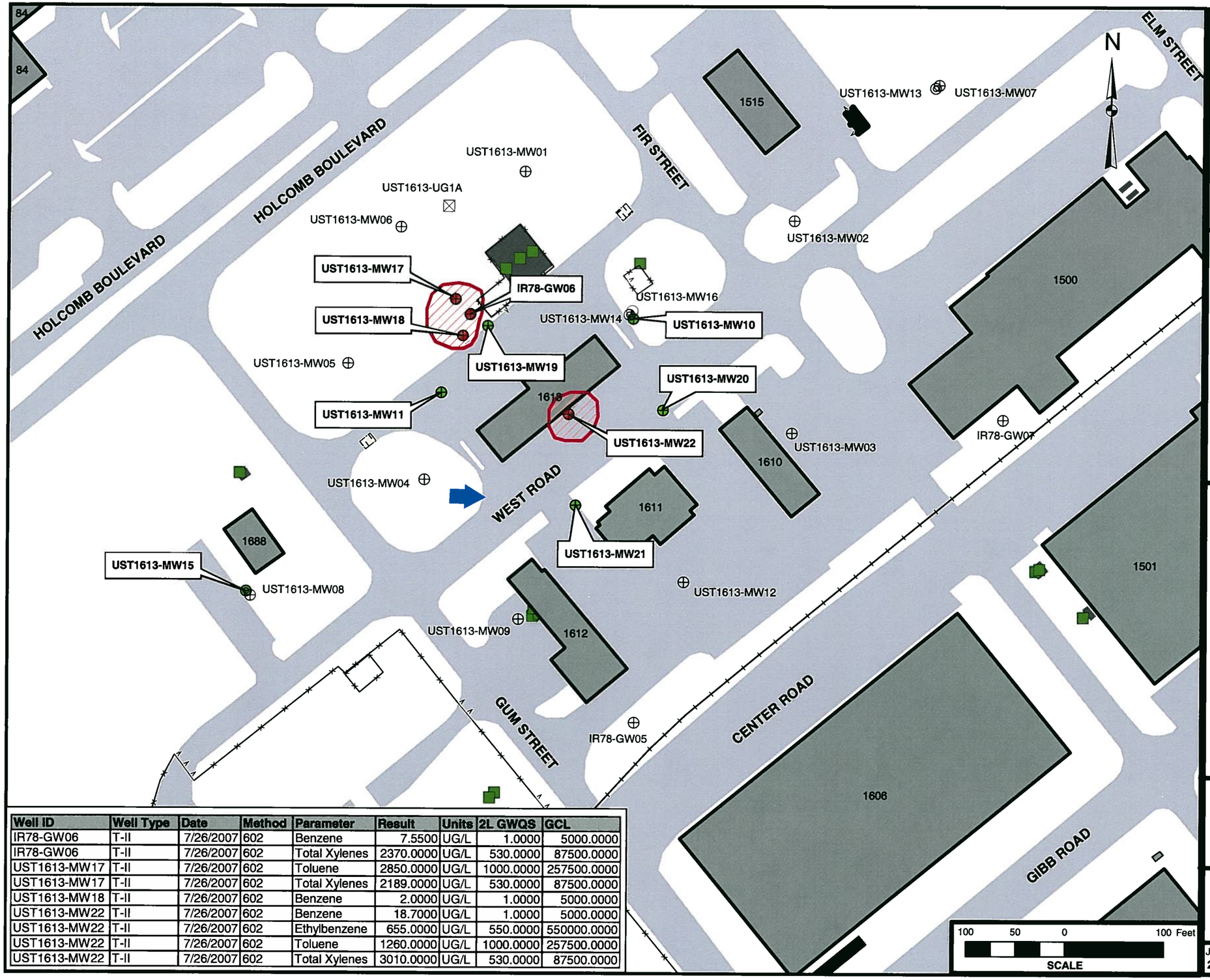
SITE 1613
EPA METHOD 601 COLORIMETRY AND PLUME IN EXCESS OF 2L THIRD QUARTER 2007

FIGURE
17.2

Job No.:	Date:	Scale:	Drawn By:	Checked By:
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MCB CAMP LEJEUNE
UST MANAGEMENT PROGRAM
CALENDAR YEAR 2007

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LEGEND

Monitoring Wells
- Type I
- Type II
- Type III
- Pumping Well
- Unknown Well Type
- Water Supply Wells
- Above Ground Storage Tank
- Underground Storage Tank
- Railroad Tracks

Walls and Fences
- FENCE
- GATE
- WALL

Analytical Results
- Free Product Detected
- 2L Non-Compliant
- 2L Compliant
- EPA 602 Plume
- Buildings and Structures
- Demolished Structures
- Oil/Water Separators
- Slabs
- Roads
- Driveways
- Parking Lots
- Surface Water Bodies
- Creeks and Streams
- Historical Groundwater Flow Direction

Vegetation Cover
- Forestland
- Scrubland
- Wetland

Airfield Pavement
- HELIPAD
- RAMP
- RUNWAY
- SHLDR_OVERRUN
- TAXIWAY

NOTES

1. 2L Standard refers to North Carolina Groundwater Quality Standard 15A NCAC 2L.0202.
2. GCL refers to Gross Contaminant Level as defined in "Guidelines for the Assessment and Corrective Action" North Carolina Underground Storage Tank Section, effective July 1, 2001.
3. A 2L Standard of "0.00" implies a standard has not yet been established. According to NCAC T15:02L, any compound found above laboratory detection limits is considered noncompliant unless otherwise specified by the NCDENR.

Well ID	Well Type	Date	Method	Parameter	Result	Units	2L GWQS	GCL
IR78-GW06	T-II	7/26/2007	602	Benzene	7.5500	UG/L	1.0000	5000.0000
IR78-GW06	T-II	7/26/2007	602	Total Xylenes	2370.0000	UG/L	530.0000	87500.0000
UST1613-MW17	T-II	7/26/2007	602	Toluene	2850.0000	UG/L	1000.0000	257500.0000
UST1613-MW17	T-II	7/26/2007	602	Total Xylenes	2189.0000	UG/L	530.0000	87500.0000
UST1613-MW18	T-II	7/26/2007	602	Benzene	2.0000	UG/L	1.0000	5000.0000
UST1613-MW22	T-II	7/26/2007	602	Benzene	18.7000	UG/L	1.0000	5000.0000
UST1613-MW22	T-II	7/26/2007	602	Ethylbenzene	655.0000	UG/L	550.0000	550000.0000
UST1613-MW22	T-II	7/26/2007	602	Toluene	1260.0000	UG/L	1000.0000	257500.0000
UST1613-MW22	T-II	7/26/2007	602	Total Xylenes	3010.0000	UG/L	530.0000	87500.0000

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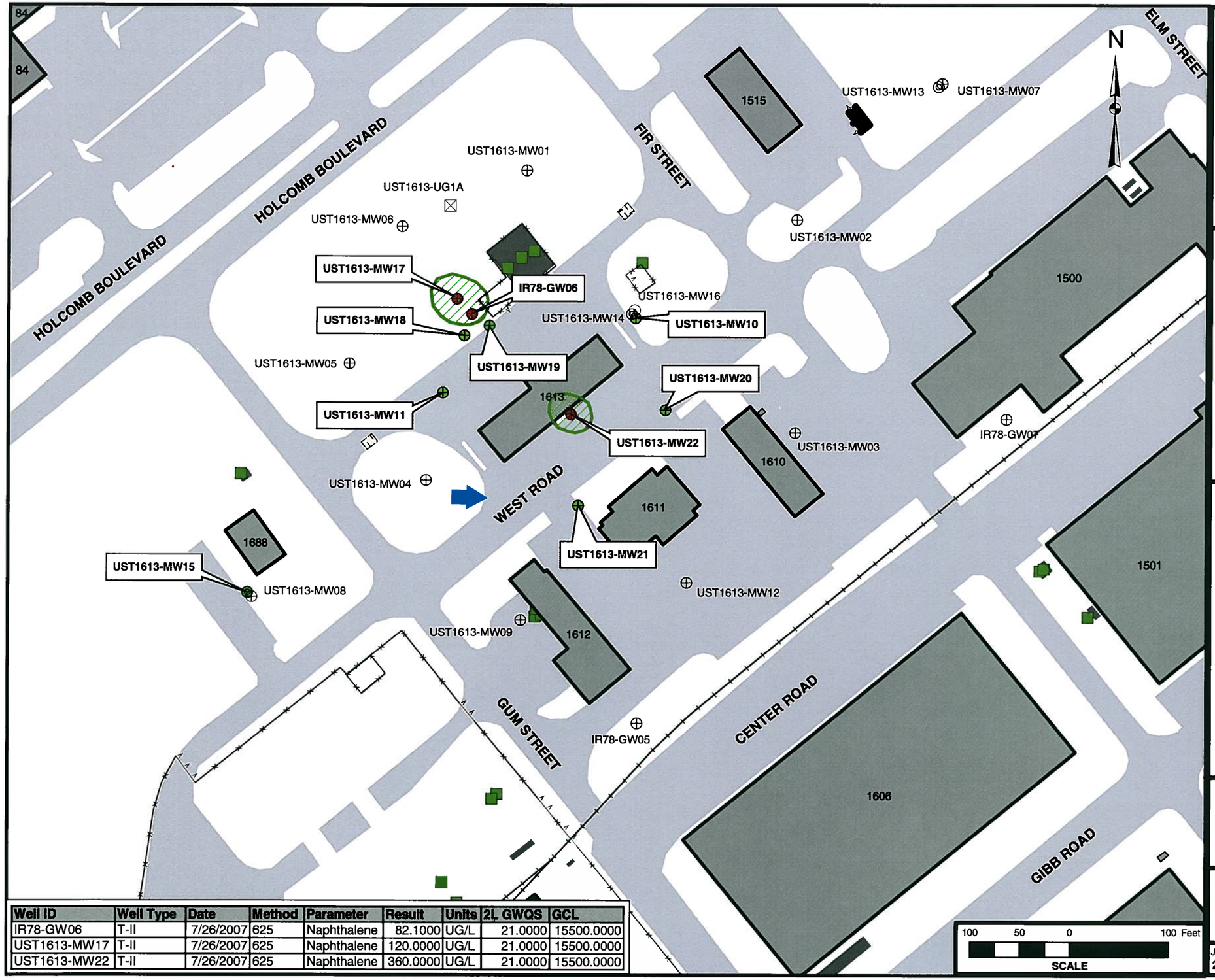
SITE 1613
EPA METHOD 602 COLORIMETRY AND PLUME IN EXCESS OF 2L THIRD QUARTER 2007

FIGURE **17.3**

Job No.:	Date:	Scale:	Drawn By:	Checked By:
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CALENDAR YEAR 2007

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LEGEND

Monitoring Wells
- Type I
- Type II
- Type III
- Pumping Well
- Unknown Well Type
- Water Supply Wells
- Above Ground Storage Tank
- Underground Storage Tank
- Railroad Tracks

Walls and Fences
- FENCE
- GATE
- WALL

Analytical Results
- Free Product Detected
- 2L Non-Compliant
- 2L Compliant
- EPA 625 Plume
- Buildings and Structures
- Demolished Structures
- Oil/Water Separators
- Slabs
- Roads
- Driveways
- Parking Lots
- Surface Water Bodies
- Creeks and Streams
- Historical Groundwater Flow Direction

Vegetation Cover
- Forestland
- Scrubland
- Wetland

Airfield Pavement
- HELIPAD
- RAMP
- RUNWAY
- SHLDR_OVERRUN
- TAXIWAY

NOTES

1. 2L Standard refers to North Carolina Groundwater Quality Standard 15A NCAC 2L.0202.
2. GCL refers to Gross Contaminant Level as defined in "Guidelines for the Assessment and Corrective Action" North Carolina Underground Storage Tank Section, effective July 1, 2001.
3. A 2L Standard of "0.00" implies a standard has not yet been established. According to NCAC T15:02L, any compound found above laboratory detection limits is considered noncompliant unless otherwise specified by the NCDENR.

Well ID	Well Type	Date	Method	Parameter	Result	Units	2L GWQS	GCL
IR78-GW06	T-II	7/26/2007	625	Naphthalene	82.1000	UG/L	21.0000	15500.0000
UST1613-MW17	T-II	7/26/2007	625	Naphthalene	120.0000	UG/L	21.0000	15500.0000
UST1613-MW22	T-II	7/26/2007	625	Naphthalene	360.0000	UG/L	21.0000	15500.0000

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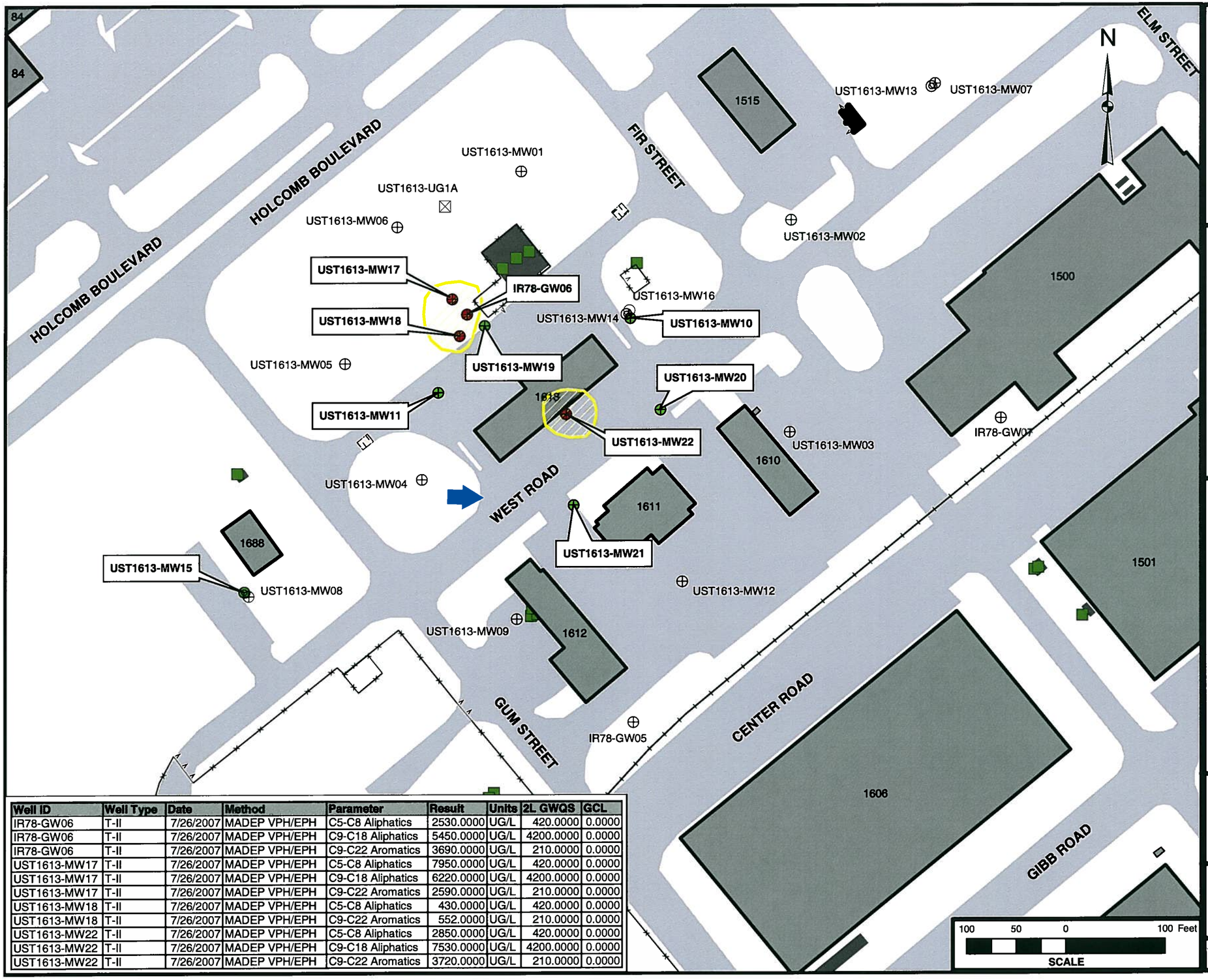
SITE 1613
EPA METHOD 625 COLORIMETRY AND PLUME IN EXCESS OF 2L THIRD QUARTER 2007

FIGURE 17.4

Job No.:	Date:	Scale:	Drawn By:	Checked By:
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MCB CAMP LEJEUNE
UST MANAGEMENT PROGRAM
CALENDAR YEAR 2007

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LEGEND

Monitoring Wells
- Type I
- Type II
- Type III
- Pumping Well
- Unknown Well Type
- Water Supply Wells
- Above Ground Storage Tank
- Underground Storage Tank
- Railroad Tracks

Walls and Fences
- FENCE
- GATE
- WALL

Analytical Results
- Free Product Detected
- 2L Non-Compliant
- 2L Compliant
- MADEP Plume

Buildings and Structures
- Demolished Structures
- Oil/Water Separators
- Slabs
- Roads
- Driveways
- Parking Lots
- Surface Water Bodies
- Creeks and Streams
- Historical Groundwater Flow Direction

Vegetation Cover
- Forestland
- Scrubland
- Wetland

Airfield Pavement
- HELIPAD
- RAMP
- RUNWAY
- SHLDR_OVERRUN
- TAXIWAY

NOTES

1. 2L Standard refers to North Carolina Groundwater Quality Standard 15A NCAC 2L.0202.
2. GCL refers to Gross Contaminant Level as defined in "Guidelines for the Assessment and Corrective Action" North Carolina Underground Storage Tank Section, effective July 1, 2001.
3. A 2L Standard of "0.00" implies a standard has not yet been established. According to NCAC T15:02L, any compound found above laboratory detection limits is considered noncompliant unless otherwise specified by the NCDENR.

Well ID	Well Type	Date	Method	Parameter	Result	Units	2L GWQS	GCL
IR78-GW06	T-II	7/26/2007	MADEP VPH/EPH	C5-C8 Aliphatics	2530.0000	UG/L	420.0000	0.0000
IR78-GW06	T-II	7/26/2007	MADEP VPH/EPH	C9-C18 Aliphatics	5450.0000	UG/L	4200.0000	0.0000
IR78-GW06	T-II	7/26/2007	MADEP VPH/EPH	C9-C22 Aromatics	3690.0000	UG/L	210.0000	0.0000
UST1613-MW17	T-II	7/26/2007	MADEP VPH/EPH	C5-C8 Aliphatics	7950.0000	UG/L	420.0000	0.0000
UST1613-MW17	T-II	7/26/2007	MADEP VPH/EPH	C9-C18 Aliphatics	6220.0000	UG/L	4200.0000	0.0000
UST1613-MW17	T-II	7/26/2007	MADEP VPH/EPH	C9-C22 Aromatics	2590.0000	UG/L	210.0000	0.0000
UST1613-MW18	T-II	7/26/2007	MADEP VPH/EPH	C5-C8 Aliphatics	430.0000	UG/L	420.0000	0.0000
UST1613-MW18	T-II	7/26/2007	MADEP VPH/EPH	C9-C22 Aromatics	552.0000	UG/L	210.0000	0.0000
UST1613-MW22	T-II	7/26/2007	MADEP VPH/EPH	C5-C8 Aliphatics	2850.0000	UG/L	420.0000	0.0000
UST1613-MW22	T-II	7/26/2007	MADEP VPH/EPH	C9-C18 Aliphatics	7530.0000	UG/L	4200.0000	0.0000
UST1613-MW22	T-II	7/26/2007	MADEP VPH/EPH	C9-C22 Aromatics	3720.0000	UG/L	210.0000	0.0000

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SITE 1613
MADEP VPH/EPH COLORIMETRY AND PLUME IN EXCESS OF 2L THIRD QUARTER 2007

FIGURE **17.5**

Job No.:	Date:	Scale:	Drawn By:	Checked By:
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SECTION 18.0

OF THE

ANNUAL MANAGEMENT REPORT
MCB CAMP LEJEUNE UST MANAGEMENT PROGRAM

MONITORING EVENT:

YEAR 2007
(JANUARY – DECEMBER 2007)

SITE-SPECIFIC MONITORING REPORT
FOR

SITE BB-190

NCDENR INCIDENT NO. 22793

18.0 EXECUTIVE SUMMARY
SITE BB-190

18.1 Site Information

18.1.1 Site Location: MCB Camp Lejeune, Courthouse Bay
18.1.2 Incident Number(s): 22793
18.1.3 UTM Coordinates (WGS84) (Meters): 283234.85 Easting, 3829175.10 Northing
18.1.4 Risk Classification: High
18.1.5 Land Use Classification: Residential
18.1.6 Source Type(s): Former 500-gallon diesel UST

18.2 Monitoring Event Information

18.2.1 Sampling Performed By: Sovereign
18.2.2 Date(s) of This Monitoring Event: May 2006 and February 2007
18.2.3 Date(s) of Previous Monitoring Event: July 2005
18.2.4 Reason(s) for This Monitoring Event: Track migration and attenuation of dissolved-phase plume.
18.2.5 Site Monitoring Status at Time of This Event: Annual sampling of select on-site monitoring wells per EPA Methods 602, 625 and MADEP VPH/EPH.

18.3 Groundwater Hydraulics

18.3.1 Hydraulic Conductivity: 17.3 feet/day
18.3.2 Effective Porosity: 0.25
18.3.3 Hydraulic Gradient: 0.0062 to 0.017
18.3.4 Average Linear Groundwater Flow Velocity: 0.16 feet/day
18.3.5 Groundwater Flow Direction(s): West-southwest
18.3.6 Range of Measured Water Table Elevations: See Table 18.1
18.3.7 Significant Changes from Previously Reported Data: None

18.4 Free Product Plume

18.4.1 Free Product Present?: No
18.4.2 Free Product Thickness Measured: Not Applicable
18.4.3 Plume Size and Location: Not Applicable
18.4.4 Free Product Removed from Site This Period: Not Applicable
18.4.5 Significant Changes from Previously Reported Data: None. See Figures 18.1A and 18.1B

18.5 Dissolved-Phase Plume

18.5.1 Plume Concentrations: See Tables 18.2 through 18.4
18.5.2 Plume Size and Location: See Figures 18.2 through 18.4
18.5.3 Significant Changes from Previously Reported Data: Please note, groundwater samples were collected in February 2007 however; CATLIN has not received the analytical data from this groundwater sampling event. Therefore, only the groundwater sample analytical results from May 2006 are discussed as follows:

EPA Method 602

During the current sampling event (May 2006), no EPA Method 602 contaminant concentrations were in excess of the 2L GWQSs. See Figure 18.2.

EPA Method 625

During the current sampling event (May 2006), monitoring wells USTBB190-MW07 and USTBB190-MW16 contained Naphthalene concentrations of 99.9 ug/L and 151 ug/L , respectively, both of which are in excess of the 2L GWQS of 21 ug/L for this compound. See Figure 18.3.

MADEP VPH/EPH

During the current sampling event (May 2006), the C5-C8 Aliphatics fraction was detected in monitoring wells USTBB190-MW07 and USTBB190-MW16 at concentrations of 430 ug/L and 740 ug/L, respectively, both of which are in excess of the 2L GWQS of 420 ug/L for this compound. Also, the C9-C22 Aromatics fraction was detected in monitoring wells USTBB190-MW07 and USTBB190-MW16 at concentrations of 1,640 ug/L and 3,510 ug/L, respectively, both of which are in excess of the 2L GWQS for this compound of 210 ug/L. See Figure 18.4.

18.6 Potential Receptors

18.6.1 Contaminated Water Supply Well(s)?: None
18.6.2 Potable Water Supply Well Within 1,000 Feet of Source Area?: Yes, PSW-BB47
18.6.3 Any Water Supply Well Within 250 Feet of Source Area?: Yes, PSW-BB47
18.6.4 Surface Water Body Within 500 Feet?: No
18.6.5 Past Evidence of Vapors?: No
18.6.6 Significant Changes from Previously Reported Data?: None

18.7 Remediation

18.7.1 Status: Shutdown
18.7.2 Type: SVE and Biosparge
18.7.3 Progress: Complete
18.7.4 Construction Contractor: J.A. Jones
18.7.5 Operating Contractor: Sovereign

18.8 Observations and Comments

As previously stated, only the May 2006 sampling data is presented and discussed in this report as the February 2007 analytical data was not provided to CATLIN at the time of writing this report.

Based on the May 2006 analytical data and a review of the 2007 AMR completed by Sovereign, CATLIN recommends groundwater at the site continue to be sampled on an annual basis per EPA Methods 602, 625 and MADEP VPH/EPH. See the figure in Appendix A for the proposed monitoring schedule.

TABLE 18.1
SITE BB-190
FIELD MEASUREMENTS - JULY 2005 TO DECEMBER 2007

Well No.	Type	TOC	Date	DTW	Product Thickness	Corrected GWT Elevation
USTBB190-MW01	T-II	12.91	5/10/2006	6.86	0.00	6.05
USTBB190-MW01	T-II	12.91	2/5/2007		0.00	
USTBB190-MW02	T-II	11.46	5/10/2006	4.60	0.00	6.86
USTBB190-MW02	T-II	11.46	2/5/2007	3.65	0.00	7.81
USTBB190-MW03	T-II	13.64	5/10/2006	7.64	0.00	6.00
USTBB190-MW03	T-II	13.64	2/5/2007	7.00	0.00	6.64
USTBB190-MW04	T-II	13.57	5/10/2006	6.55	0.00	7.02
USTBB190-MW04	T-II	13.57	2/5/2007	5.50	0.00	8.07
USTBB190-MW05	T-II	11.61	5/10/2006	6.75	0.00	4.86
USTBB190-MW05	T-II	11.61	2/5/2007	5.92	0.00	5.69
USTBB190-MW06	T-II	9.85	5/10/2006	5.22	0.00	4.63
USTBB190-MW06	T-II	9.85	2/5/2007	4.46	0.00	5.39
USTBB190-MW07	T-II	10.88	5/10/2006	4.75	0.00	6.13
USTBB190-MW07	T-II	10.88	2/5/2007	4.17	0.00	6.71
USTBB190-MW08	T-II	13.63	5/10/2006	7.16	0.00	6.47
USTBB190-MW08	T-II	13.63	2/5/2007	6.18	0.00	7.45
USTBB190-MW09	T-II	13.48	5/10/2006	6.42	0.00	7.06
USTBB190-MW09	T-II	13.48	2/5/2007	5.25	0.00	8.23
USTBB190-MW10	T-II	9.99	5/10/2006	5.27	0.00	4.72
USTBB190-MW10	T-II	9.99	2/5/2007	4.70	0.00	5.29
USTBB190-MW11	T-II	12.83	5/10/2006	8.38	0.00	4.45
USTBB190-MW11	T-II	12.83	2/5/2007	7.55	0.00	5.28

Notes:
1. T-II = Type II monitoring well
   T-III = Type III monitoring well
   RW = Recovery well
2. TOC = Top of casing elevation in feet relative to Mean Sea Level.
3. DTW = Depth to water (in feet) from top of well casing.
4. Product thickness is measured in feet.
5. GWT = Groundwater Table
6. A zero ("0.00") in the product thickness column indicates no measureable thickness.
7. GWT Elevation corrected for measurable free product, if present.

Well No.	Type	TOC	Date	DTW	Product Thickness	Corrected GWT Elevation
USTBB190-MW12	T-II	12.18	5/10/2006	4.82	0.00	7.36
USTBB190-MW12	T-II	12.18	2/5/2007	3.68	0.00	8.50
USTBB190-MW13	T-III	13.39	5/10/2006	6.55	0.00	6.84
USTBB190-MW13	T-III	13.39	2/5/2007	13.20	0.00	0.19
USTBB190-MW14	T-III	9.87	5/10/2006	8.35	0.00	1.52
USTBB190-MW14	T-III	9.87	2/5/2007	8.10	0.00	1.77
USTBB190-MW15	T-III	11.13	5/10/2006	9.80	0.00	1.33
USTBB190-MW15	T-III	11.13	2/5/2007	9.25	0.00	1.88
USTBB190-MW16	RW	10.93	5/10/2006	5.65	0.00	5.28
USTBB190-MW16	RW	10.93	2/5/2007	4.95	0.00	5.98
USTBB190-MW17		10.82	5/10/2006	5.21	0.00	5.61
USTBB190-MW17		10.82	2/5/2007	4.55	0.00	6.27

Notes:
1. T-II = Type II monitoring well
   T-III = Type III monitoring well
   RW = Recovery well
2. TOC = Top of casing elevation in feet relative to Mean Sea Level.
3. DTW = Depth to water (in feet) from top of well casing.
4. Product thickness is measured in feet.
5. GWT = Groundwater Table
6. A zero ("0.00") in the product thickness column indicates no measureable thickness.
7. GWT Elevation corrected for measurable free product, if present.

TABLE 18.2

SITE BB-190

GROUNDWATER LABORATORY ANALYTICAL RESULTS - JULY 2005 TO DECEMBER 2007

EPA METHOD 602

Contaminant of Concern →			
Well ID	Date	Ethylbenzene	Total Xylenes
2L GWQS		550	530
GCL		550000	87500
USTBB190-MW01	5/10/2006	BQL	BQL
USTBB190-MW02	5/10/2006	BQL	BQL
USTBB190-MW03	5/10/2006	BQL	BQL
USTBB190-MW04	5/11/2006	BQL	BQL
USTBB190-MW05	5/11/2006	BQL	BQL
USTBB190-MW06	5/11/2006	BQL	BQL
USTBB190-MW07	5/10/2006	83.40	259.30
USTBB190-MW08	5/11/2006	BQL	BQL
USTBB190-MW09	5/11/2006	BQL	BQL
USTBB190-MW10	5/11/2006	BQL	BQL

Notes:
1. 2L GWQS = North Carolina groundwater quality standard 15A NCAC 2L .0202
2. GCL = Gross Contamination Levels for ground water as defined in "Guidelines for Assessment and Corrective Action" North Carolina Underground Storage Tank Section, effective July 1, 2001
3. All units are in ug/L (Micrograms per Liter)
4. BQL = Below Quantitaion Limits
5. A zero in the 2L GWQS row indicates the 2L Standard is equal to the laboratory detection limit
6. A zero in the GCL row indicates a GCL has not been established
7. Shaded concentrations indicate exceedance of the 2L GWQS
8. Only compounds which were detected are shown on table. All other compounds were BQL

TABLE 18.2

SITE BB-190

GROUNDWATER LABORATORY ANALYTICAL RESULTS - JULY 2005 TO DECEMBER 2007

EPA METHOD 602

Contaminant of Concern →			
Well ID	**Date**	Ethylbenzene	Total Xylenes
2L GWQS		550	530
GCL		550000	87500
USTBB190-MW11	5/11/2006	BQL	BQL
USTBB190-MW12	5/11/2006	BQL	BQL
USTBB190-MW13	5/11/2006	BQL	BQL
USTBB190-MW15	5/10/2006	BQL	BQL
USTBB190-MW16	5/10/2006	214.00	284.70
USTBB190-MW17	5/10/2006	1.29	6.14

Notes:
1. 2L GWQS = North Carolina groundwater quality standard 15A NCAC 2L .0202
2. GCL = Gross Contamination Levels for ground water as defined in "Guidelines for Assessment and Corrective Action" North Carolina Underground Storage Tank Section, effective July 1, 2001
3. All units are in ug/L (Micrograms per Liter)
4. BQL = Below Quantitaion Limits
5. A zero in the 2L GWQS row indicates the 2L Standard is equal to the laboratory detection limit
6. A zero in the GCL row indicates a GCL has not been established
7. Shaded concentrations indicate exceedance of the 2L GWQS
8. Only compounds which were detected are shown on table. All other compounds were BQL

TABLE 18.3

SITE BB-190

GROUNDWATER LABORATORY ANALYTICAL RESULTS - JULY 2005 TO DECEMBER 2007

EPA METHOD 625

Contaminant of Concern →		Acenaphthene	Fluorene	Naphthalene	Phenanthrene
Well ID	Date				
2L GWQS		80	280	21	210
GCL		2120	950	15500	410
USTBB190-MW01	5/10/2006	BQL	BQL	BQL	BQL
USTBB190-MW02	5/10/2006	4.90	2.50	BQL	BQL
USTBB190-MW03	5/10/2006	BQL	BQL	BQL	BQL
USTBB190-MW04	5/11/2006	BQL	BQL	BQL	BQL
USTBB190-MW05	5/11/2006	BQL	BQL	BQL	BQL
USTBB190-MW06	5/11/2006	BQL	BQL	BQL	BQL
USTBB190-MW07	5/10/2006	1.40	2.50	**99.90**	1.60
USTBB190-MW08	5/11/2006	8.30	4.40	BQL	1.90
USTBB190-MW09	5/11/2006	BQL	BQL	BQL	BQL
USTBB190-MW10	5/11/2006	BQL	BQL	BQL	BQL

Notes:
1. 2L GWQS = North Carolina groundwater quality standard 15A NCAC 2L .0202
2. GCL = Gross Contamination Levels for ground water as defined in "Guidelines for Assessment and Corrective Action" North Carolina Underground Storage Tank Section, effective July 1, 2001
3. All units are in ug/L (Micrograms per Liter)
4. BQL = Below Quantitaion Limits
5. A zero in the 2L GWQS row indicates the 2L Standard is equal to the laboratory detection limit
6. A zero in the GCL row indicates a GCL has not been established
7. Shaded concentrations indicate exceedance of the 2L GWQS
8. Only compounds which were detected are shown on table. All other compounds were BQL

TABLE 18.3

SITE BB-190

GROUNDWATER LABORATORY ANALYTICAL RESULTS - JULY 2005 TO DECEMBER 2007

EPA METHOD 625

Contaminant of Concern →		Acenaphthene	Fluorene	Naphthalene	Phenanthrene
Well ID	Date				
2L GWQS		80	280	21	210
GCL		2120	950	15500	410
USTBB190-MW11	5/11/2006	BQL	BQL	BQL	BQL
USTBB190-MW12	5/11/2006	5.10	1.30	3.80	BQL
USTBB190-MW13	5/11/2006	BQL	BQL	BQL	BQL
USTBB190-MW15	5/10/2006	BQL	BQL	BQL	BQL
USTBB190-MW16	5/10/2006	1.50	2.10	151.00	BQL
USTBB190-MW17	5/10/2006	BQL	BQL	BQL	BQL

Notes:
1. 2L GWQS = North Carolina groundwater quality standard 15A NCAC 2L .0202
2. GCL = Gross Contamination Levels for ground water as defined in "Guidelines for Assessment and Corrective Action" North Carolina Underground Storage Tank Section, effective July 1, 2001
3. All units are in ug/L (Micrograms per Liter)
4. BQL = Below Quantitaion Limits
5. A zero in the 2L GWQS row indicates the 2L Standard is equal to the laboratory detection limit
6. A zero in the GCL row indicates a GCL has not been established
7. Shaded concentrations indicate exceedance of the 2L GWQS
8. Only compounds which were detected are shown on table. All other compounds were BQL

TABLE 18.4

SITE BB-190

GROUNDWATER LABORATORY ANALYTICAL RESULTS - JULY 2005 TO DECEMBER 2007

MADEP VPH/EPH

Contaminant of Concern →				
Well ID	Date	C5-C8 Aliphatics	C9-C18 Aliphatics	C9-C22 Aromatics
2L GWQS		420	4200	210
GCL		0	0	0
USTBB190-MW01	5/10/2006	BQL	BQL	BQL
USTBB190-MW02	5/10/2006	BQL	BQL	BQL
USTBB190-MW03	5/10/2006	BQL	BQL	BQL
USTBB190-MW04	5/11/2006	BQL	BQL	BQL
USTBB190-MW05	5/11/2006	BQL	BQL	BQL
USTBB190-MW06	5/11/2006	BQL	BQL	BQL
USTBB190-MW07	5/10/2006	**430.00**	1000.00	**1640.00**
USTBB190-MW08	5/11/2006	BQL	BQL	BQL
USTBB190-MW09	5/11/2006	BQL	BQL	BQL
USTBB190-MW10	5/11/2006	BQL	BQL	BQL

Notes:
1. 2L GWQS = North Carolina groundwater quality standard 15A NCAC 2L .0202
2. GCL = Gross Contamination Levels for ground water as defined in "Guidelines for Assessment and Corrective Action" North Carolina Underground Storage Tank Section, effective July 1, 2001
3. All units are in ug/L (Micrograms per Liter)
4. BQL = Below Quantitaion Limits
5. A zero in the 2L GWQS row indicates the 2L Standard is equal to the laboratory detection limit
6. A zero in the GCL row indicates a GCL has not been established
7. Shaded concentrations indicate exceedance of the 2L GWQS
8. Only compounds which were detected are shown on table. All other compounds were BQL

TABLE 18.4

SITE BB-190

GROUNDWATER LABORATORY ANALYTICAL RESULTS - JULY 2005 TO DECEMBER 2007

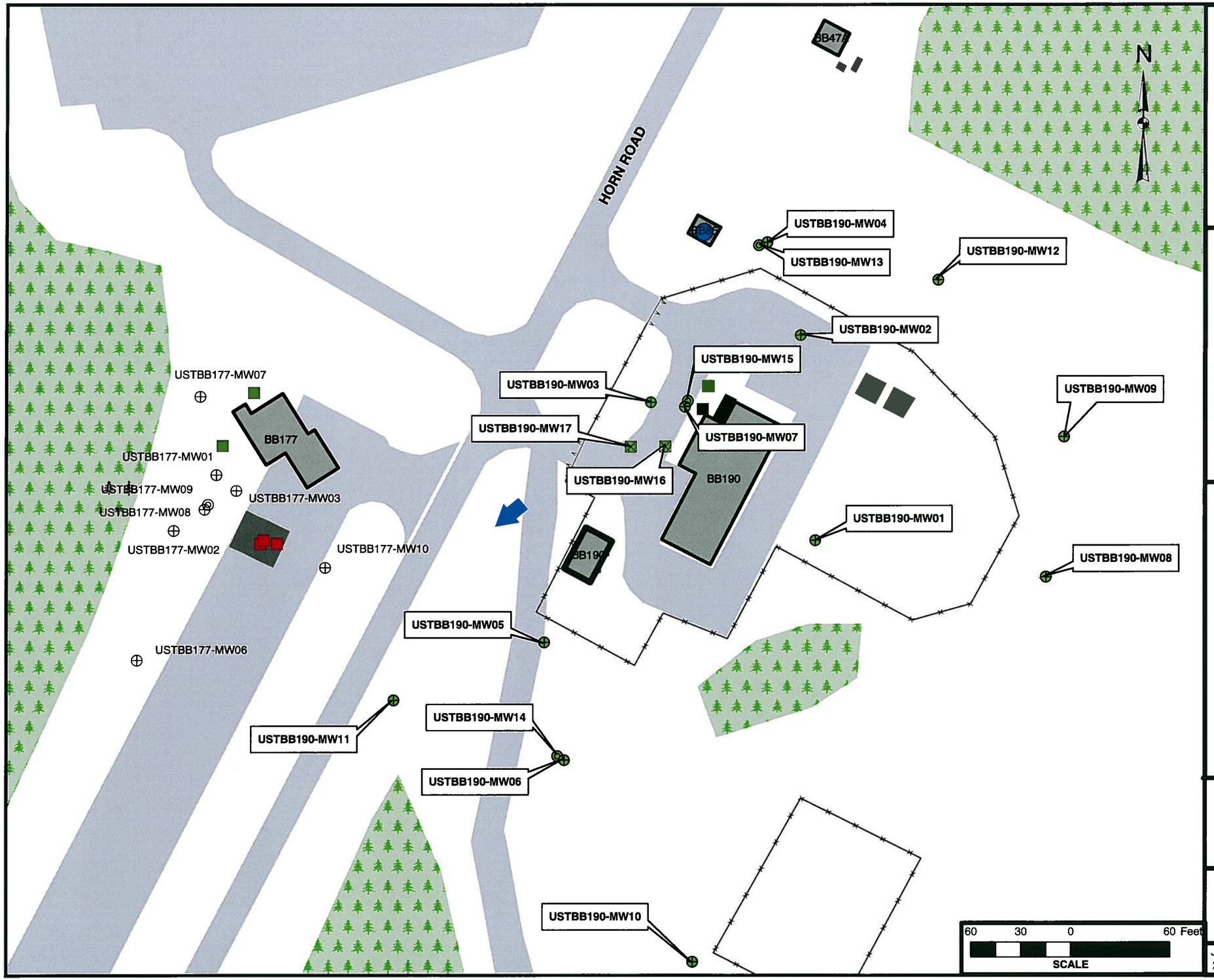
MADEP VPH/EPH

Contaminant of Concern →				
Well ID	Date	C5-C8 Aliphatics	C9-C18 Aliphatics	C9-C22 Aromatics
2L GWQS		420	4200	210
GCL		0	0	0
USTBB190-MW11	5/11/2006	BQL	BQL	BQL
USTBB190-MW12	5/11/2006	BQL	BQL	BQL
USTBB190-MW13	5/11/2006	BQL	BQL	BQL
USTBB190-MW15	5/10/2006	BQL	BQL	BQL
USTBB190-MW16	5/10/2006	740.00	1500.00	3510.00
USTBB190-MW17	5/10/2006	BQL	BQL	BQL

Notes:
1. 2L GWQS = North Carolina groundwater quality standard 15A NCAC 2L .0202
2. GCL = Gross Contamination Levels for ground water as defined in "Guidelines for Assessment and Corrective Action" North Carolina Underground Storage Tank Section, effective July 1, 2001
3. All units are in ug/L (Micrograms per Liter)
4. BQL = Below Quantitaion Limits
5. A zero in the 2L GWQS row indicates the 2L Standard is equal to the laboratory detection limit
6. A zero in the GCL row indicates a GCL has not been established
7. Shaded concentrations indicate exceedance of the 2L GWQS
8. Only compounds which were detected are shown on table. All other compounds were BQL

MCB CAMP LEJEUNE
UST MANAGEMENT PROGRAM
CALENDAR YEAR 2007

NAVFAC
Naval Facilities Engineering Command



LEGEND

Monitoring Wells
- Type I
- Type II
- Type III
- Pumping Well
- Unknown Well Type
- Water Supply Wells
- Above Ground Storage Tank
- Underground Storage Tank
- Railroad Tracks

Walls and Fences
- FENCE
- GATE
- WALL

Free Product
- Free Product Detected
- No Measurable Thickness
- Free Product Plume
- Buildings and Structures
- Demolished Structures
- Oil/Water Separators
- Slabs
- Roads
- Driveways
- Parking Lots
- Surface Water Bodies
- Creeks and Streams
- Historical Groundwater Flow Direction

Vegetation Cover
- Forestland
- Scrubland
- Wetland

Airfield Pavement
- HELIPAD
- RAMP
- RUNWAY
- SHLDR_OVERRUN
- TAXIWAY

NOTES

1. Free product was not detected at this site in any of the wells gauged during this monitoring event.

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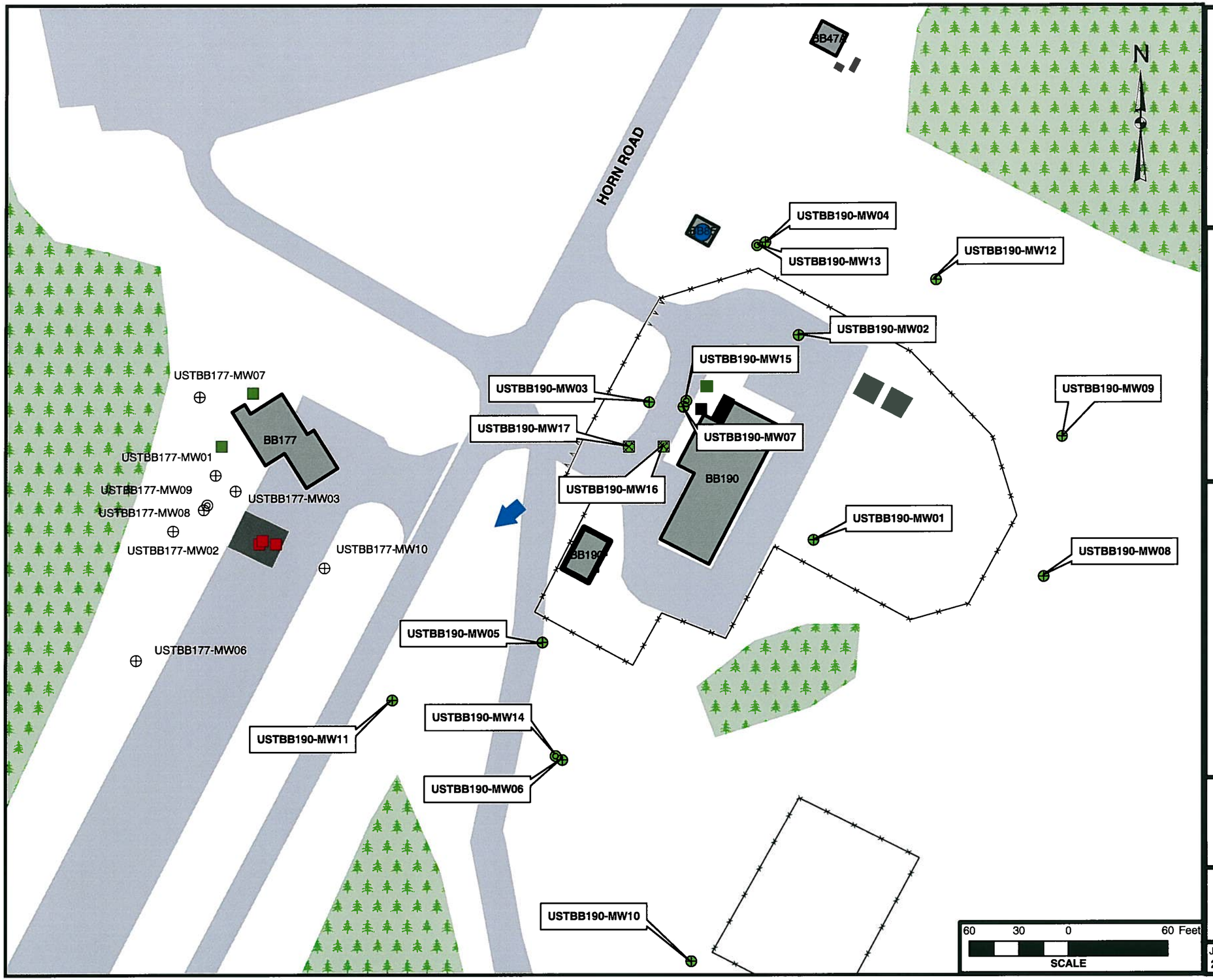
SITE BB-190
FREE PRODUCT PLUME MAP
SECOND QUARTER 2006

FIGURE
18.1A

Job No.:	Date:	Scale:	Drawn By:	Checked By:
207-002	DEC 2007	AS SHOWN	SAC	MEM

MCB CAMP LEJEUNE
UST MANAGEMENT PROGRAM
CALENDAR YEAR 2007

NAVFAC
Naval Facilities Engineering Command



LEGEND

Monitoring Wells
- Type I
- Type II
- Type III
- Pumping Well
- Unknown Well Type
- Water Supply Wells
- Above Ground Storage Tank
- Underground Storage Tank
- Railroad Tracks

Walls and Fences
- FENCE
- GATE
- WALL

Free Product
- Free Product Detected
- No Measurable Thickness
- Free Product Plume
- Buildings and Structures
- Demolished Structures
- Oil/Water Separators
- Slabs
- Roads
- Driveways
- Parking Lots
- Surface Water Bodies
- Creeks and Streams
- Historical Groundwater Flow Direction

Vegetation Cover
- Forestland
- Scrubland
- Wetland

Airfield Pavement
- HELIPAD
- RAMP
- RUNWAY
- SHLDR_OVERRUN
- TAXIWAY

NOTES

1. Free product was not detected at this site in any of the wells gauged during this monitoring event.

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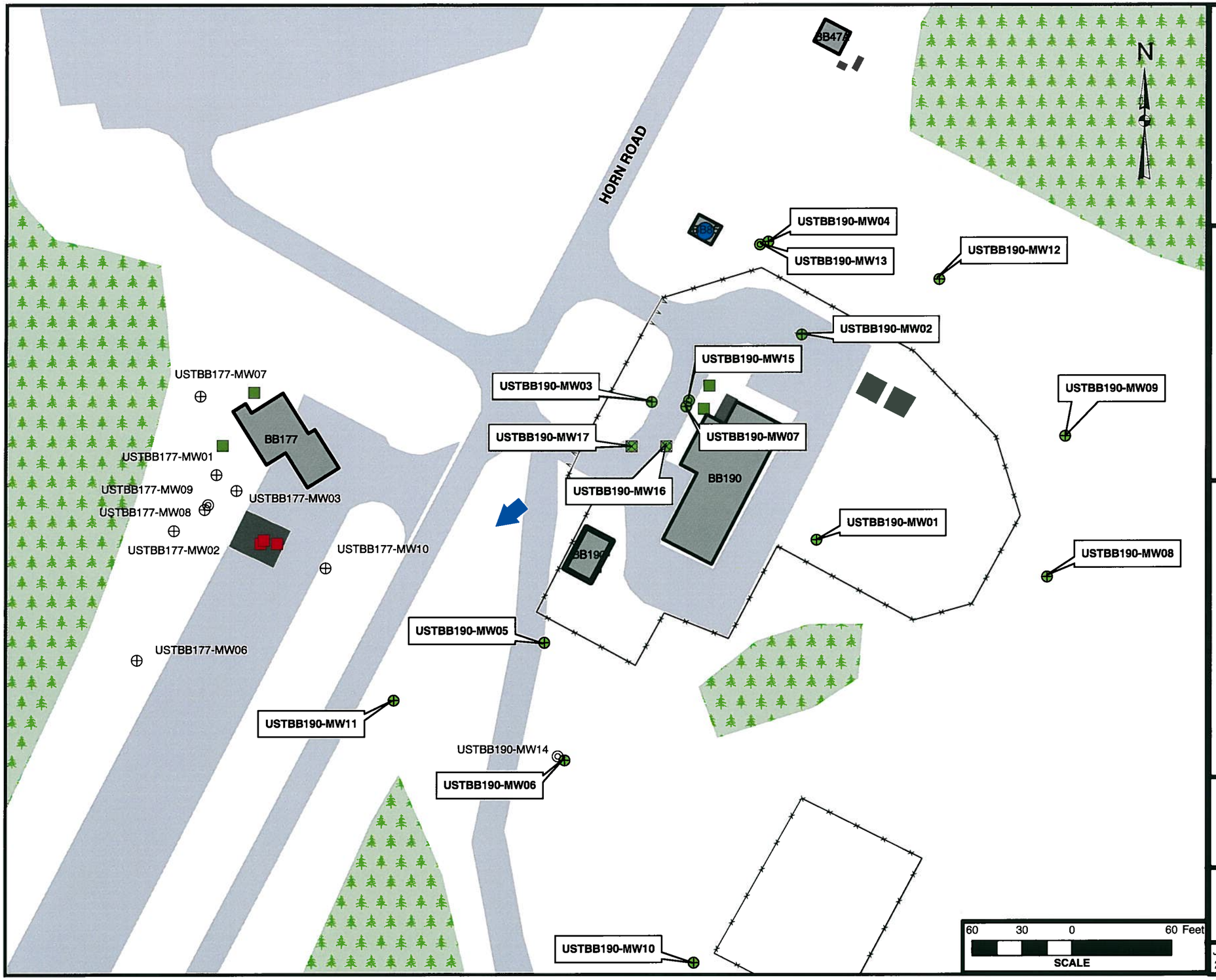
SITE BB-190
FREE PRODUCT PLUME MAP
FIRST QUARTER 2007

FIGURE **18.1B**

Job No.:	Date:	Scale:	Drawn By:	Checked By:
207-002	DEC 2007	AS SHOWN	SAC	MEM

MCB CAMP LEJEUNE
UST MANAGEMENT PROGRAM
CALENDAR YEAR 2007

NAVFAC
Naval Facilities Engineering Command



LEGEND

Monitoring Wells
- Type I
- Type II
- Type III
- Pumping Well
- Unknown Well Type
- Water Supply Wells
- Above Ground Storage Tank
- Underground Storage Tank
- Railroad Tracks

Walls and Fences
- FENCE
- GATE
- WALL

Analytical Results
- Free Product Detected
- 2L Non-Compliant
- 2L Compliant
- EPA 602 Plume
- Buildings and Structures
- Demolished Structures
- Oil/Water Separators
- Slabs
- Roads
- Driveways
- Parking Lots
- Surface Water Bodies
- Creeks and Streams
- Historical Groundwater Flow Direction

Vegetation Cover
- Forestland
- Scrubland
- Wetland

Airfield Pavement
- HELIPAD
- RAMP
- RUNWAY
- SHLDR_OVERRUN
- TAXIWAY

NOTES

1. No EPA Method 602 compounds were detected above the 2L GWQS for any wells sampled during this monitoring event.

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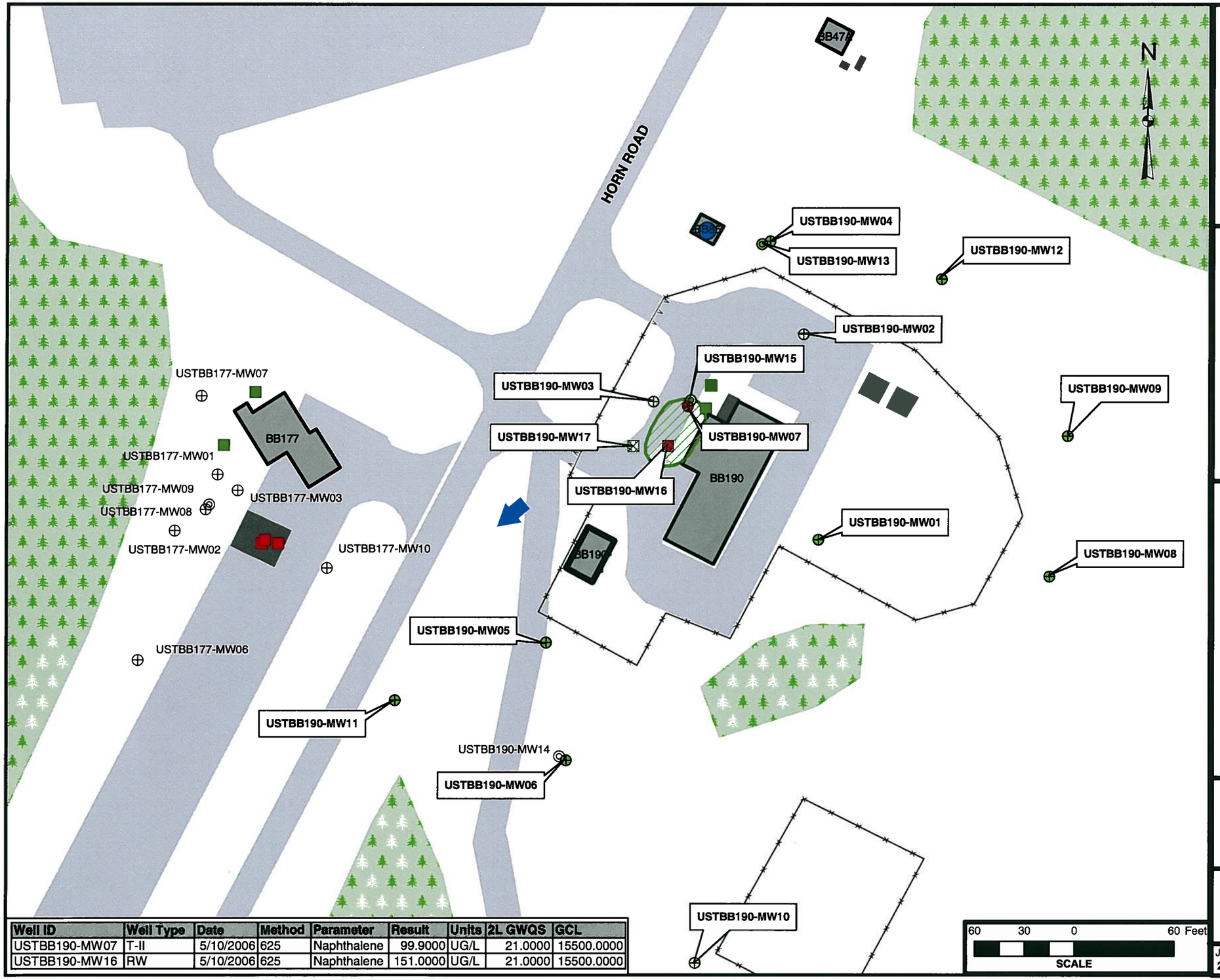
SITE BB-190
EPA METHOD 602 COLORIMETRY AND PLUME IN EXCESS OF 2L SECOND QUARTER 2006

FIGURE **18.2**

Job No.:	Date:	Scale:	Drawn By:	Checked By:
207-002	DEC 2007	AS SHOWN	SAC	MEM

MCB CAMP LEJEUNE
UST MANAGEMENT PROGRAM
CALENDAR YEAR 2007

NAVFAC
Naval Facilities Engineering Command



Well ID	Well Type	Date	Method	Parameter	Result	Units	2L GWQS	GCL
USTBB190-MW07	T-II	5/10/2006	625	Naphthalene	99.9000	UG/L	21.0000	15500.0000
USTBB190-MW16	RW	5/10/2006	625	Naphthalene	151.0000	UG/L	21.0000	15500.0000

60 30 0 60 Feet
SCALE

LEGEND

Monitoring Wells
- Type I
- Type II
- Type III
- Pumping Well
- Unknown Well Type
- Water Supply Wells
- Above Ground Storage Tank
- Underground Storage Tank
- Railroad Tracks

Walls and Fences
- FENCE
- GATE
- WALL

Analytical Results
- Free Product Detected
- 2L Non-Compliant
- 2L Compliant
- EPA 625 Plume

Buildings and Structures
- Demolished Structures
- Oil/Water Separators
- Slabs
- Roads
- Driveways
- Parking Lots
- Surface Water Bodies
- Creeks and Streams
- Historical Groundwater Flow Direction

Vegetation Cover
- Forestland
- Scrubland
- Wetland

Airfield Pavement
- HELIPAD
- RAMP
- RUNWAY
- SHLDR_OVERRUN
- TAXIWAY

NOTES

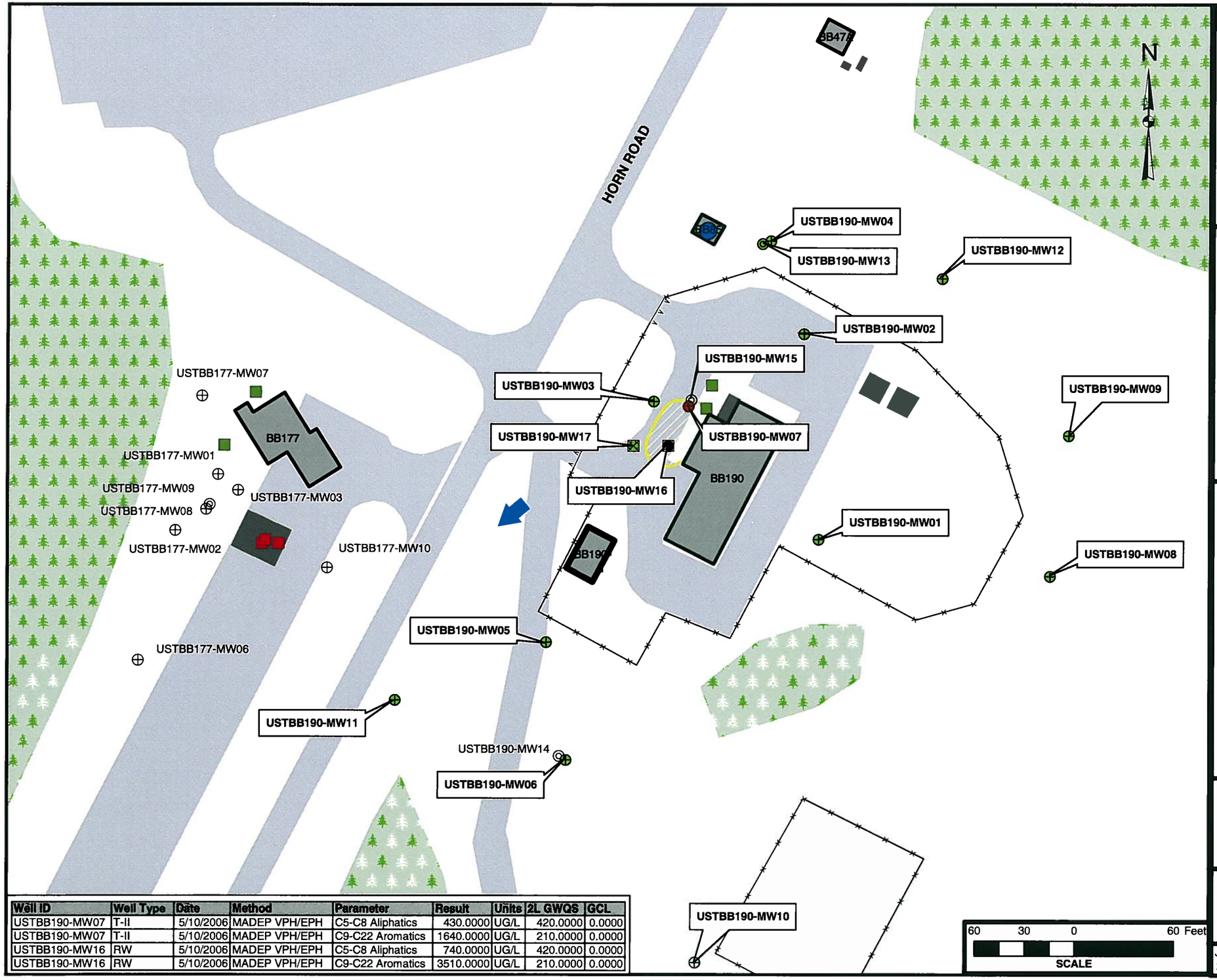
1. 2L Standard refers to North Carolina Groundwater Quality Standard 15A NCAC 2L.0202.
2. GCL refers to Gross Contaminant Level as defined in Table 7 of "Groundwater Section Guidelines for the Investigation and Remediation of Soil and Ground Water", Volume II, dated January 2, 1998.
3. A 2L Standard of "0.00" implies a standard has not yet been established. According to NCAC T15:02L, any compound found above laboratory detection limits is considered noncompliant unless otherwise specified by the NCDENR.

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SITE BB-190
EPA METHOD 625 COLORIMETRY AND PLUME IN EXCESS OF 2L SECOND QUARTER 2006

FIGURE 18.3

Job No.:	Date:	Scale:	Drawn By:	Checked By:
207-002	DEC 2007	AS SHOWN	SAC	MEM



Well ID	Well Type	Date	Method	Parameter	Result	Units	2L GWQS	GCL
USTBB190-MW07	T-II	5/10/2006	MADEP VPH/EPH	C5-C8 Aliphatics	430.0000	UG/L	420.0000	0.0000
USTBB190-MW07	T-II	5/10/2006	MADEP VPH/EPH	C9-C22 Aromatics	1640.0000	UG/L	210.0000	0.0000
USTBB190-MW16	RW	5/10/2006	MADEP VPH/EPH	C5-C8 Aliphatics	740.0000	UG/L	420.0000	0.0000
USTBB190-MW16	RW	5/10/2006	MADEP VPH/EPH	C9-C22 Aromatics	3510.0000	UG/L	210.0000	0.0000

MCB CAMP LEJEUNE
UST MANAGEMENT PROGRAM
CALENDAR YEAR 2007

NAVFAC
Naval Facilities Engineering Command

LEGEND

Monitoring Wells
- Type I
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- Type III
- Pumping Well
- Unknown Well Type
- Water Supply Wells
- Above Ground Storage Tank
- Underground Storage Tank
- Railroad Tracks

Walls and Fences
- FENCE
- GATE
- WALL

Analytical Results
- Free Product Detected
- 2L Non-Compliant
- 2L Compliant
- MADEP Plume
- Buildings and Structures
- Demolished Structures
- Oil/Water Separators
- Slabs
- Roads
- Driveways
- Parking Lots
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- TAXIWAY

NOTES

1. 2L Standard refers to North Carolina Groundwater Quality Standard 15A NCAC 2L.0202.
2. GCL refers to Gross Contaminant Level as defined in Table 7 of "Groundwater Section Guidelines for the Investigation and Remediation of Soil and Ground Water", Volume II, dated January 2, 1998.
3. A 2L Standard of "0.00" implies a standard has not yet been established. According to NCAC T15:02L, any compound found above laboratory detection limits is considered noncompliant unless otherwise specified by the NCDENR.

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SITE BB-190
MADEP VPH/EPH COLORIMETRY AND PLUME IN EXCESS OF 2L SECOND QUARTER 2006

FIGURE **18.4**

Job No.:	Date:	Scale:	Drawn By:	Checked By:
207-002	DEC 2007	AS SHOWN	SAC	MEM

SECTION 19.0

OF THE

ANNUAL MANAGEMENT REPORT
MCB CAMP LEJEUNE UST MANAGEMENT PROGRAM

MONITORING EVENT:

YEAR 2007
(JANUARY – DECEMBER 2007)

SITE-SPECIFIC MONITORING REPORT
FOR

SITE BB-293

NCDENR INCIDENT NO. 32049

19.0 EXECUTIVE SUMMARY
SITE BB-293

19.1 Site Information

19.1.1 Site Location: MCB Camp Lejeune
19.1.2 Incident Number(s): 32049
19.1.3 UTM Coordinates (WGS84) (Meters): 283347.81 Easting, 3828853.69 Northing
19.1.4 Risk Classification: Low
19.1.5 Land Use Classification: Industrial/Commercial
19.1.6 Source Type(s): Waste Oil

19.2 Monitoring Event Information

19.2.1 Sampling Performed By: Sovereign
19.2.2 Date(s) of This Monitoring Event: November 2006
19.2.3 Date(s) of Previous Monitoring Event: October 2005
19.2.4 Reason(s) for This Monitoring Event: Track migration and attenuation of dissolved-phase plume
19.2.5 Site Monitoring Status at Time of This Event: Annual sampling of six wells on-site wells per EPA Methods 6210D, 625, 6010B and MADEP VPH/EPH.

19.3 Groundwater Hydraulics

19.3.1 Hydraulic Conductivity: 29.3 ft/day
19.3.2 Effective Porosity: 0.20
19.3.3 Hydraulic Gradient: 0.0020 to 0.023
19.3.4 Average Linear Groundwater Flow Velocity: 0.29 to 3.4 ft/day
19.3.5 Groundwater Flow Direction(s): West-southwest
19.3.6 Range of Measured Water Table Elevations: See Table 19.1
19.3.7 Significant Changes from Previously Reported Data: None

19.4 Free Product Plume

19.4.1 Free Product Present?: No
19.4.2 Free Product Thickness Measured: Not Applicable
19.4.3 Plume Size and Location: Not Applicable
19.4.4 Free Product Removed from Site This Period: Not Applicable
19.4.5 Significant Changes from Previously Reported Data: None. See Figure 19.1.

19.5 Dissolved-Phase Plume

19.5.1 Plume Concentrations: See Tables 19.2 through 19.5
19.5.2 Plume Size and Location: See Figures 19.2 through 19.5
19.5.3 Significant Changes from Previously Reported Data: The current groundwater sample analytical results as compared to the October 2005 analytical results are discussed as follows:

EPA Method 6210D

The analytical data collected during the October 2005 sampling event revealed 4-Isopropyltoluene at concentrations above the 2L GWQS in monitoring well USTBB293-MW04. 4-Isopropyltoluene was not detected in this monitoring well during the current sampling event (November 2006); however, this compound was detected in monitoring well USTBB293-MW05 during the current sampling event (November 2006) at concentrations in excess of the 2L GWQS. Please note, there is no established 2L GWQS for 4-Isopropyltoluene, therefore any detection is considered in exceedance of the 2L GWQS. During the current sampling event, Dibromochloromethane was detected at concentrations of 0.55 ug/L and 0.75 ug/L in monitoring wells USTBB298-MW01 and USTBB293-MW02, respectively. Both of these concentrations were above the established 2L GWQS of 0.41 ug/L for this compound. All other EPA Method 6210D compounds were either detected at concentrations below the 2L GWQS or below the laboratory MDLs. See Figure 19.2.

EPA Method 625

There are no significant changes from the previously reported data as no EPA Method 625 compounds were detected above the corresponding 2L GWQSs.

EPA Method 6010B/6020

There are no significant changes from the previously reported data as no EPA Method 6010B/6020 compounds were detected above the corresponding 2L GWQSs.

MADEP VPH/EPH

There are no significant changes from the previously reported data as no EPA Method 625 compounds were detected above the corresponding 2L GWQSs.

19.6 Potential Receptors

19.6.1 Contaminated Water Supply Well(s)?: None
19.6.2 Potable Water Supply Well Within 1,000 Feet of Source Area?: No
19.6.3 Any Water Supply Well Within 250 Feet of Source Area?: Yes, on-site approximately 120 feet from former UST basin.
19.6.4 Surface Water Body Within 500 Feet?: No
19.6.5 Past Evidence of Vapors?: No
19.6.6 Significant Changes from Previously Reported Data?: None

19.7 Remediation

19.7.1 Status: Complete
19.7.2 Type: Natural Attenuation
19.7.3 Progress: Complete
19.7.4 Construction Contractor: Not Applicable
19.7.5 Operating Contractor: Not Applicable

19.8 Observations and Comments

After reviewing the November 2006 analytical data the NCDENR granted NFA for the subject site on July 3, 2007.

The on-site monitoring wells were abandoned in September 2007 and a copy of these abandonment records was sent to the NCDENR.

TABLE 19.1
SITE BB-293
FIELD MEASUREMENTS - JULY 2005 TO DECEMBER 2007

Well No.	Type	TOC	Date	DTW	Product Thickness	Corrected GWT Elevation
USTBB293-MW01	T-III	8.44	10/18/2005	3.90	0.00	4.54
USTBB293-MW01	T-III	8.44	11/27/2006	4.22	0.00	4.22
USTBB293-MW02	T-II	7.84	10/18/2005	2.05	0.00	5.79
USTBB293-MW02	T-II	7.84	11/27/2006	1.92	0.00	5.92
USTBB293-MW03	T-II	8.32	10/18/2005	2.93	0.00	5.39
USTBB293-MW03	T-II	8.32	11/27/2006	2.53	0.00	5.79
USTBB293-MW04	T-II	8.30	10/18/2005	2.43	0.00	5.87
USTBB293-MW04	T-II	8.30	11/27/2006	2.20	0.00	6.10
USTBB293-MW05	T-II	10.69	11/27/2006	3.75	0.00	6.94
USTBB293-MW06	T-II	8.40	10/18/2005	2.89	0.00	5.51
USTBB293-MW06	T-II	8.40	11/27/2006	2.58	0.00	5.82

Notes:
1. T-II = Type II monitoring well
   T-III = Type III monitoring well
   RW = Recovery well
2. TOC = Top of casing elevation in feet relative to Mean Sea Level.
3. DTW = Depth to water (in feet) from top of well casing.
4. Product thickness is measured in feet.
5. GWT = Groundwater Table
6. A zero ("0.00") in the product thickness column indicates no measureable thickness.
7. GWT Elevation corrected for measurable free product, if present.

TABLE 19.2

SITE BB-293

GROUNDWATER LABORATORY ANALYTICAL RESULTS - JULY 2005 TO DECEMBER 2007

EPA METHOD 6210D

Contaminant of Concern →		1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	Isopropyltoluene-4	Benzene	Bromoform	Chloroform	Dibromochloromethane	Ethylbenzene	Isopropylbenzene	Methylene chloride	n-Propyl benzene	sec-Butylbenzene	Toluene	Total Xylenes	Xylenes (total)
Well ID	Date															
2L GWQS		350	350	0	1	4.43	70	0.41	550	70	4.6	70	70	1000	530	530
GCL		28500	25000	0	5000	0	70000	0	550000	25000	4600	30000	8500	257500	87500	87500
USTBB293-MW01	10/18/2005	0.25	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	0.42	BQL	0.76
USTBB293-MW01	11/27/2006	BQL	BQL	BQL	BQL	0.55	BQL	**0.55**	0.23	BQL	1.52	BQL	BQL	1.29	0.54	BQL
USTBB293-MW02	10/18/2005	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	0.31	BQL	0.40
USTBB293-MW02	11/27/2006	BQL	BQL	BQL	BQL	0.93	BQL	**0.75**	BQL	BQL	1.64	BQL	BQL	0.82	BQL	BQL
USTBB293-MW03	10/18/2005	BQL	BQL	BQL	BQL	BQL	3.65	BQL	BQL	BQL	BQL	BQL	BQL	0.23	BQL	BQL
USTBB293-MW03	11/27/2006	BQL	BQL	BQL	BQL	0.68	0.71	0.33	BQL	BQL	1.72	BQL	BQL	0.78	BQL	BQL
USTBB293-MW04	10/18/2005	BQL	BQL	**0.23**	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	0.24	BQL	BQL
USTBB293-MW04	11/27/2006	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	1.55	BQL	BQL	1.02	BQL	BQL
USTBB293-MW05	11/27/2006	1.12	0.21	**0.62**	BQL	BQL	1.93	BQL	0.45	0.31	0.32	0.58	0.61	1.00	BQL	BQL
USTBB293-MW06	10/18/2005	BQL	BQL	BQL	BQL	BQL	0.20	BQL	BQL	BQL	BQL	BQL	BQL	0.21	BQL	BQL
USTBB293-MW06	11/27/2006	BQL	BQL	BQL	0.19	0.64	BQL	0.32	0.22	BQL	1.26	BQL	BQL	1.50	0.40	BQL

Notes:
1. 2L GWQS = North Carolina groundwater quality standard 15A NCAC 2L .0202
2. GCL = Gross Contamination Levels for ground water as defined in "Guidelines for Assessment and Corrective Action" North Carolina Underground Storage Tank Section, effective July 1, 2001
3. All units are in ug/L (Micrograms per Liter)
4. BQL = Below Quantitaion Limits
5. A zero in the 2L GWQS row indicates the 2L Standard is equal to the laboratory detection limit
6. A zero in the GCL row indicates a GCL has not been established
7. Shaded concentrations indicate exceedance of the 2L GWQS
8. Only compounds which were detected are shown on table. All other compounds were BQL

TABLE 19.3

SITE BB-293

GROUNDWATER LABORATORY ANALYTICAL RESULTS - JULY 2005 TO DECEMBER 2007

EPA METHOD 625

Contaminant of Concern →		
Well ID	**Date**	
	2L GWQS GCL	
USTBB293-MW01	10/18/2005	
USTBB293-MW01	11/27/2006	
USTBB293-MW02	10/18/2005	
USTBB293-MW02	11/27/2006	
USTBB293-MW03	10/18/2005	
USTBB293-MW03	11/27/2006	
USTBB293-MW04	10/18/2005	
USTBB293-MW04	11/27/2006	
USTBB293-MW05	11/27/2006	
USTBB293-MW06	10/18/2005	
USTBB293-MW06	11/27/2006	

Notes:
1. 2L GWQS = North Carolina groundwater quality standard 15A NCAC 2L .0202
2. GCL = Gross Contamination Levels for ground water as defined in "Guidelines for Assessment and Corrective Action" North Carolina Underground Storage Tank Section, effective July 1, 2001
3. All units are in ug/L (Micrograms per Liter)
4. BQL = Below Quantitaion Limits
5. A zero in the 2L GWQS row indicates the 2L Standard is equal to the laboratory detection limit
6. A zero in the GCL row indicates a GCL has not been established
7. Shaded concentrations indicate exceedance of the 2L GWQS
8. Only compounds which were detected are shown on table. All other compounds were BQL

TABLE 19.4

SITE BB-293

GROUNDWATER LABORATORY ANALYTICAL RESULTS - JULY 2005 TO DECEMBER 2007

EPA METHOD 6010B

Contaminant of Concern →		
Well ID	**Date**	
2L GWQS GCL		
USTBB293-MW01	11/27/2006	
USTBB293-MW02	11/27/2006	
USTBB293-MW03	11/27/2006	
USTBB293-MW04	11/27/2006	
USTBB293-MW05	11/27/2006	
USTBB293-MW06	11/27/2006	

Notes:
1. 2L GWQS = North Carolina groundwater quality standard 15A NCAC 2L .0202
2. GCL = Gross Contamination Levels for ground water as defined in "Guidelines for Assessment and Corrective Action" North Carolina Underground Storage Tank Section, effective July 1, 2001
3. All units are in ug/L (Micrograms per Liter)
4. BQL = Below Quantitaion Limits
5. A zero in the 2L GWQS row indicates the 2L Standard is equal to the laboratory detection limit
6. A zero in the GCL row indicates a GCL has not been established
7. Shaded concentrations indicate exceedance of the 2L GWQS
8. Only compounds which were detected are shown on table. All other compounds were BQL

TABLE 19.5

SITE BB-293

GROUNDWATER LABORATORY ANALYTICAL RESULTS - JULY 2005 TO DECEMBER 2007

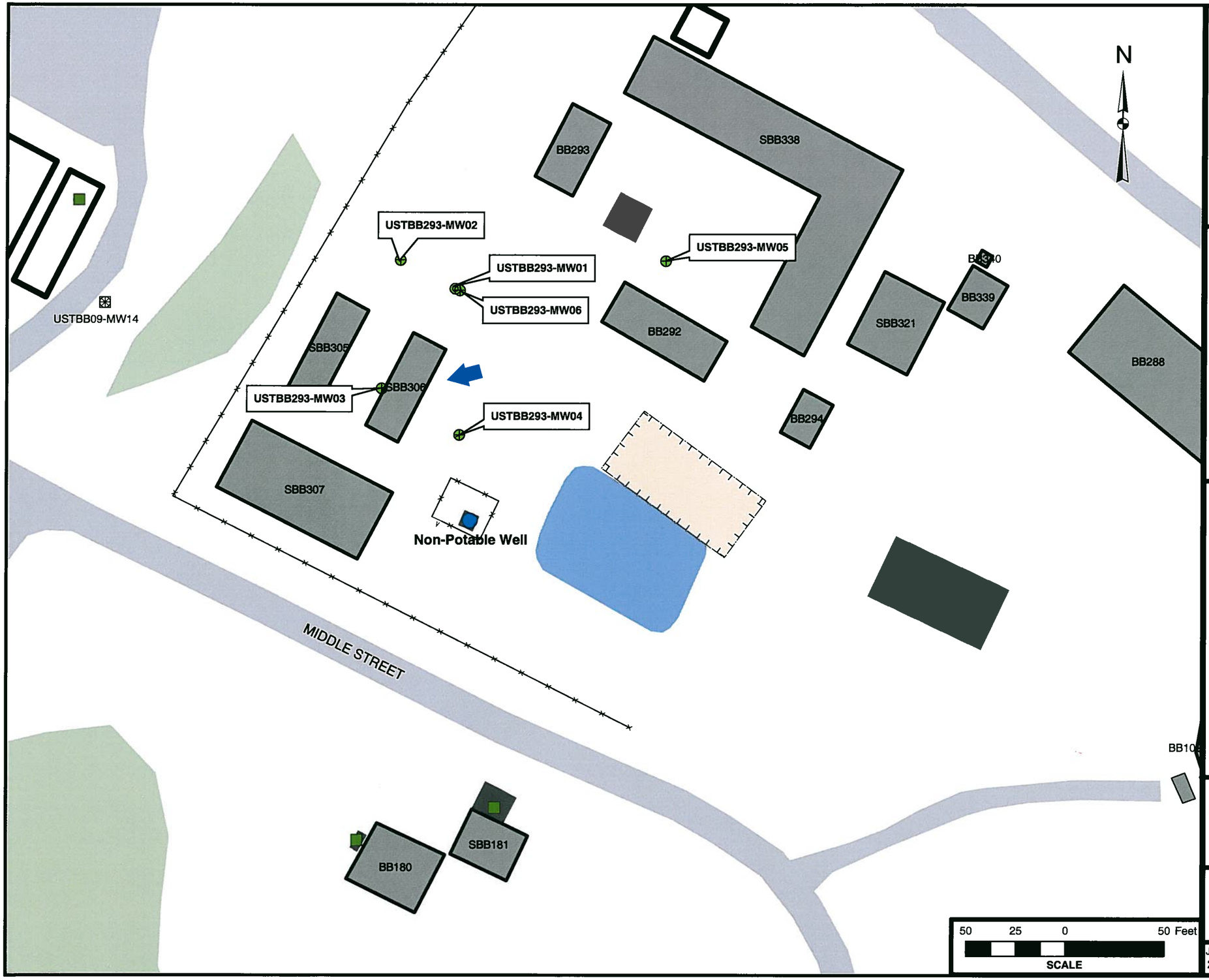
MADEP VPH/EPH

Contaminant of Concern →		
Well ID	**Date**	
2L GWQS		
GCL		
USTBB293-MW01	10/18/2005	
USTBB293-MW01	11/27/2006	
USTBB293-MW02	10/18/2005	
USTBB293-MW02	11/27/2006	
USTBB293-MW03	10/18/2005	
USTBB293-MW03	11/27/2006	
USTBB293-MW04	10/18/2005	
USTBB293-MW04	11/27/2006	
USTBB293-MW05	11/27/2006	
USTBB293-MW06	10/18/2005	
USTBB293-MW06	11/27/2006	

Notes:
1. 2L GWQS = North Carolina groundwater quality standard 15A NCAC 2L .0202
2. GCL = Gross Contamination Levels for ground water as defined in "Guidelines for Assessment and Corrective Action" North Carolina Underground Storage Tank Section, effective July 1, 2001
3. All units are in ug/L (Micrograms per Liter)
4. BQL = Below Quantitaion Limits
5. A zero in the 2L GWQS row indicates the 2L Standard is equal to the laboratory detection limit
6. A zero in the GCL row indicates a GCL has not been established
7. Shaded concentrations indicate exceedance of the 2L GWQS
8. Only compounds which were detected are shown on table. All other compounds were BQL

MCB CAMP LEJEUNE
UST MANAGEMENT PROGRAM
CALENDAR YEAR 2007

NAVFAC
Naval Facilities Engineering Command



LEGEND

Monitoring Wells
- Type I
- Type II
- Type III
- Pumping Well
- Unknown Well Type
- Water Supply Wells
- Above Ground Storage Tank
- Underground Storage Tank
- Railroad Tracks

Walls and Fences
- FENCE
- GATE
- WALL

Free Product
- Free Product Detected
- No Measurable Thickness
- Free Product Plume
- Buildings and Structures
- Demolished Structures
- Oil/Water Separators
- Slabs
- Roads
- Driveways
- Parking Lots
- Surface Water Bodies
- Creeks and Streams
- Historical Groundwater Flow Direction

Vegetation Cover
- Forestland
- Scrubland
- Wetland

Airfield Pavement
- HELIPAD
- RAMP
- RUNWAY
- SHLDR_OVERRUN
- TAXIWAY

NOTES

1. Free Product was not detected at this site in any of the wells gauged during this monitoring event.

CATLIN
Engineers and Scientists

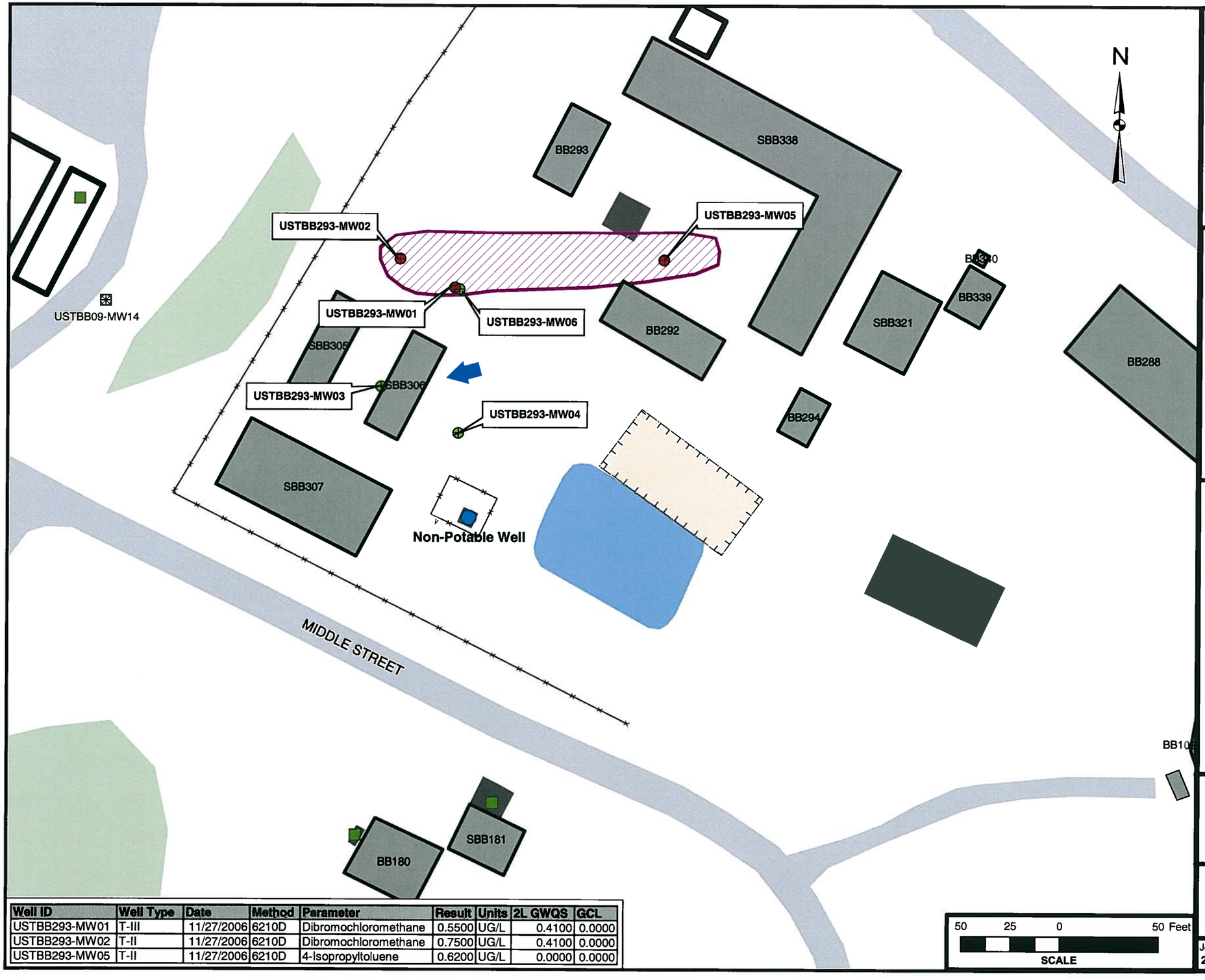
SITE BB-293
FREE PRODUCT PLUME MAP
FOURTH QUARTER 2006

FIGURE **19.1**

Job No.:	Date:	Scale:	Drawn By:	Checked By:
207-002	DEC 2007	AS SHOWN	SAC	MEM

MCB CAMP LEJEUNE
UST MANAGEMENT PROGRAM
CALENDAR YEAR 2007

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Well ID	Well Type	Date	Method	Parameter	Result	Units	2L GWQS	GCL
USTBB293-MW01	T-III	11/27/2006	6210D	Dibromochloromethane	0.5500	UG/L	0.4100	0.0000
USTBB293-MW02	T-II	11/27/2006	6210D	Dibromochloromethane	0.7500	UG/L	0.4100	0.0000
USTBB293-MW05	T-II	11/27/2006	6210D	4-Isopropyltoluene	0.6200	UG/L	0.0000	0.0000

50 25 0 50 Feet
SCALE

LEGEND

Monitoring Wells
- Type I
- Type II
- Type III
- Pumping Well
- Unknown Well Type
- Water Supply Wells
- Above Ground Storage Tank
- Underground Storage Tank
- Railroad Tracks

Walls and Fences
- FENCE
- GATE
- WALL

Analytical Results
- Free Product Detected
- 2L Non-Compliant
- 2L Compliant
- EPA 6210D Plume

Buildings and Structures
- Demolished Structures
- Oil/Water Separators
- Slabs
- Roads
- Driveways
- Parking Lots
- Surface Water Bodies
- Creeks and Streams
- Historical Groundwater Flow Direction

Vegetation Cover
- Forestland
- Scrubland
- Wetland

Airfield Pavement
- HELIPAD
- RAMP
- RUNWAY
- SHLDR_OVERRUN
- TAXIWAY

NOTES

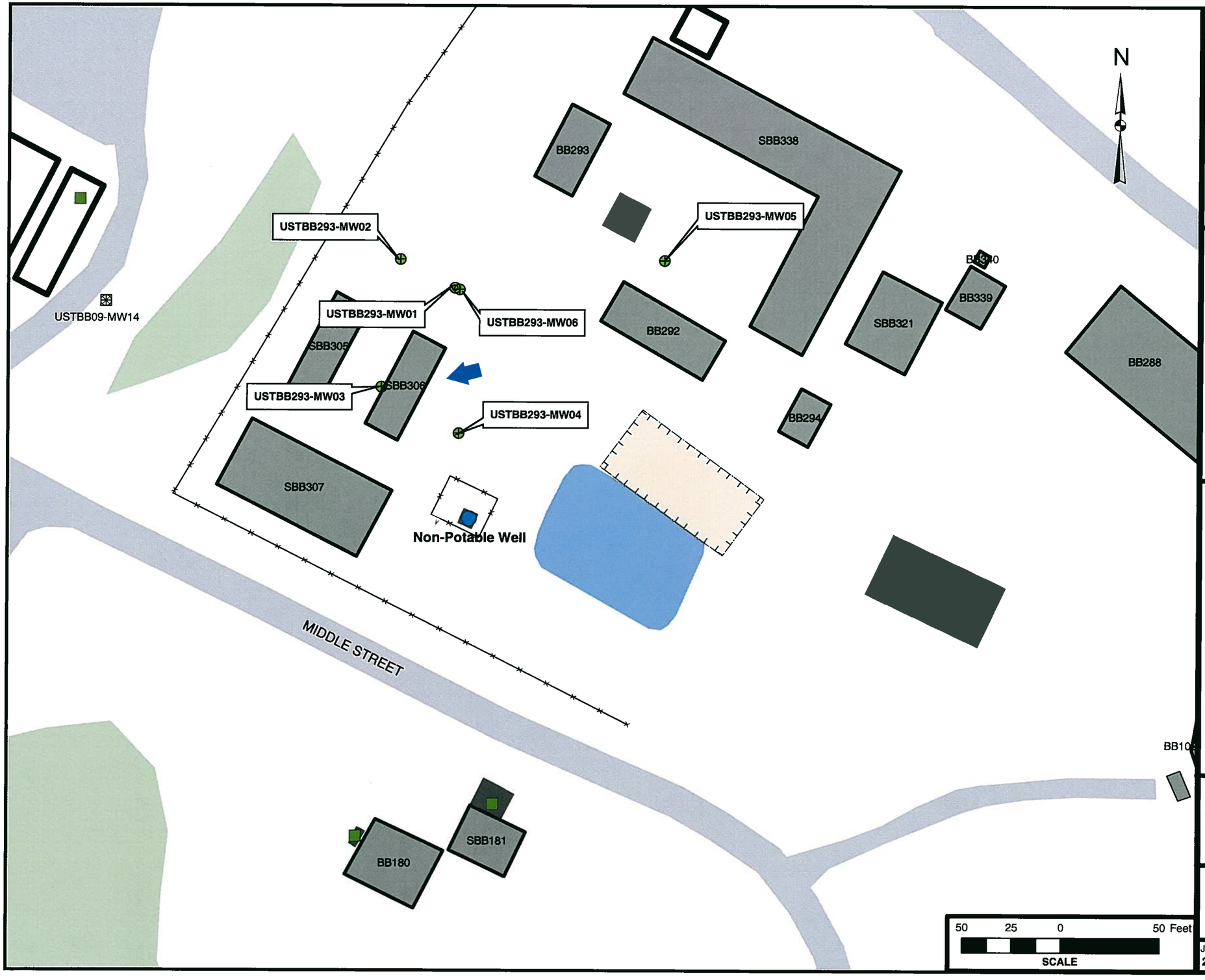
1. 2L Standard refers to North Carolina Groundwater Quality Standard 15A NCAC 2L.0202.
2. GCL refers to Gross Contaminant Level as defined in Table 7 of "Groundwater Section Guidelines for the Investigation and Remediation of Soil and Ground Water", Volume II, dated January 2, 1998.
3. A 2L Standard of "0.00" implies a standard has not yet been established. According to NCAC T15:02L, any compound found above laboratory detection limits is considered noncompliant unless otherwise specified by the NCDENR.

CATLIN
Engineers and Scientists

SITE BB-293
EPA METHOD 6210D COLORIMETRY AND PLUME IN EXCESS OF 2L FOURTH QUARTER 2006

FIGURE
19.2

Job No.:	Date:	Scale:	Drawn By:	Checked By:
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MCB CAMP LEJEUNE
UST MANAGEMENT PROGRAM
CALENDAR YEAR 2007

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Naval Facilities Engineering Command

LEGEND

Monitoring Wells
- Type I
- Type II
- Type III
- Pumping Well
- Unknown Well Type
- Water Supply Wells
- Above Ground Storage Tank
- Underground Storage Tank
- Railroad Tracks

Walls and Fences
- FENCE
- GATE
- WALL

Analytical Results
- Free Product Detected
- 2L Non-Compliant
- 2L Compliant
- EPA 625 Plume
- Buildings and Structures
- Demolished Structures
- Oil/Water Separators
- Slabs
- Roads
- Driveways
- Parking Lots
- Surface Water Bodies
- Creeks and Streams
- Historical Groundwater Flow Direction

Vegetation Cover
- Forestland
- Scrubland
- Wetland

Airfield Pavement
- HELIPAD
- RAMP
- RUNWAY
- SHLDR_OVERRUN
- TAXIWAY

NOTES

1. No EPA Method 625 compounds were detected above the 2L GWQS for any wells sampled during this monitoring event.

CATLIN
Engineers and Scientists

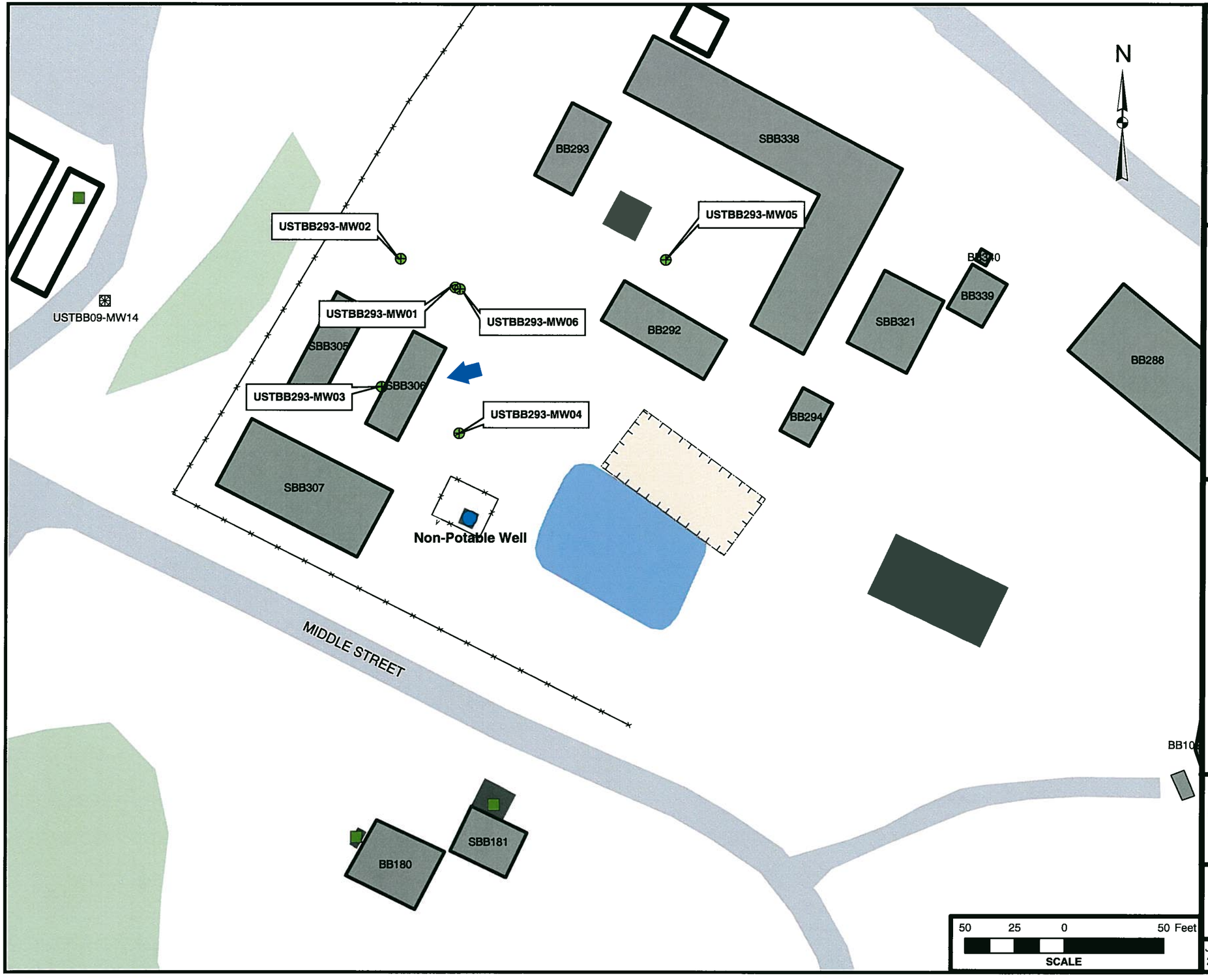
SITE BB-293
EPA METHOD 625 COLORIMETRY AND PLUME IN EXCESS OF 2L FOURTH QUARTER 2006

FIGURE **19.3**

Job No.:	Date:	Scale:	Drawn By:	Checked By:
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MCB CAMP LEJEUNE
UST MANAGEMENT PROGRAM
CALENDAR YEAR 2007

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LEGEND

Monitoring Wells
- Type I
- Type II
- Type III
- Pumping Well
- Unknown Well Type
- Water Supply Wells
- Above Ground Storage Tank
- Underground Storage Tank
- Railroad Tracks

Walls and Fences
- FENCE
- GATE
- WALL

Analytical Results
- Free Product Detected
- 2L Non-Compliant
- 2L Compliant
- EPA 6010B Plume
- Buildings and Structures
- Demolished Structures
- Oil/Water Separators
- Slabs
- Roads
- Driveways
- Parking Lots
- Surface Water Bodies
- Creeks and Streams
- Historical Groundwater Flow Direction

Vegetation Cover
- Forestland
- Scrubland
- Wetland

Airfield Pavement
- HELIPAD
- RAMP
- RUNWAY
- SHLDR_OVERRUN
- TAXIWAY

NOTES

1. No EPA Method 6010B compounds were detected above the 2L GWQS for any wells sampled during this monitoring event.

CATLIN
Engineers and Scientists

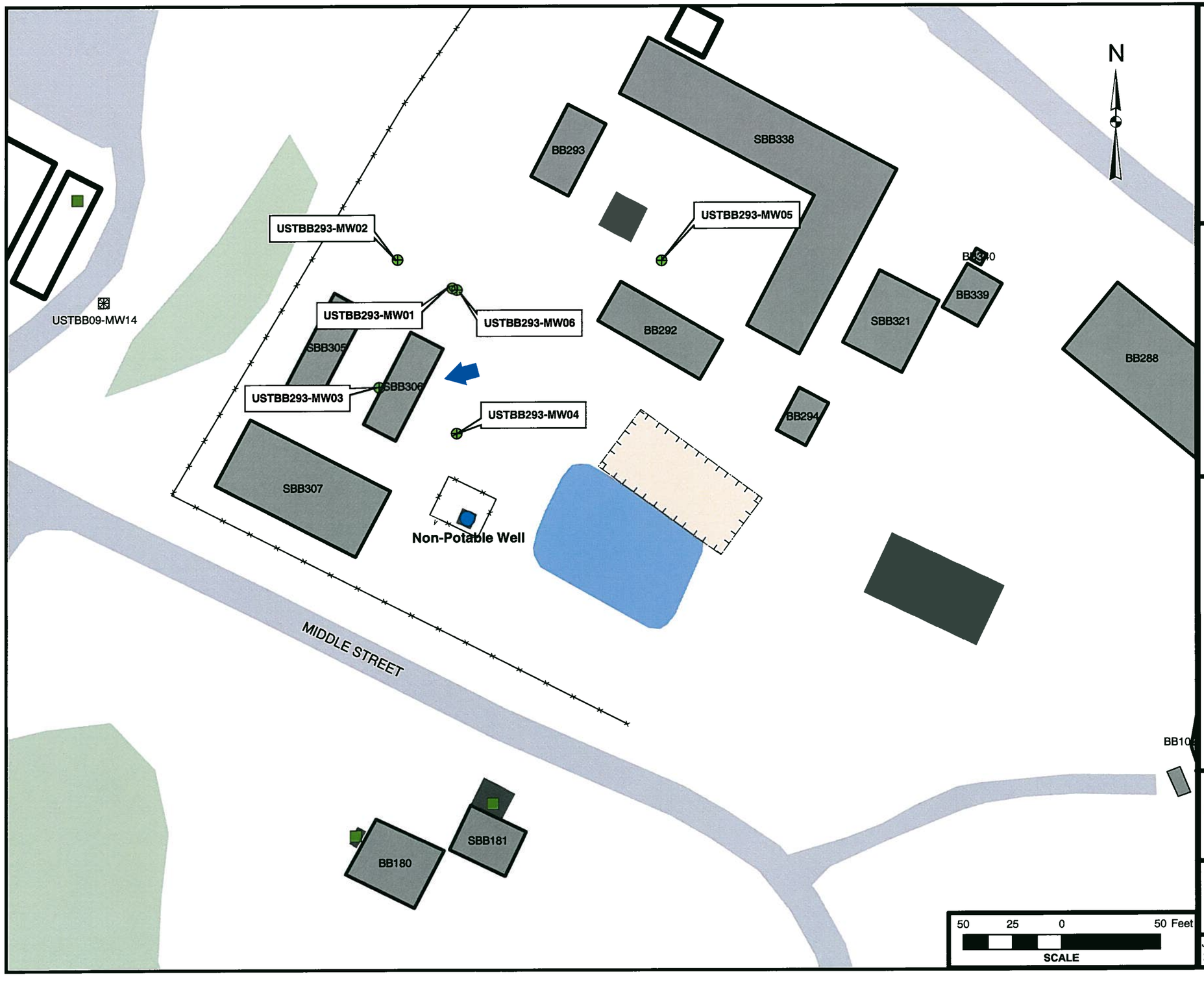
SITE BB-293
EPA METHOD 6010B COLORIMETRY AND PLUME IN EXCESS OF 2L
FOURTH QUARTER 2006

FIGURE **19.4**

Job No.:	Date:	Scale:	Drawn By:	Checked By:
207-002	DEC 2007	AS SHOWN	SAC	MEM

MCB CAMP LEJEUNE
UST MANAGEMENT PROGRAM
CALENDAR YEAR 2007

NAVFAC
Naval Facilities Engineering Command



LEGEND

Monitoring Wells
- Type I
- Type II
- Type III
- Pumping Well
- Unknown Well Type
- Water Supply Wells
- Above Ground Storage Tank
- Underground Storage Tank
- Railroad Tracks

Walls and Fences
- FENCE
- GATE
- WALL

Analytical Results
- Free Product Detected
- 2L Non-Compliant
- 2L Compliant
- MADEP Plume
- Buildings and Structures
- Demolished Structures
- Oil/Water Separators
- Slabs
- Roads
- Driveways
- Parking Lots
- Surface Water Bodies
- Creeks and Streams
- Historical Groundwater Flow Direction

Vegetation Cover
- Forestland
- Scrubland
- Wetland

Airfield Pavement
- HELIPAD
- RAMP
- RUNWAY
- SHLDR_OVERRUN
- TAXIWAY

NOTES

1. No MADEP VPH/EPH compounds were detected above the 2L GWQS for any wells sampled during this monitoring event.

CATLIN
Engineers and Scientists

SITE BB-293
MADEP VPH/EPH COLORIMETRY AND PLUME IN EXCESS OF 2L
FOURTH QUARTER 2006

FIGURE **19.5**

Job No.:	Date:	Scale:	Drawn By:	Checked By:
207-002	DEC 2007	AS SHOWN	SAC	MEM

SECTION 20.0

OF THE

ANNUAL MANAGEMENT REPORT
MCB CAMP LEJEUNE UST MANAGEMENT PROGRAM

MONITORING EVENT:

YEAR 2007
(JANUARY – DECEMBER 2007)

SITE-SPECIFIC MONITORING REPORT
FOR

SITE FC-40-3

NCDENR INCIDENT NO. 24222

20.0 EXECUTIVE SUMMARY
SITE FC-40-3

20.1 Site Information

20.1.1 Site Location: MCB Camp Lejeune
20.1.2 Incident Number(s): 24222
20.1.3 UTM Coordinates (WGS84) (Meters): 287812.86 Easting, 3837422.56 Northing
20.1.4 Risk Classification: Low
20.1.5 Land Use Classification: Industrial/Commercial
20.1.6 Source Type(s): 1,000 gallon Used Oil UST

20.2 Monitoring Event Information

20.2.1 Sampling Performed By: CATLIN
20.2.2 Date(s) of This Monitoring Event: July 2007
20.2.3 Date(s) of Previous Monitoring Event: Previous groundwater sampling conducted in November 2004.
20.2.4 Reason(s) for This Monitoring Event: Determine if groundwater contaminants attenuated to concentrations below the 2L GWQSs.
20.2.5 Site Monitoring Status at Time of This Event: Site was approved for NFA with LURs on July 12, 2005; the subject site was re-sampled during this monitoring period to determine if contaminant levels have naturally attenuated to below the 2L GWQS.

20.3 Groundwater Hydraulics

20.3.1 Hydraulic Conductivity: Unknown
20.3.2 Effective Porosity: Unknown
20.3.3 Hydraulic Gradient: Unknown
20.3.4 Average Linear Groundwater Flow Velocity: Unknown
20.3.5 Groundwater Flow Direction: Unknown
20.3.6 Range of Measured Water Table Elevations: Not Measured. However, depth to groundwater from the temporary well installed in July 2007 was measured at approximately 12 feet BLS.
20.3.7 Significant Changes from Previously Reported Data: None

20.4 Free Product Plume

20.4.1 Free Product Present?: No
20.4.2 Free Product Thickness Measured: Not Applicable
20.4.3 Plume Size and Location: Not Applicable
20.4.4 Free Product Removed from Site This Period: Not Applicable
20.4.5 Significant Changes from Previously Reported Data: None

20.5 Dissolved-Phase Plume

20.5.1 Plume Concentrations: See Figures 20.1 and 20.2
20.5.2 Plume Size and Location: See Figures 20.1 and 20.2
20.5.3 Significant Changes from Previously Reported Data: The groundwater sample analytical results from November 2004 as compared to the current analytical results (July 2007) are discussed as follows:

EPA Method 625

During the November 2004 sampling event, Bis(2-ethylhexyl)phthalate was detected at a concentration of 44.3 ug/L which was above the 2L GWQS of 2.5 ug/L for this compound. During the current sampling event Bis(2-ethylhexyl)phthalate and Diphenylamine were detected at concentrations of 3.6 ug/L and 1.9 ug/L, respectively. The concentration Bis(2-ethylhexyl)phthalate was above the 2L GWQS and there is no established 2L GWQS for Diphenylamine. See Figure 20.1.

MADEP VPH/EPH

During the November 2004 sampling event three MADEP fractions were detected at concentrations above the 2L GWQS (C_9-C_{18} Aliphatics: Result = 14,510 ug/L, 2L GWQS = 4,200 ug/L; C_{19}-C_{36} Aliphatics: Result = 250,000 ug/L, 2L GWQS = 42,000 ug/L; and C_9-C_{22} Aromatics: Result = 48,490 ug/L, 2L GWQS = 210 ug/L). During the current sampling event no MADEP fractions were detected above the 2L GWQSs. See Figure 20.2.

20.6 Potential Receptors

20.6.1 Contaminated Water Supply Well(s)?: None
20.6.2 Potable Water Supply Well Within 1,000 Feet of Source Area?: No
20.6.3 Any Water Supply Well Within 250 Feet of Source Area?: No
20.6.4 Surface Water Body Within 500 Feet?: No
20.6.5 Past Evidence of Vapors?: No
20.6.6 Significant Changes from Previously Reported Data?: None

20.7 Remediation

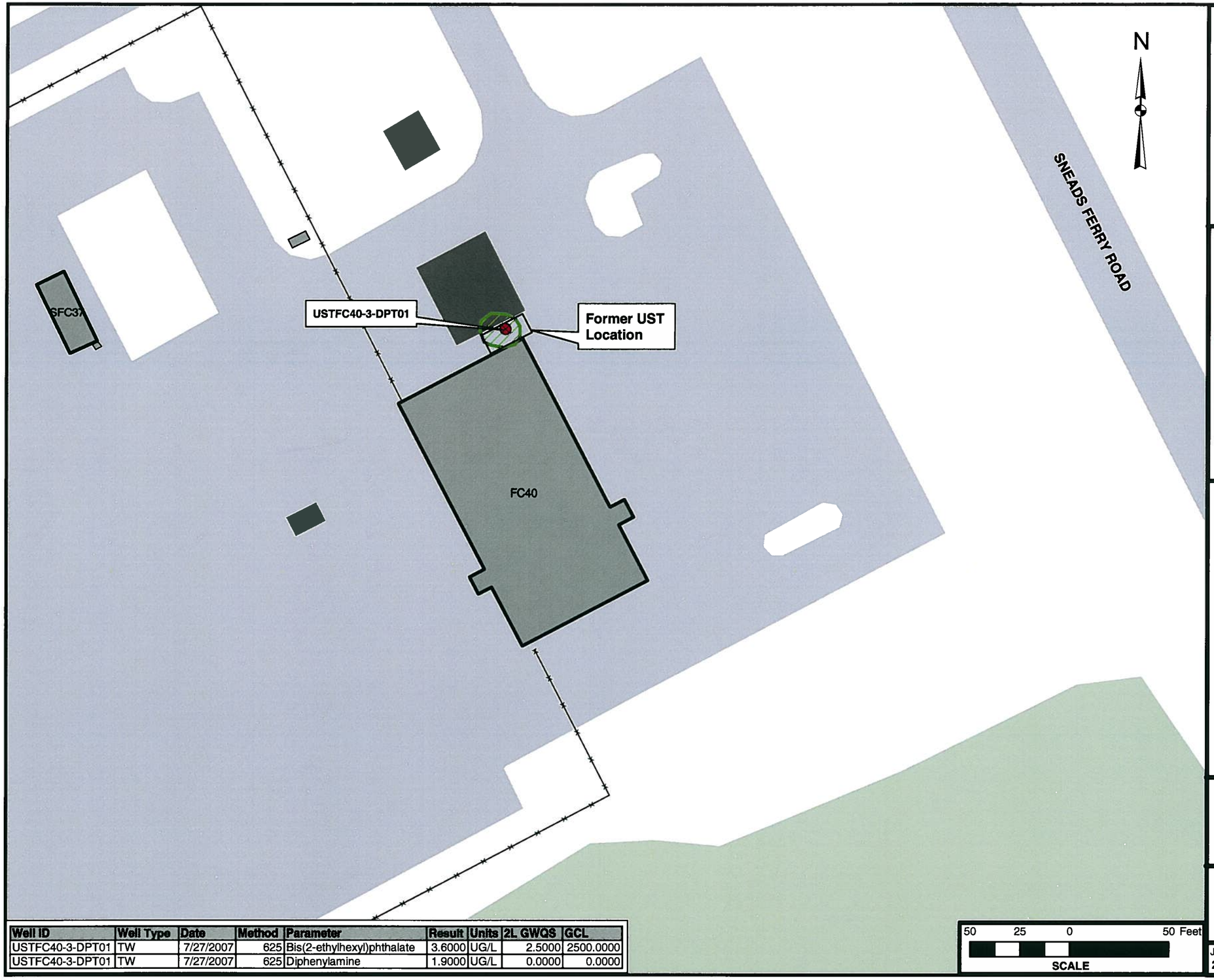
20.7.1 Status: Complete
20.7.2 Type: Soil Excavation
20.7.3 Progress: Complete
20.7.4 Construction Contractor: J.A. Jones
20.7.5 Operating Contractor: None

20.8 Observations and Comments

The groundwater analytical results from the current sampling event revealed Bis(2-ethylhexyl)phthalate at an estimated concentration slightly above the 2L GWQS.

However, it should be noted that Bis(2-ethylhexyl)phthalate is not a petroleum-related compound. This compound is commonly used in plastics as a plasticizing agent. The occurrence of this compound is likely the result of sampling/laboratory artifact, resulting from the use of plastic sampling equipment and/or analytical instrument tubing. Diphenylamine was also detected during the July 2007 sampling event and this compound has no established 2L GWQS. However, this compound is used as a fungicide and is an aromatic amine with the structural formula $(C_6H_5)_2NH$ and molecular formula $C_{12}H_{11}N$. A standards comparison can be made with the C_9-C_{22} Aromatic fraction class since both structures are based on the aromatic Benzene ring. When compared to the C_9-C_{22} Aromatic 2L GWQS of 210 µg/L, the detected Diphenylamine concentration is well below the 2L GWQS.

The July 2007 analytical results were submitted to the NCDENR by CATLIN in a Report of Findings with Site Closure Request. In a December 3, 2007 letter from the NCDENR – UST Section, NFA was granted for the subject site.



Well ID	Well Type	Date	Method	Parameter	Result	Units	2L GWQS	GCL
USTFC40-3-DPT01	TW	7/27/2007	625	Bis(2-ethylhexyl)phthalate	3.6000	UG/L	2.5000	2500.0000
USTFC40-3-DPT01	TW	7/27/2007	625	Diphenylamine	1.9000	UG/L	0.0000	0.0000

50 25 0 50 Feet

SCALE

MCB CAMP LEJEUNE
UST MANAGEMENT PROGRAM
CALENDAR YEAR 2007

NAVFAC
Naval Facilities Engineering Command

LEGEND

- DPT Well Location
- Water Supply Wells
- Above Ground Storage Tank
- Underground Storage Tank
- Railroad Tracks

Walls and Fences

- FENCE
- GATE
- WALL

Analytical Results

- 2L Non-Compliant
- 2L Compliant
- EPA 625 Plume
- Buildings and Structures
- Demolished Structures
- Oil/Water Separators
- Slabs
- Roads
- Driveways
- Parking Lots
- Surface Water Bodies
- Creeks and Streams

Vegetation Cover

- Forestland
- Scrubland
- Wetland

Airfield Pavement

- HELIPAD
- RAMP
- RUNWAY
- SHLDR_OVERRUN
- TAXIWAY

NOTES

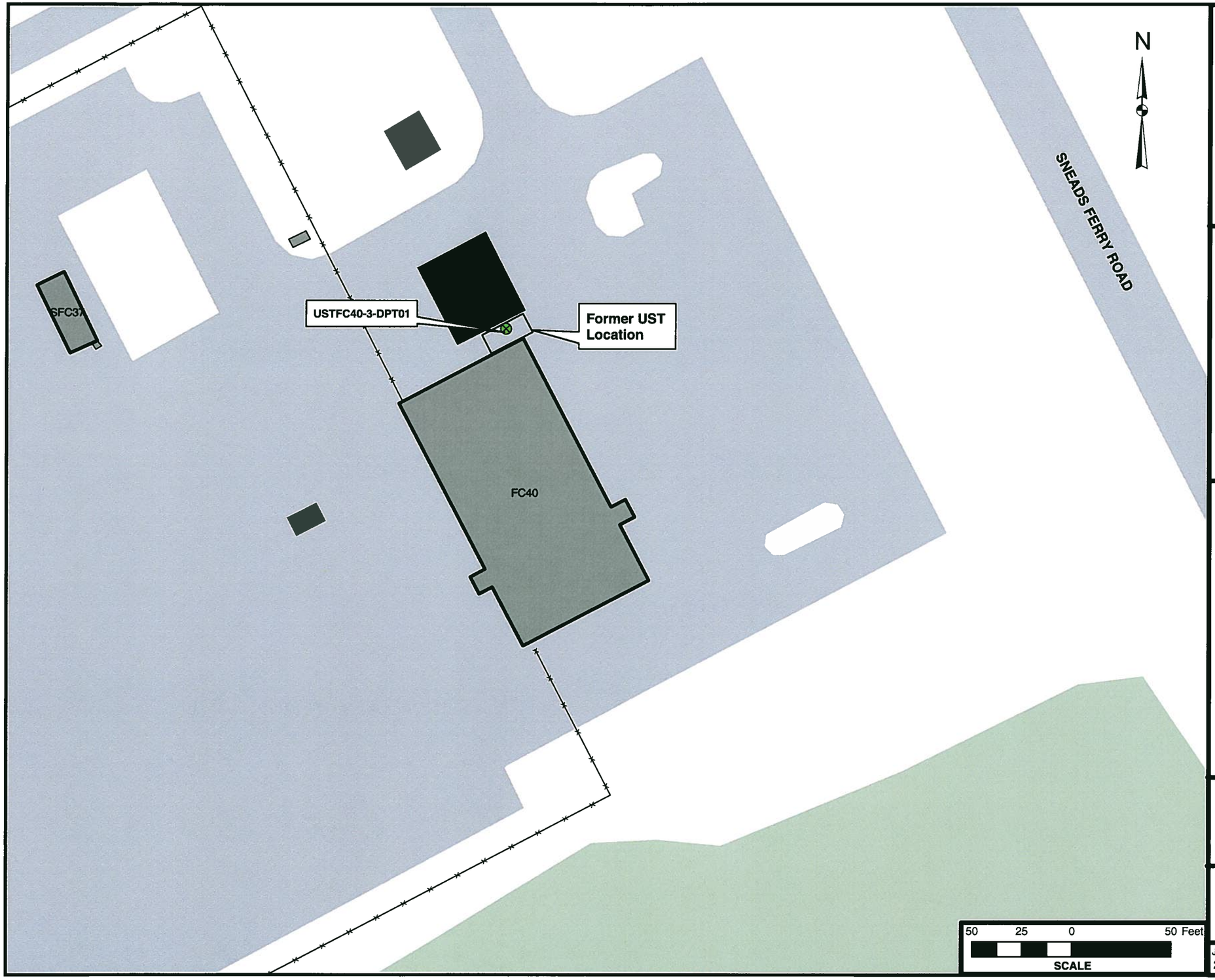
1. 2L Standard refers to North Carolina Groundwater Quality Standard 15A NCAC 2L.0202.
2. GCL refers to Gross Contaminant Level as defined in "Guidelines for the Assessment and Corrective Action" North Carolina Underground Storage Tank Section, effective July 1, 2001.
3. A 2L Standard of "0.00" implies a standard has not yet been established. According to NCAC T15:02L, any compound found above laboratory detection limits is considered noncompliant unless otherwise specified by the NCDENR.

CATLIN
Engineers and Scientists

SITE FC-40-3
EPA METHOD 625 COLORIMETRY AND PLUME IN EXCESS OF 2L THIRD QUARTER 2007

FIGURE
20.1

Job No.:	Date:	Scale:	Drawn By:	Checked By:
207-002	JAN 2008	AS SHOWN	SAC	MEM



MCB CAMP LEJEUNE
UST MANAGEMENT PROGRAM
CALENDAR YEAR 2007

NAVFAC
Naval Facilities Engineering Command

LEGEND

- DPT Well Location
- Water Supply Wells
- Above Ground Storage Tank
- Underground Storage Tank
- Railroad Tracks

Walls and Fences

- FENCE
- GATE
- WALL

Analytical Results

- 2L Non-Compliant
- 2L Compliant
- MADEP Plume
- Buildings and Structures
- Demolished Structures
- Oil/Water Separators
- Slabs
- Roads
- Driveways
- Parking Lots
- Surface Water Bodies
- Creeks and Streams

Vegetation Cover

- Forestland
- Scrubland
- Wetland

Airfield Pavement

- HELIPAD
- RAMP
- RUNWAY
- SHLDR_OVERRUN
- TAXIWAY

NOTES

1. No MADEP VPH/EPH compounds were detected above the 2L GWQS for any wells sampled during this monitoring event.

CATLIN
Engineers and Scientists

SITE FC-40-3
MADEP VPH/EPH COLORIMETRY AND PLUME IN EXCESS OF 2L
THIRD QUARTER 2007

FIGURE **20.2**

Job No.:	Date:	Scale:	Drawn By:	Checked By:
207-002	JAN 2008	AS SHOWN	SAC	MEM

SECTION 21.0

OF THE

ANNUAL MANAGEMENT REPORT
MCB CAMP LEJEUNE UST MANAGEMENT PROGRAM

MONITORING EVENT:

YEAR 2007
(JANUARY – DECEMBER 2007)

SITE-SPECIFIC MONITORING REPORT
FOR

SITE FC-286

NCDENR INCIDENT NO. 32149

21.0 EXECUTIVE SUMMARY
SITE FC-286

21.1 Site Information

21.1.1 Site Location: MCB Camp Lejeune
21.1.2 Incident Number(s): 32149
21.1.3 UTM Coordinates (WGS84) (Meters): 287381.55 Easting,3837332.05 Northing
21.1.4 Risk Classification: Low
21.1.5 Land Use Classification: Industrial/Commercial
21.1.6 Source Type(s): 1,000 gallon Used Oil UST

21.2 Monitoring Event Information

21.2.1 Sampling Performed By: No sampling performed.
21.2.2 Date(s) of This Monitoring Event: No sampling performed during 2007.
21.2.3 Date(s) of Previous Monitoring Event: Previous sampling performed by J.A. Jones during tank removal actions in April 2002.
21.2.4 Reason(s) for This Monitoring Event: Not Applicable.
21.2.5 Site Monitoring Status at Time of This Event: Site qualifies for NFA with LURs; however, it is recommended that the site be re-sampled during the next monitoring period to determine if contaminant levels have naturally attenuated to below the Residential MSCCs and 2L GWQS.

21.3 Groundwater Hydraulics

21.3.1 Hydraulic Conductivity: Unknown.
21.3.2 Effective Porosity: Unknown.
21.3.3 Hydraulic Gradient: Unknown.
21.3.4 Average Linear Groundwater Flow Velocity: Unknown.
21.3.5 Groundwater Flow Direction: Unknown.
21.3.6 Range of Measured Water Table Elevations: Not Measured.
21.3.7 Significant Changes from Previously Reported Data: Not Applicable. No data was collected during this monitoring period.

21.4 Free Product Plume

21.4.1 Free Product Present?: No.
21.4.2 Free Product Thickness Measured: Not Applicable.
21.4.3 Plume Size and Location: Not Applicable.
21.4.4 Free Product Removed from Site This Period: Not Applicable.
21.4.5 Significant Changes from Previously Reported Data: Not Applicable. No data was collected during this monitoring period.

21.5 Dissolved-Phase Plume

21.5.1 Plume Concentrations: Not Measured.
21.5.2 Plume Size and Location: Not Measured.
21.5.3 Significant Changes from Previously Reported Data: Not Applicable. This is the first Management Report prepared by CATLIN for this site. The groundwater analytical results collected during the April 2002 J.A. Jones tank removal are discussed as follows:

The groundwater sample obtained from temporary monitoring well FC286-W in 2002 was sent for laboratory analysis via EPA Method 6230D, EPA Method 625 + TICs, MADEP VPH/EPH, and EPA Method 6020 (Chromium and Lead). All target analytes were either below method detection limits or below applicable 2L GWQS and GCLs, with two exceptions. Benzene was detected at 2.4 µg/L and the C_9-C_{22} Aromatics were detected at 1,262 µg/L. The 2L GWQS for Benzene is 1 ug/L and for the C_9-C_{22} Aromatics the 2L GWQS is 210 ug/L.

21.6 Potential Receptors

21.6.1 Contaminated Water Supply Well(s)?: No.
21.6.2 Potable Water Supply Well Within 1,000 Feet of Source Area?: No.
21.6.3 Any Water Supply Well Within 250 Feet of Source Area?: No.
21.6.4 Surface Water Body Within 500 Feet?: No.
21.6.5 Past Evidence of Vapors?: No.
21.6.6 Significant Changes from Previously Reported Data?: Not Applicable. This is the first Management Report prepared by CATLIN for this site.

21.7 Remediation

21.7.1 Status: Complete.
21.7.2 Type: Soil excavation at tank closure.
21.7.3 Progress: Complete.
21.7.4 Construction Contractor: J.A. Jones
21.7.5 Operating Contractor: Not Applicable.

21.8 Observations and Comments

The site qualifies for NFA with a LUR via an email from NCDENR dated January 18, 2005. Tank closure soil samples FC286-1R (taken from 11 feet BLS) and FC286-5R (taken from 11.5 feet BLS) contained C_9-C_{22} Aromatics and P-Isopropyltoluene above the STGW and Residential MSCCs (no standards established for P-Isopropyltoluene). In addition, groundwater exhibited noncompliant Benzene and C_9-C_{22} Aromatics concentrations. CATLIN recommends taking two soil samples from the previous locations at a depth of 11 and 11.5 feet BLS (or just above groundwater if DTW is shallower than 11 feet BLS) and analyzing them for P-Isopropyltoluene (EPA Method 8260) and MADEP constituents (MADEP VPH/EPH). A groundwater sample should also be collected to assess current groundwater conditions. A monitoring well will need to be installed in order to analyze groundwater for Benzene and MADEP fractions via EPA Method 602 and MADEP VPH/EPH, respectively.

SECTION 22.0

OF THE

ANNUAL MANAGEMENT REPORT
MCB CAMP LEJEUNE UST MANAGEMENT PROGRAM

MONITORING EVENT:

YEAR 2007
(JANUARY – DECEMBER 2007)

SITE-SPECIFIC MONITORING REPORT
FOR

SITE H-28

NCDENR INCIDENT NO. 23333, 9593

22.0 EXECUTIVE SUMMARY
SITE H-28

22.1 Site Information

22.1.1 Site Location: MCB Camp Lejeune
22.1.2 Incident Number(s): 23333
22.1.3 UTM Coordinates (WGS84) (Meters): 283001.95 Easting, 3839812.16 Northing
22.1.4 Risk Classification: Low
22.1.5 Land Use Classification: Residential
22.1.6 Source Type(s): Fuel Oil

22.2 Monitoring Event Information

22.2.1 Sampling Performed By: Sovereign
22.2.2 Date(s) of This Monitoring Event: August 2006, January 2007 and June 2007
22.2.3 Date(s) of Previous Monitoring Event: December 2005
22.2.4 Reason(s) for This Monitoring Event: Track migration and attenuation of dissolved-phase plume.
22.2.5 Site Monitoring Status at Time of This Event: Quarterly gauging of 10 monitoring wells, semi-annual sampling of four monitoring wells per EPA Methods 602, 625 and MADEP VPH/EPH.

22.3 Groundwater Hydraulics

22.3.1 Hydraulic Conductivity: 2.24 ft/day
22.3.2 Effective Porosity: 0.30
22.3.3 Hydraulic Gradient: 0.0011 to 0.0035
22.3.4 Average Linear Groundwater Flow Velocity: 3 to 11 ft/year
22.3.5 Groundwater Flow Direction(s): Variable over time, most recent indicates flow to northwest
22.3.6 Range of Measured Water Table Elevations: See Table 22.1
22.3.7 Significant Changes from Previously Reported Data: None

22.4 Free Product Plume

22.4.1 Free Product Present?: No.
22.4.2 Free Product Thickness Measured: Not Applicable
22.4.3 Plume Size and Location: Not Applicable
22.4.4 Free Product Removed from Site This Period: Not Applicable
22.4.5 Significant Changes from Previously Reported Data: Free product was detected in monitoring well USTH28-MW07 in December 2005. No on-site monitoring wells contained measurable free product during any of the gauging events conducted during the current monitoring period. See Figures 22.1A through 22.1C.

22.5 Dissolved-Phase Plume

22.5.1 Plume Concentrations: See Tables 22.2 through 22.4
22.5.2 Plume Size and Location: See Figures 22.2A through 22.4C
22.5.3 Significant Changes from Previously Reported Data: The current groundwater sample analytical results as compared to the December 2005 analytical results are discussed as follows:

EPA Method 602

There are no significant changes from the previously reported data as no EPA Method 602 compounds were detected above the corresponding 2L GWQSs. See Figures 22.2A through 22.2C.

EPA Method 625

There are no significant changes from the previously reported data as Naphthalene was again detected above the corresponding 2L GWQS in monitoring well USTH28-MW11. See Figures 22.3A through 22.3C.

MADEP VPH/EPH

During the December 2005 sampling event, the groundwater sample collected from monitoring well USTH28-MW11 revealed C_9-C_{22} Aromatics concentrations above the 2L GWQS. This monitoring well again revealed non-compliant concentrations of this MADEP fraction in the third quarter 2006 and first quarter 2007, however during the second quarter 2007 this MADEP fraction was not detected in this monitoring well at concentrations in excess of the 2L GWQS. During the December 2005 sampling event, groundwater samples collected from monitoring well USTH28-MW08 revealed no MADEP compounds above the 2L GWQSs. However, during the third quarter 2006 and the second quarter 2007 sampling events, the C_9-C_{22} Aromatics fraction was detected at concentrations in excess of the 2L GWQS. See Figures 22.4A through 22.4C.

22.6 Potential Receptors

22.6.1 Contaminated Water Supply Well(s)?: None
22.6.2 Potable Water Supply Well Within 1,000 Feet of Source Area?: No
22.6.3 Any Water Supply Well Within 250 Feet of Source Area?: No
22.6.4 Surface Water Body Within 500 Feet?: Yes, Wallace Creek is approximately 250 feet north of the site.
22.6.5 Past Evidence of Vapors?: No
22.6.6 Significant Changes from Previously Reported Data?: None

22.7 Remediation

22.7.1 Status: Ongoing
22.7.2 Type: Natural Attenuation
22.7.3 Progress: Ongoing
22.7.4 Construction Contractor: Not Applicable
22.7.5 Operating Contractor: Not Applicable

22.8 Observations and Comments

Site H-28 was re-classified to Low Risk by the NCDENR on July 9, 2007, therefore the GCLs (groundwater) are applicable. Based on the historical and current analytical data the site can receive NFA with a LUR. CATLIN recommends that once the LUR documentation is finalized, the subject site be added to this list. CATLIN recommends discontinuing the current monitoring schedule (Quarterly gauging and semi-annual sampling).

MCB Camp Lejeune should consider re-sampling five on-site monitoring wells at the subject site in approximately two years to assess current groundwater conditions in an attempt to remove the LUR.

TABLE 22.1
SITE H-28
FIELD MEASUREMENTS - JULY 2005 TO DECEMBER 2007

Well No.	Type	TOC	Date	DTW	Product Thickness	Corrected GWT Elevation
USTH28-MW01	T-II	11.30	12/13/2005	8.80	0.00	2.50
USTH28-MW01	T-II	11.30	8/22/2006	9.15	0.00	2.15
USTH28-MW01	T-II	11.30	11/2/2006	9.13	0.00	2.17
USTH28-MW01	T-II	11.30	1/17/2007	8.39	0.00	2.91
USTH28-MW01	T-II	11.30	4/4/2007	8.95	0.00	2.35
USTH28-MW01	T-II	11.30	6/19/2007	9.68	0.00	1.62
USTH28-MW02	T-II	11.59	12/13/2005	8.96	0.00	2.63
USTH28-MW02	T-II	11.59	8/22/2006	9.20	0.00	2.39
USTH28-MW02	T-II	11.59	11/2/2006	9.20	0.00	2.39
USTH28-MW02	T-II	11.59	1/17/2007	8.62	0.00	2.97
USTH28-MW02	T-II	11.59	4/4/2007	9.10	0.00	2.49
USTH28-MW02	T-II	11.59	6/19/2007	9.64	0.00	1.95
USTH28-MW03	T-II	11.77	12/13/2005	9.15	0.00	2.62
USTH28-MW03	T-II	11.77	8/22/2006	9.50	0.00	2.27
USTH28-MW03	T-II	11.77	11/2/2006	9.20	0.00	2.57
USTH28-MW03	T-II	11.77	1/17/2007	8.70	0.00	3.07
USTH28-MW03	T-II	11.77	4/4/2007	9.29	0.00	2.48
USTH28-MW03	T-II	11.77	6/19/2007	9.79	0.00	1.98
USTH28-MW05	T-II	11.88	12/13/2005	9.34	0.00	2.54
USTH28-MW05	T-II	11.88	8/22/2006	9.72	0.00	2.16
USTH28-MW05	T-II	11.88	11/2/2006	9.67	0.00	2.21
USTH28-MW05	T-II	11.88	1/17/2007	9.11	0.00	2.77
USTH28-MW05	T-II	11.88	4/4/2007	9.57	0.00	2.31
USTH28-MW05	T-II	11.88	6/19/2007	10.05	0.00	1.83
USTH28-MW06	T-II	11.52	12/13/2005	9.03	0.00	2.49

Notes:
1. T-II = Type II monitoring well
   T-III = Type III monitoring well
   RW = Recovery well
2. TOC = Top of casing elevation in feet relative to Mean Sea Level.
3. DTW = Depth to water (in feet) from top of well casing.
4. Product thickness is measured in feet.
5. GWT = Groundwater Table
6. A zero ("0.00") in the product thickness column indicates no measureable thickness.
7. GWT Elevation corrected for measurable free product, if present.

Well No.	Type	TOC	Date	DTW	Product Thickness	Corrected GWT Elevation
USTH28-MW06	T-II	11.52	8/22/2006	9.40	0.00	2.12
USTH28-MW06	T-II	11.52	11/2/2006	9.25	0.00	2.27
USTH28-MW06	T-II	11.52	1/17/2007	8.75	0.00	2.77
USTH28-MW06	T-II	11.52	4/4/2007	8.90	0.00	2.62
USTH28-MW06	T-II	11.52	6/19/2007	9.70	0.00	1.82
USTH28-MW07	T-II	11.18	12/13/2005	8.73	0.01	2.46
USTH28-MW07	T-II	11.18	8/22/2006	9.05	0.00	2.13
USTH28-MW07	T-II	11.18	11/2/2006	9.05	0.00	2.13
USTH28-MW07	T-II	11.18	1/17/2007	8.42	0.00	2.76
USTH28-MW07	T-II	11.18	4/4/2007	8.72	0.00	2.46
USTH28-MW07	T-II	11.18	6/19/2007	9.34	0.00	1.84
USTH28-MW08	T-II	11.65	12/13/2005	9.11	0.00	2.54
USTH28-MW08	T-II	11.65	8/22/2006	9.46	0.00	2.19
USTH28-MW08	T-II	11.65	11/2/2006	9.41	0.00	2.24
USTH28-MW08	T-II	11.65	1/17/2007	8.80	0.00	2.85
USTH28-MW08	T-II	11.65	4/4/2007	9.27	0.00	2.38
USTH28-MW08	T-II	11.65	6/19/2007	9.79	0.00	1.86
USTH28-MW09	T-II	11.78	12/13/2005	9.22	0.00	2.56
USTH28-MW09	T-II	11.78	11/2/2006	9.52	0.00	2.26
USTH28-MW09	T-II	11.78	1/17/2007	8.91	0.00	2.87
USTH28-MW09	T-II	11.78	4/4/2007	9.35	0.00	2.43
USTH28-MW09	T-II	11.78	6/19/2007	9.91	0.00	1.87
USTH28-MW10	T-II	11.21	12/13/2005	8.61	0.00	2.60
USTH28-MW10	T-II	11.21	8/22/2006	9.00	0.00	2.21
USTH28-MW10	T-II	11.21	11/2/2006	8.95	0.00	2.26
USTH28-MW10	T-II	11.21	1/17/2007	8.32	0.00	2.89
USTH28-MW10	T-II	11.21	4/4/2007	8.77	0.00	2.44
USTH28-MW10	T-II	11.21	6/19/2007	9.30	0.00	1.91
USTH28-MW11	T-II	11.75	12/13/2005	9.15	0.00	2.60
USTH28-MW11	T-II	11.75	8/22/2006	9.55	0.00	2.20

Notes:
1. T-II = Type II monitoring well
   T-III = Type III monitoring well
   RW = Recovery well
2. TOC = Top of casing elevation in feet relative to Mean Sea Level.
3. DTW = Depth to water (in feet) from top of well casing.
4. Product thickness is measured in feet.
5. GWT = Groundwater Table
6. A zero ("0.00") in the product thickness column indicates no measureable thickness.
7. GWT Elevation corrected for measurable free product, if present.

Well No.	Type	TOC	Date	DTW	Product Thickness	Corrected GWT Elevation
USTH28-MW11	T-II	11.75	11/2/2006	9.50	0.00	2.25
USTH28-MW11	T-II	11.75	1/17/2007	8.90	0.00	2.85
USTH28-MW11	T-II	11.75	4/4/2007	9.37	0.00	2.38
USTH28-MW11	T-II	11.75	6/19/2007	9.85	0.00	1.90

Notes:
1. T-II = Type II monitoring well
   T-III = Type III monitoring well
   RW = Recovery well
2. TOC = Top of casing elevation in feet relative to Mean Sea Level.
3. DTW = Depth to water (in feet) from top of well casing.
4. Product thickness is measured in feet.
5. GWT = Groundwater Table
6. A zero ("0.00") in the product thickness column indicates no measureable thickness.
7. GWT Elevation corrected for measurable free product, if present.

TABLE 22.2

SITE H-28

GROUNDWATER LABORATORY ANALYTICAL RESULTS - JULY 2005 TO DECEMBER 2007

EPA METHOD 602

Contaminant of Concern →		Ethylbenzene	Toluene	Total Xylenes	Xylenes (total)
Well ID	Date				
2L GWQS		550	1000	530	530
GCL		550000	257500	87500	87500
USTH28-MW06	12/13/2005	BQL	BQL	BQL	BQL
USTH28-MW06	8/22/2006	BQL	0.47	BQL	BQL
USTH28-MW06	1/17/2007	BQL	0.80	BQL	BQL
USTH28-MW07	6/19/2007	BQL	BQL	BQL	BQL
USTH28-MW08	12/13/2005	BQL	BQL	BQL	BQL
USTH28-MW08	8/22/2006	BQL	0.40	BQL	BQL
USTH28-MW08	1/17/2007	BQL	0.78	BQL	BQL
USTH28-MW08	6/19/2007	BQL	BQL	BQL	BQL

Notes:
1. 2L GWQS = North Carolina groundwater quality standard 15A NCAC 2L .0202
2. GCL = Gross Contamination Levels for ground water as defined in "Guidelines for Assessment and Corrective Action" North Carolina Underground Storage Tank Section, effective July 1, 2001
3. All units are in ug/L (Micrograms per Liter)
4. BQL = Below Quantitaion Limits
5. A zero in the 2L GWQS row indicates the 2L Standard is equal to the laboratory detection limit
6. A zero in the GCL row indicates a GCL has not been established
7. Shaded concentrations indicate exceedance of the 2L GWQS
8. Only compounds which were detected are shown on table. All other compounds were BQL
9. Please note, compounds reported in duplicate columns are the result of multiple laboratories submitting EDD data with different nomenclature. Unless BQL appears in both duplicate columns, a detection is present and that concentration is reported numerically.

TABLE 22.2

SITE H-28

GROUNDWATER LABORATORY ANALYTICAL RESULTS - JULY 2005 TO DECEMBER 2007

EPA METHOD 602

Contaminant of Concern →					
Well ID	**Date**	Ethylbenzene	Toluene	Total Xylenes	Xylenes (total)
2L GWQS		550	1000	530	530
GCL		550000	257500	87500	87500
USTH28-MW09	12/13/2005	3.13	1.37	BQL	3.66
USTH28-MW09	8/22/2006	BQL	BQL	BQL	BQL
USTH28-MW09	1/17/2007	BQL	0.44	BQL	BQL
USTH28-MW11	12/13/2005	35.40	2.00	BQL	165.70
USTH28-MW11	8/22/2006	29.90	1.41	141.40	BQL
USTH28-MW11	1/17/2007	33.00	2.62	158.60	BQL
USTH28-MW11	6/19/2007	37.00	0.90	145.10	BQL

Notes:
1. 2L GWQS = North Carolina groundwater quality standard 15A NCAC 2L .0202
2. GCL = Gross Contamination Levels for ground water as defined in "Guidelines for Assessment and Corrective Action" North Carolina Underground Storage Tank Section, effective July 1, 2001
3. All units are in ug/L (Micrograms per Liter)
4. BQL = Below Quantitaion Limits
5. A zero in the 2L GWQS row indicates the 2L Standard is equal to the laboratory detection limit
6. A zero in the GCL row indicates a GCL has not been established
7. Shaded concentrations indicate exceedance of the 2L GWQS
8. Only compounds which were detected are shown on table. All other compounds were BQL
9. Please note, compounds reported in duplicate columns are the result of multiple laboratories submitting EDD data with different nomenclature. Unless BQL appears in both duplicate columns, a detection is present and that concentration is reported numerically.

TABLE 22.3

SITE H-28

GROUNDWATER LABORATORY ANALYTICAL RESULTS - JULY 2005 TO DECEMBER 2007

EPA METHOD 625

Contaminant of Concern →		2-Methylnaphthalene	Acenaphthene	Dibenzofuran	Fluorene	Naphthalene	Phenanthrene
Well ID	Date						
2L GWQS		14	80	28	280	21	210
GCL		12500	2120	28000	950	15500	410
USTH28-MW06	12/13/2005	BQL	BQL	BQL	BQL	BQL	BQL
USTH28-MW06	8/22/2006	BQL	BQL	BQL	BQL	BQL	BQL
USTH28-MW06	1/17/2007	BQL	BQL	BQL	BQL	BQL	BQL
USTH28-MW07	6/19/2007	BQL	BQL	BQL	BQL	BQL	BQL
USTH28-MW08	12/13/2005	BQL	BQL	BQL	1.40	BQL	BQL
USTH28-MW08	8/22/2006	BQL	2.70	BQL	4.00	BQL	2.80
USTH28-MW08	1/17/2007	BQL	BQL	BQL	BQL	BQL	BQL
USTH28-MW08	6/19/2007	BQL	1.90	1.20	2.40	BQL	BQL
USTH28-MW09	12/13/2005	BQL	BQL	BQL	BQL	BQL	BQL
USTH28-MW09	8/22/2006	BQL	BQL	BQL	BQL	BQL	BQL
USTH28-MW09	1/17/2007	BQL	BQL	BQL	BQL	BQL	BQL

Notes:
1. 2L GWQS = North Carolina groundwater quality standard 15A NCAC 2L .0202
2. GCL = Gross Contamination Levels for ground water as defined in "Guidelines for Assessment and Corrective Action" North Carolina Underground Storage Tank Section, effective July 1, 2001
3. All units are in ug/L (Micrograms per Liter)
4. BQL = Below Quantitaion Limits
5. A zero in the 2L GWQS row indicates the 2L Standard is equal to the laboratory detection limit
6. A zero in the GCL row indicates a GCL has not been established
7. Shaded concentrations indicate exceedance of the 2L GWQS
8. Only compounds which were detected are shown on table. All other compounds were BQL

TABLE 22.3

SITE H-28

GROUNDWATER LABORATORY ANALYTICAL RESULTS - JULY 2005 TO DECEMBER 2007

EPA METHOD 625

Contaminant of Concern →		2-Methylnaphthalene	Acenaphthene	Dibenzofuran	Fluorene	Naphthalene	Phenanthrene
Well ID	Date						
2L GWQS		14	80	28	280	21	210
GCL		12500	2120	28000	950	15500	410
USTH28-MW11	12/13/2005	BQL	5.90	BQL	8.60	**142.00**	7.40
USTH28-MW11	8/22/2006	BQL	6.40	BQL	8.20	**150.00**	7.40
USTH28-MW11	1/17/2007	BQL	5.30	BQL	5.90	**107.00**	5.20
USTH28-MW11	6/19/2007	**145.00**	4.50	3.60	7.20	**124.00**	6.20

Notes:
1. 2L GWQS = North Carolina groundwater quality standard 15A NCAC 2L .0202
2. GCL = Gross Contamination Levels for ground water as defined in "Guidelines for Assessment and Corrective Action" North Carolina Underground Storage Tank Section, effective July 1, 2001
3. All units are in ug/L (Micrograms per Liter)
4. BQL = Below Quantitaion Limits
5. A zero in the 2L GWQS row indicates the 2L Standard is equal to the laboratory detection limit
6. A zero in the GCL row indicates a GCL has not been established
7. Shaded concentrations indicate exceedance of the 2L GWQS
8. Only compounds which were detected are shown on table. All other compounds were BQL

TABLE 22.4

SITE H-28

GROUNDWATER LABORATORY ANALYTICAL RESULTS - JULY 2005 TO DECEMBER 2007

MADEP VPH/EPH

Contaminant of Concern →		C19-C36 Aliphatics	C9-C18 Aliphatics	C9-C22 Aromatics
Well ID	Date			
2L GWQS		42000	4200	210
GCL		0	0	0
USTH28-MW06	12/13/2005	BQL	BQL	BQL
USTH28-MW06	8/22/2006	BQL	BQL	BQL
USTH28-MW06	9/18/2006	BQL	BQL	BQL
USTH28-MW06	1/17/2007	BQL	BQL	BQL
USTH28-MW07	6/19/2007	BQL	BQL	BQL
USTH28-MW08	12/13/2005	330.00	970.00	BQL
USTH28-MW08	8/22/2006	130.00	BQL	BQL
USTH28-MW08	9/18/2006	BQL	270.00	**280.00**
USTH28-MW08	1/17/2007	BQL	BQL	BQL
USTH28-MW08	6/19/2007	BQL	BQL	**310.00**

Notes:
1. 2L GWQS = North Carolina groundwater quality standard 15A NCAC 2L .0202
2. GCL = Gross Contamination Levels for ground water as defined in "Guidelines for Assessment and Corrective Action" North Carolina Underground Storage Tank Section, effective July 1, 2001
3. All units are in ug/L (Micrograms per Liter)
4. BQL = Below Quantitaion Limits
5. A zero in the 2L GWQS row indicates the 2L Standard is equal to the laboratory detection limit
6. A zero in the GCL row indicates a GCL has not been established
7. Shaded concentrations indicate exceedance of the 2L GWQS
8. Only compounds which were detected are shown on table. All other compounds were BQL

TABLE 22.4

SITE H-28

GROUNDWATER LABORATORY ANALYTICAL RESULTS - JULY 2005 TO DECEMBER 2007

MADEP VPH/EPH

Contaminant of Concern →		C19-C36 Aliphatics	C9-C18 Aliphatics	C9-C22 Aromatics
Well ID	Date			
2L GWQS		42000	4200	210
GCL		0	0	0
USTH28-MW09	12/13/2005	BQL	BQL	BQL
USTH28-MW09	8/22/2006	BQL	BQL	BQL
USTH28-MW09	9/18/2006	BQL	BQL	BQL
USTH28-MW09	1/17/2007	BQL	BQL	BQL
USTH28-MW11	12/13/2005	BQL	840.00	**1310.00**
USTH28-MW11	8/22/2006	BQL	BQL	BQL
USTH28-MW11	9/18/2006	BQL	910.00	**1530.00**
USTH28-MW11	1/17/2007	BQL	1200.00	**1200.00**
USTH28-MW11	6/19/2007	BQL	BQL	BQL

Notes:
1. 2L GWQS = North Carolina groundwater quality standard 15A NCAC 2L .0202
2. GCL = Gross Contamination Levels for ground water as defined in "Guidelines for Assessment and Corrective Action" North Carolina Underground Storage Tank Section, effective July 1, 2001
3. All units are in ug/L (Micrograms per Liter)
4. BQL = Below Quantitaion Limits
5. A zero in the 2L GWQS row indicates the 2L Standard is equal to the laboratory detection limit
6. A zero in the GCL row indicates a GCL has not been established
7. Shaded concentrations indicate exceedance of the 2L GWQS
8. Only compounds which were detected are shown on table. All other compounds were BQL

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UST MANAGEMENT PROGRAM
CALENDAR YEAR 2007

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USTH28-MW01

USTH28-MW07

USTH28-MW10

H28

USTH28-MW08

USTH28-MW06

USTH28-MW09

USTH28-MW02

USTH28-MW11

USTH28-MW03

USTH28-MW04

USTH28-MW05

H21

CUTLER STREET

50 25 0 50 Feet

SCALE

LEGEND

Monitoring Wells
- Type I
- Type II
- Type III
- Pumping Well
- Unknown Well Type
- Water Supply Wells
- Above Ground Storage Tank
- Underground Storage Tank
- Railroad Tracks

Walls and Fences
- FENCE
- GATE
- WALL

Free Product
- Free Product Detected
- No Measurable Thickness
- Free Product Plume
- Buildings and Structures
- Demolished Structures
- Oil/Water Separators
- Slabs
- Roads
- Driveways
- Parking Lots
- Surface Water Bodies
- Creeks and Streams
- Historical Groundwater Flow Direction

Vegetation Cover
- Forestland
- Scrubland
- Wetland

Airfield Pavement
- HELIPAD
- RAMP
- RUNWAY
- SHLDR_OVERRUN
- TAXIWAY

NOTES

1. Free Product was not detected at this site in any of the wells gauged during this monitoring event.

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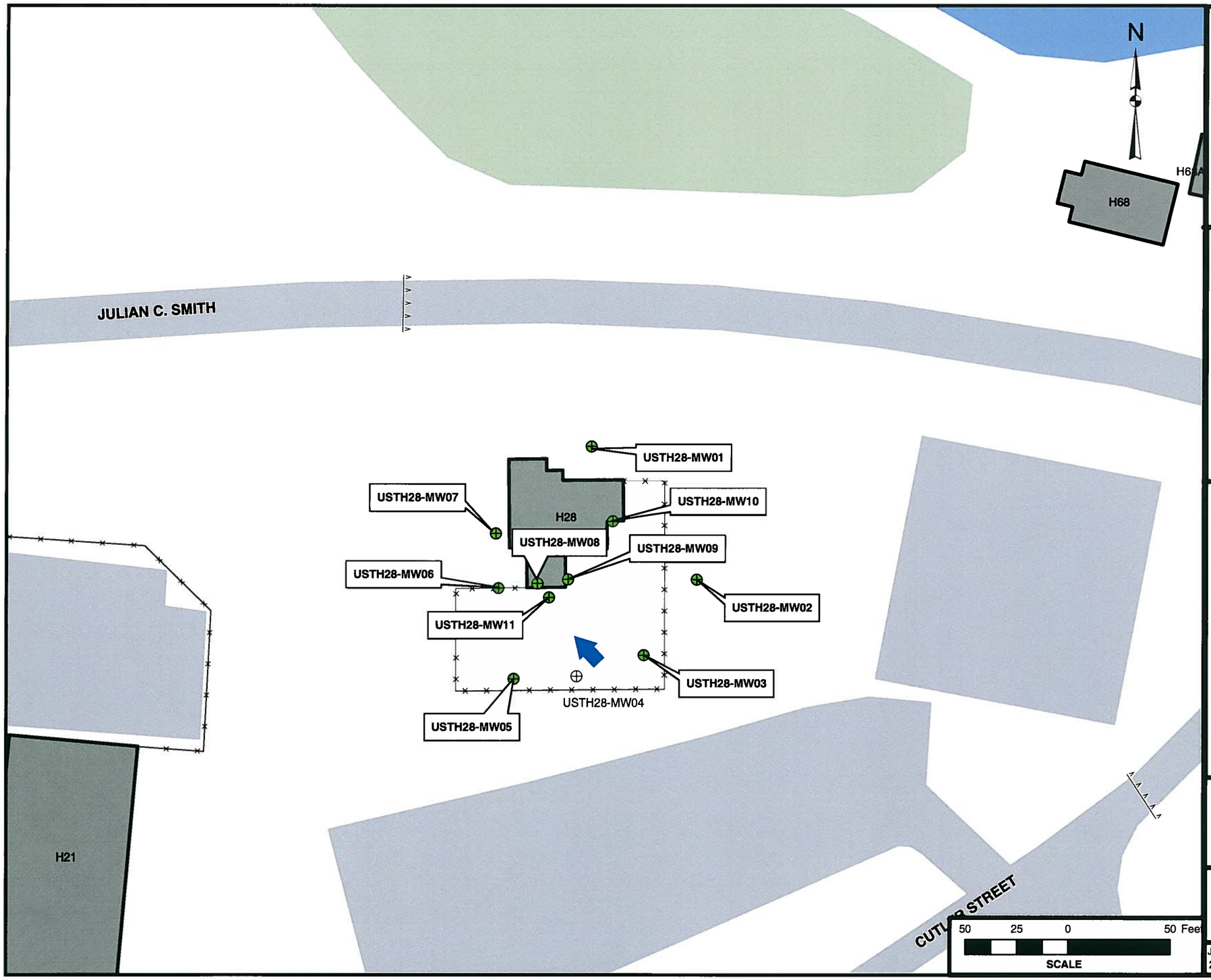
SITE H-28
FREE PRODUCT PLUME MAP
THIRD QUARTER 2006

FIGURE
22.1A

Job No.:	Date:	Scale:	Drawn By:	Checked By:
207-002	DEC 2007	AS SHOWN	SAC	MEM

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UST MANAGEMENT PROGRAM
CALENDAR YEAR 2007

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LEGEND

Monitoring Wells
- Type I
- Type II
- Type III
- Pumping Well
- Unknown Well Type
- Water Supply Wells
- Above Ground Storage Tank
- Underground Storage Tank
- Railroad Tracks

Walls and Fences
- FENCE
- GATE
- WALL

Free Product
- Free Product Detected
- No Measurable Thickness
- Free Product Plume
- Buildings and Structures
- Demolished Structures
- Oil/Water Separators
- Slabs
- Roads
- Driveways
- Parking Lots
- Surface Water Bodies
- Creeks and Streams
- Historical Groundwater Flow Direction

Vegetation Cover
- Forestland
- Scrubland
- Wetland

Airfield Pavement
- HELIPAD
- RAMP
- RUNWAY
- SHLDR_OVERRUN
- TAXIWAY

NOTES

1. Free Product was not detected at this site in any of the wells gauged during this monitoring event.

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SITE H-28
FREE PRODUCT PLUME MAP
FIRST QUARTER 2007

FIGURE **22.1B**

Job No.:	Date:	Scale:	Drawn By:	Checked By:
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CALENDAR YEAR 2007

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USTH28-MW01
USTH28-MW02
USTH28-MW03
USTH28-MW04
USTH28-MW05
USTH28-MW06
USTH28-MW07
USTH28-MW08
USTH28-MW09
USTH28-MW10
USTH28-MW11

CUTLER STREET

50 25 0 50 Feet
SCALE

LEGEND

Monitoring Wells
- Type I
- Type II
- Type III
- Pumping Well
- Unknown Well Type
- Water Supply Wells
- Above Ground Storage Tank
- Underground Storage Tank
- Railroad Tracks

Walls and Fences
- FENCE
- GATE
- WALL

Free Product
- Free Product Detected
- No Measurable Thickness
- Free Product Plume
- Buildings and Structures
- Demolished Structures
- Oil/Water Separators
- Slabs
- Roads
- Driveways
- Parking Lots
- Surface Water Bodies
- Creeks and Streams
- Historical Groundwater Flow Direction

Vegetation Cover
- Forestland
- Scrubland
- Wetland

Airfield Pavement
- HELIPAD
- RAMP
- RUNWAY
- SHLDR_OVERRUN
- TAXIWAY

NOTES

1. Free Product was not detected at this site in any of the wells gauged during this monitoring event.

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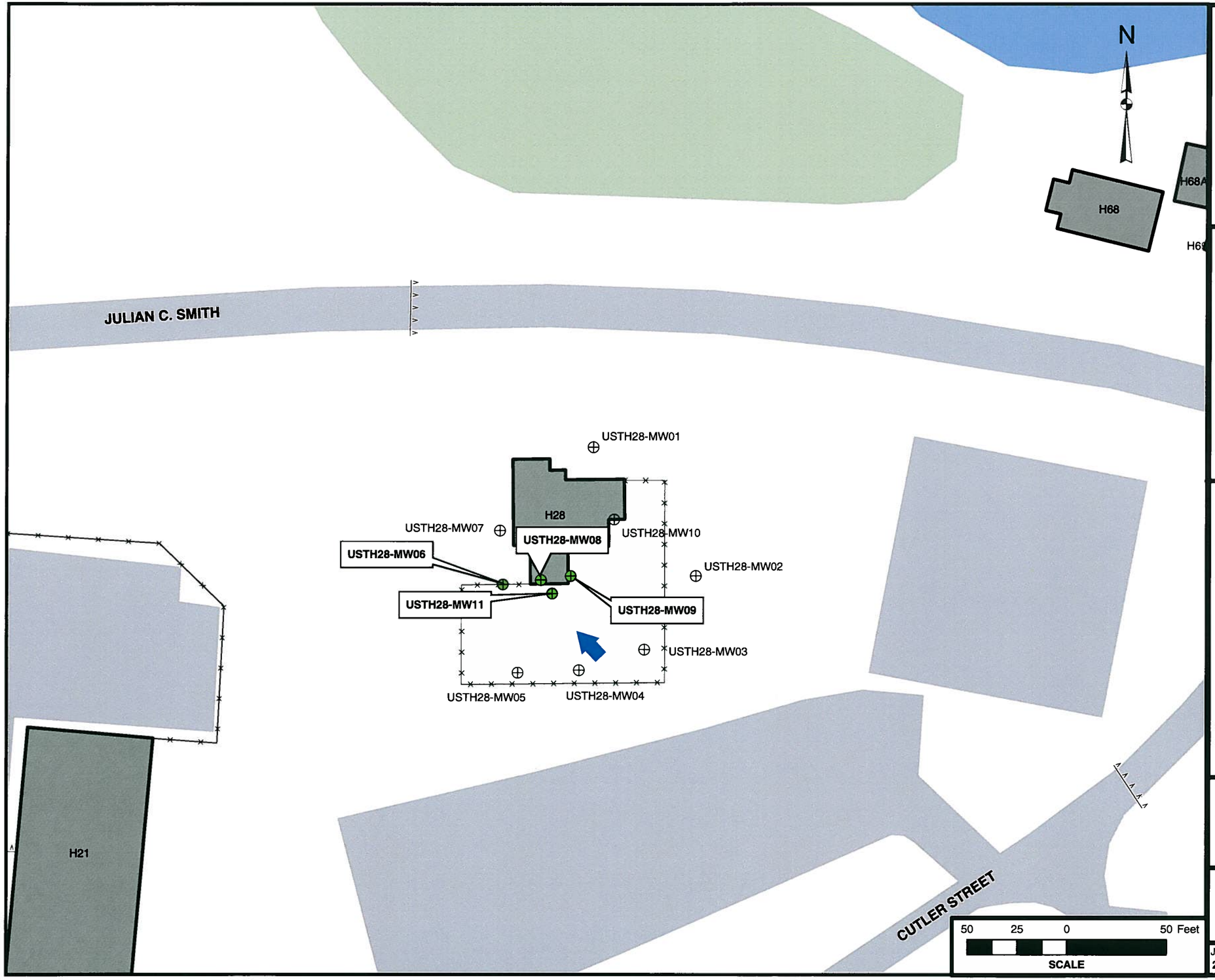
SITE H-28
FREE PRODUCT PLUME MAP
SECOND QUARTER 2007

FIGURE **22.1C**

Job No.:	Date:	Scale:	Drawn By:	Checked By:
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CALENDAR YEAR 2007

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LEGEND

Monitoring Wells
- Type I
- Type II
- Type III
- Pumping Well
- Unknown Well Type
- Water Supply Wells
- Above Ground Storage Tank
- Underground Storage Tank
- Railroad Tracks

Walls and Fences
- FENCE
- GATE
- WALL

Analytical Results
- Free Product Detected
- 2L Non-Compliant
- 2L Compliant
- EPA 602 Plume

Buildings and Structures
- Demolished Structures
- Oil/Water Separators
- Slabs
- Roads
- Driveways
- Parking Lots
- Surface Water Bodies
- Creeks and Streams
- Historical Groundwater Flow Direction

Vegetation Cover
- Forestland
- Scrubland
- Wetland

Airfield Pavement
- HELIPAD
- RAMP
- RUNWAY
- SHLDR_OVERRUN
- TAXIWAY

NOTES

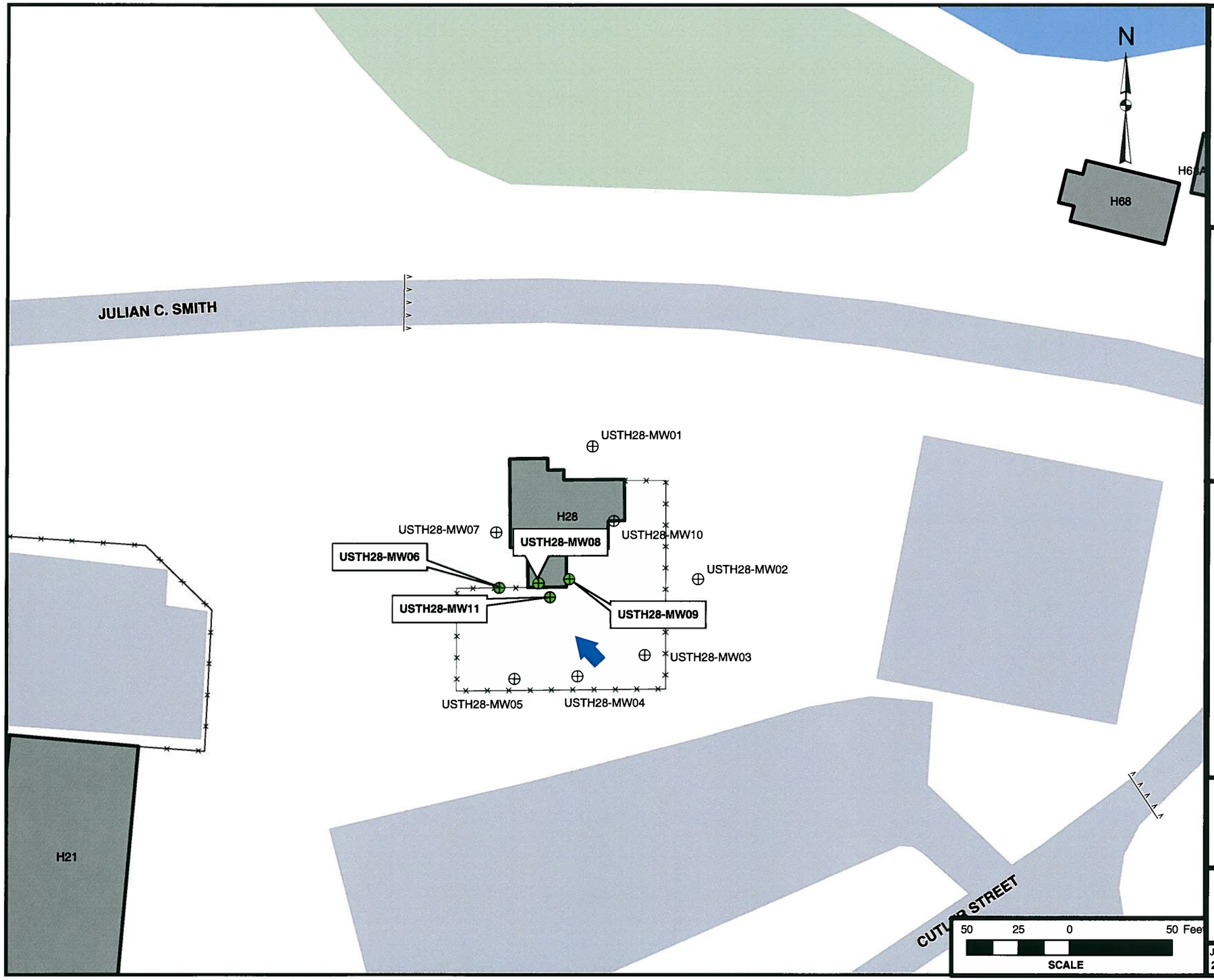
1. No EPA Method 602 compounds were detected above the 2L GWQS for any wells sampled during this monitoring event.

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SITE H-28
EPA METHOD 602 COLORIMETRY AND PLUME IN EXCESS OF 2L THIRD QUARTER 2006

FIGURE **22.2A**

Job No.:	Date:	Scale:	Drawn By:	Checked By:
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CALENDAR YEAR 2007

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LEGEND

Monitoring Wells
- Type I
- Type II
- Type III
- Pumping Well
- Unknown Well Type
- Water Supply Wells
- Above Ground Storage Tank
- Underground Storage Tank
- Railroad Tracks

Walls and Fences
- FENCE
- GATE
- WALL

Analytical Results
- Free Product Detected
- 2L Non-Compliant
- 2L Compliant
- EPA 602 Plume

Buildings and Structures
- Demolished Structures
- Oil/Water Separators
- Slabs
- Roads
- Driveways
- Parking Lots
- Surface Water Bodies
- Creeks and Streams
- Historical Groundwater Flow Direction

Vegetation Cover
- Forestland
- Scrubland
- Wetland

Airfield Pavement
- HELIPAD
- RAMP
- RUNWAY
- SHLDR_OVERRUN
- TAXIWAY

NOTES

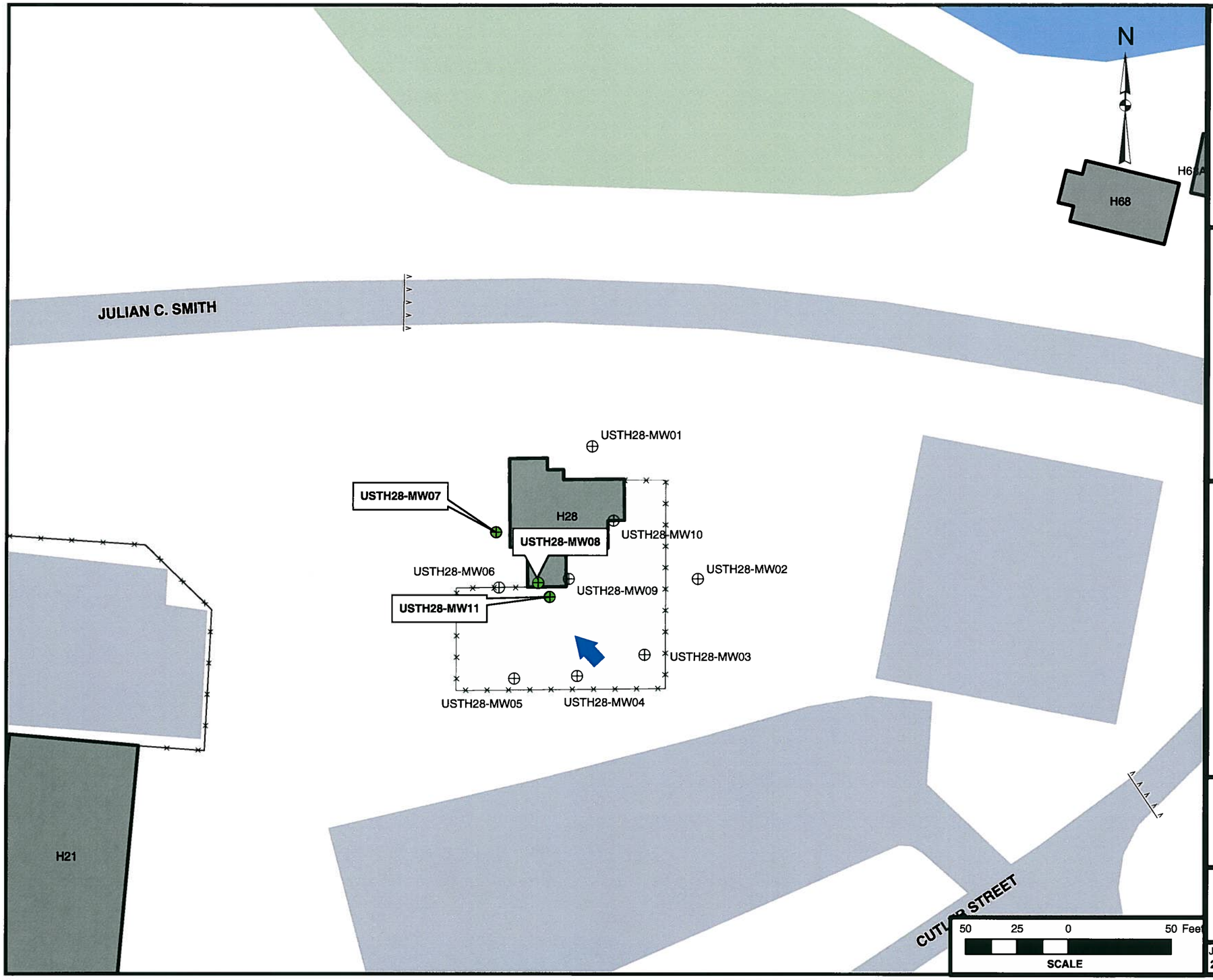
1. No EPA Method 602 compounds were detected above the 2L GWQS for any wells sampled during this monitoring event.

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SITE H-28
EPA METHOD 602 COLORIMETRY AND PLUME IN EXCESS OF 2L
FIRST QUARTER 2007

FIGURE **22.2B**

Job No.:	Date:	Scale:	Drawn By:	Checked By:
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UST MANAGEMENT PROGRAM
CALENDAR YEAR 2007

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LEGEND

Monitoring Wells
- Type I
- Type II
- Type III
- Pumping Well
- Unknown Well Type
- Water Supply Wells
- Above Ground Storage Tank
- Underground Storage Tank
- Railroad Tracks

Walls and Fences
- FENCE
- GATE
- WALL

Analytical Results
- Free Product Detected
- 2L Non-Compliant
- 2L Compliant
- EPA 602 Plume

Buildings and Structures
- Demolished Structures
- Oil/Water Separators
- Slabs
- Roads
- Driveways
- Parking Lots
- Surface Water Bodies
- Creeks and Streams
- Historical Groundwater Flow Direction

Vegetation Cover
- Forestland
- Scrubland
- Wetland

Airfield Pavement
- HELIPAD
- RAMP
- RUNWAY
- SHLDR_OVERRUN
- TAXIWAY

NOTES

1. No EPA Method 602 compounds were detected above the 2L GWQS for any wells sampled during this monitoring event.

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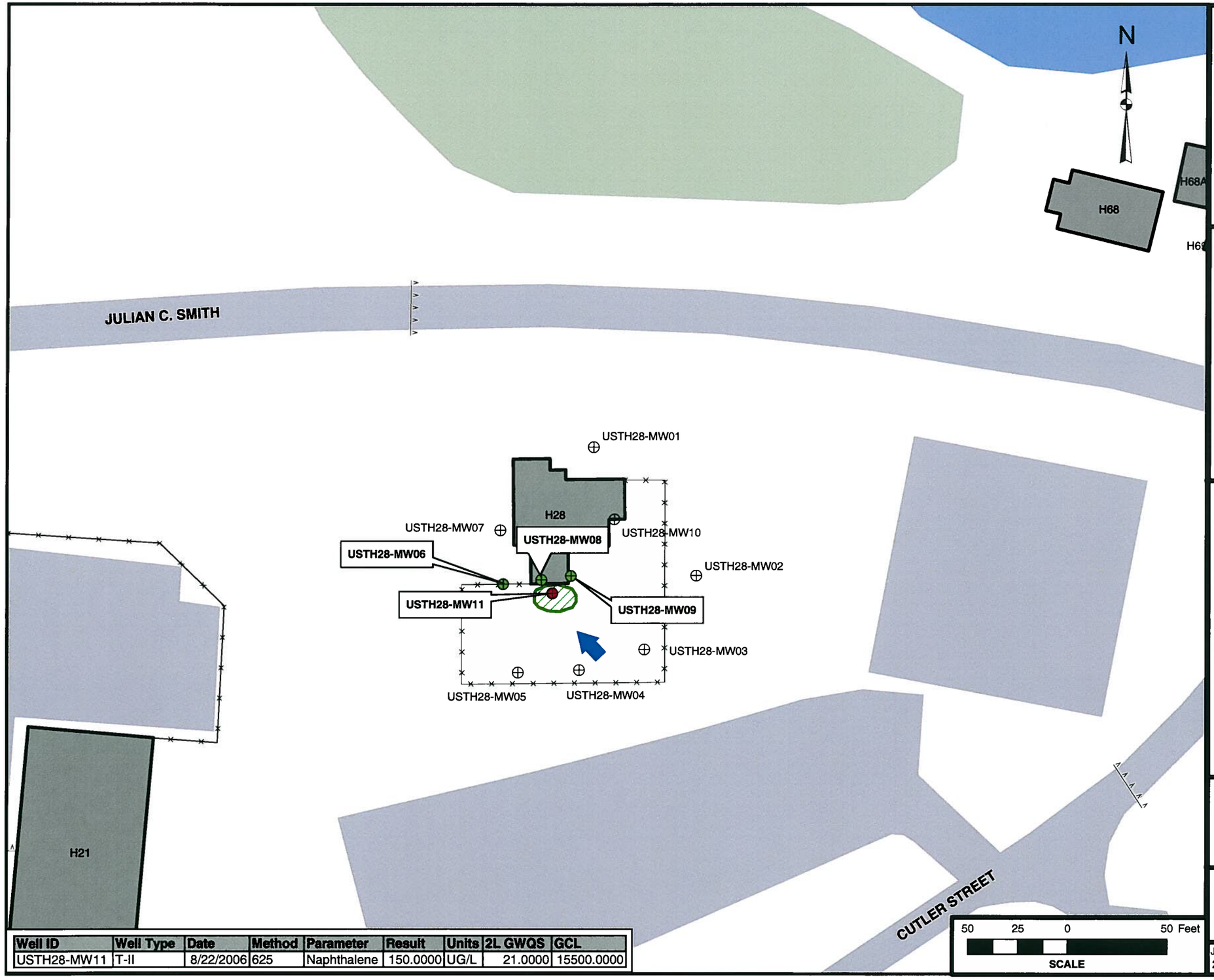
SITE H-28
EPA METHOD 602 COLORIMETRY AND PLUME IN EXCESS OF 2L
SECOND QUARTER 2007

FIGURE **22.2C**

Job No.:	Date:	Scale:	Drawn By:	Checked By:
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UST MANAGEMENT PROGRAM
CALENDAR YEAR 2007

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LEGEND

Monitoring Wells
- Type I
- Type II
- Type III
- Pumping Well
- Unknown Well Type
- Water Supply Wells
- Above Ground Storage Tank
- Underground Storage Tank
- Railroad Tracks

Walls and Fences
- FENCE
- GATE
- WALL

Analytical Results
- Free Product Detected
- 2L Non-Compliant
- 2L Compliant
- EPA 625 Plume

Buildings and Structures
- Demolished Structures
- Oil/Water Separators
- Slabs
- Roads
- Driveways
- Parking Lots
- Surface Water Bodies
- Creeks and Streams
- Historical Groundwater Flow Direction

Vegetation Cover
- Forestland
- Scrubland
- Wetland

Airfield Pavement
- HELIPAD
- RAMP
- RUNWAY
- SHLDR_OVERRUN
- TAXIWAY

NOTES

1. 2L Standard refers to North Carolina Groundwater Quality Standard 15A NCAC 2L.0202.
2. GCL refers to Gross Contaminant Level as defined in "Guidelines for the Assessment and Corrective Action" North Carolina Underground Storage Tank Section, effective July 1, 2001.
3. A 2L Standard of "0.00" implies a standard has not yet been established. According to NCAC T15:02L, any compound found above laboratory detection limits is considered noncompliant unless otherwise specified by the NCDENR.

Well ID	Well Type	Date	Method	Parameter	Result	Units	2L GWQS	GCL
USTH28-MW11	T-II	8/22/2006	625	Naphthalene	150.0000	UG/L	21.0000	15500.0000

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SITE H-28
EPA METHOD 625 COLORIMETRY AND PLUME IN EXCESS OF 2L THIRD QUARTER 2006

FIGURE 22.3A

Job No.:	Date:	Scale:	Drawn By:	Checked By:
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UST MANAGEMENT PROGRAM
CALENDAR YEAR 2007

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USTH28-MW01

H28

USTH28-MW07

USTH28-MW08

USTH28-MW10

USTH28-MW06

USTH28-MW02

USTH28-MW11

USTH28-MW09

USTH28-MW03

USTH28-MW05

USTH28-MW04

H21

CUTLER STREET

50 25 0 50 Feet

SCALE

LEGEND

Monitoring Wells
- Type I
- Type II
- Type III
- Pumping Well
- Unknown Well Type
- Water Supply Wells
- Above Ground Storage Tank
- Underground Storage Tank
- Railroad Tracks

Walls and Fences
- FENCE
- GATE
- WALL

Analytical Results
- Free Product Detected
- 2L Non-Compliant
- 2L Compliant
- EPA 625 Plume

Buildings and Structures
- Demolished Structures
- Oil/Water Separators
- Slabs
- Roads
- Driveways
- Parking Lots
- Surface Water Bodies
- Creeks and Streams
- Historical Groundwater Flow Direction

Vegetation Cover
- Forestland
- Scrubland
- Wetland

Airfield Pavement
- HELIPAD
- RAMP
- RUNWAY
- SHLDR_OVERRUN
- TAXIWAY

NOTES

1. 2L Standard refers to North Carolina Groundwater Quality Standard 15A NCAC 2L.0202.
2. GCL refers to Gross Contaminant Level as defined in "Guidelines for the Assessment and Corrective Action" North Carolina Underground Storage Tank Section, effective July 1, 2001.
3. A 2L Standard of "0.00" implies a standard has not yet been established. According to NCAC T15:02L, any compound found above laboratory detection limits is considered noncompliant unless otherwise specified by the NCDENR.

Well ID	Well Type	Date	Method	Parameter	Result	Units	2L GWQS	GCL
USTH28-MW11	T-II	1/17/2007	625	Naphthalene	107.0000	UG/L	21.0000	15500.0000

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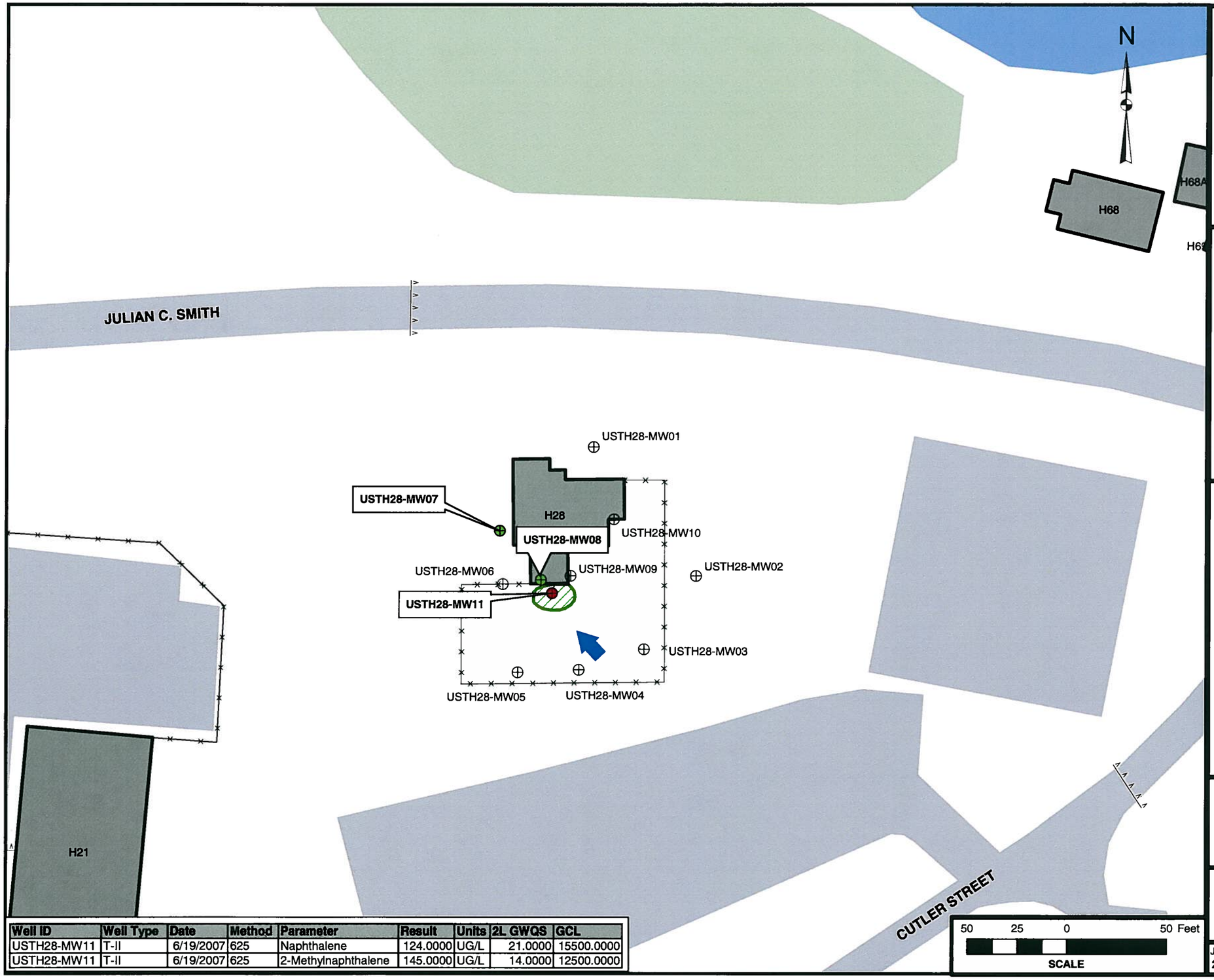
SITE H-28
EPA METHOD 625 COLORIMETRY AND PLUME IN EXCESS OF 2L FIRST QUARTER 2007

FIGURE
22.3B

Job No.:	Date:	Scale:	Drawn By:	Checked By:
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MCB CAMP LEJEUNE
UST MANAGEMENT PROGRAM
CALENDAR YEAR 2007

NAVFAC
Naval Facilities Engineering Command



LEGEND

Monitoring Wells
- Type I
- Type II
- Type III
- Pumping Well
- Unknown Well Type
- Water Supply Wells
- Above Ground Storage Tank
- Underground Storage Tank
- Railroad Tracks

Walls and Fences
- FENCE
- GATE
- WALL

Analytical Results
- Free Product Detected
- 2L Non-Compliant
- 2L Compliant
- EPA 625 Plume

Buildings and Structures
- Demolished Structures
- Oil/Water Separators
- Slabs
- Roads
- Driveways
- Parking Lots
- Surface Water Bodies
- Creeks and Streams
- Historical Groundwater Flow Direction

Vegetation Cover
- Forestland
- Scrubland
- Wetland

Airfield Pavement
- HELIPAD
- RAMP
- RUNWAY
- SHLDR_OVERRUN
- TAXIWAY

NOTES

1. 2L Standard refers to North Carolina Groundwater Quality Standard 15A NCAC 2L.0202.
2. GCL refers to Gross Contaminant Level as defined in "Guidelines for the Assessment and Corrective Action" North Carolina Underground Storage Tank Section, effective July 1, 2001.
3. A 2L Standard of "0.00" implies a standard has not yet been established. According to NCAC T15:02L, any compound found above laboratory detection limits is considered noncompliant unless otherwise specified by the NCDENR.

Well ID	Well Type	Date	Method	Parameter	Result	Units	2L GWQS	GCL
USTH28-MW11	T-II	6/19/2007	625	Naphthalene	124.0000	UG/L	21.0000	15500.0000
USTH28-MW11	T-II	6/19/2007	625	2-Methylnaphthalene	145.0000	UG/L	14.0000	12500.0000

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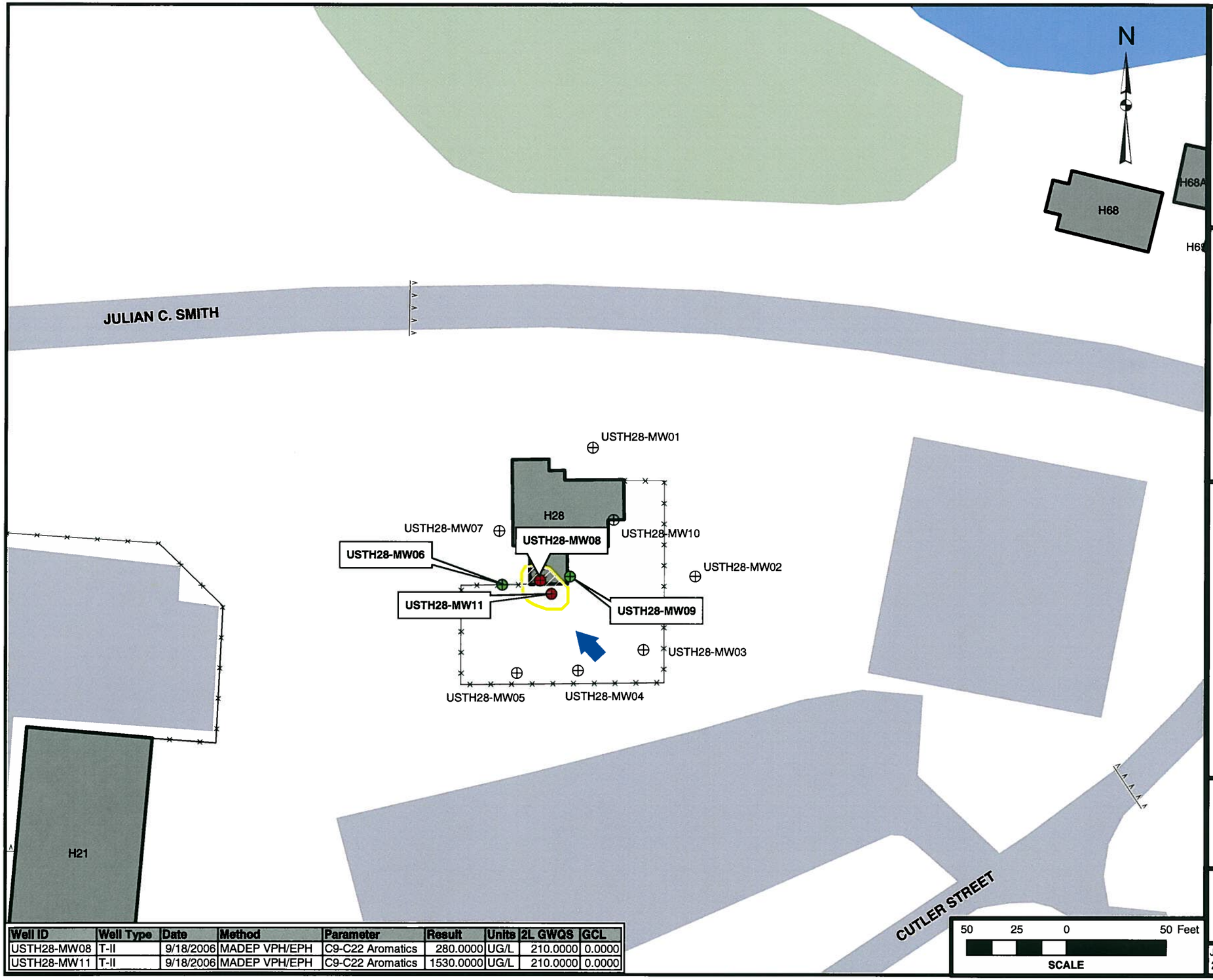
SITE H-28
EPA METHOD 625 COLORIMETRY AND PLUME IN EXCESS OF 2L SECOND QUARTER 2007

FIGURE
22.3C

Job No.:	Date:	Scale:	Drawn By:	Checked By:
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MCB CAMP LEJEUNE
UST MANAGEMENT PROGRAM
CALENDAR YEAR 2007

NAVFAC
Naval Facilities Engineering Command



LEGEND

Monitoring Wells
- Type I
- Type II
- Type III
- Pumping Well
- Unknown Well Type
- Water Supply Wells
- Above Ground Storage Tank
- Underground Storage Tank
- Railroad Tracks

Walls and Fences
- FENCE
- GATE
- WALL

Analytical Results
- Free Product Detected
- 2L Non-Compliant
- 2L Compliant
- MADEP Plume
- Buildings and Structures
- Demolished Structures
- Oil/Water Separators
- Slabs
- Roads
- Driveways
- Parking Lots
- Surface Water Bodies
- Creeks and Streams
- Historical Groundwater Flow Direction

Vegetation Cover
- Forestland
- Scrubland
- Wetland

Airfield Pavement
- HELIPAD
- RAMP
- RUNWAY
- SHLDR_OVERRUN
- TAXIWAY

NOTES

1. 2L Standard refers to North Carolina Groundwater Quality Standard 15A NCAC 2L.0202.
2. GCL refers to Gross Contaminant Level as defined in "Guidelines for the Assessment and Corrective Action" North Carolina Underground Storage Tank Section, effective July 1, 2001.
3. A 2L Standard of "0.00" implies a standard has not yet been established. According to NCAC T15:02L, any compound found above laboratory detection limits is considered noncompliant unless otherwise specified by the NCDENR.

Well ID	Well Type	Date	Method	Parameter	Result	Units	2L GWQS	GCL
USTH28-MW08	T-II	9/18/2006	MADEP VPH/EPH	C9-C22 Aromatics	280.0000	UG/L	210.0000	0.0000
USTH28-MW11	T-II	9/18/2006	MADEP VPH/EPH	C9-C22 Aromatics	1530.0000	UG/L	210.0000	0.0000

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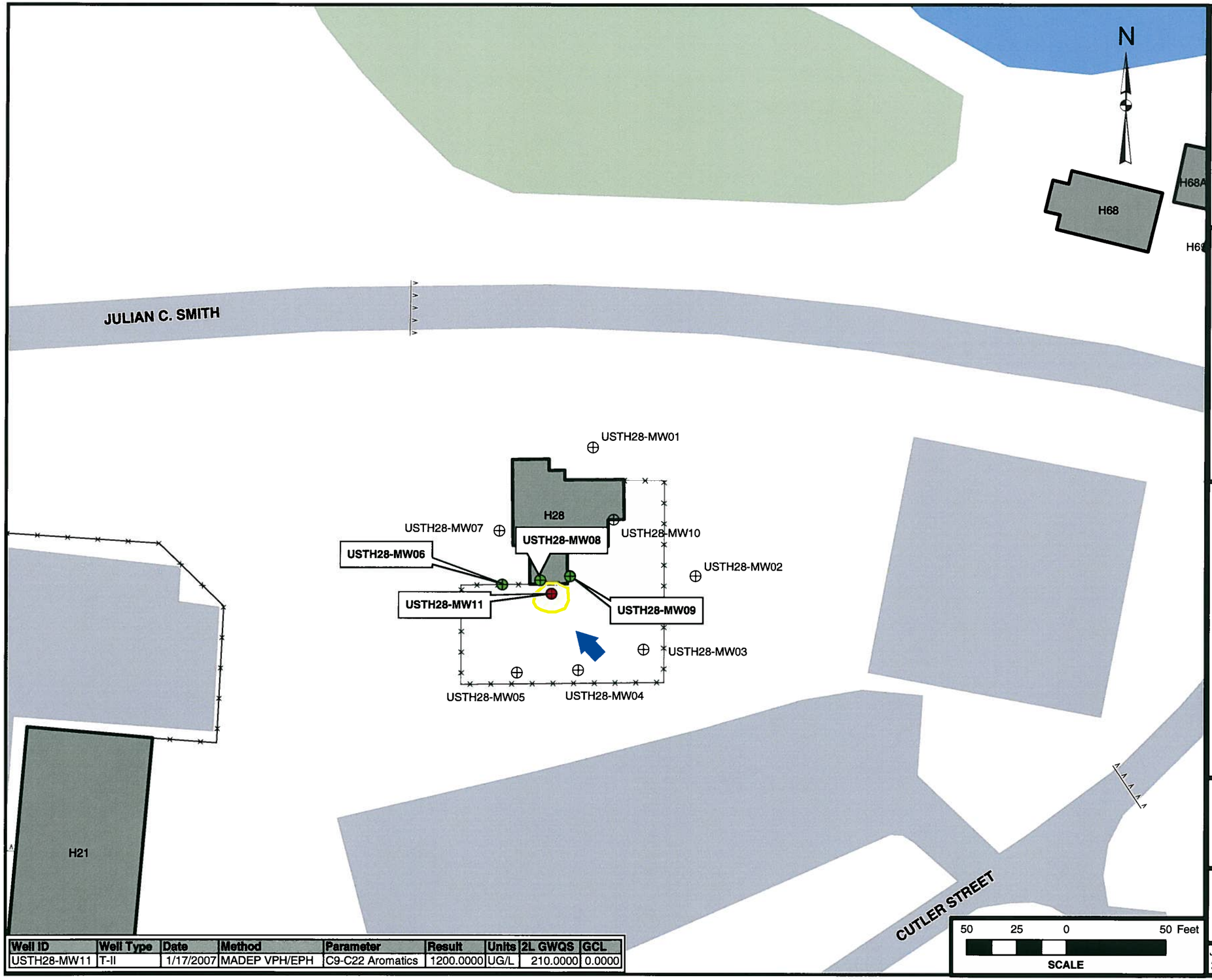
SITE H-28
MADEP VPH/EPH COLORIMETRY AND PLUME IN EXCESS OF 2L THIRD QUARTER 2006

FIGURE
22.4A

Job No.:	Date:	Scale:	Drawn By:	Checked By:
207-002	JAN 2008	AS SHOWN	SAC	MEM

MCB CAMP LEJEUNE
UST MANAGEMENT PROGRAM
CALENDAR YEAR 2007

NAVFAC
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LEGEND

Monitoring Wells
- Type I
- Type II
- Type III
- Pumping Well
- Unknown Well Type
- Water Supply Wells
- Above Ground Storage Tank
- Underground Storage Tank
- Railroad Tracks

Walls and Fences
- FENCE
- GATE
- WALL

Analytical Results
- Free Product Detected
- 2L Non-Compliant
- 2L Compliant
- MADEP Plume

Buildings and Structures
- Demolished Structures
- Oil/Water Separators
- Slabs
- Roads
- Driveways
- Parking Lots
- Surface Water Bodies
- Creeks and Streams
- Historical Groundwater Flow Direction

Vegetation Cover
- Forestland
- Scrubland
- Wetland

Airfield Pavement
- HELIPAD
- RAMP
- RUNWAY
- SHLDR_OVERRUN
- TAXIWAY

NOTES

1. 2L Standard refers to North Carolina Groundwater Quality Standard 15A NCAC 2L.0202.
2. GCL refers to Gross Contaminant Level as defined in "Guidelines for the Assessment and Corrective Action" North Carolina Underground Storage Tank Section, effective July 1, 2001.
3. A 2L Standard of "0.00" implies a standard has not yet been established. According to NCAC T15:02L, any compound found above laboratory detection limits is considered noncompliant unless otherwise specified by the NCDENR.

Well ID	Well Type	Date	Method	Parameter	Result	Units	2L GWQS	GCL
USTH28-MW11	T-II	1/17/2007	MADEP VPH/EPH	C9-C22 Aromatics	1200.0000	UG/L	210.0000	0.0000

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SITE H-28
MADEP VPH/EPH COLORIMETRY AND PLUME IN EXCESS OF 2L FIRST QUARTER 2007

FIGURE
22.4B

Job No.:	Date:	Scale:	Drawn By:	Checked By:
207-002	JAN 2008	AS SHOWN	SAC	MEM

MCB CAMP LEJEUNE
UST MANAGEMENT PROGRAM
CALENDAR YEAR 2007

NAVFAC
Naval Facilities Engineering Command

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JULIAN C. SMITH

H68

H68A

H21

H28

USTH28-MW01
USTH28-MW02
USTH28-MW03
USTH28-MW04
USTH28-MW05
USTH28-MW06
USTH28-MW07
USTH28-MW08
USTH28-MW09
USTH28-MW10
USTH28-MW11

CUTLER STREET

LEGEND

Monitoring Wells
- Type I
- Type II
- Type III
- Pumping Well
- Unknown Well Type
- Water Supply Wells
- Above Ground Storage Tank
- Underground Storage Tank
- Railroad Tracks

Walls and Fences
- FENCE
- GATE
- WALL

Analytical Results
- Free Product Detected
- 2L Non-Compliant
- 2L Compliant
- MADEP Plume
- Buildings and Structures
- Demolished Structures
- Oil/Water Separators
- Slabs
- Roads
- Driveways
- Parking Lots
- Surface Water Bodies
- Creeks and Streams
- Historical Groundwater Flow Direction

Vegetation Cover
- Forestland
- Scrubland
- Wetland

Airfield Pavement
- HELIPAD
- RAMP
- RUNWAY
- SHLDR_OVERRUN
- TAXIWAY

NOTES

1. 2L Standard refers to North Carolina Groundwater Quality Standard 15A NCAC 2L.0202.
2. GCL refers to Gross Contaminant Level as defined in "Guidelines for the Assessment and Corrective Action" North Carolina Underground Storage Tank Section, effective July 1, 2001.
3. A 2L Standard of "0.00" implies a standard has not yet been established. According to NCAC T15:02L, any compound found above laboratory detection limits is considered noncompliant unless otherwise specified by the NCDENR.

Well ID	Well Type	Date	Method	Parameter	Result	Units	2L GWQS	GCL
USTH28-MW08	T-II	6/19/2007	MADEP VPH/EPH	C9-C22 Aromatics	310.0000	UG/L	210.0000	0.0000

50 25 0 50 Feet
SCALE

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SITE H-28
MADEP VPH/EPH COLORIMETRY AND PLUME IN EXCESS OF 2L SECOND QUARTER 2007

FIGURE
22.4C

Job No.:	Date:	Scale:	Drawn By:	Checked By:
207-002	JAN 2008	AS SHOWN	SAC	MEM

SECTION 23.0

OF THE

ANNUAL MANAGEMENT REPORT
MCB CAMP LEJEUNE UST MANAGEMENT PROGRAM

MONITORING EVENT:

YEAR 2007
(JANUARY – DECEMBER 2007)

SITE-SPECIFIC MONITORING REPORT
FOR

SITE H-30

NCDENR INCIDENT NO. 23091

23.0 EXECUTIVE SUMMARY
SITE H-30

23.1 Site Information

23.1.1 Site Location: MCB Camp Lejeune
23.1.2 Incident Number(s): 23091
23.1.3 UTM Coordinates (WGS84) (Meters): 283447.91 Easting, 3839747.60 Northing
23.1.4 Risk Classification: Low
23.1.5 Land Use Classification: Residential
23.1.6 Source Type(s): Two 560 gallon #2 Fuel Oil USTs

23.2 Monitoring Event Information

23.2.1 Sampling Performed By: CATLIN
23.2.2 Date(s) of This Monitoring Event: July 2007
23.2.3 Date(s) of Previous Monitoring Event: Previous groundwater sampling conducted in April 2001.
23.2.4 Reason(s) for This Monitoring Event: Determine if groundwater contaminants attenuated to concentrations below the 2L GWQSs.
23.2.5 Site Monitoring Status at Time of This Event: Site was approved for NFA with LURs in June 2005; the subject site was re-sampled during this monitoring period to determine if contaminant levels had naturally attenuated to below the 2L GWQS.

23.3 Groundwater Hydraulics

23.3.1 Hydraulic Conductivity: Unknown
23.3.2 Effective Porosity: Unknown
23.3.3 Hydraulic Gradient: Unknown
23.3.4 Average Linear Groundwater Flow Velocity: Unknown
23.3.5 Groundwater Flow Direction: Unknown
23.3.6 Range of Measured Water Table Elevations: Not Measured. However, depth to groundwater from the temporary well installed in July 2007 was measured at approximately 5.2 feet BLS.
23.3.7 Significant Changes from Previously Reported Data: None

23.4 Free Product Plume

23.4.1 Free Product Present?: No. Removed as of 1998.
23.4.2 Free Product Thickness Measured: Not Applicable
23.4.3 Plume Size and Location: Not Applicable
23.4.4 Free Product Removed from Site This Period: Not Applicable
23.4.5 Significant Changes from Previously Reported Data: None

23.5 Dissolved-Phase Plume

23.5.1 Plume Concentrations: See Figure 23.1
23.5.2 Plume Size and Location: See Figure 23.1
23.5.3 Significant Changes from Previously Reported Data: The groundwater sampling analytical results from April 2001 as compared to the current analytical results (July 2007) are discussed as follows:

MADEP VPH/EPH

The analytical results from this the April 2001 sampling event revealed MADEP hydrocarbon fractions above the 2L GWQS in one monitoring well (USTH30-MW12). Please note monitoring well USTH30-MW12 was abandoned during a May 2005 soil excavation. Therefore, CATLIN installed a temporary monitoring well in the vicinity of former monitoring well USTH30-MW12 and collected a groundwater sample in July 2007 to evaluate current groundwater conditions at the site. The groundwater sample analytical results from the current sampling event revealed the C_9-C_{22} Aromatics fraction at a concentration of <290 ug/L which is above the 2L GWQS of 210 ug/L for this compound. See Figure 23.1.

23.6 Potential Receptors

23.6.1 Contaminated Water Supply Well(s)?: None
23.6.2 Potable Water Supply Well Within 1,000 Feet of Source Area?: No
23.6.3 Any Water Supply Well Within 250 Feet of Source Area?: No
23.6.4 Surface Water Body Within 500 Feet?: Yes. Wallace Creek is located approximately 150 feet northeast of the subject site.
23.6.5 Past Evidence of Vapors?: No
23.6.6 Significant Changes from Previously Reported Data?: None

23.7 Remediation

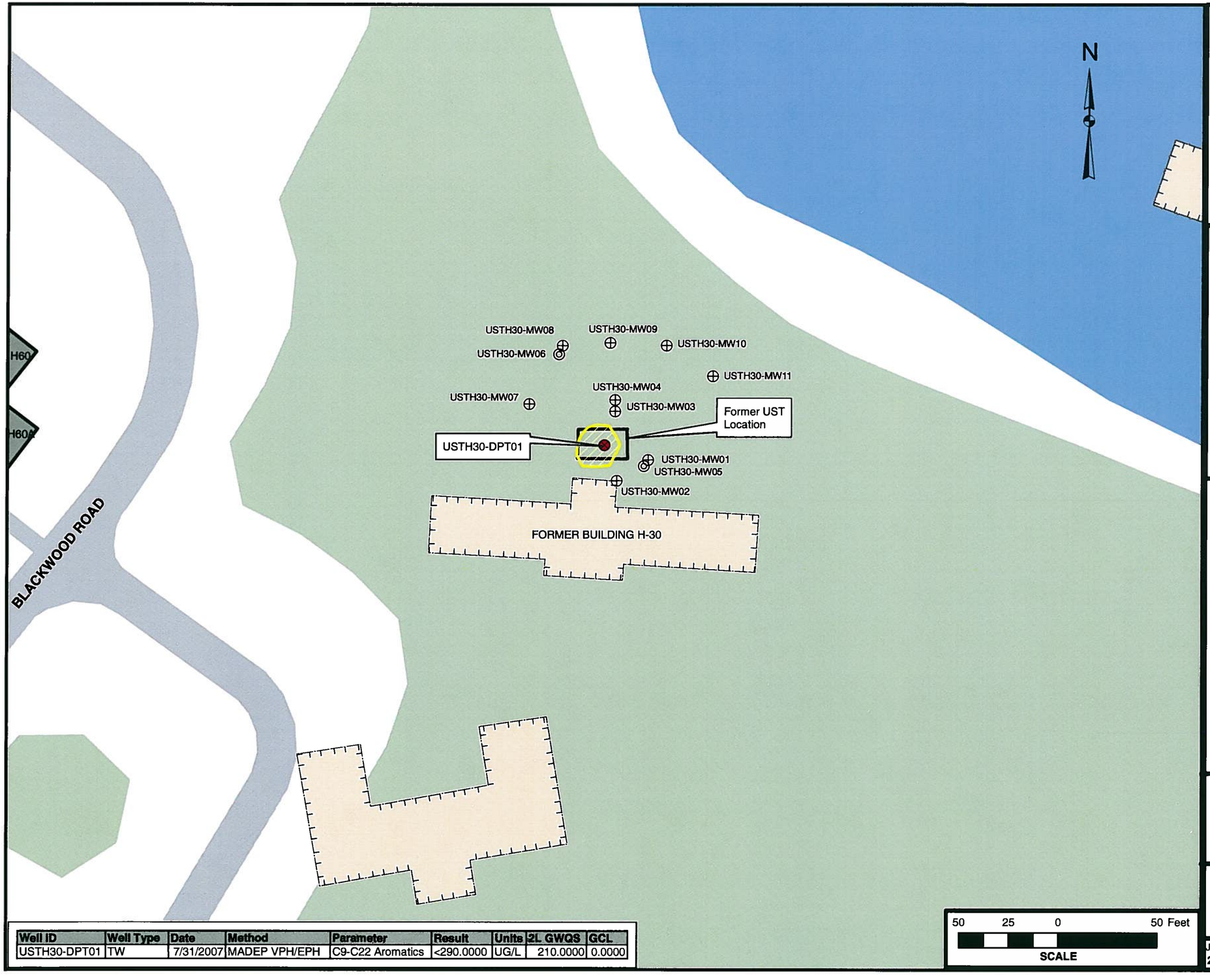
23.7.1 Status: Complete
23.7.2 Type: Soil Excavation
23.7.3 Progress: Complete
23.7.4 Construction Contractor: Shaw
23.7.5 Operating Contractor: None

23.8 Observations and Comments

The C_9-C_{22} Aromatic concentration previously detected in groundwater at the H-30 site has not naturally attenuated to below the 2L GWQS of 210 µg/L. Current groundwater contaminant concentrations continue to prevent the site from qualifying for NFA without a groundwater LUR. CATLIN recommends resampling groundwater in two years at the subject site.

MCB CAMP LEJEUNE
UST MANAGEMENT PROGRAM
CALENDAR YEAR 2007

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LEGEND

- DPT Well
- Water Supply Wells
- Above Ground Storage Tank
- Underground Storage Tank
- Railroad Tracks

Walls and Fences
- FENCE
- GATE
- WALL

Analytical Results
- 2L Non-Compliant
- 2L Compliant
- MADEP Plume
- Buildings and Structures
- Demolished Structures
- Oil/Water Separators
- Slabs
- Roads
- Driveways
- Parking Lots
- Surface Water Bodies
- Creeks and Streams

Vegetation Cover
- Forestland
- Scrubland
- Wetland

Airfield Pavement
- HELIPAD
- RAMP
- RUNWAY
- SHLDR_OVERRUN
- TAXIWAY

NOTES

1. 2L Standard refers to North Carolina Groundwater Quality Standard 15A NCAC 2L.0202.
2. GCL refers to Gross Contaminant Level as defined in "Guidelines for the Assessment and Corrective Action" North Carolina Underground Storage Tank Section, effective July 1, 2001.
3. A 2L Standard of "0.00" implies a standard has not yet been established. According to NCAC T15:02L, any compound found above laboratory detection limits is considered noncompliant unless otherwise specified by the NCDENR.

Well ID	Well Type	Date	Method	Parameter	Result	Units	2L GWQS	GCL
USTH30-DPT01	TW	7/31/2007	MADEP VPH/EPH	C9-C22 Aromatics	<290.0000	UG/L	210.0000	0.0000

50 25 0 50 Feet
SCALE

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SITE H-30
MADEP VPH/EPH COLORIMETRY AND PLUME IN EXCESS OF 2L - THIRD QUARTER 2007

FIGURE
23.1

Job No.:	Date:	Scale:	Drawn By:	Checked By:
207-002	JAN 2008	AS SHOWN	KAWS	MEM

SECTION 24.0

OF THE

ANNUAL MANAGEMENT REPORT
MCB CAMP LEJEUNE UST MANAGEMENT PROGRAM

MONITORING EVENT:

YEAR 2007
(JANUARY – DECEMBER 2007)

SITE-SPECIFIC MONITORING REPORT
FOR

SITE HPFF

NCDENR INCIDENT NOs. 3671, 10615, 22788

24.0 EXECUTIVE SUMMARY
SITE HPFF

24.1 Site Information

24.1.1 Site Location: MCB Camp Lejeune
24.1.2 Incident Number(s): 3671, 10615, and 22788
24.1.3 UTM Coordinates (WGS84) (Meters): 286201.76 Easting, 3839136.22 Northing
24.1.4 Risk Classification: Intermediate
24.1.5 Land Use Classification: Industrial/Commercial
24.1.6 Source Type(s): Various sized USTs and ASTs containing Gasoline, Diesel Fuel and Kerosene

24.2 Monitoring Event Information

24.2.1 Sampling Performed By: Shaw
24.2.2 Date(s) of This Monitoring Event: August 2007
24.2.3 Date(s) of Previous Monitoring Event: January and October 2006
24.2.4 Reason(s) for This Monitoring Event: Track migration and attenuation of free-phase product and dissolved-phase plume.
24.2.5 Site Monitoring Status at Time of This Event: Annual sampling of approximately 75 monitoring wells per EPA Method 8260.

24.3 Groundwater Hydraulics

24.3.1 Hydraulic Conductivity: 23 ft/day (1994 CSA by CATLIN)
24.3.2 Effective Porosity: 0.25 (1994 CSA by CATLIN)
24.3.3 Hydraulic Gradient: 0.00562 feet/feet (1994 CSA by CATLIN)
24.3.4 Average Linear Groundwater Flow Velocity: 0.52 feet/day (1994 CSA by CATLIN)
24.3.5 Groundwater Flow Direction: Towards the Southwest
24.3.6 Range of Measured Water Table Elevations: See Table 24.1
24.3.7 Significant Changes from Previously Reported Data: None

24.4 Free Product Plume

24.4.1 Free Product Present?: Yes
24.4.2 Free Product Thickness Measured: See Table 24.1
24.4.3 Plume Size and Location: See Figure 24.1A
24.4.4 Free Product Removed from Site This Period: Unknown
24.4.5 Significant Changes from Previously Reported Data: None

24.5 Dissolved-Phase Plume

24.5.1 Plume Concentrations: See Table 24.2

24.5.2 Plume Size and Location: See Figures 24.1A through 24.1D

24.5.3 Significant Changes from Previously Reported Data: Shaw completed a comprehensive groundwater sampling event in August 2007. Thirty-five (35) shallow (Type II) wells, twenty-two (22) wells with a depth of 50 feet, thirteen (13) wells with depths ranging from 70 to 90 feet, and six (6) wells that have depths of greater than 100 feet were sampled and analyzed per EPA Method 8260. A discussion of the Benzene analytical results for each depth interval is presented below:

EPA Method 8260 – Shallow Type II Wells

Laboratory analysis of the August 2007 groundwater samples revealed 16 shallow wells containing dissolved Benzene concentrations above the 2L GWQS. The dissolved Benzene concentrations, from both the most recent event and historical events, are summarized in Table 24.2. The shallow Benzene plumes from the August 2007 sampling event and the most recent comprehensive sampling event from 2003 are illustrated on Figure 24.1A.

A review of the historic laboratory results indicates a trend of declining Benzene concentrations in the shallow groundwater. Additionally, as can be seen on Figure 24.1A, the horizontal extent of the dissolved Benzene plume appears to have been reduced in comparison to the 2003 plume. The horizontal extent of the dissolved Benzene plume appears bounded within the existing monitoring well network with the exception of the most northern portion of the plume.

EPA Method 8260 – Wells 50 Feet Deep

Laboratory analysis of the August 2007 groundwater samples revealed 12 wells containing dissolved Benzene concentrations above the 2L GWQS. The dissolved Benzene concentrations, from both the most recent event and historical events, are summarized in Table 24.2. The August 2007 and 2003 Benzene plumes as they pertain to wells 50 feet deep are illustrated on Figure 24.1B.

As noted within the shallow groundwater, dissolved Benzene concentrations in monitoring wells 50 feet deep show a general declining trend. The highest concentrations were noted in monitoring wells UST1115-MW20 at 18,700 µg/L, USTHPFFC-MW08 at 7,730 µg/L, and USTHPFFC-MW60 at 8,170 µg/L. While two of these wells show increases in dissolved Benzene (UST1115-MW20 was 4,940 µg/L in 2006 and USTHPFFC-MW60 was 2,700 µg/L in 2002), an overall downward trend in the benzene concentrations was noted across the site.

The horizontal extent of the dissolved Benzene plume in the 50 feet deep monitoring wells has been reduced in comparison to the 2003 plume. Additionally, as can be seen on Figure 24.1B, the horizontal extent of the dissolved Benzene plume is bounded within the existing monitoring well network.

EPA Method 8260 – Wells 70-90 Feet Deep

Laboratory analysis of the August 2007 groundwater samples collected from monitoring wells 70-90 feet deep revealed four wells containing dissolved Benzene concentrations above the 2L GWQS. The dissolved Benzene concentrations, from both the most recent event and historical events, are summarized in Table 24.2. The August 2007 and the 2003 Benzene plumes as they pertain to wells 70 to 90 feet deep are illustrated on Figure 24.1C.

A review of the historical laboratory results indicates an overall declining trend in Benzene concentrations from groundwater samples obtained from monitoring wells 70-90 feet deep. A review of the laboratory results also show dramatic decreases in the dissolved Benzene concentrations in a number of wells. Monitoring wells UST1115-MW22 through UST1115-MW25 show the most improvement as compared to the 2006 laboratory data. The Benzene concentrations in the samples from UST1115-MW22 decreased from 3,880 ug/L to 600ug/L, UST1115-MW23 decreased from 1,920 ug/L to <5 ug/L, UST1115-MW24 decreased from 2,250 ug/L to 4.4 ug/L and UST1115-MW25 decreased from 5,160 ug/L to 0.83 ug/L. These decreases are most likely a result of the bio-pulse air sparging events.

The horizontal extent of dissolved benzene appears bounded within the existing monitoring well network and, as can be seen on Figure 24.1C, the horizontal extent appears to have been reduced in comparison to the plume in 2003.

EPA Method 8260 – Wells Greater than 100 Feet Deep

Laboratory analysis of the August 2007 groundwater samples collected from wells greater than 100 feet deep revealed two wells containing dissolved Benzene concentrations above the 2L GWQS. The dissolved Benzene concentrations, from both the most recent event and historical events, are summarized in Table 24.2. The August 2007 and the 2003 Benzene plumes as they pertain to wells greater than 100 feet deep are illustrated on Figure 24.1D.

Dissolved Benzene concentrations in samples collected from monitoring wells greater than 100 feet deep do not show a significant downward trend; however, the highest Benzene concentrations were only 47 µg/L and 74.6 µg/L. The horizontal extent of dissolved benzene in groundwater greater than 100 feet deep appears to have been somewhat reduced compared to the 2003 plume.

24.6 Potential Receptors

24.6.1 Contaminated Water Supply Well(s)?: None
24.6.2 Potable Water Supply Well Within 1,000 Feet of Source Area?: No
24.6.3 Any Water Supply Well Within 250 Feet of Source Area?: No
24.6.4 Surface Water Body Within 500 Feet?: No
24.6.5 Past Evidence of Vapors?: No
24.6.6 Significant Changes from Previously Reported Data?: None

24.7 Remediation

24.7.1 Status: Ongoing
24.7.2 Type: AS/SVE, Free Product Recovery, AFVR, Bio-Pulsing and Natural Attenuation
24.7.3 Progress: Free product thickness and extent and the shallow contamination concentrations have been significantly reduced since system startup. Deep contamination concentrations have decreased since the implementation of bio-pulsing.
24.7.4 Construction Contractor: Shaw
24.7.5 Operating Contractor: Shaw

24.8 Observations and Comments

As stated in the October 2007 Bio-Pulse Air Sparging Evaluation report , CATLIN recommended modifying the pulse duration of certain bio-pulse wells. In addition, it was recommended to continue to sparge the outer-most wells away from the center of the dissolved contaminant plume and work toward the plume core. Also, continue to collect vapor readings at a reduced frequency within Building 1101 and other buildings within the assumed influence of the sparging events. Finally, CATLIN recommends maintaining injection pressures at a constant at 95 psi. It is also recommended that the pressure be verified every 30 minutes and adjusted as necessary. This should produce more reliable flow versus time graphs for future evaluations.

CATLIN recommends conducting a sampling event of select monitoring wells (approximately 30) in the first quarter of 2008 per EPA Method 8260. A more comprehensive sampling event (approximately 75 wells) should be conducted in the third quarter of 2008 per EPA Method 8260. See the figure in Appendix A for the proposed first quarter 2008 sampling event.

When the analytical data from the next sampling event is available CATLIN recommends preparing a summary report with specific recommendations for the next pulse events at each of the twenty-five (25) sparging wells.

TABLE 24.1
SITE HPFF
FIELD MEASUREMENTS - JULY 2005 TO DECEMBER 2007

Well No.	Type	TOC	Date	DTW	Product Thickness	Corrected GWT Elevation
IR78-GW17-02	T-III	32.14	8/16/2007	14.76	0.00	17.38
IR78-GW19	T-II	29.07	10/2/2006	6.18	0.00	22.89
IR78-GW22-2	T-III		8/18/2005	8.06	0.00	
IR78-GW22-2	T-III		1/23/2006	8.00	0.00	
IR78-GW22-2	T-III		10/2/2006	7.93	0.00	
IR78-GW31-02	T-III	26.24	8/14/2007	10.82	0.00	15.42
IR78-GW32-02	T-III	26.77	8/18/2007	9.36	0.00	17.41
IR78-GW32-03	T-III	26.30	8/18/2007	10.58	0.00	15.72
UST1101-MW01	T-II	26.75	8/16/2007	8.04	0.00	18.71
UST1115GT-MW01	T-II	26.31	8/17/2005	9.12	0.00	17.19
UST1115GT-MW01	T-II	26.31	1/23/2006	3.92	0.00	22.39
UST1115GT-MW01	T-II	26.31	10/3/2006	4.18	0.00	22.13
UST1115GT-MW01	T-II	26.31	8/24/2007	4.37	0.00	21.94
UST1115GT-MW07	T-II	25.94	8/17/2005	5.10	0.00	20.84
UST1115GT-MW07	T-II	25.94	1/25/2006	8.96	0.00	16.98
UST1115GT-MW07	T-II	25.94	8/21/2007	5.98	0.00	19.96
UST1115GT-MW09	T-II	25.98	8/17/2005	5.33	0.00	20.65
UST1115GT-MW09	T-II	25.98	10/2/2006	5.98	0.00	20.00
UST1115GT-MW09	T-II	25.98	8/22/2007	6.22	0.00	19.76
UST1115-MW01	T-II	26.24	8/18/2005	8.15	0.00	18.09
UST1115-MW01	T-II	26.24	1/23/2006	7.18	0.00	19.06
UST1115-MW01	T-II	26.24	10/3/2006	8.60	0.00	17.64

Notes:
1. T-II = Type II monitoring well
   T-III = Type III monitoring well
   RW = Recovery well
2. TOC = Top of casing elevation in feet relative to Mean Sea Level.
3. DTW = Depth to water (in feet) from top of well casing.
4. Product thickness is measured in feet.
5. GWT = Groundwater Table
6. A zero ("0.00") in the product thickness column indicates no measureable thickness.
7. GWT Elevation corrected for measurable free product, if present.

Well No.	Type	TOC	Date	DTW	Product Thickness	Corrected GWT Elevation
UST1115-MW01	T-II	26.24	8/21/2007	9.20	0.00	17.04
UST1115-MW02	T-II	25.73	8/18/2005	8.51	0.00	17.22
UST1115-MW02	T-II	25.73	1/20/2006	7.42	0.00	18.31
UST1115-MW02	T-II	25.73	10/2/2006	8.23	0.00	17.50
UST1115-MW02	T-II	25.73	8/23/2007	9.01	0.00	16.72
UST1115-MW04	T-II	27.01	8/18/2005	3.48	0.00	23.53
UST1115-MW04	T-II	27.01	1/20/2006	4.80	0.00	22.21
UST1115-MW04	T-II	27.01	10/2/2006	5.37	0.00	21.64
UST1115-MW04	T-II	27.01	8/22/2007	5.62	0.00	21.39
UST1115-MW05	T-II	26.06	10/2/2006	6.43	0.00	19.63
UST1115-MW07	T-II	25.84	8/22/2007	7.08	0.00	18.76
UST1115-MW09	T-II	27.98	1/23/2006	5.38	0.00	22.60
UST1115-MW09	T-II	27.98	10/2/2006	5.43	0.00	22.55
UST1115-MW09	T-II	27.98	8/22/2007	11.34	0.00	16.64
UST1115-MW11	T-II	27.64	10/2/2006	8.55	0.00	19.09
UST1115-MW12	T-II	25.56	10/2/2006	4.98	0.00	20.58
UST1115-MW13	T-III	25.58	8/17/2005	6.54	0.00	19.04
UST1115-MW13	T-III	25.58	1/23/2006	8.53	0.00	17.05
UST1115-MW13	T-III	25.58	10/3/2006	8.85	0.00	16.73
UST1115-MW13	T-III	25.58	8/24/2007	10.00	0.00	15.58
UST1115-MW14	T-III	27.65	10/3/2006	11.00	0.00	16.65
UST1115-MW14	T-III	27.65	8/22/2007	10.87	0.00	16.78
UST1115-MW15	T-III	25.63	10/3/2006	8.17	0.00	17.46
UST1115-MW15	T-III	25.63	8/24/2007	9.85	0.00	15.78
UST1115-MW17	T-III	25.93	8/18/2005	10.00	0.00	15.93
UST1115-MW17	T-III	25.93	1/20/2006	9.10	0.00	16.83
UST1115-MW17	T-III	25.93	10/2/2006	9.92	0.00	16.01

Notes:
1. T-II = Type II monitoring well
   T-III = Type III monitoring well
   RW = Recovery well
2. TOC = Top of casing elevation in feet relative to Mean Sea Level.
3. DTW = Depth to water (in feet) from top of well casing.
4. Product thickness is measured in feet.
5. GWT = Groundwater Table
6. A zero ("0.00") in the product thickness column indicates no measureable thickness.
7. GWT Elevation corrected for measurable free product, if present.

Well No.	Type	TOC	Date	DTW	Product Thickness	Corrected GWT Elevation
UST1115-MW17	T-III	25.93	8/22/2007	10.96	0.00	14.97
UST1115-MW18	T-III	27.22	8/17/2005	9.90	0.00	17.32
UST1115-MW18	T-III	27.22	8/22/2007	11.21	0.00	16.01
UST1115-MW20	T-III	26.12	8/20/2007	9.36	0.00	16.76
UST1115-MW21	T-III	25.54	8/18/2005	9.10	0.00	16.44
UST1115-MW21	T-III	25.54	1/20/2006	8.25	0.00	17.29
UST1115-MW21	T-III	25.54	10/2/2006	9.05	0.00	16.49
UST1115-MW21	T-III	25.54	8/23/2007	9.83	0.00	15.71
UST1115-MW22	T-III	27.09	8/18/2005	11.79	0.00	15.30
UST1115-MW22	T-III	27.09	1/20/2006	10.84	0.00	16.25
UST1115-MW22	T-III	27.09	10/2/2006	11.83	0.00	15.26
UST1115-MW22	T-III	27.09	8/22/2007	12.49	0.00	14.60
UST1115-MW23	T-III	27.47	8/17/2005	10.88	0.00	16.59
UST1115-MW23	T-III	27.47	1/23/2006	10.24	0.00	17.23
UST1115-MW23	T-III	27.47	10/2/2006	11.83	0.00	15.64
UST1115-MW23	T-III	27.47	8/22/2007	7.72	0.00	19.75
UST1115-MW24	T-III	25.92	8/18/2005	10.05	0.00	15.87
UST1115-MW24	T-III	25.92	1/20/2006	9.60	0.00	16.32
UST1115-MW24	T-III	25.92	10/2/2006	10.21	0.00	15.71
UST1115-MW24	T-III	25.92	8/23/2007	11.22	0.00	14.70
UST1115-MW25	T-III	25.83	8/17/2005	9.73	0.00	16.10
UST1115-MW25	T-III	25.83	1/23/2006	9.05	0.00	16.78
UST1115-MW25	T-III	25.83	10/3/2006	9.70	0.00	16.13
UST1115-MW25	T-III	25.83	8/24/2007	10.52	0.00	15.31
USTHPFFC-MW01	T-II	27.96	8/20/2005	4.29	0.00	23.67
USTHPFFC-MW01	T-II	27.96	1/24/2006	4.80	0.00	23.16
USTHPFFC-MW01	T-II	27.96	10/4/2006	8.93	0.00	19.03
USTHPFFC-MW01	T-II	27.96	8/23/2007	5.35	0.00	22.61

Notes:
1. T-II = Type II monitoring well
   T-III = Type III monitoring well
   RW = Recovery well
2. TOC = Top of casing elevation in feet relative to Mean Sea Level.
3. DTW = Depth to water (in feet) from top of well casing.
4. Product thickness is measured in feet.
5. GWT = Groundwater Table
6. A zero ("0.00") in the product thickness column indicates no measureable thickness.
7. GWT Elevation corrected for measurable free product, if present.

Well No.	Type	TOC	Date	DTW	Product Thickness	Corrected GWT Elevation
USTHPFFC-MW02	T-II	29.04	8/20/2007	7.37	0.00	21.67
USTHPFFC-MW03	T-II	30.82	10/4/2006	10.06	0.00	20.76
USTHPFFC-MW03	T-II	30.82	8/14/2007	10.64	0.00	20.18
USTHPFFC-MW05	T-II	26.93	8/22/2005	6.73	0.00	20.20
USTHPFFC-MW05	T-II	26.93	1/24/2006	6.40	0.00	20.53
USTHPFFC-MW05	T-II	26.93	10/6/2006	7.13	0.00	19.80
USTHPFFC-MW05	T-II	26.93	8/16/2007	7.28	0.00	19.65
USTHPFFC-MW06	T-III	30.43	8/14/2007	11.92	0.00	18.51
USTHPFFC-MW07	T-III	27.87	8/20/2005	9.69	0.00	18.18
USTHPFFC-MW07	T-III	27.87	1/24/2006	8.80	0.00	19.07
USTHPFFC-MW07	T-III	27.87	10/4/2006	9.78	0.00	18.09
USTHPFFC-MW07	T-III	27.87	8/23/2007	10.76	0.00	17.11
USTHPFFC-MW08	T-III	34.51	1/24/2006	15.00	0.00	19.51
USTHPFFC-MW08	T-III	34.51	10/6/2006	15.78	0.00	18.73
USTHPFFC-MW08	T-III	34.51	8/15/2007	16.57	0.00	17.94
USTHPFFC-MW09	T-III	26.73	8/22/2005	8.62	0.00	18.11
USTHPFFC-MW09	T-III	26.73	1/24/2006	8.00	0.00	18.73
USTHPFFC-MW09	T-III	26.73	10/6/2006	8.48	0.00	18.25
USTHPFFC-MW09	T-III	26.73	8/16/2007	9.30	0.00	17.43
USTHPFFC-MW10	T-III	32.44	10/6/2006	14.43	0.00	18.01
USTHPFFC-MW10	T-III	32.44	8/16/2007	15.18	0.00	17.26
USTHPFFC-MW11	T-III	32.06	8/27/2005	14.04	0.00	18.02
USTHPFFC-MW11	T-III	32.06	1/24/2006	13.50	0.00	18.56
USTHPFFC-MW11	T-III	32.06	8/15/2007	14.90	0.00	17.16
USTHPFFC-MW12	T-III	26.67	10/6/2006	5.26	0.00	21.41
USTHPFFC-MW12	T-III	26.67	8/20/2007	10.93	0.00	15.74
USTHPFFC-MW13	T-III	26.12	8/24/2007	10.77	0.00	15.35

Notes:
1. T-II = Type II monitoring well
   T-III = Type III monitoring well
   RW = Recovery well
2. TOC = Top of casing elevation in feet relative to Mean Sea Level.
3. DTW = Depth to water (in feet) from top of well casing.
4. Product thickness is measured in feet.
5. GWT = Groundwater Table
6. A zero ("0.00") in the product thickness column indicates no measureable thickness.
7. GWT Elevation corrected for measurable free product, if present.

Well No.	Type	TOC	Date	DTW	Product Thickness	Corrected GWT Elevation
USTHPFFC-MW15	T-II	27.39	1/23/2006	5.80	0.35	21.88
USTHPFFC-MW15	T-II	27.39	10/3/2006	6.28	0.45	21.48
USTHPFFC-MW15	T-II	27.39	8/16/2007	7.16	0.00	20.23
USTHPFFC-MW19	T-II	26.21	1/24/2006	4.75	0.00	21.46
USTHPFFC-MW19	T-II	26.21	10/3/2006	5.31	0.00	20.90
USTHPFFC-MW19	T-II	26.21	8/20/2007	6.47	0.00	19.74
USTHPFFC-MW20	T-II	28.29	1/24/2006	6.50	0.00	21.79
USTHPFFC-MW20	T-II	28.29	10/4/2006	6.69	0.00	21.60
USTHPFFC-MW20	T-II	28.29	8/14/2007	8.39	0.00	19.90
USTHPFFC-MW23	T-II	26.07	1/23/2006	5.50	0.00	20.57
USTHPFFC-MW23	T-II	26.07	10/3/2006	5.90	0.00	20.17
USTHPFFC-MW24	T-II	30.91	10/4/2006	11.11	0.00	19.80
USTHPFFC-MW25	T-II	30.94	1/23/2006	10.70	0.00	20.24
USTHPFFC-MW25	T-II	30.94	10/3/2006	10.83	0.00	20.11
USTHPFFC-MW28	T-II	27.06	1/23/2006	4.80	0.00	22.26
USTHPFFC-MW28	T-II	27.06	10/4/2006	5.74	0.00	21.32
USTHPFFC-MW30	T-II	26.30	10/4/2006	4.83	0.00	21.47
USTHPFFC-MW31	T-II	27.98	8/15/2007	8.90	0.00	19.08
USTHPFFC-MW36	T-II	26.18	8/21/2007	8.14	0.00	18.04
USTHPFFC-MW38	T-II	28.94	8/15/2007	8.83	0.00	20.11
USTHPFFC-MW39	T-II	24.19	8/25/2007	10.42	0.00	13.77
USTHPFFC-MW42	T-II	27.24	10/4/2006	6.42	0.00	20.82
USTHPFFC-MW43	T-III	22.14	8/25/2007	8.80	0.00	13.34
USTHPFFC-MW44	T-III	22.17	8/25/2007	9.57	0.00	12.60
USTHPFFC-MW47	T-III	24.62	8/25/2007	10.40	0.00	14.22

Notes:
1. T-II = Type II monitoring well
   T-III = Type III monitoring well
   RW = Recovery well
2. TOC = Top of casing elevation in feet relative to Mean Sea Level.
3. DTW = Depth to water (in feet) from top of well casing.
4. Product thickness is measured in feet.
5. GWT = Groundwater Table
6. A zero ("0.00") in the product thickness column indicates no measureable thickness.
7. GWT Elevation corrected for measurable free product, if present.

Well No.	Type	TOC	Date	DTW	Product Thickness	Corrected GWT Elevation
USTHPFFC-MW48	T-II	22.98	8/24/2007	7.92	0.00	15.06
USTHPFFC-MW50	T-III	22.69	8/24/2007	8.45	0.00	14.24
USTHPFFC-MW51	T-II	27.32	8/25/2007	11.13	0.00	16.19
USTHPFFC-MW53	T-III	27.43	8/25/2007	10.83	0.00	16.60
USTHPFFC-MW54	T-II	27.13	8/25/2007	6.58	0.00	20.55
USTHPFFC-MW55	T-III	27.14	8/25/2007	9.35	0.00	17.79
USTHPFFC-MW56	T-III	25.66	8/24/2007	10.89	0.00	14.77
USTHPFFC-MW59	T-III	27.58	8/23/2007	10.82	0.00	16.76
USTHPFFC-MW60	T-III	26.88	8/20/2007	9.83	0.00	17.05
USTHPFFC-MW61	T-III	27.08	8/20/2007	10.70	0.00	16.38
USTHPFFC-MW63	T-III	27.25	8/15/2007	10.99	0.00	16.26
USTHPFFC-MW66	T-III	27.03	8/17/2007	9.42	0.00	17.61
USTHPFFC-MW70	T-III	30.39	8/16/2007	11.85	0.00	18.54
USTHPFFC-MW71	T-III	30.30	8/16/2007	13.17	0.00	17.13
USTHPFFC-MW72	T-I	27.44	1/23/2006	13.80	7.78	20.02
USTHPFFC-MW72	T-I	27.44	10/3/2006	7.60	0.07	19.90
USTHPFFC-MW72	T-I	27.44	8/17/2007	19.05	13.10	19.13
USTHPFFC-MW73	T-III	23.85	8/23/2007	11.70	0.00	12.15
USTHPFFC-MW74	T-III	23.95	8/23/2007	11.91	0.00	12.04
USTHPFFC-MW76	T-III	22.79	8/25/2007	8.31	0.00	14.48
USTHPFFC-MW77	T-III	28.98	8/15/2007	11.56	0.00	17.42
USTHPFF-MW01	T-II	29.87	1/23/2006	8.43	0.00	21.44
USTHPFF-MW01	T-II	29.87	10/6/2006	8.95	0.00	20.92
USTHPFF-MW01	T-II	29.87	8/15/2007	9.80	0.00	20.07

Notes:
1. T-II = Type II monitoring well
   T-III = Type III monitoring well
   RW = Recovery well
2. TOC = Top of casing elevation in feet relative to Mean Sea Level.
3. DTW = Depth to water (in feet) from top of well casing.
4. Product thickness is measured in feet.
5. GWT = Groundwater Table
6. A zero ("0.00") in the product thickness column indicates no measureable thickness.
7. GWT Elevation corrected for measurable free product, if present.

Well No.	Type	TOC	Date	DTW	Product Thickness	Corrected GWT Elevation
USTHPFF-MW02	T-II	31.48	1/23/2006	10.07	0.00	21.41
USTHPFF-MW02	T-II	31.48	10/3/2006	10.44	0.00	21.04
USTHPFF-MW06	T-II	29.60	10/6/2006	8.77	0.00	20.83
USTHPFF-MW06	T-II	29.60	8/21/2007	9.21	0.00	20.39
USTHPFF-MW09	T-II	30.47	8/16/2007	10.90	0.00	19.57
USTHPFF-MW10	T-II	33.45	8/27/2005	13.79	0.00	19.66
USTHPFF-MW10R	T-II	33.45	8/27/2005	12.47	0.00	20.98
USTHPFF-MW10R	T-II	33.45	1/23/2006	11.87	0.00	21.58
USTHPFF-MW10R	T-II	33.45	1/24/2006	11.87	0.00	21.58
USTHPFF-MW10R	T-II	33.45	10/4/2006	12.26	0.00	21.19
USTHPFF-MW10R	T-II	33.45	8/21/2007	12.92	0.00	20.53
USTHPFF-MW11	T-II	28.29	8/20/2005	6.81	0.00	21.48
USTHPFF-MW11	T-II	28.29	1/25/2006	5.30	0.00	22.99
USTHPFF-MW11	T-II	28.29	10/9/2006	7.16	0.00	21.13
USTHPFF-MW11	T-II	28.29	8/16/2007	6.60	0.00	21.69
USTHPFF-MW12	T-II	28.66	1/23/2006	5.94	0.00	22.72
USTHPFF-MW12	T-II	28.66	10/3/2006	5.61	0.00	23.05
USTHPFF-MW12	T-II	28.66	8/20/2007	6.62	0.00	22.04
USTHPFF-MW15	T-II	29.79	1/23/2006	7.69	0.00	22.10
USTHPFF-MW15	T-II	29.79	10/3/2006	7.81	0.00	21.98
USTHPFF-MW15	T-II	29.79	8/17/2007	9.20	0.00	20.59
USTHPFF-MW17	T-II	31.59	8/16/2007	11.71	0.00	19.88
USTHPFF-MW18	T-II	31.45	1/23/2006	10.68	0.00	20.77
USTHPFF-MW18	T-II	31.45	10/6/2006	10.92	0.00	20.53
USTHPFF-MW18	T-II	31.45	8/15/2007	12.25	0.00	19.20
USTHPFF-MW19	T-II	32.39	10/6/2006	11.97	0.00	20.42
USTHPFF-MW19	T-II	32.39	8/14/2007	12.60	0.00	19.79

Notes:
1. T-II = Type II monitoring well
   T-III = Type III monitoring well
   RW = Recovery well
2. TOC = Top of casing elevation in feet relative to Mean Sea Level.
3. DTW = Depth to water (in feet) from top of well casing.
4. Product thickness is measured in feet.
5. GWT = Groundwater Table
6. A zero ("0.00") in the product thickness column indicates no measureable thickness.
7. GWT Elevation corrected for measurable free product, if present.

TABLE 24.2
SITE HPFF HISTORICAL ANALYTICAL RESULTS - GROUNDWATER (EPA METHOD 602/8260B) BENZENE ONLY

Well ID	Screen Interval (feet BLS)	Date Sampled	Benzene Concentration (µg/L)
2L GWQS (µg/L)			**1**
UST1101-MW01	3-13	11/14/2000	BQL
		7/17/2002	<1
		8/16/2007 +	<1
UST1101-MW02	3-13	11/13/2000	BQL
UST1101-MW03	3-13	11/13/2000	BQL
		7/18/2002	<1
UST1115-MW01	5-15	6/5/1997	**1.3**
		1/7/1999 +	**310 B**
		2/16/2000	BQL
		5/30/2000 +	<1.0
		11/13/2000	BQL
		1/24/2001 +	**32**
		7/29/2001 +	**14**
		2/2/2002 +	**6**
		8/5/2002 +	<1
		2/17/2003 +	**187**
		8/20/2003 +	<1
		2/21/2004 +	<1
		8/19/2004 +	**17.7**
		3/24/2005 +	**3.8**
		8/18/2005 +	<1
		1/23/2006 +	<1
		10/3/2006 +	**163**
		8/21/2007 +	<1
UST1115-MW02	4-15	6/5/1997	0.9
		1/6/1999 +	**29**
		8/12/1999 +	**53**
		2/15/2000	BQL
		5/26/2000 +	<1
		11/13/2000	BQL
		1/24/2001 +	**150**
		7/29/2001 +	**51**
		2/2/2002 +	**11.9**
		8/6/2002 +	**9.3**
		2/19/2003 +	**125**
		8/19/2003 +	**3.1**
		2/25/2004 +	**10.9**
		8/19/2004 +	**24.3**
		3/22/2005 +	**31.1**
		8/18/2005 +	<1
		1/20/2006 +	**14.9**
		10/2/2006 +	**28.3**
		8/23/2007 +	<1
		8/23/2007 + dup	<1
UST1115-MW03	5-20	6/5/1997	BQL
		2/15/2000	BQL
		11/13/2000	**11**

TABLE 24.2
SITE HPFF HISTORICAL ANALYTICAL RESULTS - GROUNDWATER (EPA METHOD 602/8260B) BENZENE ONLY

Well ID	Screen Interval (feet BLS)	Date Sampled	Benzene Concentration (µg/L)
2L GWQS (µg/L)			1
UST1115-MW04	5-15	6/4/1997	BQL
		1/7/1999 +	**190 B**
		8/12/1999 +	**28**
		2/15/2000	BQL
		5/26/2000 +	<1
		11/13/2000	BQL
		1/23/2001 +	**660**
		7/27/2001 +	**210**
		2/2/2002 +	**22.6**
		8/7/2002 +	**31.5**
		2/19/2003 +	**128**
		8/19/2003 +	<1
		2/25/2004 +	**16.8**
		8/19/2004 +	**31.5**
		3/10/2005 +	**42.7**
		8/18/2005 +	0.63 J
		1/20/2006 +	**9.0**
		10/2/2006 +	**56.6**
		8/22/2007 +	<1
UST1115-MW05	5-15	2/23/2000	**1,500**
		11/20/2000	**1,900**
		11/20/2000 dup	**1,800**
UST1115-MW06	5-20	6/4/1997	BQL
		2/22/2000	**5**
		11/13/2000	**81**
		11/13/2000 dup	**67**
UST1115-MW07	5-20	11/15/2000	**3,000**
		7/17/2002	**6,000**
		8/22/2007 +	**6,230**
UST1115-MW08	5-20	6/4/1997	BQL
		2/15/2000	BQL
		11/13/2000	BQL
		11/13/2000	BQL
UST1115-MW09	5-20	6/4/1997	BQL
		2/15/2000	**710**
		11/14/2000	**800**
		7/18/2002	**140**
		7/18/2002 dup	**150**
		8/22/2007 +	**120**
UST1115-MW10	4-14	6/4/1997	**3.1**
		2/17/2000	**11**
		11/15/2000	**200**
UST1115-MW11	5-20	6/4/1997	BQL
		2/15/2000	**150**
		11/15/2000	**140**
UST1115-MW12	5-15	2/23/2000	**4,200**
		11/15/2000	**2,000**
		11/15/2000 dup	**4,300**

TABLE 24.2
SITE HPFF HISTORICAL ANALYTICAL RESULTS - GROUNDWATER (EPA METHOD 602/8260B) BENZENE ONLY

Well ID	Screen Interval (feet BLS)	Date Sampled	Benzene Concentration (µg/L)
2L GWQS (µg/L)			1
UST1115-MW13	46-51	6/4/1997	**10,800**
		1/7/1999 +	**15,000 B**
		8/12/1999 +	**230**
		2/17/2000	**14,000**
		5/26/2000 +	**13,000**
		11/20/2000	**10,000**
		1/24/2001 +	**6,400**
		7/29/2001 +	**2,300**
		2/2/2002 +	**298**
		8/12/2002 +	**95.5**
		2/19/2003 +	**872**
		8/20/2003 +	**340**
		2/24/2004 +	**228**
		8/25/2004 +	**202**
		3/22/2005 +	**82.1**
		8/17/2005 +	**61.6**
		1/23/2006 +	**263**
		10/3/2006 +	**278**
		8/24/2007 +	**78.5**
UST1115-MW14	46-51	6/4/1997	**11,760**
		2/15/2000	**120**
		11/20/2000	**300**
		11/20/2000 dup	**310**
		7/18/2002	**6,600**
		7/18/2002	**6,700**
		8/22/2007 +	**170**
UST1115-MW15	46-51	6/4/1997	**16,500**
		2/23/2000	**10,000**
		11/20/2000	**6,100**
		7/18/2002	**2,300**
		8/24/2007 +	<1
UST1115-MW17	45-50	6/4/1997	**7,900**
		1/7/1999 +	**9,200**
		8/12/1999 +	**9,200**
		2/15/2000	**7,800**
		5/26/2000 +	**8,900**
		11/13/2000	**9,400**
		2/23/2000	**3,900**
		1/23/2001 +	**7,900**
		7/27/2001 +	**7,400**
		2/2/2002 +	**8,670**
		8/7/2002 +	**7,770**
		2/19/2003 +	**3,490**
		8/19/2003 +	**84.3**
		2/25/2004 +	**36.9**
		8/19/2004 +	**34.1**
		3/10/2005 +	**72.3**
		8/18/2005 +	**9.5**
		1/20/2006 +	**39.3**
		10/2/2006 +	**168**
		8/22/2007 +	**304**

TABLE 24.2
SITE HPFF HISTORICAL ANALYTICAL RESULTS - GROUNDWATER (EPA METHOD 602/8260B) BENZENE ONLY

Well ID	Screen Interval (feet BLS)	Date Sampled	Benzene Concentration (µg/L)
2L GWQS (µg/L)			1
UST1115-MW18	45-50	6/5/1997	**4,820**
		1/6/1999 +	**16,000**
		8/12/1999 +	**990**
		2/22/2000	**280**
		5/26/2000 +	**1,200**
		11/13/2000	**280**
		1/22/2001 +	**420**
		7/29/2001 +	**3.1**
		2/2/2002 +	**30.2**
		8/7/2002 +	**33.8**
		8/20/2003 +	**215**
		3/2/2004 +	**2,630**
		3/22/2005 +	**9.6 J**
		1/25/2006 +	<1
		8/22/2007 +	**5.5**
UST1115-MW19	45-50	6/5/1997	**13,900**
		2/22/2000	**15,000**
		11/16/2000	**2,200**
		7/17/2002	**2,400**
UST1115-MW20	45-50	6/5/1997	**15,000**
		2/23/2000	**19,000**
		11/16/2000	**23,000**
		7/18/2002	**15,000**
		8/20/2007 +	**18,700**
UST1115-MW21	45-50	6/5/1997	**890**
		1/6/1999 +	**2,000**
		8/12/1999 +	**1,600**
		2/15/2000	**1,300**
		5/26/2000 +	**2,200**
		11/13/2000	**1,600**
		1/24/2001 +	**1,200**
		7/29/2001 +	**960**
		2/2/2002 +	**1,920**
		8/6/2002 +	**620**
		2/19/2003 +	**727**
		8/19/2003 +	**485**
		2/25/2004 +	**607**
		8/19/2004 +	**521**
		3/10/2005 +	**338**
		8/18/2005 +	**282**
		1/20/2006 +	**175**
		10/2/2006 +	**197**
		8/23/2007 +	**45.2**

TABLE 24.2
SITE HPFF HISTORICAL ANALYTICAL RESULTS - GROUNDWATER (EPA METHOD 602/8260B) BENZENE ONLY

Well ID	Screen Interval (feet BLS)	Date Sampled	Benzene Concentration (µg/L)
2L GWQS (µg/L)			1
UST1115-MW22	75-80	6/4/1997	**1,640**
		1/7/1999 +	**460**
		8/12/1999 +	**1,100**
		2/15/2000	**890**
		5/26/2000 +	**900**
		11/13/2000	**1,100**
		1/23/2001 +	**940**
		7/27/2001 +	**700**
		2/2/2002 +	**1,250**
		8/7/2002 +	<1
		9/4/2002 +	**251**
		2/19/2003 +	**1,320**
		8/19/2003 +	**1,930**
		2/25/2004 +	**2,230**
		8/19/2004 +	**3,270**
		3/10/2005 +	**2,850**
		8/18/2005 +	**3,380**
		1/20/2006 +	**1,830**
		10/2/2006 +	**3,880**
		8/22/2007 +	**600**
UST1115-MW23	75-80	6/5/1997	**9,700**
		1/6/1999 +	**15,000**
		8/12/1999 +	**5,000**
		2/22/2000	**480**
		5/26/2000 +	**270**
		11/13/2000	**6**
		1/22/2001 +	**4.7 J**
		7/29/2001 +	**13**
		2/2/2002 +	**22**
		8/5/2002 +	**17.8**
		2/18/2003 +	0.98 J
		8/20/2003 +	**260**
		2/21/2004 +	**703**
		8/19/2004 +	**2,720**
		3/24/2005 +	**3,120**
		8/19/2005 +	**5,240**
		1/23/2006 +	**7,230**
		10/2/2006 +	**1,910**
		8/22/2007 +	<5*

TABLE 24.2
SITE HPFF HISTORICAL ANALYTICAL RESULTS - GROUNDWATER (EPA METHOD 602/8260B) BENZENE ONLY

Well ID	Screen Interval (feet BLS)	Date Sampled	Benzene Concentration (µg/L)
2L GWQS (µg/L)			1
UST1115-MW24	75-80	6/5/1997	**708**
		1/6/1999 +	**1,800**
		8/12/1999 +	**2,400**
		2/15/2000	**2,700**
		2/15/2000 dup	**2,800**
		5/26/2000 +	**3,200**
		11/13/2000	**3,100**
		1/24/2001 +	**2,700**
		7/29/2001 +	**2,900**
		2/2/2002 +	**2,480**
		8/6/2002 +	**3,060**
		2/19/2003 +	**4,120**
		8/19/2003 +	**3,990**
		2/25/2004 +	**4,100**
		8/19/2004 +	**3,630**
		3/10/2005 +	**1,030**
		8/18/2005 +	**3,120**
		1/20/2006 +	**1,750**
		10/2/2006 +	**2,250**
		8/23/2007 +	**4.4**
UST1115-MW25	75-80	6/4/1997	**86**
		1/7/1999 +	**63 B**
		8/12/1999 +	**240**
		2/22/2000	**340**
		5/26/2000 +	**650**
		11/20/2000	**770**
		1/24/2001 +	**1,100**
		7/29/2001 +	**29**
		2/2/2002 +	**3.1**
		8/12/2002 +	**1,850**
		9/4/2002 +	**1,660**
		2/19/2003 +	**2,840**
		8/22/2003 +	**3,300**
		2/24/2004 +	**3,580**
		8/25/2004 +	**5,960**
		3/22/2005 +	**5,170**
		8/17/2005 +	**4,990**
		1/23/2006 +	**5,000**
		10/3/2006 +	**5,160**
		8/24/2007 +	0.83 J
IR78-GW12	5-25	6/5/1997	BQL
		2/16/2000	BQL
		11/13/2000	BQL
IR78-GW13	5-25	6/5/1997	BQL
		2/16/2000	BQL
		11/16/2000	BQL
IR78-GW14	5-25	6/5/1997	BQL
		2/16/2000	BQL
		11/13/2000	BQL
IR78-GW15	5-15	6/5/1997	BQL
		2/16/2000	BQL
		11/13/2000	BQL

TABLE 24.2
SITE HPFF HISTORICAL ANALYTICAL RESULTS - GROUNDWATER (EPA METHOD 602/8260B) BENZENE ONLY

Well ID	Screen Interval (feet BLS)	Date Sampled	Benzene Concentration (µg/L)
2L GWQS (µg/L)			1
IR78-GW16	5-25	6/5/1997	BQL
		2/15/2000	BQL
		11/13/2000	BQL
IR78-GW17-01	5-25	6/5/1997	BQL
		2/15/2000	BQL
		11/16/2000	BQL
IR78-GW17-02	53-73	2/22/2000	**3**
		11/15/2000	1
		11/15/2000 dup	1
		7/18/2002	**2**
		8/16/2007 +	**9.8**
IR78-GW19	5-25	6/4/1997	BQL
		2/15/2000	BQL
		11/13/2000	**25**
IR78-GW21	5-25	6/5/1997	BQL
		2/23/2000	BQL
		11/15/2000	BQL
IR78-GW22-02	7-17	6/5/1997	BQL
		1/6/1999 +	**320**
		8/12/1999 +	**69**
		2/23/2000	**17**
		5/26/2000 +	**28**
		11/13/2000	**28**
		1/22/2001 +	**50**
		7/27/2001 +	**3.2**
		2/2/2002 +	**22.8**
		8/5/2002 +	**28.3**
		2/17/2003 +	**41.1**
		8/20/2003 +	**17.2**
		2/21/2004 +	**6.6**
		8/19/2004 +	**6.4**
		3/24/2005 +	**78.5**
		8/18/2005 +	**4.7**
		1/23/2006 +	**95.4**
		10/2/2006 +	**98.3**
IR78-GW31-02	65-75	6/4/1997	BQL
		2/17/2000	BQL
		11/16/2000	BQL
		11/16/2000 dup	BQL
		8/28/2002	<1
		8/14/2007 +	<1
IR78-GW31-03	140-150	6/4/1997	BQL
		2/17/2000	BQL
		11/16/2000	BQL
		8/28/2002	<1

TABLE 24.2
SITE HPFF HISTORICAL ANALYTICAL RESULTS - GROUNDWATER (EPA METHOD 602/8260B) BENZENE ONLY

Well ID	Screen Interval (feet BLS)	Date Sampled	Benzene Concentration (µg/L)
2L GWQS (µg/L)			1
IR78-GW32-02	64-74	6/4/1997	**64.2**
		1/28/1999 +	**170**
		10/15/1999 +	<1
		2/18/2000	**6**
		7/20/2000 +	**8.9**
		11/14/2000	**23**
		1/13/2001 +	**39**
		7/22/2001 +	**1.9**
		2/9/2002 +	**228**
		8/14/2002 +	**13.1**
		2/21/2003 +	**109**
		8/25/2003 +	**176**
		2/23/2004 +	**325**
		9/13/2004 +	**321**
		4/6/2005 +	**604**
		8/18/2007 +	**915**
IR78-GW32-03	140-150	6/4/1997	**5.1**
		1/28/1999 +	**84**
		10/15/1999 +	<1
		7/19/2000 +	**25**
		1/13/2001 +	**7.3**
		7/22/2001 +	**98**
		2/9/2002 +	**2.7**
		8/14/2002 +	**124**
		2/21/2003 +	**7.1**
		8/26/2003 +	0.64 J
		2/23/2004 +	**20.9**
		9/9/2004 +	**28.9**
		4/6/2005 +	**8.2**
		8/18/2007 +	**74.6**
UST1115GT-MW01	5-20	6/5/1997	BQL
		1/7/1999 +	**310 B**
		8/12/1999 +	**8,300**
		2/15/2000	**14**
		5/26/2000 +	**13**
		11/14/2000	**120**
		1/24/2001 +	**25**
		7/29/2001 +	**12**
		2/2/2002 +	**4**
		8/5/2002 +	0.88 J
		2/18/2003 +	**80**
		8/22/2003 +	<1
		2/21/2004 +	**29.7**
		8/25/2004 +	**44.7**
		3/24/2005 +	**35.8**
		8/17/2005 +	**268**
		1/23/2006 +	**1,100**
		10/3/2006 +	**2,720**
		8/24/2007 +	<1

TABLE 24.2
SITE HPFF HISTORICAL ANALYTICAL RESULTS - GROUNDWATER (EPA METHOD 602/8260B) BENZENE ONLY

Well ID	Screen Interval (feet BLS)	Date Sampled	Benzene Concentration (µg/L)
2L GWQS (µg/L)			1
UST1115GT-MW02	5-20	2/17/2000	**43,000**
		11/14/2000	**21,000**
UST1115GT-MW03	5-20	6/4/1997	**109**
		2/17/2000	**920**
		11/14/2000	**1,800**
UST1115GT-MW04	5-20	6/4/1997	**22**
		2/17/2000	**140**
		11/15/2000	**120**
UST1115GT-MW05	5-20	6/4/1997	**4.2**
		2/17/2000	**20**
		11/14/2000	**7**
UST1115GT-MW06	5-20	2/17/2000	**8,400**
		11/14/2000	**4,000**
UST1115GT-MW07	4-19	6/4/1997	BQL
		2/16/2000	**540**
		11/15/2000	**1,000**
		8/12/2002 +	**2.9**
		2/17/2003 +	**205**
		8/20/2003 +	**235**
		2/21/2004 +	0.74 J
		8/19/2004 +	**37.9**
		3/24/2005 +	**11**
		8/17/2005 +	**22.7**
		1/25/2006 +	**421**
		10/9/2006 +	**220**
		8/21/2007 +	0.65 J
UST1115GT-MW08	4-19	6/4/1997	BQL
		2/16/2000	1
		11/13/2000	**4**
		7/18/2002	<1
UST1115GT-MW09	5-20	6/4/1997	BQL
		2/16/2000	**96**
		11/13/2000	**3**
		8/7/2002 +	0.92 J
		2/21/2003 +	**21.1**
		8/20/2003 +	<1
		2/24/2004 +	<1
		8/27/2004 +	**3.2**
		3/22/2005 +	<1
		8/17/2005 +	<1
		1/23/2006 +	**154**
		10/2/2006 +	**9.7**
		8/22/2007 +	**21.4**

TABLE 24.2
SITE HPFF HISTORICAL ANALYTICAL RESULTS - GROUNDWATER (EPA METHOD 602/8260B) BENZENE ONLY

Well ID	Screen Interval (feet BLS)	Date Sampled	Benzene Concentration (µg/L)
2L GWQS (µg/L)			1
USTHPFFC-MW01	5-15	12/1/1995	BDL
		6/4/1997	BQL
		1/27/1999 +	<1
		10/18/1999 +	**5.4**
		2/16/2000	BQL
		7/20/2000 +	**2.2**
		11/15/2000	BQL
		2/1/2001 +	**42**
		7/17/2002	<1
		8/13/2002 +	<1
		2/21/2003 +	**32.3**
		8/22/2003 +	<1
		2/13/2004 +	<1
		8/27/2004 +	**3.8**
		4/5/2005 +	<1
		8/20/2005 +	<1
		1/24/2006 +	<1
		10/4/2006 +	**26.3**
		8/23/2007 +	<1
		8/23/2007 dup +	<1
USTHPFFC-MW02	5-15	12/1/1995	BDL
		6/4/1997	BQL
		2/15/2000	BQL
		11/16/2000	BQL
		7/18/2002	<1
		8/20/2007 +	<1
		8/20/2007 dup +	<1
USTHPFFC-MW03	6-16	12/1/1995	0.5
		6/5/1997	BQL
		2/17/2000	BQL
		11/15/2000	BQL
		7/18/2002	<1
		8/14/2007 +	<1
USTHPFFC-MW04	5-15	11/30/1995	BDL
		6/5/1997	BQL
		2/16/2000	BQL
		11/13/2000	BQL
USTHPFFC-MW05	5-15	12/1/1995	**6.6**
		6/5/1997	**1.3**
		2/17/2000	**2**
		11/14/2000	**140**
		7/17/2002	**3**
		8/14/2002 +	0.7 J
		2/21/2003 +	**674**
		8/25/2003 +	**44.2**
		2/13/2004 +	**8.4**
		8/27/2004 +	**4.1**
		4/5/2005 +	<1
		8/22/2005 +	<1
		1/24/2006 +	<1
		10/6/2006 +	**156**
		8/16/2007 +	<1

TABLE 24.2
SITE HPFF HISTORICAL ANALYTICAL RESULTS - GROUNDWATER (EPA METHOD 602/8260B) BENZENE ONLY

Well ID	Screen Interval (feet BLS)	Date Sampled	Benzene Concentration (µg/L)
2L GWQS (µg/L)			1
USTHPFFC-MW06	45-50	11/30/1995	0.7
		6/5/1997	**5.6**
		2/18/2000	BQL
		11/20/2000	BQL
		7/18/2002	<1
		8/14/2007 +	0.76 J
USTHPFFC-MW07	45-50	12/1/1995	**320**
		6/5/1997	**41.5**
		1/27/1999 +	**79**
		10/18/1999 +	**63**
		2/22/2000	**13**
		7/20/2000 +	**23**
		11/15/2000	**6**
		2/1/2001 +	**13**
		7/22/2001 +	**4.2**
		2/9/2002 +	**24.9**
		8/12/2002 +	**1.6**
		2/21/2003 +	**9.5**
		8/22/2003 +	0.79 J
		2/13/2004 +	<1
		8/27/2004 +	**1.5**
		4/5/2005 +	<1
		8/20/2005 +	<1
		1/24/2006 +	<1
		10/4/2006 +	**4.7**
		8/23/2007 +	**2**
USTHPFFC-MW08	45-50	11/30/1995	**812.5**
		6/5/1997	**2,500**
		1/28/1999 +	**1,300**
		10/18/1999 +	**8,000**
		2/22/2000	**11,000**
		7/24/2000 +	**7,100**
		11/15/2000	**8,500**
		1/13/2001 +	**7,700**
		7/22/2001 +	**10,000**
		2/9/2002 +	**12,300**
		8/13/2002 +	**14,600**
		2/21/2003 +	**10,900**
		8/25/2003 +	**7,420**
		2/20/2004 +	**10,200**
		8/31/2004 +	**11,500**
		4/13/2005 +	**10,600**
		8/31/2005 +	**7,710**
		1/24/2006 +	**7,480**
		10/6/2006 +	**4,940**
		8/15/2007 +	**7,730**

TABLE 24.2
SITE HPFF HISTORICAL ANALYTICAL RESULTS - GROUNDWATER (EPA METHOD 602/8260B) BENZENE ONLY

Well ID	Screen Interval (feet BLS)	Date Sampled	Benzene Concentration (µg/L)
2L GWQS (µg/L)			1
USTHPFFC-MW09	45-50	12/1/1995	**8,170**
		6/5/1997	**10,500**
		2/18/2000	**18,000**
		11/14/2000	**17,000**
		11/14/2000 dup	**17,000**
		7/17/2002	**8,100**
		8/14/2002 +	**10,800**
		2/21/2003 +	**22,600**
		8/22/2003 +	**4,090**
		2/13/2004 +	**727**
		8/27/2004 +	0.88 J
		4/5/2005 +	0.76 J
		8/22/2005 +	<5
		1/24/2006 +	<1
		10/6/2006 +	**323**
		8/16/2007 +	<1
USTHPFFC-MW10	75-80	8/21/1997	**168.0**
		2/18/2000	**1,400**
		11/20/2000	**2,000**
		11/20/2000 dup	**2,000**
		7/17/2002	**580**
		8/16/2007 +	0.73 J
USTHPFFC-MW11	105-110	8/21/1997	**25.9**
		2/18/2000	**130**
		11/16/2000	**59.0**
		7/17/2002	**370**
		8/13/2002 +	**809**
		2/21/2003 +	**489**
		8/25/2003 +	**348**
		2/20/2004 +	**114**
		8/31/2004 +	**89.6**
		4/13/2005 +	<1
		8/20/2005 +	**44.7**
		1/24/2006 +	**96.7**
		12/1/2006 +	**41.2**
		8/15/2007 +	<1
USTHPFFC-MW12	105-110	8/21/1997	**51.8**
		2/23/2000	**1,500**
		11/15/2000	**1,600**
		11/15/2000 dup	**1,700**
		7/17/2002	**3,000**
		8/20/2007 +	**47**
USTHPFFC-MW13	105-110	8/21/1997	**14.7**
		2/22/2000	**150**
		11/13/2000	**180**
		7/18/2002	**160**
		7/18/2002 dup	**160**
		8/24/2007 +	<1
USTHPFFC-MW14	5-15	2/17/2000	**1,400**
		11/15/2000	**1,400**
USTHPFFC-MW15	5-15	8/20/1997	**23,900**
		8/16/2007 +	**21,300**

TABLE 24.2
SITE HPFF HISTORICAL ANALYTICAL RESULTS - GROUNDWATER (EPA METHOD 602/8260B) BENZENE ONLY

Well ID	Screen Interval (feet BLS)	Date Sampled	Benzene Concentration (µg/L)
2L GWQS (µg/L)			1
USTHPFFC-MW16	5-15	8/20/1997	BQL
		2/16/2000	**19**
		11/15/2000	**580**
USTHPFFC-MW17	5-15	8/20/1997	BQL
		2/16/2000	**880**
		11/16/2000	**540**
USTHPFFC-MW18	5-15	8/20/1997	BQL
		2/16/2000	WELL DAMAGED
USTHPFFC-MW19	5-15	8/20/1997	**17,900**
		1/28/1999 +	**28,000**
		10/15/1999 +	**12,000**
		2/23/2000	**19,000**
		7/26/2000 +	**17,000**
		11/14/2000	**20,000**
		1/13/2001 +	**19,000**
		7/22/2001 +	**13,000**
		2/9/2002 +	**15,000**
		8/13/2002 +	**16,800**
		2/18/2003 +	**16,300**
		8/27/2003 +	**7,760**
		2/14/2004 +	**11,300**
		9/8/2004 +	**10,900**
		4/18/2005 +	**3,720**
		1/24/2006 +	**12,100**
		10/6/2006 +	**1,110**
		8/20/2007 +	**13,700**
		8/20/2007 dup +	**14,100**
USTHPFFC-MW20	5-15	8/20/1997	**4,850**
		1/27/1999 +	**2,600**
		10/15/1999 +	**3,400**
		2/18/2000	**13,000**
		2/18/2000 dup	**4,700**
		7/20/2000 +	**4,400**
		11/15/2000	**5,800**
		2/1/2001 +	**4,700**
		7/22/2001 +	**2,800**
		2/9/2002 +	**3,070**
		8/14/2002 +	**1,250**
		2/18/2003 +	**3,280**
		8/27/2003 +	**6,020**
		2/20/2004 +	**6,430**
		9/8/2004 +	**3,030**
		4/18/2005 +	**13,200**
		8/31/2005 +	**1,030**
		1/24/2006 +	**4,050**
		10/4/2006 +	**453**
		8/14/2007 +	**374**

TABLE 24.2
SITE HPFF HISTORICAL ANALYTICAL RESULTS - GROUNDWATER (EPA METHOD 602/8260B) BENZENE ONLY

Well ID	Screen Interval (feet BLS)	Date Sampled	Benzene Concentration (µg/L)
2L GWQS (µg/L)			1
USTHPFFC-MW21	5-15	1/28/2000	BQL
		11/16/2000	**6**
USTHPFFC-MW22	4-14	1/28/2000	**11,000**
		11/15/2000	**11,000**
USTHPFFC-MW23	3-13	1/28/2000	**9,200**
		11/16/2000	**5,200**
USTHPFFC-MW24	5-15	1/31/2000	**3,600**
		11/16/2000	**1,700**
USTHPFFC-MW25	5-15	1/28/2000	**16,000**
		11/16/2000	**13,000**
USTHPFFC-MW26	5-15	1/31/2000	**5**
		11/16/2000	BQL
USTHPFFC-MW27	4-14	2/2/2000	**11**
		11/14/2000	**45**
USTHPFFC-MW28	4-14	1/28/2000	**29,000**
USTHPFFC-MW29	4-14	1/28/2000	**24,000**
		11/16/2000	**23,000**
USTHPFFC-MW30	2-12	1/28/2000	**510**
		11/15/2000	**150**
USTHPFFC-MW31	4-14	1/31/2000	BQL
		11/13/2000	BQL
		7/18/2002	<1
		8/15/2007 +	<1
USTHPFFC-MW32	4-14	1/31/2000	BQL
		11/13/2000	BQL
USTHPFFC-MW33	4-14	1/31/2000	BQL
		11/13/2000	BQL
USTHPFFC-MW34	4-14	1/31/2000	**5**
		11/13/2000	BQL
USTHPFFC-MW35	4-14	2/1/2000	BQL
		11/13/2000	BQL
USTHPFFC-MW36	4-14	2/1/2000	BQL
		11/13/2000	BQL
		8/21/2007 +	<1
USTHPFFC-MW37	4-14	2/1/2000	**1**
		11/13/2000	BQL
USTHPFFC-MW38	4-14	2/1/2000	BQL
		11/15/2000	BQL
		7/17/2002	<1
		8/15/2007 +	<1
USTHPFFC-MW39	5-15	3/7/2000	BQL
		11/13/2000	BQL
		7/18/2002	<1
		8/25/2007 +	**5.7**
USTHPFFC-MW40	5-15	3/7/2000	BQL
		11/15/2000	BQL
USTHPFFC-MW41	5-15	3/7/2000	BQL
		11/16/2000	**86**
USTHPFFC-MW42	5-15	3/7/2000	BQL
		11/15/2000	BQL

TABLE 24.2
SITE HPFF HISTORICAL ANALYTICAL RESULTS - GROUNDWATER (EPA METHOD 602/8260B) BENZENE ONLY

Well ID	Screen Interval (feet BLS)	Date Sampled	Benzene Concentration (µg/L)
2L GWQS (µg/L)			1
USTHPFFC-MW43	75-80	3/26/2002	<1
		8/25/2007 +	<1
USTHPFFC-MW44	45-50	3/26/2002	<1
		8/25/2007 +	<1
USTHPFFC-MW45	75-80	3/26/2002	**710**
USTHPFFC-MW46	145-150	3/26/2002	<1
USTHPFFC-MW47	45-50	3/26/2002	**1,300**
		8/25/2007 +	**993**
USTHPFFC-MW48	5-15	3/26/2002	<1
		8/24/2007 +	<1
		8/24/2007 + dup	<1
USTHPFFC-MW49	75-80	3/26/2002	<1
USTHPFFC-MW50	45-50	3/26/2002	**28**
		8/24/2007 +	<1
USTHPFFC-MW51	5-15	3/25/2002	<1
		8/25/2007 +	**2.1**
		8/25/2007 + dup	<1
USTHPFFC-MW52	145-150	3/26/2002	<1
USTHPFFC-MW53	45-50	3/26/2002	**1**
		8/25/2007 +	<1
USTHPFFC-MW54	2-17	3/26/2002	<1
		8/25/2007 +	<1
USTHPFFC-MW55	75-80	3/26/2002	<1
		8/25/2007 +	<1
USTHPFFC-MW56	145-150	3/26/2002	<1
		8/24/2007 +	<1
USTHPFFC-MW57	45-50	3/26/2002	**3,100**
USTHPFFC-MW58	75-80	3/26/2002	**7**
USTHPFFC-MW59	75-80	3/27/2002	**210**
		8/23/2007 +	<1
USTHPFFC-MW60	45-50	3/27/2002	**3,000**
		7/17/2002	**2,700**
		8/20/2007 +	**6,700**
		8/20/2007 + dup	**8,170**
USTHPFFC-MW61	145-150	3/27/2002	<1
		3/27/2002 dup	<1
		8/20/2007 +	<1
USTHPFFC-MW62	150-155	3/26/2002	**1**
USTHPFFC-MW63	45-50	3/26/2002	**6**
		8/15/2007 +	<1
USTHPFFC-MW64	45-50	3/27/2002	**46**
USTHPFFC-MW65	75-80	3/27/2002	**21**
USTHPFFC-MW66	45-50	3/27/2002	**3,000**
		3/27/2002 dup	**3,100**
		8/17/2007 +	**3,830**
USTHPFFC-MW67	75-80	3/27/2002	<1
USTHPFFC-MW68	5-25	3/25/2002	**30**
USTHPFFC-MW69	45-50	3/27/2002	**1**
USTHPFFC-MW70	45-50	3/27/2002	<1
		8/16/2007 +	<1
USTHPFFC-MW71	75-80	3/27/2002	<1
		8/16/2007 +	<1

TABLE 24.2
SITE HPFF HISTORICAL ANALYTICAL RESULTS - GROUNDWATER (EPA METHOD 602/8260B) BENZENE ONLY

Well ID	Screen Interval (feet BLS)	Date Sampled	Benzene Concentration (µg/L)
2L GWQS (µg/L)			1
USTHPFFC-MW72	18-30	3/25/2002	**15,000**
		7/18/2002	**21,000**
		8/17/2007 +	**16,800**
USTHPFFC-MW73	45-50	4/23/2003	<1
		4/23/2003 dup	<1
		8/23/2007 +	<50*
USTHPFFC-MW74	75-80	4/23/2003	<1
		8/23/2007 +	<10*
USTHPFFC-MW75	55-75	5/7/2003	**650**
		5/14/2003	**1,300**
USTHPFFC-MW76	45-50	4/23/2003	**71**
		8/25/2007 +	<1
USTHPFFC-MW77	45-50	4/23/2003	<1
		8/15/2007 +	<1
USTHPFF-MW01	7-17	1/27/1999 +	**16,000**
		10/18/1999 +	**9,400**
		2/17/2000	**11,000**
		7/26/2000 +	**11,000**
		1/13/2001 +	**8,300**
		7/22/2001 +	**7,700**
		2/9/2002 +	**3,280**
		8/13/2002 +	**5,710**
		2/17/2003 +	**5,380**
		8/27/2003 +	**6,670**
		2/14/2004 +	**4,970**
		8/20/2004 +	**3,180**
		4/13/2005 +	**4,480**
		8/31/2005 +	**4,140**
		1/23/2006 +	**2,860**
		10/6/2006 +	**2,790**
		8/15/2007 +	**4,530**
USTHPFF-MW02	7-17	2/18/2000	**40,000**
USTHPFF-MW03	5-15	11/30/1995	BDL
		6/5/1997	BQL
		2/16/2000	BQL
		11/13/2000	BQL
		7/17/2002	<1
USTHPFF-MW04	5-15	11/30/1995	BDL
		6/4/1997	BQL
		2/16/2000	BQL
		11/13/2000	BQL
USTHPFF-MW05	5-15	6/5/1997	BQL
		2/17/2000	BQL
		11/16/2000	BQL
USTHPFF-MW06	5-15	11/30/1995	**30**
		6/4/1997	**9.3**
		2/22/2000	**9**
		11/16/2000	**28**
		7/17/2002	<10*
		8/21/2007 +	**38.1**

TABLE 24.2
SITE HPFF HISTORICAL ANALYTICAL RESULTS - GROUNDWATER (EPA METHOD 602/8260B) BENZENE ONLY

Well ID	Screen Interval (feet BLS)	Date Sampled	Benzene Concentration (µg/L)
2L GWQS (µg/L)			1
USTHPFF-MW09	5-15	11/30/1995	**1**
		6/5/1997	BQL
		2/15/2000	BQL
		11/13/2000	BQL
		7/17/2002	<1
		8/16/2007 +	<1
USTHPFF-MW10R	5-15	6/5/1997	**700**
		1/28/1999 +	**5,200**
		10/18/1999 +	**2,200**
		2/17/2000	**3,400**
		7/24/2000 +	**3,300**
		11/16/2000	**3,800**
		1/13/2001 +	**5,200**
		7/22/2001 +	**5,800**
		2/9/2002 +	**4,410**
		8/13/2002 +	**3,780**
		2/17/2003 +	**2,340**
		8/27/2003 +	**2,830**
		2/14/2004 +	**197**
		9/8/2004 +	**480**
		4/13/2005 +	**487**
		8/27/2005 +	**1,060**
		1/24/2006 +	**1,770**
		10/4/2006 +	**1,280**
		8/21/2007 +	**1,240**
USTHPFF-MW11	5-25	11/30/1995	**2.1**
		6/4/1997	BQL
		1/27/1999 +	**1.2**
		10/18/1999 +	**40**
		2/15/2000	**1,500**
		7/26/2000 +	**2,500**
		11/16/2000	**550**
		2/1/2001 +	**480**
		2/9/2002 +	**64.4**
		8/13/2002 +	**26.2**
		2/18/2003 +	**274**
		8/22/2003 +	**957**
		2/14/2004 +	**6.5**
		4/5/2005 +	**5.2**
		8/27/2005 +	**1.3**
		1/25/2006 +	**53.6**
		10/9/2006 +	**3.7**
		8/16/2007 +	<1
USTHPFF-MW12	5-25	8/20/2007 +	**758**
USTHPFF-MW15	5-25	11/30/1995	**18.5**
		6/5/1997	BQL
		8/17/2007 +	**561**

TABLE 24.2
SITE HPFF HISTORICAL ANALYTICAL RESULTS - GROUNDWATER (EPA METHOD 602/8260B) BENZENE ONLY

Well ID	Screen Interval (feet BLS)	Date Sampled	Benzene Concentration (µg/L)
2L GWQS (µg/L)			1
USTHPFF-MW17	5-25	11/30/1995	**5,750**
		6/5/1997	**5,340**
		1/28/1999 +	**7,700**
		10/18/1999 +	**5,400**
		2/18/2000	**32,000**
		7/24/2000 +	**6,700**
		11/15/2000	**15,000**
		1/13/2001 +	**16,000**
		7/22/2001 +	**12,000**
		2/9/2002 +	**12,200**
		8/13/2002 +	**6,140**
		2/21/2003 +	**5,720**
		8/25/2003 +	**6,830**
		2/20/2004 +	**5,520**
		9/13/2004 +	**4,910**
		4/13/2005 +	**6,500**
		8/31/2005 +	**7,380**
		1/24/2006 +	**5,630**
		10/6/2006 +	**4,480**
		8/16/2007 +	**7,240**
USTHPFF-MW18	5-25	6/5/1997	**20,450**
		1/28/1999 +	**28,000**
		10/18/1999 +	**15,000**
		2/17/2000	**20,000**
		7/26/2000 +	**16,000**
		11/16/2000	**15,000**
		1/13/2001 +	**12,000**
		7/22/2001 +	**11,000**
		2/9/2002 +	**18,900**
		8/14/2002 +	**18,200**
		2/18/2003 +	**16,900**
		8/27/2003 +	**5,440**
		2/14/2004 +	**12,900**
		8/20/2004 +	**7,040**
		4/13/2005 +	**12,800**
		8/31/2005 +	**12,300**
		1/23/2006 +	**12,400**
		10/6/2006 +	**10,300**
		8/15/2007 +	**15,400**
USTHPFF-MW19	5-25	11/30/1995	**3.3**
		6/5/1997	**5.6**
		2/17/2000	BQL
		11/15/2000	BQL
		7/18/2002	**210**
		8/14/2007 +	<1
USTHPFF-MW20	4-24	11/30/1995	**4.9**
		6/5/1997	BQL
		2/23/2000	BQL
		11/20/2000	BQL
		7/18/2002	**4**
		8/24/2007 +	<1

TABLE 24.2
SITE HPFF HISTORICAL ANALYTICAL RESULTS - GROUNDWATER (EPA METHOD 602/8260B) BENZENE ONLY

Well ID	Screen Interval (feet BLS)	Date Sampled	Benzene Concentration (µg/L)
2L GWQS (µg/L)			**1**
USTHPFF-MW21	4-19	6/5/1997	BQL
		2/16/2000	BQL
USTHPFF-MW23	8-18	6/5/1997	**3.8**
		2/23/2000	BQL
USTHPFF-MWA	4-14	11/13/2000	**2,900**

All results in micrograms per liter (µg/L).

Bold areas indicate concentrations in excess of 2L GWQS.

BQL = Below Quantitation Limits. Refer to analytical report for a complete list of compounds and quantitation limits.

* Laboratory practical quantitation limit is higher than the 2L GWQS.

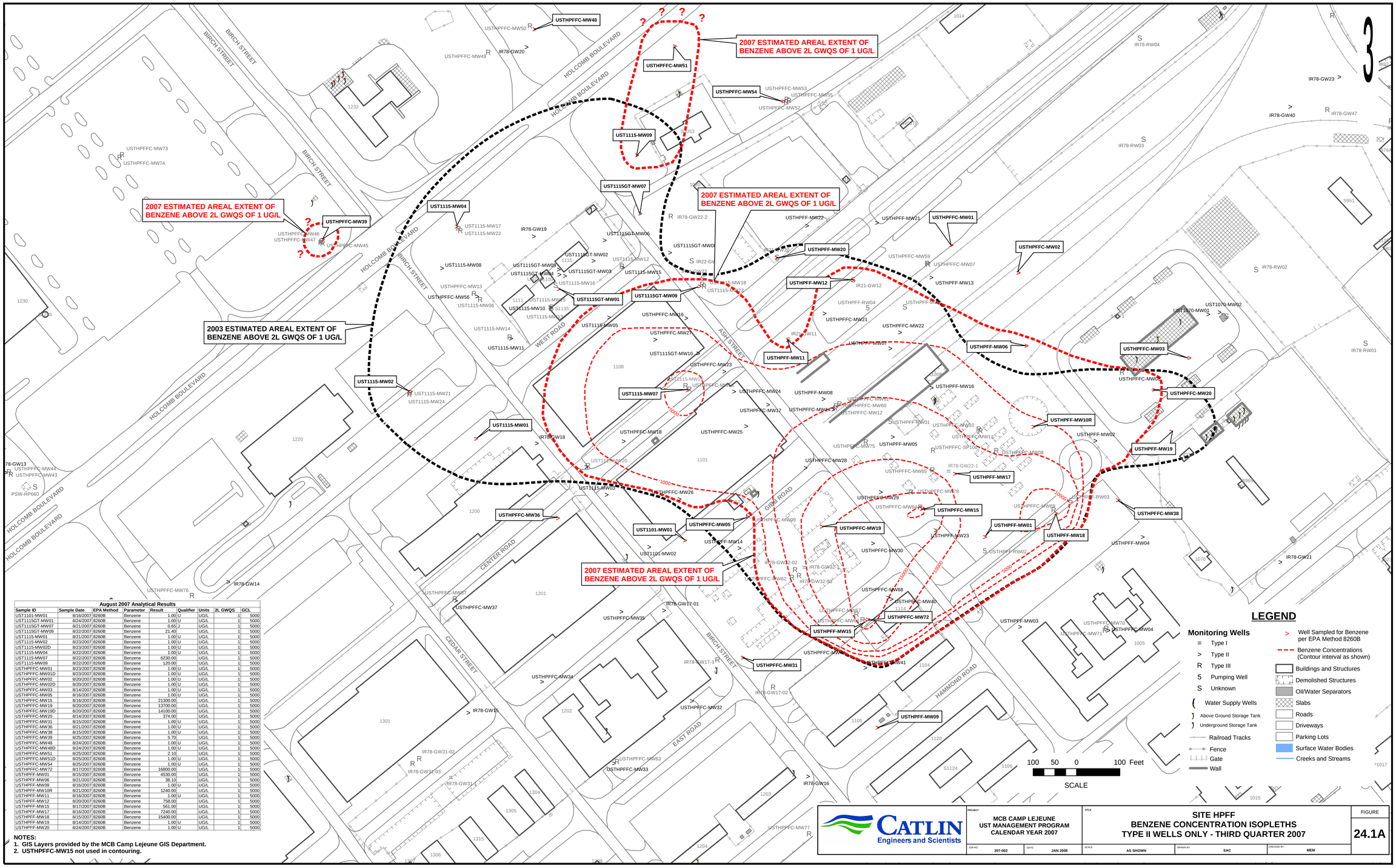
Dup = Duplicate sample taken.

+ Wells sampled by Shaw Environmental & Infrastructure.

ND = No Data

B = Detected in blank

J = Estimated concentration, below calibration range and above method detection limit.



August 2007 Analytical Results

Sample ID	Sample Date	EPA Method	Parameter	Result	Qualifier	Units	2L GWQS	GCL
UST1101-MW01	8/16/2007	8260B	Benzene	1.00	U	UG/L	1	5000
UST1115GT-MW01	8/24/2007	8260B	Benzene	1.00	U	UG/L	1	5000
UST1115GT-MW07	8/21/2007	8260B	Benzene	0.65	J	UG/L	1	5000
UST1115GT-MW09	8/22/2007	8260B	Benzene	21.40		UG/L	1	5000
UST1115-MW01	8/21/2007	8260B	Benzene	1.00	U	UG/L	1	5000
UST1115-MW02	8/23/2007	8260B	Benzene	1.00	U	UG/L	1	5000
UST1115-MW02D	8/23/2007	8260B	Benzene	1.00	U	UG/L	1	5000
UST1115-MW04	8/22/2007	8260B	Benzene	1.00	U	UG/L	1	5000
UST1115-MW07	8/22/2007	8260B	Benzene	6230.00		UG/L	1	5000
UST1115-MW09	8/22/2007	8260B	Benzene	120.00		UG/L	1	5000
USTHPFFC-MW01	8/23/2007	8260B	Benzene	1.00	U	UG/L	1	5000
USTHPFFC-MW01D	8/23/2007	8260B	Benzene	1.00	U	UG/L	1	5000
USTHPFFC-MW02	8/20/2007	8260B	Benzene	1.00	U	UG/L	1	5000
USTHPFFC-MW02D	8/20/2007	8260B	Benzene	1.00	U	UG/L	1	5000
USTHPFFC-MW03	8/14/2007	8260B	Benzene	1.00	U	UG/L	1	5000
USTHPFFC-MW05	8/16/2007	8260B	Benzene	1.00	U	UG/L	1	5000
USTHPFFC-MW15	8/16/2007	8260B	Benzene	21300.00		UG/L	1	5000
USTHPFFC-MW19	8/20/2007	8260B	Benzene	13700.00		UG/L	1	5000
USTHPFFC-MW19D	8/20/2007	8260B	Benzene	14100.00		UG/L	1	5000
USTHPFFC-MW20	8/14/2007	8260B	Benzene	374.00		UG/L	1	5000
USTHPFFC-MW31	8/15/2007	8260B	Benzene	1.00	U	UG/L	1	5000
USTHPFFC-MW36	8/21/2007	8260B	Benzene	1.00	U	UG/L	1	5000
USTHPFFC-MW38	8/15/2007	8260B	Benzene	1.00	U	UG/L	1	5000
USTHPFFC-MW39	8/25/2007	8260B	Benzene	5.70		UG/L	1	5000
USTHPFFC-MW48	8/24/2007	8260B	Benzene	1.00	U	UG/L	1	5000
USTHPFFC-MW48D	8/24/2007	8260B	Benzene	1.00	U	UG/L	1	5000
USTHPFFC-MW51	8/25/2007	8260B	Benzene	2.10		UG/L	1	5000
USTHPFFC-MW51D	8/25/2007	8260B	Benzene	1.00	U	UG/L	1	5000
USTHPFFC-MW54	8/25/2007	8260B	Benzene	1.00	U	UG/L	1	5000
USTHPFFC-MW72	8/17/2007	8260B	Benzene	16800.00		UG/L	1	5000
USTHPFF-MW01	8/15/2007	8260B	Benzene	4530.00		UG/L	1	5000
USTHPFF-MW06	8/21/2007	8260B	Benzene	38.10		UG/L	1	5000
USTHPFF-MW09	8/16/2007	8260B	Benzene	1.00	U	UG/L	1	5000
USTHPFF-MW10R	8/21/2007	8260B	Benzene	1240.00		UG/L	1	5000
USTHPFF-MW11	8/16/2007	8260B	Benzene	1.00	U	UG/L	1	5000
USTHPFF-MW12	8/20/2007	8260B	Benzene	758.00		UG/L	1	5000
USTHPFF-MW15	8/17/2007	8260B	Benzene	561.00		UG/L	1	5000
USTHPFF-MW17	8/16/2007	8260B	Benzene	7240.00		UG/L	1	5000
USTHPFF-MW18	8/15/2007	8260B	Benzene	15400.00		UG/L	1	5000
USTHPFF-MW19	8/14/2007	8260B	Benzene	1.00	U	UG/L	1	5000
USTHPFF-MW20	8/24/2007	8260B	Benzene	1.00	U	UG/L	1	5000

NOTES:
1. GIS Layers provided by the MCB Camp Lejeune GIS Department.
2. USTHPFFC-MW15 not used in contouring.

LEGEND

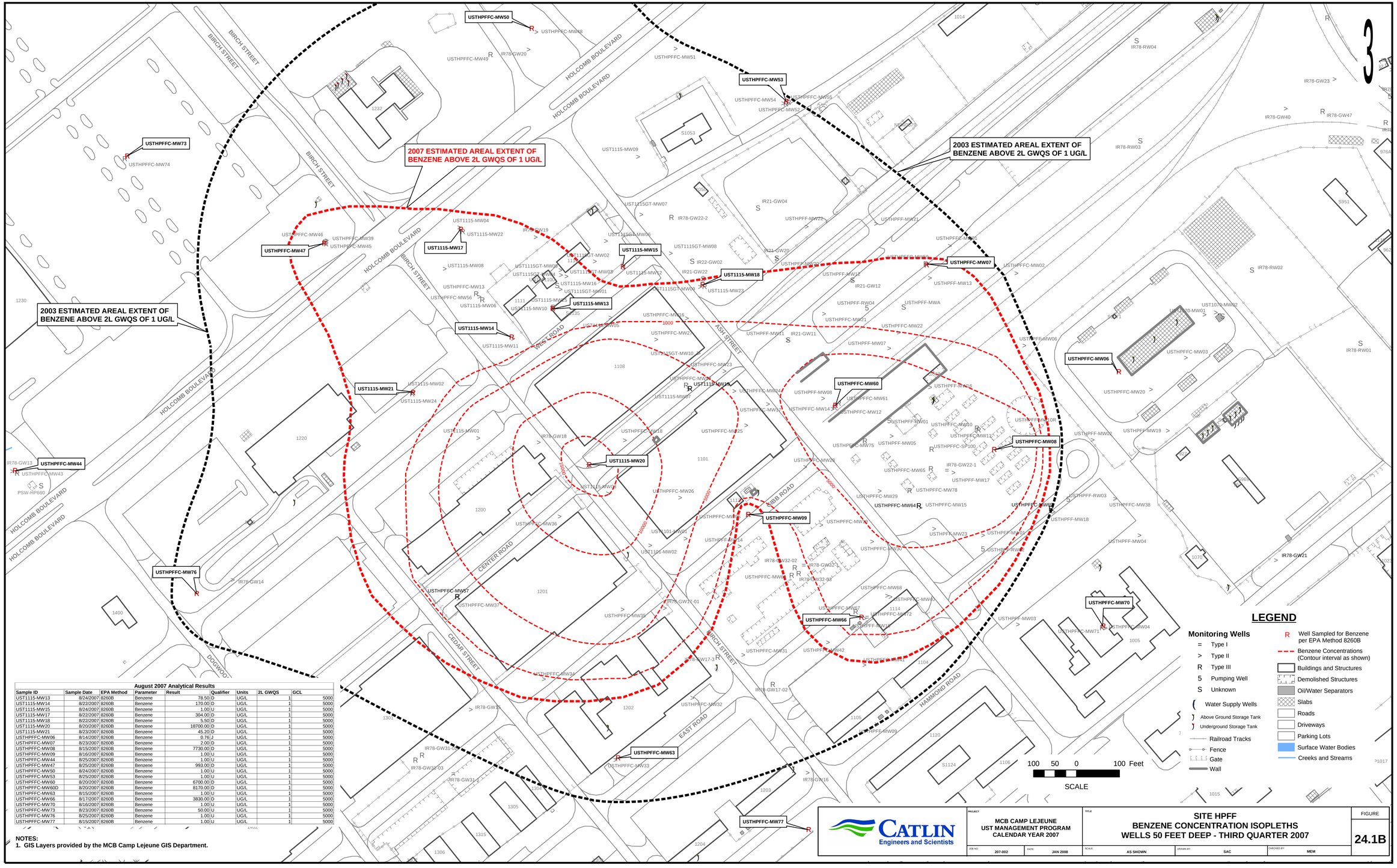
Monitoring Wells

- = Type I
- > Type II
- R Type III
- 5 Pumping Well
- S Unknown
- Water Supply Wells
- Above Ground Storage Tank
- Underground Storage Tank
- Railroad Tracks
- Fence
- Gate
- Wall
- > Well Sampled for Benzene per EPA Method 8260B
- Benzene Concentrations (Contour interval as shown)
- Buildings and Structures
- Demolished Structures
- Oil/Water Separators
- Slabs
- Roads
- Driveways
- Parking Lots
- Surface Water Bodies
- Creeks and Streams

CATLIN Engineers and Scientists

PROJECT	TITLE	FIGURE
MCB CAMP LEJEUNE UST MANAGEMENT PROGRAM CALENDAR YEAR 2007	SITE HPFF BENZENE CONCENTRATION ISOPLETHS TYPE II WELLS ONLY - THIRD QUARTER 2007	24.1A

JOB NO:	DATE:	SCALE:	DRAWN BY:	CHECKED BY:
207-002	JAN 2008	AS SHOWN	SAC	MEM



August 2007 Analytical Results

Sample ID	Sample Date	EPA Method	Parameter	Result	Qualifier	Units	2L GWQS	GCL
UST1115-MW13	8/24/2007	8260B	Benzene	78.50	D	UG/L	1	5000
UST1115-MW14	8/22/2007	8260B	Benzene	170.00	D	UG/L	1	5000
UST1115-MW15	8/24/2007	8260B	Benzene	1.00	U	UG/L	1	5000
UST1115-MW17	8/22/2007	8260B	Benzene	304.00	D	UG/L	1	5000
UST1115-MW18	8/22/2007	8260B	Benzene	5.50	D	UG/L	1	5000
UST1115-MW20	8/20/2007	8260B	Benzene	18700.00	D	UG/L	1	5000
UST1115-MW21	8/23/2007	8260B	Benzene	45.20	D	UG/L	1	5000
USTHPFFC-MW06	8/14/2007	8260B	Benzene	0.76	J	UG/L	1	5000
USTHPFFC-MW07	8/23/2007	8260B	Benzene	2.00	D	UG/L	1	5000
USTHPFFC-MW08	8/15/2007	8260B	Benzene	7730.00	D	UG/L	1	5000
USTHPFFC-MW09	8/16/2007	8260B	Benzene	1.00	U	UG/L	1	5000
USTHPFFC-MW44	8/25/2007	8260B	Benzene	1.00	U	UG/L	1	5000
USTHPFFC-MW47	8/25/2007	8260B	Benzene	993.00	D	UG/L	1	5000
USTHPFFC-MW50	8/24/2007	8260B	Benzene	1.00	U	UG/L	1	5000
USTHPFFC-MW53	8/25/2007	8260B	Benzene	1.00	U	UG/L	1	5000
USTHPFFC-MW60	8/20/2007	8260B	Benzene	6700.00	D	UG/L	1	5000
USTHPFFC-MW60D	8/20/2007	8260B	Benzene	8170.00	D	UG/L	1	5000
USTHPFFC-MW63	8/15/2007	8260B	Benzene	1.00	U	UG/L	1	5000
USTHPFFC-MW66	8/17/2007	8260B	Benzene	3830.00	D	UG/L	1	5000
USTHPFFC-MW70	8/16/2007	8260B	Benzene	1.00	U	UG/L	1	5000
USTHPFFC-MW73	8/23/2007	8260B	Benzene	50.00	U	UG/L	1	5000
USTHPFFC-MW76	8/25/2007	8260B	Benzene	1.00	U	UG/L	1	5000
USTHPFFC-MW77	8/15/2007	8260B	Benzene	1.00	U	UG/L	1	5000

NOTES:
1. GIS Layers provided by the MCB Camp Lejeune GIS Department.

CATLIN Engineers and Scientists

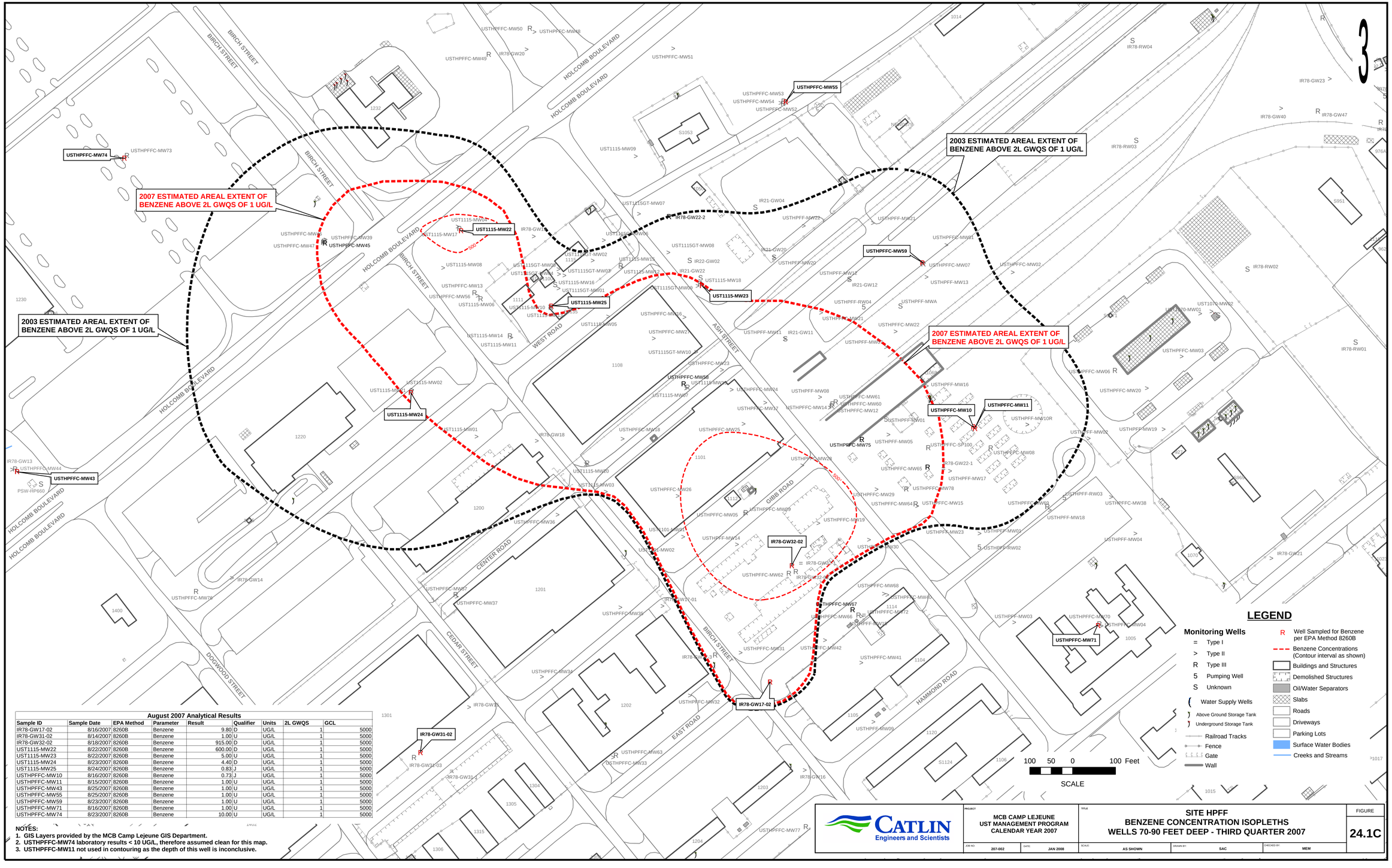
PROJECT: MCB CAMP LEJEUNE
UST MANAGEMENT PROGRAM
CALENDAR YEAR 2007

JOB NO: 207-002 | DATE: JAN 2008

TITLE: SITE HPFF
BENZENE CONCENTRATION ISOPLETHS
WELLS 50 FEET DEEP - THIRD QUARTER 2007

SCALE: AS SHOWN | DRAWN BY: SAC | CHECKED BY: MEM

FIGURE 24.1B



August 2007 Analytical Results

Sample ID	Sample Date	EPA Method	Parameter	Result	Qualifier	Units	2L GWQS	GCL
IR78-GW17-02	8/16/2007	8260B	Benzene	9.80	D	UG/L	1	5000
IR78-GW31-02	8/14/2007	8260B	Benzene	1.00	U	UG/L	1	5000
IR78-GW32-02	8/18/2007	8260B	Benzene	915.00	D	UG/L	1	5000
UST1115-MW22	8/22/2007	8260B	Benzene	600.00	D	UG/L	1	5000
UST1115-MW23	8/22/2007	8260B	Benzene	5.00	U	UG/L	1	5000
UST1115-MW24	8/23/2007	8260B	Benzene	4.40	D	UG/L	1	5000
UST1115-MW25	8/24/2007	8260B	Benzene	0.83	J	UG/L	1	5000
USTHPFFC-MW10	8/16/2007	8260B	Benzene	0.73	J	UG/L	1	5000
USTHPFFC-MW11	8/15/2007	8260B	Benzene	1.00	U	UG/L	1	5000
USTHPFFC-MW43	8/25/2007	8260B	Benzene	1.00	U	UG/L	1	5000
USTHPFFC-MW55	8/25/2007	8260B	Benzene	1.00	U	UG/L	1	5000
USTHPFFC-MW59	8/23/2007	8260B	Benzene	1.00	U	UG/L	1	5000
USTHPFFC-MW71	8/16/2007	8260B	Benzene	1.00	U	UG/L	1	5000
USTHPFFC-MW74	8/23/2007	8260B	Benzene	10.00	U	UG/L	1	5000

NOTES:
1. GIS Layers provided by the MCB Camp Lejeune GIS Department.
2. USTHPFFC-MW74 laboratory results < 10 UG/L, therefore assumed clean for this map.
3. USTHPFFC-MW11 not used in contouring as the depth of this well is inconclusive.

LEGEND

Monitoring Wells
- = Type I
- > Type II
- R Type III
- 5 Pumping Well
- S Unknown
- Water Supply Wells
- Above Ground Storage Tank
- Underground Storage Tank
- Railroad Tracks
- Fence
- Gate
- Wall

- R Well Sampled for Benzene per EPA Method 8260B
- Benzene Concentrations (Contour interval as shown)
- Buildings and Structures
- Demolished Structures
- Oil/Water Separators
- Slabs
- Roads
- Driveways
- Parking Lots
- Surface Water Bodies
- Creeks and Streams

CATLIN Engineers and Scientists

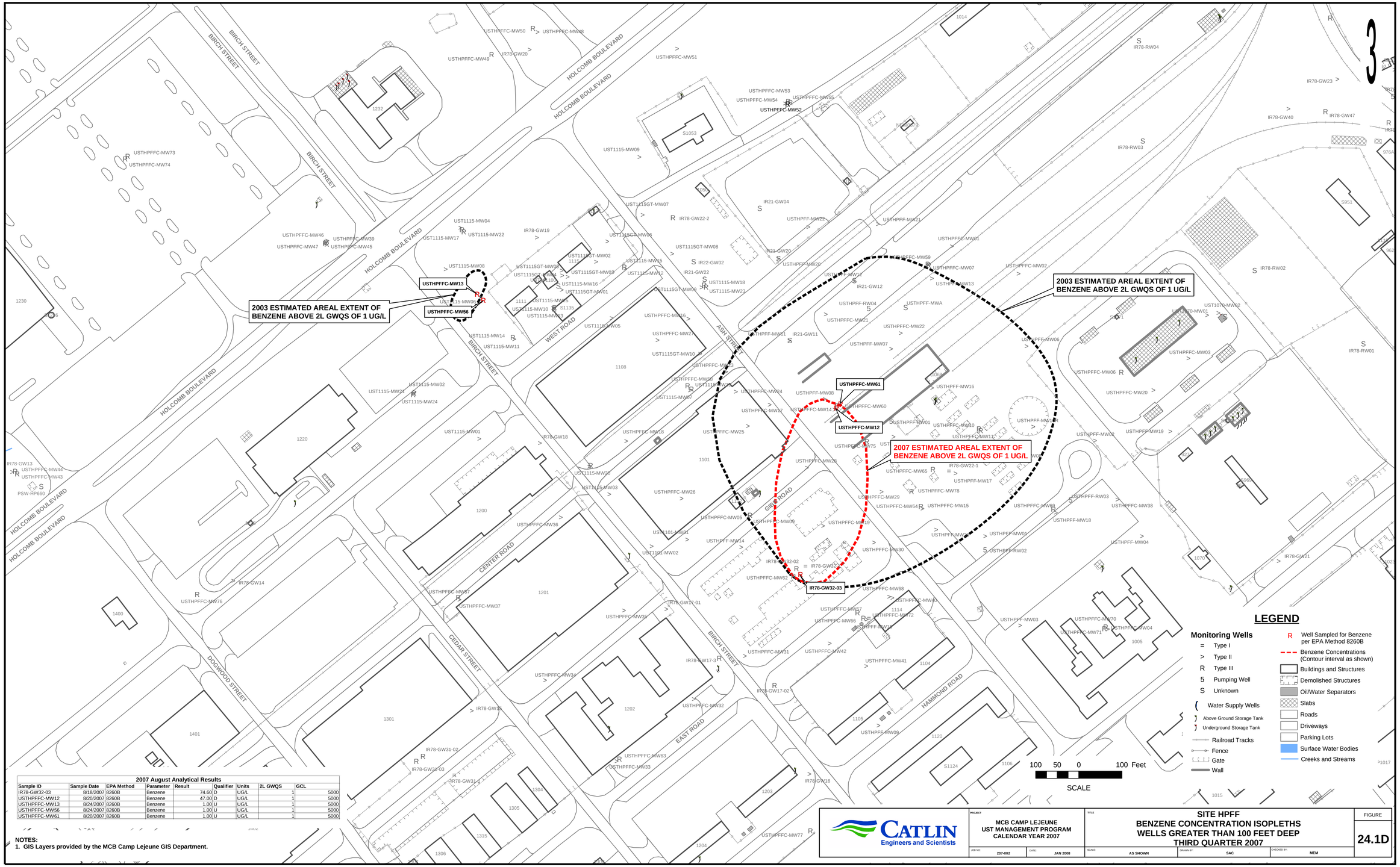
PROJECT: MCB CAMP LEJEUNE UST MANAGEMENT PROGRAM CALENDAR YEAR 2007

JOB NO.: 207-002 | DATE: JAN 2008

TITLE: SITE HPFF BENZENE CONCENTRATION ISOPLETHS WELLS 70-90 FEET DEEP - THIRD QUARTER 2007

SCALE: AS SHOWN | DRAWN BY: SAC | CHECKED BY: MEM

FIGURE 24.1C



2007 August Analytical Results

Sample ID	Sample Date	EPA Method	Parameter	Result	Qualifier	Units	2L GWQS	GCL
IR78-GW32-03	8/18/2007	8260B	Benzene	74.60	D	UG/L	1	5000
USTHPFFC-MW12	8/20/2007	8260B	Benzene	47.00	D	UG/L	1	5000
USTHPFFC-MW13	8/24/2007	8260B	Benzene	1.00	U	UG/L	1	5000
USTHPFFC-MW56	8/24/2007	8260B	Benzene	1.00	U	UG/L	1	5000
USTHPFFC-MW61	8/20/2007	8260B	Benzene	1.00	U	UG/L	1	5000

NOTES:
1. GIS Layers provided by the MCB Camp Lejeune GIS Department.

LEGEND

Monitoring Wells
- = Type I
- > Type II
- R Type III
- 5 Pumping Well
- S Unknown
- R Well Sampled for Benzene per EPA Method 8260B

Water Supply Wells

Above Ground Storage Tank

Underground Storage Tank

Railroad Tracks

Fence

Gate

Wall

Benzene Concentrations (Contour interval as shown)

Buildings and Structures

Demolished Structures

Oil/Water Separators

Slabs

Roads

Driveways

Parking Lots

Surface Water Bodies

Creeks and Streams

CATLIN Engineers and Scientists

PROJECT	MCB CAMP LEJEUNE UST MANAGEMENT PROGRAM CALENDAR YEAR 2007
TITLE	SITE HPFF BENZENE CONCENTRATION ISOPLETHS WELLS GREATER THAN 100 FEET DEEP THIRD QUARTER 2007
FIGURE	24.1D
JOB NO.	207-002
DATE	JAN 2008
SCALE	AS SHOWN
DRAWN BY	SAC
CHECKED BY	MEM

SECTION 25.0

OF THE

ANNUAL MANAGEMENT REPORT
MCB CAMP LEJEUNE UST MANAGEMENT PROGRAM

MONITORING EVENT:

YEAR 2007
(JANUARY – DECEMBER 2007)

SITE-SPECIFIC MONITORING REPORT
FOR

SITE LCH-4015

NCDENR INCIDENT NO. 85352

25.0 EXECUTIVE SUMMARY
SITE LCH-4015

25.1 Site Information

25.1.1 Site Location: MCB Camp Lejeune, Midway Park
25.1.2 Incident Number(s): 85352
25.1.3 UTM Coordinates (WGS84) (Meters): 285730.61 Easting, 3845185.59 Northing
25.1.4 Risk Classification: Not Applicable
25.1.5 Land Use Classification: Not Applicable
25.1.6 Source Type(s): Gasoline, Diesel Fuel, No. 2 Fuel Oil

25.2 Monitoring Event Information

25.2.1 Sampling Performed By: Sovereign
25.2.2 Date(s) of This Monitoring Event: October 2006, February/March 2007, and July 2007
25.2.3 Date(s) of Previous Monitoring Event: December 2005, January and April 2006
25.2.4 Reason(s) for This Monitoring Event: Track migration and attenuation of dissolved-phase plume.
25.2.5 Site Monitoring Status at Time of This Event: Semi-annual sampling of select on-site monitoring wells per EPA Methods 602, 625 and 6020.

25.3 Groundwater Hydraulics

25.3.1 Hydraulic Conductivity: Unknown
25.3.2 Effective Porosity: Unknown
25.3.3 Hydraulic Gradient: Unknown
25.3.4 Average Linear Groundwater Flow Velocity: Unknown
25.3.5 Groundwater Flow Direction(s): One component of flow to the North and another flow component to the West.
25.3.6 Range of Measured Water Table Elevations: See Table 25.1
25.3.7 Significant Changes from Previously Reported Data: None.

25.4 Free Product Plume

25.4.1 Free Product Present?: No.
25.4.2 Free Product Thickness Measured: Not Applicable
25.4.3 Plume Size and Location: Not Applicable
25.4.4 Free Product Removed from Site This Period: Not Applicable
25.4.5 Significant Changes from Previously Reported Data: None. See Figures 25.2A through 25.2C.

25.5 Dissolved-Phase Plume

25.5.1 Plume Concentrations: See Tables 25.2 through 25.4

25.5.2 Plume Size and Location: See Figures 25.2A through 25.4C

25.5.3 Significant Changes from Previously Reported Data: The current groundwater sample analytical results as compared to the January 2006 analytical results are discussed as follows:

EPA Method 602

Shallow Aquifer (Less than 15 feet BLS)
During the previous monitoring period (November 2005 and January 2006), Benzene concentrations were detected slightly above the 2L GWQS of 1 ug/L in the USTLCH4015–MW24 groundwater sample at a concentration of 1.8 ug/L. Benzene was again detected above the 2L GWQS in this monitoring well during the October 2006 sampling event, however, during the February 2007 and July 2007 sampling events no EPA Method 602 compounds were detected at concentrations in excess of the 2L GWQSs.

Intermediate Aquifer (Between 25 and 35 feet BLS)
There were no significant changes from the previously reported data. Benzene continues to be detected at concentrations in excess of the 2L GWQS in monitoring wells USTLCH4015-MW21 and USTLCH4015-MW23. See Figures 25.2A through 25.2C.

EPA Method 625

Shallow Aquifer (Less than 15 feet BLS)
During the previous monitoring period (January 2006), no EPA Method 625 compounds were detected in excess of the 2L GWQSs in monitoring well USTLCH4015-MW02. However, Naphthalene concentrations were detected above the 2L GWQS of 21 ug/L in this monitoring well at a concentration of 24.7 ug/L during the July 2007 sampling event.

Intermediate Aquifer (Between 25 and 35 feet BLS)
There were no significant changes from the previously reported data. Naphthalene continues to be detected at concentrations in excess of the 2L GWQS in monitoring well USTLCH4015-MW21. See Figures 25.3A through 25.3C.

EPA Method 6020

During the previous monitoring period (November 2005), Lead concentrations were detected above the 2L GWQS of 15 ug/L in the USTLCH4015-MW21 groundwater sample at a concentration of 18.8 ug/L. During the current sampling events Lead was not detected at concentrations in excess of the 2L GWQS in any of the well sampled. See Figures 25.4A through 25.4C.

25.6 Potential Receptors

25.6.1 Contaminated Water Supply Well(s)?: None
25.6.2 Potable Water Supply Well Within 1,000 Feet of Source Area?: No
25.6.3 Any Water Supply Well Within 250 Feet of Source Area?: No
25.6.4 Surface Water Body Within 500 Feet?: No
25.6.5 Past Evidence of Vapors?: No
25.6.6 Significant Changes from Previously Reported Data?: None

25.7 Remediation

25.7.1 Status: Continuous operation (with the exception of maintenance downtime) from November 1998 to June 2007. System was shutdown in June 2007 but restarted in August 2007 and continues to operate.
25.7.2 Type: Biosparge/SVE; 35 vertical biosparge wells and five horizontal SVE wells
25.7.3 Progress: On-going
25.7.4 Construction Contractor: J.A. Jones
25.7.5 Operating Contractor: Sovereign

25.8 Observations and Comments

Per EPA Method 625 analysis, Bis(2-ethylhexyl)phthalate was detected at concentrations above the 2L GWQS in several monitoring well during the previous and current monitoring events. It should be noted that this is not a petroleum-related compound. This compound is commonly used in plastics as a plasticizing agent. The occurrence of this compound is likely the result of sampling/laboratory artifact, resulting from the use of plastic sampling equipment and/or analytical instrument tubing. Therefore, this compound was not considered when evaluating proposed monitoring activities.

Groundwater sampling frequency should be reduced from semi-annual to annual. Also, per NCDENR approval EPA Method 6020 analysis should be removed from analysis list. CATLIN recommends the following wells be sampled on an annual basis per EPA Methods 602 and 625: USTLCH4015-MW01, USTLCH4015-MW02, USTLCH4015-MW03, USTLCH4015-MW05, USTLCH4015-MW014, USTLCH4015-MW19, USTLCH4015-MW20, USTLCH4015-MW21, USTLCH4015-MW22, USTLCH4015-MW23, and USTLCH4015-MW24. See the figure in Appendix A for the proposed monitoring schedule.

TABLE 25.1
SITE LCH-4015
FIELD MEASUREMENTS - JULY 2005 TO DECEMBER 2007

Well No.	Type	TOC	Date	DTW	Product Thickness	Corrected GWT Elevation
USTLCH4015-MW01	T-II	32.52	12/16/2005	3.37	0.00	29.15
USTLCH4015-MW01	T-II	32.52	1/17/2006	2.74	0.00	29.78
USTLCH4015-MW01	T-II	32.52	2/28/2006	2.17	0.00	30.35
USTLCH4015-MW01	T-II	32.52	3/9/2006	3.12	0.00	29.40
USTLCH4015-MW01	T-II	32.52	4/14/2006	3.43	0.00	29.09
USTLCH4015-MW01	T-II	32.52	5/1/2006	2.95	0.00	29.57
USTLCH4015-MW01	T-II	32.52	6/6/2006	3.30	0.00	29.22
USTLCH4015-MW01	T-II	32.52	10/11/2006	2.81	0.00	29.71
USTLCH4015-MW01	T-II	32.52	2/7/2007	2.08	0.00	30.44
USTLCH4015-MW01	T-II	32.52	7/23/2007	3.18	0.00	29.34
USTLCH4015-MW02	T-II	31.68	12/16/2005	1.30	0.00	30.38
USTLCH4015-MW02	T-II	31.68	1/17/2006	1.11	0.00	30.57
USTLCH4015-MW02	T-II	31.68	2/28/2006	0.95	0.00	30.73
USTLCH4015-MW02	T-II	31.68	3/9/2006	1.47	0.00	30.21
USTLCH4015-MW02	T-II	31.68	4/14/2006	1.84	0.00	29.84
USTLCH4015-MW02	T-II	31.68	5/1/2006	1.26	0.00	30.42
USTLCH4015-MW02	T-II	31.68	6/6/2006	1.61	0.00	30.07
USTLCH4015-MW02	T-II	31.68	10/11/2006	1.39	0.00	30.29
USTLCH4015-MW02	T-II	31.68	2/7/2007	0.87	0.00	30.81
USTLCH4015-MW02	T-II	31.68	7/23/2007	1.61	0.00	30.07
USTLCH4015-MW03	T-II	34.70	12/16/2005	4.80	0.00	29.90
USTLCH4015-MW03	T-II	34.70	1/17/2006	4.61	0.00	30.09
USTLCH4015-MW03	T-II	34.70	2/28/2006	4.28	0.00	30.42
USTLCH4015-MW03	T-II	34.70	3/9/2006	4.97	0.00	29.73
USTLCH4015-MW03	T-II	34.70	4/14/2006	2.14	0.00	32.56
USTLCH4015-MW03	T-II	34.70	5/1/2006	4.91	0.00	29.79

Notes:
1. T-II = Type II monitoring well
   T-III = Type III monitoring well
   RW = Recovery well
2. TOC = Top of casing elevation in feet relative to Mean Sea Level.
3. DTW = Depth to water (in feet) from top of well casing.
4. Product thickness is measured in feet.
5. GWT = Groundwater Table
6. A zero ("0.00") in the product thickness column indicates no measureable thickness.
7. GWT Elevation corrected for measurable free product, if present.

Well No.	Type	TOC	Date	DTW	Product Thickness	Corrected GWT Elevation
USTLCH4015-MW03	T-II	34.70	6/6/2006	5.25	0.00	29.45
USTLCH4015-MW03	T-II	34.70	10/11/2006	4.80	0.00	29.90
USTLCH4015-MW03	T-II	34.70	2/7/2007	4.26	0.00	30.44
USTLCH4015-MW03	T-II	34.70	7/23/2007	5.67	0.00	29.03
USTLCH4015-MW04	T-II	35.29	12/16/2005	4.20	0.00	31.09
USTLCH4015-MW04	T-II	35.29	1/17/2006	4.49	0.00	30.80
USTLCH4015-MW04	T-II	35.29	2/28/2006	4.17	0.00	31.12
USTLCH4015-MW04	T-II	35.29	3/9/2006	5.38	0.00	29.91
USTLCH4015-MW04	T-II	35.29	4/14/2006	6.53	0.00	28.76
USTLCH4015-MW04	T-II	35.29	5/1/2006	5.42	0.00	29.87
USTLCH4015-MW04	T-II	35.29	6/6/2006	6.20	0.00	29.09
USTLCH4015-MW04	T-II	35.29	10/11/2006	5.01	0.00	30.28
USTLCH4015-MW04	T-II	35.29	2/7/2007	4.45	0.00	30.84
USTLCH4015-MW04	T-II	35.29	7/23/2007	7.38	0.00	27.91
USTLCH4015-MW05	T-II	32.25	12/16/2005	2.28	0.00	29.97
USTLCH4015-MW05	T-II	32.25	1/17/2006	1.90	0.00	30.35
USTLCH4015-MW05	T-II	32.25	2/28/2006	1.44	0.00	30.81
USTLCH4015-MW05	T-II	32.25	3/9/2006	1.97	0.00	30.28
USTLCH4015-MW05	T-II	32.25	4/14/2006	2.48	0.00	29.77
USTLCH4015-MW05	T-II	32.25	5/1/2006	1.99	0.00	30.26
USTLCH4015-MW05	T-II	32.25	6/6/2006	2.33	0.00	29.92
USTLCH4015-MW05	T-II	32.25	10/11/2006	2.20	0.00	30.05
USTLCH4015-MW05	T-II	32.25	2/7/2007	1.98	0.00	30.27
USTLCH4015-MW05	T-II	32.25	7/23/2007	2.62	0.00	29.63
USTLCH4015-MW06	T-II	31.99	12/16/2005	1.63	0.00	30.36
USTLCH4015-MW06	T-II	31.99	1/17/2006	2.57	0.00	29.42
USTLCH4015-MW06	T-II	31.99	2/28/2006	2.11	0.00	29.88
USTLCH4015-MW06	T-II	31.99	3/9/2006	2.42	0.00	29.57
USTLCH4015-MW06	T-II	31.99	4/14/2006	2.85	0.00	29.14
USTLCH4015-MW06	T-II	31.99	5/1/2006	2.50	0.00	29.49
USTLCH4015-MW06	T-II	31.99	6/6/2006	2.46	0.00	29.53

Notes:
1. T-II = Type II monitoring well
   T-III = Type III monitoring well
   RW = Recovery well
2. TOC = Top of casing elevation in feet relative to Mean Sea Level.
3. DTW = Depth to water (in feet) from top of well casing.
4. Product thickness is measured in feet.
5. GWT = Groundwater Table
6. A zero ("0.00") in the product thickness column indicates no measureable thickness.
7. GWT Elevation corrected for measurable free product, if present.

Well No.	Type	TOC	Date	DTW	Product Thickness	Corrected GWT Elevation
USTLCH4015-MW06	T-II	31.99	10/11/2006	2.53	0.00	29.46
USTLCH4015-MW06	T-II	31.99	2/7/2007	2.30	0.00	29.69
USTLCH4015-MW06	T-II	31.99	7/23/2007	2.98	0.00	29.01
USTLCH4015-MW07	T-II	32.38	12/16/2005	1.70	0.00	30.68
USTLCH4015-MW07	T-II	32.38	1/17/2006	2.06	0.00	30.32
USTLCH4015-MW07	T-II	32.38	2/28/2006	0.68	0.00	31.70
USTLCH4015-MW07	T-II	32.38	3/9/2006	2.37	0.00	30.01
USTLCH4015-MW07	T-II	32.38	4/14/2006	2.56	0.00	29.82
USTLCH4015-MW07	T-II	32.38	5/1/2006	2.10	0.00	30.28
USTLCH4015-MW07	T-II	32.38	6/6/2006	3.59	0.00	28.79
USTLCH4015-MW07	T-II	32.38	10/11/2006	2.10	0.00	30.28
USTLCH4015-MW07	T-II	32.38	2/7/2007	0.40	0.00	31.98
USTLCH4015-MW07	T-II	32.38	7/23/2007	3.58	0.00	28.80
USTLCH4015-MW08	T-II	31.37	12/16/2005	0.70	0.00	30.67
USTLCH4015-MW08	T-II	31.37	1/17/2006	1.28	0.00	30.09
USTLCH4015-MW08	T-II	31.37	2/28/2006	1.15	0.00	30.22
USTLCH4015-MW08	T-II	31.37	3/9/2006	2.05	0.00	29.32
USTLCH4015-MW08	T-II	31.37	4/14/2006	2.87	0.00	28.50
USTLCH4015-MW08	T-II	31.37	5/1/2006	1.95	0.00	29.42
USTLCH4015-MW08	T-II	31.37	6/6/2006	2.01	0.00	29.36
USTLCH4015-MW08	T-II	31.37	10/11/2006	1.20	0.00	30.17
USTLCH4015-MW08	T-II	31.37	2/7/2007	1.35	0.00	30.02
USTLCH4015-MW08	T-II	31.37	7/23/2007	2.90	0.00	28.47
USTLCH4015-MW09	T-II	30.91	12/16/2005	0.15	0.00	30.76
USTLCH4015-MW09	T-II	30.91	1/17/2006	0.85	0.00	30.06
USTLCH4015-MW09	T-II	30.91	2/28/2006	0.80	0.00	30.11
USTLCH4015-MW09	T-II	30.91	3/9/2006	1.56	0.00	29.35
USTLCH4015-MW09	T-II	30.91	4/14/2006	2.14	0.00	28.77
USTLCH4015-MW09	T-II	30.91	5/1/2006	1.43	0.00	29.48
USTLCH4015-MW09	T-II	30.91	6/6/2006	1.45	0.00	29.46
USTLCH4015-MW09	T-II	30.91	10/11/2006	0.93	0.00	29.98

Notes:
1. T-II = Type II monitoring well
   T-III = Type III monitoring well
   RW = Recovery well
2. TOC = Top of casing elevation in feet relative to Mean Sea Level.
3. DTW = Depth to water (in feet) from top of well casing.
4. Product thickness is measured in feet.
5. GWT = Groundwater Table
6. A zero ("0.00") in the product thickness column indicates no measureable thickness.
7. GWT Elevation corrected for measurable free product, if present.

Well No.	Type	TOC	Date	DTW	Product Thickness	Corrected GWT Elevation
USTLCH4015-MW09	T-II	30.91	2/7/2007	1.14	0.00	29.77
USTLCH4015-MW09	T-II	30.91	7/23/2007	2.30	0.00	28.61
USTLCH4015-MW10	T-II	30.89	12/16/2005	0.40	0.00	30.49
USTLCH4015-MW10	T-II	30.89	1/17/2006	0.79	0.00	30.10
USTLCH4015-MW10	T-II	30.89	2/28/2006	0.55	0.00	30.34
USTLCH4015-MW10	T-II	30.89	3/9/2006	1.64	0.00	29.25
USTLCH4015-MW10	T-II	30.89	4/14/2006	1.95	0.00	28.94
USTLCH4015-MW10	T-II	30.89	5/1/2006	1.43	0.00	29.46
USTLCH4015-MW10	T-II	30.89	6/6/2006	0.71	0.00	30.18
USTLCH4015-MW10	T-II	30.89	10/11/2006	0.87	0.00	30.02
USTLCH4015-MW10	T-II	30.89	2/7/2007	0.79	0.00	30.10
USTLCH4015-MW10	T-II	30.89	7/23/2007	1.46	0.00	29.43
USTLCH4015-MW11	T-II	31.76	12/16/2005	2.99	0.00	28.77
USTLCH4015-MW11	T-II	31.76	1/17/2006	3.30	0.00	28.46
USTLCH4015-MW11	T-II	31.76	2/28/2006	2.81	0.00	28.95
USTLCH4015-MW11	T-II	31.76	3/9/2006	3.60	0.00	28.16
USTLCH4015-MW11	T-II	31.76	4/14/2006	3.98	0.00	27.78
USTLCH4015-MW11	T-II	31.76	5/1/2006	2.90	0.00	28.86
USTLCH4015-MW11	T-II	31.76	6/6/2006	3.77	0.00	27.99
USTLCH4015-MW11	T-II	31.76	10/11/2006	3.32	0.00	28.44
USTLCH4015-MW11	T-II	31.76	2/7/2007	2.99	0.00	28.77
USTLCH4015-MW11	T-II	31.76	7/23/2007	4.10	0.00	27.66
USTLCH4015-MW12	T-II	31.86	12/16/2005	4.15	0.00	27.71
USTLCH4015-MW12	T-II	31.86	1/17/2006	3.95	0.00	27.91
USTLCH4015-MW12	T-II	31.86	2/28/2006	3.36	0.00	28.50
USTLCH4015-MW12	T-II	31.86	3/9/2006	4.06	0.00	27.80
USTLCH4015-MW12	T-II	31.86	4/14/2006	4.41	0.00	27.45
USTLCH4015-MW12	T-II	31.86	5/1/2006	4.08	0.00	27.78
USTLCH4015-MW12	T-II	31.86	6/6/2006	4.41	0.00	27.45
USTLCH4015-MW12	T-II	31.86	10/11/2006	4.25	0.00	27.61
USTLCH4015-MW12	T-II	31.86	2/7/2007	3.47	0.00	28.39

Notes:
1. T-II = Type II monitoring well
   T-III = Type III monitoring well
   RW = Recovery well
2. TOC = Top of casing elevation in feet relative to Mean Sea Level.
3. DTW = Depth to water (in feet) from top of well casing.
4. Product thickness is measured in feet.
5. GWT = Groundwater Table
6. A zero ("0.00") in the product thickness column indicates no measureable thickness.
7. GWT Elevation corrected for measurable free product, if present.

Well No.	Type	TOC	Date	DTW	Product Thickness	Corrected GWT Elevation
USTLCH4015-MW12	T-II	31.86	7/23/2007	4.51	0.00	27.35
USTLCH4015-MW13	T-III	32.35	12/16/2005	22.22	0.00	10.13
USTLCH4015-MW13	T-III	32.35	1/17/2006	20.93	0.00	11.42
USTLCH4015-MW13	T-III	32.35	2/28/2006	21.79	0.00	10.56
USTLCH4015-MW13	T-III	32.35	3/9/2006	22.03	0.00	10.32
USTLCH4015-MW13	T-III	32.35	4/14/2006	22.37	0.00	9.98
USTLCH4015-MW13	T-III	32.35	5/1/2006	23.04	0.00	9.31
USTLCH4015-MW13	T-III	32.35	6/6/2006	22.98	0.00	9.37
USTLCH4015-MW13	T-III	32.35	10/11/2006	22.10	0.00	10.25
USTLCH4015-MW13	T-III	32.35	2/7/2007	20.08	0.00	12.27
USTLCH4015-MW13	T-III	32.35	7/23/2007	21.07	0.00	11.28
USTLCH4015-MW14	T-II	32.04	12/16/2005	4.42	0.00	27.62
USTLCH4015-MW14	T-II	32.04	1/17/2006	4.15	0.00	27.89
USTLCH4015-MW14	T-II	32.04	2/28/2006	3.69	0.00	28.35
USTLCH4015-MW14	T-II	32.04	3/9/2006	4.22	0.00	27.82
USTLCH4015-MW14	T-II	32.04	4/14/2006	4.50	0.00	27.54
USTLCH4015-MW14	T-II	32.04	5/1/2006	4.23	0.00	27.81
USTLCH4015-MW14	T-II	32.04	6/6/2006	4.57	0.00	27.47
USTLCH4015-MW14	T-II	32.04	10/11/2006	4.41	0.00	27.63
USTLCH4015-MW14	T-II	32.04	2/7/2007	3.67	0.00	28.37
USTLCH4015-MW14	T-II	32.04	7/23/2007	4.61	0.00	27.43
USTLCH4015-MW15	T-II	31.89	12/16/2005	3.42	0.00	28.47
USTLCH4015-MW15	T-II	31.89	1/17/2006	3.54	0.00	28.35
USTLCH4015-MW15	T-II	31.89	2/28/2006	2.92	0.00	28.97
USTLCH4015-MW15	T-II	31.89	3/9/2006	3.75	0.00	28.14
USTLCH4015-MW15	T-II	31.89	4/14/2006	3.83	0.00	28.06
USTLCH4015-MW15	T-II	31.89	5/1/2006	3.52	0.00	28.37
USTLCH4015-MW15	T-II	31.89	6/6/2006	3.65	0.00	28.24
USTLCH4015-MW15	T-II	31.89	10/11/2006	3.15	0.00	28.74
USTLCH4015-MW15	T-II	31.89	2/7/2007	2.99	0.00	28.90
USTLCH4015-MW15	T-II	31.89	7/23/2007	3.74	0.00	28.15

Notes:
1. T-II = Type II monitoring well
   T-III = Type III monitoring well
   RW = Recovery well
2. TOC = Top of casing elevation in feet relative to Mean Sea Level.
3. DTW = Depth to water (in feet) from top of well casing.
4. Product thickness is measured in feet.
5. GWT = Groundwater Table
6. A zero ("0.00") in the product thickness column indicates no measureable thickness.
7. GWT Elevation corrected for measurable free product, if present.

Well No.	Type	TOC	Date	DTW	Product Thickness	Corrected GWT Elevation
USTLCH4015-MW16	T-II	32.26	12/16/2005	0.33	0.00	31.93
USTLCH4015-MW16	T-II	32.26	1/17/2006	1.20	0.00	31.06
USTLCH4015-MW16	T-II	32.26	2/28/2006	0.65	0.00	31.61
USTLCH4015-MW16	T-II	32.26	3/9/2006	1.94	0.00	30.32
USTLCH4015-MW16	T-II	32.26	4/14/2006	2.38	0.00	29.88
USTLCH4015-MW16	T-II	32.26	5/1/2006	1.78	0.00	30.48
USTLCH4015-MW16	T-II	32.26	6/6/2006	2.32	0.00	29.94
USTLCH4015-MW16	T-II	32.26	10/11/2006	0.97	0.00	31.29
USTLCH4015-MW16	T-II	32.26	2/7/2007		0.00	
USTLCH4015-MW16	T-II	32.26	7/23/2007	2.91	0.00	29.35
USTLCH4015-MW17	T-II	0.00	12/16/2005	1.43	0.00	-1.43
USTLCH4015-MW18	T-II	32.60	12/16/2005	1.25	0.00	31.35
USTLCH4015-MW18	T-II	32.60	1/17/2006	2.05	0.00	30.55
USTLCH4015-MW18	T-II	32.60	2/28/2006	1.39	0.00	31.21
USTLCH4015-MW18	T-II	32.60	3/9/2006	2.25	0.00	30.35
USTLCH4015-MW18	T-II	32.60	4/14/2006	2.42	0.00	30.18
USTLCH4015-MW18	T-II	32.60	5/1/2006	0.00	0.00	32.60
USTLCH4015-MW18	T-II	32.60	6/6/2006	2.24	0.00	30.36
USTLCH4015-MW18	T-II	32.60	10/11/2006	0.88	0.00	31.72
USTLCH4015-MW18	T-II	32.60	2/7/2007	1.70	0.00	30.90
USTLCH4015-MW18	T-II	32.60	7/23/2007	2.36	0.00	30.24
USTLCH4015-MW19	T-III	32.61	12/16/2005	22.95	0.00	9.66
USTLCH4015-MW19	T-III	32.61	1/17/2006	21.56	0.00	11.05
USTLCH4015-MW19	T-III	32.61	2/28/2006	22.48	0.00	10.13
USTLCH4015-MW19	T-III	32.61	3/9/2006	22.78	0.00	9.83
USTLCH4015-MW19	T-III	32.61	4/14/2006	23.03	0.00	9.58
USTLCH4015-MW19	T-III	32.61	5/1/2006	23.72	0.00	8.89
USTLCH4015-MW19	T-III	32.61	6/6/2006	23.65	0.00	8.96
USTLCH4015-MW19	T-III	32.61	10/11/2006	22.80	0.00	9.81
USTLCH4015-MW19	T-III	32.61	2/7/2007	20.70	0.00	11.91

Notes:
1. T-II = Type II monitoring well
   T-III = Type III monitoring well
   RW = Recovery well
2. TOC = Top of casing elevation in feet relative to Mean Sea Level.
3. DTW = Depth to water (in feet) from top of well casing.
4. Product thickness is measured in feet.
5. GWT = Groundwater Table
6. A zero ("0.00") in the product thickness column indicates no measureable thickness.
7. GWT Elevation corrected for measurable free product, if present.

Well No.	Type	TOC	Date	DTW	Product Thickness	Corrected GWT Elevation
USTLCH4015-MW19	T-III	32.61	7/23/2007	21.58	0.00	11.03
USTLCH4015-MW20	T-III	32.13	12/16/2005	22.20	0.00	9.93
USTLCH4015-MW20	T-III	32.13	1/17/2006	20.80	0.00	11.33
USTLCH4015-MW20	T-III	32.13	2/28/2006	21.48	0.00	10.65
USTLCH4015-MW20	T-III	32.13	3/9/2006	21.89	0.00	10.24
USTLCH4015-MW20	T-III	32.13	4/14/2006	22.32	0.00	9.81
USTLCH4015-MW20	T-III	32.13	5/1/2006	22.55	0.00	9.58
USTLCH4015-MW20	T-III	32.13	6/6/2006	22.59	0.00	9.54
USTLCH4015-MW20	T-III	32.13	10/11/2006	21.80	0.00	10.33
USTLCH4015-MW20	T-III	32.13	2/7/2007	19.87	0.00	12.26
USTLCH4015-MW20	T-III	32.13	7/23/2007	20.75	0.00	11.38
USTLCH4015-MW21	T-III	32.64	12/16/2005	22.84	0.00	9.80
USTLCH4015-MW21	T-III	32.64	1/17/2006	24.46	0.00	8.18
USTLCH4015-MW21	T-III	32.64	2/28/2006	22.34	0.00	10.30
USTLCH4015-MW21	T-III	32.64	3/9/2006	22.58	0.00	10.06
USTLCH4015-MW21	T-III	32.64	4/14/2006	23.07	0.00	9.57
USTLCH4015-MW21	T-III	32.64	5/1/2006	23.16	0.00	9.48
USTLCH4015-MW21	T-III	32.64	6/6/2006	23.70	0.00	8.94
USTLCH4015-MW21	T-III	32.64	10/11/2006	22.60	0.00	10.04
USTLCH4015-MW21	T-III	32.64	2/7/2007	20.50	0.00	12.14
USTLCH4015-MW21	T-III	32.64	7/23/2007	21.49	0.00	11.15
USTLCH4015-MW22	T-III	32.04	12/16/2005	22.18	0.00	9.86
USTLCH4015-MW22	T-III	32.04	1/17/2006	20.76	0.00	11.28
USTLCH4015-MW22	T-III	32.04	2/28/2006	21.62	0.00	10.42
USTLCH4015-MW22	T-III	32.04	3/9/2006	21.84	0.00	10.20
USTLCH4015-MW22	T-III	32.04	4/14/2006	22.20	0.00	9.84
USTLCH4015-MW22	T-III	32.04	5/1/2006	22.90	0.00	9.14
USTLCH4015-MW22	T-III	32.04	6/6/2006	22.82	0.00	9.22
USTLCH4015-MW22	T-III	32.04	10/11/2006	21.98	0.00	10.06
USTLCH4015-MW22	T-III	32.04	2/7/2007	19.81	0.00	12.23
USTLCH4015-MW22	T-III	32.04	7/23/2007	20.72	0.00	11.32

Notes:
1. T-II = Type II monitoring well
   T-III = Type III monitoring well
   RW = Recovery well
2. TOC = Top of casing elevation in feet relative to Mean Sea Level.
3. DTW = Depth to water (in feet) from top of well casing.
4. Product thickness is measured in feet.
5. GWT = Groundwater Table
6. A zero ("0.00") in the product thickness column indicates no measureable thickness.
7. GWT Elevation corrected for measurable free product, if present.

Well No.	Type	TOC	Date	DTW	Product Thickness	Corrected GWT Elevation
USTLCH4015-MW23	T-III	32.54	12/16/2005	22.80	0.00	9.74
USTLCH4015-MW23	T-III	32.54	1/17/2006	21.30	0.00	11.24
USTLCH4015-MW23	T-III	32.54	2/28/2006	22.29	0.00	10.25
USTLCH4015-MW23	T-III	32.54	3/9/2006	22.61	0.00	9.93
USTLCH4015-MW23	T-III	32.54	4/14/2006	22.98	0.00	9.56
USTLCH4015-MW23	T-III	32.54	5/1/2006	23.60	0.00	8.94
USTLCH4015-MW23	T-III	32.54	6/6/2006	23.68	0.00	8.86
USTLCH4015-MW23	T-III	32.54	10/11/2006	22.72	0.00	9.82
USTLCH4015-MW23	T-III	32.54	2/7/2007	20.55	0.00	11.99
USTLCH4015-MW23	T-III	32.54	7/23/2007	21.31	0.00	11.23
USTLCH4015-MW24	T-II	31.23	6/6/2006	1.81	0.00	29.42
USTLCH4015-MW24	T-II	31.23	10/11/2006	1.56	0.00	29.67
USTLCH4015-MW24	T-II	31.23	2/7/2007	0.08	0.00	31.15
USTLCH4015-MW24	T-II	31.23	7/23/2007	2.12	0.00	29.11

Notes:
1. T-II = Type II monitoring well
   T-III = Type III monitoring well
   RW = Recovery well
2. TOC = Top of casing elevation in feet relative to Mean Sea Level.
3. DTW = Depth to water (in feet) from top of well casing.
4. Product thickness is measured in feet.
5. GWT = Groundwater Table
6. A zero ("0.00") in the product thickness column indicates no measureable thickness.
7. GWT Elevation corrected for measurable free product, if present.

TABLE 25.2

SITE LCH-4015

GROUNDWATER LABORATORY ANALYTICAL RESULTS - JULY 2005 TO DECEMBER 2007

EPA METHOD 602

Contaminant of Concern →		Benzene	Chlorobenzene	Diisopropyl ether (DIPE)	Ethylbenzene	Methyl Tert Butyl Ether	Methyl-tert butyl ether	Toluene	Total Xylenes	Xylenes (total)
Well ID	**Date**									
2L GWQS		1	50	70	550	200	200	1000	530	530
GCL		5000	0	70000	550000	200000	200000	257500	87500	87500
USTLCH4015-MW01	11/14/2005	48.10	2.10	BQL	143.00	7.20	BQL	4.90	BQL	268.00
USTLCH4015-MW01	1/19/2006	45.50	BQL	BQL	179.00	BQL	4.98	10.10	BQL	370.50
USTLCH4015-MW01	10/12/2006	12.00	BQL	7.23	118.00	BQL	21.10	5.21	191.20	BQL
USTLCH4015-MW01	2/6/2007	6.80	BQL	0.80	23.70	BQL	19.50	1.57	26.26	BQL
USTLCH4015-MW01	7/24/2007	9.74	BQL	BQL	145.00	BQL	BQL	BQL	293.00	BQL
USTLCH4015-MW02	11/14/2005	1.50	BQL	BQL	2.00	49.60	BQL	BQL	BQL	5.60
USTLCH4015-MW02	1/19/2006	3.63	BQL	BQL	6.10	BQL	16.70	BQL	BQL	BQL
USTLCH4015-MW02	10/11/2006	5.70	BQL	BQL	6.34	BQL	14.10	1.94	82.18	BQL
USTLCH4015-MW02	2/7/2007	BQL	BQL	BQL	BQL	BQL	14.20	BQL	BQL	BQL
USTLCH4015-MW02	7/24/2007	3.16	BQL	BQL	2.76	BQL	BQL	BQL	11.50	BQL

Notes:
1. 2L GWQS = North Carolina groundwater quality standard 15A NCAC 2L .0202
2. GCL = Gross Contamination Levels for ground water as defined in "Guidelines for Assessment and Corrective Action" North Carolina Underground Storage Tank Section, effective July 1, 2001
3. All units are in ug/L (Micrograms per Liter)
4. BQL = Below Quantitaion Limits
5. A zero in the 2L GWQS row indicates the 2L Standard is equal to the laboratory detection limit
6. A zero in the GCL row indicates a GCL has not been established
7. Shaded concentrations indicate exceedance of the 2L GWQS
8. Only compounds which were detected are shown on table. All other compounds were BQL
9. Please note, compounds reported in duplicate columns are the result of multiple laboratories submitting EDD data with different nomenclature. Unless BQL appears in both duplicate columns, a detection is present and that concentration is reported numerically.

TABLE 25.2

SITE LCH-4015

GROUNDWATER LABORATORY ANALYTICAL RESULTS - JULY 2005 TO DECEMBER 2007

EPA METHOD 602

Contaminant of Concern →		Benzene	Chlorobenzene	Diisopropyl ether (DIPE)	Ethylbenzene	Methyl Tert Butyl Ether	Methyl-tert butyl ether	Toluene	Total Xylenes	Xylenes (total)
Well ID	**Date**									
2L GWQS		1	50	70	550	200	200	1000	530	530
GCL		5000	0	70000	550000	200000	200000	257500	87500	87500
USTLCH4015-MW03	11/15/2005	BQL	BQL	BQL	BQL	1.10	BQL	BQL	BQL	BQL
USTLCH4015-MW03	1/19/2006	BQL	BQL	0.65	BQL	BQL	0.94	BQL	BQL	BQL
USTLCH4015-MW03	10/12/2006	BQL	BQL	BQL	0.36	BQL	0.78	0.83	0.92	BQL
USTLCH4015-MW03	2/7/2007	0.96	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
USTLCH4015-MW03	7/25/2007	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
USTLCH4015-MW04	7/25/2007	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
USTLCH4015-MW05	3/6/2007	BQL	BQL	BQL	BQL	BQL	BQL	0.32	BQL	BQL
USTLCH4015-MW05	7/25/2007	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
USTLCH4015-MW06	7/25/2007	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL

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5. A zero in the 2L GWQS row indicates the 2L Standard is equal to the laboratory detection limit
6. A zero in the GCL row indicates a GCL has not been established
7. Shaded concentrations indicate exceedance of the 2L GWQS
8. Only compounds which were detected are shown on table. All other compounds were BQL
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TABLE 25.2

SITE LCH-4015

GROUNDWATER LABORATORY ANALYTICAL RESULTS - JULY 2005 TO DECEMBER 2007

EPA METHOD 602

Contaminant of Concern →		Benzene	Chlorobenzene	Diisopropyl ether (DIPE)	Ethylbenzene	Methyl Tert Butyl Ether	Methyl-tert butyl ether	Toluene	Total Xylenes	Xylenes (total)
Well ID	**Date**									
2L GWQS		1	50	70	550	200	200	1000	530	530
GCL		5000	0	70000	550000	200000	200000	257500	87500	87500
USTLCH4015-MW07	7/24/2007	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
USTLCH4015-MW08	3/6/2007	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
USTLCH4015-MW08	7/25/2007	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
USTLCH4015-MW09	7/25/2007	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
USTLCH4015-MW10	7/25/2007	BQL	BQL	BQL	BQL	BQL	0.58	BQL	BQL	BQL
USTLCH4015-MW11	3/6/2007	BQL	BQL	BQL	7.40	BQL	BQL	0.85	BQL	BQL
USTLCH4015-MW11	7/25/2007	BQL	BQL	BQL	5.04	BQL	BQL	BQL	BQL	BQL
USTLCH4015-MW12	7/23/2007	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL

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3. All units are in ug/L (Micrograms per Liter)
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5. A zero in the 2L GWQS row indicates the 2L Standard is equal to the laboratory detection limit
6. A zero in the GCL row indicates a GCL has not been established
7. Shaded concentrations indicate exceedance of the 2L GWQS
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TABLE 25.2

SITE LCH-4015

GROUNDWATER LABORATORY ANALYTICAL RESULTS - JULY 2005 TO DECEMBER 2007

EPA METHOD 602

Contaminant of Concern →		Benzene	Chlorobenzene	Diisopropyl ether (DIPE)	Ethylbenzene	Methyl Tert Butyl Ether	Methyl-tert butyl ether	Toluene	Total Xylenes	Xylenes (total)
Well ID	**Date**									
2L GWQS		1	50	70	550	200	200	1000	530	530
GCL		5000	0	70000	550000	200000	200000	257500	87500	87500
USTLCH4015-MW13	11/15/2005	BQL	BQL	BQL	BQL	BQL	BQL	0.54	BQL	BQL
USTLCH4015-MW13	1/19/2006	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
USTLCH4015-MW13	10/12/2006	BQL	BQL	BQL	0.20	BQL	BQL	0.78	BQL	BQL
USTLCH4015-MW13	2/6/2007	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
USTLCH4015-MW13	7/23/2007	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
USTLCH4015-MW14	3/6/2007	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
USTLCH4015-MW14	7/23/2007	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
USTLCH4015-MW15	7/24/2007	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
USTLCH4015-MW16	7/24/2007	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL

Notes:
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2. GCL = Gross Contamination Levels for ground water as defined in "Guidelines for Assessment and Corrective Action" North Carolina Underground Storage Tank Section, effective July 1, 2001
3. All units are in ug/L (Micrograms per Liter)
4. BQL = Below Quantitaion Limits
5. A zero in the 2L GWQS row indicates the 2L Standard is equal to the laboratory detection limit
6. A zero in the GCL row indicates a GCL has not been established
7. Shaded concentrations indicate exceedance of the 2L GWQS
8. Only compounds which were detected are shown on table. All other compounds were BQL
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TABLE 25.2

SITE LCH-4015

GROUNDWATER LABORATORY ANALYTICAL RESULTS - JULY 2005 TO DECEMBER 2007

EPA METHOD 602

Contaminant of Concern →		Benzene	Chlorobenzene	Diisopropyl ether (DIPE)	Ethylbenzene	Methyl Tert Butyl Ether	Methyl-tert butyl ether	Toluene	Total Xylenes	Xylenes (total)
Well ID	**Date**									
2L GWQS		1	50	70	550	200	200	1000	530	530
GCL		5000	0	70000	550000	200000	200000	257500	87500	87500
USTLCH4015-MW18	11/15/2005	BQL	BQL	BQL	BQL	BQL	BQL	0.59	BQL	BQL
USTLCH4015-MW18	2/6/2007	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
USTLCH4015-MW18	7/24/2007	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
USTLCH4015-MW19	11/15/2005	BQL	BQL	BQL	BQL	BQL	BQL	0.63	BQL	BQL
USTLCH4015-MW19	1/19/2006	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
USTLCH4015-MW19	10/11/2006	0.32	BQL	BQL	0.83	BQL	BQL	3.76	4.56	BQL
USTLCH4015-MW19	2/6/2007	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
USTLCH4015-MW19	7/24/2007	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL

Notes:
1. 2L GWQS = North Carolina groundwater quality standard 15A NCAC 2L .0202
2. GCL = Gross Contamination Levels for ground water as defined in "Guidelines for Assessment and Corrective Action" North Carolina Underground Storage Tank Section, effective July 1, 2001
3. All units are in ug/L (Micrograms per Liter)
4. BQL = Below Quantitaion Limits
5. A zero in the 2L GWQS row indicates the 2L Standard is equal to the laboratory detection limit
6. A zero in the GCL row indicates a GCL has not been established
7. Shaded concentrations indicate exceedance of the 2L GWQS
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TABLE 25.2

SITE LCH-4015

GROUNDWATER LABORATORY ANALYTICAL RESULTS - JULY 2005 TO DECEMBER 2007

EPA METHOD 602

Contaminant of Concern →		Benzene	Chlorobenzene	Diisopropyl ether (DIPE)	Ethylbenzene	Methyl Tert Butyl Ether	Methyl-tert butyl ether	Toluene	Total Xylenes	Xylenes (total)
Well ID	**Date**									
2L GWQS		1	50	70	550	200	200	1000	530	530
GCL		5000	0	70000	550000	200000	200000	257500	87500	87500
USTLCH4015-MW20	11/14/2005	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
USTLCH4015-MW20	1/19/2006	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
USTLCH4015-MW20	10/11/2006	0.38	BQL	BQL	0.73	BQL	BQL	2.99	4.39	BQL
USTLCH4015-MW20	2/7/2007	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
USTLCH4015-MW20	7/24/2007	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
USTLCH4015-MW21	11/15/2005	10.90	BQL	BQL	1.90	26.10	BQL	0.66	BQL	1.30
USTLCH4015-MW21	1/19/2006	20.20	BQL	0.67	3.05	BQL	15.40	BQL	BQL	0.63
USTLCH4015-MW21	10/11/2006	13.20	BQL	0.69	2.59	BQL	15.70	3.86	4.80	BQL
USTLCH4015-MW21	2/6/2007	21.10	BQL	0.51	1.80	BQL	21.30	0.46	BQL	BQL
USTLCH4015-MW21	7/24/2007	21.00	BQL	0.37	1.31	BQL	19.40	BQL	BQL	BQL

Notes:
1. 2L GWQS = North Carolina groundwater quality standard 15A NCAC 2L .0202
2. GCL = Gross Contamination Levels for ground water as defined in "Guidelines for Assessment and Corrective Action" North Carolina Underground Storage Tank Section, effective July 1, 2001
3. All units are in ug/L (Micrograms per Liter)
4. BQL = Below Quantitaion Limits
5. A zero in the 2L GWQS row indicates the 2L Standard is equal to the laboratory detection limit
6. A zero in the GCL row indicates a GCL has not been established
7. Shaded concentrations indicate exceedance of the 2L GWQS
8. Only compounds which were detected are shown on table. All other compounds were BQL
9. Please note, compounds reported in duplicate columns are the result of multiple laboratories submitting EDD data with different nomenclature. Unless BQL appears in both duplicate columns, a detection is present and that concentration is reported numerically.

TABLE 25.2

SITE LCH-4015

GROUNDWATER LABORATORY ANALYTICAL RESULTS - JULY 2005 TO DECEMBER 2007

EPA METHOD 602

Contaminant of Concern →		Benzene	Chlorobenzene	Diisopropyl ether (DIPE)	Ethylbenzene	Methyl Tert Butyl Ether	Methyl-tert butyl ether	Toluene	Total Xylenes	Xylenes (total)
Well ID	**Date**									
2L GWQS		1	50	70	550	200	200	1000	530	530
GCL		5000	0	70000	550000	200000	200000	257500	87500	87500
USTLCH4015-MW22	11/15/2005	BQL	BQL	BQL	BQL	1.90	BQL	0.89	BQL	BQL
USTLCH4015-MW22	1/19/2006	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
USTLCH4015-MW22	10/11/2006	BQL	BQL	BQL	0.70	BQL	9.31	3.09	2.57	BQL
USTLCH4015-MW22	2/7/2007	BQL	BQL	BQL	BQL	BQL	8.34	BQL	BQL	BQL
USTLCH4015-MW22	7/24/2007	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
USTLCH4015-MW23	11/14/2005	4.20	BQL	BQL	0.66	17.90	BQL	0.71	BQL	1.30
USTLCH4015-MW23	1/19/2006	25.90	BQL	1.81	0.40	BQL	15.00	BQL	BQL	BQL
USTLCH4015-MW23	10/11/2006	116.00	BQL	7.05	3.51	BQL	84.40	5.17	5.74	BQL
USTLCH4015-MW23	2/6/2007	122.00	BQL	4.50	BQL	BQL	77.50	BQL	BQL	BQL
USTLCH4015-MW23	7/24/2007	46.30	BQL	3.24	BQL	BQL	42.30	BQL	BQL	BQL

Notes:
1. 2L GWQS = North Carolina groundwater quality standard 15A NCAC 2L .0202
2. GCL = Gross Contamination Levels for ground water as defined in "Guidelines for Assessment and Corrective Action" North Carolina Underground Storage Tank Section, effective July 1, 2001
3. All units are in ug/L (Micrograms per Liter)
4. BQL = Below Quantitaion Limits
5. A zero in the 2L GWQS row indicates the 2L Standard is equal to the laboratory detection limit
6. A zero in the GCL row indicates a GCL has not been established
7. Shaded concentrations indicate exceedance of the 2L GWQS
8. Only compounds which were detected are shown on table. All other compounds were BQL
9. Please note, compounds reported in duplicate columns are the result of multiple laboratories submitting EDD data with different nomenclature. Unless BQL appears in both duplicate columns, a detection is present and that concentration is reported numerically.

TABLE 25.2

SITE LCH-4015

GROUNDWATER LABORATORY ANALYTICAL RESULTS - JULY 2005 TO DECEMBER 2007

EPA METHOD 602

Contaminant of Concern →		Benzene	Chlorobenzene	Diisopropyl ether (DIPE)	Ethylbenzene	Methyl Tert Butyl Ether	Methyl-tert butyl ether	Toluene	Total Xylenes	Xylenes (total)
Well ID	**Date**									
2L GWQS		1	50	70	550	200	200	1000	530	530
GCL		5000	0	70000	550000	200000	200000	257500	87500	87500
USTLCH4015-MW24	11/15/2005	1.80	BQL	BQL	BQL	1.70	BQL	0.57	BQL	BQL
USTLCH4015-MW24	10/11/2006	1.34	BQL	1.53	0.76	BQL	1.39	2.16	3.21	BQL
USTLCH4015-MW24	2/7/2007	BQL	BQL	0.77	BQL	BQL	BQL	BQL	BQL	BQL
USTLCH4015-MW24	7/25/2007	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL

Notes:
1. 2L GWQS = North Carolina groundwater quality standard 15A NCAC 2L .0202
2. GCL = Gross Contamination Levels for ground water as defined in "Guidelines for Assessment and Corrective Action" North Carolina Underground Storage Tank Section, effective July 1, 2001
3. All units are in ug/L (Micrograms per Liter)
4. BQL = Below Quantitaion Limits
5. A zero in the 2L GWQS row indicates the 2L Standard is equal to the laboratory detection limit
6. A zero in the GCL row indicates a GCL has not been established
7. Shaded concentrations indicate exceedance of the 2L GWQS
8. Only compounds which were detected are shown on table. All other compounds were BQL
9. Please note, compounds reported in duplicate columns are the result of multiple laboratories submitting EDD data with different nomenclature. Unless BQL appears in both duplicate columns, a detection is present and that concentration is reported numerically.

TABLE 25.3

SITE LCH-4015

GROUNDWATER LABORATORY ANALYTICAL RESULTS - JULY 2005 TO DECEMBER 2007

EPA METHOD 625

Contaminant of Concern →		Acenaphthene	Acenaphthylene	Bis(2-ethylhexyl)phthalate	Diethylphthalate	Di-n-octylphthalate	Fluorene	Naphthalene
Well ID	**Date**							
2L GWQS		80	210	2.5	5000	140	280	21
GCL		2120	1965	2500	0	0	950	15500
USTLCH4015-MW01	11/14/2005	BQL	BQL	**4.60**	BQL	BQL	BQL	**105.00**
USTLCH4015-MW01	1/19/2006	BQL	BQL	**8.70**	BQL	BQL	BQL	**111.00**
USTLCH4015-MW01	10/12/2006	BQL	BQL	**10.70**	BQL	BQL	BQL	**45.50**
USTLCH4015-MW01	2/6/2007	BQL	BQL	**55.10**	BQL	BQL	BQL	17.10
USTLCH4015-MW01	7/24/2007	BQL	BQL	**9.90**	BQL	BQL	BQL	**100.00**
USTLCH4015-MW02	11/14/2005	BQL	BQL	BQL	BQL	BQL	BQL	2.30
USTLCH4015-MW02	1/19/2006	BQL	BQL	BQL	BQL	BQL	BQL	2.10
USTLCH4015-MW02	10/11/2006	BQL	BQL	BQL	BQL	BQL	BQL	9.40
USTLCH4015-MW02	2/7/2007	BQL	BQL	BQL	BQL	BQL	BQL	BQL
USTLCH4015-MW02	7/24/2007	BQL	BQL	BQL	BQL	BQL	BQL	**24.70**

Notes:
1. 2L GWQS = North Carolina groundwater quality standard 15A NCAC 2L .0202
2. GCL = Gross Contamination Levels for ground water as defined in "Guidelines for Assessment and Corrective Action" North Carolina Underground Storage Tank Section, effective July 1, 2001
3. All units are in ug/L (Micrograms per Liter)
4. BQL = Below Quantitaion Limits
5. A zero in the 2L GWQS row indicates the 2L Standard is equal to the laboratory detection limit
6. A zero in the GCL row indicates a GCL has not been established
7. Shaded concentrations indicate exceedance of the 2L GWQS
8. Only compounds which were detected are shown on table. All other compounds were BQL

TABLE 25.3

SITE LCH-4015

GROUNDWATER LABORATORY ANALYTICAL RESULTS - JULY 2005 TO DECEMBER 2007

EPA METHOD 625

Contaminant of Concern →		Acenaphthene	Acenaphthylene	Bis(2-ethylhexyl)phthalate	Diethylphthalate	Di-n-octylphthalate	Fluorene	Naphthalene
Well ID	Date							
2L GWQS		80	210	2.5	5000	140	280	21
GCL		2120	1965	2500	0	0	950	15500
USTLCH4015-MW03	11/15/2005	1.60	BQL	BQL	BQL	BQL	1.60	BQL
USTLCH4015-MW03	1/19/2006	BQL	BQL	BQL	BQL	BQL	BQL	BQL
USTLCH4015-MW03	10/12/2006	BQL	BQL	BQL	BQL	BQL	BQL	BQL
USTLCH4015-MW03	2/7/2007	BQL	BQL	5.80	BQL	20.20	BQL	BQL
USTLCH4015-MW03	7/25/2007	BQL	BQL	3.26	BQL	BQL	BQL	BQL
USTLCH4015-MW04	7/25/2007	BQL	BQL	BQL	BQL	BQL	BQL	2.33
USTLCH4015-MW05	3/6/2007	BQL	BQL	BQL	213.00	BQL	BQL	BQL
USTLCH4015-MW05	7/25/2007	BQL	BQL	BQL	4.77	BQL	BQL	BQL
USTLCH4015-MW06	7/25/2007	BQL	BQL	BQL	BQL	BQL	BQL	BQL
USTLCH4015-MW07	7/24/2007	BQL	BQL	BQL	BQL	BQL	BQL	1.20

Notes:
1. 2L GWQS = North Carolina groundwater quality standard 15A NCAC 2L .0202
2. GCL = Gross Contamination Levels for ground water as defined in "Guidelines for Assessment and Corrective Action" North Carolina Underground Storage Tank Section, effective July 1, 2001
3. All units are in ug/L (Micrograms per Liter)
4. BQL = Below Quantitaion Limits
5. A zero in the 2L GWQS row indicates the 2L Standard is equal to the laboratory detection limit
6. A zero in the GCL row indicates a GCL has not been established
7. Shaded concentrations indicate exceedance of the 2L GWQS
8. Only compounds which were detected are shown on table. All other compounds were BQL

TABLE 25.3

SITE LCH-4015

GROUNDWATER LABORATORY ANALYTICAL RESULTS - JULY 2005 TO DECEMBER 2007

EPA METHOD 625

Contaminant of Concern →		Acenaphthene	Acenaphthylene	Bis(2-ethylhexyl)phthalate	Diethylphthalate	Di-n-octylphthalate	Fluorene	Naphthalene
Well ID	Date							
2L GWQS		80	210	2.5	5000	140	280	21
GCL		2120	1965	2500	0	0	950	15500
USTLCH4015-MW08	3/6/2007	BQL	BQL	BQL	BQL	BQL	BQL	BQL
USTLCH4015-MW08	7/25/2007	BQL	BQL	BQL	BQL	BQL	BQL	BQL
USTLCH4015-MW09	7/25/2007	BQL	BQL	BQL	BQL	BQL	BQL	BQL
USTLCH4015-MW10	7/25/2007	BQL	BQL	BQL	BQL	BQL	BQL	BQL
USTLCH4015-MW11	3/6/2007	2.90	2.60	2.10	6.70	BQL	5.10	6.80
USTLCH4015-MW11	7/25/2007	BQL	BQL	BQL	BQL	BQL	BQL	BQL
USTLCH4015-MW12	7/23/2007	BQL	BQL	BQL	BQL	BQL	BQL	BQL

Notes:
1. 2L GWQS = North Carolina groundwater quality standard 15A NCAC 2L .0202
2. GCL = Gross Contamination Levels for ground water as defined in "Guidelines for Assessment and Corrective Action" North Carolina Underground Storage Tank Section, effective July 1, 2001
3. All units are in ug/L (Micrograms per Liter)
4. BQL = Below Quantitaion Limits
5. A zero in the 2L GWQS row indicates the 2L Standard is equal to the laboratory detection limit
6. A zero in the GCL row indicates a GCL has not been established
7. Shaded concentrations indicate exceedance of the 2L GWQS
8. Only compounds which were detected are shown on table. All other compounds were BQL

TABLE 25.3

SITE LCH-4015

GROUNDWATER LABORATORY ANALYTICAL RESULTS - JULY 2005 TO DECEMBER 2007

EPA METHOD 625

Contaminant of Concern →		Acenaphthene	Acenaphthylene	Bis(2-ethylhexyl)phthalate	Diethylphthalate	Di-n-octylphthalate	Fluorene	Naphthalene
Well ID	Date							
2L GWQS		80	210	2.5	5000	140	280	21
GCL		2120	1965	2500	0	0	950	15500
USTLCH4015-MW13	11/15/2005	BQL	BQL	BQL	BQL	BQL	BQL	BQL
USTLCH4015-MW13	1/19/2006	BQL	BQL	BQL	BQL	BQL	BQL	BQL
USTLCH4015-MW13	10/12/2006	BQL	BQL	BQL	BQL	BQL	BQL	BQL
USTLCH4015-MW13	2/6/2007	BQL	BQL	BQL	BQL	BQL	BQL	BQL
USTLCH4015-MW13	7/23/2007	BQL	BQL	BQL	BQL	BQL	BQL	BQL
USTLCH4015-MW14	3/6/2007	BQL	BQL	BQL	BQL	BQL	BQL	BQL
USTLCH4015-MW14	7/23/2007	BQL	BQL	BQL	BQL	BQL	BQL	BQL
USTLCH4015-MW15	7/24/2007	BQL	BQL	BQL	BQL	BQL	BQL	BQL
USTLCH4015-MW16	7/24/2007	BQL	BQL	BQL	BQL	BQL	BQL	BQL

Notes:
1. 2L GWQS = North Carolina groundwater quality standard 15A NCAC 2L .0202
2. GCL = Gross Contamination Levels for ground water as defined in "Guidelines for Assessment and Corrective Action" North Carolina Underground Storage Tank Section, effective July 1, 2001
3. All units are in ug/L (Micrograms per Liter)
4. BQL = Below Quantitaion Limits
5. A zero in the 2L GWQS row indicates the 2L Standard is equal to the laboratory detection limit
6. A zero in the GCL row indicates a GCL has not been established
7. Shaded concentrations indicate exceedance of the 2L GWQS
8. Only compounds which were detected are shown on table. All other compounds were BQL

TABLE 25.3

SITE LCH-4015

GROUNDWATER LABORATORY ANALYTICAL RESULTS - JULY 2005 TO DECEMBER 2007

EPA METHOD 625

Contaminant of Concern →		Acenaphthene	Acenaphthylene	Bis(2-ethylhexyl)phthalate	Diethylphthalate	Di-n-octylphthalate	Fluorene	Naphthalene
Well ID	Date							
2L GWQS		80	210	2.5	5000	140	280	21
GCL		2120	1965	2500	0	0	950	15500
USTLCH4015-MW18	11/15/2005	3.00	BQL	BQL	BQL	BQL	4.30	BQL
USTLCH4015-MW18	2/6/2007	2.10	BQL	BQL	BQL	BQL	2.70	BQL
USTLCH4015-MW18	7/24/2007	BQL	BQL	BQL	BQL	BQL	1.30	BQL
USTLCH4015-MW19	11/15/2005	2.40	BQL	BQL	BQL	BQL	BQL	BQL
USTLCH4015-MW19	1/19/2006	BQL	BQL	2.80	BQL	BQL	BQL	BQL
USTLCH4015-MW19	10/11/2006	1.40	BQL	BQL	BQL	BQL	BQL	BQL
USTLCH4015-MW19	2/6/2007	1.40	BQL	BQL	BQL	BQL	BQL	BQL
USTLCH4015-MW19	7/24/2007	2.20	BQL	BQL	BQL	BQL	BQL	BQL

Notes:
1. 2L GWQS = North Carolina groundwater quality standard 15A NCAC 2L .0202
2. GCL = Gross Contamination Levels for ground water as defined in "Guidelines for Assessment and Corrective Action" North Carolina Underground Storage Tank Section, effective July 1, 2001
3. All units are in ug/L (Micrograms per Liter)
4. BQL = Below Quantitaion Limits
5. A zero in the 2L GWQS row indicates the 2L Standard is equal to the laboratory detection limit
6. A zero in the GCL row indicates a GCL has not been established
7. Shaded concentrations indicate exceedance of the 2L GWQS
8. Only compounds which were detected are shown on table. All other compounds were BQL

TABLE 25.3

SITE LCH-4015

GROUNDWATER LABORATORY ANALYTICAL RESULTS - JULY 2005 TO DECEMBER 2007

EPA METHOD 625

Contaminant of Concern →		Acenaphthene	Acenaphthylene	Bis(2-ethylhexyl)phthalate	Diethylphthalate	Di-n-octylphthalate	Fluorene	Naphthalene
Well ID	Date							
2L GWQS		80	210	2.5	5000	140	280	21
GCL		2120	1965	2500	0	0	950	15500
USTLCH4015-MW20	11/14/2005	BQL	BQL	BQL	BQL	BQL	BQL	9.20
USTLCH4015-MW20	1/19/2006	BQL	BQL	BQL	BQL	BQL	BQL	BQL
USTLCH4015-MW20	10/11/2006	BQL	BQL	BQL	BQL	BQL	BQL	BQL
USTLCH4015-MW20	2/7/2007	BQL	BQL	BQL	BQL	BQL	BQL	BQL
USTLCH4015-MW20	7/24/2007	BQL	BQL	BQL	BQL	BQL	BQL	BQL
USTLCH4015-MW21	11/15/2005	BQL	BQL	BQL	BQL	BQL	BQL	32.30
USTLCH4015-MW21	1/19/2006	BQL	BQL	BQL	BQL	BQL	BQL	31.70
USTLCH4015-MW21	10/11/2006	BQL	BQL	BQL	BQL	BQL	BQL	44.00
USTLCH4015-MW21	2/6/2007	BQL	BQL	BQL	BQL	BQL	BQL	54.30
USTLCH4015-MW21	7/24/2007	BQL	BQL	BQL	BQL	BQL	BQL	41.80

Notes:
1. 2L GWQS = North Carolina groundwater quality standard 15A NCAC 2L .0202
2. GCL = Gross Contamination Levels for ground water as defined in "Guidelines for Assessment and Corrective Action" North Carolina Underground Storage Tank Section, effective July 1, 2001
3. All units are in ug/L (Micrograms per Liter)
4. BQL = Below Quantitaion Limits
5. A zero in the 2L GWQS row indicates the 2L Standard is equal to the laboratory detection limit
6. A zero in the GCL row indicates a GCL has not been established
7. Shaded concentrations indicate exceedance of the 2L GWQS
8. Only compounds which were detected are shown on table. All other compounds were BQL

TABLE 25.3

SITE LCH-4015

GROUNDWATER LABORATORY ANALYTICAL RESULTS - JULY 2005 TO DECEMBER 2007

EPA METHOD 625

Contaminant of Concern →		Acenaphthene	Acenaphthylene	Bis(2-ethylhexyl)phthalate	Diethylphthalate	Di-n-octylphthalate	Fluorene	Naphthalene
Well ID	Date							
2L GWQS		80	210	2.5	5000	140	280	21
GCL		2120	1965	2500	0	0	950	15500
USTLCH4015-MW22	11/15/2005	BQL	BQL	BQL	BQL	BQL	BQL	BQL
USTLCH4015-MW22	1/19/2006	BQL	BQL	BQL	BQL	BQL	BQL	BQL
USTLCH4015-MW22	10/11/2006	BQL	BQL	BQL	BQL	BQL	BQL	BQL
USTLCH4015-MW22	2/7/2007	BQL	BQL	BQL	BQL	BQL	BQL	BQL
USTLCH4015-MW22	7/24/2007	BQL	BQL	BQL	BQL	BQL	BQL	BQL
USTLCH4015-MW23	11/14/2005	BQL	BQL	BQL	BQL	BQL	BQL	BQL
USTLCH4015-MW23	1/19/2006	BQL	BQL	4.90	BQL	BQL	BQL	BQL
USTLCH4015-MW23	10/11/2006	BQL	BQL	BQL	BQL	BQL	BQL	BQL
USTLCH4015-MW23	2/6/2007	BQL	BQL	BQL	BQL	BQL	BQL	BQL
USTLCH4015-MW23	7/24/2007	BQL	BQL	BQL	BQL	BQL	BQL	BQL

Notes:
1. 2L GWQS = North Carolina groundwater quality standard 15A NCAC 2L .0202
2. GCL = Gross Contamination Levels for ground water as defined in "Guidelines for Assessment and Corrective Action" North Carolina Underground Storage Tank Section, effective July 1, 2001
3. All units are in ug/L (Micrograms per Liter)
4. BQL = Below Quantitaion Limits
5. A zero in the 2L GWQS row indicates the 2L Standard is equal to the laboratory detection limit
6. A zero in the GCL row indicates a GCL has not been established
7. Shaded concentrations indicate exceedance of the 2L GWQS
8. Only compounds which were detected are shown on table. All other compounds were BQL

TABLE 25.3

SITE LCH-4015

GROUNDWATER LABORATORY ANALYTICAL RESULTS - JULY 2005 TO DECEMBER 2007

EPA METHOD 625

Contaminant of Concern →		Acenaphthene	Acenaphthylene	Bis(2-ethylhexyl)phthalate	Diethylphthalate	Di-n-octylphthalate	Fluorene	Naphthalene
Well ID	Date							
2L GWQS		80	210	2.5	5000	140	280	21
GCL		2120	1965	2500	0	0	950	15500
USTLCH4015-MW24	11/15/2005	1.90	BQL	BQL	BQL	BQL	2.10	4.40
USTLCH4015-MW24	10/11/2006	2.10	BQL	BQL	BQL	BQL	2.60	4.80
USTLCH4015-MW24	2/7/2007	BQL	BQL	BQL	BQL	BQL	BQL	BQL
USTLCH4015-MW24	7/25/2007	BQL	BQL	BQL	BQL	BQL	BQL	BQL

Notes:
1. 2L GWQS = North Carolina groundwater quality standard 15A NCAC 2L .0202
2. GCL = Gross Contamination Levels for ground water as defined in "Guidelines for Assessment and Corrective Action" North Carolina Underground Storage Tank Section, effective July 1, 2001
3. All units are in ug/L (Micrograms per Liter)
4. BQL = Below Quantitaion Limits
5. A zero in the 2L GWQS row indicates the 2L Standard is equal to the laboratory detection limit
6. A zero in the GCL row indicates a GCL has not been established
7. Shaded concentrations indicate exceedance of the 2L GWQS
8. Only compounds which were detected are shown on table. All other compounds were BQL

TABLE 25.4

SITE LCH-4015

GROUNDWATER LABORATORY ANALYTICAL RESULTS - JULY 2005 TO DECEMBER 2007

EPA METHOD 6020

Contaminant of Concern →		
Well ID	**Date**	**Lead**
2L GWQS		15
GCL		15000
USTLCH4015-MW01	1/19/2006	0.60
USTLCH4015-MW01	10/12/2006	0.87
USTLCH4015-MW01	2/6/2007	1.53
USTLCH4015-MW01	7/24/2007	BQL
USTLCH4015-MW02	1/19/2006	BQL
USTLCH4015-MW02	10/11/2006	0.50
USTLCH4015-MW02	2/7/2007	0.50
USTLCH4015-MW02	7/24/2007	BQL
USTLCH4015-MW03	1/19/2006	BQL
USTLCH4015-MW03	10/12/2006	BQL
USTLCH4015-MW03	2/7/2007	BQL
USTLCH4015-MW03	7/25/2007	BQL

Notes:
1. 2L GWQS = North Carolina groundwater quality standard 15A NCAC 2L .0202
2. GCL = Gross Contamination Levels for ground water as defined in "Guidelines for Assessment and Corrective Action" North Carolina Underground Storage Tank Section, effective July 1, 2001
3. All units are in ug/L (Micrograms per Liter)
4. BQL = Below Quantitaion Limits
5. A zero in the 2L GWQS row indicates the 2L Standard is equal to the laboratory detection limit
6. A zero in the GCL row indicates a GCL has not been established
7. Shaded concentrations indicate exceedance of the 2L GWQS
8. Only compounds which were detected are shown on table. All other compounds were BQL

TABLE 25.4

SITE LCH-4015

GROUNDWATER LABORATORY ANALYTICAL RESULTS - JULY 2005 TO DECEMBER 2007

EPA METHOD 6020

Contaminant of Concern →		
Well ID	**Date**	Lead
2L GWQS		15
GCL		15000
USTLCH4015-MW04	7/25/2007	BQL
USTLCH4015-MW05	3/6/2007	BQL
USTLCH4015-MW05	7/25/2007	BQL
USTLCH4015-MW06	7/25/2007	4.30
USTLCH4015-MW07	7/24/2007	BQL
USTLCH4015-MW08	3/6/2007	BQL
USTLCH4015-MW08	7/25/2007	BQL
USTLCH4015-MW09	7/25/2007	BQL
USTLCH4015-MW10	7/25/2007	BQL
USTLCH4015-MW11	3/6/2007	BQL
USTLCH4015-MW11	7/25/2007	BQL

Notes:
1. 2L GWQS = North Carolina groundwater quality standard 15A NCAC 2L .0202
2. GCL = Gross Contamination Levels for ground water as defined in "Guidelines for Assessment and Corrective Action" North Carolina Underground Storage Tank Section, effective July 1, 2001
3. All units are in ug/L (Micrograms per Liter)
4. BQL = Below Quantitaion Limits
5. A zero in the 2L GWQS row indicates the 2L Standard is equal to the laboratory detection limit
6. A zero in the GCL row indicates a GCL has not been established
7. Shaded concentrations indicate exceedance of the 2L GWQS
8. Only compounds which were detected are shown on table. All other compounds were BQL

TABLE 25.4

SITE LCH-4015

GROUNDWATER LABORATORY ANALYTICAL RESULTS - JULY 2005 TO DECEMBER 2007

EPA METHOD 6020

Contaminant of Concern →		
Well ID	**Date**	Lead
2L GWQS		15
GCL		15000
USTLCH4015-MW12	7/23/2007	BQL
USTLCH4015-MW13	1/19/2006	BQL
USTLCH4015-MW13	10/12/2006	BQL
USTLCH4015-MW13	2/6/2007	BQL
USTLCH4015-MW13	7/23/2007	BQL
USTLCH4015-MW14	3/6/2007	BQL
USTLCH4015-MW14	7/23/2007	0.77
USTLCH4015-MW15	7/24/2007	BQL
USTLCH4015-MW16	7/24/2007	BQL
USTLCH4015-MW18	2/6/2007	1.57
USTLCH4015-MW18	7/24/2007	BQL

Notes:
1. 2L GWQS = North Carolina groundwater quality standard 15A NCAC 2L .0202
2. GCL = Gross Contamination Levels for ground water as defined in "Guidelines for Assessment and Corrective Action" North Carolina Underground Storage Tank Section, effective July 1, 2001
3. All units are in ug/L (Micrograms per Liter)
4. BQL = Below Quantitaion Limits
5. A zero in the 2L GWQS row indicates the 2L Standard is equal to the laboratory detection limit
6. A zero in the GCL row indicates a GCL has not been established
7. Shaded concentrations indicate exceedance of the 2L GWQS
8. Only compounds which were detected are shown on table. All other compounds were BQL

TABLE 25.4

SITE LCH-4015

GROUNDWATER LABORATORY ANALYTICAL RESULTS - JULY 2005 TO DECEMBER 2007

EPA METHOD 6020

Contaminant of Concern →		
Well ID	**Date**	**Lead**
2L GWQS		15
GCL		15000
USTLCH4015-MW19	1/19/2006	0.67
USTLCH4015-MW19	10/11/2006	BQL
USTLCH4015-MW19	2/6/2007	0.52
USTLCH4015-MW19	7/24/2007	BQL
USTLCH4015-MW20	1/19/2006	2.28
USTLCH4015-MW20	10/11/2006	0.80
USTLCH4015-MW20	2/7/2007	1.02
USTLCH4015-MW20	7/24/2007	BQL
USTLCH4015-MW21	1/19/2006	BQL
USTLCH4015-MW21	10/11/2006	1.90
USTLCH4015-MW21	2/6/2007	0.65
USTLCH4015-MW21	7/24/2007	BQL

Notes:
1. 2L GWQS = North Carolina groundwater quality standard 15A NCAC 2L .0202
2. GCL = Gross Contamination Levels for ground water as defined in "Guidelines for Assessment and Corrective Action" North Carolina Underground Storage Tank Section, effective July 1, 2001
3. All units are in ug/L (Micrograms per Liter)
4. BQL = Below Quantitaion Limits
5. A zero in the 2L GWQS row indicates the 2L Standard is equal to the laboratory detection limit
6. A zero in the GCL row indicates a GCL has not been established
7. Shaded concentrations indicate exceedance of the 2L GWQS
8. Only compounds which were detected are shown on table. All other compounds were BQL

TABLE 25.4

SITE LCH-4015

GROUNDWATER LABORATORY ANALYTICAL RESULTS - JULY 2005 TO DECEMBER 2007

EPA METHOD 6020

Contaminant of Concern →		
Well ID	**Date**	Lead
2L GWQS		15
GCL		15000
USTLCH4015-MW22	1/19/2006	BQL
USTLCH4015-MW22	10/11/2006	BQL
USTLCH4015-MW22	2/7/2007	BQL
USTLCH4015-MW22	7/24/2007	BQL
USTLCH4015-MW23	1/19/2006	BQL
USTLCH4015-MW23	10/11/2006	BQL
USTLCH4015-MW23	2/6/2007	BQL
USTLCH4015-MW23	7/24/2007	BQL
USTLCH4015-MW24	10/11/2006	1.33
USTLCH4015-MW24	2/7/2007	BQL
USTLCH4015-MW24	7/25/2007	BQL

Notes:
1. 2L GWQS = North Carolina groundwater quality standard 15A NCAC 2L .0202
2. GCL = Gross Contamination Levels for ground water as defined in "Guidelines for Assessment and Corrective Action" North Carolina Underground Storage Tank Section, effective July 1, 2001
3. All units are in ug/L (Micrograms per Liter)
4. BQL = Below Quantitaion Limits
5. A zero in the 2L GWQS row indicates the 2L Standard is equal to the laboratory detection limit
6. A zero in the GCL row indicates a GCL has not been established
7. Shaded concentrations indicate exceedance of the 2L GWQS
8. Only compounds which were detected are shown on table. All other compounds were BQL

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UST MANAGEMENT PROGRAM
CALENDAR YEAR 2007

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N

USTLCH4015-MW13
USTLCH4015-MW12
USTLCH4022-MW06
USTLCH4015-MW14
USTLCH4015-MW11
LCH4038
BUTLER DRIVE SOUTH
LCH4014
USTLCH4015-MW06
USTLCH4015-MW15
USTLCH4015-MW07
LCH4045
USTLCH4015-MW18
USTLCH4015-MW21
USTLCH4015-MW19
LCH4034
USTLCH4015-MW05
USTLCH4015-MW22
USTLCH4015-MW20
USTLCH4015-MW23
USTLCH4015-MW16
LCH1018
ATMLCH4034
USTLCH4015-MW01
USTLCH4015-MW02
LCH1016
LCH1014
USTLCH4015-MW10
USTLCH4015-MW17
NC ROUTE 24
USTLCH4015-MW24
UNK503
USTLCH4015-MW03
LCH1012
USTLCH4015-MW04
USTLCH4015-MW09
LCH1010
LCH1008
USTLCH4015-MW08
60 30 0 60 Feet
SCALE

LEGEND

Monitoring Wells
- Type I
- Type II
- Type III
- Pumping Well
- Unknown Well Type
- Water Supply Wells
- Above Ground Storage Tank
- Underground Storage Tank
- Railroad Tracks

Walls and Fences
- FENCE
- GATE
- WALL

Free Product
- Free Product Detected
- No Measurable Thickness
- Free Product Plume
- Buildings and Structures
- Demolished Structures
- Oil/Water Separators
- Slabs
- Roads
- Driveways
- Parking Lots
- Surface Water Bodies
- Creeks and Streams
- Historical Groundwater Flow Direction

Vegetation Cover
- Forestland
- Scrubland
- Wetland

Airfield Pavement
- HELIPAD
- RAMP
- RUNWAY
- SHLDR_OVERRUN
- TAXIWAY

NOTES

1. Free Product was not detected at this site in any of the wells gauged during this monitoring event.

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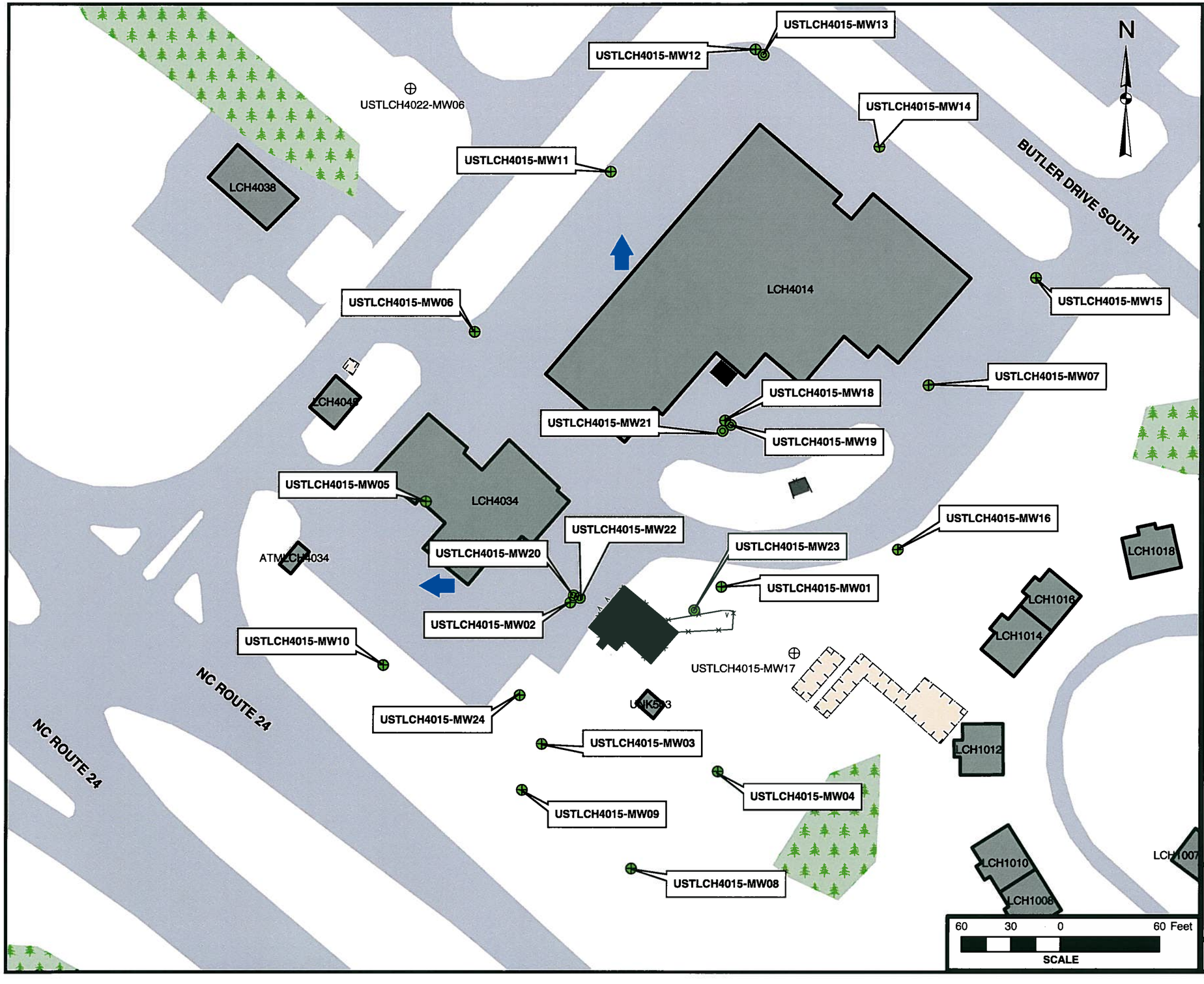
SITE LCH-4015
FREE PRODUCT PLUME MAP
FOURTH QUARTER 2006

FIGURE
25.1A

Job No.:	Date:	Scale:	Drawn By:	Checked By:
207-002	DEC 2007	AS SHOWN	SAC	MEM

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UST MANAGEMENT PROGRAM
CALENDAR YEAR 2007

NAVFAC
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LEGEND

Monitoring Wells
- Type I
- Type II
- Type III
- Pumping Well
- Unknown Well Type
- Water Supply Wells
- Above Ground Storage Tank
- Underground Storage Tank
- Railroad Tracks

Walls and Fences
- FENCE
- GATE
- WALL

Free Product
- Free Product Detected
- No Measurable Thickness
- Free Product Plume
- Buildings and Structures
- Demolished Structures
- Oil/Water Separators
- Slabs
- Roads
- Driveways
- Parking Lots
- Surface Water Bodies
- Creeks and Streams
- Historical Groundwater Flow Direction

Vegetation Cover
- Forestland
- Scrubland
- Wetland

Airfield Pavement
- HELIPAD
- RAMP
- RUNWAY
- SHLDR_OVERRUN
- TAXIWAY

NOTES

1. Free Product was not detected at this site in any of the wells gauged during this monitoring event.

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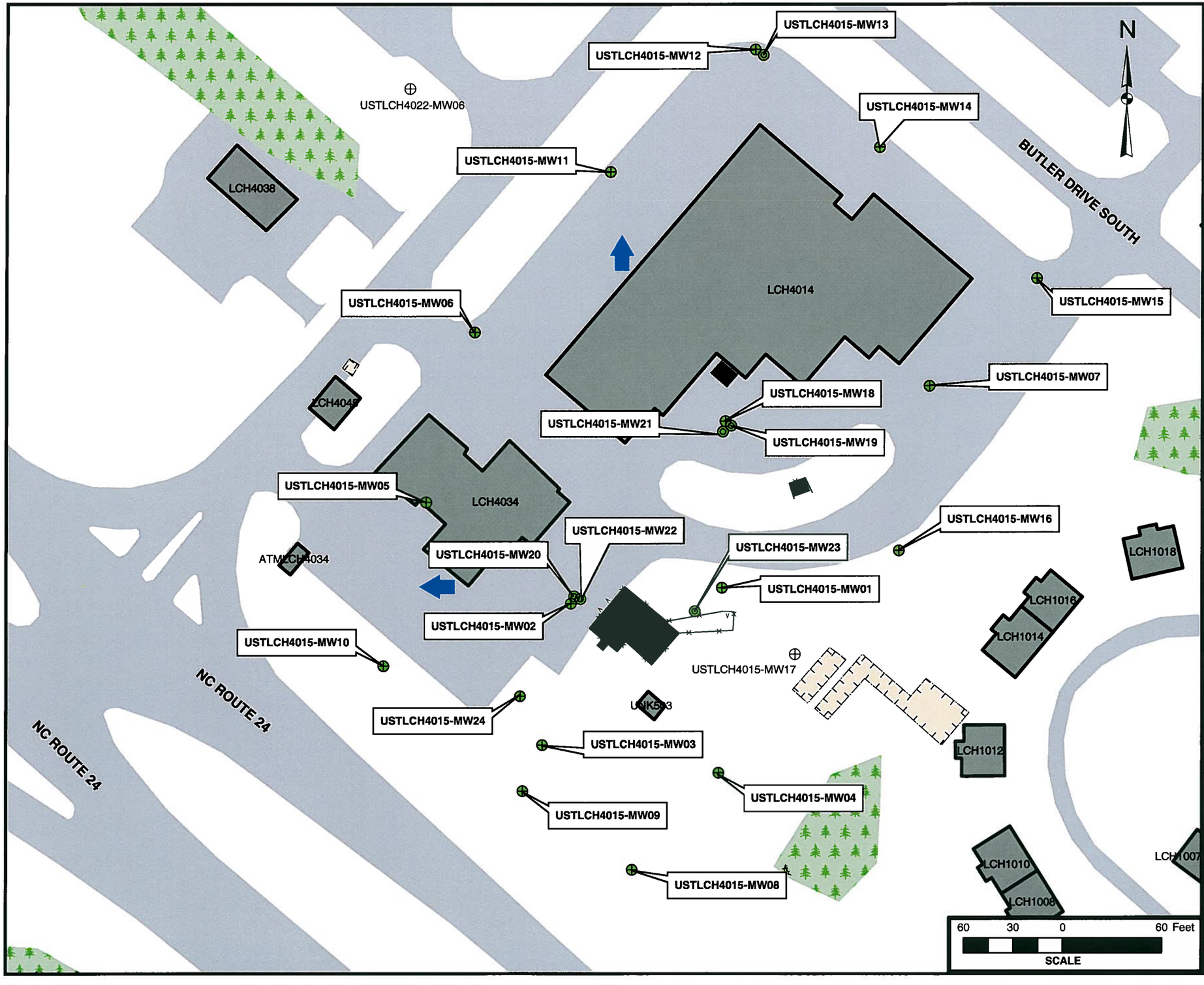
SITE LCH-4015
FREE PRODUCT PLUME MAP
FIRST QUARTER 2007

FIGURE **25.1B**

Job No.:	Date:	Scale:	Drawn By:	Checked By:
207-002	DEC 2007	AS SHOWN	SAC	MEM

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UST MANAGEMENT PROGRAM
CALENDAR YEAR 2007

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LEGEND

Monitoring Wells
- Type I
- Type II
- Type III
- Pumping Well
- Unknown Well Type
- Water Supply Wells
- Above Ground Storage Tank
- Underground Storage Tank
- Railroad Tracks

Walls and Fences
- FENCE
- GATE
- WALL

Free Product
- Free Product Detected
- No Measurable Thickness
- Free Product Plume
- Buildings and Structures
- Demolished Structures
- Oil/Water Separators
- Slabs
- Roads
- Driveways
- Parking Lots
- Surface Water Bodies
- Creeks and Streams
- Historical Groundwater Flow Direction

Vegetation Cover
- Forestland
- Scrubland
- Wetland

Airfield Pavement
- HELIPAD
- RAMP
- RUNWAY
- SHLDR_OVERRUN
- TAXIWAY

NOTES

1. Free Product was not detected at this site in any of the wells gauged during this monitoring event.

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Engineers and Scientists

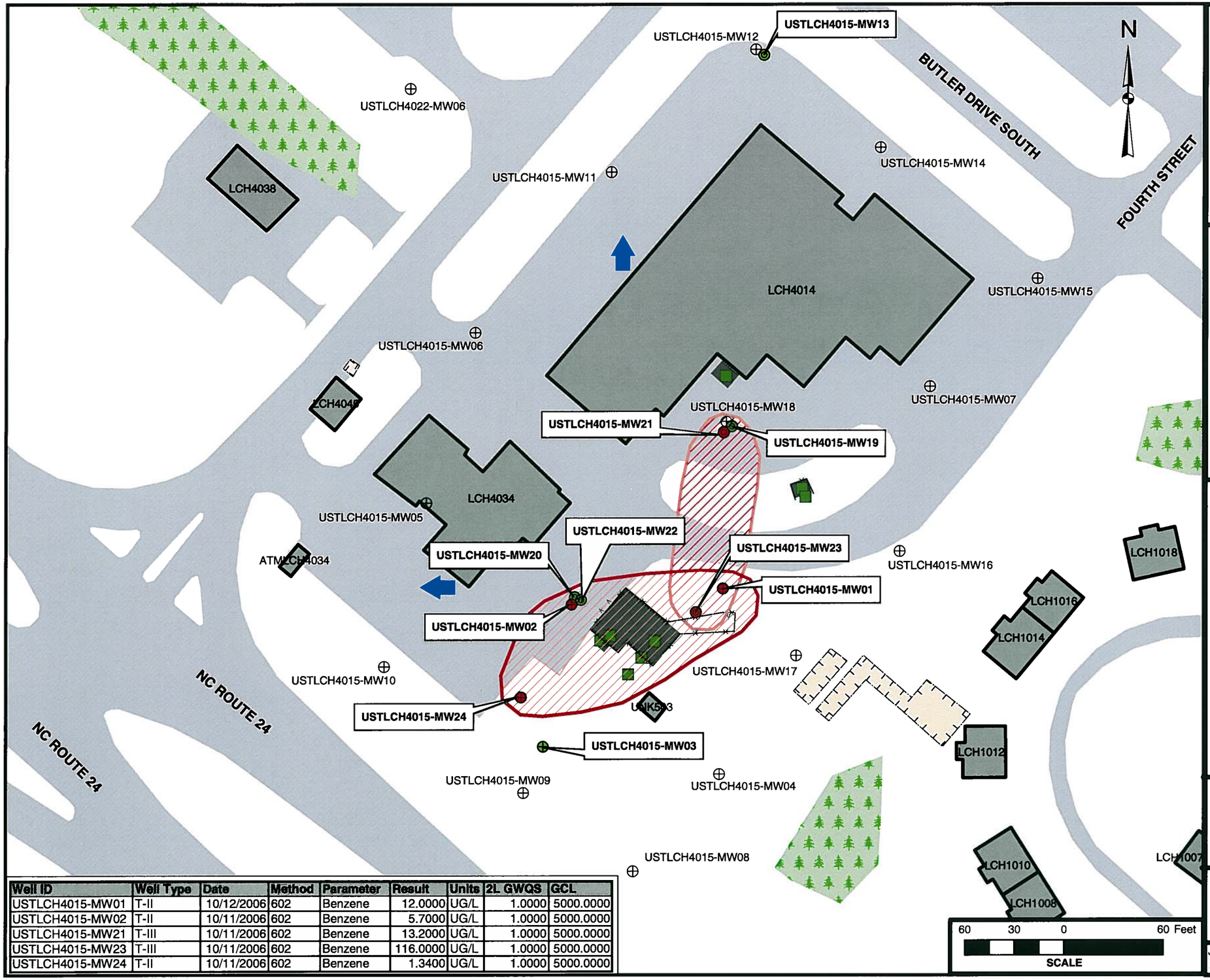
SITE LCH-4015
FREE PRODUCT PLUME MAP
THIRD QUARTER 2007

FIGURE **25.1C**

Job No.:	Date:	Scale:	Drawn By:	Checked By:
207-002	DEC 2007	AS SHOWN	SAC	MEM

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UST MANAGEMENT PROGRAM
CALENDAR YEAR 2007

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LEGEND

Monitoring Wells
- Type I
- Type II
- Type III
- Pumping Well
- Unknown Well Type
- Water Supply Wells
- Above Ground Storage Tank
- Underground Storage Tank
- Railroad Tracks

Walls and Fences
- FENCE
- GATE
- WALL

Analytical Results
- Free Product Detected
- 2L Non-Compliant
- 2L Compliant
- Shallow EPA 602 Plume (Less than 15' BLS)
- Intermediate EPA 602 Plume (Between 25' and 35' BLS)
- Buildings and Structures
- Demolished Structures
- Oil/Water Separators
- Slabs
- Roads
- Driveways
- Parking Lots
- Surface Water Bodies
- Creeks and Streams
- Historical Groundwater Flow Direction

Vegetation Cover
- Forestland
- Scrubland
- Wetland

Airfield Pavement
- HELIPAD
- RAMP
- RUNWAY
- SHLDR_OVERRUN
- TAXIWAY

NOTES

1. 2L Standard refers to North Carolina Groundwater Quality Standard 15A NCAC 2L.0202.
2. GCL refers to Gross Contaminant Level as defined in Table 9 of "Guidelines for Assessment and Corrective Action" North Carolina Underground Storage Tank Section, effective July 1, 2001.
3. A 2L Standard of "0.00" implies a standard has not yet been established. According to NCAC T15:02L, any compound found above laboratory detection limits is considered noncompliant unless otherwise specified by the NCDENR.
4. No monitoring wells screened at a depth of 35 feet or greater contained contaminant concentrations above the 2L GWQSs.

Well ID	Well Type	Date	Method	Parameter	Result	Units	2L GWQS	GCL
USTLCH4015-MW01	T-II	10/12/2006	602	Benzene	12.0000	UG/L	1.0000	5000.0000
USTLCH4015-MW02	T-II	10/11/2006	602	Benzene	5.7000	UG/L	1.0000	5000.0000
USTLCH4015-MW21	T-III	10/11/2006	602	Benzene	13.2000	UG/L	1.0000	5000.0000
USTLCH4015-MW23	T-III	10/11/2006	602	Benzene	116.0000	UG/L	1.0000	5000.0000
USTLCH4015-MW24	T-II	10/11/2006	602	Benzene	1.3400	UG/L	1.0000	5000.0000

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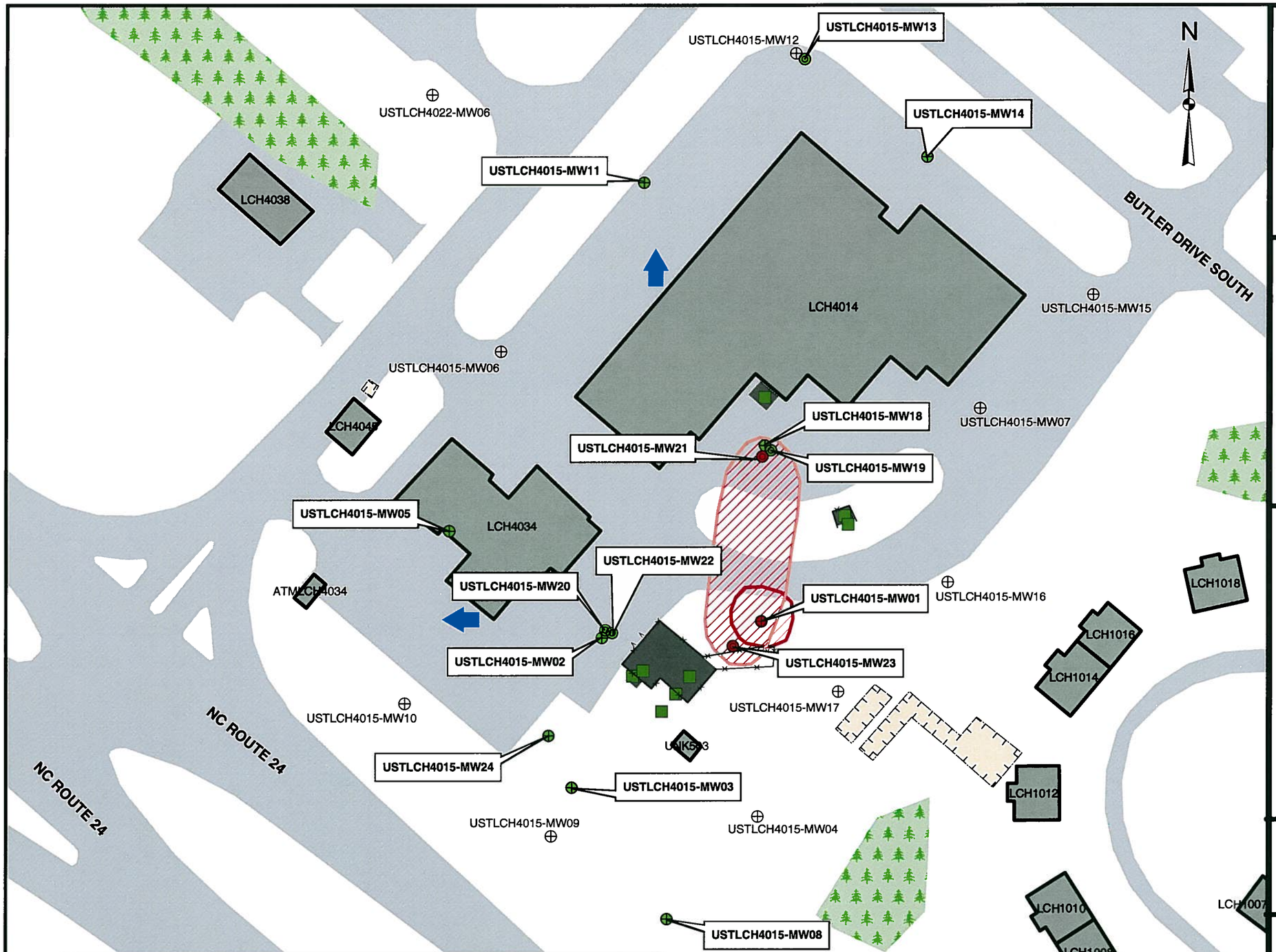
SITE LCH-4015
EPA METHOD 602 COLORIMETRY AND PLUME IN EXCESS OF 2L FOURTH QUARTER 2006

FIGURE **25.2A**

Job No.:	Date:	Scale:	Drawn By:	Checked By:
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UST MANAGEMENT PROGRAM
CALENDAR YEAR 2007

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LEGEND

Monitoring Wells
- Type I
- Type II
- Type III
- Pumping Well
- Unknown Well Type
- Water Supply Wells
- Above Ground Storage Tank
- Underground Storage Tank
- Railroad Tracks

Walls and Fences
- FENCE
- GATE
- WALL

Analytical Results
- Free Product Detected
- 2L Non-Compliant
- 2L Compliant
- Shallow EPA 602 Plume (Less than 15' BLS)
- Intermediate EPA 602 Plume (Between 25' and 35' BLS)
- Buildings and Structures
- Demolished Structures
- Oil/Water Separators
- Slabs
- Roads
- Driveways
- Parking Lots
- Surface Water Bodies
- Creeks and Streams
- Historical Groundwater Flow Direction

Vegetation Cover
- Forestland
- Scrubland
- Wetland

Airfield Pavement
- HELIPAD
- RAMP
- RUNWAY
- SHLDR_OVERRUN
- TAXIWAY

NOTES

1. 2L Standard refers to North Carolina Groundwater Quality Standard 15A NCAC 2L.0202.
2. GCL refers to Gross Contaminant Level as defined in Table 9 of "Guidelines for Assessment and Corrective Action" North Carolina Underground Storage Tank Section, effective July 1, 2001.
3. A 2L Standard of "0.00" implies a standard has not yet been established. According to NCAC T15:02L, any compound found above laboratory detection limits is considered noncompliant unless otherwise specified by the NCDENR.
4. No monitoring wells screened at a depth of 35 feet or greater contained contaminant concentrations above the 2L GWQSs.

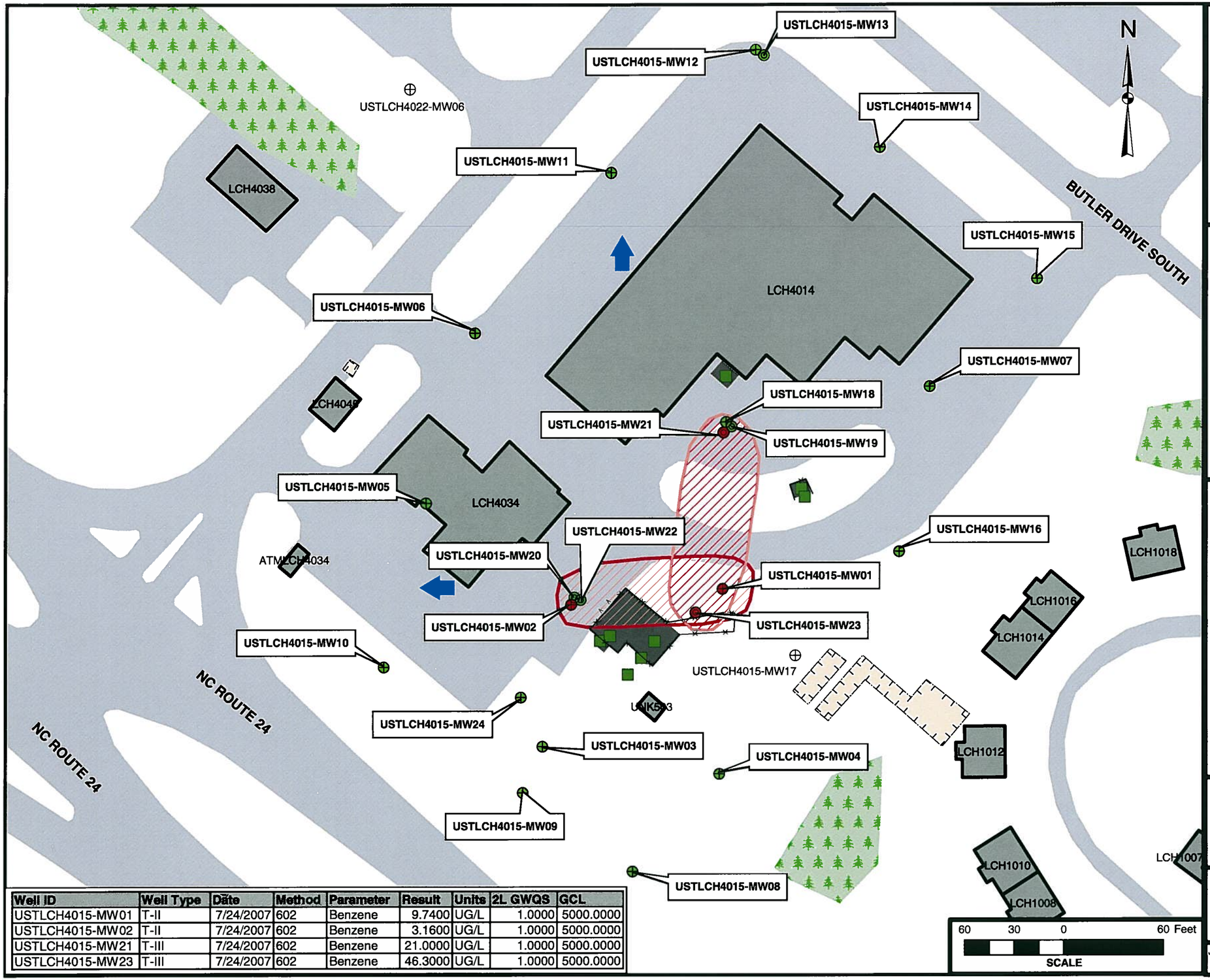
Well ID	Well Type	Date	Method	Parameter	Result	Units	2L GWQS	GCL
USTLCH4015-MW01	T-II	2/6/2007	602	Benzene	6.8000	UG/L	1.0000	5000.0000
USTLCH4015-MW21	T-III	2/6/2007	602	Benzene	21.1000	UG/L	1.0000	5000.0000
USTLCH4015-MW23	T-III	2/6/2007	602	Benzene	122.0000	UG/L	1.0000	5000.0000

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SITE LCH-4015
EPA METHOD 602 COLORIMETRY AND PLUME IN EXCESS OF 2L FIRST QUARTER 2007

FIGURE **25.2B**

Job No.:	Date:	Scale:	Drawn By:	Checked By:
207-002	DEC 2007	AS SHOWN	SAC	MEM



Well ID	Well Type	Date	Method	Parameter	Result	Units	2L GWQS	GCL
USTLCH4015-MW01	T-II	7/24/2007	602	Benzene	9.7400	UG/L	1.0000	5000.0000
USTLCH4015-MW02	T-II	7/24/2007	602	Benzene	3.1600	UG/L	1.0000	5000.0000
USTLCH4015-MW21	T-III	7/24/2007	602	Benzene	21.0000	UG/L	1.0000	5000.0000
USTLCH4015-MW23	T-III	7/24/2007	602	Benzene	46.3000	UG/L	1.0000	5000.0000

MCB CAMP LEJEUNE
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CALENDAR YEAR 2007

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LEGEND

Monitoring Wells
- Type I
- Type II
- Type III
- Pumping Well
- Unknown Well Type
- Water Supply Wells
- Above Ground Storage Tank
- Underground Storage Tank
- Railroad Tracks

Walls and Fences
- FENCE
- GATE
- WALL

Analytical Results
- Free Product Detected
- 2L Non-Compliant
- 2L Compliant
- Shallow EPA 602 Plume (Less than 15' BLS)
- Intermediate EPA 602 Plume (Between 25' and 35' BLS)
- Buildings and Structures
- Demolished Structures
- Oil/Water Separators
- Slabs
- Roads
- Driveways
- Parking Lots
- Surface Water Bodies
- Creeks and Streams
- Historical Groundwater Flow Direction

Vegetation Cover
- Forestland
- Scrubland
- Wetland

Airfield Pavement
- HELIPAD
- RAMP
- RUNWAY
- SHLDR_OVERRUN
- TAXIWAY

NOTES

1. 2L Standard refers to North Carolina Groundwater Quality Standard 15A NCAC 2L.0202.
2. GCL refers to Gross Contaminant Level as defined in Table 9 of "Guidelines for Assessment and Corrective Action" North Carolina Underground Storage Tank Section, effective July 1, 2001.
3. A 2L Standard of "0.00" implies a standard has not yet been established. According to NCAC T15:02L, any compound found above laboratory detection limits is considered noncompliant unless otherwise specified by the NCDENR.
4. No monitoring wells screened at a depth of 35 feet or greater contained contaminant concentrations above the 2L GWQSs.

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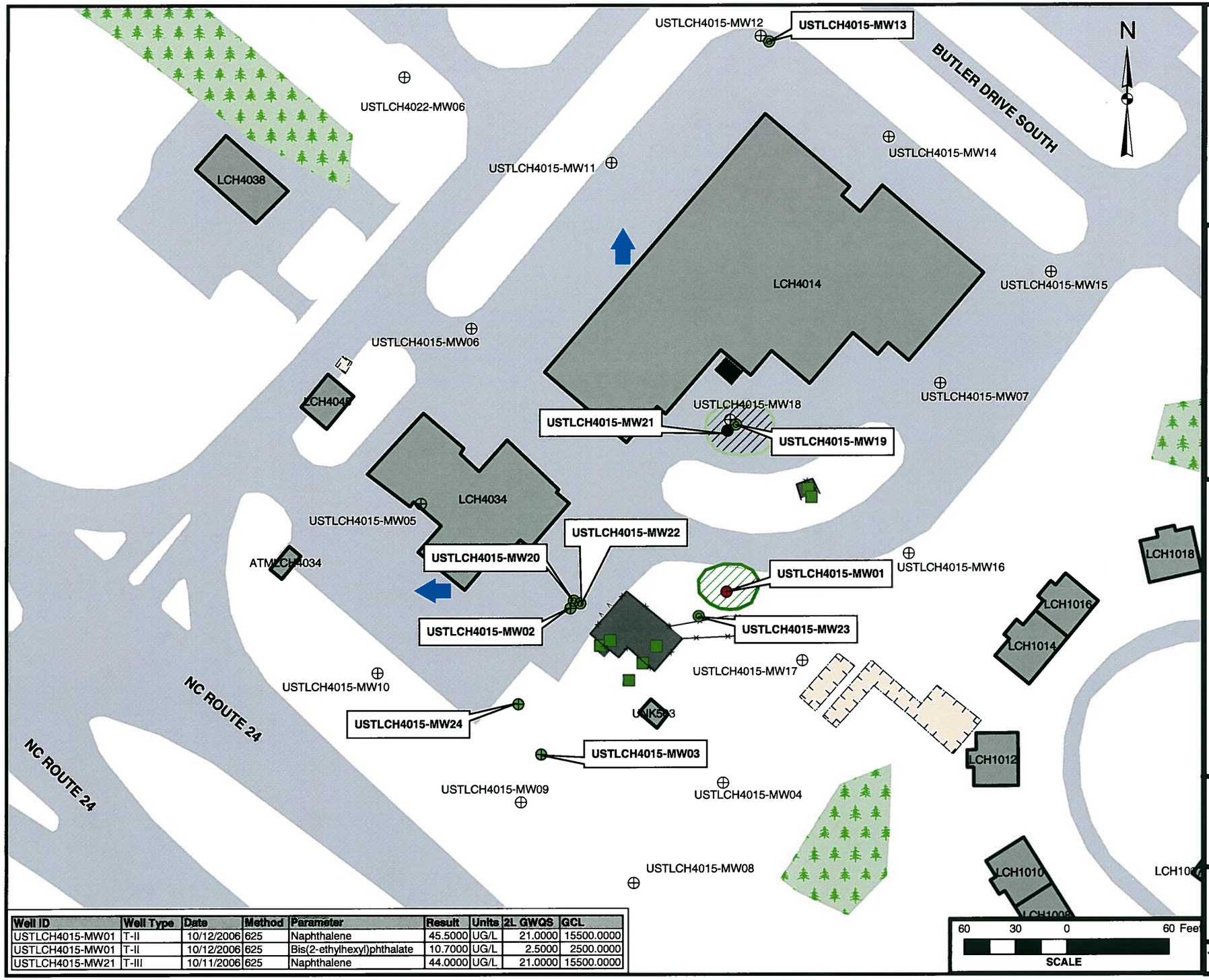
SITE LCH-4015
EPA METHOD 602 COLORIMETRY AND PLUME IN EXCESS OF 2L THIRD QUARTER 2007

FIGURE
25.2C

Job No.:	Date:	Scale:	Drawn By:	Checked By:
207-002	DEC 2007	AS SHOWN	SAC	MEM

MCB CAMP LEJEUNE
UST MANAGEMENT PROGRAM
CALENDAR YEAR 2007

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Well ID	Well Type	Date	Method	Parameter	Result	Units	2L GWQS	GCL
USTLCH4015-MW01	T-II	10/12/2006	625	Naphthalene	45.5000	UG/L	21.0000	15500.0000
USTLCH4015-MW01	T-II	10/12/2006	625	Bis(2-ethylhexyl)phthalate	10.7000	UG/L	2.5000	2500.0000
USTLCH4015-MW21	T-III	10/11/2006	625	Naphthalene	44.0000	UG/L	21.0000	15500.0000

LEGEND

Monitoring Wells
- Type I
- Type II
- Type III
- Pumping Well
- Unknown Well Type
- Water Supply Wells
- Above Ground Storage Tank
- Underground Storage Tank
- Railroad Tracks

Walls and Fences
- FENCE
- GATE
- WALL

Analytical Results
- Free Product Detected
- 2L Non-Compliant
- 2L Compliant
- Shallow EPA 625 Plume (Less than 15' BLS)
- Intermediate EPA 625 Plume (Between 25' and 35' BLS)
- Buildings and Structures
- Demolished Structures
- Oil/Water Separators
- Slabs
- Roads
- Driveways
- Parking Lots
- Surface Water Bodies
- Creeks and Streams
- Historical Groundwater Flow Direction

Vegetation Cover
- Forestland
- Scrubland
- Wetland

Airfield Pavement
- HELIPAD
- RAMP
- RUNWAY
- SHLDR_OVERRUN
- TAXIWAY

NOTES

1. 2L Standard refers to North Carolina Groundwater Quality Standard 15A NCAC 2L.0202.
2. GCL refers to Gross Contaminant Level as defined in Table 9 of "Guidelines for Assessment and Corrective Action" North Carolina Underground Storage Tank Section, effective July 1, 2001.
3. A 2L Standard of "0.00" implies a standard has not yet been established. According to NCAC T15:02L, any compound found above laboratory detection limits is considered noncompliant unless otherwise specified by the NCDENR.
4. No monitoring wells screened at a depth of 35 feet or greater contained contaminant concentrations above the 2L GWQSs.

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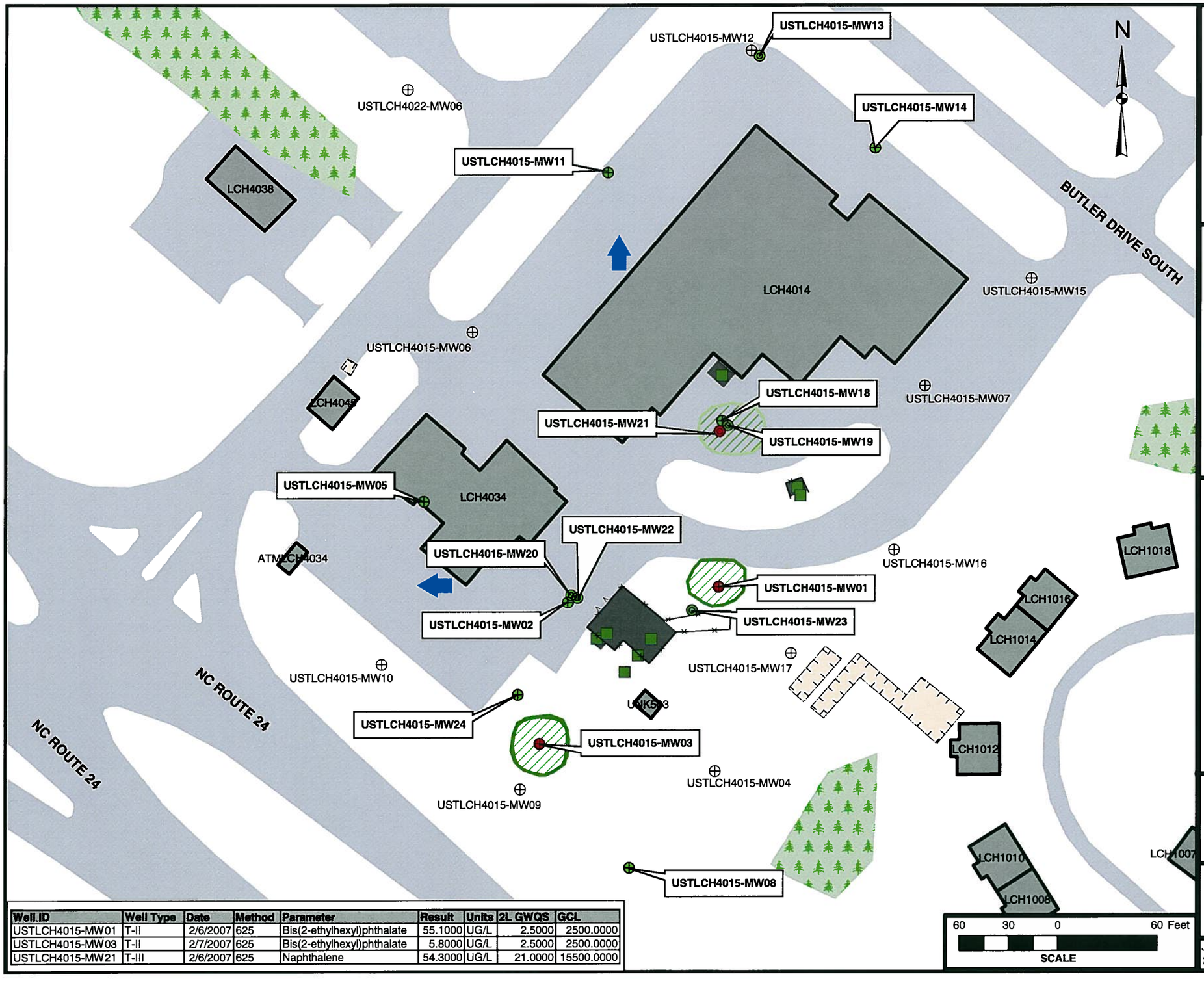
SITE LCH-4015
EPA METHOD 625 COLORIMETRY AND PLUME IN EXCESS OF 2L FOURTH QUARTER 2006

FIGURE
25.3A

Job No.:	Date:	Scale:	Drawn By:	Checked By:
207-002	DEC 2007	AS SHOWN	SAC	MEM

MCB CAMP LEJEUNE
UST MANAGEMENT PROGRAM
CALENDAR YEAR 2007

NAVFAC
Naval Facilities Engineering Command



LEGEND

Monitoring Wells
- Type I
- Type II
- Type III
- Pumping Well
- Unknown Well Type
- Water Supply Wells
- Above Ground Storage Tank
- Underground Storage Tank
- Railroad Tracks

Walls and Fences
- FENCE
- GATE
- WALL

Analytical Results
- Free Product Detected
- 2L Non-Compliant
- 2L Compliant
- Shallow EPA 625 Plume (Less than 15' BLS)
- Intermediate EPA 625 Plume (Between 25' and 35' BLS)

Buildings and Structures
- Demolished Structures
- Oil/Water Separators
- Slabs
- Roads
- Driveways
- Parking Lots
- Surface Water Bodies
- Creeks and Streams
- Historical Groundwater Flow Direction

Vegetation Cover
- Forestland
- Scrubland
- Wetland

Airfield Pavement
- HELIPAD
- RAMP
- RUNWAY
- SHLDR_OVERRUN
- TAXIWAY

NOTES

1. 2L Standard refers to North Carolina Groundwater Quality Standard 15A NCAC 2L.0202.
2. GCL refers to Gross Contaminant Level as defined in Table 9 of "Guidelines for Assessment and Corrective Action" North Carolina Underground Storage Tank Section, effective July 1, 2001.
3. A 2L Standard of "0.00" implies a standard has not yet been established. According to NCAC T15:02L, any compound found above laboratory detection limits is considered noncompliant unless otherwise specified by the NCDENR.
4. No monitoring wells screened at a depth of 35 feet or greater contained contaminant concentrations above the 2L GWQSs.

Well ID	Well Type	Date	Method	Parameter	Result	Units	2L GWQS	GCL
USTLCH4015-MW01	T-II	2/6/2007	625	Bis(2-ethylhexyl)phthalate	55.1000	UG/L	2.5000	2500.0000
USTLCH4015-MW03	T-II	2/7/2007	625	Bis(2-ethylhexyl)phthalate	5.8000	UG/L	2.5000	2500.0000
USTLCH4015-MW21	T-III	2/6/2007	625	Naphthalene	54.3000	UG/L	21.0000	15500.0000

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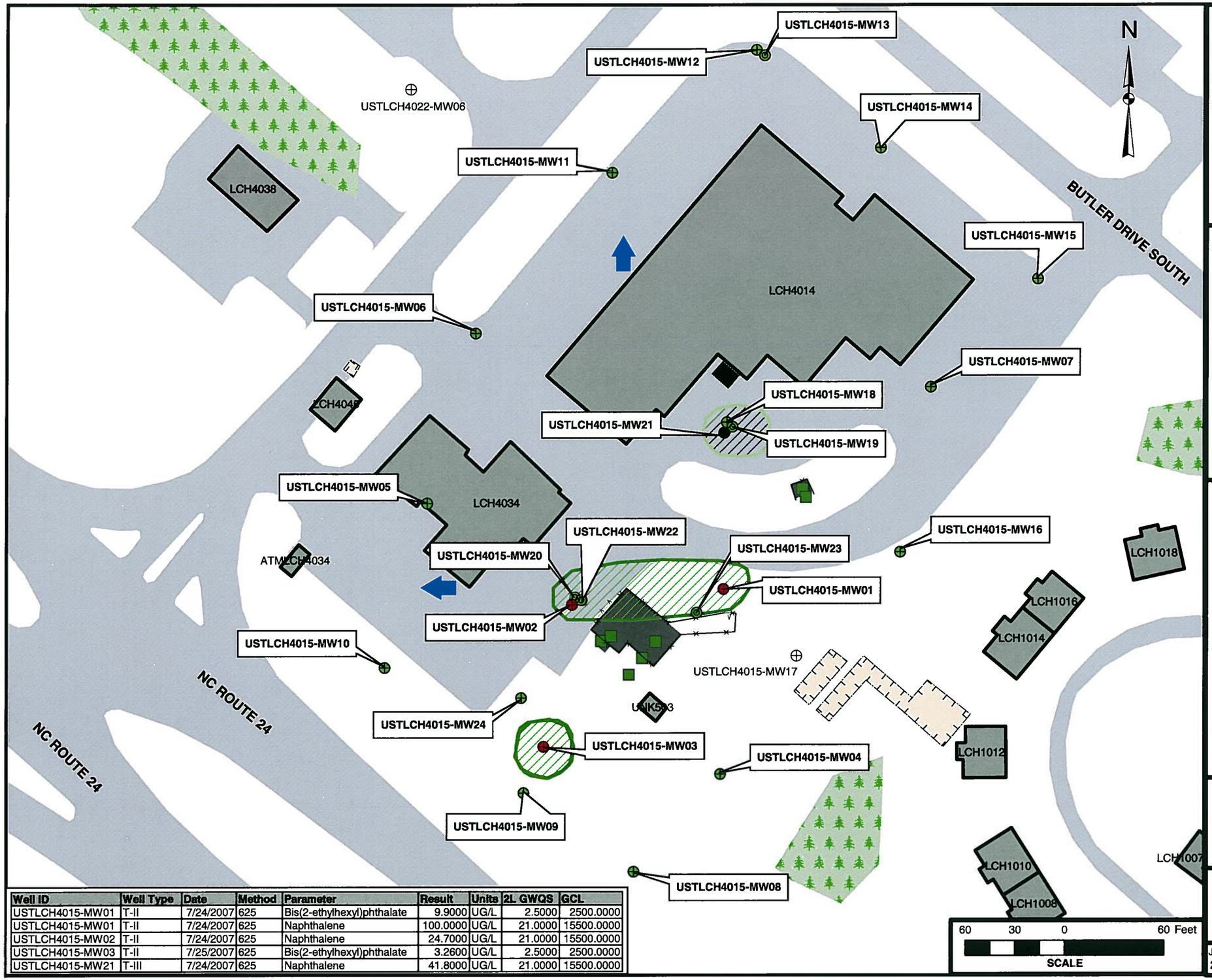
SITE LCH-4015
EPA METHOD 625 COLORIMETRY AND PLUME IN EXCESS OF 2L
FIRST QUARTER 2007

FIGURE
25.3B

Job No.:	Date:	Scale:	Drawn By:	Checked By:
207-002	DEC 2007	AS SHOWN	SAC	MEM

MCB CAMP LEJEUNE
UST MANAGEMENT PROGRAM
CALENDAR YEAR 2007

NAVFAC
Naval Facilities Engineering Command



LEGEND

Monitoring Wells
- Type I
- Type II
- Type III
- Pumping Well
- Unknown Well Type
- Water Supply Wells
- Above Ground Storage Tank
- Underground Storage Tank
- Railroad Tracks

Walls and Fences
- FENCE
- GATE
- WALL

Analytical Results
- Free Product Detected
- 2L Non-Compliant
- 2L Compliant
- Shallow EPA 625 Plume (Less than 15' BLS)
- Intermediate EPA 625 Plume (Between 25' and 35' BLS)

Buildings and Structures
- Demolished Structures
- Oil/Water Separators
- Slabs
- Roads
- Driveways
- Parking Lots
- Surface Water Bodies
- Creeks and Streams
- Historical Groundwater Flow Direction

Vegetation Cover
- Forestland
- Scrubland
- Wetland

Airfield Pavement
- HELIPAD
- RAMP
- RUNWAY
- SHLDR_OVERRUN
- TAXIWAY

NOTES

1. 2L Standard refers to North Carolina Groundwater Quality Standard 15A NCAC 2L.0202.
2. GCL refers to Gross Contaminant Level as defined in Table 9 of "Guidelines for Assessment and Corrective Action" North Carolina Underground Storage Tank Section, effective July 1, 2001.
3. A 2L Standard of "0.00" implies a standard has not yet been established. According to NCAC T15:02L, any compound found above laboratory detection limits is considered noncompliant unless otherwise specified by the NCDENR.
4. No monitoring wells screened at a depth of 35 feet or greater contained contaminant concentrations above the 2L GWQSs.

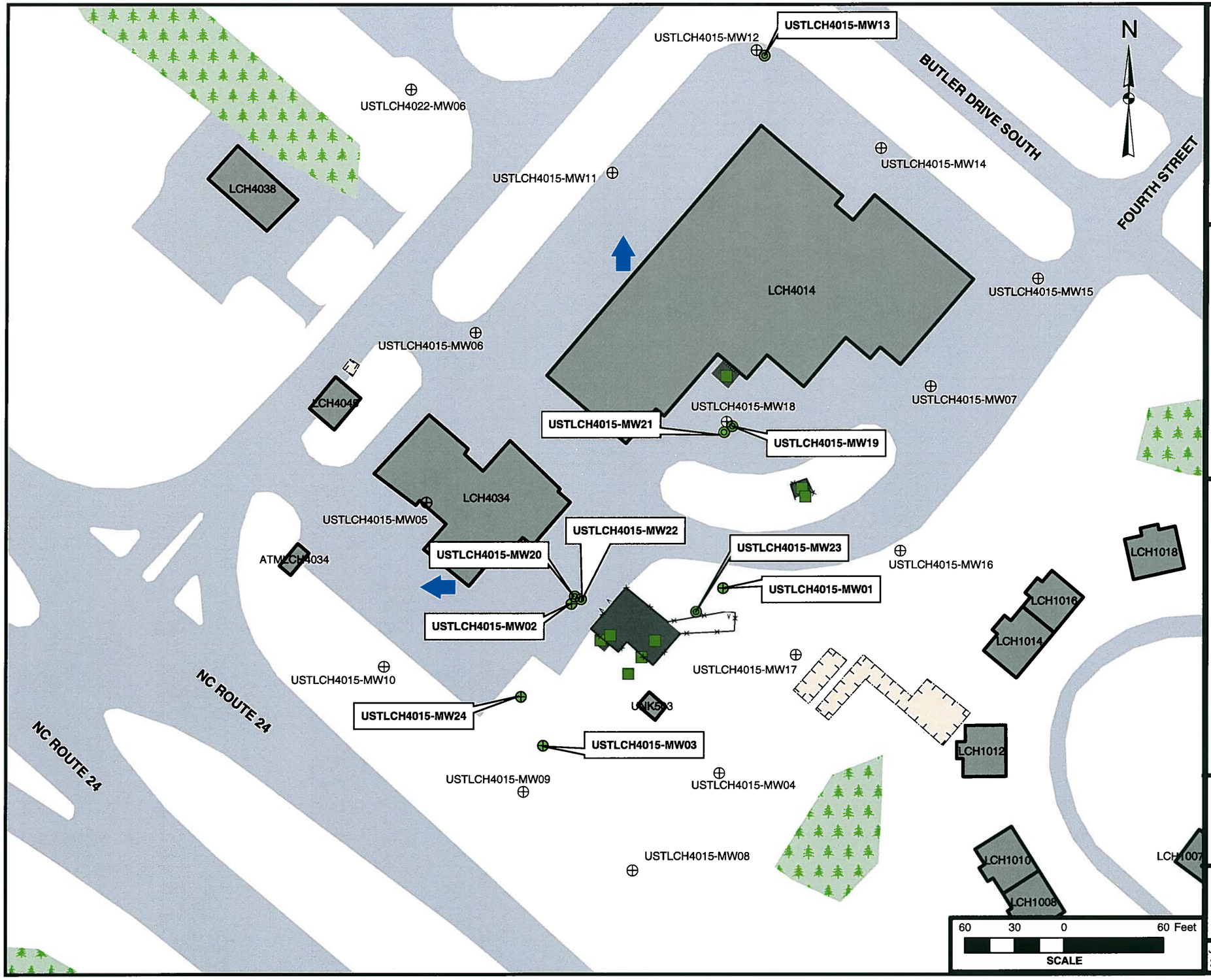
Well ID	Well Type	Date	Method	Parameter	Result	Units	2L GWQS	GCL
USTLCH4015-MW01	T-II	7/24/2007	625	Bis(2-ethylhexyl)phthalate	9.9000	UG/L	2.5000	2500.0000
USTLCH4015-MW01	T-II	7/24/2007	625	Naphthalene	100.0000	UG/L	21.0000	15500.0000
USTLCH4015-MW02	T-II	7/24/2007	625	Naphthalene	24.7000	UG/L	21.0000	15500.0000
USTLCH4015-MW03	T-II	7/25/2007	625	Bis(2-ethylhexyl)phthalate	3.2600	UG/L	2.5000	2500.0000
USTLCH4015-MW21	T-III	7/24/2007	625	Naphthalene	41.8000	UG/L	21.0000	15500.0000

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SITE LCH-4015
EPA METHOD 625 COLORIMETRY AND PLUME IN EXCESS OF 2L THIRD QUARTER 2007

FIGURE **25.3C**

Job No.:	Date:	Scale:	Drawn By:	Checked By:
207-002	DEC 2007	AS SHOWN	SAC	MEM



MCB CAMP LEJEUNE
UST MANAGEMENT PROGRAM
CALENDAR YEAR 2007

NAVFAC
Naval Facilities Engineering Command

LEGEND

Monitoring Wells
- Type I
- Type II
- Type III
- Pumping Well
- Unknown Well Type
- Water Supply Wells
- Above Ground Storage Tank
- Underground Storage Tank
- Railroad Tracks

Walls and Fences
- FENCE
- GATE
- WALL

Analytical Results
- Free Product Detected
- 2L Non-Compliant
- 2L Compliant
- EPA 6020 Plume

- Buildings and Structures
- Demolished Structures
- Oil/Water Separators
- Slabs
- Roads
- Driveways
- Parking Lots
- Surface Water Bodies
- Creeks and Streams
- Historical Groundwater Flow Direction

Vegetation Cover
- Forestland
- Scrubland
- Wetland

Airfield Pavement
- HELIPAD
- RAMP
- RUNWAY
- SHLDR_OVERRUN
- TAXIWAY

NOTES

1. No EPA Method 6020 compounds were detected above the 2L GWQS for any of the wells sampled during this monitoring event.

CATLIN
Engineers and Scientists

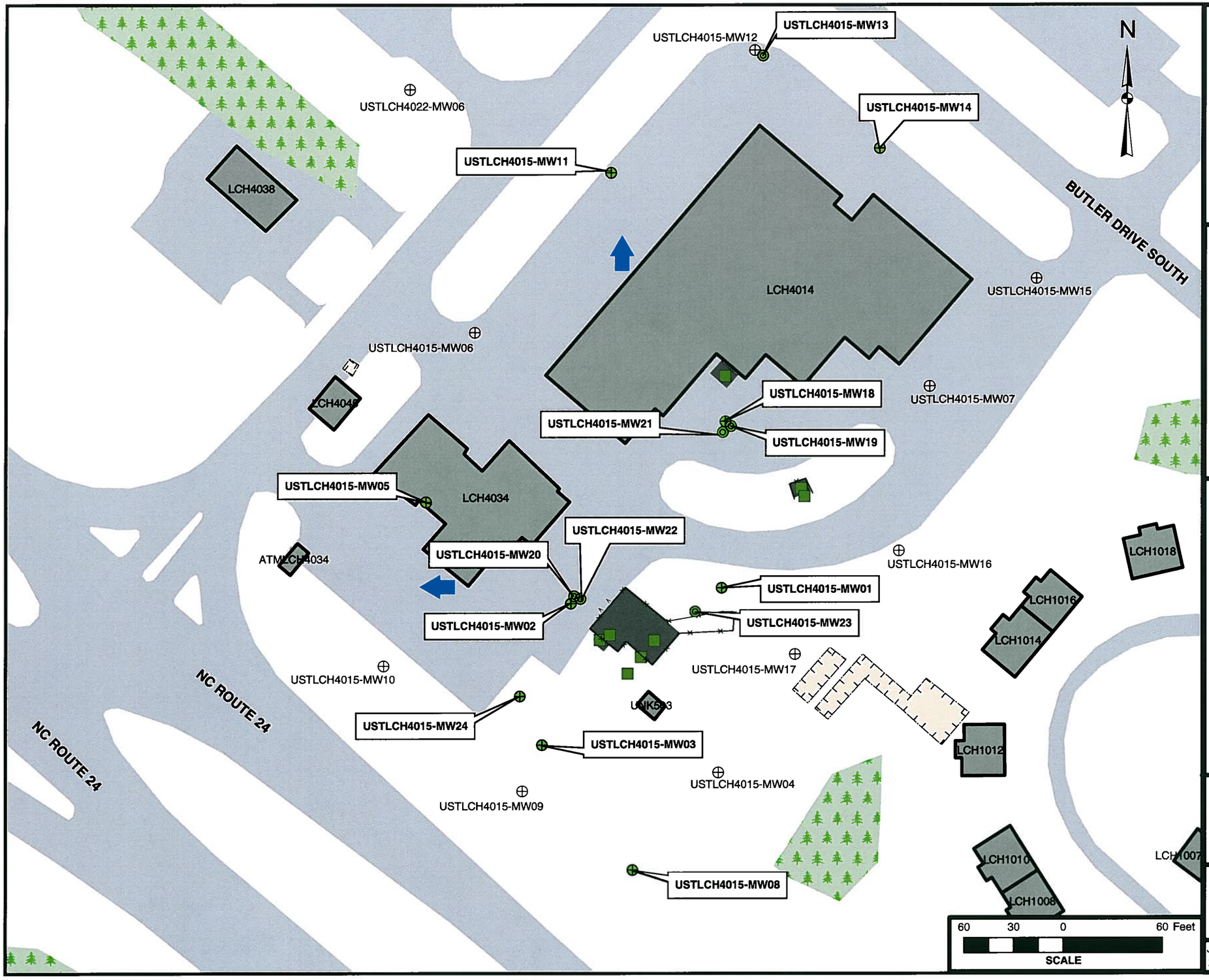
SITE LCH-4015
EPA METHOD 6020 COLORIMETRY AND PLUME IN EXCESS OF 2L
FOURTH QUARTER 2006

FIGURE **25.4A**

Job No.:	Date:	Scale:	Drawn By:	Checked By:
207-002	DEC 2007	AS SHOWN	SAC	MEM

MCB CAMP LEJEUNE
UST MANAGEMENT PROGRAM
CALENDAR YEAR 2007

NAVFAC
Naval Facilities Engineering Command



LEGEND

Monitoring Wells
- Type I
- Type II
- Type III
- Pumping Well
- Unknown Well Type
- Water Supply Wells
- Above Ground Storage Tank
- Underground Storage Tank
- Railroad Tracks

Walls and Fences
- FENCE
- GATE
- WALL

Analytical Results
- Free Product Detected
- 2L Non-Compliant
- 2L Compliant
- EPA 6020 Plume

Buildings and Structures
- Demolished Structures
- Oil/Water Separators
- Slabs
- Roads
- Driveways
- Parking Lots
- Surface Water Bodies
- Creeks and Streams
- Historical Groundwater Flow Direction

Vegetation Cover
- Forestland
- Scrubland
- Wetland

Airfield Pavement
- HELIPAD
- RAMP
- RUNWAY
- SHLDR_OVERRUN
- TAXIWAY

NOTES

1. No EPA Method 6020 compounds were detected above the 2L GWQS for any of the wells sampled during this monitoring event.

CATLIN
Engineers and Scientists

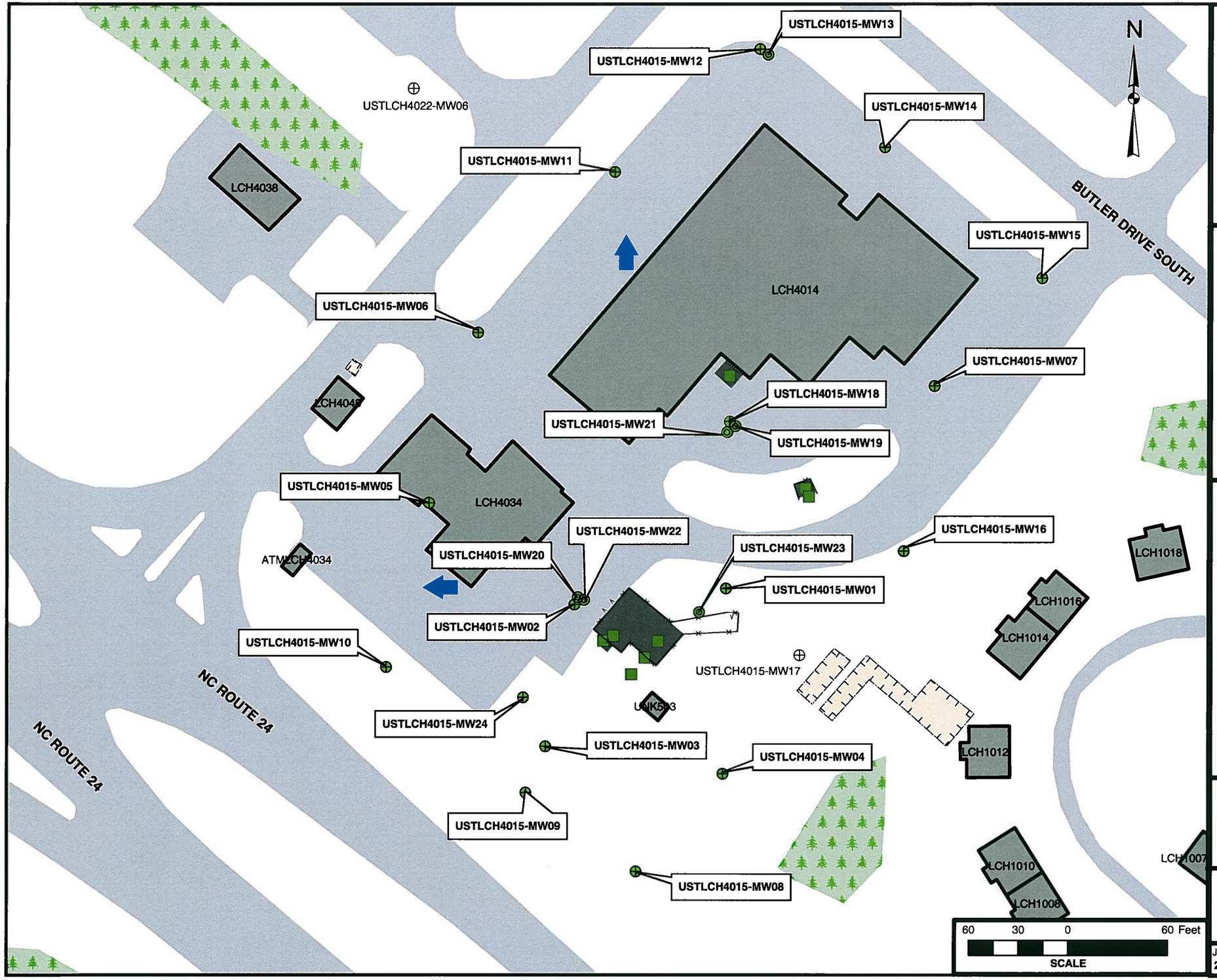
SITE LCH-4015
EPA METHOD 6020 COLORIMETRY AND PLUME IN EXCESS OF 2L
FIRST QUARTER 2007

FIGURE **25.4B**

Job No.:	Date:	Scale:	Drawn By:	Checked By:
207-002	DEC 2007	AS SHOWN	SAC	MEM

MCB CAMP LEJEUNE
UST MANAGEMENT PROGRAM
CALENDAR YEAR 2007

NAVFAC
Naval Facilities Engineering Command



LEGEND

Monitoring Wells
- Type I
- Type II
- Type III
- Pumping Well
- Unknown Well Type
- Water Supply Wells
- Above Ground Storage Tank
- Underground Storage Tank
- Railroad Tracks

Walls and Fences
- FENCE
- GATE
- WALL

Analytical Results
- Free Product Detected
- 2L Non-Compliant
- 2L Compliant
- EPA 6020 Plume
- Buildings and Structures
- Demolished Structures
- Oil/Water Separators
- Slabs
- Roads
- Driveways
- Parking Lots
- Surface Water Bodies
- Creeks and Streams
- Historical Groundwater Flow Direction

Vegetation Cover
- Forestland
- Scrubland
- Wetland

Airfield Pavement
- HELIPAD
- RAMP
- RUNWAY
- SHLDR_OVERRUN
- TAXIWAY

NOTES

1. No EPA Method 6020 compounds were detected above the 2L GWQS for any of the wells sampled during this monitoring event.

CATLIN
Engineers and Scientists

SITE LCH-4015
EPA METHOD 6020 COLORIMETRY AND PLUME IN EXCESS OF 2L
THIRD QUARTER 2007

FIGURE **25.4C**

Job No.:	Date:	Scale:	Drawn By:	Checked By:
207-002	DEC 2007	AS SHOWN	SAC	MEM

SECTION 26.0

OF THE

ANNUAL MANAGEMENT REPORT
MCB CAMP LEJEUNE UST MANAGEMENT PROGRAM

MONITORING EVENT:

YEAR 2007
(JANUARY – DECEMBER 2007)

SITE-SPECIFIC MONITORING REPORT
FOR

SITE M-232-236

NCDENR INCIDENT NO. 9593

26.0 EXECUTIVE SUMMARY
SITE M-232-236

26.1 Site Information

26.1.1 Site Location: MCB Camp Lejeune (Camp Johnson Area)
26.1.2 Incident Number(s): 9593
26.1.3 UTM Coordinates (WGS84) (Meters): 278925.12 Easting, 3844763.57 Northing
26.1.4 Risk Classification: Intermediate
26.1.5 Land Use Classification: Residential
26.1.6 Source Type(s): Heating oil UST

26.2 Monitoring Event Information

26.2.1 Sampling Performed By: Sovereign
26.2.2 Date(s) of This Monitoring Event: August 2006, January 2007, June 2007 and December 2007.
26.2.3 Date(s) of Previous Monitoring Event: December 2005
26.2.4 Reason(s) for This Monitoring Event: Track migration and attenuation of dissolved phase plume.
26.2.5 Site Monitoring Status at Time of This Event: Semi annual groundwater sampling of approximately 10 wells per EPA Methods 602, 625 and MADEP VPH/EPH.

26.3 Groundwater Hydraulics

26.3.1 Hydraulic Conductivity: Shallow: 1.47 feet/day - Intermediate: 2.67 feet/day
26.3.2 Effective Porosity: Shallow: 0.40 – Intermediate: 0.35
26.3.3 Hydraulic Gradient: 0.0005 to 0.0061feet/feet
26.3.4 Average Linear Groundwater Flow Velocity: Shallow: 0.7 to 5 feet/year – Intermediate: 6.2 to 17 feet/year
26.3.5 Groundwater Flow Direction: Shallow: Towards the southwest
26.3.6 Range of Measured Water Table Elevations: See Table 26.1
26.3.7 Significant Changes from Previously Reported Data: None

26.4 Free Product Plume

26.4.1 Free Product Present?: Yes.
26.4.2 Free Product Thickness Measured: See Table 26.1
26.4.3 Plume Size and Location: See Figures 26.1A through 26.1D
26.4.4 Free Product/Contaminants Removed from Site This Period: Unknown.
26.4.5 Significant Changes from Previously Reported Data: Free product has not reappeared after the excavation which was completed in June 2007.

26.5 Dissolved-Phase Plume

26.5.1 Plume Concentrations: See Tables 26.2 through 26.4
26.5.2 Plume Size and Location: See Figures 26.2A through 26.4D
26.5.3 Significant Changes from Previously Reported Data: The current groundwater sample analytical results as compared to the December 2005 analytical results are discussed as follows:

EPA Method 602

There were no significant changes from the previously reported data as no EPA Method 602 compounds were detected above the 2L GWQS. EPA Method 602 plume boundaries were adjusted based on the presence of free product. See Figures 26.2A through 26.2D.

EPA Method 625

There were no significant changes from the previously reported data as no EPA Method 625 compounds were detected above the 2L GWQS. EPA Method 625 plume boundaries were adjusted based on the presence of free product. See Figures 26.3A through 26.3D.

MADEP VPH/EPH

The C_9-C_{22} Aromatics fraction was detected in the USTM232-236-MW03 groundwater sample at concentrations above the 2L GWQS during the current monitoring period in June 2007. This monitoring well was not sampled during the previous monitoring period (December 2005). Also, during the fourth quarter 2007 sampling event (December) no MADEP fractions were detected in excess of the 2L GWQSs. This is significant because MADEP fractions had consistently been detected above the 2L GWQSs up to this sampling event in monitoring wells USTM232-236-MW18, USTM232-236-MW21 and USTM232-236-MW22. See Figures 26.4A through 26.4D.

26.6 Potential Receptors

26.6.1 Contaminated Water Supply Well(s)?: No
26.6.2 Potable Water Supply Well Within 1,000 Feet of Source Area?: No
26.6.3 Any Water Supply Well Within 250 Feet of Source Area?: No
26.6.4 Surface Water Body Within 500 Feet?: No
26.6.5 Past Evidence of Vapors?: No
26.6.6 Significant Changes from Previously Reported Data?: None

26.7 Remediation

26.7.1 Status: Complete
26.7.2 Type: Soil excavation in April/May 2007
26.7.3 Progress: Complete
26.7.4 Construction Contractor: Sovereign
26.7.5 Operating Contractor: None

26.8 Observations and Comments

CATLIN recommends continuing the current monitoring schedule which is quarterly gauging of all on-site monitoring wells and semi-annual sampling of approximately 10 on-site monitoring wells per EPA Methods 602, 625 and MADEP VPH/EPH. If the analytical results from the proposed semi-annual sampling event are all compliant (below the 2L GWQS), MCB Camp Lejeune should consider requesting NFA at the subject site. See the figure in Appendix A for the proposed monitoring schedule.

TABLE 26.1
SITE M-232-236
FIELD MEASUREMENTS - JULY 2005 TO DECEMBER 2007

Well No.	Type	TOC	Date	DTW	Product Thickness	Corrected GWT Elevation
USTM232-236-MW01	T-II	13.98	12/12/2005	9.41	0.00	4.57
USTM232-236-MW01	T-II	13.98	8/15/2006	9.92	0.00	4.06
USTM232-236-MW01	T-II	13.98	11/2/2006	9.88	0.00	4.10
USTM232-236-MW01	T-II	13.98	1/23/2007	7.12	0.00	6.86
USTM232-236-MW01	T-II	13.98	4/6/2007	10.26	0.00	3.72
USTM232-236-MW01	T-II	13.98	6/21/2007	11.59	0.00	2.39
USTM232-236-MW01	T-II	13.98	12/18/2007	12.35	0.00	1.63
USTM232-236-MW02	T-I	13.65	12/12/2005	10.92	0.00	2.73
USTM232-236-MW02	T-I	13.65	8/15/2006	11.07	0.00	2.58
USTM232-236-MW02	T-I	13.65	11/2/2006	11.10	0.00	2.55
USTM232-236-MW02	T-I	13.65	1/23/2007	9.88	0.00	3.77
USTM232-236-MW02	T-I	13.65	4/6/2007	11.18	0.00	2.47
USTM232-236-MW02	T-I	13.65	6/21/2007	11.54	0.00	2.11
USTM232-236-MW02	T-I	13.65	12/18/2007	12.56	0.00	1.09
USTM232-236-MW03	T-I	16.26	12/12/2005	12.73	0.00	3.53
USTM232-236-MW03	T-I	16.26	8/15/2006	13.61	0.00	2.65
USTM232-236-MW03	T-I	16.26	11/2/2006	13.65	0.00	2.61
USTM232-236-MW03	T-I	16.26	1/23/2007	12.85	0.00	3.41
USTM232-236-MW03	T-I	16.26	4/6/2007	13.72	0.00	2.54
USTM232-236-MW03	T-I	16.26	6/21/2007	13.97	0.00	2.29
USTM232-236-MW03	T-I	16.26	12/18/2007	15.11	0.00	1.15
USTM232-236-MW04	T-II	16.10	12/12/2005	13.45	0.00	2.65
USTM232-236-MW04	T-II	16.10	8/15/2006	13.20	0.00	2.90
USTM232-236-MW04	T-II	16.10	11/2/2006	13.20	0.00	2.90
USTM232-236-MW04	T-II	16.10	1/23/2007	10.87	0.00	5.23

Notes:
1. T-II = Type II monitoring well
   T-III = Type III monitoring well
   RW = Recovery well
2. TOC = Top of casing elevation in feet relative to Mean Sea Level.
3. DTW = Depth to water (in feet) from top of well casing.
4. Product thickness is measured in feet.
5. GWT = Groundwater Table
6. A zero ("0.00") in the product thickness column indicates no measureable thickness.
7. GWT Elevation corrected for measurable free product, if present.

Well No.	Type	TOC	Date	DTW	Product Thickness	Corrected GWT Elevation
USTM232-236-MW04	T-II	16.10	4/6/2007	13.47	0.00	2.63
USTM232-236-MW04	T-II	16.10	6/21/2007	13.80	0.00	2.30
USTM232-236-MW04	T-II	16.10	12/18/2007	14.95	0.00	1.15
USTM232-236-MW05	T-I	12.92	12/12/2005	7.67	0.00	5.25
USTM232-236-MW05	T-I	12.92	8/15/2006	10.20	0.00	2.72
USTM232-236-MW05	T-I	12.92	11/2/2006	10.33	0.00	2.59
USTM232-236-MW05	T-I	12.92	1/23/2007	9.13	0.00	3.79
USTM232-236-MW05	T-I	12.92	4/6/2007	10.40	0.00	2.52
USTM232-236-MW05	T-I	12.92	6/21/2007	10.69	0.00	2.23
USTM232-236-MW05	T-I	12.92	12/18/2007	11.66	0.00	1.26
USTM232-236-MW06	T-II	12.76	12/12/2005	10.15	0.00	2.61
USTM232-236-MW06	T-II	12.76	8/15/2006	8.80	0.00	3.96
USTM232-236-MW06	T-II	12.76	11/2/2006	8.72	0.00	4.04
USTM232-236-MW06	T-II	12.76	1/23/2007	5.56	0.00	7.20
USTM232-236-MW06	T-II	12.76	4/6/2007	8.50	0.00	4.26
USTM232-236-MW06	T-II	12.76	6/21/2007	11.10	0.00	1.66
USTM232-236-MW06	T-II	12.76	12/18/2007	10.82	0.00	1.94
USTM232-236-MW07	T-II	12.58	12/12/2005	6.94	0.00	5.64
USTM232-236-MW07	T-II	12.58	8/15/2006	8.25	0.00	4.33
USTM232-236-MW07	T-II	12.58	11/2/2006	8.41	0.00	4.17
USTM232-236-MW07	T-II	12.58	1/23/2007	4.85	0.00	7.73
USTM232-236-MW07	T-II	12.58	4/6/2007	7.71	0.00	4.87
USTM232-236-MW07	T-II	12.58	6/21/2007	10.65	0.00	1.93
USTM232-236-MW07	T-II	12.58	12/18/2007	10.07	0.00	2.51
USTM232-236-MW08	T-I	12.59	12/12/2005	10.24	0.00	2.35
USTM232-236-MW08	T-I	12.59	8/15/2006	10.39	0.00	2.20
USTM232-236-MW08	T-I	12.59	11/2/2006	10.36	0.00	2.23
USTM232-236-MW08	T-I	12.59	1/23/2007	9.15	0.00	3.44
USTM232-236-MW08	T-I	12.59	4/6/2007	10.43	0.00	2.16
USTM232-236-MW08	T-I	12.59	6/21/2007	10.68	0.00	1.91

Notes:
1. T-II = Type II monitoring well
   T-III = Type III monitoring well
   RW = Recovery well
2. TOC = Top of casing elevation in feet relative to Mean Sea Level.
3. DTW = Depth to water (in feet) from top of well casing.
4. Product thickness is measured in feet.
5. GWT = Groundwater Table
6. A zero ("0.00") in the product thickness column indicates no measureable thickness.
7. GWT Elevation corrected for measurable free product, if present.

Well No.	Type	TOC	Date	DTW	Product Thickness	Corrected GWT Elevation
USTM232-236-MW08	T-I	12.59	12/18/2007	11.67	0.00	0.92
USTM232-236-MW09	T-I	14.24	12/12/2005	11.89	0.00	2.35
USTM232-236-MW09	T-I	14.24	8/15/2006	12.02	0.00	2.22
USTM232-236-MW09	T-I	14.24	11/2/2006	12.05	0.00	2.19
USTM232-236-MW09	T-I	14.24	1/23/2007	10.93	0.00	3.31
USTM232-236-MW09	T-I	14.24	4/6/2007	12.13	0.00	2.11
USTM232-236-MW09	T-I	14.24	6/21/2007	12.29	0.00	1.95
USTM232-236-MW09	T-I	14.24	12/18/2007	13.26	0.00	0.98
USTM232-236-MW10	T-II	13.70	12/12/2005	11.07	0.00	2.63
USTM232-236-MW10	T-II	13.70	8/15/2006	11.30	0.00	2.40
USTM232-236-MW10	T-II	13.70	11/2/2006	11.44	0.00	2.26
USTM232-236-MW10	T-II	13.70	1/23/2007	9.65	0.00	4.05
USTM232-236-MW10	T-II	13.70	4/6/2007	11.41	0.00	2.29
USTM232-236-MW10	T-II	13.70	6/21/2007	11.54	0.00	2.16
USTM232-236-MW10	T-II	13.70	12/18/2007	12.79	0.00	0.91
USTM232-236-MW11	T-II	10.64	12/12/2005	4.73	0.00	5.91
USTM232-236-MW11	T-II	10.64	8/15/2006	8.30	0.00	2.34
USTM232-236-MW11	T-II	10.64	11/2/2006	6.40	0.00	4.24
USTM232-236-MW11	T-II	10.64	1/23/2007	3.15	0.00	7.49
USTM232-236-MW11	T-II	10.64	4/6/2007	8.78	0.00	1.86
USTM232-236-MW11	T-II	10.64	6/21/2007	9.58	0.00	1.06
USTM232-236-MW11	T-II	10.64	12/18/2007	8.31	0.00	2.33
USTM232-236-MW12	T-I	10.66	12/12/2005	8.74	0.00	1.92
USTM232-236-MW12	T-I	10.66	8/15/2006	8.76	0.00	1.90
USTM232-236-MW12	T-I	10.66	11/2/2006	8.72	0.00	1.94
USTM232-236-MW12	T-I	10.66	1/23/2007	7.95	0.00	2.71
USTM232-236-MW12	T-I	10.66	4/6/2007	13.24	0.00	-2.58
USTM232-236-MW12	T-I	10.66	6/21/2007	8.96	0.00	1.70
USTM232-236-MW12	T-I	10.66	12/18/2007	9.90	0.00	0.76
USTM232-236-MW13	T-II	15.75	12/12/2005	12.21	0.00	3.54

Notes:
1. T-II = Type II monitoring well
   T-III = Type III monitoring well
   RW = Recovery well
2. TOC = Top of casing elevation in feet relative to Mean Sea Level.
3. DTW = Depth to water (in feet) from top of well casing.
4. Product thickness is measured in feet.
5. GWT = Groundwater Table
6. A zero ("0.00") in the product thickness column indicates no measureable thickness.
7. GWT Elevation corrected for measurable free product, if present.

Well No.	Type	TOC	Date	DTW	Product Thickness	Corrected GWT Elevation
USTM232-236-MW13	T-II	15.75	8/15/2006	12.34	0.00	3.41
USTM232-236-MW13	T-II	15.75	11/2/2006	12.80	0.00	2.95
USTM232-236-MW13	T-II	15.75	1/23/2007	11.53	0.00	4.22
USTM232-236-MW13	T-II	15.75	4/6/2007	12.85	0.00	2.90
USTM232-236-MW13	T-II	15.75	6/21/2007	13.65	0.00	2.10
USTM232-236-MW13	T-II	15.75	12/18/2007	14.38	0.00	1.37
USTM232-236-MW14	T-II	15.84	12/12/2005	12.67	0.00	3.17
USTM232-236-MW14	T-II	15.84	8/15/2006	12.22	0.00	3.62
USTM232-236-MW14	T-II	15.84	11/2/2006	12.31	0.00	3.53
USTM232-236-MW14	T-II	15.84	1/23/2007	10.50	0.00	5.34
USTM232-236-MW14	T-II	15.84	4/6/2007	12.47	0.00	3.37
USTM232-236-MW14	T-II	15.84	6/21/2007	12.95	0.00	2.89
USTM232-236-MW14	T-II	15.84	12/18/2007	14.16	0.00	1.68
USTM232-236-MW15	T-II	14.82	12/12/2005	11.73	0.00	3.09
USTM232-236-MW15	T-II	14.82	8/15/2006	11.86	0.00	2.96
USTM232-236-MW15	T-II	14.82	11/2/2006	11.90	0.00	2.92
USTM232-236-MW15	T-II	14.82	1/23/2007	10.44	0.00	4.38
USTM232-236-MW15	T-II	14.82	4/6/2007	12.03	0.00	2.79
USTM232-236-MW15	T-II	14.82	6/21/2007	12.95	0.00	1.87
USTM232-236-MW15	T-II	14.82	12/18/2007	13.56	0.00	1.26
USTM232-236-MW16	T-II	14.88	12/12/2005	12.11	0.00	2.77
USTM232-236-MW16	T-II	14.88	8/15/2006	12.30	0.00	2.58
USTM232-236-MW16	T-II	14.88	11/2/2006	12.33	0.00	2.55
USTM232-236-MW16	T-II	14.88	1/23/2007	10.70	0.00	4.18
USTM232-236-MW16	T-II	14.88	4/6/2007	12.40	0.00	2.48
USTM232-236-MW16	T-II	14.88	6/21/2007	11.24	0.00	3.64
USTM232-236-MW16	T-II	14.88	12/18/2007	13.75	0.00	1.13
USTM232-236-MW17	T-II	14.15	12/12/2005	8.73	0.00	5.42
USTM232-236-MW17	T-II	14.15	8/15/2006	11.08	0.00	3.07
USTM232-236-MW17	T-II	14.15	11/2/2006	10.25	0.00	3.90

Notes:
1. T-II = Type II monitoring well
   T-III = Type III monitoring well
   RW = Recovery well
2. TOC = Top of casing elevation in feet relative to Mean Sea Level.
3. DTW = Depth to water (in feet) from top of well casing.
4. Product thickness is measured in feet.
5. GWT = Groundwater Table
6. A zero ("0.00") in the product thickness column indicates no measureable thickness.
7. GWT Elevation corrected for measurable free product, if present.

Well No.	Type	TOC	Date	DTW	Product Thickness	Corrected GWT Elevation
USTM232-236-MW17	T-II	14.15	1/23/2007	5.32	0.00	8.83
USTM232-236-MW17	T-II	14.15	4/6/2007	11.05	0.00	3.10
USTM232-236-MW17	T-II	14.15	6/21/2007	11.69	0.00	2.46
USTM232-236-MW17	T-II	14.15	12/18/2007	10.82	0.00	3.33
USTM232-236-MW18	T-II	10.28	12/12/2005	8.44	0.00	1.84
USTM232-236-MW18	T-II	10.28	8/15/2006	8.53	0.00	1.75
USTM232-236-MW18	T-II	10.28	11/2/2006	8.58	0.00	1.70
USTM232-236-MW18	T-II	10.28	1/23/2007	7.42	0.00	2.86
USTM232-236-MW18	T-II	10.28	4/6/2007	8.65	0.00	1.63
USTM232-236-MW18	T-II	10.28	6/21/2007	8.96	0.00	1.32
USTM232-236-MW18	T-II	10.28	12/18/2007	9.95	0.00	0.33
USTM232-236-MW19	T-II	11.15	12/12/2005	8.17	0.02	3.00
USTM232-236-MW19	T-II	11.15	8/15/2006	8.58	0.00	2.57
USTM232-236-MW19	T-II	11.15	11/2/2006	8.62	0.24	2.74
USTM232-236-MW19	T-II	11.15	1/23/2007	7.02	0.12	4.23
USTM232-236-MW19	T-II	11.15	4/6/2007	8.80	0.45	2.74
USTM232-236-MW20	T-II	11.03	12/12/2005	8.20	0.00	2.83
USTM232-236-MW20	T-II	11.03	8/15/2006	8.38	0.00	2.65
USTM232-236-MW20	T-II	11.03	11/2/2006	8.40	0.00	2.63
USTM232-236-MW20	T-II	11.03	1/23/2007	6.98	0.00	4.05
USTM232-236-MW20	T-II	11.03	4/6/2007	8.48	0.00	2.55
USTM232-236-MW20	T-II	11.03	6/21/2007	8.74	0.00	2.29
USTM232-236-MW20	T-II	11.03	12/18/2007	9.83	0.00	1.20
USTM232-236-MW21	T-II	11.36	12/12/2005	8.02	0.00	3.34
USTM232-236-MW21	T-II	11.36	8/15/2006	8.26	0.00	3.10
USTM232-236-MW21	T-II	11.36	11/2/2006	8.30	0.00	3.06
USTM232-236-MW21	T-II	11.36	1/23/2007	6.28	0.00	5.08
USTM232-236-MW21	T-II	11.36	4/6/2007	8.43	0.00	2.93
USTM232-236-MW21	T-II	11.36	6/21/2007	8.98	0.00	2.38
USTM232-236-MW21	T-II	11.36	12/18/2007	9.87	0.00	1.49

Notes:
1. T-II = Type II monitoring well
   T-III = Type III monitoring well
   RW = Recovery well
2. TOC = Top of casing elevation in feet relative to Mean Sea Level.
3. DTW = Depth to water (in feet) from top of well casing.
4. Product thickness is measured in feet.
5. GWT = Groundwater Table
6. A zero ("0.00") in the product thickness column indicates no measureable thickness.
7. GWT Elevation corrected for measurable free product, if present.

Well No.	Type	TOC	Date	DTW	Product Thickness	Corrected GWT Elevation
USTM232-236-MW22	T-II	11.31	12/12/2005	7.93	0.00	3.38
USTM232-236-MW22	T-II	11.31	8/15/2006	8.04	0.00	3.27
USTM232-236-MW22	T-II	11.31	11/2/2006	8.00	0.00	3.31
USTM232-236-MW22	T-II	11.31	1/23/2007	6.38	0.00	4.93
USTM232-236-MW22	T-II	11.31	4/6/2007	8.42	0.00	2.89
USTM232-236-MW22	T-II	11.31	6/21/2007	9.08	0.00	2.23
USTM232-236-MW22	T-II	11.31	12/18/2007	9.88	0.00	1.43
USTM232-236-MW23	T-II	10.26	12/18/2007	7.57	0.00	2.69

Notes:
1. T-II = Type II monitoring well
   T-III = Type III monitoring well
   RW = Recovery well
2. TOC = Top of casing elevation in feet relative to Mean Sea Level.
3. DTW = Depth to water (in feet) from top of well casing.
4. Product thickness is measured in feet.
5. GWT = Groundwater Table
6. A zero ("0.00") in the product thickness column indicates no measureable thickness.
7. GWT Elevation corrected for measurable free product, if present.

TABLE 26.2

SITE M-232-236

GROUNDWATER LABORATORY ANALYTICAL RESULTS - JULY 2005 TO DECEMBER 2007

EPA METHOD 602

Contaminant of Concern →		Ethylbenzene	Methyl-tert butyl ether	Toluene	Total Xylenes
Well ID	Date				
2L GWQS		550	200	1000	530
GCL		550000	200000	257500	87500
USTM232-236-MW01	6/21/2007	BQL	BQL	BQL	BQL
USTM232-236-MW01	12/18/2007	BQL	BQL	BQL	BQL
USTM232-236-MW03	6/21/2007	BQL	BQL	BQL	BQL
USTM232-236-MW03	12/18/2007	BQL	BQL	BQL	BQL
USTM232-236-MW05	12/12/2005	BQL	BQL	1.13	BQL
USTM232-236-MW05	8/17/2006	BQL	BQL	BQL	BQL
USTM232-236-MW05	1/23/2007	0.18	BQL	1.28	BQL
USTM232-236-MW05	6/21/2007	BQL	BQL	BQL	BQL
USTM232-236-MW05	12/18/2007	BQL	BQL	BQL	BQL

Notes:
1. 2L GWQS = North Carolina groundwater quality standard 15A NCAC 2L .0202
2. GCL = Gross Contamination Levels for ground water as defined in "Guidelines for Assessment and Corrective Action" North Carolina Underground Storage Tank Section, effective July 1, 2001
3. All units are in ug/L (Micrograms per Liter)
4. BQL = Below Quantitaion Limits
5. A zero in the 2L GWQS row indicates the 2L Standard is equal to the laboratory detection limit
6. A zero in the GCL row indicates a GCL has not been established
7. Shaded concentrations indicate exceedance of the 2L GWQS
8. Only compounds which were detected are shown on table. All other compounds were BQL

TABLE 26.2

SITE M-232-236

GROUNDWATER LABORATORY ANALYTICAL RESULTS - JULY 2005 TO DECEMBER 2007

EPA METHOD 602

Contaminant of Concern →		Ethylbenzene	Methyl-tert butyl ether	Toluene	Total Xylenes
Well ID	Date				
2L GWQS		550	200	1000	530
GCL		550000	200000	257500	87500
USTM232-236-MW07	12/12/2005	BQL	BQL	BQL	BQL
USTM232-236-MW07	8/17/2006	BQL	BQL	BQL	BQL
USTM232-236-MW07	1/23/2007	BQL	BQL	0.53	BQL
USTM232-236-MW08	6/21/2007	BQL	0.79	BQL	BQL
USTM232-236-MW08	12/18/2007	BQL	0.46	BQL	BQL
USTM232-236-MW09	6/21/2007	BQL	BQL	BQL	BQL
USTM232-236-MW09	12/18/2007	BQL	BQL	BQL	BQL
USTM232-236-MW15	6/21/2007	BQL	BQL	BQL	BQL
USTM232-236-MW15	12/18/2007	BQL	BQL	BQL	BQL

Notes:
1. 2L GWQS = North Carolina groundwater quality standard 15A NCAC 2L .0202
2. GCL = Gross Contamination Levels for ground water as defined in "Guidelines for Assessment and Corrective Action" North Carolina Underground Storage Tank Section, effective July 1, 2001
3. All units are in ug/L (Micrograms per Liter)
4. BQL = Below Quantitaion Limits
5. A zero in the 2L GWQS row indicates the 2L Standard is equal to the laboratory detection limit
6. A zero in the GCL row indicates a GCL has not been established
7. Shaded concentrations indicate exceedance of the 2L GWQS
8. Only compounds which were detected are shown on table. All other compounds were BQL

TABLE 26.2

SITE M-232-236

GROUNDWATER LABORATORY ANALYTICAL RESULTS - JULY 2005 TO DECEMBER 2007

EPA METHOD 602

Contaminant of Concern →		Ethylbenzene	Methyl-tert butyl ether	Toluene	Total Xylenes
Well ID	Date				
2L GWQS		550	200	1000	530
GCL		550000	200000	257500	87500
USTM232-236-MW18	12/12/2005	BQL	BQL	1.43	BQL
USTM232-236-MW18	8/16/2006	BQL	BQL	BQL	BQL
USTM232-236-MW18	1/23/2007	0.33	BQL	0.60	BQL
USTM232-236-MW18	6/21/2007	0.53	BQL	BQL	BQL
USTM232-236-MW18	12/18/2007	BQL	BQL	BQL	BQL
USTM232-236-MW20	12/12/2005	BQL	BQL	1.01	BQL
USTM232-236-MW20	8/16/2006	BQL	BQL	BQL	BQL
USTM232-236-MW20	1/23/2007	0.36	BQL	0.47	BQL
USTM232-236-MW20	6/21/2007	0.76	BQL	BQL	BQL
USTM232-236-MW20	12/18/2007	BQL	BQL	BQL	BQL

Notes:
1. 2L GWQS = North Carolina groundwater quality standard 15A NCAC 2L .0202
2. GCL = Gross Contamination Levels for ground water as defined in "Guidelines for Assessment and Corrective Action" North Carolina Underground Storage Tank Section, effective July 1, 2001
3. All units are in ug/L (Micrograms per Liter)
4. BQL = Below Quantitaion Limits
5. A zero in the 2L GWQS row indicates the 2L Standard is equal to the laboratory detection limit
6. A zero in the GCL row indicates a GCL has not been established
7. Shaded concentrations indicate exceedance of the 2L GWQS
8. Only compounds which were detected are shown on table. All other compounds were BQL

TABLE 26.2

SITE M-232-236

GROUNDWATER LABORATORY ANALYTICAL RESULTS - JULY 2005 TO DECEMBER 2007

EPA METHOD 602

Contaminant of Concern →		Ethylbenzene	Methyl-tert butyl ether	Toluene	Total Xylenes
Well ID	Date				
2L GWQS		550	200	1000	530
GCL		550000	200000	257500	87500
USTM232-236-MW21	12/12/2005	1.62	BQL	1.64	BQL
USTM232-236-MW21	8/16/2006	BQL	BQL	BQL	BQL
USTM232-236-MW21	1/23/2007	1.09	BQL	0.96	1.02
USTM232-236-MW21	6/22/2007	0.46	BQL	BQL	0.70
USTM232-236-MW21	12/18/2007	BQL	BQL	BQL	BQL
USTM232-236-MW22	12/12/2005	BQL	BQL	1.20	BQL
USTM232-236-MW22	8/16/2006	BQL	BQL	0.31	BQL
USTM232-236-MW22	1/23/2007	0.58	BQL	0.86	0.47
USTM232-236-MW22	6/22/2007	2.07	BQL	BQL	0.84
USTM232-236-MW22	12/18/2007	0.94	BQL	BQL	BQL

Notes:
1. 2L GWQS = North Carolina groundwater quality standard 15A NCAC 2L .0202
2. GCL = Gross Contamination Levels for ground water as defined in "Guidelines for Assessment and Corrective Action" North Carolina Underground Storage Tank Section, effective July 1, 2001
3. All units are in ug/L (Micrograms per Liter)
4. BQL = Below Quantitaion Limits
5. A zero in the 2L GWQS row indicates the 2L Standard is equal to the laboratory detection limit
6. A zero in the GCL row indicates a GCL has not been established
7. Shaded concentrations indicate exceedance of the 2L GWQS
8. Only compounds which were detected are shown on table. All other compounds were BQL

TABLE 26.3

SITE M-232-236

GROUNDWATER LABORATORY ANALYTICAL RESULTS - JULY 2005 TO DECEMBER 2007

EPA METHOD 625

Contaminant of Concern →		Acenaphthene	Anthracene	Diphenylamine	Fluorene	Naphthalene	Phenanthrene
Well ID	Date						
2L GWQS		80	2100	0	280	21	210
GCL		2120	2100	0	950	15500	410
USTM232-236-MW01	6/21/2007	BQL	BQL	BQL	BQL	BQL	BQL
USTM232-236-MW01	12/18/2007	BQL	BQL	BQL	BQL	BQL	BQL
USTM232-236-MW03	6/21/2007	1.90	BQL	BQL	1.90	BQL	BQL
USTM232-236-MW03	12/18/2007	1.40	BQL	BQL	1.70	BQL	BQL
USTM232-236-MW05	12/12/2005	BQL	BQL	BQL	BQL	BQL	BQL
USTM232-236-MW05	8/17/2006	BQL	BQL	BQL	BQL	BQL	BQL
USTM232-236-MW05	1/23/2007	BQL	BQL	BQL	BQL	BQL	BQL
USTM232-236-MW05	6/21/2007	BQL	BQL	BQL	BQL	BQL	BQL
USTM232-236-MW05	12/18/2007	BQL	BQL	BQL	BQL	BQL	BQL

Notes:
1. 2L GWQS = North Carolina groundwater quality standard 15A NCAC 2L .0202
2. GCL = Gross Contamination Levels for ground water as defined in "Guidelines for Assessment and Corrective Action" North Carolina Underground Storage Tank Section, effective July 1, 2001
3. All units are in ug/L (Micrograms per Liter)
4. BQL = Below Quantitaion Limits
5. A zero in the 2L GWQS row indicates the 2L Standard is equal to the laboratory detection limit
6. A zero in the GCL row indicates a GCL has not been established
7. Shaded concentrations indicate exceedance of the 2L GWQS
8. Only compounds which were detected are shown on table. All other compounds were BQL

TABLE 26.3

SITE M-232-236

GROUNDWATER LABORATORY ANALYTICAL RESULTS - JULY 2005 TO DECEMBER 2007

EPA METHOD 625

Contaminant of Concern →		Acenaphthene	Anthracene	Diphenylamine	Fluorene	Naphthalene	Phenanthrene
Well ID	Date						
2L GWQS		80	2100	0	280	21	210
GCL		2120	2100	0	950	15500	410
USTM232-236-MW07	12/12/2005	BQL	BQL	BQL	BQL	BQL	BQL
USTM232-236-MW07	8/17/2006	BQL	BQL	BQL	BQL	BQL	BQL
USTM232-236-MW07	1/23/2007	BQL	BQL	BQL	BQL	BQL	BQL
USTM232-236-MW08	6/21/2007	BQL	BQL	BQL	BQL	BQL	BQL
USTM232-236-MW08	12/18/2007	BQL	BQL	BQL	BQL	BQL	BQL
USTM232-236-MW09	6/21/2007	BQL	BQL	BQL	BQL	BQL	BQL
USTM232-236-MW09	12/18/2007	BQL	BQL	BQL	BQL	BQL	BQL
USTM232-236-MW15	6/21/2007	BQL	BQL	BQL	BQL	BQL	BQL
USTM232-236-MW15	12/18/2007	BQL	BQL	BQL	BQL	BQL	BQL

Notes:
1. 2L GWQS = North Carolina groundwater quality standard 15A NCAC 2L .0202
2. GCL = Gross Contamination Levels for ground water as defined in "Guidelines for Assessment and Corrective Action" North Carolina Underground Storage Tank Section, effective July 1, 2001
3. All units are in ug/L (Micrograms per Liter)
4. BQL = Below Quantitaion Limits
5. A zero in the 2L GWQS row indicates the 2L Standard is equal to the laboratory detection limit
6. A zero in the GCL row indicates a GCL has not been established
7. Shaded concentrations indicate exceedance of the 2L GWQS
8. Only compounds which were detected are shown on table. All other compounds were BQL

TABLE 26.3

SITE M-232-236

GROUNDWATER LABORATORY ANALYTICAL RESULTS - JULY 2005 TO DECEMBER 2007

EPA METHOD 625

Contaminant of Concern →		Acenaphthene	Anthracene	Diphenylamine	Fluorene	Naphthalene	Phenanthrene
Well ID	Date						
2L GWQS		80	2100	0	280	21	210
GCL		2120	2100	0	950	15500	410
USTM232-236-MW18	12/12/2005	5.50	BQL	BQL	7.40	BQL	7.00
USTM232-236-MW18	8/16/2006	7.60	BQL	1.70	10.80	BQL	9.80
USTM232-236-MW18	1/23/2007	9.30	BQL	BQL	10.30	1.60	8.20
USTM232-236-MW18	6/21/2007	5.90	BQL	BQL	8.60	5.70	3.40
USTM232-236-MW18	12/18/2007	BQL	BQL	BQL	2.70	BQL	BQL
USTM232-236-MW20	12/12/2005	BQL	BQL	BQL	1.40	BQL	BQL
USTM232-236-MW20	8/16/2006	1.70	BQL	BQL	1.70	BQL	BQL
USTM232-236-MW20	1/23/2007	1.40	BQL	BQL	1.60	BQL	BQL
USTM232-236-MW20	6/21/2007	2.30	BQL	BQL	2.20	1.20	BQL
USTM232-236-MW20	12/18/2007	1.60	BQL	BQL	1.60	BQL	BQL

Notes:
1. 2L GWQS = North Carolina groundwater quality standard 15A NCAC 2L .0202
2. GCL = Gross Contamination Levels for ground water as defined in "Guidelines for Assessment and Corrective Action" North Carolina Underground Storage Tank Section, effective July 1, 2001
3. All units are in ug/L (Micrograms per Liter)
4. BQL = Below Quantitaion Limits
5. A zero in the 2L GWQS row indicates the 2L Standard is equal to the laboratory detection limit
6. A zero in the GCL row indicates a GCL has not been established
7. Shaded concentrations indicate exceedance of the 2L GWQS
8. Only compounds which were detected are shown on table. All other compounds were BQL

TABLE 26.3

SITE M-232-236

GROUNDWATER LABORATORY ANALYTICAL RESULTS - JULY 2005 TO DECEMBER 2007

EPA METHOD 625

Contaminant of Concern →							
Well ID	**Date**	**Acenaphthene**	**Anthracene**	**Diphenylamine**	**Fluorene**	**Naphthalene**	**Phenanthrene**
2L GWQS		80	2100	0	280	21	210
GCL		2120	2100	0	950	15500	410
USTM232-236-MW21	12/12/2005	3.20	BQL	BQL	5.70	5.50	3.60
USTM232-236-MW21	8/16/2006	BQL	BQL	BQL	6.50	2.80	BQL
USTM232-236-MW21	1/23/2007	5.20	BQL	BQL	6.60	4.40	6.70
USTM232-236-MW21	12/18/2007	2.10	1.80	BQL	3.00	BQL	BQL
USTM232-236-MW22	12/12/2005	2.20	BQL	BQL	3.30	4.90	3.00
USTM232-236-MW22	8/16/2006	BQL	BQL	BQL	7.10	4.80	BQL
USTM232-236-MW22	1/23/2007	3.00	BQL	BQL	3.40	4.40	3.00
USTM232-236-MW22	6/22/2007	5.60	BQL	BQL	5.60	18.30	2.60
USTM232-236-MW22	12/18/2007	2.60	BQL	BQL	3.10	3.20	2.40

Notes:
1. 2L GWQS = North Carolina groundwater quality standard 15A NCAC 2L .0202
2. GCL = Gross Contamination Levels for ground water as defined in "Guidelines for Assessment and Corrective Action" North Carolina Underground Storage Tank Section, effective July 1, 2001
3. All units are in ug/L (Micrograms per Liter)
4. BQL = Below Quantitaion Limits
5. A zero in the 2L GWQS row indicates the 2L Standard is equal to the laboratory detection limit
6. A zero in the GCL row indicates a GCL has not been established
7. Shaded concentrations indicate exceedance of the 2L GWQS
8. Only compounds which were detected are shown on table. All other compounds were BQL

TABLE 26.4

SITE M-232-236

GROUNDWATER LABORATORY ANALYTICAL RESULTS - JULY 2005 TO DECEMBER 2007

MADEP VPH/EPH

Contaminant of Concern →		C9-C18 Aliphatics	C9-C22 Aromatics
Well ID	Date		
2L GWQS		4200	210
GCL		0	0
USTM232-236-MW01	6/21/2007	BQL	BQL
USTM232-236-MW01	12/18/2007	BQL	BQL
USTM232-236-MW03	6/21/2007	BQL	1029.40
USTM232-236-MW03	12/18/2007	BQL	BQL
USTM232-236-MW05	12/12/2005	BQL	BQL
USTM232-236-MW05	8/17/2006	BQL	BQL
USTM232-236-MW05	9/19/2006	BQL	BQL
USTM232-236-MW05	1/23/2007	BQL	BQL
USTM232-236-MW05	6/21/2007	BQL	53.50
USTM232-236-MW05	12/18/2007	BQL	BQL

Notes:
1. 2L GWQS = North Carolina groundwater quality standard 15A NCAC 2L .0202
2. GCL = Gross Contamination Levels for ground water as defined in "Guidelines for Assessment and Corrective Action" North Carolina Underground Storage Tank Section, effective July 1, 2001
3. All units are in ug/L (Micrograms per Liter)
4. BQL = Below Quantitaion Limits
5. A zero in the 2L GWQS row indicates the 2L Standard is equal to the laboratory detection limit
6. A zero in the GCL row indicates a GCL has not been established
7. Shaded concentrations indicate exceedance of the 2L GWQS
8. Only compounds which were detected are shown on table. All other compounds were BQL

TABLE 26.4

SITE M-232-236

GROUNDWATER LABORATORY ANALYTICAL RESULTS - JULY 2005 TO DECEMBER 2007

MADEP VPH/EPH

Contaminant of Concern →		C9-C18 Aliphatics	C9-C22 Aromatics
Well ID	Date		
2L GWQS		4200	210
GCL		0	0
USTM232-236-MW07	12/12/2005	BQL	BQL
USTM232-236-MW07	8/17/2006	BQL	BQL
USTM232-236-MW07	9/19/2006	BQL	BQL
USTM232-236-MW07	1/23/2007	BQL	BQL
USTM232-236-MW08	6/21/2007	BQL	54.10
USTM232-236-MW08	12/18/2007	BQL	BQL
USTM232-236-MW09	6/21/2007	BQL	BQL
USTM232-236-MW09	12/18/2007	BQL	BQL
USTM232-236-MW15	6/21/2007	BQL	BQL
USTM232-236-MW15	12/18/2007	BQL	BQL

Notes:
1. 2L GWQS = North Carolina groundwater quality standard 15A NCAC 2L .0202
2. GCL = Gross Contamination Levels for ground water as defined in "Guidelines for Assessment and Corrective Action" North Carolina Underground Storage Tank Section, effective July 1, 2001
3. All units are in ug/L (Micrograms per Liter)
4. BQL = Below Quantitaion Limits
5. A zero in the 2L GWQS row indicates the 2L Standard is equal to the laboratory detection limit
6. A zero in the GCL row indicates a GCL has not been established
7. Shaded concentrations indicate exceedance of the 2L GWQS
8. Only compounds which were detected are shown on table. All other compounds were BQL

TABLE 26.4

SITE M-232-236

GROUNDWATER LABORATORY ANALYTICAL RESULTS - JULY 2005 TO DECEMBER 2007

MADEP VPH/EPH

Contaminant of Concern →		C9-C18 Aliphatics	C9-C22 Aromatics
Well ID	Date		
2L GWQS		4200	210
GCL		0	0
USTM232-236-MW18	12/12/2005	130.00	**420.00**
USTM232-236-MW18	8/16/2006	BQL	BQL
USTM232-236-MW18	9/19/2006	230.00	**520.00**
USTM232-236-MW18	1/23/2007	250.00	**320.00**
USTM232-236-MW18	6/21/2007	75.60	**309.00**
USTM232-236-MW18	12/18/2007	BQL	BQL
USTM232-236-MW20	12/12/2005	BQL	BQL
USTM232-236-MW20	8/16/2006	BQL	BQL
USTM232-236-MW20	9/19/2006	BQL	BQL
USTM232-236-MW20	1/23/2007	BQL	BQL
USTM232-236-MW20	6/21/2007	BQL	94.50
USTM232-236-MW20	12/18/2007	BQL	BQL

Notes:
1. 2L GWQS = North Carolina groundwater quality standard 15A NCAC 2L .0202
2. GCL = Gross Contamination Levels for ground water as defined in "Guidelines for Assessment and Corrective Action" North Carolina Underground Storage Tank Section, effective July 1, 2001
3. All units are in ug/L (Micrograms per Liter)
4. BQL = Below Quantitaion Limits
5. A zero in the 2L GWQS row indicates the 2L Standard is equal to the laboratory detection limit
6. A zero in the GCL row indicates a GCL has not been established
7. Shaded concentrations indicate exceedance of the 2L GWQS
8. Only compounds which were detected are shown on table. All other compounds were BQL

TABLE 26.4

SITE M-232-236

GROUNDWATER LABORATORY ANALYTICAL RESULTS - JULY 2005 TO DECEMBER 2007

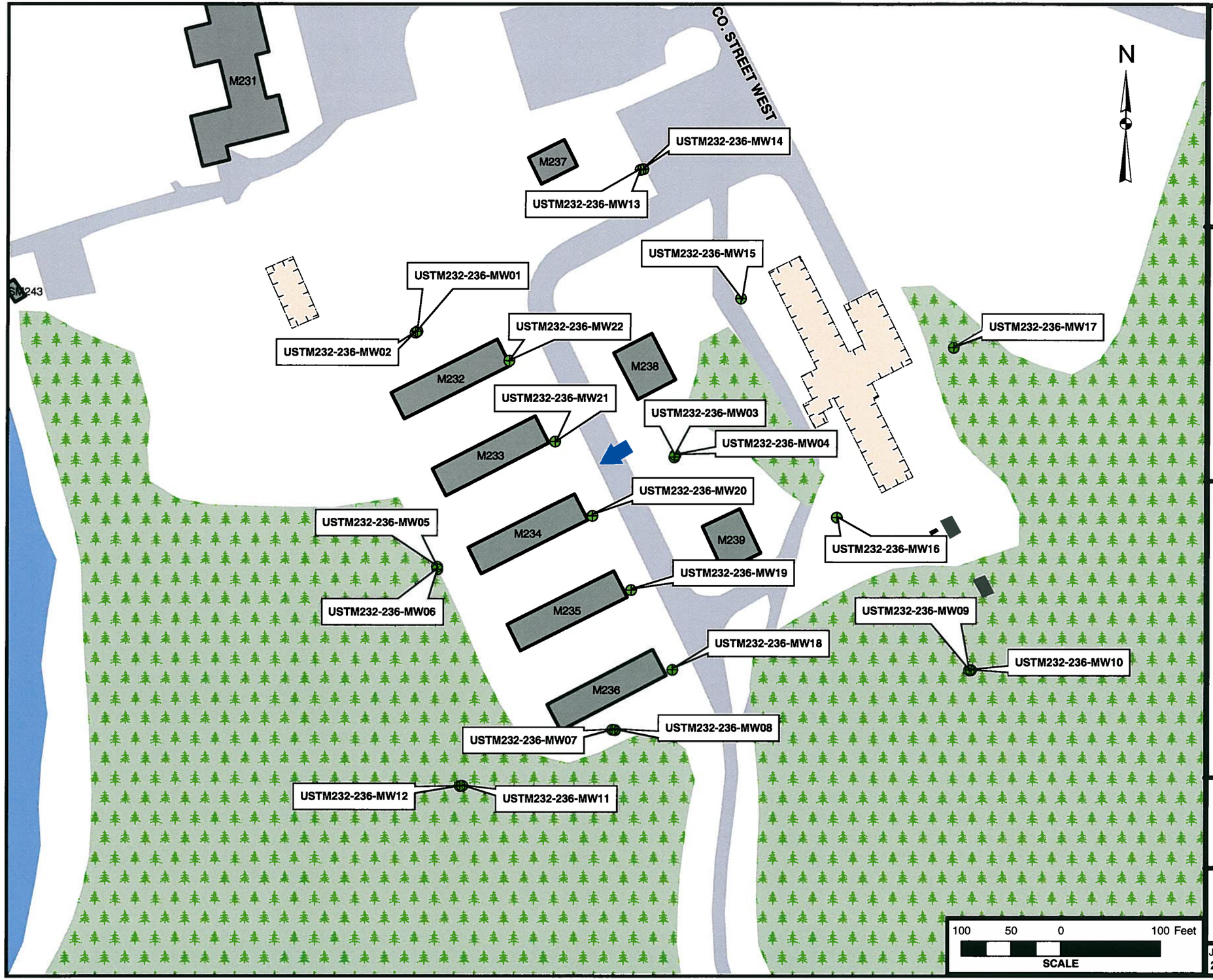
MADEP VPH/EPH

Contaminant of Concern →		C9-C18 Aliphatics	C9-C22 Aromatics
Well ID	**Date**		
2L GWQS		4200	210
GCL		0	0
USTM232-236-MW21	12/12/2005	100.00	**300.00**
USTM232-236-MW21	8/16/2006	BQL	BQL
USTM232-236-MW21	9/19/2006	270.00	**410.00**
USTM232-236-MW21	1/23/2007	300.00	**550.00**
USTM232-236-MW21	6/22/2007	BQL	**409.00**
USTM232-236-MW21	12/18/2007	105.00	130.00
USTM232-236-MW22	12/12/2005	BQL	**250.00**
USTM232-236-MW22	8/16/2006	BQL	BQL
USTM232-236-MW22	9/19/2006	150.00	**390.00**
USTM232-236-MW22	1/23/2007	170.00	BQL
USTM232-236-MW22	6/22/2007	72.30	**505.00**
USTM232-236-MW22	12/18/2007	110.00	178.00

Notes:
1. 2L GWQS = North Carolina groundwater quality standard 15A NCAC 2L .0202
2. GCL = Gross Contamination Levels for ground water as defined in "Guidelines for Assessment and Corrective Action" North Carolina Underground Storage Tank Section, effective July 1, 2001
3. All units are in ug/L (Micrograms per Liter)
4. BQL = Below Quantitaion Limits
5. A zero in the 2L GWQS row indicates the 2L Standard is equal to the laboratory detection limit
6. A zero in the GCL row indicates a GCL has not been established
7. Shaded concentrations indicate exceedance of the 2L GWQS
8. Only compounds which were detected are shown on table. All other compounds were BQL

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Naval Facilities Engineering Command



LEGEND

Monitoring Wells
- Type I
- Type II
- Type III
- Pumping Well
- Unknown Well Type
- Water Supply Wells
- Above Ground Storage Tank
- Underground Storage Tank
- Railroad Tracks

Walls and Fences
- FENCE
- GATE
- WALL

Free Product
- Free Product Detected
- No Measurable Thickness
- Free Product Plume
- Buildings and Structures
- Demolished Structures
- Oil/Water Separators
- Slabs
- Roads
- Driveways
- Parking Lots
- Surface Water Bodies
- Creeks and Streams
- Historical Groundwater Flow Direction

Vegetation Cover
- Forestland
- Scrubland
- Wetland

Airfield Pavement
- HELIPAD
- RAMP
- RUNWAY
- SHLDR_OVERRUN
- TAXIWAY

NOTES

1. Free product was not detected at this site in any of the wells gauged during this monitoring event.

CATLIN
Engineers and Scientists

SITE M-232-236
FREE PRODUCT PLUME MAP
THIRD QUARTER 2006

FIGURE
26.1A

Job No.:	Date:	Scale:	Drawn By:	Checked By:
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UST MANAGEMENT PROGRAM
CALENDAR YEAR 2007

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N

CO. STREET WEST

M231
M237
M243
M232
M238
M233
M234
M239
M235
M236

USTM232-236-MW01
USTM232-236-MW02
USTM232-236-MW03
USTM232-236-MW04
USTM232-236-MW05
USTM232-236-MW06
USTM232-236-MW07
USTM232-236-MW08
USTM232-236-MW09
USTM232-236-MW10
USTM232-236-MW11
USTM232-236-MW12
USTM232-236-MW13
USTM232-236-MW14
USTM232-236-MW15
USTM232-236-MW16
USTM232-236-MW17
USTM232-236-MW18
USTM232-236-MW19
USTM232-236-MW20
USTM232-236-MW21
USTM232-236-MW22

LEGEND

Monitoring Wells
- Type I
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Vegetation Cover
- Forestland
- Scrubland
- Wetland

Airfield Pavement
- HELIPAD
- RAMP
- RUNWAY
- SHLDR_OVERRUN
- TAXIWAY

NOTES

Well ID	Well Type	Date	Product Thickness	Units	Measured By
USTM232-236-MW19	T-II	1/23/2007	0.12000	ft	SOVEREIGN

100 50 0 100 Feet
SCALE

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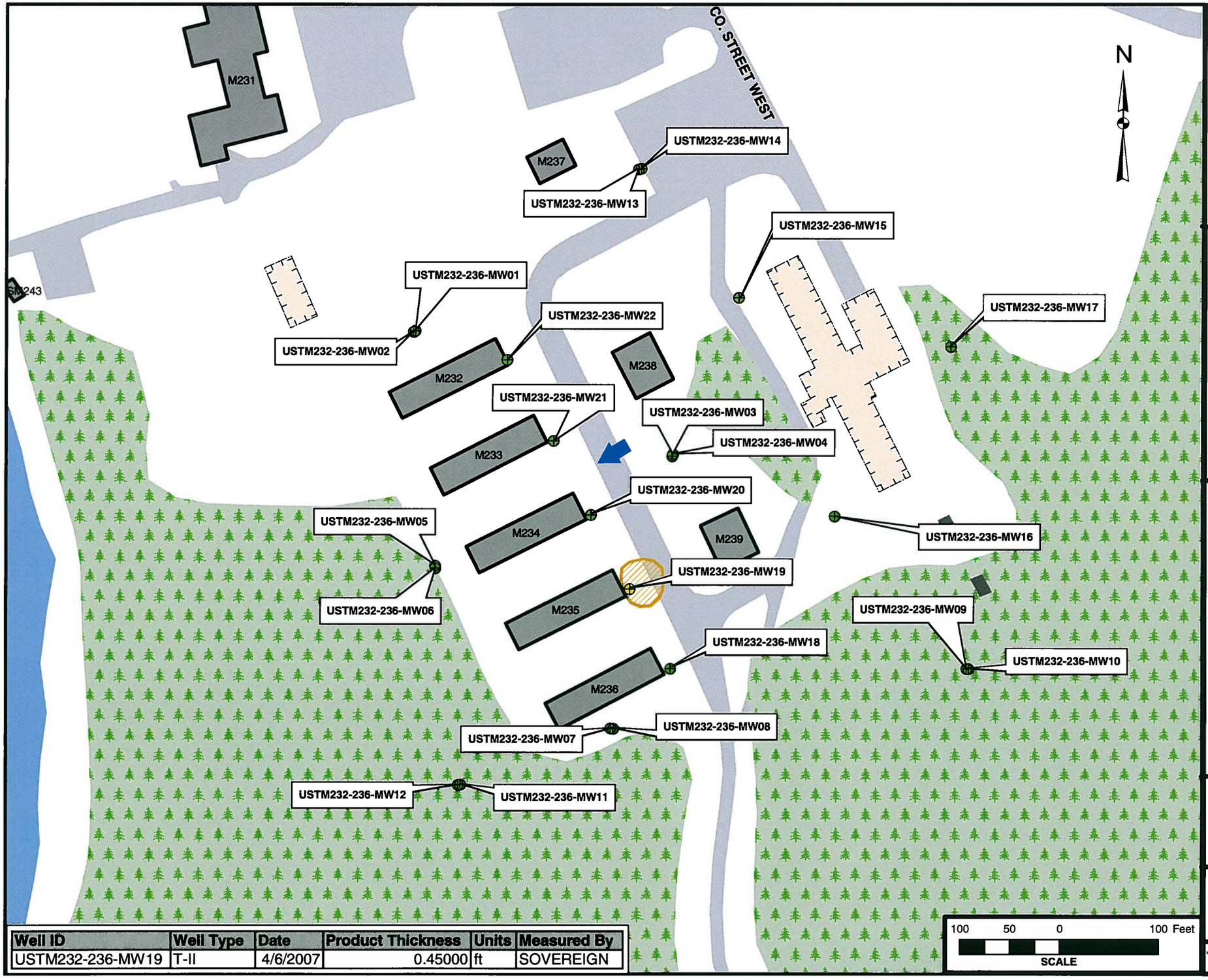
SITE M-232-236
FREE PRODUCT PLUME MAP
FIRST QUARTER 2007

FIGURE
26.1B

Job No.:	Date:	Scale:	Drawn By:	Checked By:
207-002	DEC 2007	AS SHOWN	SAC	MEM

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UST MANAGEMENT PROGRAM
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LEGEND

Monitoring Wells
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Free Product
- Free Product Detected
- No Measurable Thickness
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- Buildings and Structures
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Vegetation Cover
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- Scrubland
- Wetland

Airfield Pavement
- HELIPAD
- RAMP
- RUNWAY
- SHLDR_OVERRUN
- TAXIWAY

NOTES

Well ID	Well Type	Date	Product Thickness	Units	Measured By
USTM232-236-MW19	T-II	4/6/2007	0.45000	ft	SOVEREIGN

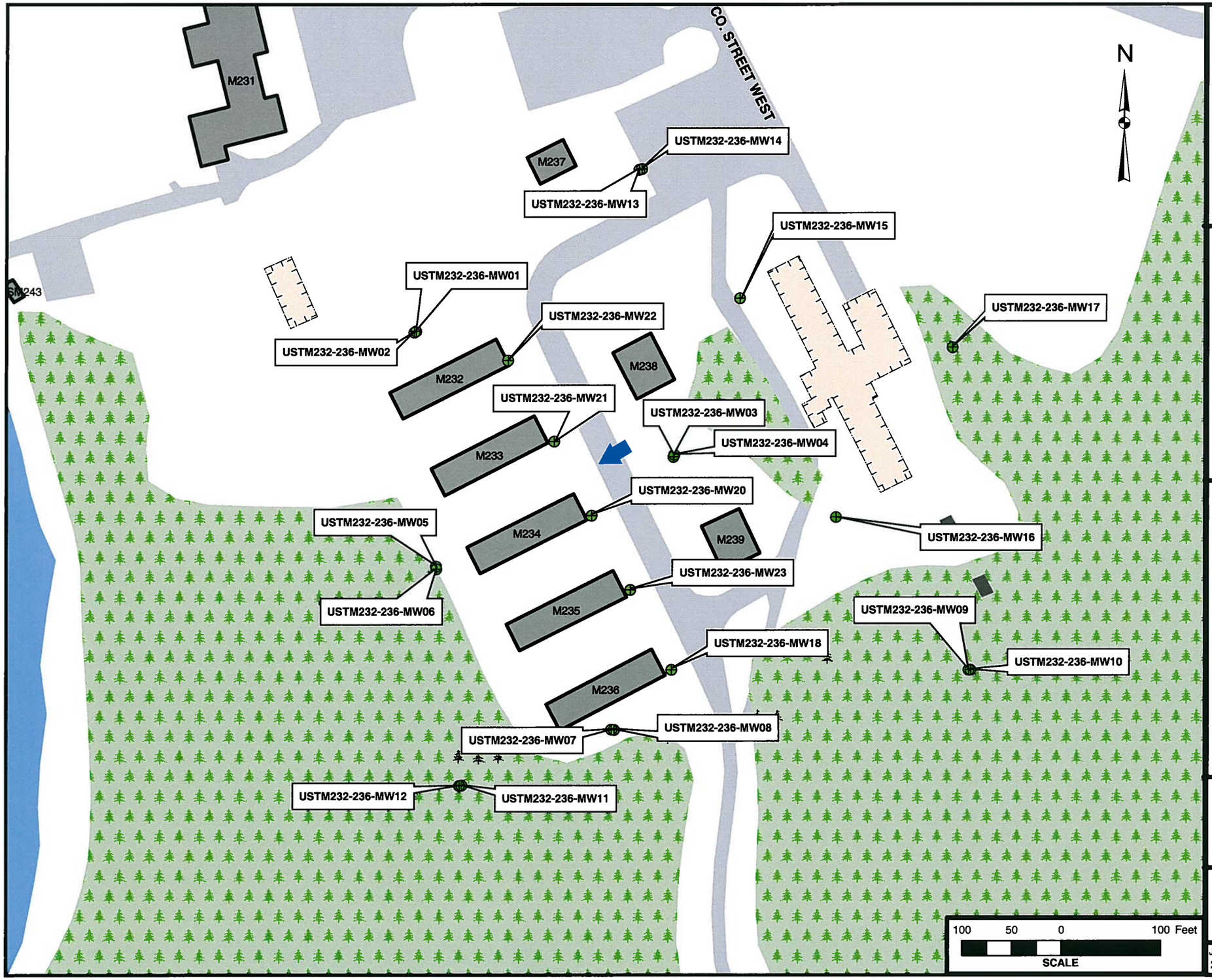
100 50 0 100 Feet
SCALE

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Engineers and Scientists

SITE M-232-236
FREE PRODUCT PLUME MAP
SECOND QUARTER 2007

FIGURE
26.1C

Job No.:	Date:	Scale:	Drawn By:	Checked By:
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MCB CAMP LEJEUNE
UST MANAGEMENT PROGRAM
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LEGEND

Monitoring Wells
- Type I
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- Pumping Well
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- Water Supply Wells
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- Railroad Tracks

Walls and Fences
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Free Product
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Vegetation Cover
- Forestland
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- Wetland

Airfield Pavement
- HELIPAD
- RAMP
- RUNWAY
- SHLDR_OVERRUN
- TAXIWAY

NOTES

1. Free product was not detected at this site in any of the wells gauged during this monitoring event.

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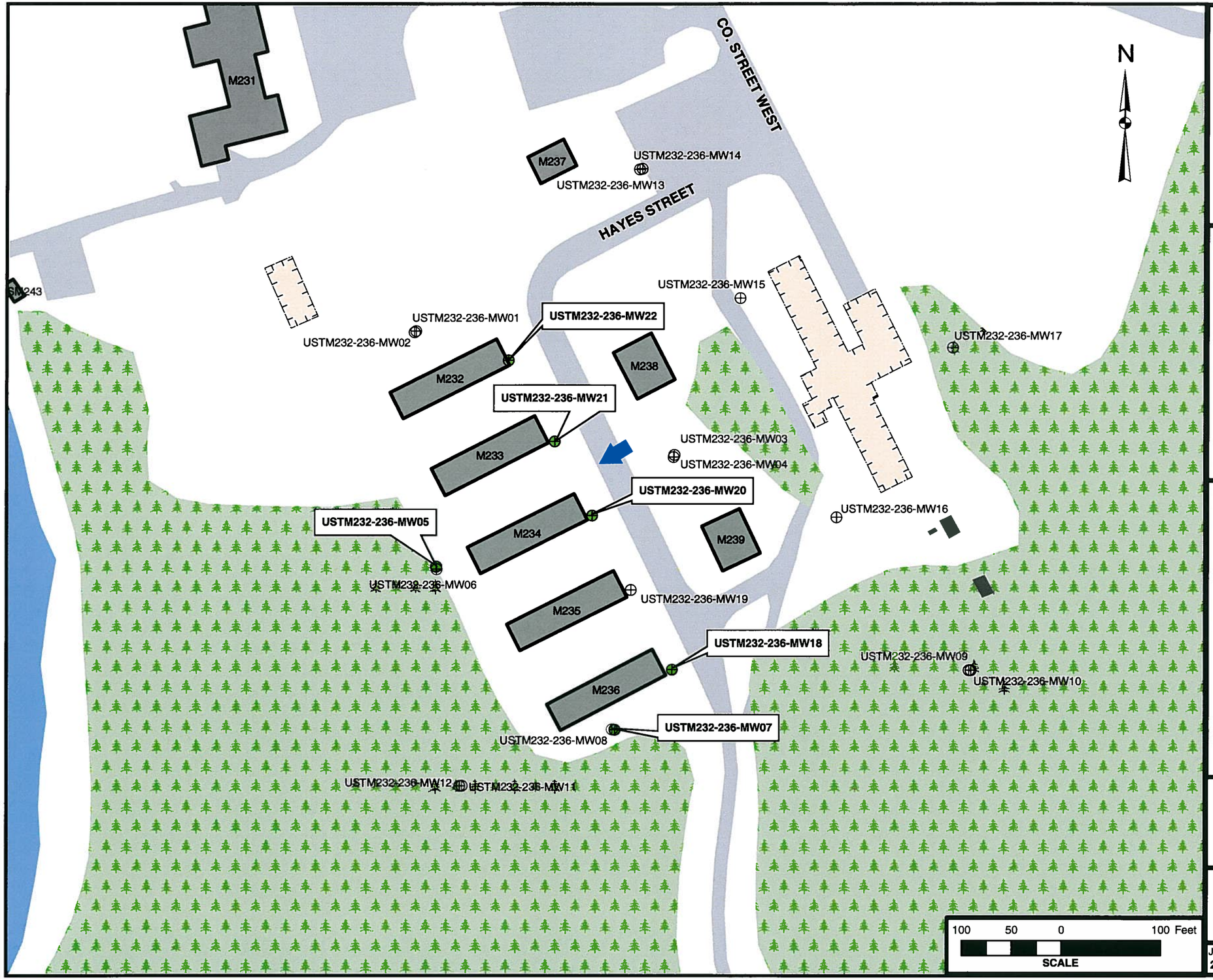
SITE M-232-236
FREE PRODUCT PLUME MAP
FOURTH QUARTER 2007

FIGURE
26.1D

Job No.:	Date:	Scale:	Drawn By:	Checked By:
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UST MANAGEMENT PROGRAM
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LEGEND

Monitoring Wells
- Type I
- Type II
- Type III
- Pumping Well
- Unknown Well Type
- Water Supply Wells
- Above Ground Storage Tank
- Underground Storage Tank
- Railroad Tracks

Walls and Fences
- FENCE
- GATE
- WALL

Analytical Results
- Free Product Detected
- 2L Non-Compliant
- 2L Compliant
- EPA 602 Plume
- Buildings and Structures
- Demolished Structures
- Oil/Water Separators
- Slabs
- Roads
- Driveways
- Parking Lots
- Surface Water Bodies
- Creeks and Streams
- Historical Groundwater Flow Direction

Vegetation Cover
- Forestland
- Scrubland
- Wetland

Airfield Pavement
- HELIPAD
- RAMP
- RUNWAY
- SHLDR_OVERRUN
- TAXIWAY

NOTES

1. No EPA Method 602 compounds were detected above the 2L GWQS for any wells sampled during this monitoring event.

CATLIN
Engineers and Scientists

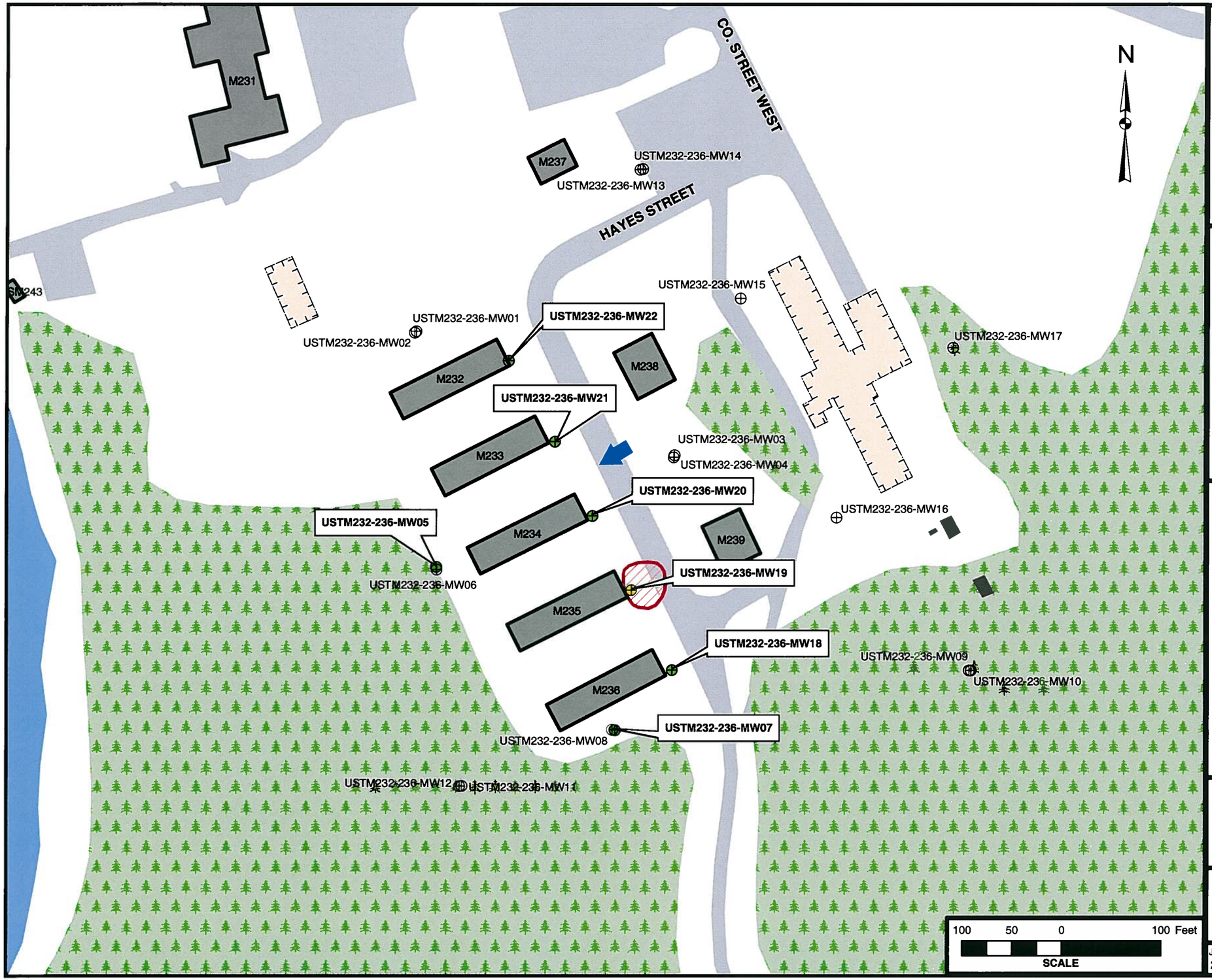
SITE M-232-236
EPA METHOD 602 COLORIMETRY AND PLUME IN EXCESS OF 2L
THIRD QUARTER 2006

FIGURE **26.2A**

Job No.:	Date:	Scale:	Drawn By:	Checked By:
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UST MANAGEMENT PROGRAM
CALENDAR YEAR 2007

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Naval Facilities Engineering Command



LEGEND

Monitoring Wells
- Type I
- Type II
- Type III
- Pumping Well
- Unknown Well Type
- Water Supply Wells
- Above Ground Storage Tank
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- Railroad Tracks

Walls and Fences
- FENCE
- GATE
- WALL

Analytical Results
- Free Product Detected
- 2L Non-Compliant
- 2L Compliant
- EPA 602 Plume
- Buildings and Structures
- Demolished Structures
- Oil/Water Separators
- Slabs
- Roads
- Driveways
- Parking Lots
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- Creeks and Streams
- Historical Groundwater Flow Direction

Vegetation Cover
- Forestland
- Scrubland
- Wetland

Airfield Pavement
- HELIPAD
- RAMP
- RUNWAY
- SHLDR_OVERRUN
- TAXIWAY

NOTES

1. No EPA Method 602 compounds were detected above the 2L GWQS for any wells sampled during this monitoring event.
2. EPA Method 602 plume boundary based on extent of free product.

CATLIN
Engineers and Scientists

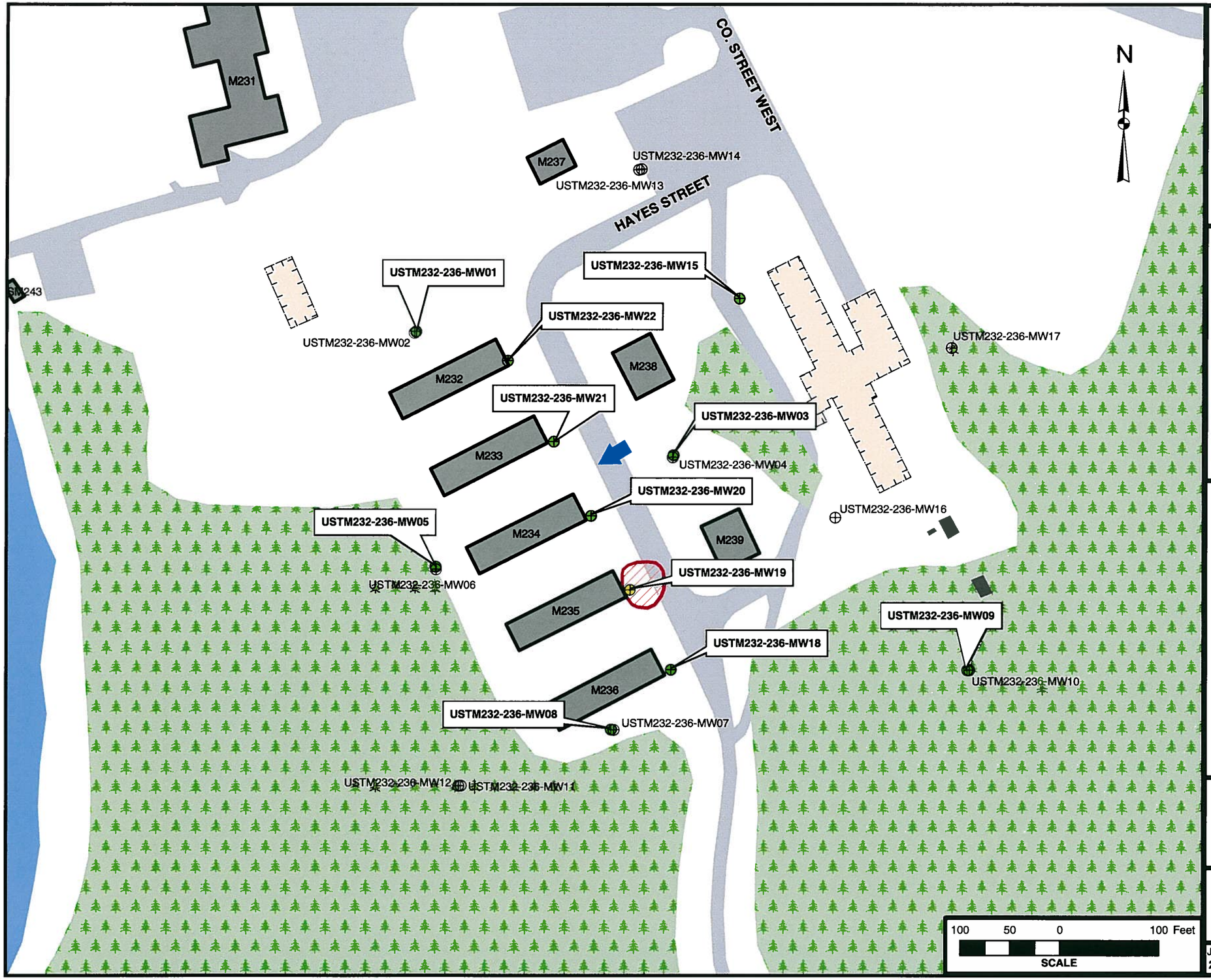
SITE M-232-236
EPA METHOD 602 COLORIMETRY AND PLUME IN EXCESS OF 2L
FIRST QUARTER 2007

FIGURE
26.2B

Job No.:	Date:	Scale:	Drawn By:	Checked By:
207-002	DEC 2007	AS SHOWN	SAC	MEM

MCB CAMP LEJEUNE
UST MANAGEMENT PROGRAM
CALENDAR YEAR 2007

NAVFAC
Naval Facilities Engineering Command



LEGEND

Monitoring Wells
- Type I
- Type II
- Type III
- Pumping Well
- Unknown Well Type
- Water Supply Wells
- Above Ground Storage Tank
- Underground Storage Tank
- Railroad Tracks

Walls and Fences
- FENCE
- GATE
- WALL

Analytical Results
- Free Product Detected
- 2L Non-Compliant
- 2L Compliant
- EPA 602 Plume

- Buildings and Structures
- Demolished Structures
- Oil/Water Separators
- Slabs
- Roads
- Driveways
- Parking Lots
- Surface Water Bodies
- Creeks and Streams
- Historical Groundwater Flow Direction

Vegetation Cover
- Forestland
- Scrubland
- Wetland

Airfield Pavement
- HELIPAD
- RAMP
- RUNWAY
- SHLDR_OVERRUN
- TAXIWAY

NOTES

1. No EPA Method 602 compounds were detected above the 2L GWQS for any wells sampled during this monitoring event.
2. EPA Method 602 plume boundary based on extent of free product.

CATLIN
Engineers and Scientists

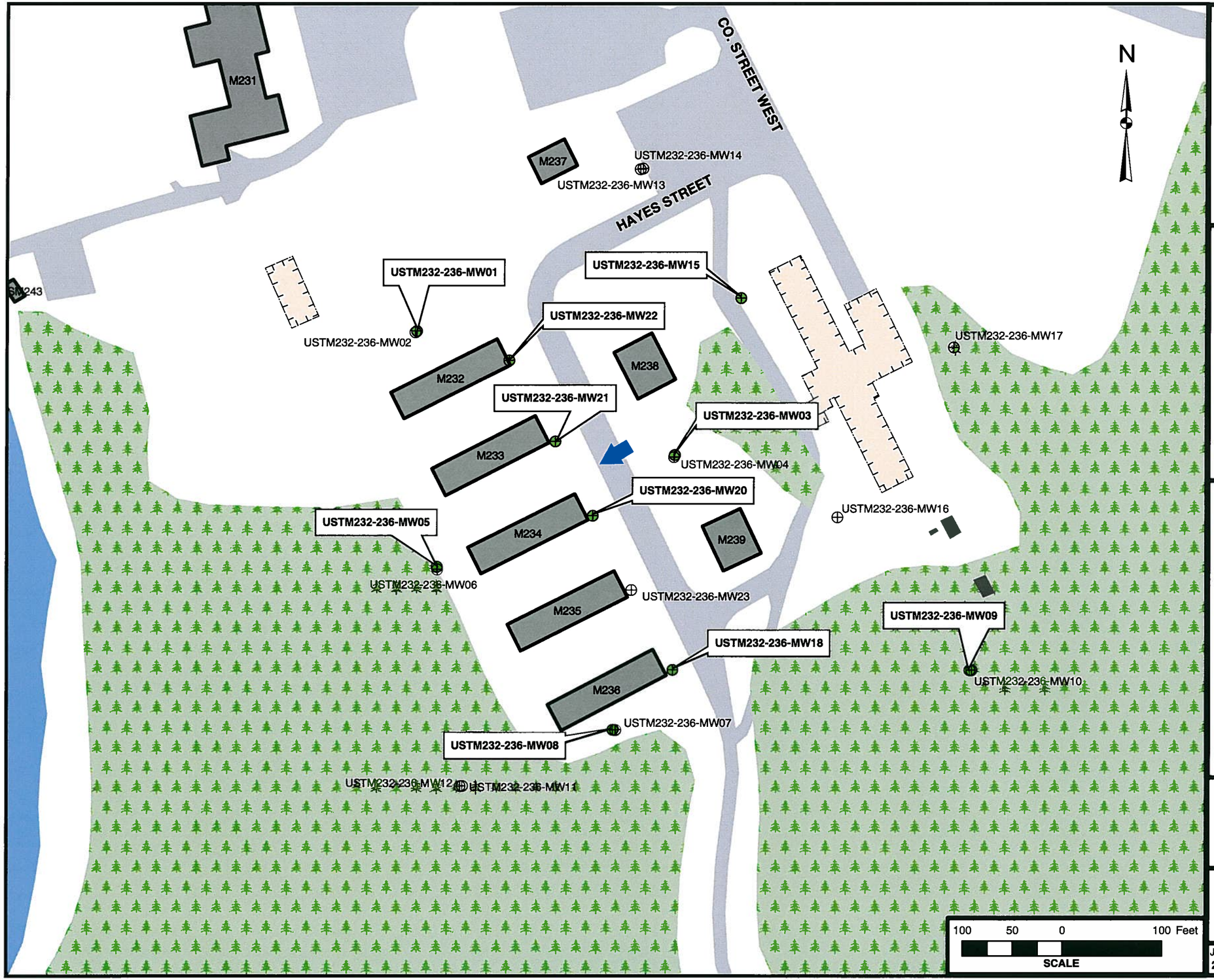
SITE M-232-236
EPA METHOD 602 COLORIMETRY AND PLUME IN EXCESS OF 2L
SECOND QUARTER 2007

FIGURE
26.2C

Job No.:	Date:	Scale:	Drawn By:	Checked By:
207-002	DEC 2007	AS SHOWN	SAC	MEM

MCB CAMP LEJEUNE
UST MANAGEMENT PROGRAM
CALENDAR YEAR 2007

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Naval Facilities Engineering Command



LEGEND

Monitoring Wells
- Type I
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- Pumping Well
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Walls and Fences
- FENCE
- GATE
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Analytical Results
- Free Product Detected
- 2L Non-Compliant
- 2L Compliant
- EPA 602 Plume
- Buildings and Structures
- Demolished Structures
- Oil/Water Separators
- Slabs
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Vegetation Cover
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Airfield Pavement
- HELIPAD
- RAMP
- RUNWAY
- SHLDR_OVERRUN
- TAXIWAY

NOTES

1. No EPA Method 602 compounds were detected above the 2L GWQS for any wells sampled during this monitoring event.

CATLIN
Engineers and Scientists

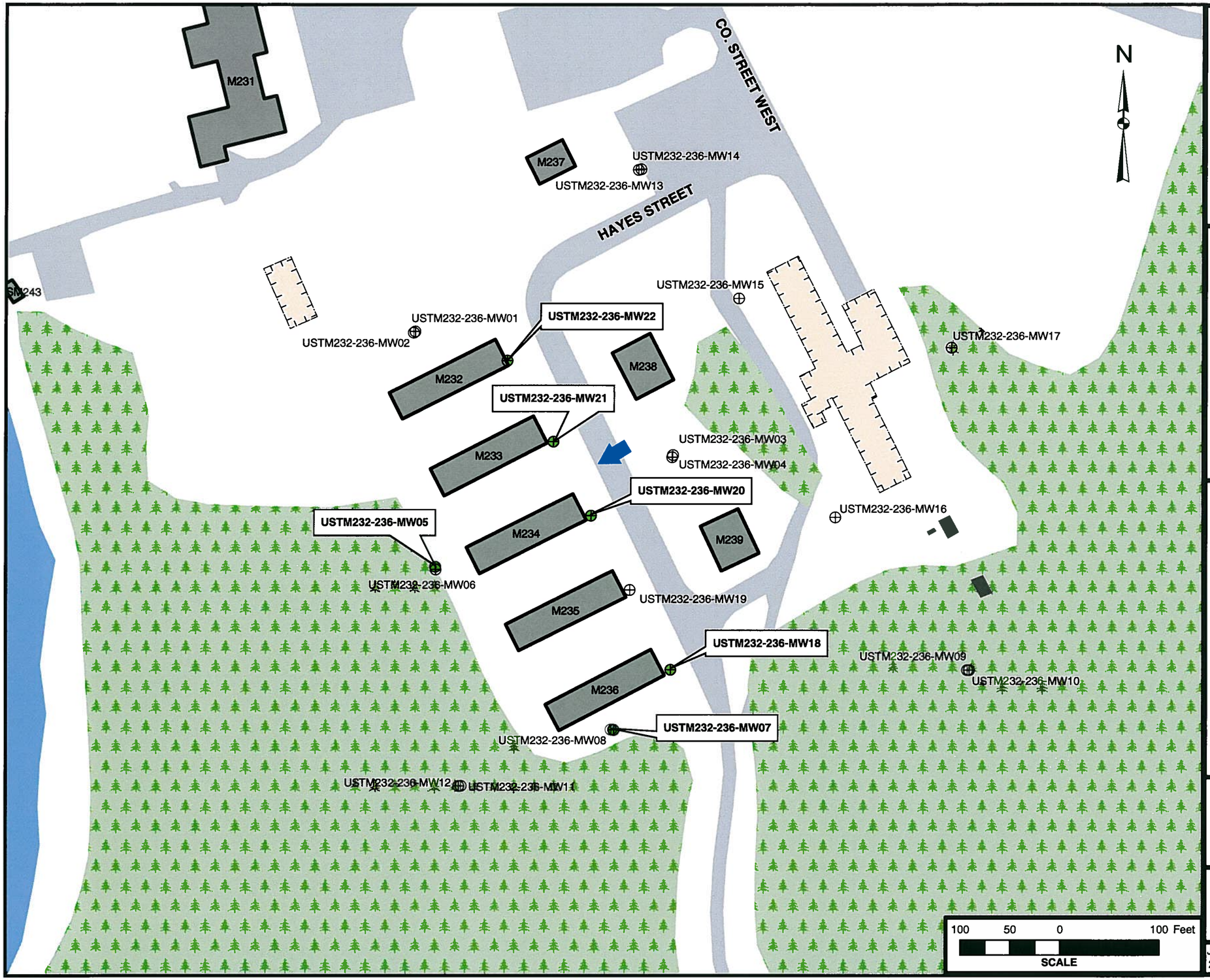
SITE M-232-236
EPA METHOD 602 COLORIMETRY AND PLUME IN EXCESS OF 2L
FOURTH QUARTER 2007

FIGURE
26.2D

Job No.:	Date:	Scale:	Drawn By:	Checked By:
207-002	JAN 2008	AS SHOWN	SAC	MEM

MCB CAMP LEJEUNE
UST MANAGEMENT PROGRAM
CALENDAR YEAR 2007

NAVFAC
Naval Facilities Engineering Command



LEGEND

Monitoring Wells
- Type I
- Type II
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- Pumping Well
- Unknown Well Type
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- Above Ground Storage Tank
- Underground Storage Tank
- Railroad Tracks

Walls and Fences
- FENCE
- GATE
- WALL

Analytical Results
- Free Product Detected
- 2L Non-Compliant
- 2L Compliant
- EPA 625 Plume
- Buildings and Structures
- Demolished Structures
- Oil/Water Separators
- Slabs
- Roads
- Driveways
- Parking Lots
- Surface Water Bodies
- Creeks and Streams
- Historical Groundwater Flow Direction

Vegetation Cover
- Forestland
- Scrubland
- Wetland

Airfield Pavement
- HELIPAD
- RAMP
- RUNWAY
- SHLDR_OVERRUN
- TAXIWAY

NOTES

1. No EPA Method 625 compounds were detected above the 2L GWQS for any wells sampled during this monitoring event.

CATLIN
Engineers and Scientists

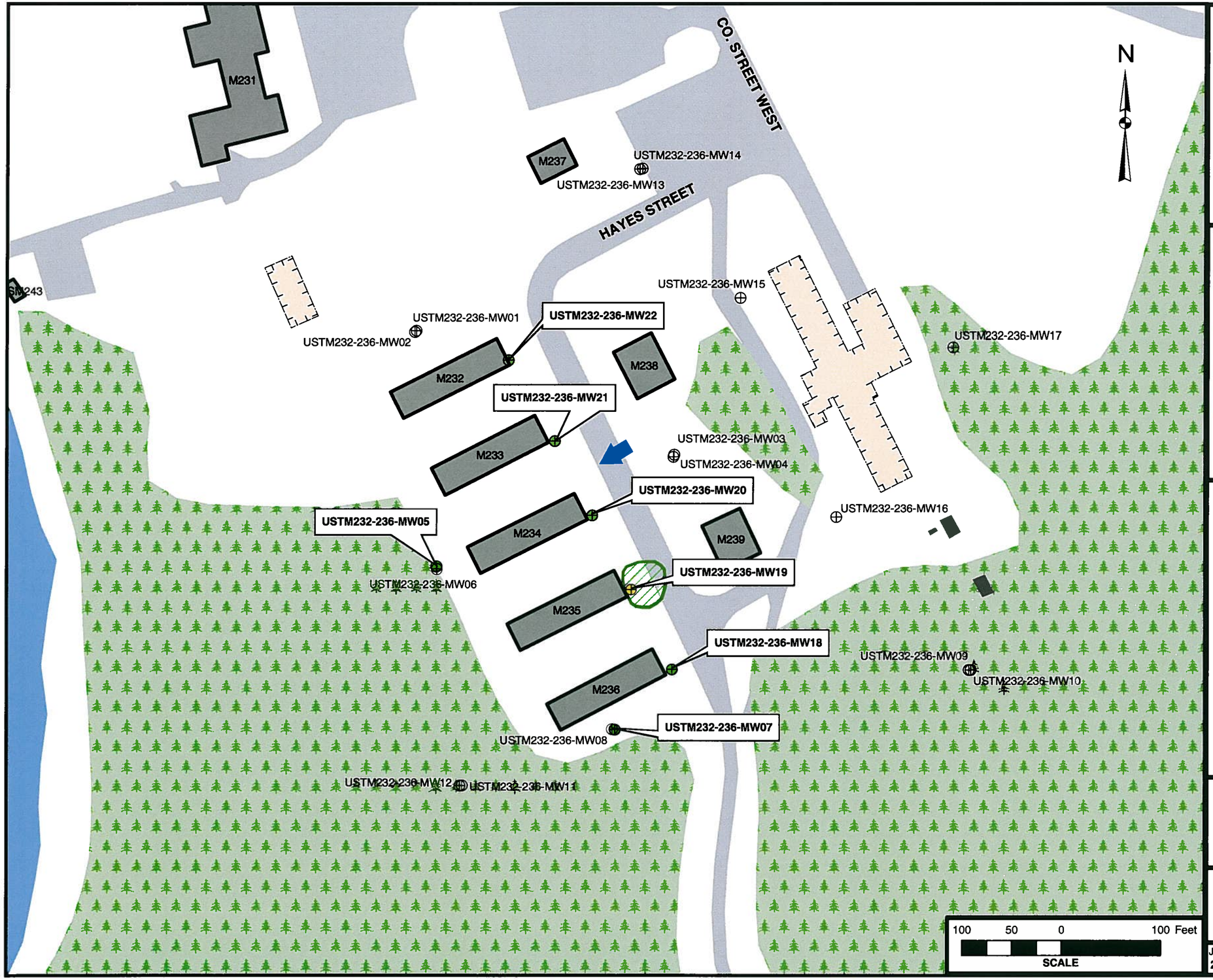
SITE M-232-236
EPA METHOD 625 COLORIMETRY AND PLUME IN EXCESS OF 2L
THIRD QUARTER 2006

FIGURE **26.3A**

Job No.:	Date:	Scale:	Drawn By:	Checked By:
207-002	DEC 2007	AS SHOWN	SAC	MEM

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UST MANAGEMENT PROGRAM
CALENDAR YEAR 2007

NAVFAC
Naval Facilities Engineering Command



LEGEND

Monitoring Wells
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Walls and Fences
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Analytical Results
- Free Product Detected
- 2L Non-Compliant
- 2L Compliant
- EPA 625 Plume
- Buildings and Structures
- Demolished Structures
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Vegetation Cover
- Forestland
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Airfield Pavement
- HELIPAD
- RAMP
- RUNWAY
- SHLDR_OVERRUN
- TAXIWAY

NOTES

1. No EPA Method 625 compounds were detected above the 2L GWQS for any wells sampled during this monitoring event.
2. EPA Method 625 plume boundary based on extent of free product.

CATLIN
Engineers and Scientists

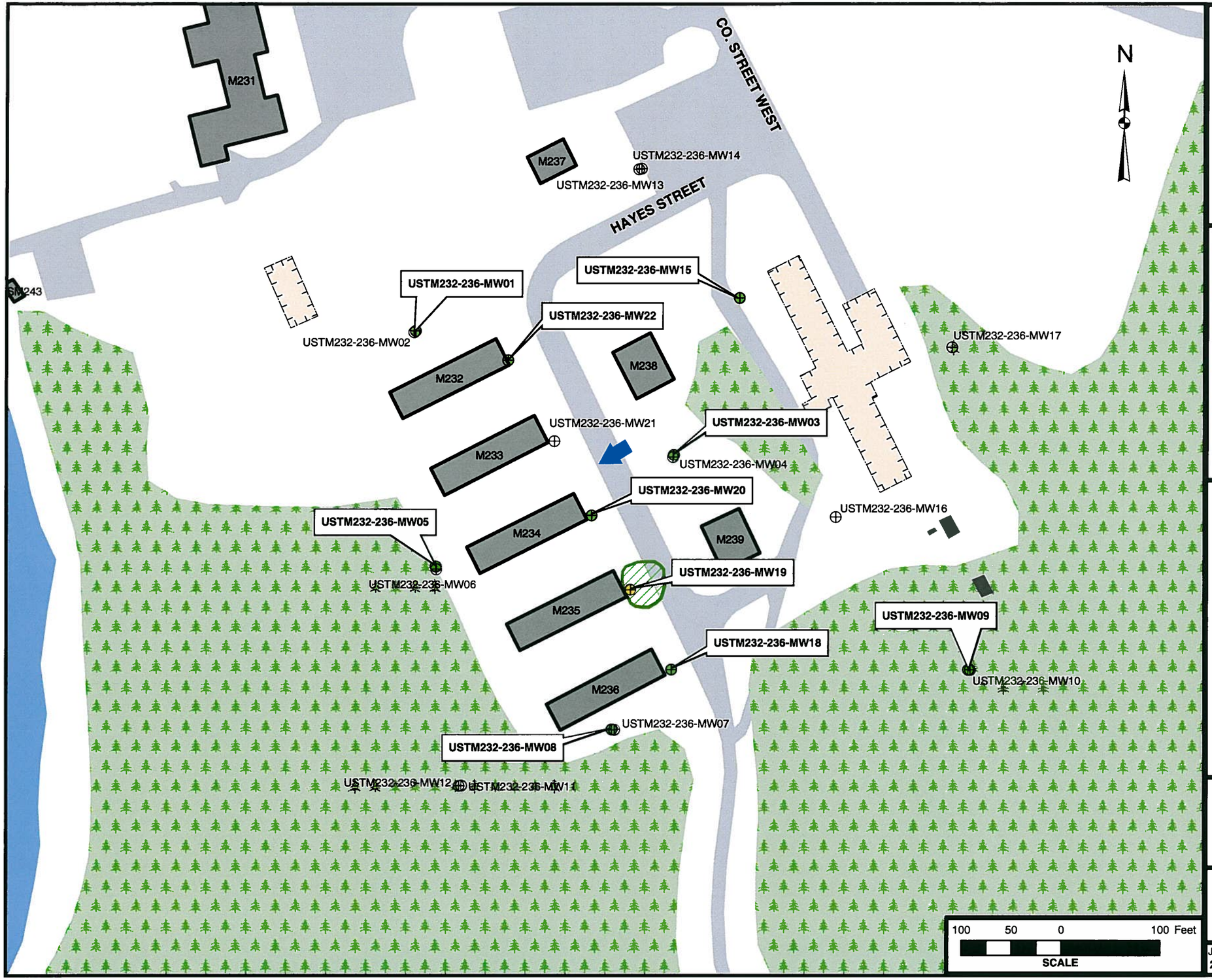
SITE M-232-236
EPA METHOD 625 COLORIMETRY AND PLUME IN EXCESS OF 2L
FIRST QUARTER 2007

FIGURE
26.3B

Job No.:	Date:	Scale:	Drawn By:	Checked By:
207-002	DEC 2007	AS SHOWN	SAC	MEM

MCB CAMP LEJEUNE
UST MANAGEMENT PROGRAM
CALENDAR YEAR 2007

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LEGEND

Monitoring Wells
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Walls and Fences
- FENCE
- GATE
- WALL

Analytical Results
- Free Product Detected
- 2L Non-Compliant
- 2L Compliant
- EPA 625 Plume

- Buildings and Structures
- Demolished Structures
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- Slabs
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Vegetation Cover
- Forestland
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- Wetland

Airfield Pavement
- HELIPAD
- RAMP
- RUNWAY
- SHLDR_OVERRUN
- TAXIWAY

NOTES

1. No EPA Method 625 compounds were detected above the 2L GWQS for any wells sampled during this monitoring event.
2. EPA Method 625 plume boundary based on extent of free product.

CATLIN
Engineers and Scientists

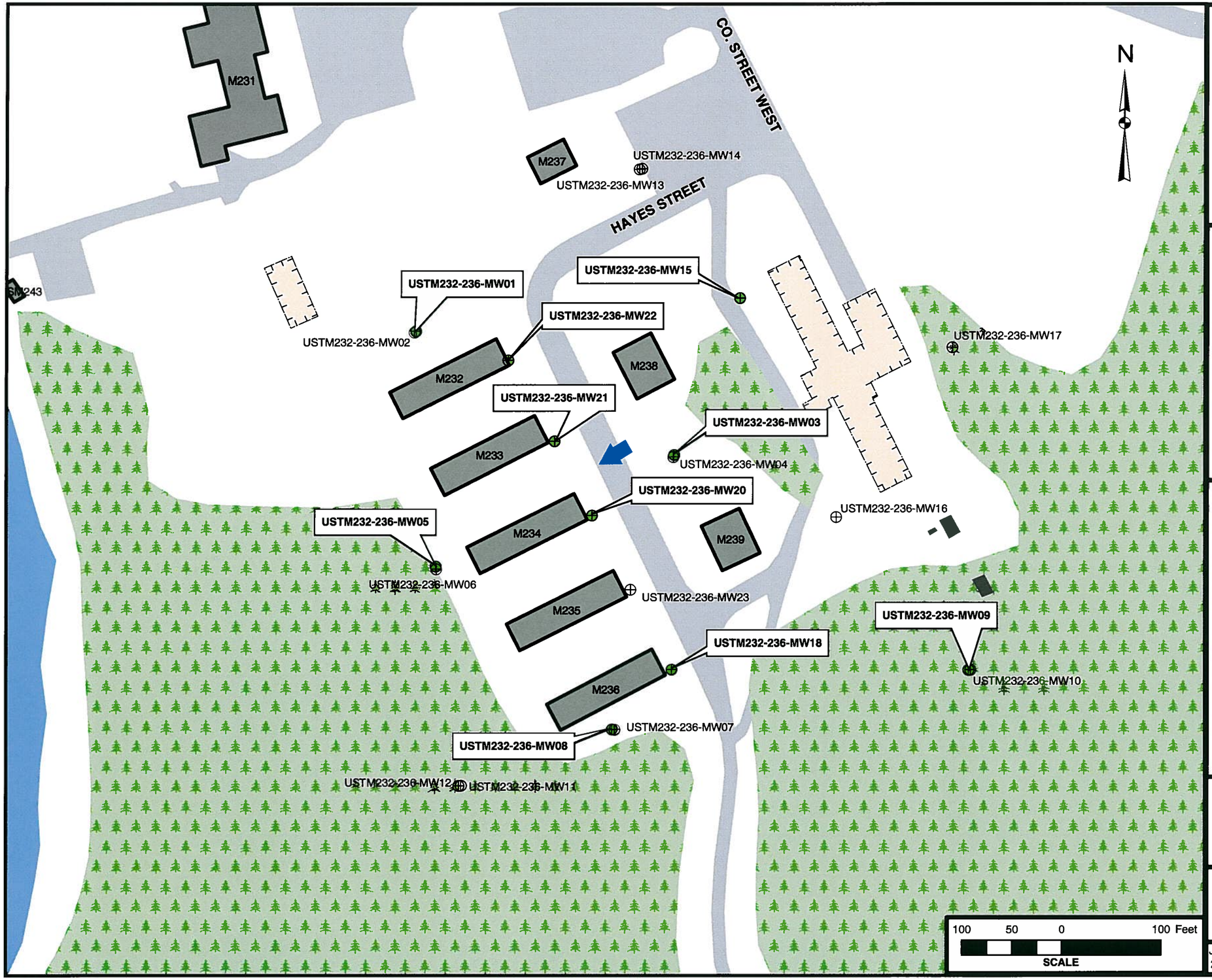
SITE M-232-236
EPA METHOD 625 COLORIMETRY AND PLUME IN EXCESS OF 2L
SECOND QUARTER 2007

FIGURE
26.3C

Job No.:	Date:	Scale:	Drawn By:	Checked By:
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MCB CAMP LEJEUNE
UST MANAGEMENT PROGRAM
CALENDAR YEAR 2007

NAVFAC
Naval Facilities Engineering Command



LEGEND

Monitoring Wells
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Walls and Fences
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Analytical Results
- Free Product Detected
- 2L Non-Compliant
- 2L Compliant
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NOTES

1. No EPA Method 625 compounds were detected above the 2L GWQS for any wells sampled during this monitoring event.

CATLIN
Engineers and Scientists

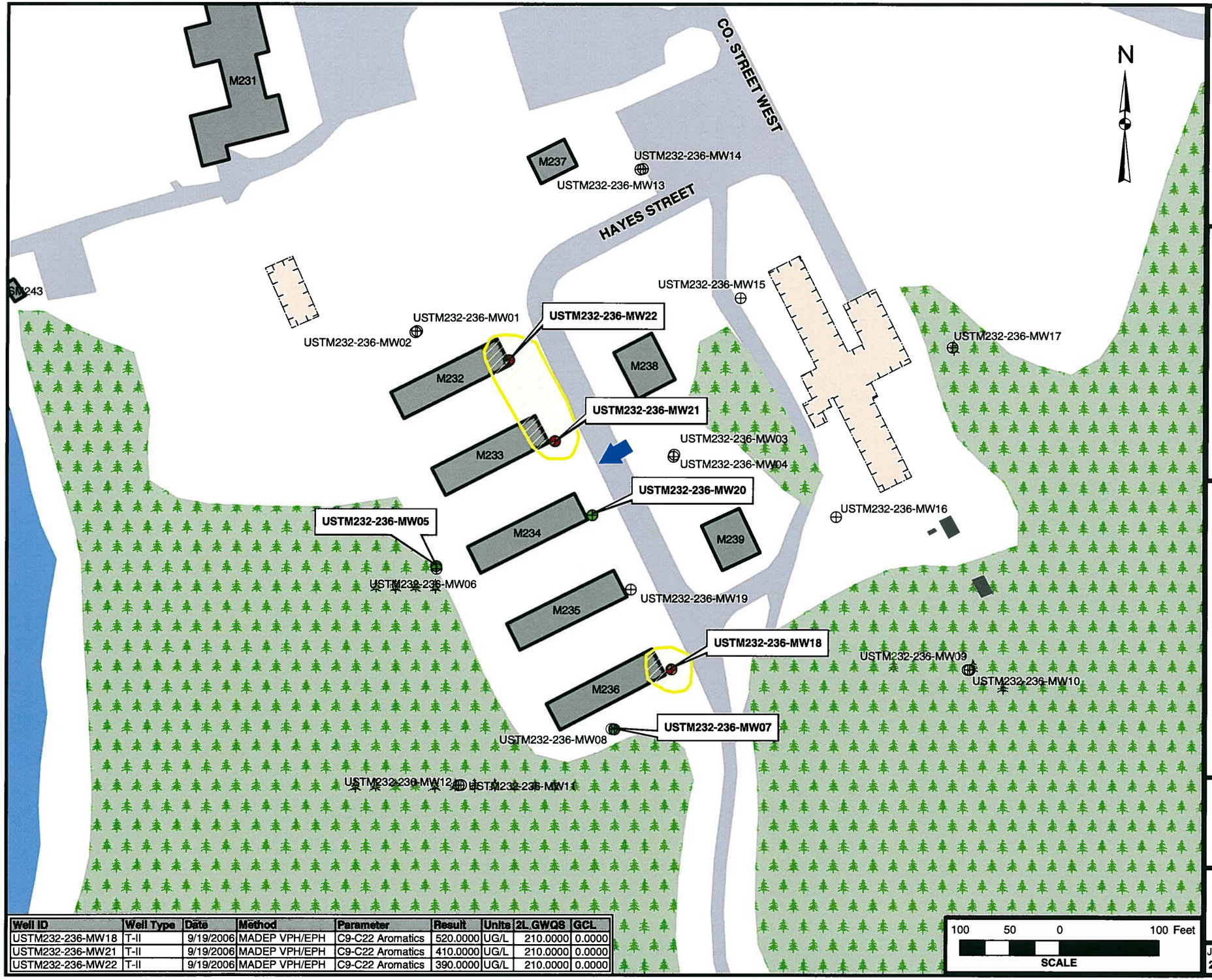
SITE M-232-236
EPA METHOD 625 COLORIMETRY AND PLUME IN EXCESS OF 2L
FOURTH QUARTER 2007

FIGURE **26.3D**

Job No.:	Date:	Scale:	Drawn By:	Checked By:
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UST MANAGEMENT PROGRAM
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LEGEND

Monitoring Wells
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- Pumping Well
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- Underground Storage Tank
- Railroad Tracks

Walls and Fences
- FENCE
- GATE
- WALL

Analytical Results
- Free Product Detected
- 2L Non-Compliant
- 2L Compliant
- MADEP Plume
- Buildings and Structures
- Demolished Structures
- Oil/Water Separators
- Slabs
- Roads
- Driveways
- Parking Lots
- Surface Water Bodies
- Creeks and Streams
- Historical Groundwater Flow Direction

Vegetation Cover
- Forestland
- Scrubland
- Wetland

Airfield Pavement
- HELIPAD
- RAMP
- RUNWAY
- SHLDR_OVERRUN
- TAXIWAY

NOTES

1. 2L Standard refers to North Carolina Groundwater Quality Standard 15A NCAC 2L.0202.
2. GCL refers to Gross Contaminant Level as defined in Table 9 of "Guidelines for Assessment and Corrective Action" North Carolina Underground Storage Tank Section, effective July 1, 2001.
3. A 2L Standard of "0.00" implies a standard has not yet been established. According to NCAC T15:02L, any compound found above laboratory detection limits is considered noncompliant unless otherwise specified by the NCDENR.

Well ID	Well Type	Date	Method	Parameter	Result	Units	2L GWQS	GCL
USTM232-236-MW18	T-II	9/19/2006	MADEP VPH/EPH	C9-C22 Aromatics	520.0000	UG/L	210.0000	0.0000
USTM232-236-MW21	T-II	9/19/2006	MADEP VPH/EPH	C9-C22 Aromatics	410.0000	UG/L	210.0000	0.0000
USTM232-236-MW22	T-II	9/19/2006	MADEP VPH/EPH	C9-C22 Aromatics	390.0000	UG/L	210.0000	0.0000

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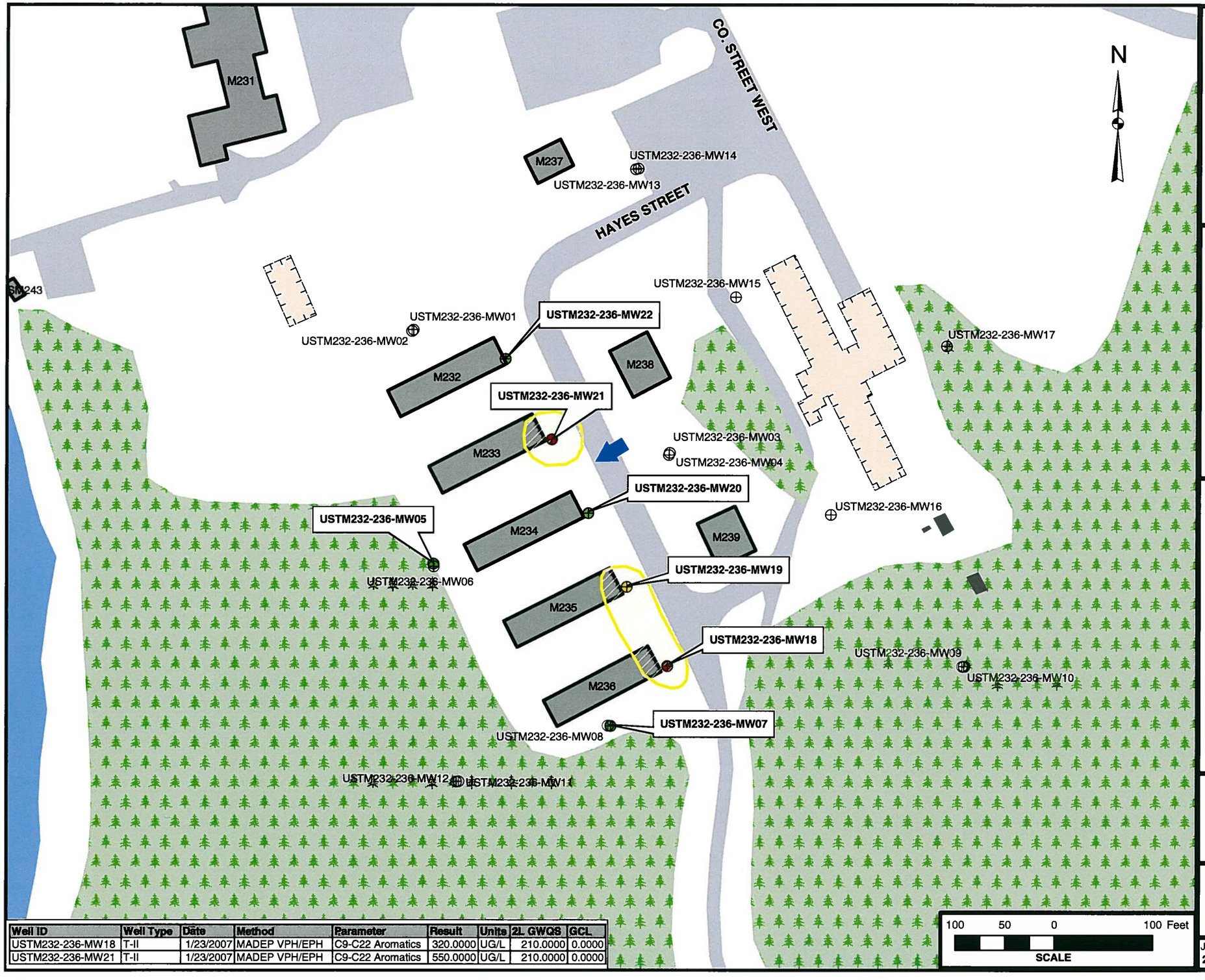
SITE M-232-236
MADEP VPH/EPH COLORIMETRY AND PLUME IN EXCESS OF 2L
THIRD QUARTER 2006

FIGURE
26.4A

Job No.:	Date:	Scale:	Drawn By:	Checked By:
207-002	DEC 2007	AS SHOWN	SAC	MEM

MCB CAMP LEJEUNE
UST MANAGEMENT PROGRAM
CALENDAR YEAR 2007

NAVFAC
Naval Facilities Engineering Command



LEGEND

Monitoring Wells
- Type I
- Type II
- Type III
- Pumping Well
- Unknown Well Type
- Water Supply Wells
- Above Ground Storage Tank
- Underground Storage Tank
- Railroad Tracks

Walls and Fences
- FENCE
- GATE
- WALL

Analytical Results
- Free Product Detected
- 2L Non-Compliant
- 2L Compliant
- MADEP Plume

- Buildings and Structures
- Demolished Structures
- Oil/Water Separators
- Slabs
- Roads
- Driveways
- Parking Lots
- Surface Water Bodies
- Creeks and Streams
- Historical Groundwater Flow Direction

Vegetation Cover
- Forestland
- Scrubland
- Wetland

Airfield Pavement
- HELIPAD
- RAMP
- RUNWAY
- SHLDR_OVERRUN
- TAXIWAY

NOTES

1. 2L Standard refers to North Carolina Groundwater Quality Standard 15A NCAC 2L.0202.
2. GCL refers to Gross Contaminant Level as defined in Table 9 of "Guidelines for Assessment and Corrective Action" North Carolina Underground Storage Tank Section, effective July 1, 2001.
3. A 2L Standard of "0.00" implies a standard has not yet been established. According to NCAC T15:02L, any compound found above laboratory detection limits is considered noncompliant unless otherwise specified by the NCDENR.

Well ID	Well Type	Date	Method	Parameter	Result	Units	2L GWQS	GCL
USTM232-236-MW18	T-II	1/23/2007	MADEP VPH/EPH	C9-C22 Aromatics	320.0000	UG/L	210.0000	0.0000
USTM232-236-MW21	T-II	1/23/2007	MADEP VPH/EPH	C9-C22 Aromatics	550.0000	UG/L	210.0000	0.0000

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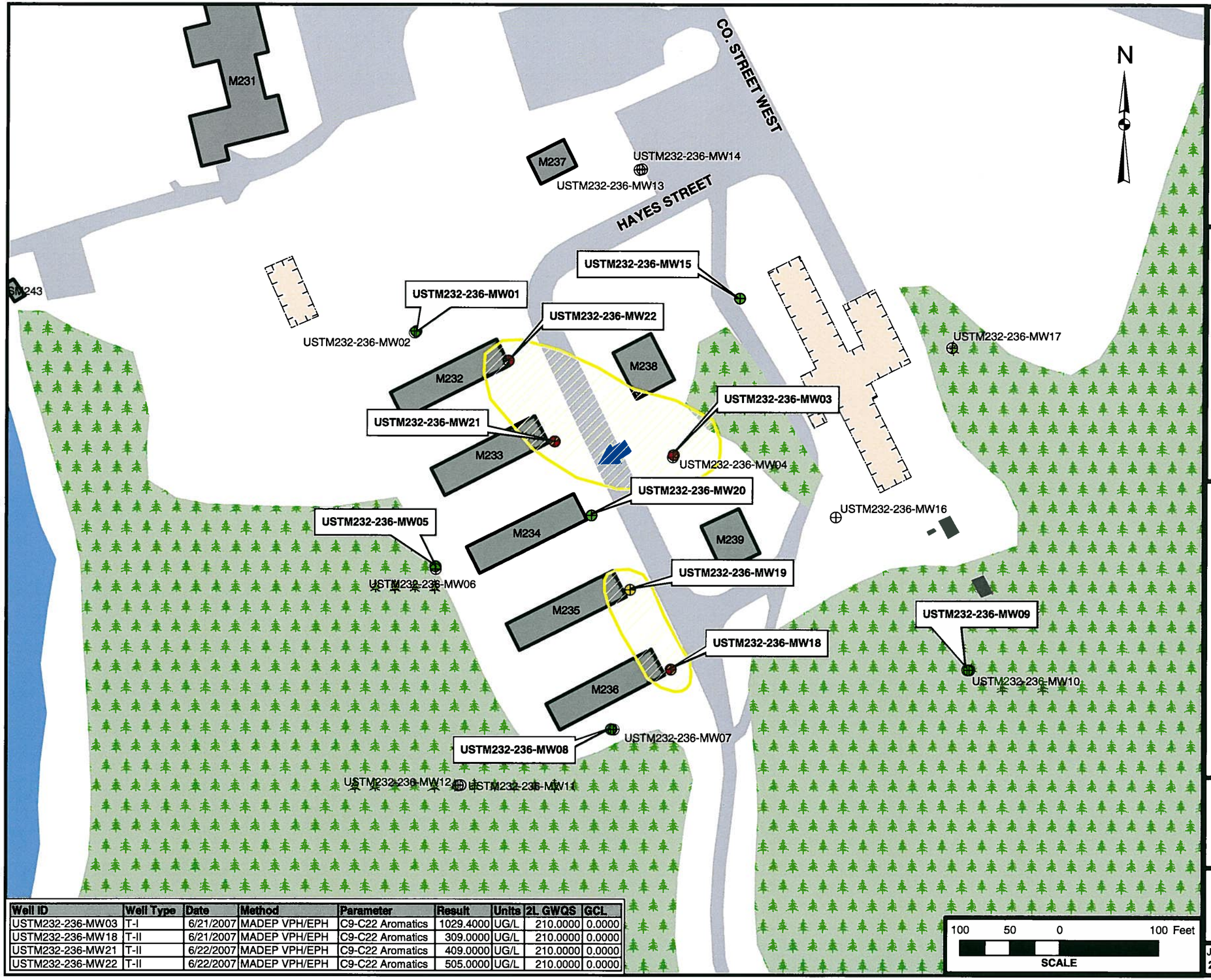
SITE M-232-236
MADEP VPH/EPH COLORIMETRY AND PLUME IN EXCESS OF 2L
FIRST QUARTER 2007

FIGURE **26.4B**

Job No.:	Date:	Scale:	Drawn By:	Checked By:
207-002	DEC 2007	AS SHOWN	SAC	MEM

MCB CAMP LEJEUNE
UST MANAGEMENT PROGRAM
CALENDAR YEAR 2007

NAVFAC
Naval Facilities Engineering Command



LEGEND

Monitoring Wells
- Type I
- Type II
- Type III
- Pumping Well
- Unknown Well Type
- Water Supply Wells
- Above Ground Storage Tank
- Underground Storage Tank
- Railroad Tracks

Walls and Fences
- FENCE
- GATE
- WALL

Analytical Results
- Free Product Detected
- 2L Non-Compliant
- 2L Compliant
- MADEP Plume

- Buildings and Structures
- Demolished Structures
- Oil/Water Separators
- Slabs
- Roads
- Driveways
- Parking Lots
- Surface Water Bodies
- Creeks and Streams
- Historical Groundwater Flow Direction

Vegetation Cover
- Forestland
- Scrubland
- Wetland

Airfield Pavement
- HELIPAD
- RAMP
- RUNWAY
- SHLDR_OVERRUN
- TAXIWAY

NOTES

1. 2L Standard refers to North Carolina Groundwater Quality Standard 15A NCAC 2L.0202.
2. GCL refers to Gross Contaminant Level as defined in Table 9 of "Guidelines for Assessment and Corrective Action" North Carolina Underground Storage Tank Section, effective July 1, 2001.
3. A 2L Standard of "0.00" implies a standard has not yet been established. According to NCAC T15:02L, any compound found above laboratory detection limits is considered noncompliant unless otherwise specified by the NCDENR.

Well ID	Well Type	Date	Method	Parameter	Result	Units	2L GWQS	GCL
USTM232-236-MW03	T-I	6/21/2007	MADEP VPH/EPH	C9-C22 Aromatics	1029.4000	UG/L	210.0000	0.0000
USTM232-236-MW18	T-II	6/21/2007	MADEP VPH/EPH	C9-C22 Aromatics	309.0000	UG/L	210.0000	0.0000
USTM232-236-MW21	T-II	6/22/2007	MADEP VPH/EPH	C9-C22 Aromatics	409.0000	UG/L	210.0000	0.0000
USTM232-236-MW22	T-II	6/22/2007	MADEP VPH/EPH	C9-C22 Aromatics	505.0000	UG/L	210.0000	0.0000

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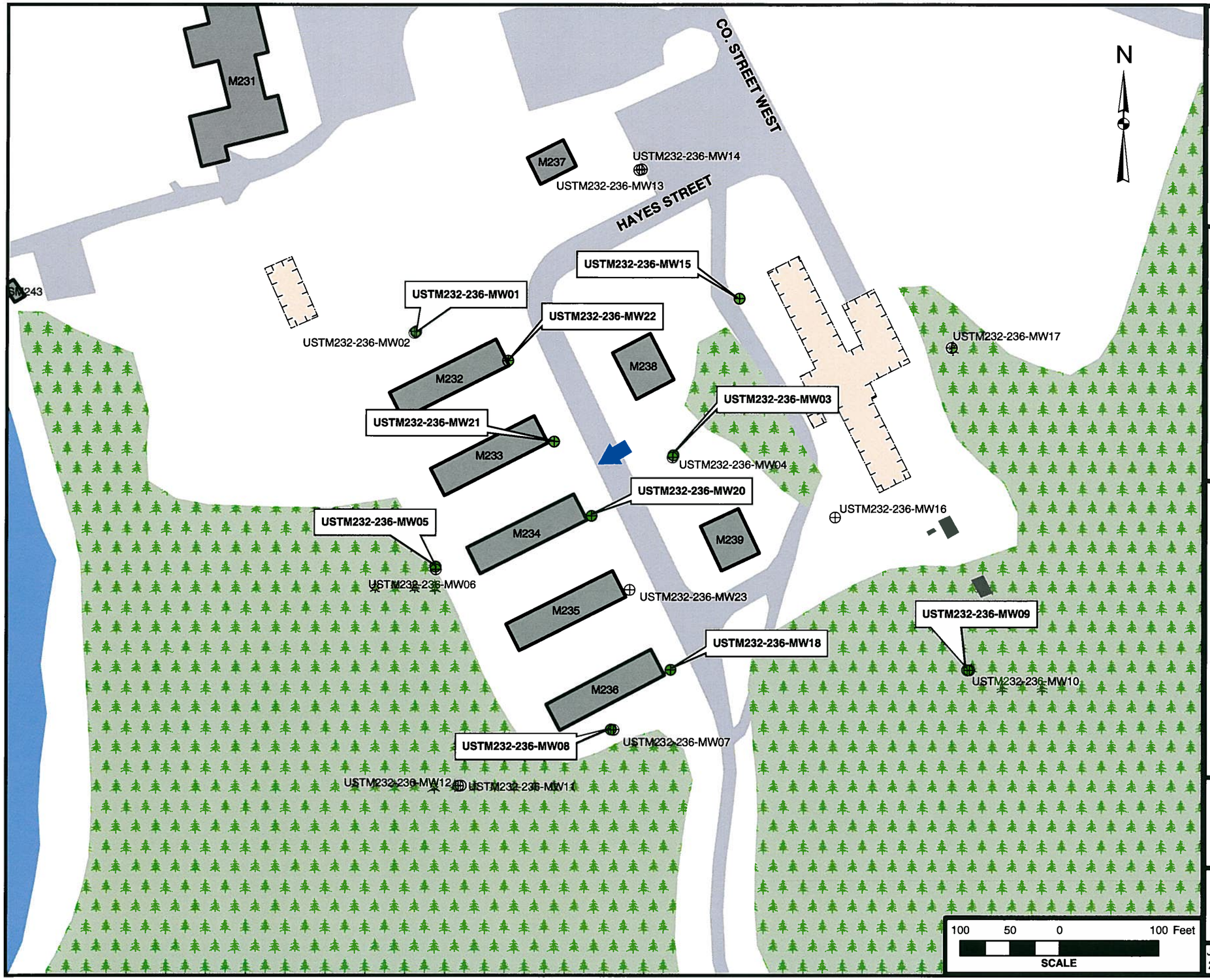
SITE M-232-236
MADEP VPH/EPH COLORIMETRY AND PLUME IN EXCESS OF 2L
SECOND QUARTER 2007

FIGURE
26.4C

Job No.:	Date:	Scale:	Drawn By:	Checked By:
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MCB CAMP LEJEUNE
UST MANAGEMENT PROGRAM
CALENDAR YEAR 2007

NAVFAC
Naval Facilities Engineering Command



LEGEND

Monitoring Wells
- Type I
- Type II
- Type III
- Pumping Well
- Unknown Well Type
- Water Supply Wells
- Above Ground Storage Tank
- Underground Storage Tank
- Railroad Tracks

Walls and Fences
- FENCE
- GATE
- WALL

Analytical Results
- Free Product Detected
- 2L Non-Compliant
- 2L Compliant
- MADEP Plume

- Buildings and Structures
- Demolished Structures
- Oil/Water Separators
- Slabs
- Roads
- Driveways
- Parking Lots
- Surface Water Bodies
- Creeks and Streams
- Historical Groundwater Flow Direction

Vegetation Cover
- Forestland
- Scrubland
- Wetland

Airfield Pavement
- HELIPAD
- RAMP
- RUNWAY
- SHLDR_OVERRUN
- TAXIWAY

NOTES

1. No MADEP VPH/EPH compounds were detected above the 2L GWQS for any wells sampled during this monitoring event.

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SITE M-232-236
MADEP VPH/EPH COLORIMETRY AND PLUME IN EXCESS OF 2L
FOURTH QUARTER 2007

FIGURE
26.4D

Job No.:	Date:	Scale:	Drawn By:	Checked By:
207-002	JAN 2008	AS SHOWN	SAC	MEM

SECTION 27.0

OF THE

ANNUAL MANAGEMENT REPORT
MCB CAMP LEJEUNE UST MANAGEMENT PROGRAM

MONITORING EVENT:

YEAR 2007
(JANUARY – DECEMBER 2007)

SITE-SPECIFIC MONITORING REPORT
FOR

SITE NH-100

NCDENR INCIDENT NO. 24416

27.0 EXECUTIVE SUMMARY
SITE NH-100

27.1 Site Information

27.1.1 Site Location: MCB Camp Lejeune
27.1.2 Incident Number(s): 24416, 21723
27.1.3 UTM Coordinates (WGS84) (Meters):
27.1.4 Risk Classification: Low
27.1.5 Land Use Classification: Industrial/Commercial
27.1.6 Source Type(s): Overflowing of #2 Fuel Oil UST (Surface Spill) and possible leaking from #2 Fuel Oil USTs (Tank Basin). Sizes and contents of UST system(s) from which the release occurred: Four 20,000 gallon #2 Fuel Oil USTs used to supply the boiler plant for the Naval Hospital.

27.2 Monitoring Event Information

27.2.1 Sampling Performed By: No sampling performed.
27.2.2 Date(s) of This Monitoring Event: No sampling performed during 2007.
27.2.3 Date(s) of Previous Monitoring Event: Previous sampling performed by CATLIN during Phase I LSA dated December 19, 2003.
27.2.4 Reason(s) for This Monitoring Event: Not Applicable.
27.2.5 Site Monitoring Status at Time of This Event: Site qualifies for NFA with LURs; however, CATLIN recommends that the site be re-sampled during the next monitoring period to determine if contaminant levels have naturally attenuated to below the Residential MSCCs.

27.3 Groundwater Hydraulics

27.3.1 Hydraulic Conductivity: Unknown.
27.3.2 Effective Porosity: Unknown.
27.3.3 Hydraulic Gradient: Unknown.
27.3.4 Average Linear Groundwater Flow Velocity: Unknown.
27.3.5 Groundwater Flow Direction: Unknown.
27.3.6 Range of Measured Water Table Elevations: Elevations not calculated; Phase I LSA groundwater DTW as measured in the monitoring wells ranged from 17.67 to 19.22 feet BLS.
27.3.7 Significant Changes from Previously Reported Data: Not Applicable. No data was collected during this monitoring period.

27.4 Free Product Plume

27.4.1 Free Product Present?: No.
27.4.2 Free Product Thickness Measured: Not Applicable.
27.4.3 Plume Size and Location: Not Applicable.
27.4.4 Free Product Removed from Site This Period: Not Applicable.
27.4.5 Significant Changes from Previously Reported Data: Not Applicable. No data was collected during this monitoring period.

27.5 Dissolved-Phase Plume

27.5.1 Plume Concentrations: Not Measured.
27.5.2 Plume Size and Location: Not Measured.
27.5.3 Significant Changes from Previously Reported Data: Not Applicable. This is the first Management Report prepared by CATLIN for this site. Groundwater analytical results collected during the 2003 CATLIN LSA are discussed as follows:

The groundwater samples obtained from monitoring wells USTNH100-MW01, USTNH100-MW02, and USTNH100-MW03 were sent for laboratory analysis via EPA Methods 602 + Xylenes, EPA Method 625 + TICs, and MADEP VPH/EPH. All target analytes were either below MDLs or below applicable 2L GWQSs and GCLs.

27.6 Potential Receptors

27.6.1 Contaminated Water Supply Well(s)?: No.
27.6.2 Potable Water Supply Well Within 1,000 Feet of Source Area?: No.
27.6.3 Any Water Supply Well Within 250 Feet of Source Area?: No.
27.6.4 Surface Water Body Within 500 Feet?: No.
27.6.5 Past Evidence of Vapors?: No.
27.6.6 Significant Changes from Previously Reported Data?: Not Applicable. This is the first Management Report prepared by CATLIN for this site.

27.7 Remediation

27.7.1 Status: Complete.
27.7.2 Type: Soil excavation at tank closure.
27.7.3 Progress: Complete.
27.7.4 Construction Contractor: J.A. Jones
27.7.5 Operating Contractor: Not Applicable

27.8 Observations and Comments

This site qualifies for NFA with a LUR via NCDENR email correspondence dated February 6, 2004. In the email, NCDENR specifically warned against development of the area for recreational use (i.e. a playground) as the land use classification is Industrial/Commercial. Since there is potential for development, CATLIN recommends resampling of noncompliant soil locations to assess contaminant attenuation. Of all the soil sampling performed during tank closure and the Phase I LSA, only one location

contains contamination above the Residential MSCC. Soil sample NH100-P-27 (15 feet BLS) contained a C_9-C_{22} Aromatics concentration of 470 mg/kg. This location should be resampled for MADEP constituents and the result compared to the Residential MSCC of 469 mg/kg. If concentrations are below the Residential standard, the site would qualify for NFA without a LUR.

Note - The compound 4-Isopropyltoluene, which has no established MSCCs, was detected in soil samples NH100-P-26, 31, 33, 35 and USTNH100-SB03 and 07; however, the detections can be compared to the C_9-C_{22} Aromatics MSCCs for regulatory compliance. No additional soil data should be required to show compliance.

SECTION 28.0

OF THE

ANNUAL MANAGEMENT REPORT
MCB CAMP LEJEUNE UST MANAGEMENT PROGRAM

MONITORING EVENT:

YEAR 2007
(JANUARY – DECEMBER 2007)

SITE-SPECIFIC MONITORING REPORT
FOR

SITE PP-3311

NCDENR INCIDENT NO. 24007

28.0 EXECUTIVE SUMMARY
SITE PP-3311

28.1 Site Information

28.1.1 Site Location: MCB Camp Lejeune, Paradise Point
28.1.2 Incident Number(s): 24007
28.1.3 UTM Coordinates (WGS84) (Meters): 283498.38 Easting, 3840447.32 Northing
28.1.4 Risk Classification: Low
28.1.5 Land Use Classification: Residential
28.1.6 Source Type(s): 285 gallon Fuel Oil UST

28.2 Monitoring Event Information

28.2.1 Sampling Performed By: CATLIN
28.2.2 Date(s) of This Monitoring Event: July 2007
28.2.3 Date(s) of Previous Monitoring Event: Previous groundwater sampling conducted in November 2004.
28.2.4 Reason(s) for This Monitoring Event: Determine if groundwater contaminants attenuated to concentrations below the 2L GWQSs.
28.2.5 Site Monitoring Status at Time of This Event: Site has been approved for NFA with LURs, however the subject site was re-sampled during this monitoring period to determine if contaminant levels had naturally attenuated to below the 2L GWQS.

28.3 Groundwater Hydraulics

28.3.1 Hydraulic Conductivity: Unknown
28.3.2 Effective Porosity: Unknown
28.3.3 Hydraulic Gradient: Unknown
28.3.4 Average Linear Groundwater Flow Velocity: Unknown
28.3.5 Groundwater Flow Direction: Unknown
28.3.6 Range of Measured Water Table Elevations: Not Measured. However, depth to groundwater from the temporary well installed in July 2007 was measured at approximately 5.6 feet BLS.
28.3.7 Significant Changes from Previously Reported Data: None

28.4 Free Product Plume

28.4.1 Free Product Present?: No
28.4.2 Free Product Thickness Measured: Not Measured
28.4.3 Plume Size and Location: Not Measured
28.4.4 Free Product Removed from Site This Period: None
28.4.5 Significant Changes from Previously Reported Data: None

28.5 Dissolved-Phase Plume

28.5.1 Plume Concentrations: See Figures 28.1 and 28.2
28.5.2 Plume Size and Location: See Figures 28.1 and 28.2
28.5.3 Significant Changes from Previously Reported Data: The groundwater sample analytical results from November 2004 as compared to the current analytical results (July 2007) are discussed as follows:

EPA Method 602

During the November 2004 sampling event; Benzene, Ethylbenzene and Naphthalene were reported at concentrations of <10 ug/L, 107 ug/L and 356 ug/L, respectively. All of these concentrations were in exceedance of the compound's respective 2L GWQS. During the current sampling event, only Naphthalene was detected at a concentration of 90.7 ug/L which is above the 2L GWQS of 21 ug/L for this compound. See Figure 28.1.

MADEP VPH/EPH

During the November 2004 sampling event, two MADEP fractions were detected at concentrations above the 2L GWQS. The C_9-C_{18} Aliphatics Hydrocarbon Fraction was reported at a concentration of 9,300 ug/L which was above the 2L GWQS of 4,200 ug/L for this compound. The C_9-C_{22} Aromatics Hydrocarbon Fraction was reported at a concentration of 9,550 ug/L which was above the 2L GWQS of 210 ug/L for this compound. During the current sampling event, the C_9-C_{22} Aromatics Hydrocarbon Fraction was reported at a concentration of 1,281 ug/L which was above the 2L GWQS of 210 ug/L for this compound. See Figure 28.2.

28.6 Potential Receptors

28.6.1 Contaminated Water Supply Well(s)?: No
28.6.2 Potable Water Supply Well Within 1,000 Feet of Source Area?: No
28.6.3 Any Water Supply Well Within 250 Feet of Source Area?: No
28.6.4 Surface Water Body Within 500 Feet?: No
28.6.5 Past Evidence of Vapors?: No
28.6.6 Significant Changes from Previously Reported Data?: None

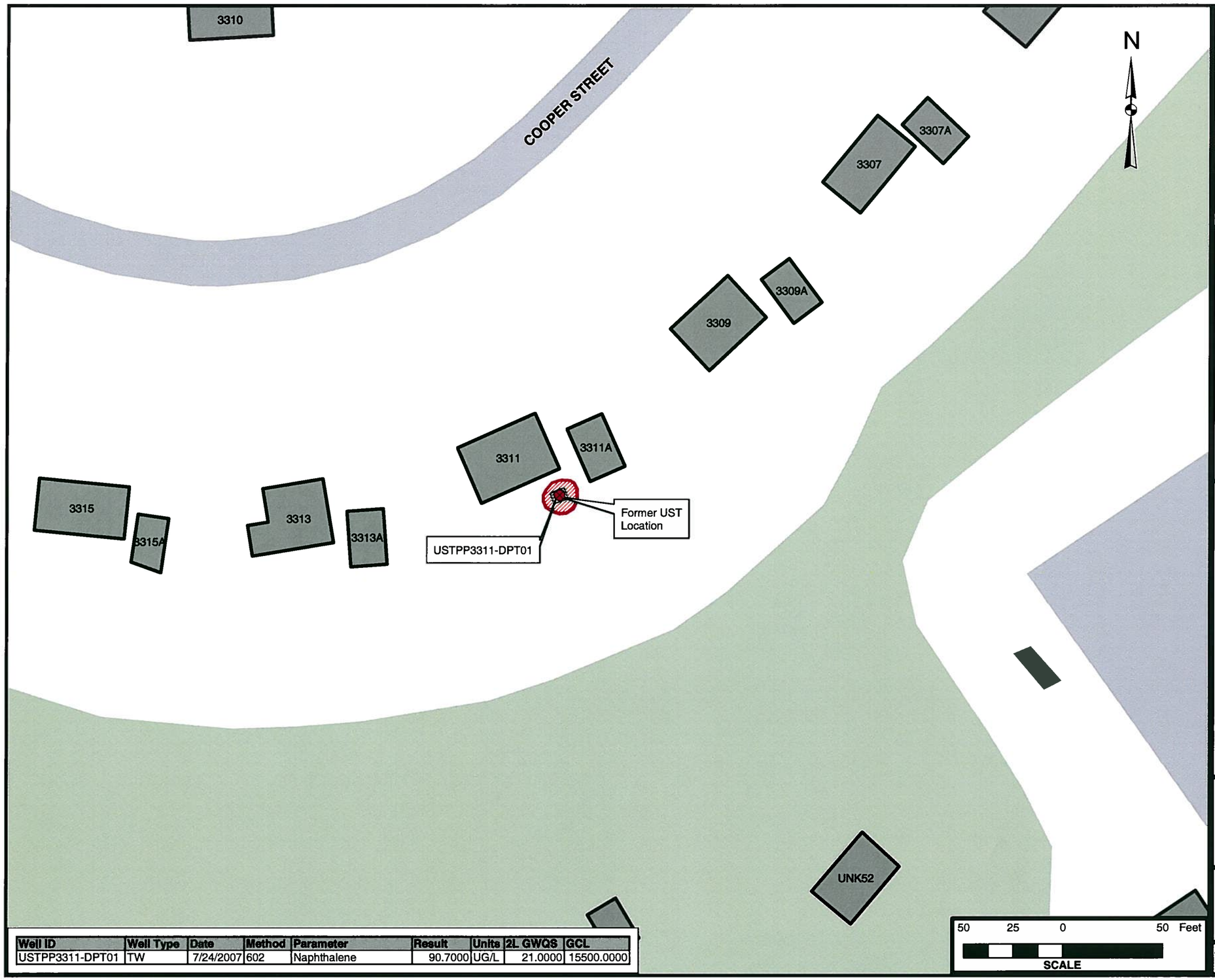
28.7 Remediation

28.7.1 Status: Complete
28.7.2 Type: Soil Excavation
28.7.3 Progress: Complete
28.7.4 Construction Contractor: J. A. Jones
28.7.5 Operating Contractor: None

28.8 Observations and Comments

The Naphthalene and C_9-C_{22} Aromatic concentrations previously detected in groundwater around the former UST at PP-3311 have not naturally attenuated to below the corresponding 2L GWQSs. Also research of historical information revealed there was a detection of 2-Methylnaphthalene in 2002 above the Residential MSCC in soil

sample, CC-3311-3, and this needs to be addressed. Current soil and groundwater contaminant concentrations continue to prevent the site from qualifying for NFA without a LUR. CATLIN recommends resampling the soil at the previous location of CC-3311-3 per EPA Method 8270 analysis. Also the groundwater at the subject site should be resampled in approximately two years per EPA Method 610 and MADEP VPH/EPH.



Well ID	Well Type	Date	Method	Parameter	Result	Units	2L GWQS	GCL
USTPP3311-DPT01	TW	7/24/2007	602	Naphthalene	90.7000	UG/L	21.0000	15500.0000

MCB CAMP LEJEUNE
UST MANAGEMENT PROGRAM
CALENDAR YEAR 2007

NAVFAC
Naval Facilities Engineering Command

LEGEND

- Proposed DPT Well
- Water Supply Wells
- Above Ground Storage Tank
- Underground Storage Tank
- Railroad Tracks

Walls and Fences
- FENCE
- GATE
- WALL

Analytical Results
- 2L Non-Compliant
- 2L Compliant
- EPA 602 Plume
- Buildings and Structures
- Demolished Structures
- Oil/Water Separators
- Slabs
- Roads
- Driveways
- Parking Lots
- Surface Water Bodies
- Creeks and Streams

Vegetation Cover
- Forestland
- Scrubland
- Wetland

Airfield Pavement
- HELIPAD
- RAMP
- RUNWAY
- SHLDR_OVERRUN
- TAXIWAY

NOTES

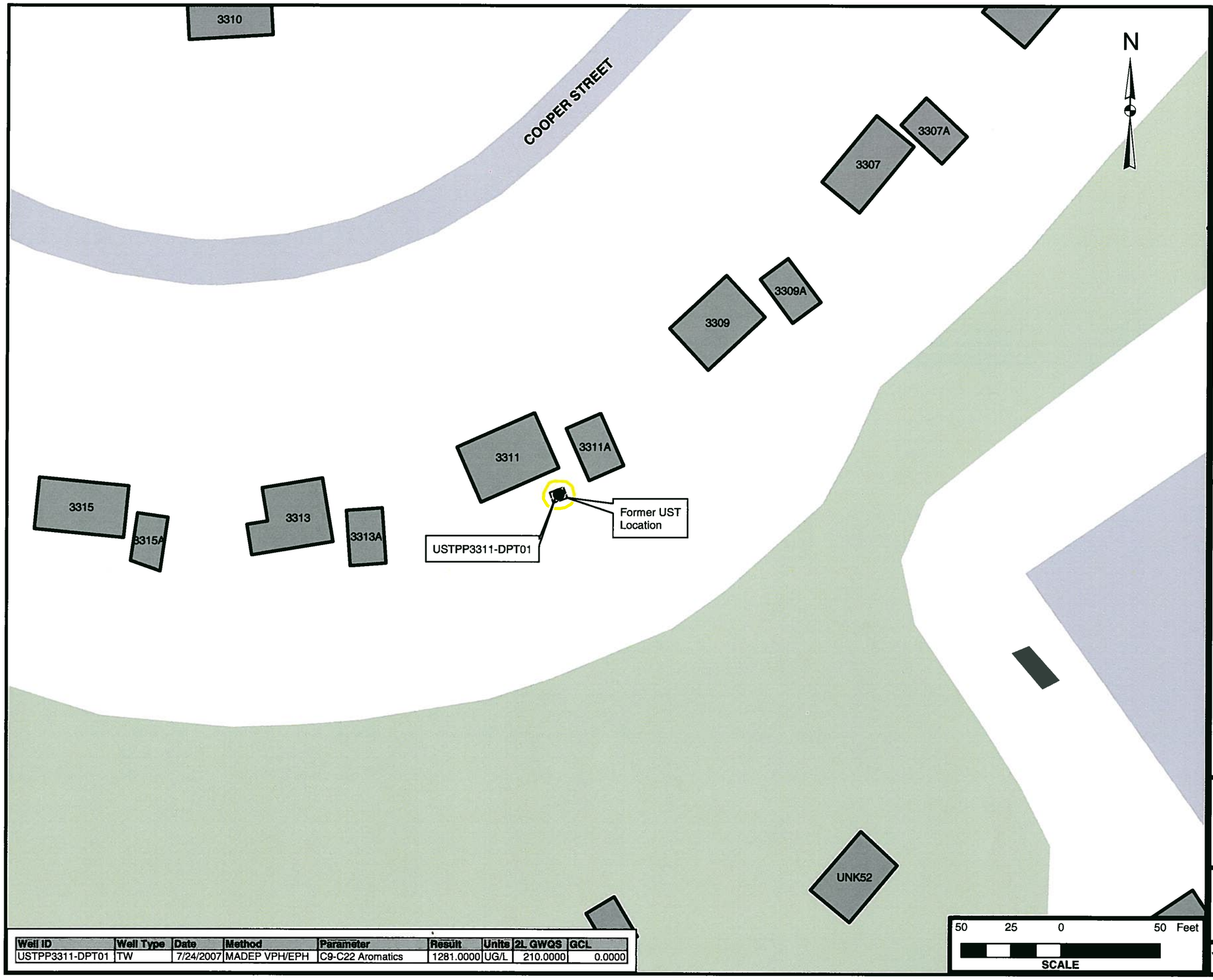
1. 2L Standard refers to North Carolina Groundwater Quality Standard 15A NCAC 2L.0202.
2. GCL refers to Gross Contaminant Level as defined in "Guidelines for the Assessment and Corrective Action" North Carolina Underground Storage Tank Section, effective July 1, 2001.
3. A 2L Standard of "0.00" implies a standard has not yet been established. According to NCAC T15:02L, any compound found above laboratory detection limits is considered noncompliant unless otherwise specified by the NCDENR.

CATLIN
Engineers and Scientists

SITE PP-3311
EPA METHOD 602 COLORIMETRY AND PLUME IN EXCESS OF 2L - THRID QUARTER 2007

FIGURE
28.1

Job No.:	Date:	Scale:	Drawn By:	Checked By:
207-002	JAN 2008	AS SHOWN	KAWS	MEM



Well ID	Well Type	Date	Method	Parameter	Result	Units	2L GWQS	GCL
USTPP3311-DPT01	TW	7/24/2007	MADEP VPH/EPH	C9-C22 Aromatics	1281.0000	UG/L	210.0000	0.0000

MCB CAMP LEJEUNE
UST MANAGEMENT PROGRAM
CALENDAR YEAR 2007

NAVFAC
Naval Facilities Engineering Command

LEGEND

- Proposed DPT Well
- Water Supply Wells
- Above Ground Storage Tank
- Underground Storage Tank
- Railroad Tracks

Walls and Fences
- FENCE
- GATE
- WALL

Analytical Results
- 2L Non-Compliant
- 2L Compliant
- MADEP Plume
- Buildings and Structures
- Demolished Structures
- Oil/Water Separators
- Slabs
- Roads
- Driveways
- Parking Lots
- Surface Water Bodies
- Creeks and Streams

Vegetation Cover
- Forestland
- Scrubland
- Wetland

Airfield Pavement
- HELIPAD
- RAMP
- RUNWAY
- SHLDR_OVERRUN
- TAXIWAY

NOTES

1. 2L Standard refers to North Carolina Groundwater Quality Standard 15A NCAC 2L.0202.
2. GCL refers to Gross Contaminant Level as defined in "Guidelines for the Assessment and Corrective Action" North Carolina Underground Storage Tank Section, effective July 1, 2001.
3. A 2L Standard of "0.00" implies a standard has not yet been established. According to NCAC T15:02L, any compound found above laboratory detection limits is considered noncompliant unless otherwise specified by the NCDENR.

CATLIN
Engineers and Scientists

SITE PP-3311
MADEP VPH/EPH COLORIMETRY AND PLUME IN EXCESS OF 2L - THRID QUARTER 2007

FIGURE **28.2**

Job No.:	Date:	Scale:	Drawn By:	Checked By:
207-002	JAN 2008	AS SHOWN	KAWS	MEM

SECTION 29.0

OF THE

ANNUAL MANAGEMENT REPORT
MCB CAMP LEJEUNE UST MANAGEMENT PROGRAM

MONITORING EVENT:

YEAR 2007
(JANUARY – DECEMBER 2007)

SITE-SPECIFIC MONITORING REPORT
FOR

SITE PP-3322

NCDENR INCIDENT NO. 24008

29.0 EXECUTIVE SUMMARY
SITE PP-3322

29.1 Site Information

29.1.1 Site Location: MCB Camp Lejeune, Paradise Point
29.1.2 Incident Number(s): 24008
29.1.3 UTM Coordinates (WGS84) (Meters): 283256.74 Easting, 3840565.41 Northing
29.1.4 Risk Classification: Low
29.1.5 Land Use Classification: Residential
29.1.6 Source Type(s): 285 gallon Heating Oil UST

29.2 Monitoring Event Information

29.2.1 Sampling Performed By: CATLIN
29.2.2 Date(s) of This Monitoring Event: July 2007
29.2.3 Date(s) of Previous Monitoring Event: Previous groundwater sampling conducted in November 2004.
29.2.4 Reason(s) for This Monitoring Event: Determine if groundwater contaminants attenuated to concentrations below the 2L GWQSs.
29.2.5 Site Monitoring Status at Time of This Event: Site has been approved for NFA with LURs, however the subject site was re-sampled during this monitoring period to determine if contaminant levels had naturally attenuated to below the 2L GWQS.

29.3 Groundwater Hydraulics

29.3.1 Hydraulic Conductivity: Unknown
29.3.2 Effective Porosity: Unknown
29.3.3 Hydraulic Gradient: Unknown
29.3.4 Average Linear Groundwater Flow Velocity: Unknown
29.3.5 Groundwater Flow Direction: Unknown
29.3.6 Range of Measured Water Table Elevations: Not Measured. However, depth to groundwater from the temporary well installed in July 2007 was measured at approximately 4.1 feet BLS.
29.3.7 Significant Changes from Previously Reported Data: None

29.4 Free Product Plume

29.4.1 Free Product Present?: No
29.4.2 Free Product Thickness Measured: Not Measured
29.4.3 Plume Size and Location: Not Measured
29.4.4 Free Product Removed from Site This Period: None
29.4.5 Significant Changes from Previously Reported Data: None

29.5 Dissolved-Phase Plume

29.5.1 Plume Concentrations: See Figures 29.1 and 29.2
29.5.2 Plume Size and Location: See Figures 29.1 and 29.2
29.5.3 Significant Changes from Previously Reported Data: The groundwater sample analytical results from November 2004 as compared to the current analytical results (July 2007) are discussed as follows:

EPA Method 602

During the November 2004 sampling event, Naphthalene was the only EPA Method 602 compound detected above the 2L GWQS. This compound was revealed at a concentration 29.7 ug/L, which is in excess of the 2L GWQS for this compound of 21 ug/L. During the current sampling event no EPA Method 602 compounds were detected at concentrations in excess of the 2L GWQSs. See Figure 29.1.

MADEP VPH/EPH

During the November 2004 sampling event, the C_{11}-C_{22} Aromatics Hydrocarbon Fraction was reported at a concentration of 250 ug/L which is above the 2L GWQS of 210 ug/L for the combined C_9-C_{22} Aromatics Hydrocarbon Fraction. During the current sampling event no MADEP compounds were detected at concentrations in excess of the 2L GWQSs. See Figure 29.2.

29.6 Potential Receptors

29.6.1 Contaminated Water Supply Well(s)?: None
29.6.2 Potable Water Supply Well Within 1,000 Feet of Source Area?: No
29.6.3 Any Water Supply Well Within 250 Feet of Source Area?: No
29.6.4 Surface Water Body Within 500 Feet?: No
29.6.5 Past Evidence of Vapors?: No
29.6.6 Significant Changes from Previously Reported Data?: None

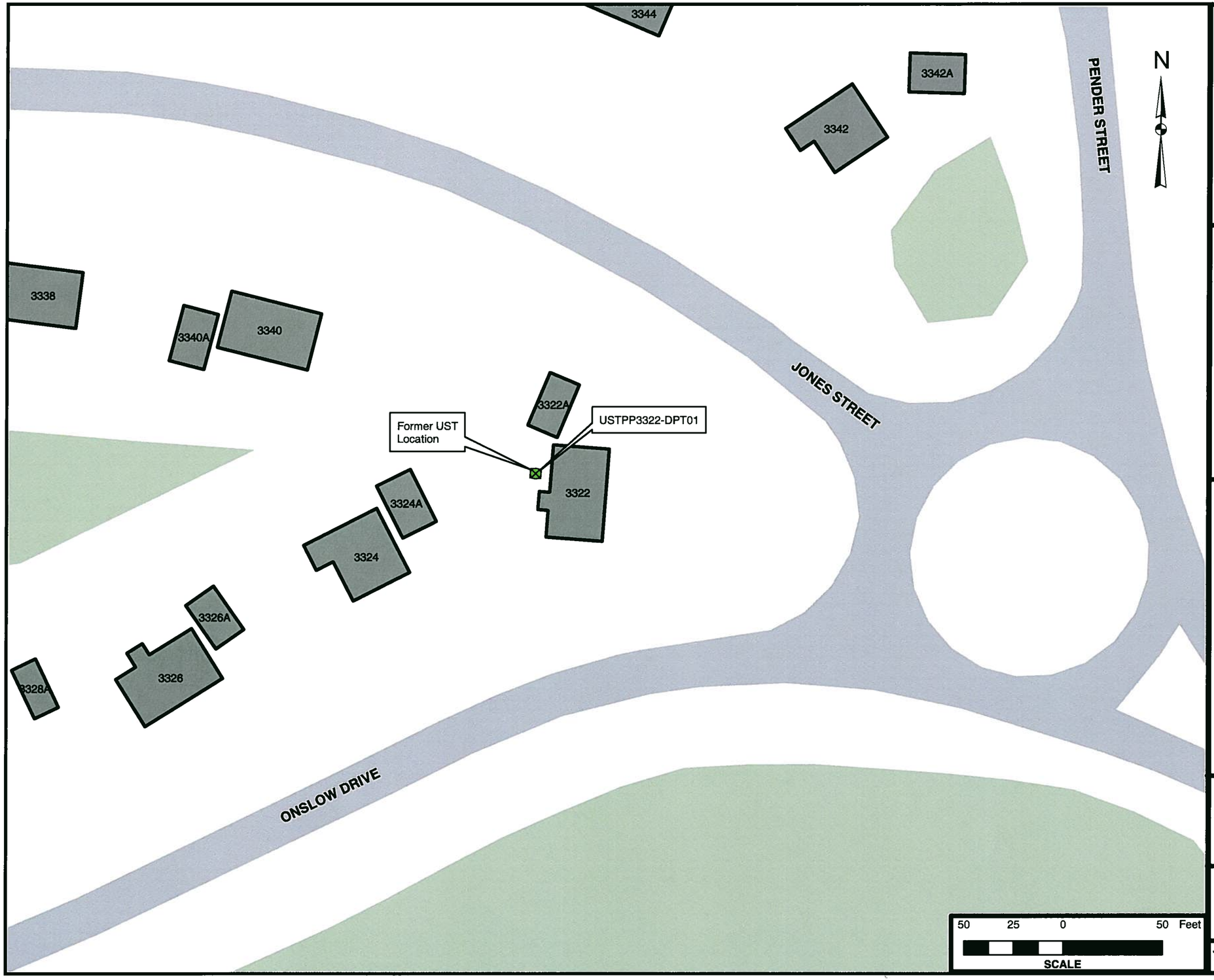
29.7 Remediation

29.7.1 Status: Complete
29.7.2 Type: Soil Excavation
29.7.3 Progress: Complete
29.7.4 Construction Contractor: J.A. Jones
29.7.5 Operating Contractor: None

29.8 Observations and Comments

Groundwater sampling results of this investigation indicate that previously detected groundwater contaminant concentrations (Naphthalene and C_9-C_{22} Aromatics) have naturally attenuated to below 2L GWQSs.

The July 2007 analytical results were submitted to the NCDENR by CATLIN in a Report of Findings with Site Closure Request. In a November 26, 2007 letter from the NCDENR – UST Section, NFA was granted for the subject site.



MCB CAMP LEJEUNE
UST MANAGEMENT PROGRAM
CALENDAR YEAR 2007

NAVFAC
Naval Facilities Engineering Command

LEGEND

- Proposed DPT Well
- Water Supply Wells
- Above Ground Storage Tank
- Underground Storage Tank
- Railroad Tracks

Walls and Fences
- FENCE
- GATE
- WALL

Analytical Results
- 2L Non-Compliant
- 2L Compliant
- EPA 602 Plume
- Buildings and Structures
- Demolished Structures
- Oil/Water Separators
- Slabs
- Roads
- Driveways
- Parking Lots
- Surface Water Bodies
- Creeks and Streams

Vegetation Cover
- Forestland
- Scrubland
- Wetland

Airfield Pavement
- HELIPAD
- RAMP
- RUNWAY
- SHLDR_OVERRUN
- TAXIWAY

NOTES

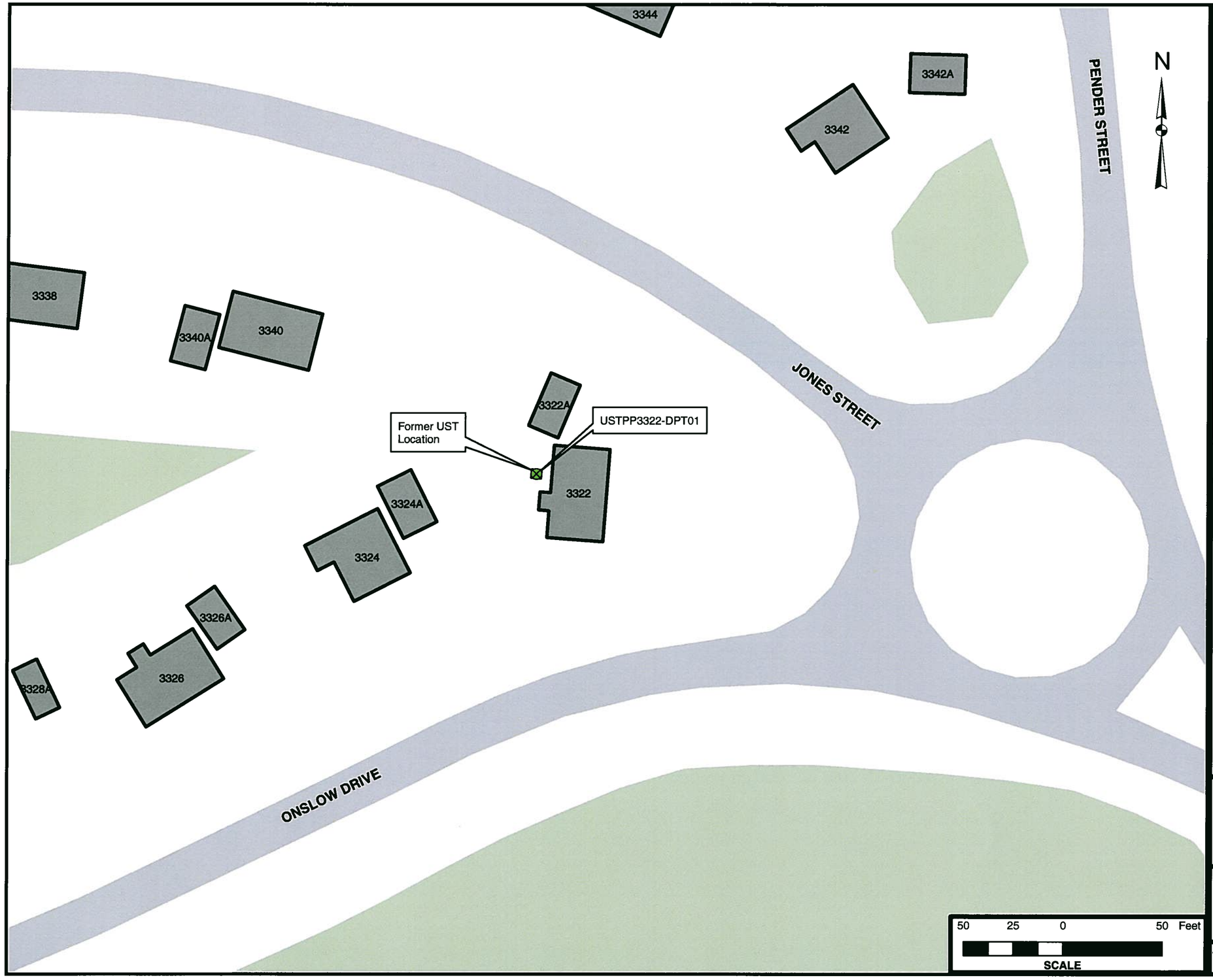
1. No EPA 602 compounds were detected above the 2L GWQS for any wells sampled during this monitoring event.

CATLIN
Engineers and Scientists

SITE PP-3322
EPA METHOD 602 COLORIMETRY AND PLUME IN EXCESS OF 2L - THIRD QUARTER 2007

FIGURE **29.1**

Job No.:	Date:	Scale:	Drawn By:	Checked By:
207-002	JAN 2008	AS SHOWN	KAWS	MEM



MCB CAMP LEJEUNE
UST MANAGEMENT PROGRAM
CALENDAR YEAR 2007

NAVFAC
Naval Facilities Engineering Command

LEGEND

- Proposed DPT Well
- Water Supply Wells
- Above Ground Storage Tank
- Underground Storage Tank
- Railroad Tracks

Walls and Fences

- FENCE
- GATE
- WALL

Analytical Results

- 2L Non-Compliant
- 2L Compliant
- MADEP Plume
- Buildings and Structures
- Demolished Structures
- Oil/Water Separators
- Slabs
- Roads
- Driveways
- Parking Lots
- Surface Water Bodies
- Creeks and Streams

Vegetation Cover

- Forestland
- Scrubland
- Wetland

Airfield Pavement

- HELIPAD
- RAMP
- RUNWAY
- SHLDR_OVERRUN
- TAXIWAY

NOTES

1. No MADEP VPH/EPH compounds were detected above the 2L GWQS for any wells sampled during this monitoring event.

CATLIN
Engineers and Scientists

SITE PP-3322
MADEP VPH/EPHCOLORIMETRY AND PLUME IN EXCESS OF 2L - THIRD QUARTER 2007

FIGURE
29.2

Job No.:	Date:	Scale:	Drawn By:	Checked By:
207-002	JAN 2008	AS SHOWN	KAWS	MEM

SECTION 30.0

OF THE

ANNUAL MANAGEMENT REPORT
MCB CAMP LEJEUNE UST MANAGEMENT PROGRAM

MONITORING EVENT:

YEAR 2007
(JANUARY – DECEMBER 2007)

SITE-SPECIFIC MONITORING REPORT
FOR

SITE PP-3326

NCDENR INCIDENT NO. 24009

30.0 EXECUTIVE SUMMARY
SITE PP-3326

30.1 Site Information

30.1.1 Site Location: MCB Camp Lejeune (Paradise Point Housing Area, 3326 Onslow Drive)
30.1.2 Incident Number(s): 24009
30.1.3 UTM Coordinates (NAD83) (Meters): 283202.91 Easting, 3840534.19 Northing
30.1.4 Risk Classification: Low
30.1.5 Land Use Classification: Residential
30.1.6 Source Type(s): One 285 gallon capacity heating oil UST

30.2 Monitoring Event Information

30.2.1 Sampling Performed By: CATLIN
30.2.2 Date(s) of This Monitoring Event: July 2007
30.2.3 Date(s) of Previous Monitoring Event: Previous groundwater sampling conducted in February 2006.
30.2.4 Reason(s) for This Monitoring Event: Determine if groundwater contaminants attenuated to concentrations below the 2L GWQSs.
30.2.5 Site Monitoring Status at Time of This Event: Site has been approved for NFA with LURs, however the subject site was re-sampled during this monitoring period to determine if contaminant levels had naturally attenuated to below the 2L GWQS.

30.3 Groundwater Hydraulics

30.3.1 Hydraulic Conductivity: Unknown
30.3.2 Effective Porosity: Unknown
30.3.3 Hydraulic Gradient: Unknown
30.3.4 Average Linear Groundwater Flow Velocity: Unknown
30.3.5 Groundwater Flow Direction: Unknown
30.3.6 Range of Measured Water Table Elevations: Not Measured. However, depth to groundwater from the temporary well installed in July 2007 was measured at approximately 3.8 feet BLS.
30.3.7 Significant Changes from Previously Reported Data: None

30.4 Free Product Plume

30.4.1 Free Product Present?: No
30.4.2 Free Product Thickness Measured: Not Applicable
30.4.3 Plume Size and Location: Not Applicable
30.4.4 Free Product Removed from Site This Period: Not Applicable
30.4.5 Significant Changes from Previously Reported Data: None

30.5 Dissolved-Phase Plume

30.5.1 Plume Concentrations: See Figures 30.1 and 30.2
30.5.2 Plume Size and Location: See Figures 30.1 and 30.2
30.5.3Significant Changes from Previously Reported Data: The groundwater sample analytical results from February 2006 as compared to the current analytical results July 2007) are discussed as follows:

EPA Method 610

During the February 2006 sampling event; Naphthalene, 1-Methylnaphthalene and 2-Methylnaphthalene were detected at concentrations of 125 ug/L, 112 ug/L, and 145 ug/L, respectively. All of these detected concentrations were in excess of the 2L GWQSs During the current sampling event these three compounds were again detected in excess of the 2L GWQSs. Naphthalene, 1-Methylnaphthalene and 2-Methylnaphthalene were detected at concentrations of 392 ug/L, 372 ug/L, and 247 ug/L, respectively. See Figure 30.1.

MADEP VPH/EPH

During the February 2006 sampling event, the C_9-C_{22} Aromatics Hydrocarbon Fraction was reported at a concentration of 1,350 ug/L which is above the 2L GWQS of 210 ug/L for this fraction. During the current sampling event the C_9-C_{22} Aromatics hydrocarbon fraction and C9-C18 Aliphatics hydrocarbon fraction were detected at concentrations of 3,434 ug/L and 4,570 ug/L, respectively, both of which were in excess of the 2L GWQSs. See Figure 30.2.

30.6 Potential Receptors

30.6.1 Contaminated Water Supply Well(s)?: No
30.6.2 Potable Water Supply Well Within 1,000 Feet of Source Area?: No
30.6.3 Any Water Supply Well Within 250 Feet of Source Area?: No
30.6.4 Surface Water Body Within 500 Feet?: Yes. The New River is approximately 500 feet to the West.
30.6.5 Past Evidence of Vapors?: No
30.6.6 Significant Changes from Previously Reported Data?: None

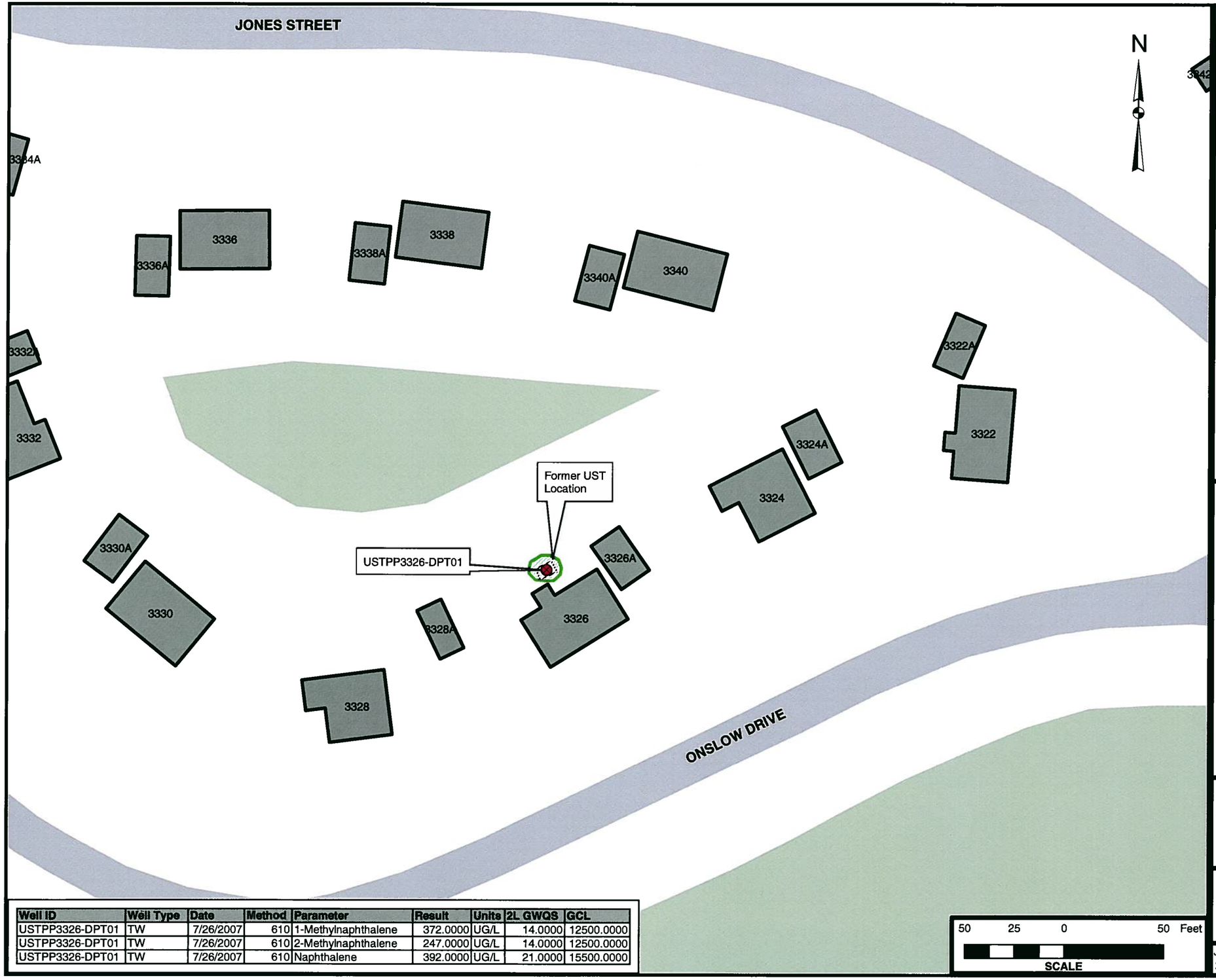
30.7 Remediation

30.7.1 Status: Complete
30.7.2 Type: Soil excavations in April and May 2004 and February 2006
30.7.3 Progress: Complete
30.7.4 Construction Contractor: Shaw (2004), Sovereign (2006)
30.7.5 Operating Contractor: None

30.8 Observations and Comments

The Naphthalene, 1-Methylnaphthalene, 2-Methylnaphthalene and C_9-C_{22} Aromatic concentrations previously detected in groundwater around the former UST at PP-3326

have not naturally attenuated to below the corresponding 2L GWQSs. In fact, the compounds' concentrations have increased, and the C_9-C_{18} Aliphatics concentration is noncompliant as of the current investigation. Current groundwater contaminant concentrations continue to prevent the site from qualifying for NFA without a LUR. Since groundwater conditions have shown an increase in contaminant concentrations since the last sampling event (February 2006), CATLIN recommends resampling groundwater in one year per EPA Method 610 and MADEP VPH/EPH to monitor groundwater conditions. If contaminant levels continue to increase, additional assessment and/or remediation may be necessary. See the figure in Appendix A for the proposed monitoring schedule.



Well ID	Well Type	Date	Method	Parameter	Result	Units	2L GWQS	GCL
USTPP3326-DPT01	TW	7/26/2007	610	1-Methylnaphthalene	372.0000	UG/L	14.0000	12500.0000
USTPP3326-DPT01	TW	7/26/2007	610	2-Methylnaphthalene	247.0000	UG/L	14.0000	12500.0000
USTPP3326-DPT01	TW	7/26/2007	610	Naphthalene	392.0000	UG/L	21.0000	15500.0000

50 25 0 50 Feet

SCALE

MCB CAMP LEJEUNE
UST MANAGEMENT PROGRAM
CALENDAR YEAR 2007

NAVFAC
Naval Facilities Engineering Command

LEGEND

- Proposed DPT Well
- Water Supply Wells
- Above Ground Storage Tank
- Underground Storage Tank
- Railroad Tracks

Walls and Fences

- FENCE
- GATE
- WALL

Analytical Results

- 2L Non-Compliant
- 2L Compliant
- EPA 610 Plume
- Buildings and Structures
- Demolished Structures
- Oil/Water Separators
- Slabs
- Roads
- Driveways
- Parking Lots
- Surface Water Bodies
- Creeks and Streams

Vegetation Cover

- Forestland
- Scrubland
- Wetland

Airfield Pavement

- HELIPAD
- RAMP
- RUNWAY
- SHLDR_OVERRUN
- TAXIWAY

NOTES

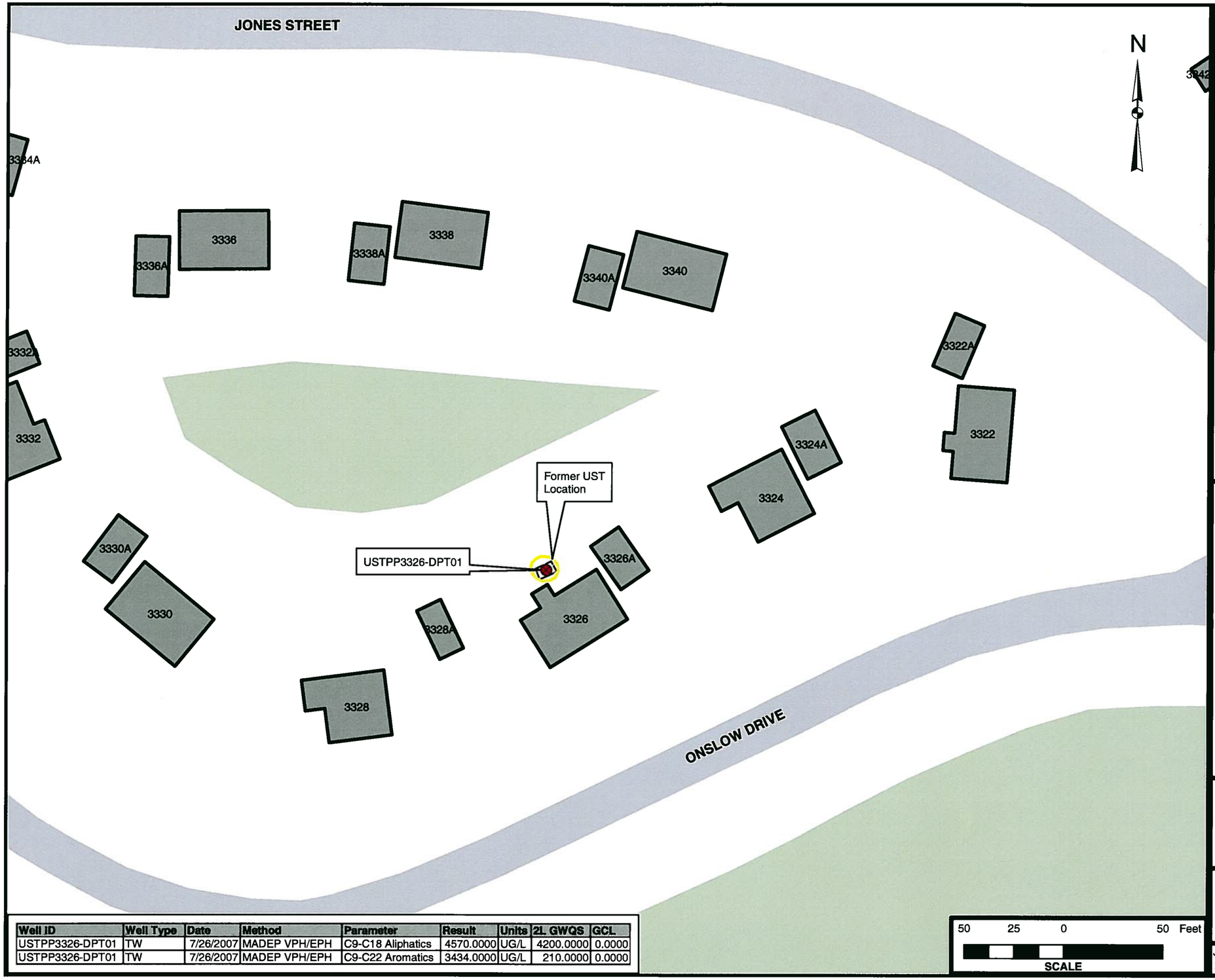
1. 2L Standard refers to North Carolina Groundwater Quality Standard 15A NCAC 2L.0202.
2. GCL refers to Gross Contaminant Level as defined in "Guidelines for the Assessment and Corrective Action" North Carolina Underground Storage Tank Section, effective July 1, 2001.
3. A 2L Standard of "0.00" implies a standard has not yet been established. According to NCAC T15:02L, any compound found above laboratory detection limits is considered noncompliant unless otherwise specified by the NCDENR.

CATLIN
Engineers and Scientists

SITE PP-3326
EPA METHOD 610 COLORIMETRY AND PLUME IN EXCESS OF 2L - THIRD QUARTER 2007

FIGURE **30.1**

Job No.:	Date:	Scale:	Drawn By:	Checked By:
207-002	JAN 2008	AS SHOWN	KAWS	MEM



Well ID	Well Type	Date	Method	Parameter	Result	Units	2L GWQS	GCL
USTPP3326-DPT01	TW	7/26/2007	MADEP VPH/EPH	C9-C18 Aliphatics	4570.0000	UG/L	4200.0000	0.0000
USTPP3326-DPT01	TW	7/26/2007	MADEP VPH/EPH	C9-C22 Aromatics	3434.0000	UG/L	210.0000	0.0000

50 25 0 50 Feet

SCALE

MCB CAMP LEJEUNE
UST MANAGEMENT PROGRAM
CALENDAR YEAR 2007

NAVFAC
Naval Facilities Engineering Command

LEGEND

- Proposed DPT Well
- Water Supply Wells
- Above Ground Storage Tank
- Underground Storage Tank
- Railroad Tracks

Walls and Fences
- FENCE
- GATE
- WALL

Analytical Results
- 2L Non-Compliant
- 2L Compliant
- MADEP Plume
- Buildings and Structures
- Demolished Structures
- Oil/Water Separators
- Slabs
- Roads
- Driveways
- Parking Lots
- Surface Water Bodies
- Creeks and Streams

Vegetation Cover
- Forestland
- Scrubland
- Wetland

Airfield Pavement
- HELIPAD
- RAMP
- RUNWAY
- SHLDR_OVERRUN
- TAXIWAY

NOTES

1. 2L Standard refers to North Carolina Groundwater Quality Standard 15A NCAC 2L.0202.
2. GCL refers to Gross Contaminant Level as defined in "Guidelines for the Assessment and Corrective Action" North Carolina Underground Storage Tank Section, effective July 1, 2001.
3. A 2L Standard of "0.00" implies a standard has not yet been established. According to NCAC T15:02L, any compound found above laboratory detection limits is considered noncompliant unless otherwise specified by the NCDENR.

CATLIN
Engineers and Scientists

SITE PP-3326
MADEP VPH/EPH COLORIMETRY AND PLUME IN EXCESS OF 2L - THIRD QUARTER 2007

FIGURE
30.2

Job No.:	Date:	Scale:	Drawn By:	Checked By:
207-002	JAN 2008	AS SHOWN	KAWS	MEM

SECTION 31.0

OF THE

ANNUAL MANAGEMENT REPORT
MCB CAMP LEJEUNE UST MANAGEMENT PROGRAM

MONITORING EVENT:

YEAR 2007
(JANUARY – DECEMBER 2007)

SITE-SPECIFIC MONITORING REPORT
FOR

SITE PP-3330

NCDENR INCIDENT NO. 24010

31.0 EXECUTIVE SUMMARY
SITE PP-3330

31.1 Site Information

31.1.1 Site Location: MCB Camp Lejeune (Paradise Point Housing Area, 3330 Onslow Drive)
31.1.2 Incident Number(s): 24010
31.1.3 UTM Coordinates (WGS84) (Meters): 283139.48 Easting, 3840536.53 Northing
31.1.4 Risk Classification: Low
31.1.5 Source Type(s): One 285 gallon heating oil UST.

31.2 Monitoring Event Information

31.2.1 Sampling Performed By: CATLIN
31.2.2 Date(s) of This Monitoring Event: July 2007
31.2.3 Date(s) of Previous Monitoring Event: Previous groundwater sampling conducted in November 2002.
31.2.4 Reason(s) for This Monitoring Event: Determine if groundwater contaminants attenuated to concentrations below the 2L GWQSs.
31.2.5 Site Monitoring Status at Time of This Event: Site has been approved for NFA with LURs, however the subject site was re-sampled during this monitoring period to determine if contaminant levels had naturally attenuated to below the 2L GWQS.

31.3 Groundwater Hydraulics

31.3.1 Hydraulic Conductivity: Unknown
31.3.2 Effective Porosity: Unknown
31.3.3 Hydraulic Gradient: Unknown
31.3.4 Average Linear Groundwater Flow Velocity: Unknown
31.3.5 Groundwater Flow Direction: Unknown
31.3.6 Range of Measured Water Table Elevations: Not Measured. However, depth to groundwater from the temporary well installed in July 2007 was measured at approximately 5.7 feet BLS.
31.3.7 Significant Changes from Previously Reported Data: None

31.4 Free Product Plume

31.4.1 Free Product Present?: No
31.4.2 Free Product Thickness Measured: Not Applicable
31.4.3 Plume Size and Location: Not Applicable
31.4.4 Free Product Removed from Site This Period: Not Applicable
31.4.5 Significant Changes from Previously Reported Data: None

31.5 Dissolved-Phase Plume

31.5.1 Plume Concentrations: See Figures 31.1 and 31.2
31.5.2 Plume Size and Location: See Figures 31.1 and 31.2
31.5.3 Significant Changes from Previously Reported Data: The groundwater sample analytical results from November 2002 as compared to the current analytical results (July 2007) are discussed as follows:

EPA Method 610

During the November 2002 sampling event Naphthalene was detected at concentrations of 110 ug/L which was above the 2L GWQS of 21 ug/L for this compound. During the current sampling event; Naphthalene, 1-Methylnaphthalene and 2-Methylnaphthalene were detected at concentrations of 237 ug/L, 262 ug/L, and 183 ug/L, respectively, all of which are in excess of the 2L GWQSs. See Figure 31.1.

MADEP VPH/EPH

During the November 2002 sampling event, the C_9-C_{22} Aromatics hydrocarbon fraction and C_9-C_{18} Aliphatics hydrocarbon fraction were reported at a concentrations above the 2L GWQS. During the current sampling event, only the C_9-C_{22} Aromatics hydrocarbon fraction was detected above the 2L GWQS of 210 ug/L with a concentration of 3,067 ug/L. See Figure 31.2.

31.6 Potential Receptors

31.6.1 Contaminated Water Supply Well(s)?: None
31.6.2 Potable Water Supply Well Within 1,000 Feet of Source Area?: No
31.6.3 Any Water Supply Well Within 250 Feet of Source Area?: No
31.6.4 Surface Water Body Within 500 Feet?: Yes. The New River is approximately 300 feet to the southwest.
31.6.5 Past Evidence of Vapors?: No
31.6.6 Significant Changes from Previously Reported Data?: None

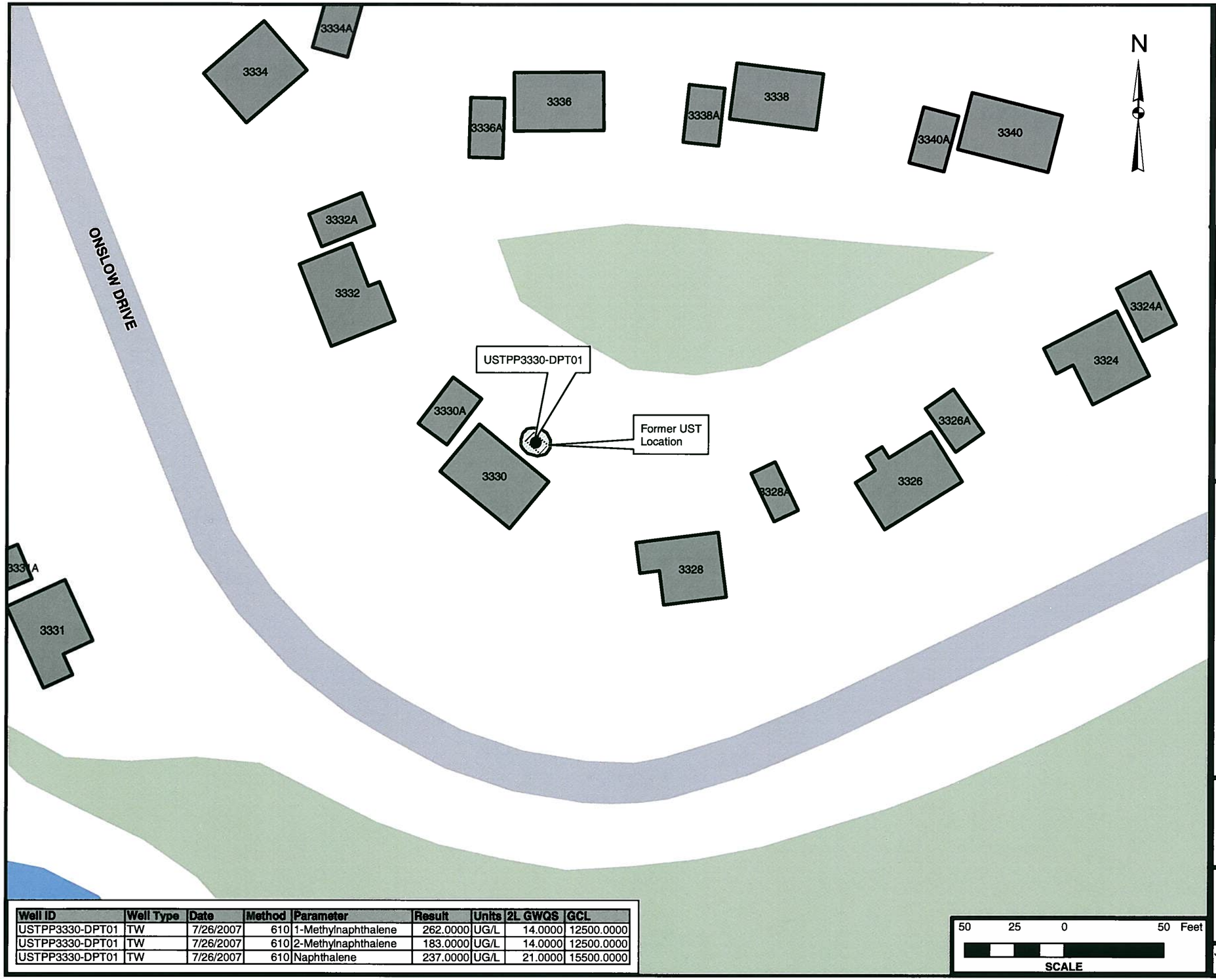
31.7 Remediation

31.7.1 Status: Complete
31.7.2 Type: Soil excavation
31.7.3 Progress: Complete
31.7.4 Construction Contractor: Shaw
31.7.5 Operating Contractor: None

31.8 Observations and Comments

The Naphthalene, 1-Methylnaphthalene, 2-Methylnaphthalene and C_9-C_{22} Aromatic concentrations detected in groundwater around the former UST at PP-3330 have not naturally attenuated to below the corresponding 2L GWQS. Previously detected MADEP fractions (C_9-C_{18} Aliphatics) concentrations have decreased to below the 2L GWQS as of the current sampling event. Other compounds, however, have remained

in approximately the same concentrations as previously detected, varying only slightly within the same order of magnitude. Current groundwater contaminant concentrations continue to prevent the site from qualifying for NFA without a LUR. CATLIN recommends resampling groundwater in two years per EPA Method 610 and MADEP VPH/EPH to monitor groundwater conditions.



Well ID	Well Type	Date	Method	Parameter	Result	Units	2L GWQS	GCL
USTPP3330-DPT01	TW	7/26/2007	610	1-Methylnaphthalene	262.0000	UG/L	14.0000	12500.0000
USTPP3330-DPT01	TW	7/26/2007	610	2-Methylnaphthalene	183.0000	UG/L	14.0000	12500.0000
USTPP3330-DPT01	TW	7/26/2007	610	Naphthalene	237.0000	UG/L	21.0000	15500.0000

50 25 0 50 Feet

SCALE

MCB CAMP LEJEUNE
UST MANAGEMENT PROGRAM
CALENDAR YEAR 2007

NAVFAC
Naval Facilities Engineering Command

LEGEND

- Proposed DPT Well
- Water Supply Wells
- Above Ground Storage Tank
- Underground Storage Tank
- Railroad Tracks

Walls and Fences
- FENCE
- GATE
- WALL

Analytical Results
- 2L Non-Compliant
- 2L Compliant
- EPA 610 Plume
- Buildings and Structures
- Demolished Structures
- Oil/Water Separators
- Slabs
- Roads
- Driveways
- Parking Lots
- Surface Water Bodies
- Creeks and Streams

Vegetation Cover
- Forestland
- Scrubland
- Wetland

Airfield Pavement
- HELIPAD
- RAMP
- RUNWAY
- SHLDR_OVERRUN
- TAXIWAY

NOTES

1. 2L Standard refers to North Carolina Groundwater Quality Standard 15A NCAC 2L.0202.
2. GCL refers to Gross Contaminant Level as defined in "Guidelines for the Assessment and Corrective Action" North Carolina Underground Storage Tank Section, effective July 1, 2001.
3. A 2L Standard of "0.00" implies a standard has not yet been established. According to NCAC T15:02L, any compound found above laboratory detection limits is considered noncompliant unless otherwise specified by the NCDENR.

CATLIN
Engineers and Scientists

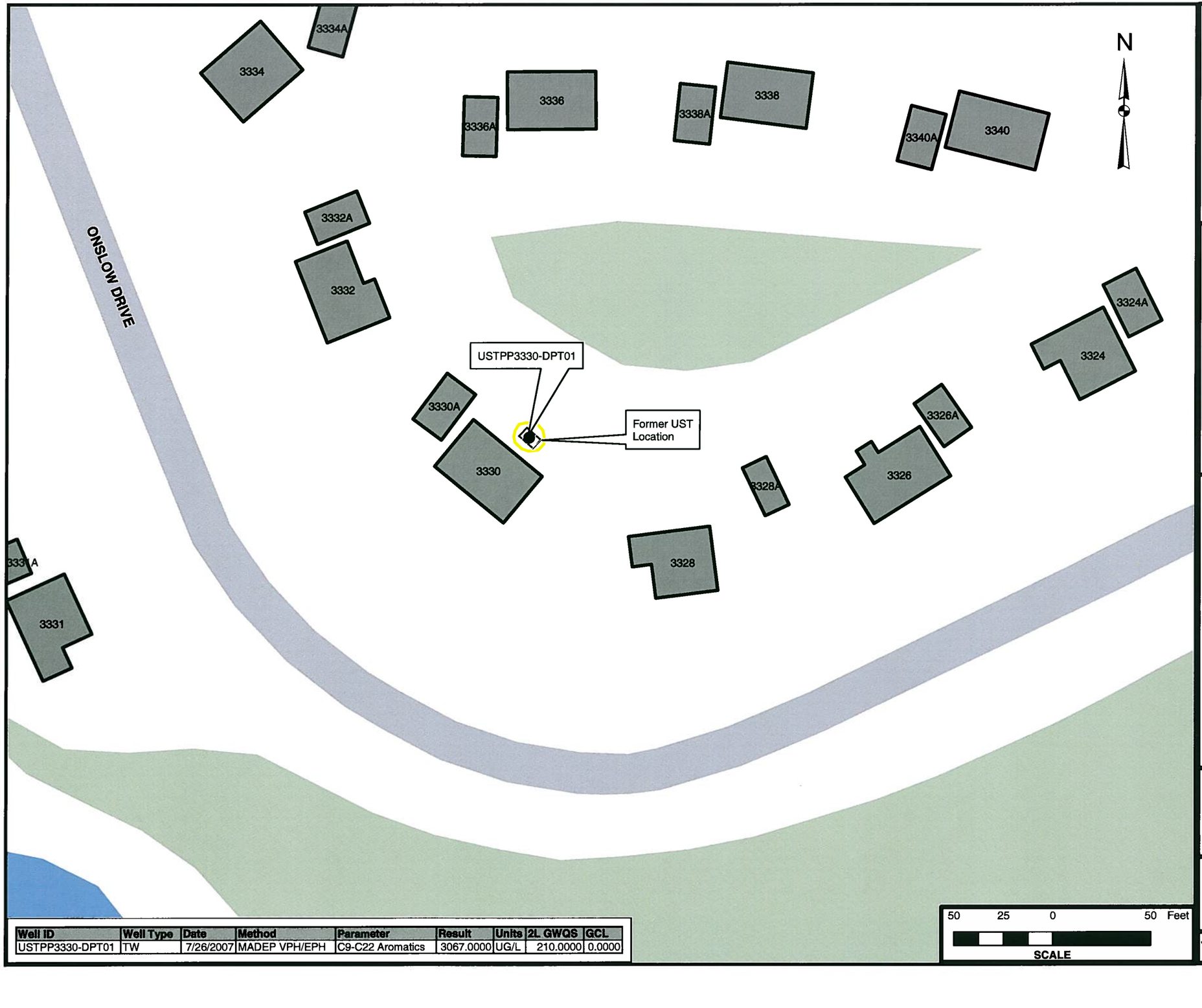
SITE PP-3330
EPA METHOD 610 COLORIMETRY AND PLUME IN EXCESS OF 2L - THIRD QUARTER 2007

FIGURE
31.1

Job No.:	Date:	Scale:	Drawn By:	Checked By:
207-002	JAN 2008	AS SHOWN	KAWS	MEM

MCB CAMP LEJEUNE
UST MANAGEMENT PROGRAM
CALENDAR YEAR 2007

NAVFAC
Naval Facilities Engineering Command



LEGEND

- Proposed DPT Well
- Water Supply Wells
- Above Ground Storage Tank
- Underground Storage Tank
- Railroad Tracks

Walls and Fences
- FENCE
- GATE
- WALL

Analytical Results
- 2L Non-Compliant
- 2L Compliant
- MADEP Plume
- Buildings and Structures
- Demolished Structures
- Oil/Water Separators
- Slabs
- Roads
- Driveways
- Parking Lots
- Surface Water Bodies
- Creeks and Streams

Vegetation Cover
- Forestland
- Scrubland
- Wetland

Airfield Pavement
- HELIPAD
- RAMP
- RUNWAY
- SHLDR_OVERRUN
- TAXIWAY

NOTES

1. 2L Standard refers to North Carolina Groundwater Quality Standard 15A NCAC 2L.0202.
2. GCL refers to Gross Contaminant Level as defined in "Guidelines for the Assessment and Corrective Action" North Carolina Underground Storage Tank Section, effective July 1, 2001.
3. A 2L Standard of "0.00" implies a standard has not yet been established. According to NCAC T15:02L, any compound found above laboratory detection limits is considered noncompliant unless otherwise specified by the NCDENR.

Well ID	Well Type	Date	Method	Parameter	Result	Units	2L GWQS	GCL
USTPP3330-DPT01	TW	7/26/2007	MADEP VPH/EPH	C9-C22 Aromatics	3067.0000	UG/L	210.0000	0.0000

50 25 0 50 Feet
SCALE

CATLIN
Engineers and Scientists

SITE PP-3330
MADEP VPH/EPH COLORIMETRY AND PLUME IN EXCESS OF 2L - THIRD QUARTER 2007

FIGURE
31.2

Job No.:	Date:	Scale:	Drawn By:	Checked By:
207-002	JAN 2008	AS SHOWN	KAWS	MEM

SECTION 32.0

OF THE

ANNUAL MANAGEMENT REPORT
MCB CAMP LEJEUNE UST MANAGEMENT PROGRAM

MONITORING EVENT:

YEAR 2007
(JANUARY – DECEMBER 2007)

SITE-SPECIFIC MONITORING REPORT
FOR

SITE PP-3332

NCDENR INCIDENT NO. 24011

32.0 EXECUTIVE SUMMARY
SITE PP-3332

32.1 Site Information

32.1.1 Site Location: MCB Camp Lejeune (Paradise Point Housing Area, 3332 Onslow Drive)
32.1.2 Incident Number(s): 24011
32.1.3 UTM Coordinates (WGS84) (Meters): 283117.00 Easting, 3840563.75 Northing
32.1.4 Risk Classification: Low
32.1.5 Land Use Classification: Residential
32.1.6 Source Type(s): One 285 gallon capacity fuel oil UST

32.2 Monitoring Event Information

32.2.1 Sampling Performed By: CATLIN
32.2.2 Date(s) of This Monitoring Event: July 2007
32.2.3 Date(s) of Previous Monitoring Event: Previous groundwater sampling conducted in November 2002.
32.2.4 Reason(s) for This Monitoring Event: Determine if groundwater contaminants attenuated to concentrations below the 2L GWQSs.
32.2.5 Site Monitoring Status at Time of This Event: Site has been approved for NFA with LURs, however the subject site was re-sampled during this monitoring period to determine if contaminant levels had naturally attenuated to below the 2L GWQS.

32.3 Groundwater Hydraulics

32.3.1 Hydraulic Conductivity: Unknown
32.3.2 Effective Porosity: Unknown
32.3.3 Hydraulic Gradient: Unknown
32.3.4 Average Linear Groundwater Flow Velocity: Unknown
32.3.5 Groundwater Flow Direction: Unknown
32.3.6 Range of Measured Water Table Elevations: Not Measured. However, depth to groundwater from the temporary well installed in July 2007 was measured at approximately 6.9 feet BLS.
32.3.7 Significant Changes from Previously Reported Data: None

32.4 Free Product Plume

32.4.1 Free Product Present?: No
32.4.2 Free Product Thickness Measured: Not Applicable
32.4.3 Free Product Removed from Site This Period: Not Applicable
32.4.4 Significant Changes from Previously Reported Data: None

32.5 Dissolved-Phase Plume

32.5.1 Plume Concentrations: See Figures 32.1 and 32.2
32.5.2 Plume Size and Location: See Figures 32.1 and 32.2
32.5.3 Significant Changes from Previously Reported Data: The groundwater sample analytical results from November 2002 as compared to the current analytical results (July 2007) are discussed as follows:

EPA Method 610

During the November 2002 sampling event no EPA Method 610 compounds were detected above the 2L GWQSs. During the current sampling event; Naphthalene, 1-Methylnaphthalene and 2-Methylnaphthalene were detected at concentrations of 161 ug/L, 174 ug/L, and 115 ug/L, respectively, all of which are in excess of the 2L GWQSs. See Figure 32.1.

MADEP VPH/EPH

During the November 2002 sampling event, the C_9-C_{22} Aromatics hydrocarbon fraction was reported at a concentration of <920 ug/L which was above the 2L GWQS of 210 ug/L for this compound. During the current sampling event, the C_9-C_{22} Aromatics hydrocarbon fraction was detected above the 2L GWQS of 210 ug/L with a concentration of 1,602 ug/L. See Figure 32.2.

32.6 Potential Receptors

32.6.1 Contaminated Water Supply Well(s)?: None
32.6.2 Potable Water Supply Well Within 1,000 Feet of Source Area?: No
32.6.3 Any Water Supply Well Within 250 Feet of Source Area?: No
32.6.4 Surface Water Body Within 500 Feet?: Yes. The New River is approximately 300 feet to the southwest.
32.6.5 Past Evidence of Vapors?: No
32.6.6 Significant Changes from Previously Reported Data?: None

32.7 Remediation

32.7.1 Status: Complete
32.7.2 Type: Soil excavation
32.7.3 Progress: Complete
32.7.4 Construction Contractor: Shaw
32.7.5 Operating Contractor: None

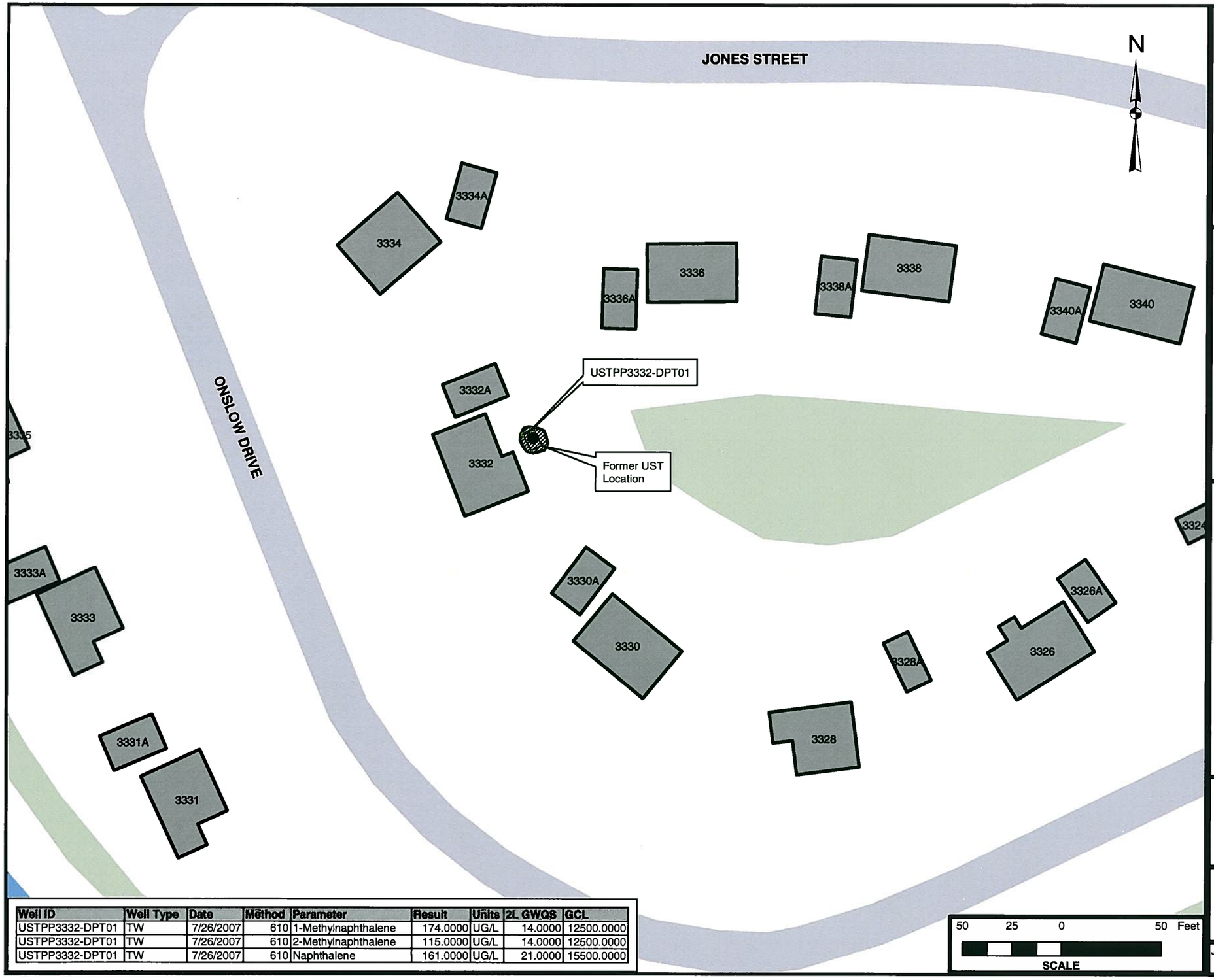
32.8 Observations and Comments

The C_9-C_{22} Aromatic concentration previously detected in groundwater around the former UST at PP-3332 has not naturally attenuated to below the corresponding 2L GWQS. In addition, 1-Methylnaphthalene, 2-Methylnaphthalene, and Naphthalene, were detected above their 2L GWQSs, but below their GCLs. Current groundwater

contaminant concentrations continue to prevent the site from qualifying for NFA without a groundwater LUR. CATLIN recommends resampling groundwater in two years per EPA Method 610 and MADEP VPH/EPH to monitor groundwater conditions.

MCB CAMP LEJEUNE
UST MANAGEMENT PROGRAM
CALENDAR YEAR 2007

NAVFAC
Naval Facilities Engineering Command



LEGEND

- Proposed DPT Well
- Water Supply Wells
- Above Ground Storage Tank
- Underground Storage Tank
- Railroad Tracks

Walls and Fences
- FENCE
- GATE
- WALL

Analytical Results
- 2L Non-Compliant
- 2L Compliant
- EPA 610 Plume
- Buildings and Structures
- Demolished Structures
- Oil/Water Separators
- Slabs
- Roads
- Driveways
- Parking Lots
- Surface Water Bodies
- Creeks and Streams

Vegetation Cover
- Forestland
- Scrubland
- Wetland

Airfield Pavement
- HELIPAD
- RAMP
- RUNWAY
- SHLDR_OVERRUN
- TAXIWAY

NOTES

1. 2L Standard refers to North Carolina Groundwater Quality Standard 15A NCAC 2L.0202.
2. GCL refers to Gross Contaminant Level as defined in "Guidelines for the Assessment and Corrective Action" North Carolina Underground Storage Tank Section, effective July 1, 2001.
3. A 2L Standard of "0.00" implies a standard has not yet been established. According to NCAC T15:02L, any compound found above laboratory detection limits is considered noncompliant unless otherwise specified by the NCDENR.

Well ID	Well Type	Date	Method	Parameter	Result	Units	2L GWQS	GCL
USTPP3332-DPT01	TW	7/26/2007	610	1-Methylnaphthalene	174.0000	UG/L	14.0000	12500.0000
USTPP3332-DPT01	TW	7/26/2007	610	2-Methylnaphthalene	115.0000	UG/L	14.0000	12500.0000
USTPP3332-DPT01	TW	7/26/2007	610	Naphthalene	161.0000	UG/L	21.0000	15500.0000

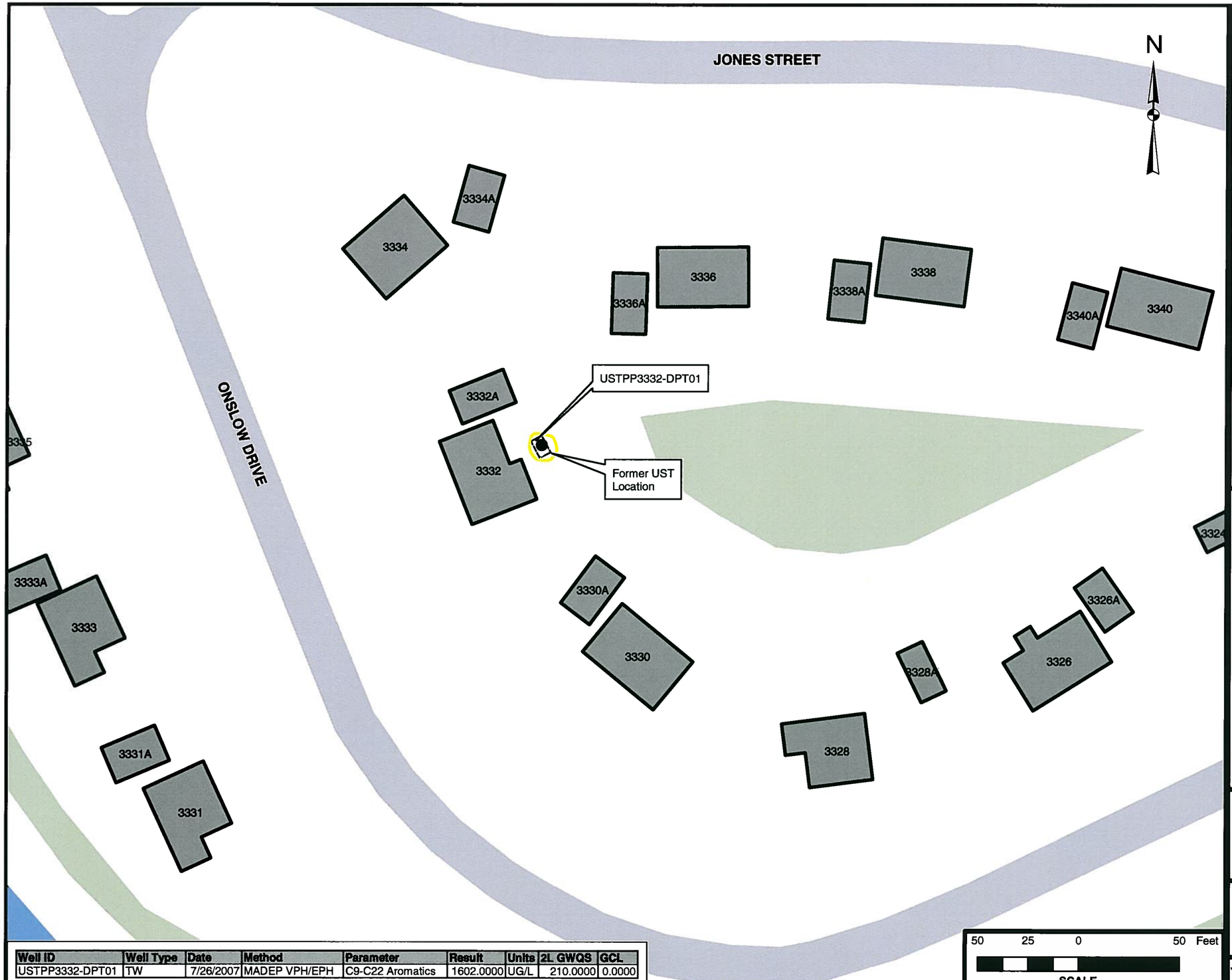
50 25 0 50 Feet
SCALE

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SITE PP-3332
EPA METHOD 610 COLORIMETRY AND PLUME IN EXCESS OF 2L - THIRD QUARTER 2007

FIGURE
32.1

Job No.:	Date:	Scale:	Drawn By:	Checked By:
207-002	JAN 2008	AS SHOWN	KAWS	MEM



Well ID	Well Type	Date	Method	Parameter	Result	Units	2L GWQS	GCL
USTPP3332-DPT01	TW	7/26/2007	MADEP VPH/EPH	C9-C22 Aromatics	1602.0000	UG/L	210.0000	0.0000

MCB CAMP LEJEUNE
UST MANAGEMENT PROGRAM
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LEGEND

- Proposed DPT Well
- Water Supply Wells
- Above Ground Storage Tank
- Underground Storage Tank
- Railroad Tracks

Walls and Fences
- FENCE
- GATE
- WALL

Analytical Results
- 2L Non-Compliant
- 2L Compliant
- MADEP Plume
- Buildings and Structures
- Demolished Structures
- Oil/Water Separators
- Slabs
- Roads
- Driveways
- Parking Lots
- Surface Water Bodies
- Creeks and Streams

Vegetation Cover
- Forestland
- Scrubland
- Wetland

Airfield Pavement
- HELIPAD
- RAMP
- RUNWAY
- SHLDR_OVERRUN
- TAXIWAY

NOTES

1. 2L Standard refers to North Carolina Groundwater Quality Standard 15A NCAC 2L.0202.
2. GCL refers to Gross Contaminant Level as defined in "Guidelines for the Assessment and Corrective Action" North Carolina Underground Storage Tank Section, effective July 1, 2001.
3. A 2L Standard of "0.00" implies a standard has not yet been established. According to NCAC T15:02L, any compound found above laboratory detection limits is considered noncompliant unless otherwise specified by the NCDENR.

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SITE PP-3332
MADEP VPH/EPH COLORIMETRY AND PLUME IN EXCESS OF 2L - THIRD QUARTER 2007

FIGURE
32.2

Job No.:	Date:	Scale:	Drawn By:	Checked By:
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SECTION 33.0

OF THE

ANNUAL MANAGEMENT REPORT
MCB CAMP LEJEUNE UST MANAGEMENT PROGRAM

MONITORING EVENT:

YEAR 2007
(JANUARY – DECEMBER 2007)

SITE-SPECIFIC MONITORING REPORT
FOR

SITE PP-3340

NCDENR INCIDENT NO. 24012

33.0 EXECUTIVE SUMMARY
SITE PP-3340

33.1 Site Information

33.1.1 Site Location: MCB Camp Lejeune, Paradise Point.
33.1.2 Incident Number(s): 24012
33.1.3 UTM Coordinates (WGS84) (Meters): 283212.84 Easting, 3840581.19 Northing
33.1.4 Risk Classification: Low
33.1.5 Land Use Classification: Residential
33.1.6 Source Type(s): 285 gallon Heating Oil UST

33.2 Monitoring Event Information

33.2.1 Sampling Performed By: CATLIN
33.2.2 Date(s) of This Monitoring Event: July 2007
33.2.3 Date(s) of Previous Monitoring Event: Previous groundwater sampling conducted in November 2004.
33.2.4 Reason(s) for This Monitoring Event: Determine if groundwater contaminants attenuated to concentrations below the 2L GWQSs.
33.2.5 Site Monitoring Status at Time of This Event: Site has been approved for NFA with LURs, however the subject site was re-sampled during this monitoring period to determine if contaminant levels had naturally attenuated to below the 2L GWQS.

33.3 Groundwater Hydraulics

33.3.1 Hydraulic Conductivity: Unknown
33.3.2 Effective Porosity: Unknown
33.3.3 Hydraulic Gradient: Unknown
33.3.4 Average Linear Groundwater Flow Velocity: Unknown
33.3.5 Groundwater Flow Direction: Unknown
33.3.6 Range of Measured Water Table Elevations: Not Measured. However, depth to groundwater from the temporary well installed in July 2007 was measured at approximately 6.9 feet BLS.
33.3.7 Significant Changes from Previously Reported Data: None

33.4 Free Product Plume

33.4.1 Free Product Present?: No
33.4.2 Free Product Thickness Measured: Not Applicable
33.4.3 Plume Size and Location: Not Applicable
33.4.4 Free Product Removed from Site This Period: Not Applicable
33.4.5 Significant Changes from Previously Reported Data: None

33.5 Dissolved-Phase Plume

33.5.1 Plume Concentrations: See Figure 33.1
33.5.2 Plume Size and Location: See Figure 33.1
33.5.3 Significant Changes from Previously Reported Data: The groundwater sample analytical results from November 2004 as compared to the current analytical results (July 2007) are discussed as follows:

MADEP VPH/EPH

During the November 2004 sampling event, the C_9-C_{22} Aromatics Hydrocarbon Fraction was reported at a concentration of 1,900 ug/L which is above the 2L GWQS of 210 ug/L for the this compound. During the current sampling event, the C_9-C_{22} Aromatics Hydrocarbon Fraction was reported at a concentration of 1,402 ug/L which is still above the 2L GWQS for this compound. See Figure 33.1.

33.6 Potential Receptors

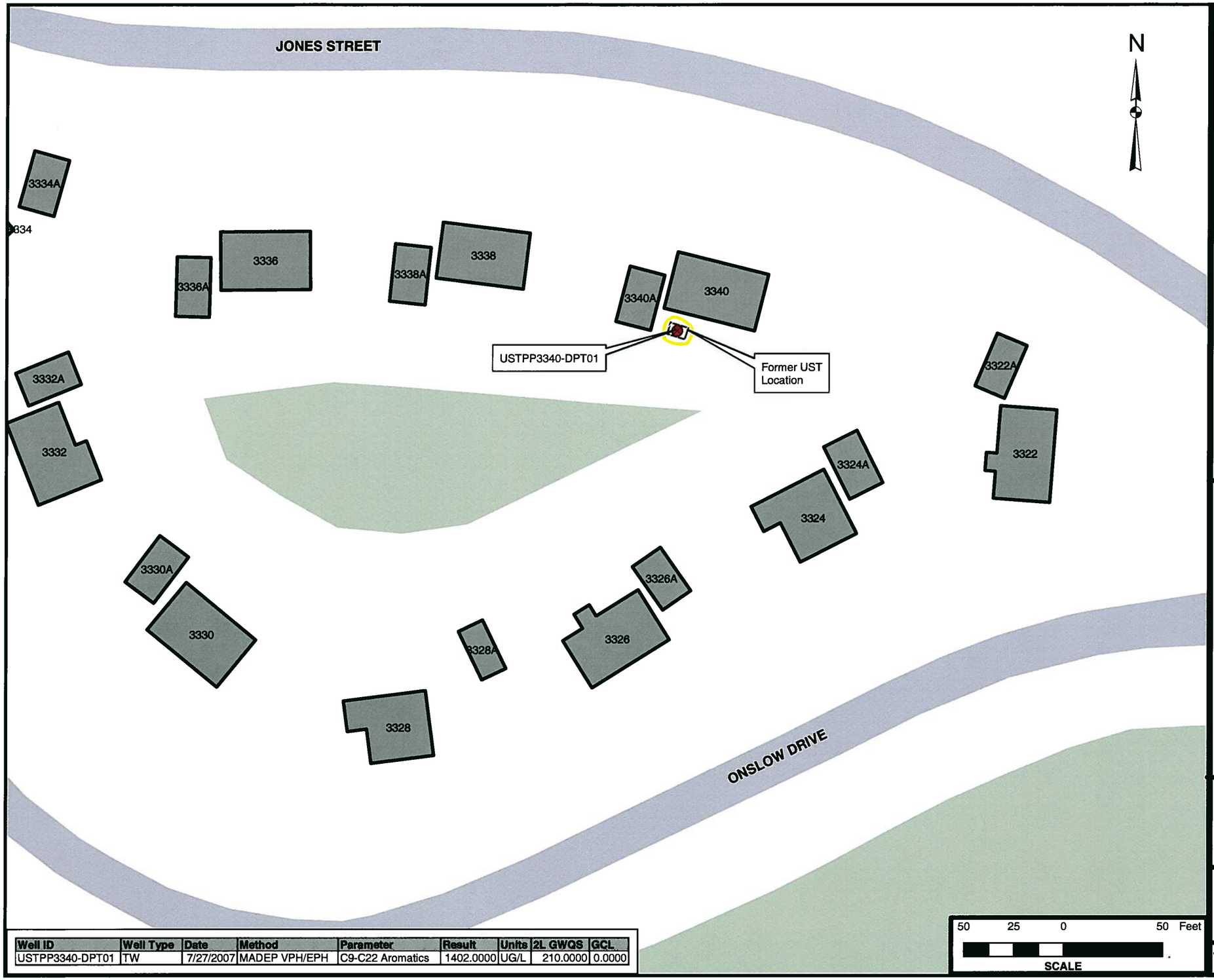
33.6.1 Contaminated Water Supply Well(s)?: None
33.6.2 Potable Water Supply Well Within 1,000 Feet of Source Area?: No
33.6.3 Any Water Supply Well Within 250 Feet of Source Area?: No
33.6.4 Surface Water Body Within 500 Feet?: No
33.6.5 Past Evidence of Vapors?: No
33.6.6 Significant Changes from Previously Reported Data?: None

33.7 Remediation

33.7.1 Status: Complete
33.7.2 Type: Soil Excavation
33.7.3 Progress: Complete
33.7.4 Construction Contractor: J. A. Jones
33.7.5 Operating Contractor: None

33.8 Observations and Comments

The C_9-C_{22} Aromatic concentration previously detected in groundwater at the PP-3340 site has not naturally attenuated to below the 2L GWQS of 210 µg/L. Overall, contaminant levels have decreased slightly since the November 2004 sampling event. Current groundwater contaminant concentrations, however, continue to prevent the site from qualifying for NFA without a groundwater LUR. CATLIN recommends resampling groundwater in two years per MADEP VPH/EPH to monitor groundwater conditions.



Well ID	Well Type	Date	Method	Parameter	Result	Units	2L GWQS	GCL
USTPP3340-DPT01	TW	7/27/2007	MADEP VPH/EPH	C9-C22 Aromatics	1402.0000	UG/L	210.0000	0.0000

50 25 0 50 Feet

SCALE

MCB CAMP LEJEUNE
UST MANAGEMENT PROGRAM
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Naval Facilities Engineering Command

LEGEND

- DPT Well
- Water Supply Wells
- Above Ground Storage Tank
- Underground Storage Tank
- Railroad Tracks

Walls and Fences
- FENCE
- GATE
- WALL

Analytical Results
- 2L Non-Compliant
- 2L Compliant
- MADEP Plume
- Buildings and Structures
- Demolished Structures
- Oil/Water Separators
- Slabs
- Roads
- Driveways
- Parking Lots
- Surface Water Bodies
- Creeks and Streams

Vegetation Cover
- Forestland
- Scrubland
- Wetland

Airfield Pavement
- HELIPAD
- RAMP
- RUNWAY
- SHLDR_OVERRUN
- TAXIWAY

NOTES

1. 2L Standard refers to North Carolina Groundwater Quality Standard 15A NCAC 2L.0202.
2. GCL refers to Gross Contaminant Level as defined in "Guidelines for the Assessment and Corrective Action" North Carolina Underground Storage Tank Section, effective July 1, 2001.
3. A 2L Standard of "0.00" implies a standard has not yet been established. According to NCAC T15:02L, any compound found above laboratory detection limits is considered noncompliant unless otherwise specified by the NCDENR.

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SITE PP-3340
MADEP VPH/EPH COLORIMETRY AND PLUME IN EXCESS OF 2L - THIRD QUARTER 2007

FIGURE
33.1

Job No.:	Date:	Scale:	Drawn By:	Checked By:
207-002	JAN 2008	AS SHOWN	KAWS	MEM

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OF THE

ANNUAL MANAGEMENT REPORT
MCB CAMP LEJEUNE UST MANAGEMENT PROGRAM

MONITORING EVENT:

YEAR 2007
(JANUARY – DECEMBER 2007)

SITE-SPECIFIC MONITORING REPORT
FOR

SITE PP-3343

NCDENR INCIDENT NO. 24013

34.0 EXECUTIVE SUMMARY
SITE PP-3343

34.1 Site Information

34.1.1 Site Location: MCB Camp Lejeune, Paradise Point
34.1.2 Incident Number(s): 24013
34.1.3 UTM Coordinates (WGS84) (Meters): 282983.74 Easting, 3840678.92 Northing
34.1.4 Risk Classification: Low
34.1.5 Land Use Classification: Residential
34.1.6 Source Type(s): 285 gallon Heating Oil UST

34.2 Monitoring Event Information

34.2.1 Sampling Performed By: CATLIN
34.2.2 Date(s) of This Monitoring Event: July 2007
34.2.3 Date(s) of Previous Monitoring Event: Previous groundwater sampling conducted in November 2004.
34.2.4 Reason(s) for This Monitoring Event: Determine if groundwater contaminants attenuated to concentrations below the 2L GWQSs.
34.2.5 Site Monitoring Status at Time of This Event: Site has been approved for NFA with LURs, however the subject site was re-sampled during this monitoring period to determine if contaminant levels had naturally attenuated to below the 2L GWQS.

34.3 Groundwater Hydraulics

34.3.1 Hydraulic Conductivity: Unknown
34.3.2 Effective Porosity: Unknown
34.3.3 Hydraulic Gradient: Unknown
34.3.4 Average Linear Groundwater Flow Velocity: Unknown
34.3.5 Groundwater Flow Direction: Unknown
34.3.6 Range of Measured Water Table Elevations: Not Measured. However, depth to groundwater from the temporary well installed in July 2007 was measured at approximately 10.2 feet BLS.
34.3.7 Significant Changes from Previously Reported Data: None

34.4 Free Product Plume

34.4.1 Free Product Present?: No
34.4.2 Free Product Thickness Measured: Not Applicable
34.4.3 Plume Size and Location: Not Applicable
34.4.4 Free Product Removed from Site This Period: Not Applicable
34.4.5 Significant Changes from Previously Reported Data: None

34.5 Dissolved-Phase Plume

34.5.1 Plume Concentrations: See Figure 34.1
34.5.2 Plume Size and Location: See Figure 34.1
34.5.3 Significant Changes from Previously Reported Data: The groundwater sample analytical results from November 2004 as compared to the current analytical results (July 2007) are discussed as follows:

MADEP VPH/EPH

During the November 2004 sampling event, the C_9-C_{18} Aliphatics (<7,100 ug/L) and C_9-C_{22} Aromatics (<3,700 ug/L) were detected at concentrations in excess of their established 2L GWQSs of 4,200 ug/L and 210 ug/L, respectively. During the current sampling event, these same MADEP fractions were detected at concentrations of 26,183 ug/L and 11,223 ug/L, respectively, which are still above the 2L GWQSs for these compounds. See Figure 34.1.

34.6 Potential Receptors

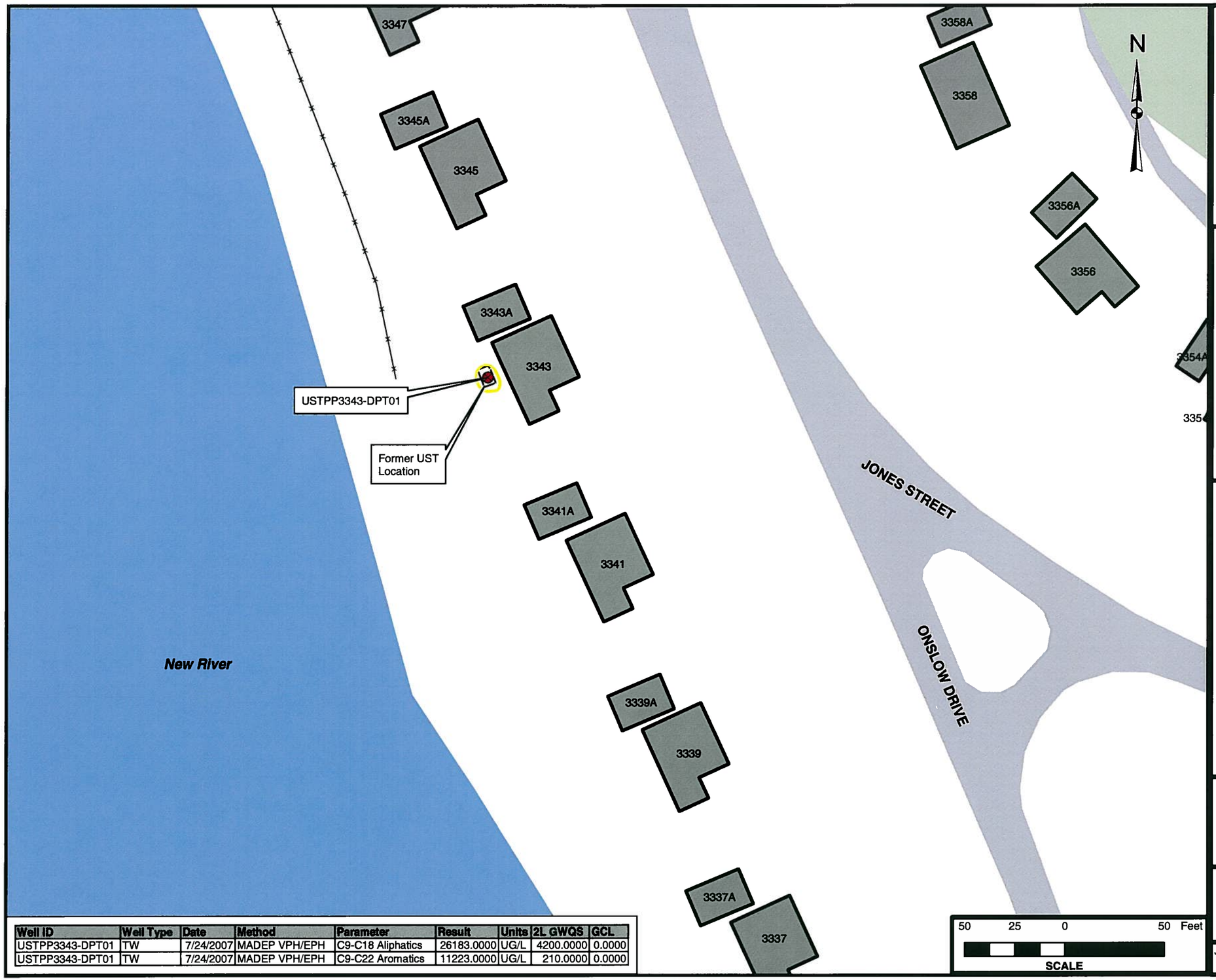
34.6.1 Contaminated Water Supply Well(s)?: None
34.6.2 Potable Water Supply Well Within 1,000 Feet of Source Area?: No
34.6.3 Any Water Supply Well Within 250 Feet of Source Area?: No
34.6.4 Surface Water Body Within 500 Feet?: Yes. The New River is approximately 80 feet west of the subject site.
34.6.5 Past Evidence of Vapors?: No
34.6.6 Significant Changes from Previously Reported Data?: None

34.7 Remediation

34.7.1 Status: Complete
34.7.2 Type: Soil Excavation
34.7.3 Progress: Complete
34.7.4 Construction Contractor: J.A. Jones
34.7.5 Operating Contractor: None

34.8 Observations and Comments

Noncompliant MADEP petroleum hydrocarbon fractions persist in groundwater at the site. An increase in C_9-C_{18} Aliphatics and C_9-C_{22} Aromatics concentrations was observed upon comparison of the November 2004 and the current sampling event. Since detected MADEP contaminant concentrations have increased significantly, CATLIN recommends resampling groundwater in one year per MADEP VPH/EPH to monitor groundwater conditions. If contaminant levels continue to increase, additional assessment and/or remediation may be necessary. See the figure in Appendix A for the proposed monitoring schedule.



Well ID	Well Type	Date	Method	Parameter	Result	Units	2L GWQS	GCL
USTPP3343-DPT01	TW	7/24/2007	MADEP VPH/EPH	C9-C18 Aliphatics	26183.0000	UG/L	4200.0000	0.0000
USTPP3343-DPT01	TW	7/24/2007	MADEP VPH/EPH	C9-C22 Aromatics	11223.0000	UG/L	210.0000	0.0000

MCB CAMP LEJEUNE
UST MANAGEMENT PROGRAM
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Naval Facilities Engineering Command

LEGEND

- DPT Well
- Water Supply Wells
- Above Ground Storage Tank
- Underground Storage Tank
- Railroad Tracks

Walls and Fences
- FENCE
- GATE
- WALL

Analytical Results
- 2L Non-Compliant
- 2L Compliant
- MADEP Plume
- Buildings and Structures
- Demolished Structures
- Oil/Water Separators
- Slabs
- Roads
- Driveways
- Parking Lots
- Surface Water Bodies
- Creeks and Streams

Vegetation Cover
- Forestland
- Scrubland
- Wetland

Airfield Pavement
- HELIPAD
- RAMP
- RUNWAY
- SHLDR_OVERRUN
- TAXIWAY

NOTES

1. 2L Standard refers to North Carolina Groundwater Quality Standard 15A NCAC 2L.0202.
2. GCL refers to Gross Contaminant Level as defined in "Guidelines for the Assessment and Corrective Action" North Carolina Underground Storage Tank Section, effective July 1, 2001.
3. A 2L Standard of "0.00" implies a standard has not yet been established. According to NCAC T15:02L, any compound found above laboratory detection limits is considered noncompliant unless otherwise specified by the NCDENR.

CATLIN
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SITE PP-3343
MADEP VPH/EPH COLORIMETRY AND PLUME IN EXCESS OF 2L - THIRD QUARTER 2007

FIGURE
34.1

Job No.:	Date:	Scale:	Drawn By:	Checked By:
207-002	JAN 2008	AS SHOWN	KAWS	MEM

SECTION 35.0

OF THE

ANNUAL MANAGEMENT REPORT
MCB CAMP LEJEUNE UST MANAGEMENT PROGRAM

MONITORING EVENT:

YEAR 2007
(JANUARY – DECEMBER 2007)

SITE-SPECIFIC MONITORING REPORT
FOR

SITE PP-3350

NCDENR INCIDENT NO. 24014

35.0 EXECUTIVE SUMMARY
SITE PP-3350

35.1 Site Information

35.1.1 Site Location: MCB Camp Lejeune (Paradise Point Housing Area, 3350 Jones Street)
35.1.2 Incident Number(s): 24014
35.1.3 UTM Coordinates (WGS84) (Meters): 283165.95 Easting, 3840664.02 Northing
35.1.4 Risk Classification: Low
35.1.5 Land Use Classification: Residential
2.1.6 Source Type(s): One 285 gallon capacity heating oil tank UST.

35.2 Monitoring Event Information

35.2.1 Sampling Performed By: CATLIN
35.2.2 Date(s) of This Monitoring Event: July 2007
35.2.3 Date(s) of Previous Monitoring Event: Previous groundwater sampling conducted in November 2002.
35.2.4 Reason(s) for This Monitoring Event: Determine if groundwater contaminants attenuated to concentrations below the 2L GWQSs.
35.2.5 Site Monitoring Status at Time of This Event: Site has been approved for NFA with LURs, however the subject site was re-sampled during this monitoring period to determine if contaminant levels had naturally attenuated to below the 2L GWQS.

35.3 Groundwater Hydraulics

35.3.1 Hydraulic Conductivity: Unknown
35.3.2 Effective Porosity: Unknown
35.3.3 Hydraulic Gradient: Unknown
35.3.4 Average Linear Groundwater Flow Velocity: Unknown
35.3.5 Groundwater Flow Direction: Unknown
35.3.6 Range of Measured Water Table Elevations: Not Measured. However, depth to groundwater from the temporary well installed in July 2007 was measured at approximately 7.6 feet BLS.
35.3.7 Significant Changes from Previously Reported Data: None

35.4 Free Product Plume

35.4.1 Free Product Present?: No
35.4.2 Free Product Thickness Measured: Not Applicable
35.4.3 Free Product Removed from Site This Period: Not Applicable
35.4.4 Significant Changes from Previously Reported Data: None

35.5 Dissolved-Phase Plume

35.5.1 Plume Concentrations: See Figures 35.1 and 35.2
35.5.2 Plume Size and Location: See Figures 35.1 and 35.2
35.5.3 Significant Changes from Previously Reported Data: The groundwater sample analytical results from November 2002 as compared to the current analytical results (July 2007) are discussed as follows:

EPA Method 610

During the November 2002 sampling event, Naphthalene was detected at a concentration of 36 ug/L which was above the 2L GWQS of 21 ug/L for this compound. During the current sampling event no EPA Method 610 compounds were detected above the 2L GWQSs. See Figure 35.1.

MADEP VPH/EPH

During the November 2002 sampling event, the C_9-C_{22} Aromatics hydrocarbon fraction was reported at a concentration of <920 ug/L which was above the 2L GWQS of 210 ug/L for this compound. During the current sampling event no MADEP fractions were detected above the 2L GWQSs. See Figure 35.2.

35.6 Potential Receptors

35.6.1 Contaminated Water Supply Well(s)?: None
35.6.2 Potable Water Supply Well Within 1,000 Feet of Source Area?: No
35.6.3 Any Water Supply Well Within 250 Feet of Source Area?: No
Surface Water Body Within 500 Feet?: No
35.6.4 Past Evidence of Vapors?: No
35.6.5 Significant Changes from Previously Reported Data?: None

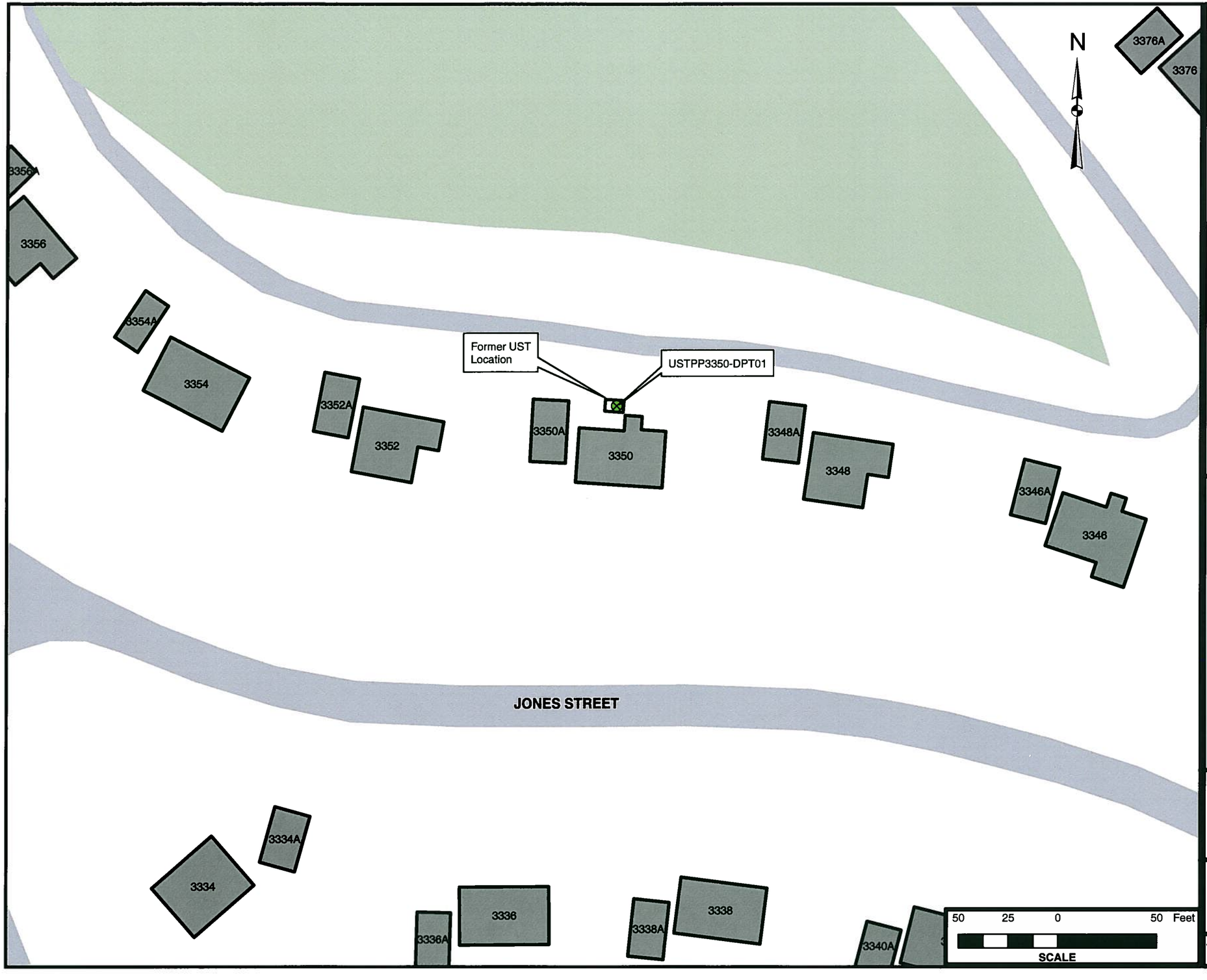
35.7 Remediation

35.7.1 Status: Complete
35.7.2 Type: Soil Excavation
35.7.3 Progress: Complete
35.7.4 Construction Contractor: Shaw
35.7.5 Operating Contractor: None

35.8 Observations and Comments

The Naphthalene and C_9-C_{22} Aromatic concentrations previously detected in groundwater at PP-3350 have naturally attenuated to below the corresponding 2L GWQSs.

The July 2007 analytical results were submitted to the NCDENR by CATLIN in a Report of Findings with Site Closure Request. In a November 26, 2007 letter from the NCDENR – UST Section, NFA was granted for the subject site.



MCB CAMP LEJEUNE
UST MANAGEMENT PROGRAM
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NAVFAC
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LEGEND

- Proposed DPT Well
- Water Supply Wells
- Above Ground Storage Tank
- Underground Storage Tank
- Railroad Tracks

Walls and Fences
- FENCE
- GATE
- WALL

Analytical Results
- 2L Non-Compliant
- 2L Compliant
- EPA 610 Plume
- Buildings and Structures
- Demolished Structures
- Oil/Water Separators
- Slabs
- Roads
- Driveways
- Parking Lots
- Surface Water Bodies
- Creeks and Streams

Vegetation Cover
- Forestland
- Scrubland
- Wetland

Airfield Pavement
- HELIPAD
- RAMP
- RUNWAY
- SHLDR_OVERRUN
- TAXIWAY

NOTES

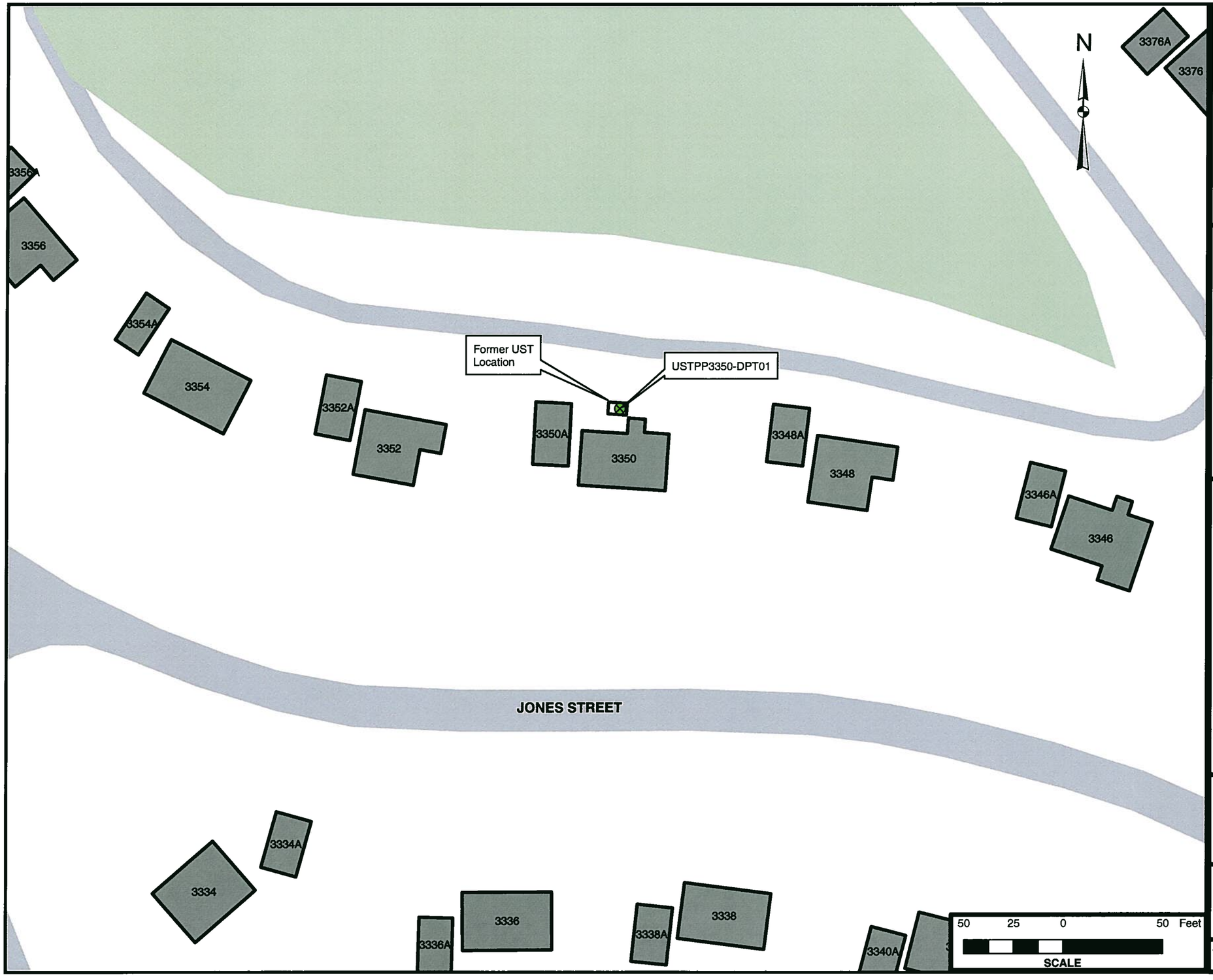
1. No EPA 610 compounds were detected above the 2L GWQS for any wells sampled during this monitoring event.

CATLIN
Engineers and Scientists

SITE PP-3350
EPA METHOD 610 COLORIMETRY AND PLUME IN EXCESS OF 2L - THIRD QUARTER 2007

FIGURE
35.1

Job No.:	Date:	Scale:	Drawn By:	Checked By:
207-002	JAN 2008	AS SHOWN	KAWS	MEM



MCB CAMP LEJEUNE
UST MANAGEMENT PROGRAM
CALENDAR YEAR 2007

NAVFAC
Naval Facilities Engineering Command

LEGEND

- Proposed DPT Well
- Water Supply Wells
- Above Ground Storage Tank
- Underground Storage Tank
- Railroad Tracks

Walls and Fences
- FENCE
- GATE
- WALL

Analytical Results
- 2L Non-Compliant
- 2L Compliant
- MADEP Plume
- Buildings and Structures
- Demolished Structures
- Oil/Water Separators
- Slabs
- Roads
- Driveways
- Parking Lots
- Surface Water Bodies
- Creeks and Streams

Vegetation Cover
- Forestland
- Scrubland
- Wetland

Airfield Pavement
- HELIPAD
- RAMP
- RUNWAY
- SHLDR_OVERRUN
- TAXIWAY

NOTES

1. No MADEP VPH/EPH compounds were detected above the 2L GWQS for any wells sampled during this monitoring event.

CATLIN
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SITE PP-3350
MADEP VPH/EPH COLORIMETRY AND PLUME IN EXCESS OF 2L - THIRD QUARTER 2007

FIGURE
35.2

Job No.:	Date:	Scale:	Drawn By:	Checked By:
207-002	JAN 2008	AS SHOWN	KAWS	MEM

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OF THE

ANNUAL MANAGEMENT REPORT
MCB CAMP LEJEUNE UST MANAGEMENT PROGRAM

MONITORING EVENT:

YEAR 2007
(JANUARY – DECEMBER 2007)

SITE-SPECIFIC MONITORING REPORT
FOR

SITE PP-3354

NCDENR INCIDENT NO. 24015

36.0 EXECUTIVE SUMMARY
SITE PP-3354

36.1 Site Information

36.1.1 Site Location: MCB Camp Lejeune, Paradise Point
36.1.2 Incident Number(s): 24015
36.1.3 UTM Coordinates (WGS84) (Meters): 283105.56 Easting, 3840679.40 Northing
36.1.4 Risk Classification: Low
36.1.5 Land Use Classification: Residential
36.1.6 Source Type(s): 285 gallon Heating Oil UST

36.2 Monitoring Event Information

36.2.1 Sampling Performed By: CATLIN
36.2.2 Date(s) of This Monitoring Event: July 2007
36.2.3 Date(s) of Previous Monitoring Event: Previous groundwater sampling conducted in November 2004.
36.2.4 Reason(s) for This Monitoring Event: Determine if groundwater contaminants attenuated to concentrations below the 2L GWQSs.
36.2.5 Site Monitoring Status at Time of This Event: Site has been approved for NFA with LURs, however the subject site was re-sampled during this monitoring period to determine if contaminant levels had naturally attenuated to below the Residential MSCCs and the 2L GWQS.

36.3 Groundwater Hydraulics

36.3.1 Hydraulic Conductivity: Unknown
36.3.2 Effective Porosity: Unknown
36.3.3 Hydraulic Gradient: Unknown
36.3.4 Average Linear Groundwater Flow Velocity: Unknown
36.3.5 Groundwater Flow Direction: Unknown
36.3.6 Range of Measured Water Table Elevations: Not Measured. However, depth to groundwater from the temporary well installed in July 2007 was measured at approximately 6.4 feet BLS.
36.3.7 Significant Changes from Previously Reported Data: None

36.4 Free Product Plume

36.4.1 Free Product Present?: No
36.4.2 Free Product Thickness Measured: Not Applicable
36.4.3 Plume Size and Location: Not Applicable
36.4.4 Free Product Removed from Site This Period: Not Applicable
36.4.5 Significant Changes from Previously Reported Data: None

36.5 Dissolved-Phase Plume

36.5.1 Plume Concentrations: See Figures 36.1 and 36.2
36.5.2 Plume Size and Location: See Figures 36.1 and 36.2
36.5.3 Significant Changes from Previously Reported Data: The groundwater sample analytical results from November 2004 as compared to the current analytical results (July 2007) are discussed as follows:

EPA Method 602

During the November 2004 sampling event, Naphthalene was the only EPA Method 602 compound analyzed and it was detected at a concentration of 70.7 ug/L which was above the 2L GWQS of 21 ug/L for this compound. During the current sampling event, Naphthalene was detected at a concentration of 93.3 ug/L, which is still above the 2L GWQS. See Figure 36.1.

MADEP VPH/EPH

During the November 2004 sampling event, the C_9-C_{22} Aromatics were detected at a concentration of 720 ug/L which is in excess of the 2L GWQS of 210 ug/L for this compound. During the current sampling event, this same MADEP fraction was detected at concentrations of 1,572 ug/L, which is still above the 2L GWQS for this compound. See Figure 36.2.

36.6 Potential Receptors

36.6.1 Contaminated Water Supply Well(s)?: None
36.6.2 Potable Water Supply Well Within 1,000 Feet of Source Area?: No
36.6.3 Any Water Supply Well Within 250 Feet of Source Area?: No
36.6.4 Surface Water Body Within 500 Feet?: Yes. The New River is approximately 450 feet west of the subject site.
36.6.5 Past Evidence of Vapors?: No
36.6.6 Significant Changes from Previously Reported Data?: None

36.7 Remediation

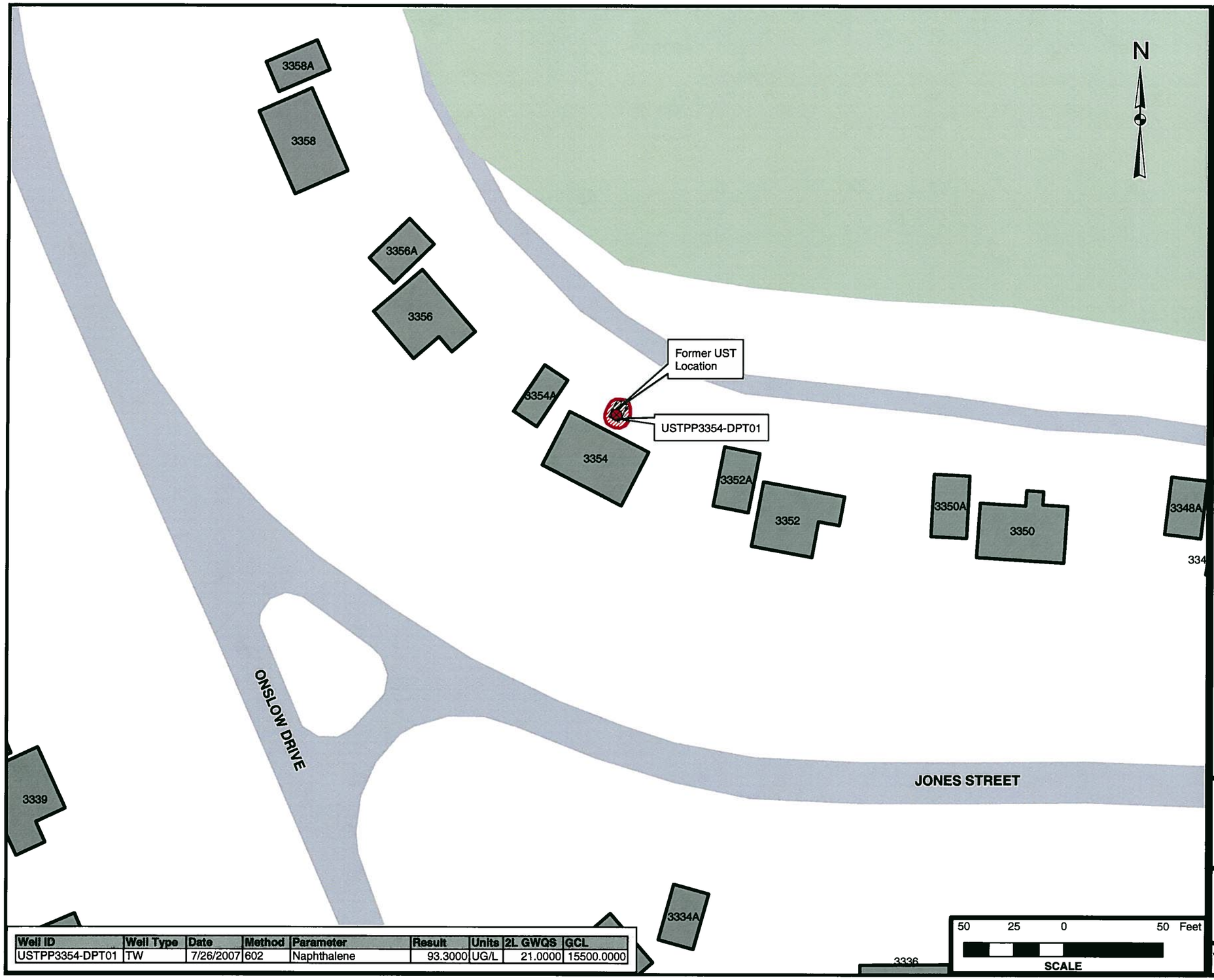
36.7.1 Status: Complete
36.7.2 Type: Soil Excavation
36.7.3 Progress: Complete
36.7.4 Construction Contractor: J.A. Jones
36.7.5 Operating Contractor: None

36.8 Observations and Comments

The C_9-C_{22} Aromatic concentrations previously detected in the soils around the former UST at PP-3354 have not naturally attenuated to below the Residential MSCCs. Current soil sample results have only slightly decreased as compared to the last sampling event in November 2004 (1,013 mg/Kg C_9-C_{22} Aromatics in 2007 versus 1,326 mg/Kg C_9-C_{22} Aromatics in 2004).

A noncompliant Naphthalene concentration persists in the groundwater at the site. Naphthalene was detected at 93.3 µg/L during this investigation as compared to 70.7 µg/L in the 2004 investigation. Both concentrations are above the 2L GWQS, but below the GCL of 15,500 µg/L. The C_9-C_{22} Aromatics groundwater concentrations historically revealed at PP-3354 have not attenuated below the corresponding 2L GWQS. The current C_9-C_{22} Aromatics concentration of 1,572 µg/L is greater than the 2004 detected concentration of 720 µg/L. All other MADEP fraction concentrations, however, have stabilized or decreased in concentration as compared to the last sampling event in 2004.

Current soil (C_9-C_{22} Aromatics) and groundwater (Naphthalene and C_9-C_{22} Aromatics) contaminants continue to persist at noncompliant concentrations. As a result, the LUR can not be removed from this site. CATLIN recommends re-sampling soil and groundwater in two years. CATLIN recommends resampling soil in the vicinity of historical contamination per MADEP VPH/EPH. The groundwater should be resampled in two years per EPA Method 610 and MADEP VPH/EPH to monitor groundwater conditions.



Well ID	Well Type	Date	Method	Parameter	Result	Units	2L GWQS	GCL
USTPP3354-DPT01	TW	7/26/2007	602	Naphthalene	93.3000	UG/L	21.0000	15500.0000

MCB CAMP LEJEUNE
UST MANAGEMENT PROGRAM
CALENDAR YEAR 2007

NAVFAC
Naval Facilities Engineering Command

LEGEND

- Proposed DPT Well
- Water Supply Wells
- Above Ground Storage Tank
- Underground Storage Tank
- Railroad Tracks

Walls and Fences
- FENCE
- GATE
- WALL

Analytical Results
- 2L Non-Compliant
- 2L Compliant
- EPA 602 Plume

Buildings and Structures
- Demolished Structures
- Oil/Water Separators
- Slabs
- Roads
- Driveways
- Parking Lots
- Surface Water Bodies
- Creeks and Streams

Vegetation Cover
- Forestland
- Scrubland
- Wetland

Airfield Pavement
- HELIPAD
- RAMP
- RUNWAY
- SHLDR_OVERRUN
- TAXIWAY

NOTES

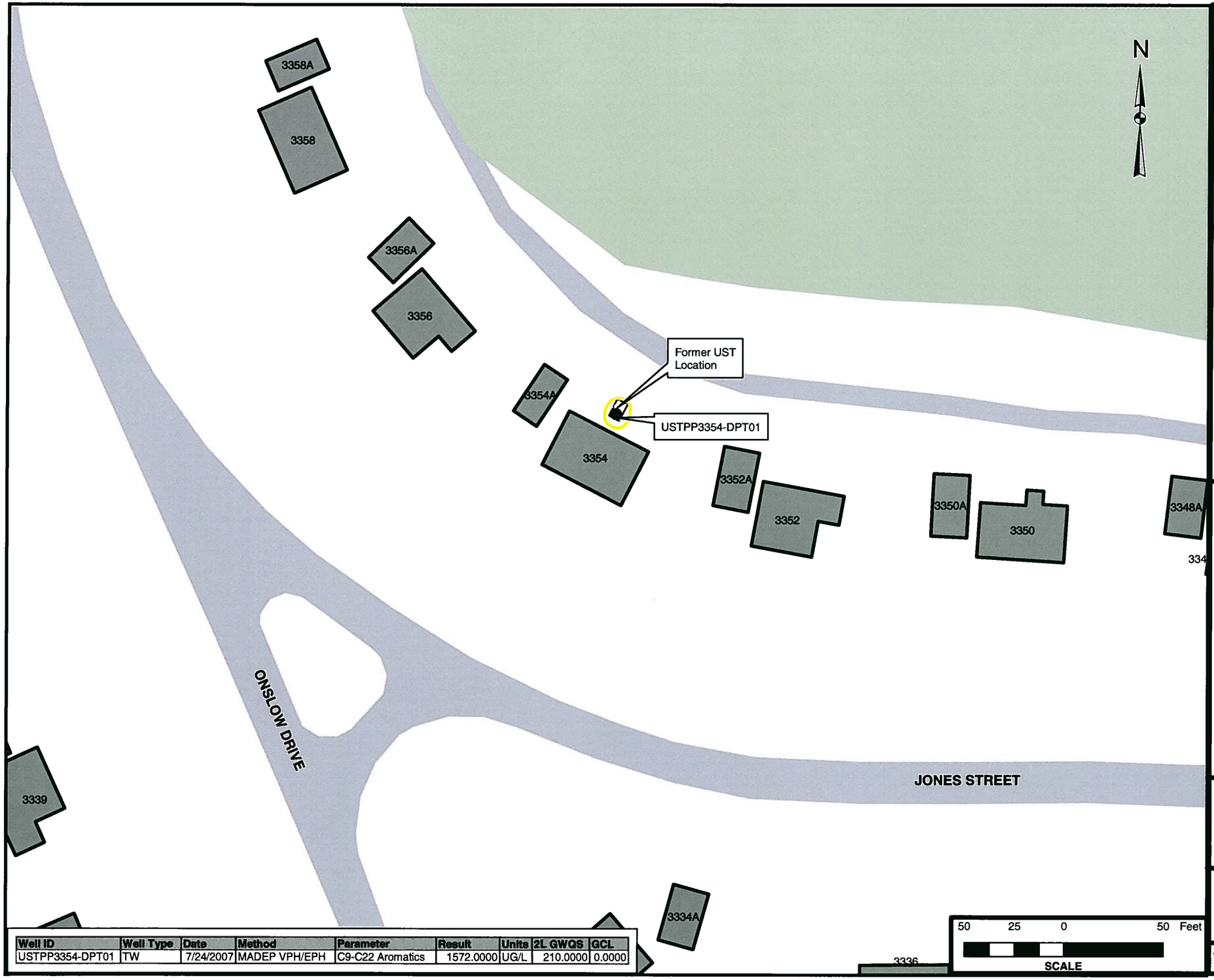
1. 2L Standard refers to North Carolina Groundwater Quality Standard 15A NCAC 2L.0202.
2. GCL refers to Gross Contaminant Level as defined in "Guidelines for the Assessment and Corrective Action" North Carolina Underground Storage Tank Section, effective July 1, 2001.
3. A 2L Standard of "0.00" implies a standard has not yet been established. According to NCAC T15:02L, any compound found above laboratory detection limits is considered noncompliant unless otherwise specified by the NCDENR.

CATLIN
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SITE PP-3354
EPA METHOD 602 COLORIMETRY AND PLUME IN EXCESS OF 2L - THIRD QUARTER 2007

FIGURE **36.1**

Job No.:	Date:	Scale:	Drawn By:	Checked By:
207-002	JAN 2008	AS SHOWN	KAWS	MEM



Well ID	Well Type	Date	Method	Parameter	Result	Units	2L GWQS	GCL
USTPP3354-DPT01	TW	7/24/2007	MADEP VPH/EPH	C9-C22 Aromatics	1572.0000	UG/L	210.0000	0.0000

MCB CAMP LEJEUNE
UST MANAGEMENT PROGRAM
CALENDAR YEAR 2007

NAVFAC
Naval Facilities Engineering Command

LEGEND

- Proposed DPT Well
- Water Supply Wells
- Above Ground Storage Tank
- Underground Storage Tank
- Railroad Tracks

Walls and Fences
- FENCE
- GATE
- WALL

Analytical Results
- 2L Non-Compliant
- 2L Compliant
- MADEP Plume
- Buildings and Structures
- Demolished Structures
- Oil/Water Separators
- Slabs
- Roads
- Driveways
- Parking Lots
- Surface Water Bodies
- Creeks and Streams

Vegetation Cover
- Forestland
- Scrubland
- Wetland

Airfield Pavement
- HELIPAD
- RAMP
- RUNWAY
- SHLDR_OVERRUN
- TAXIWAY

NOTES

1. 2L Standard refers to North Carolina Groundwater Quality Standard 15A NCAC 2L.0202.
2. GCL refers to Gross Contaminant Level as defined in "Guidelines for the Assessment and Corrective Action" North Carolina Underground Storage Tank Section, effective July 1, 2001.
3. A 2L Standard of "0.00" implies a standard has not yet been established. According to NCAC T15:02L, any compound found above laboratory detection limits is considered noncompliant unless otherwise specified by the NCDENR.

CATLIN
Engineers and Scientists

SITE PP-3354
MADEP VPH/EPH COLORIMETRY AND PLUME IN EXCESS OF 2L - THIRD QUARTER 2007

FIGURE
36.2

Job No.:	Date:	Scale:	Drawn By:	Checked By:
207-002	JAN 2008	AS SHOWN	KAWS	MEM

SECTION 37.0

OF THE

ANNUAL MANAGEMENT REPORT
MCB CAMP LEJEUNE UST MANAGEMENT PROGRAM

MONITORING EVENT:

YEAR 2007
(JANUARY – DECEMBER 2007)

SITE-SPECIFIC MONITORING REPORT
FOR

SITE PT-5

NCDENR INCIDENT NO. 16449

37.0 EXECUTIVE SUMMARY
SITE PT-5

37.1 Site Information

37.1.1 Site Location: MCB Camp Lejeune
37.1.2 Incident Number(s): 16449
37.1.3 UTM Coordinates (WGS84) (Meters): 285670.53 Easting, 3839921.69 Northing
37.1.4 Risk Classification: Low
37.1.5 Land Use Classification: No Classification to date; Residential standards to be used for regulatory compliance, where applicable.
37.1.6 Source Type(s): 500 gallon Diesel UST

37.2 Monitoring Event Information

37.2.1 Sampling Performed By: No sampling performed.
37.2.2 Date(s) of This Monitoring Event: No sampling performed during 2007.
37.2.3 Date(s) of Previous Monitoring Event: Previous sampling performed by J.A. Jones as part of the Annual Monitoring Report and Request for No Further Action dated February 26, 2002.
37.2.4 Reason(s) for This Monitoring Event: Not Applicable.
37.2.5 Site Monitoring Status at Time of This Event: Site qualifies for NFA with LURs; however, it is recommended that the site be re-sampled during the next monitoring period to determine if contaminant levels have naturally attenuated to below the Residential MSCCs and 2L GWQS.

37.3 Groundwater Hydraulics

37.3.1 Hydraulic Conductivity: 48 feet/day as calculated in the Law Site Assessment (SA) Report dated June 4, 1996.
37.3.2 Effective Porosity: 0.25 (Law SA)
37.3.3 Hydraulic Gradient: 0.003 (Law SA)
37.3.4 Average Linear Groundwater Flow Velocity: 0.6 feet/day (Law SA)
37.3.5 Groundwater Flow Direction: North
37.3.6 Range of Measured Water Table Elevations: 10.48 (MW13) to 14.95 (MW16) feet above MSL.
37.3.7 Significant Changes from Previously Reported Data: Not Applicable. No data was collected during this monitoring period.

37.4 Free Product Plume

37.4.1 Free Product Present?: No; Removed as of 2000.
37.4.2 Free Product Thickness Measured: Not Applicable.
37.4.3 Plume Size and Location: Not Applicable.
37.4.4 Free Product Removed from Site This Period: Not Applicable.
37.4.5 Significant Changes from Previously Reported Data: Not Applicable. No data was collected during this monitoring period.

37.5 Dissolved-Phase Plume

37.5.1 Plume Concentrations: Not Measured.
37.5.2 Plume Size and Location: Not Measured.
37.5.3 Significant Changes from Previously Reported Data: Not Applicable. This is the first Management Report prepared by CATLIN for this site. J.A. Jones collected quarterly groundwater samples from groundwater monitoring wells MW04, MW06, MW07, MW08, and MW12 from May 1997 to May 1998. In addition, to accurately delineate and monitor the natural attenuation of the dissolved petroleum hydrocarbon constituents in the area of the former UST basin, J.A. Jones collected groundwater samples from monitoring wells MW-1, MW-7, MW-14, MW-16, MW-18, and recovery well RW-1 on August 18, 1998 and November 18, 1998. Groundwater samples were analyzed via EPA Method 602 and (EPA Method 610 analyte list) EPA Method 625. Groundwater sample analytical results from the February 26, 2002 J.A. Jones Annual Monitoring Report as compared to the 2L GWQS are discussed as follows:

EPA Method 602

As of the final sampling event in March 2001, only MW17 contained detectable EPA Method 602 compounds. Benzene was the only contaminant detected above the 2L GWQS of 1 ug/L at a concentration of 9 µg/L.

EPA Method 610

The March 2001 sampling event revealed monitoring wells MW17 and MW18 contained noncompliant Naphthalene concentrations of 22 µg/L and 43 µg/L, respectively. The 2L GWQS for Naphthalene is 21 ug/L.

37.6 Potential Receptors

37.6.1 Contaminated Water Supply Well(s)?: No.
37.6.2 Potable Water Supply Well Within 1,000 Feet of Source Area?: No.
37.6.3 Any Water Supply Well Within 250 Feet of Source Area?: No.
37.6.4 Surface Water Body Within 500 Feet?: No.
37.6.5 Past Evidence of Vapors?: No.
37.6.6 Significant Changes from Previously Reported Data?: Not Applicable. This is the first Management Report prepared by CATLIN for this site.

37.7 Remediation

37.7.1 Status: Complete.
37.7.2 Type: Free product recovery via passive skimmer in RW1; AFVR; Soil excavation.
37.7.3 Progress: Complete.
37.7.4 Construction Contractor: J.A. Jones
37.7.5 Operating Contractor: J.A. Jones

37.8 Observations and Comments

This site qualifies for NFA status with LURs based on an NCDENR email dated May 3, 2002. J.A. Jones excavated approximately 400 cubic yards of petroleum impacted soil in February 2000. Sidewall confirmation soil samples for TPH-GRO and DRO indicated that the sidewalls did not contain detectable GRO/DRO concentrations. However, the AMR incorrectly reported that floor results were less than the 10 mg/kg Action Limit. Review of the laboratory report shows that floor TPH-GRO and DRO results were 30 mg/kg and 354 mg/kg, respectively (and not µg/kg as stated in the report). These results are above the Action Limit. Unfortunately, the report does not indicate the depth of the floor sample or excavation.

Site monitoring wells were gauged quarterly for one year following the February 2000 soil excavation. No product was detected in any site wells during the monitoring events. A final groundwater sampling event of all site wells occurred in March 2001. Monitoring wells MW17 and MW18 contained noncompliant groundwater contaminant concentrations. CATLIN recommends sampling groundwater at these wells to assess current groundwater conditions. The sample from MW17 should be analyzed via EPA Method 602 and for the 610 Compound list (by EPA 625 plus 1 and 2-Methylnaphthalene), and MW18 should be analyzed via the 610 Compound list (EPA 625 plus 1 and 2-Methylnaphthalene) only as there were no 602 target analytes detected in MW18. Also, RBCA soil samples should be collected from the location and depth of the previous TPH soil samples which contained concentrations above the Action Limits. The soil samples should be analyzed per EPA Methods 8260 and 8270 and MADEP VPH/EPH. See the figure in Appendix A for the proposed monitoring schedule.

SECTION 38.0

OF THE

ANNUAL MANAGEMENT REPORT
MCB CAMP LEJEUNE UST MANAGEMENT PROGRAM

MONITORING EVENT:

YEAR 2007
(JANUARY – DECEMBER 2007)

SITE-SPECIFIC MONITORING REPORT
FOR

SITE S-2633

NCDENR INCIDENT NO. 20385

38.0 EXECUTIVE SUMMARY
SITE S-2633

38.1 Site Information

38.1.1 Site Location: MCB Camp Lejeune
38.1.2 Incident Number(s): 20385
38.1.3 UTM Coordinates (WGS84) (Meters): 282279.23 Easting, 3842887.46 Northing
38.1.4 Risk Classification: Low (If no product)
38.1.5 Land Use Classification: Industrial/Commercial
38.1.6 Source Type(s): 150 gallon capacity gasoline tank (Installed in 1942 and removed 1996)

38.2 Monitoring Event Information

38.2.1 Sampling Performed By: No sampling performed.
38.2.2 Date(s) of This Monitoring Event: No sampling performed during 2007.
38.2.3 Date(s) of Previous Monitoring Event: January 2006 by Sovereign.
38.2.4 Reason(s) for This Monitoring Event: Not Applicable.
38.2.5 Site Monitoring Status at Time of This Event: One on-site monitoring well is being gauged and sampled on a biennial basis (Next sampling event to be conducted in January 2008).

38.3 Groundwater Hydraulics

38.3.1 Hydraulic Conductivity: 0.678 (from CSA, 1998)
38.3.2 Effective Porosity: Unknown
38.3.3 Hydraulic Gradient: 0.087 (from CSA, 1998)
38.3.4 Average Linear Groundwater Flow Velocity: 0.678 feet/day (from CSA, 1998)
38.3.5 Groundwater Flow Direction: West (from CSA, 1998)
38.3.6 Range of Measure Water Table Elevations: 0.61 to 5.61 feet BLS (CSA, 1998)
38.3.7 Significant Changes from Previously Reported Data: Not Applicable. No data was collected during this monitoring period.

38.4 Free Product Plume

38.4.1 Free Product Present?: No
38.4.2 Free Product Thickness Measured: Not Applicable
38.4.3 Plume Size and Location: Not Applicable
38.4.4 Free Product Removed from Site This Period: Not Applicable
38.4.5 Significant Changes from Previously Reported Data: Not Applicable. No data was collected during this monitoring period.

38.5 Dissolved-Phase Plume

38.5.1 Plume Concentrations: Not Measured
38.5.2 Plume Size and Location: Not Measured
38.5.3 Significant Changes from Previously Reported Data: Not Applicable. Groundwater sample analytical results from January 2006 compared to the 2L GWQS are discussed as follows:

EPA Method 602

During the 2006 sampling event; Benzene , Toluene, and Total Xylenes were detected at concentrations of 2,850 ug/L, 3,560 ug/L and 2,380 ug/L, respectively, in the USTS2633-MW01 groundwater sample. Each of these detections were above the 2L GWQS.

EPA Method 625

During the 2006 sampling event, Naphthalene was detected at a concentration of 117 ug/L which was above the 2L GWQS of 21 ug/L in the USTS2633-MW01 groundwater sample.

MADEP VPH/EPH

The C_5-C_8 Aliphatics, C_9-C_{18} Aliphatics, and C_9-C_{22} Aromatics fractions were detected at concentrations of 17,000 ug/L, 7,190 ug/L, and 2,530 ug/L, respectively, in the USTS2633-MW01 groundwater sample. Each of these detections were above the 2L GWQS.

38.6 Potential Receptors

38.6.1 Contaminated Water Supply Well(s)?: None
38.6.2 Potable Water Supply Well Within 1,000 Feet of Source Area?: No (CSA, 1998)
38.6.3 Any Water Supply Well Within 250 Feet of Source Area?: No (CSA, 1998)
38.6.4 Surface Water Body Within 500 Feet?: Yes, an unnamed stream is located approximately 125 feet southeast of the subject site.
38.6.5 Past Evidence of Vapors?: No
38.6.6 Significant Changes from Previously Reported Data: None

38.7 Remediation

38.7.1 Status: No active remediation at this time
38.7.2 Type: AFVR
38.7.3 Progress: No active remediation at this time
38.7.4 Construction Contractor: Not Applicable
38.7.5 Operating Contractor: Not Applicable

38.8 Observation and Comments

A review of the analytical data from January 2006 revealed that no contaminants were detected above any of the established GCLs. However, Benzene concentrations were high (2,850 ug/L), in addition the C_5-C_8 Aliphatics fraction was detected at 17,000 ug/L which is also high. In reviewing the available historical information for this site it appears all on-site monitoring wells have not been sampled for at least five years. Therefore, CATLIN recommends that all on-site monitoring wells be sampled per EPA Methods 601, 602, 625, 6020 (Lead only) and MADEP VPH/EPH. The analytical data from this sampling event should be evaluated and used to determine future monitoring/remediation activities. See the figure in Appendix A for the proposed monitoring schedule.

MCB Camp Lejeune should also consider installing a deep Type III monitoring well at the subject site (No deep well on-site to CATLIN's knowledge) to assess the vertical extent of dissolved-phase groundwater contamination.

SECTION 39.0

OF THE

ANNUAL MANAGEMENT REPORT
MCB CAMP LEJEUNE UST MANAGEMENT PROGRAM

MONITORING EVENT:

YEAR 2007
(JANUARY – DECEMBER 2007)

SITE-SPECIFIC MONITORING REPORT
FOR

SITE TC-341

NCDENR INCIDENT NO. 15297

39.0 EXECUTIVE SUMMARY
SITE TC-341

39.1 Site Information

39.1.1 Site Location: MCB Camp Lejeune, Camp Geiger
39.1.2 Incident Number(s): 15297
39.1.3 UTM Coordinates (WGS84) (Meters): 275412.44 Easting, 3846829.72 Northing
39.1.4 Risk Classification: Low
39.1.5 Land Use Classification: No Classification to date; Residential standards to be used for regulatory compliance, where applicable.
39.1.6 Source Type(s): 1,000 gallon No. 6 Heating Oil UST and associated piping.

39.2 Monitoring Event Information

39.2.1 Sampling Performed By: No sampling performed.
39.2.2 Date(s) of This Monitoring Event: No sampling performed during 2007.
39.2.3 Date(s) of Previous Monitoring Event: Previous sampling performed by J.A. Jones and reported in the Soil Cleanup Report and Request for No Further Action Status dated September 5, 2002.
39.2.4 Reason(s) for This Monitoring Event: Not Applicable.
39.2.5 Site Monitoring Status at Time of This Event: Site qualifies for NFA with LURs; however, it is recommended that the site be re-sampled during the next monitoring period to determine if contaminant levels have naturally attenuated to below the 2L GWQS.

39.3 Groundwater Hydraulics

39.3.1 Hydraulic Conductivity: 1.5 feet/day as calculated in the Law SA Report dated June 22, 1994.
39.3.2 Effective Porosity: Unknown
39.3.3 Hydraulic Gradient: 0.006 (Law SA)
39.3.4 Average Linear Groundwater Flow Velocity: Unknown
39.3.5 Groundwater Flow Direction: East
39.3.6 Range of Measured Water Table Elevations: 9.92 (MW15) to 16.13 (MW02) feet above MSL as of March 2001 J.A. Jones data.
39.3.7 Significant Changes from Previously Reported Data: Not Applicable. No data was collected during this monitoring period.

39.4 Free Product Plume

39.4.1 Free Product Present?: No; Removed as of 2000.
39.4.2 Free Product Thickness Measured: Not Applicable.
39.4.3 Plume Size and Location: Not Applicable.
39.4.4 Free Product Removed from Site This Period: Not Applicable.
39.4.5 Significant Changes from Previously Reported Data: Not Applicable. No data was collected during this monitoring period. Product historically located in monitoring wells USTTC341-MW01 and USTTC341-MW02.

39.5 Dissolved-Phase Plume

39.5.1 Plume Concentrations: Not Measured.
39.5.2 Plume Size and Location: Not Measured.
39.5.3 Significant Changes from Previously Reported Data: Not Applicable. This is the first Management Report prepared by CATLIN for this site. J.A. Jones collected quarterly groundwater samples from groundwater monitoring wells MW01, MW02, MW03, MW09, and MW10 from September 14, 1998 through September 29, 1999. A final groundwater sampling event occurred on March 27, 2001 where a sample was collected from monitoring wells MW01 through MW15 and MW17. Groundwater samples were analyzed via EPA Method 602 and (EPA Method 610 analyte list) EPA Method 625. Groundwater sample analytical results from the September 5, 2002 J.A. Jones Monitoring Report as compared to the 2L GWQS are discussed as follows:

EPA Method 602

Analytical data from the final sampling event in March 2001 revealed only MW01 and MW14 contained detectable EPA Method 602 compound concentrations. Monitoring well MW14 exhibited a concentration of Benzene of 6 µg/L which is above the 2L GWQS of 1 ug/L for this compound.

EPA Method 610

Naphthalene, 1-Methylnaphthalene, and 2-Methylnaphthalene were detected above their respective 2L GWQSs of 21 ug/L and 14 ug/L, but below the GCLs. Monitoring well MW01 contained noncompliant 1-Methylnaphthalene concentrations, and MW14 contained noncompliant Naphthalene, 1-Methylnaphthalene, and 2-Methylnaphthalene concentrations.

39.6 Potential Receptors

39.6.1 Contaminated Water Supply Well(s)?: No.
39.6.2 Potable Water Supply Well Within 1,000 Feet of Source Area?: No.
39.6.3 Any Water Supply Well Within 250 Feet of Source Area?: No.
39.6.4 Surface Water Body Within 500 Feet?: No.
39.6.5 Past Evidence of Vapors?: No.
39.6.6 Significant Changes from Previously Reported Data?: Not Applicable. This is the first Management Report prepared by CATLIN for this site.

39.7 Remediation

39.7.1 Status: Complete.
39.7.2 Type: Free product recovery via passive skimmer in MW02 and hand bailing where required; Soil excavation.
39.7.3 Progress: Complete.
39.7.4 Construction Contractor: J.A. Jones
39.7.5 Operating Contractor: J.A. Jones

39.8 Observations and Comments

This site qualifies for NFA status with LURs based on an NCDENR email dated March 20, 2003. J.A. Jones excavated approximately 3,500 tons of petroleum impacted soil during excavation events in 1998 and 1999/2000. Confirmation soil samples for TPH-GRO and DRO indicated that the samples did not contain detectable GRO/DRO concentrations.

Site monitoring wells were gauged quarterly for one year from September 1998 to September 1999, and a final sampling event was conducted in March 2001. During the final groundwater sampling event of all site wells, monitoring wells MW01 and MW14 contained noncompliant groundwater contaminant concentrations. CATLIN recommends sampling groundwater at these wells to assess current groundwater conditions. The sample from MW01 should be analyzed for only the 610 Compound list (via EPA 625 plus 1 and 2-Methylnaphthalene) as there were no 602 target analytes detected above 2L GWQSs. Monitoring well MW14 should be analyzed via EPA Method 602 and for the 610 Compound list (EPA 625 plus 1 and 2-Methylnaphthalene). See the figure in Appendix A for the proposed monitoring schedule.

SECTION 40.0

OF THE

ANNUAL MANAGEMENT REPORT
MCB CAMP LEJEUNE UST MANAGEMENT PROGRAM

MONITORING EVENT:

YEAR 2007
(JANUARY – DECEMBER 2007)

SITE-SPECIFIC MONITORING REPORT
FOR

SITE TC-912

NCDENR INCIDENT NO. 15198

40.0 EXECUTIVE SUMMARY
SITE TC-912

40.1 Site Information

40.1.1 Site Location: MCB Camp Lejeune, Camp Geiger
40.1.2 Incident Number(s): 15198
40.1.3 UTM Coordinates (WGS84) (Meters): 274995.84 Easting, 3845872.89 Northing
40.1.4 Risk Classification: Low
40.1.5 Land Use Classification: Residential.
40.1.6 Source Type(s): One 6,000 gallon Regular Gasoline UST; One 6,000 gallon Unleaded Gasoline UST; One 4,000 gallon Unleaded Gasoline UST; One 550 gallon Diesel UST and One 550 gallon Heating Oil UST.

40.2 Monitoring Event Information

40.2.1 Sampling Performed By: CATLIN
40.2.2 Date(s) of This Monitoring Event: July 2007
40.2.3 Date(s) of Previous Monitoring Event: Most recent groundwater sampling conducted in January 2002.
40.2.4 Reason(s) for This Monitoring Event: Determine if groundwater contaminants attenuated to concentrations below the 2L GWQSs.
40.2.5 Site Monitoring Status at Time of This Event: Site was approved for NFA with LURs in February 2005; the subject site was re-sampled during this monitoring period to determine if contaminant levels had naturally attenuated to below the 2L GWQS.

40.3 Groundwater Hydraulics

40.3.1 Hydraulic Conductivity: Unknown
40.3.2 Effective Porosity: Unknown
40.3.3 Hydraulic Gradient: Unknown
40.3.4 Average Linear Groundwater Flow Velocity: Unknown
40.3.5 Groundwater Flow Direction: Unknown
40.3.6 Range of Measured Water Table Elevations: Not Measured. However, depth to groundwater from the temporary well installed in July 2007 was measured at approximately 6.3 feet BLS.
40.3.7 Significant Changes from Previously Reported Data: None

40.4 Free Product Plume

40.4.1 Free Product Present?: No
40.4.2 Free Product Thickness Measured: Not Applicable
40.4.3 Plume Size and Location: Not Applicable
40.4.4 Free Product Removed from Site This Period: Not Applicable
40.4.5 Significant Changes from Previously Reported Data: None

40.5 Dissolved-Phase Plume

40.5.1 Plume Concentrations: See Figure 40.1
40.5.2 Plume Size and Location: See Figure 40.1
40.5.3 Significant Changes from Previously Reported Data: Not Applicable. This is the first Management Report prepared by CATLIN for this site. The groundwater sampling analytical results from January 2002 as compared to the current analytical results (July 2007) are discussed as follows:

EPA Method 602

Analytical data from the final sampling event in January 2002 revealed Benzene at a concentration of 1 ug/L in monitoring well USTTC912-MW02. This result was equal to the 2L GWQS for Benzene of 1 ug/L. Monitoring well USTTC912-MW02 was demolished or paved over and was not found in July 2007, therefore a temporary well was installed and sampled in the vicinity of former well USTTC912-MW02. The sample collected from the temporary well from July 2007 revealed no EPA Method 602 contaminant concentrations above the 2L GWQSs. See Figure 40.1.

40.6 Potential Receptors

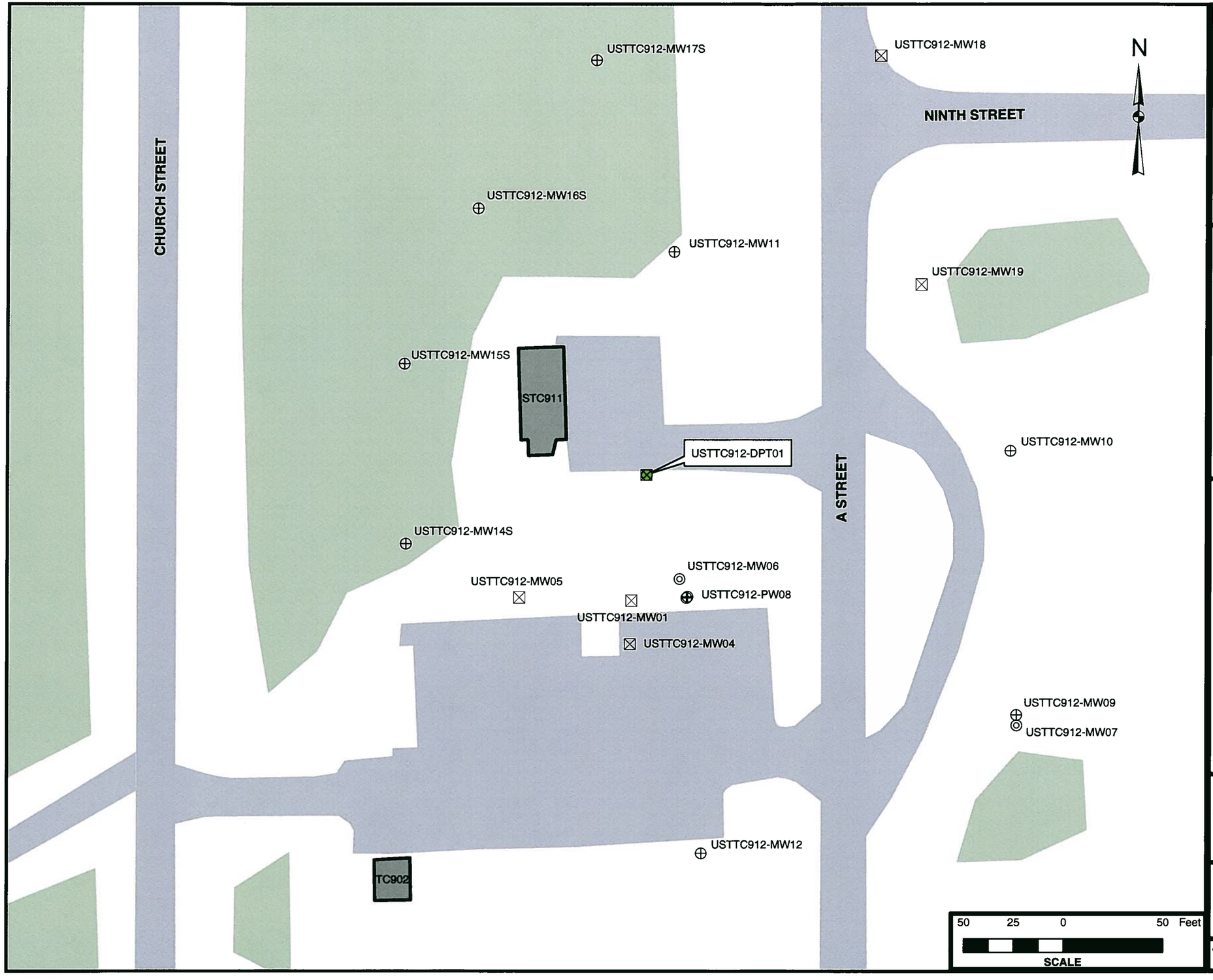
40.6.1 Contaminated Water Supply Well(s)?: No
40.6.2 Potable Water Supply Well Within 1,000 Feet of Source Area?: Yes
40.6.3 Any Water Supply Well Within 250 Feet of Source Area?: No
40.6.4 Surface Water Body Within 500 Feet?: No
40.6.5 Past Evidence of Vapors?: No
40.6.6 Significant Changes from Previously Reported Data?: Not Applicable. This is the first Management Report prepared by CATLIN for this site.

40.7 Remediation

40.7.1 Status: Complete. Remediation system operated from April 1998 to April 2001.
40.7.2 Type: AS/SVE remediation system
40.7.3 Progress: Complete.
40.7.4 Construction Contractor: J.A. Jones
40.7.5 Operating Contractor: J.A. Jones

40.8 Observations and Comments

Analytical results from the current sampling event indicate that previously detected groundwater contaminant concentrations have naturally attenuated to below 2L GWQS. CATLIN recommends that no additional groundwater sampling be conducted at the subject site. Based on historical and current sampling data, the TC-912 site is eligible for NFA without LURs. If granted, public notice will be required since site soils exhibit compounds having concentrations above the lowest MSCCs.



MCB CAMP LEJEUNE
UST MANAGEMENT PROGRAM
CALENDAR YEAR 2007

NAVFAC
Naval Facilities Engineering Command

LEGEND

- Proposed DPT Well
- Water Supply Wells
- Above Ground Storage Tank
- Underground Storage Tank
- Railroad Tracks

Walls and Fences
- FENCE
- GATE
- WALL

Analytical Results
- 2L Non-Compliant
- 2L Compliant
- EPA 602 Plume
- Buildings and Structures
- Demolished Structures
- Oil/Water Separators
- Slabs
- Roads
- Driveways
- Parking Lots
- Surface Water Bodies
- Creeks and Streams

Vegetation Cover
- Forestland
- Scrubland
- Wetland

Airfield Pavement
- HELIPAD
- RAMP
- RUNWAY
- SHLDR_OVERRUN
- TAXIWAY

NOTES

1. No EPA 602 compounds were detected above the 2L GWQS for any wells sampled during this monitoring event.

CATLIN
Engineers and Scientists

SITE TC-912
EPA METHOD 602 COLORIMETRY AND PLUME IN EXCESS OF 2L - THIRD QUARTER 2007

FIGURE **40.1**

Job No.:	Date:	Scale:	Drawn By:	Checked By:
207-002	JAN 2008	AS SHOWN	KAWS	MEM

SECTION 41.0

OF THE

ANNUAL MANAGEMENT REPORT
MCB CAMP LEJEUNE UST MANAGEMENT PROGRAM

MONITORING EVENT:

YEAR 2007
(JANUARY – DECEMBER 2007)

SITE-SPECIFIC MONITORING REPORT
FOR

SITE TT-2302

NCDENR INCIDENT NO. 23696

41.0 EXECUTIVE SUMMARY
SITE TT-2302

41.1 Site Information

41.1.1 Site Location: MCB Camp Lejeune, Tarawa Terrace
41.1.2 Incident Number(s): 23696
41.1.3 UTM Coordinates (WGS84) (Meters): 282131.72 Easting, 3845991.42 Northing
41.1.4 Risk Classification: Low
41.1.5 Land Use Classification: Residential
41.1.6 Source Type(s): 550 gallon Heating Oil UST and associated piping.

41.2 Monitoring Event Information

41.2.1 Sampling Performed By: No sampling performed.
41.2.2 Date(s) of This Monitoring Event: No sampling performed during 2007.
41.2.3 Date(s) of Previous Monitoring Event: Previous sampling performed by Mid-Atlantic Associates, Inc. (Mid-Atlantic) and reported in the Phase I LSA dated May 7, 2003.
41.2.4 Reason(s) for This Monitoring Event: Not Applicable.
41.2.5 Site Monitoring Status at Time of This Event: Site qualifies for NFA with LURs; however, it is recommended that the site be re-sampled during the next monitoring period to determine if contaminant levels have naturally attenuated to below the 2L GWQS.

41.3 Groundwater Hydraulics

41.3.1 Hydraulic Conductivity: Unknown
41.3.2 Effective Porosity: Unknown
41.3.3 Hydraulic Gradient: Unknown
41.3.4 Average Linear Groundwater Flow Velocity: Not Measured
41.3.5 Groundwater Flow Direction: Unknown
41.3.6 Range of Measured Water Table Elevations: Elevations not calculated; On July 24, 2002, depth to groundwater was measured in temporary monitoring well USTTT2302/2304-MW01 at a depth of approximately 12.32 feet BLS.
41.3.7 Significant Changes from Previously Reported Data: Not Applicable. No data was collected during this monitoring period.

41.4 Free Product Plume

41.4.1 Free Product Present?: No.
41.4.2 Free Product Thickness Measured: Not Applicable.
41.4.3 Plume Size and Location: Not Applicable.
41.4.4 Free Product Removed from Site This Period: Not Applicable.
41.4.5 Significant Changes from Previously Reported Data: Not Applicable. No data was collected during this monitoring period.

41.5 Dissolved-Phase Plume

41.5.1 Plume Concentrations: Not Measured.
41.5.2 Plume Size and Location: Not Measured.
41.5.3 Significant Changes from Previously Reported Data: Not applicable. This is the first management report prepared by CATLIN for this site. Groundwater sample analytical results from the May 2003 Mid-Atlantic LSA as compared to the 2L GWQS are discussed as follows:

The groundwater sample obtained from temporary monitoring well USTTT2302/2304-MW01 during the May 2003 Mid-Atlantic Phase I LSA was sent for laboratory analysis via EPA Methods 602, 625 + TICs, and MADEP VPH/EPH. All target analytes were either below MDLs or below applicable 2L GWQSs and GCLs, with the exception of 1-Methylnaphthalene and 2-Methylnaphthalene. These two compounds were identified as TICs with 99% and 100% match probabilities. In addition, C_9-C_{22} Aromatics were detected at <220 µg/L as compared to the 2L GWQS of 210 µg/L.

41.6 Potential Receptors

41.6.1 Contaminated Water Supply Well(s)?: No.
41.6.2 Potable Water Supply Well Within 1,000 Feet of Source Area?: No.
41.6.3 Any Water Supply Well Within 250 Feet of Source Area?: No.
41.6.4 Surface Water Body Within 500 Feet?: No.
41.6.5 Past Evidence of Vapors?: No.
41.6.6 Significant Changes from Previously Reported Data?: Not Applicable. This is the first Management Report prepared by CATLIN for this site.

41.7 Remediation

41.7.1 Status: Complete.
41.7.2 Type: Soil excavation at tank closure.
41.7.3 Progress: Complete.
41.7.4 Construction Contractor: J.A. Jones.
41.7.5 Operating Contractor: Not Applicable.

41.8 Observations and Comments

This site qualifies for NFA status with LURs based on an NCDENR email dated June 3, 2003. J.A. Jones excavated approximately 4.5 cubic yards of petroleum impacted soil during tank closure activities in 2001. Confirmation RBCA soil samples taken from within the former UST basin indicate all contaminant concentrations are below Residential MSCCs.

As determined in the Phase I LSA, all groundwater target analytes were either below MDLs or below applicable 2L GWQS and GCLs, with the exception of 1-Methylnaphthalene and 2-Methylnaphthalene. These two compounds were identified as TICs with 99% and 100% match probabilities. In addition, C_9-C_{22} Aromatics were detected at <220 µg/L as compared to the 2L GWQS of 210 µg/L. CATLIN

recommends collecting one groundwater sample from the former tank basin to assess current groundwater conditions. The sample should be analyzed per EPA Method 625 + TICs and the MADEP VPH/EPH. A temporary monitoring well will need to be installed in order to collect the groundwater sample. See the figure in Appendix A for the proposed monitoring schedule.

SECTION 42.0

OF THE

ANNUAL MANAGEMENT REPORT
MCB CAMP LEJEUNE UST MANAGEMENT PROGRAM

MONITORING EVENT:

YEAR 2007
(JANUARY – DECEMBER 2007)

SITE-SPECIFIC MONITORING REPORT
FOR

SITE TT-2477-78

NCDENR INCIDENT NO. 7176

42.0 EXECUTIVE SUMMARY
SITE TT-2477-78

42.1 Site Information

42.1.1 Site Location: MCB Camp Lejeune, Tarawa Terrace Housing Area.
42.1.2 Incident Number(s): 7176
42.1.3 UTM Coordinates (WGS84) (Meters): 282735 Easting, 3845952 Northing
42.1.4 Risk Classification: Low
42.1.5 Land Use Classification: Residential
42.1.6 Source Type(s): Building TT-2477 included one 10,000 gallon capacity gasoline UST which was abandoned in place and one 500 gallon hydraulic fluid/gear oil UST, which was removed from the site in December 1992. A 500 gallon heating oil UST was additionally removed from the site in 1992.

At Building TT-2478, four USTs were formerly located north of the pump island. The USTs were reportedly 10,000 gallon capacity and used to store unleaded gasoline (three USTs) and diesel (one UST). Engineering and Environmental Science Company (EESC) removed the USTs and associated piping in August and September of 1995.

Building TT-2453 was demolished in 2001. During demolition activities, two hydraulic lifts, one waste oil UST, one fuel oil AST, and the former UST dispenser island and associated piping were removed. Six additional USTs were reportedly removed from the site in June 1987, including tanks: TT-2453-1 and TT-2453-2 (each was 6,000 gallon capacity containing gasoline), TT-2453-3 and TT-2453-4 (each was 3,000 gallon with unknown contents), and TT-2453-5 and TT-2453-6 (heating oil tanks).

42.2 Monitoring Event Information

42.2.1 Sampling Performed By: Sovereign
42.2.2 Date(s) of This Monitoring Event: November 2007
42.2.3 Date(s) of Previous Monitoring Event: August 2005 (Shaw) and April 2006 (Sovereign)
42.2.4 Reason(s) for This Monitoring Event: Track dissolved phase plume migration and attenuation
42.2.5 Site Monitoring Status at Time of This Event: Biennial sampling of approximately 30 on-site monitoring wells per EPA Methods 602, 625 and MADEP VPH/EPH.

42.3 Groundwater Hydraulics

42.3.1 Hydraulic Conductivity: Unknown
42.3.2 Effective Porosity: Unknown
42.3.3 Hydraulic Gradient: Unknown
42.3.4 Average Linear Groundwater Flow Velocity: Unknown
42.3.5 Groundwater Flow Direction: South
42.3.6 Range of Measured Water Table Elevations: See Table 42.1
42.3.7 Significant Changes from Previously Reported Data: None

42.4 Free Product Plume

42.4.1 Free Product Present?: No
42.4.2 Free Product Thickness Measured: Not Applicable
42.4.3 Plume Size and Location: Not Applicable
42.4.4 Free Product Removed from Site This Period: Not Applicable
42.4.5 Significant Changes from Previously Reported Data: None. See Figure 42.1.

42.5 Dissolved-Phase Plume

42.5.1 Plume Concentrations: See Tables 42.2 through 42.4
42.5.2 Plume Size and Location: See Figures 42.2 through 42.4
42.5.3 Significant Changes from Previously Reported Data: The current groundwater sample analytical results as compared to the April 2006 analytical results are discussed as follows:

EPA Method 602

During the previous sampling event (April 2006), Benzene was detected at a concentration of 1.05 ug/L which was above the 2L GWQS of 1 ug/L in the USTTT2478-MW18 groundwater sample. During the current sampling event (November 2007), no EPA Method 602 compounds were detected in excess of the 2L GWQSs in monitoring well USTTT2478-MW18. See Figure 42.2.

EPA Method 625

Naphthalene was detected at a concentration of 22.7 ug/L which is above the 2L GWQS of 21 ug/L in the USTTT2477-MWOB10 groundwater sample during the current sampling event. During the previous sampling event (April 2006), no EPA Method 625 compounds were detected at concentrations in excess of the 2L GWQSs in this monitoring well. See Figure 42.3.

MADEP VPH/EPH

During the previous sampling event (April 2006), the USTTT2478-MW20 groundwater sample revealed the C_5-C_8 Aliphatics and the C_9-C_{22} Aromatics fractions at concentrations of 650 ug/L and 340 ug/L, respectively, both of which were above the 2L GWQSs. During the current sampling event (November 2007), a groundwater water sample was not collected from monitoring well USTTT2478-MW20. During the current sampling event (November 2007), the C_9-C_{22} Aromatics fraction was detected at a concentration of 414 ug/L in monitoring well USTTT2477-MW02 which is above the 2L GWQS. During the previous sampling event (April 2006), no MADEP fractions were detected above the 2L GWQSs in this monitoring well. See Figure 42.4.

42.6 Potential Receptors

42.6.1 Contaminated Water Supply Well(s)?: No
42.6.2 Potable Water Supply Well Within 1,000 Feet of Source Area?: No
42.6.3 Any Water Supply Well Within 250 Feet of Source Area?: No
42.6.4 Surface Water Body Within 500 Feet?: No
42.6.5 Past Evidence of Vapors?: No
42.6.6 Significant Changes from Previously Reported Data?: None

42.7 Remediation

42.7.1 Status: Shutdown
42.7.2 Type: Initially, 32 air sparge wells were installed to an approximate depth of 50 feet BLS, and 32 soil vapor extraction wells were installed to an approximate depth of 10 feet BLS. System operation began in October 1997. In April 2001, the system was extended by OHM Remediation Services an additional 80 feet south along Iwo Jima Boulevard and 150 feet west along Tarawa Boulevard through the addition of six AS/SVE well pairs constructed to the same details as the initial 32 well pairs.
42.7.3 Progress: Shutdown
42.7.4 Construction Contractor: Shaw (OHM Remediation Services)
42.7.5 Operating Contractor: Sovereign

42.8 Observations and Comments

Per EPA Method 625 analysis, Bis(2-ethylhexyl)phthalate was detected at concentrations above the 2L GWQS in several monitoring well during the previous and current monitoring events. It should be noted that this is not a petroleum-related compound. This compound is commonly used in plastics as a plasticizing agent. The occurrence of this compound is likely the result of sampling/laboratory artifact, resulting from the use of plastic sampling equipment and/or analytical instrument tubing.

Site TT-2477-78 is classified as Low Risk and Residential Land Use; the GCLs (groundwater) and Residential MSCCs (soil) are applicable. Based on the historical and current analytical data NFA with a LUR may be achievable at the subject site. Soil sampling conducted by Shaw in July 2005 at the request of the NCDENR revealed one compound in excess of the Residential MSCCs (Benzo(a)pyrene concentration = 0.162 mg/kg, Residential MSCC = 0.088 mg/kg). This one detection above the Residential MSCCs appears to be the only obstacle in achieving NFA with respect to soils at the subject site. It is not know as of the writing of this report if the NCDENR has commented on the results from the July 2005 Shaw soil sampling. With respect to groundwater, no contaminants during the current sampling event were detected at concentrations in excess of any established GCL, therefore NFA with a LUR for groundwater should be achievable.

CATLIN recommends that once the LUR documentation is finalized the subject site be added to this list. MCB Camp Lejeune should consider re-sampling approximately 30 monitoring wells at the subject site in approximately two years to assess current groundwater conditions in an attempt to remove the LUR.

TABLE 42.1
SITE TT-2477-78
FIELD MEASUREMENTS - JULY 2005 TO DECEMBER 2007

Well No.	Type	TOC	Date	DTW	Product Thickness	Corrected GWT Elevation
USTTT2477-MW01	T-II	25.19	8/17/2005	13.53	0.00	11.66
USTTT2477-MW01	T-II	25.19	11/7/2005	12.06	0.00	13.13
USTTT2477-MW01	T-II	25.19	4/13/2006	12.76	0.00	12.43
USTTT2477-MW01	T-II	25.19	11/27/2007	15.39	0.00	9.80
USTTT2477-MW02	T-II	25.09	8/17/2005	13.41	0.00	11.68
USTTT2477-MW02	T-II	25.09	11/7/2005	12.68	0.00	12.41
USTTT2477-MW02	T-II	25.09	11/27/2007	15.56	0.00	9.53
USTTT2477-MW03	T-II	25.00	8/11/2005	12.91	0.00	12.09
USTTT2477-MW03	T-II	25.00	11/7/2005	12.02	0.00	12.98
USTTT2477-MW03	T-II	25.00	4/13/2006	12.05	0.00	12.95
USTTT2477-MW04	T-II	21.77	8/11/2005	13.05	0.00	8.72
USTTT2477-MW04	T-II	21.77	11/7/2005	12.22	0.00	9.55
USTTT2477-MW04	T-II	21.77	4/13/2006	12.21	0.00	9.56
USTTT2477-MW05	T-II	24.89	8/11/2005	12.80	0.00	12.09
USTTT2477-MW05	T-II	24.89	11/7/2005	11.91	0.00	12.98
USTTT2477-MW05	T-II	24.89	4/13/2006	11.91	0.00	12.98
USTTT2477-MW05	T-II	24.89	11/27/2007	14.91	0.00	9.98
USTTT2477-MW06	T-II	24.54	8/11/2005	13.64	0.00	10.90
USTTT2477-MW06	T-II	24.54	11/7/2005	12.38	0.00	12.16
USTTT2477-MW06	T-II	24.54	4/13/2006	12.33	0.00	12.21
USTTT2477-MW06	T-II	24.54	11/27/2007	15.20	0.00	9.34
USTTT2477-MW07	T-III	24.91	8/11/2005	13.54	0.00	11.37
USTTT2477-MW07	T-III	24.91	11/7/2005	13.20	0.00	11.71
USTTT2477-MW07	T-III	24.91	4/13/2006	12.48	0.00	12.43

Notes:
1. T-II = Type II monitoring well
   T-III = Type III monitoring well
   RW = Recovery well
2. TOC = Top of casing elevation in feet relative to Mean Sea Level.
3. DTW = Depth to water (in feet) from top of well casing.
4. Product thickness is measured in feet.
5. GWT = Groundwater Table
6. A zero ("0.00") in the product thickness column indicates no measureable thickness.
7. GWT Elevation corrected for measurable free product, if present.

Well No.	Type	TOC	Date	DTW	Product Thickness	Corrected GWT Elevation
USTTT2477-MW07	T-III	24.91	11/27/2007	14.62	0.00	10.29
USTTT2477-MW08	T-II	24.57	11/7/2005	12.26	0.00	12.31
USTTT2477-MW08	T-II	24.57	4/13/2006	12.13	0.00	12.44
USTTT2477-MW09	T-II	25.52	8/11/2005	13.69	0.00	11.83
USTTT2477-MW09	T-II	25.52	11/7/2005	13.90	0.00	11.62
USTTT2477-MW09	T-II	25.52	4/13/2006	13.42	0.00	12.10
USTTT2477-MW09	T-II	25.52	11/27/2007	16.51	0.00	9.01
USTTT2477-MW10	T-II	26.33	8/15/2005	16.35	0.00	9.98
USTTT2477-MW10	T-II	26.33	11/7/2005	15.55	0.00	10.78
USTTT2477-MW10	T-II	26.33	4/13/2006	15.32	0.00	11.01
USTTT2477-MW10	T-II	26.33	11/27/2007	17.89	0.00	8.44
USTTT2477-MW11	T-III	26.39	8/15/2005	17.39	0.00	9.00
USTTT2477-MW11	T-III	26.39	11/7/2005	15.58	0.00	10.81
USTTT2477-MW11	T-III	26.39	4/13/2006	21.90	0.00	4.49
USTTT2477-MW11	T-III	26.39	11/27/2007	16.99	0.00	9.40
USTTT2477-MW12	T-II	26.25	11/7/2005	16.45	0.00	9.80
USTTT2477-MW13	T-II	26.27	11/7/2005	16.17	0.00	10.10
USTTT2477-MW13	T-II	26.27	11/27/2007	18.36	0.00	7.91
USTTT2477-MW14	T-II	23.00	11/7/2005	13.32	0.00	9.68
USTTT2477-MW14	T-II	23.00	11/27/2007	15.32	0.00	7.68
USTTT2477-MWOB01			11/27/2007	20.92	0.00	
USTTT2477-MWOB10			11/27/2007	11.57	0.00	
USTTT2477-OB1			8/15/2005	19.80	0.00	
USTTT2477-OB10		27.09	8/15/2005	19.50	0.00	7.59
USTTT2477-OB10		27.09	4/13/2006	15.93	0.00	11.16
USTTT2478-MW01	T-II	20.25	11/7/2005	9.57	0.00	10.68
USTTT2478-MW01	T-II	20.25	4/13/2006	9.38	0.00	10.87

Notes:
1. T-II = Type II monitoring well
   T-III = Type III monitoring well
   RW = Recovery well
2. TOC = Top of casing elevation in feet relative to Mean Sea Level.
3. DTW = Depth to water (in feet) from top of well casing.
4. Product thickness is measured in feet.
5. GWT = Groundwater Table
6. A zero ("0.00") in the product thickness column indicates no measureable thickness.
7. GWT Elevation corrected for measurable free product, if present.

Well No.	Type	TOC	Date	DTW	Product Thickness	Corrected GWT Elevation
USTTT2478-MW01	T-II	20.25	11/27/2007	13.62	0.00	6.63
USTTT2478-MW03	T-II	23.99	8/11/2005	10.65	0.00	13.34
USTTT2478-MW03	T-II	23.99	11/7/2005	9.92	0.00	14.07
USTTT2478-MW03	T-II	23.99	4/13/2006	9.79	0.00	14.20
USTTT2478-MW05	T-II	24.32	11/7/2005	10.11	0.00	14.21
USTTT2478-MW06	T-II	24.34	8/11/2005	11.10	0.00	13.24
USTTT2478-MW06	T-II	24.34	11/7/2005	10.32	0.00	14.02
USTTT2478-MW06	T-II	24.34	4/13/2006	10.19	0.00	14.15
USTTT2478-MW06	T-II	24.34	11/27/2007	13.55	0.00	10.79
USTTT2478-MW09	T-II	24.09	8/12/2005	9.30	0.00	14.79
USTTT2478-MW09	T-II	24.09	11/7/2005	8.58	0.00	15.51
USTTT2478-MW09	T-II	24.09	4/13/2006	8.58	0.00	15.51
USTTT2478-MW09	T-II	24.09	11/27/2007	11.77	0.00	12.32
USTTT2478-MW10	T-II	23.07	8/11/2005	10.87	0.00	12.20
USTTT2478-MW10	T-II	23.07	11/7/2005	10.22	0.00	12.85
USTTT2478-MW10	T-II	23.07	4/13/2006	10.21	0.00	12.86
USTTT2478-MW10	T-II	23.07	11/27/2007	13.32	0.00	9.75
USTTT2478-MW12	T-II	22.09	11/7/2005	10.03	0.00	12.06
USTTT2478-MW13	T-II	24.50	8/12/2005	11.90	0.00	12.60
USTTT2478-MW13	T-II	24.50	11/7/2005	11.07	0.00	13.43
USTTT2478-MW13	T-II	24.50	4/13/2006	10.40	0.00	14.10
USTTT2478-MW13	T-II	24.50	11/27/2007	14.08	0.00	10.42
USTTT2478-MW14	T-II	23.89	8/11/2005	10.92	0.00	12.97
USTTT2478-MW14	T-II	23.89	11/7/2005	10.21	0.00	13.68
USTTT2478-MW14	T-II	23.89	4/13/2006	10.05	0.00	13.84
USTTT2478-MW14	T-II	23.89	11/27/2007	13.29	0.00	10.60
USTTT2478-MW14D	T-III	23.94	8/11/2005	11.02	0.00	12.92
USTTT2478-MW14D	T-III	23.94	11/7/2005	10.27	0.00	13.67

Notes:
1. T-II = Type II monitoring well
   T-III = Type III monitoring well
   RW = Recovery well
2. TOC = Top of casing elevation in feet relative to Mean Sea Level.
3. DTW = Depth to water (in feet) from top of well casing.
4. Product thickness is measured in feet.
5. GWT = Groundwater Table
6. A zero ("0.00") in the product thickness column indicates no measureable thickness.
7. GWT Elevation corrected for measurable free product, if present.

Well No.	Type	TOC	Date	DTW	Product Thickness	Corrected GWT Elevation
USTTT2478-MW14D	T-III	23.94	4/13/2006	9.65	0.00	14.29
USTTT2478-MW14D	T-III	23.94	11/27/2007	12.84	0.00	11.10
USTTT2478-MW15	T-II	24.43	8/11/2005	10.75	0.00	13.68
USTTT2478-MW15	T-II	24.43	11/7/2005	9.85	0.00	14.58
USTTT2478-MW15	T-II	24.43	4/13/2006	9.81	0.00	14.62
USTTT2478-MW15	T-II	24.43	11/27/2007	13.29	0.00	11.14
USTTT2478-MW16	T-II	22.72	8/12/2005	11.99	0.00	10.73
USTTT2478-MW16	T-II	22.72	11/7/2005	11.55	0.00	11.17
USTTT2478-MW16	T-II	22.72	4/13/2006	10.75	0.00	11.97
USTTT2478-MW17	T-II	25.20	8/12/2005	14.85	0.00	10.35
USTTT2478-MW17	T-II	25.20	11/7/2005	14.30	0.00	10.90
USTTT2478-MW17	T-II	25.20	4/13/2006	14.01	0.00	11.19
USTTT2478-MW17	T-II	25.20	11/27/2007	16.55	0.00	8.65
USTTT2478-MW17D	T-III	25.33	8/12/2005	15.00	0.00	10.33
USTTT2478-MW17D	T-III	25.33	11/7/2005	14.15	0.00	11.18
USTTT2478-MW17D	T-III	25.33	4/13/2006	13.82	0.00	11.51
USTTT2478-MW18	T-II	25.60	8/12/2005	15.05	0.00	10.55
USTTT2478-MW18	T-II	25.60	11/7/2005	14.27	0.00	11.33
USTTT2478-MW18	T-II	25.60	4/13/2006	13.76	0.00	11.84
USTTT2478-MW18	T-II	25.60	11/27/2007	16.80	0.00	8.80
USTTT2478-MW19	T-II	25.02	8/12/2005	13.60	0.00	11.42
USTTT2478-MW19	T-II	25.02	11/7/2005	12.81	0.00	12.21
USTTT2478-MW19	T-II	25.02	4/13/2006	12.53	0.00	12.49
USTTT2478-MW19	T-II	25.02	11/27/2007	15.59	0.00	9.43
USTTT2478-MW20	T-II	26.37	8/15/2005	18.50	0.00	7.87
USTTT2478-MW20	T-II	26.37	11/7/2005	17.75	0.00	8.62
USTTT2478-MW21D	T-III	26.76	8/15/2005	18.85	0.00	7.91
USTTT2478-MW21D	T-III	26.76	11/7/2005	18.01	0.00	8.75
USTTT2478-MW21D	T-III	26.76	4/13/2006	17.75	0.00	9.01

Notes:
1. T-II = Type II monitoring well
   T-III = Type III monitoring well
   RW = Recovery well
2. TOC = Top of casing elevation in feet relative to Mean Sea Level.
3. DTW = Depth to water (in feet) from top of well casing.
4. Product thickness is measured in feet.
5. GWT = Groundwater Table
6. A zero ("0.00") in the product thickness column indicates no measureable thickness.
7. GWT Elevation corrected for measurable free product, if present.

Well No.	Type	TOC	Date	DTW	Product Thickness	Corrected GWT Elevation
USTTT2478-MW22	T-II	22.94	11/7/2005	15.78	0.00	7.16
USTTT2478-MW22	T-II	22.94	8/18/2006	16.29	0.00	6.65
USTTT2478-MW23	T-II	21.72	11/7/2005	15.55	0.00	6.17
USTTT2478-MW23	T-II	21.72	11/27/2007	16.63	0.00	5.09
USTTT2478-MW24	T-II	23.00	11/7/2005	16.28	0.00	6.72
USTTT2478-MW24	T-II	23.00	4/13/2006	16.23	0.00	6.77
USTTT2478-MW24	T-II	23.00	11/27/2007	17.34	0.00	5.66
USTTT2478-MW25	T-II	25.34	8/12/2005	17.57	0.00	7.77
USTTT2478-MW25	T-II	25.34	11/7/2005	16.91	0.00	8.43
USTTT2478-MW25	T-II	25.34	4/13/2006	16.91	0.00	8.43
USTTT2478-MWPVC101	T-II	26.85	8/18/2005	19.76	0.00	7.09
USTTT2478-MWPVC101	T-II	26.85	4/13/2006	19.19	0.00	7.66
USTTT2478-MWPVC101	T-II	26.85	11/27/2007	20.76	0.00	6.09
USTTT2478-MWSS100		24.28	8/15/2005	19.02	0.00	5.26
USTTT2478-MWSS100		24.28	4/13/2006	18.39	0.00	5.89
USTTT2478-MWSS100		24.28	11/27/2007	18.68	0.00	5.60
USTTT2478-PW01	T-III	23.63	8/11/2005	10.36	0.00	13.27
USTTT2478-PW01	T-III	23.63	11/7/2005	9.85	0.00	13.78
USTTT2478-PW01	T-III	23.63	4/13/2006	9.36	0.00	14.27

Notes:
1. T-II = Type II monitoring well
   T-III = Type III monitoring well
   RW = Recovery well
2. TOC = Top of casing elevation in feet relative to Mean Sea Level.
3. DTW = Depth to water (in feet) from top of well casing.
4. Product thickness is measured in feet.
5. GWT = Groundwater Table
6. A zero ("0.00") in the product thickness column indicates no measureable thickness.
7. GWT Elevation corrected for measurable free product, if present.

TABLE 42.2

SITE TT-2477-78

GROUNDWATER LABORATORY ANALYTICAL RESULTS - JULY 2005 TO DECEMBER 2007

EPA METHOD 602

Contaminant of Concern →		Benzene	Diisopropyl ether (DIPE)	Ethylbenzene	Methyl Tert Butyl Ether	Methyl-tert butyl ether	Tetrachloroethene	Toluene	Total Xylenes	Xylenes (total)
Well ID	Date									
2L GWQS		1	70	550	200	200	0.7	1000	530	530
GCL		5000	70000	550000	200000	200000	700	257500	87500	87500
USTTT2477-MW01	8/17/2005	0.70	BQL	0.58	BQL	BQL	BQL	BQL	BQL	1.70
USTTT2477-MW01	4/12/2006	0.66	BQL	0.85	BQL	BQL	BQL	2.39	BQL	1.48
USTTT2477-MW01	11/28/2007	BQL	BQL	1.00	BQL	BQL	BQL	0.51	BQL	BQL
USTTT2477-MW02	8/17/2005	BQL	BQL	0.55	BQL	BQL	BQL	BQL	BQL	BQL
USTTT2477-MW02	4/12/2006	BQL	BQL	BQL	BQL	BQL	BQL	6.30	BQL	0.77
USTTT2477-MW02	11/28/2007	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
USTTT2477-MW03	8/11/2005	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
USTTT2477-MW04	8/11/2005	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL

Notes:
1. 2L GWQS = North Carolina groundwater quality standard 15A NCAC 2L .0202
2. GCL = Gross Contamination Levels for ground water as defined in "Guidelines for Assessment and Corrective Action" North Carolina Underground Storage Tank Section, effective July 1, 2001
3. All units are in ug/L (Micrograms per Liter)
4. BQL = Below Quantitaion Limits
5. A zero in the 2L GWQS row indicates the 2L Standard is equal to the laboratory detection limit
6. A zero in the GCL row indicates a GCL has not been established
7. Shaded concentrations indicate exceedance of the 2L GWQS
8. Only compounds which were detected are shown on table. All other compounds were BQL
9. Please note, compounds reported in duplicate columns are the result of multiple laboratories submitting EDD data with different nomenclature. Unless BQL appears in both duplicate columns, a detection is present and that concentration is reported numerically.

TABLE 42.2

SITE TT-2477-78

GROUNDWATER LABORATORY ANALYTICAL RESULTS - JULY 2005 TO DECEMBER 2007

EPA METHOD 602

Contaminant of Concern →		Benzene	Diisopropyl ether (DIPE)	Ethylbenzene	Methyl Tert Butyl Ether	Methyl-tert butyl ether	Tetrachloroethene	Toluene	Total Xylenes	Xylenes (total)
Well ID	Date									
2L GWQS		1	70	550	200	200	0.7	1000	530	530
GCL		5000	70000	550000	200000	200000	700	257500	87500	87500
USTTT2477-MW05	8/11/2005	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
USTTT2477-MW05	11/29/2007	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
USTTT2477-MW06	8/11/2005	BQL	BQL	BQL	8.00	BQL	BQL	BQL	BQL	BQL
USTTT2477-MW06	8/17/2005	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
USTTT2477-MW06	4/12/2006	BQL	BQL	BQL	BQL	BQL	BQL	4.85	BQL	BQL
USTTT2477-MW06	11/29/2007	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
USTTT2477-MW07	8/11/2005	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
USTTT2477-MW07	11/29/2007	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL

Notes:
1. 2L GWQS = North Carolina groundwater quality standard 15A NCAC 2L .0202
2. GCL = Gross Contamination Levels for ground water as defined in "Guidelines for Assessment and Corrective Action" North Carolina Underground Storage Tank Section, effective July 1, 2001
3. All units are in ug/L (Micrograms per Liter)
4. BQL = Below Quantitaion Limits
5. A zero in the 2L GWQS row indicates the 2L Standard is equal to the laboratory detection limit
6. A zero in the GCL row indicates a GCL has not been established
7. Shaded concentrations indicate exceedance of the 2L GWQS
8. Only compounds which were detected are shown on table. All other compounds were BQL
9. Please note, compounds reported in duplicate columns are the result of multiple laboratories submitting EDD data with different nomenclature. Unless BQL appears in both duplicate columns, a detection is present and that concentration is reported numerically.

TABLE 42.2

SITE TT-2477-78

GROUNDWATER LABORATORY ANALYTICAL RESULTS - JULY 2005 TO DECEMBER 2007

EPA METHOD 602

Contaminant of Concern →		Benzene	Diisopropyl ether (DIPE)	Ethylbenzene	Methyl Tert Butyl Ether	Methyl-tert butyl ether	Tetrachloroethene	Toluene	Total Xylenes	Xylenes (total)
Well ID	Date									
2L GWQS		1	70	550	200	200	0.7	1000	530	530
GCL		5000	70000	550000	200000	200000	700	257500	87500	87500
USTTT2477-MW09	8/11/2005	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
USTTT2477-MW09	11/29/2007	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
USTTT2477-MW10	11/28/2007	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
USTTT2477-MW11	8/15/2005	BQL	BQL	BQL	BQL	BQL	1.50	BQL	BQL	BQL
USTTT2477-MW11	4/12/2006	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
USTTT2477-MW11	11/28/2007	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
USTTT2477-MW13	11/29/2007	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
USTTT2477-MW14	4/11/2006	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
USTTT2477-MW14	11/29/2007	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL

Notes:
1. 2L GWQS = North Carolina groundwater quality standard 15A NCAC 2L .0202
2. GCL = Gross Contamination Levels for ground water as defined in "Guidelines for Assessment and Corrective Action" North Carolina Underground Storage Tank Section, effective July 1, 2001
3. All units are in ug/L (Micrograms per Liter)
4. BQL = Below Quantitaion Limits
5. A zero in the 2L GWQS row indicates the 2L Standard is equal to the laboratory detection limit
6. A zero in the GCL row indicates a GCL has not been established
7. Shaded concentrations indicate exceedance of the 2L GWQS
8. Only compounds which were detected are shown on table. All other compounds were BQL
9. Please note, compounds reported in duplicate columns are the result of multiple laboratories submitting EDD data with different nomenclature. Unless BQL appears in both duplicate columns, a detection is present and that concentration is reported numerically.

TABLE 42.2

SITE TT-2477-78

GROUNDWATER LABORATORY ANALYTICAL RESULTS - JULY 2005 TO DECEMBER 2007

EPA METHOD 602

Contaminant of Concern →		Benzene	Diisopropyl ether (DIPE)	Ethylbenzene	Methyl Tert Butyl Ether	Methyl-tert butyl ether	Tetrachloroethene	Toluene	Total Xylenes	Xylenes (total)
Well ID	**Date**									
2L GWQS		1	70	550	200	200	0.7	1000	530	530
GCL		5000	70000	550000	200000	200000	700	257500	87500	87500
USTTT2477-MWOB01	8/15/2005	BQL	BQL	**561.00**	BQL	BQL	BQL	**1930.00**	BQL	**2140.00**
USTTT2477-MWOB01	4/12/2006	BQL	BQL	256.00	BQL	BQL	BQL	591.00	BQL	**851.00**
USTTT2477-MWOB01	11/28/2007	BQL	BQL	**560.00**	BQL	BQL	BQL	631.00	**1778.00**	BQL
USTTT2477-MWOB10	8/15/2005	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
USTTT2477-MWOB10	4/11/2006	**13.60**	BQL	59.40	BQL	BQL	BQL	18.90	BQL	94.50
USTTT2477-MWOB10	11/28/2007	**122.00**	BQL	146.00	BQL	BQL	BQL	4.47	57.00	BQL
USTTT2477-MWPVC101	8/18/2005	**1930.00**	BQL	**950.00**	BQL	BQL	BQL	83.70	BQL	**1870.00**
USTTT2477-MWPVC101	4/11/2006	**1450.00**	BQL	**1850.00**	BQL	BQL	BQL	476.00	BQL	**1790.00**
USTTT2478-MW03	8/11/2005	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL

Notes:
1. 2L GWQS = North Carolina groundwater quality standard 15A NCAC 2L .0202
2. GCL = Gross Contamination Levels for ground water as defined in "Guidelines for Assessment and Corrective Action" North Carolina Underground Storage Tank Section, effective July 1, 2001
3. All units are in ug/L (Micrograms per Liter)
4. BQL = Below Quantitaion Limits
5. A zero in the 2L GWQS row indicates the 2L Standard is equal to the laboratory detection limit
6. A zero in the GCL row indicates a GCL has not been established
7. Shaded concentrations indicate exceedance of the 2L GWQS
8. Only compounds which were detected are shown on table. All other compounds were BQL
9. Please note, compounds reported in duplicate columns are the result of multiple laboratories submitting EDD data with different nomenclature. Unless BQL appears in both duplicate columns, a detection is present and that concentration is reported numerically.

TABLE 42.2

SITE TT-2477-78

GROUNDWATER LABORATORY ANALYTICAL RESULTS - JULY 2005 TO DECEMBER 2007

EPA METHOD 602

Contaminant of Concern →		Benzene	Diisopropyl ether (DIPE)	Ethylbenzene	Methyl Tert Butyl Ether	Methyl-tert butyl ether	Tetrachloroethene	Toluene	Total Xylenes	Xylenes (total)
Well ID	Date									
2L GWQS		1	70	550	200	200	0.7	1000	530	530
GCL		5000	70000	550000	200000	200000	700	257500	87500	87500
USTTT2478-MW06	8/11/2005	0.87	BQL	BQL	3.40	BQL	BQL	BQL	BQL	BQL
USTTT2478-MW06	11/28/2007	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
USTTT2478-MW09	8/12/2005	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
USTTT2478-MW09	11/28/2007	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
USTTT2478-MW10	8/11/2005	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
USTTT2478-MW10	11/28/2007	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
USTTT2478-MW13	8/12/2005	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
USTTT2478-MW13	11/29/2007	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL

Notes:
1. 2L GWQS = North Carolina groundwater quality standard 15A NCAC 2L .0202
2. GCL = Gross Contamination Levels for ground water as defined in "Guidelines for Assessment and Corrective Action" North Carolina Underground Storage Tank Section, effective July 1, 2001
3. All units are in ug/L (Micrograms per Liter)
4. BQL = Below Quantitaion Limits
5. A zero in the 2L GWQS row indicates the 2L Standard is equal to the laboratory detection limit
6. A zero in the GCL row indicates a GCL has not been established
7. Shaded concentrations indicate exceedance of the 2L GWQS
8. Only compounds which were detected are shown on table. All other compounds were BQL
9. Please note, compounds reported in duplicate columns are the result of multiple laboratories submitting EDD data with different nomenclature. Unless BQL appears in both duplicate columns, a detection is present and that concentration is reported numerically.

TABLE 42.2

SITE TT-2477-78

GROUNDWATER LABORATORY ANALYTICAL RESULTS - JULY 2005 TO DECEMBER 2007

EPA METHOD 602

Contaminant of Concern →		Benzene	Diisopropyl ether (DIPE)	Ethylbenzene	Methyl Tert Butyl Ether	Methyl-tert butyl ether	Tetrachloroethene	Toluene	Total Xylenes	Xylenes (total)
Well ID	Date									
2L GWQS		1	70	550	200	200	0.7	1000	530	530
GCL		5000	70000	550000	200000	200000	700	257500	87500	87500
USTTT2478-MW14	8/11/2005	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
USTTT2478-MW14	11/28/2007	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
USTTT2478-MW14D	8/11/2005	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
USTTT2478-MW14D	11/28/2007	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
USTTT2478-MW15	8/11/2005	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
USTTT2478-MW15	11/28/2007	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
USTTT2478-MW16	8/12/2005	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL

Notes:
1. 2L GWQS = North Carolina groundwater quality standard 15A NCAC 2L .0202
2. GCL = Gross Contamination Levels for ground water as defined in "Guidelines for Assessment and Corrective Action" North Carolina Underground Storage Tank Section, effective July 1, 2001
3. All units are in ug/L (Micrograms per Liter)
4. BQL = Below Quantitaion Limits
5. A zero in the 2L GWQS row indicates the 2L Standard is equal to the laboratory detection limit
6. A zero in the GCL row indicates a GCL has not been established
7. Shaded concentrations indicate exceedance of the 2L GWQS
8. Only compounds which were detected are shown on table. All other compounds were BQL
9. Please note, compounds reported in duplicate columns are the result of multiple laboratories submitting EDD data with different nomenclature. Unless BQL appears in both duplicate columns, a detection is present and that concentration is reported numerically.

TABLE 42.2

SITE TT-2477-78

GROUNDWATER LABORATORY ANALYTICAL RESULTS - JULY 2005 TO DECEMBER 2007

EPA METHOD 602

Contaminant of Concern →		Benzene	Diisopropyl ether (DIPE)	Ethylbenzene	Methyl Tert Butyl Ether	Methyl-tert butyl ether	Tetrachloroethene	Toluene	Total Xylenes	Xylenes (total)
Well ID	Date									
2L GWQS		1	70	550	200	200	0.7	1000	530	530
GCL		5000	70000	550000	200000	200000	700	257500	87500	87500
USTTT2478-MW17	8/12/2005	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
USTTT2478-MW17	4/11/2006	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
USTTT2478-MW17	11/29/2007	BQL	BQL	BQL	BQL	5.68	BQL	BQL	BQL	BQL
USTTT2478-MW17D	8/12/2005	BQL	BQL	BQL	0.58	BQL	BQL	BQL	BQL	BQL
USTTT2478-MW18	8/12/2005	BQL	BQL	3.30	BQL	BQL	BQL	BQL	BQL	2.40
USTTT2478-MW18	4/11/2006	1.05	BQL	BQL	BQL	BQL	BQL	1.17	BQL	BQL
USTTT2478-MW18	11/29/2007	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
USTTT2478-MW19	8/12/2005	BQL	BQL	3.20	BQL	BQL	BQL	BQL	BQL	1.20
USTTT2478-MW19	11/29/2007	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL

Notes:
1. 2L GWQS = North Carolina groundwater quality standard 15A NCAC 2L .0202
2. GCL = Gross Contamination Levels for ground water as defined in "Guidelines for Assessment and Corrective Action" North Carolina Underground Storage Tank Section, effective July 1, 2001
3. All units are in ug/L (Micrograms per Liter)
4. BQL = Below Quantitaion Limits
5. A zero in the 2L GWQS row indicates the 2L Standard is equal to the laboratory detection limit
6. A zero in the GCL row indicates a GCL has not been established
7. Shaded concentrations indicate exceedance of the 2L GWQS
8. Only compounds which were detected are shown on table. All other compounds were BQL
9. Please note, compounds reported in duplicate columns are the result of multiple laboratories submitting EDD data with different nomenclature. Unless BQL appears in both duplicate columns, a detection is present and that concentration is reported numerically.

TABLE 42.2

SITE TT-2477-78

GROUNDWATER LABORATORY ANALYTICAL RESULTS - JULY 2005 TO DECEMBER 2007

EPA METHOD 602

Contaminant of Concern →		Benzene	Diisopropyl ether (DIPE)	Ethylbenzene	Methyl Tert Butyl Ether	Methyl-tert butyl ether	Tetrachloroethene	Toluene	Total Xylenes	Xylenes (total)
Well ID	Date									
2L GWQS		1	70	550	200	200	0.7	1000	530	530
GCL		5000	70000	550000	200000	200000	700	257500	87500	87500
USTTT2478-MW20	4/11/2006	BQL	2.06	80.60	BQL	3.84	BQL	90.40	BQL	310.00
USTTT2478-MW23	4/11/2006	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
USTTT2478-MW23	11/29/2007	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
USTTT2478-MW24	4/11/2006	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
USTTT2478-MW24	11/29/2007	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
USTTT2478-MW25	8/12/2005	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
USTTT2478-MWPVC101	11/29/2007	552.00	BQL	1770.00	BQL	BQL	BQL	11.70	343.00	BQL

Notes:
1. 2L GWQS = North Carolina groundwater quality standard 15A NCAC 2L .0202
2. GCL = Gross Contamination Levels for ground water as defined in "Guidelines for Assessment and Corrective Action" North Carolina Underground Storage Tank Section, effective July 1, 2001
3. All units are in ug/L (Micrograms per Liter)
4. BQL = Below Quantitaion Limits
5. A zero in the 2L GWQS row indicates the 2L Standard is equal to the laboratory detection limit
6. A zero in the GCL row indicates a GCL has not been established
7. Shaded concentrations indicate exceedance of the 2L GWQS
8. Only compounds which were detected are shown on table. All other compounds were BQL
9. Please note, compounds reported in duplicate columns are the result of multiple laboratories submitting EDD data with different nomenclature. Unless BQL appears in both duplicate columns, a detection is present and that concentration is reported numerically.

TABLE 42.2

SITE TT-2477-78

GROUNDWATER LABORATORY ANALYTICAL RESULTS - JULY 2005 TO DECEMBER 2007

EPA METHOD 602

Contaminant of Concern →		Benzene	Diisopropyl ether (DIPE)	Ethylbenzene	Methyl Tert Butyl Ether	Methyl-tert butyl ether	Tetrachloroethene	Toluene	Total Xylenes	Xylenes (total)
Well ID	Date									
2L GWQS		1	70	550	200	200	0.7	1000	530	530
GCL		5000	70000	550000	200000	200000	700	257500	87500	87500
USTTT2478-MWSS100	8/15/2005	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
USTTT2478-MWSS100	3/11/2006	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
USTTT2478-MWSS100	11/29/2007	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL

Notes:
1. 2L GWQS = North Carolina groundwater quality standard 15A NCAC 2L .0202
2. GCL = Gross Contamination Levels for ground water as defined in "Guidelines for Assessment and Corrective Action" North Carolina Underground Storage Tank Section, effective July 1, 2001
3. All units are in ug/L (Micrograms per Liter)
4. BQL = Below Quantitaion Limits
5. A zero in the 2L GWQS row indicates the 2L Standard is equal to the laboratory detection limit
6. A zero in the GCL row indicates a GCL has not been established
7. Shaded concentrations indicate exceedance of the 2L GWQS
8. Only compounds which were detected are shown on table. All other compounds were BQL
9. Please note, compounds reported in duplicate columns are the result of multiple laboratories submitting EDD data with different nomenclature. Unless BQL appears in both duplicate columns, a detection is present and that concentration is reported numerically.

TABLE 42.3

SITE TT-2477-78

GROUNDWATER LABORATORY ANALYTICAL RESULTS - JULY 2005 TO DECEMBER 2007

EPA METHOD 625

Contaminant of Concern →		2,4-Dimethylphenol	2-Methylnaphthalene	Methylphenol-4&3	Acenaphthene	bis(2-Chloroethoxy)methane	Bis(2-ethylhexyl)phthalate	Diethylphthalate	Fluorene	Naphthalene	Nitrobenzene	Phenanthrene	Phenol
Well ID	**Date**												
2L GWQS		140	14	3.5	80	0	2.5	5000	280	21	0	210	300
GCL		140000	12500	0	2120	0	2500	0	950	15500	0	410	335000
USTTT2477-MW01	8/17/2005	BQL	3.80	**15.00**	BQL	BQL	**273.00**	BQL	2.10	2.00	BQL	BQL	BQL
USTTT2477-MW01	4/12/2006	BQL	BQL	BQL	BQL	BQL	**10.60**	BQL	2.10	3.00	BQL	BQL	BQL
USTTT2477-MW01	11/28/2007	BQL	BQL	BQL	BQL	BQL	**3.10**	BQL	1.90	5.50	BQL	1.50	BQL
USTTT2477-MW02	8/17/2005	BQL	7.10	**8.20**	1.20	BQL	**71.00**	BQL	2.30	1.60	BQL	1.50	BQL
USTTT2477-MW02	4/12/2006	BQL	BQL	BQL	BQL	BQL	**5.40**	4.90	1.80	1.10	BQL	BQL	BQL
USTTT2477-MW02	11/28/2007	BQL	BQL	BQL	3.90	BQL	**46.00**	BQL	5.60	BQL	BQL	9.70	BQL
USTTT2477-MW03	8/11/2005	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
USTTT2477-MW04	8/11/2005	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
USTTT2477-MW05	8/11/2005	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
USTTT2477-MW05	11/29/2007	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL

Notes:
1. 2L GWQS = North Carolina groundwater quality standard 15A NCAC 2L .0202
2. GCL = Gross Contamination Levels for ground water as defined in "Guidelines for Assessment and Corrective Action" North Carolina Underground Storage Tank Section, effective July 1, 2001
3. All units are in ug/L (Micrograms per Liter)
4. BQL = Below Quantitaion Limits
5. A zero in the 2L GWQS row indicates the 2L Standard is equal to the laboratory detection limit
6. A zero in the GCL row indicates a GCL has not been established
7. Shaded concentrations indicate exceedance of the 2L GWQS
8. Only compounds which were detected are shown on table. All other compounds were BQL

TABLE 42.3

SITE TT-2477-78

GROUNDWATER LABORATORY ANALYTICAL RESULTS - JULY 2005 TO DECEMBER 2007

EPA METHOD 625

Contaminant of Concern →		2,4-Dimethylphenol	2-Methylnaphthalene	Methylphenol-4&3	Acenaphthene	bis(2-Chloroethoxy)methane	Bis(2-ethylhexyl)phthalate	Diethylphthalate	Fluorene	Naphthalene	Nitrobenzene	Phenanthrene	Phenol
Well ID	**Date**												
2L GWQS		140	14	3.5	80	0	2.5	5000	280	21	0	210	300
GCL		140000	12500	0	2120	0	2500	0	950	15500	0	410	335000
USTTT2477-MW06	8/11/2005	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
USTTT2477-MW06	8/17/2005	BQL	BQL	BQL	BQL	BQL	233.00	BQL	BQL	BQL	BQL	BQL	BQL
USTTT2477-MW06	4/12/2006	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
USTTT2477-MW06	11/29/2007	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
USTTT2477-MW07	8/11/2005	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
USTTT2477-MW07	11/29/2007	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
USTTT2477-MW09	8/11/2005	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
USTTT2477-MW09	11/29/2007	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
USTTT2477-MW10	11/28/2007	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL

Notes:
1. 2L GWQS = North Carolina groundwater quality standard 15A NCAC 2L .0202
2. GCL = Gross Contamination Levels for ground water as defined in "Guidelines for Assessment and Corrective Action" North Carolina Underground Storage Tank Section, effective July 1, 2001
3. All units are in ug/L (Micrograms per Liter)
4. BQL = Below Quantitaion Limits
5. A zero in the 2L GWQS row indicates the 2L Standard is equal to the laboratory detection limit
6. A zero in the GCL row indicates a GCL has not been established
7. Shaded concentrations indicate exceedance of the 2L GWQS
8. Only compounds which were detected are shown on table. All other compounds were BQL

TABLE 42.3

SITE TT-2477-78

GROUNDWATER LABORATORY ANALYTICAL RESULTS - JULY 2005 TO DECEMBER 2007

EPA METHOD 625

Contaminant of Concern →		2,4-Dimethylphenol	2-Methylnaphthalene	Methylphenol-4&3	Acenaphthene	bis(2-Chloroethoxy)methane	Bis(2-ethylhexyl)phthalate	Diethylphthalate	Fluorene	Naphthalene	Nitrobenzene	Phenanthrene	Phenol
Well ID	**Date**												
2L GWQS		140	14	3.5	80	0	2.5	5000	280	21	0	210	300
GCL		140000	12500	0	2120	0	2500	0	950	15500	0	410	335000
USTTT2477-MW11	8/15/2005	BQL	BQL	BQL	BQL	BQL	**7.60**	BQL	BQL	BQL	**2.20**	BQL	BQL
USTTT2477-MW11	4/12/2006	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
USTTT2477-MW11	11/28/2007	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
USTTT2477-MW13	11/29/2007	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
USTTT2477-MW14	4/11/2006	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
USTTT2477-MW14	11/29/2007	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
USTTT2477-MWOB01	8/15/2005	BQL	**44.90**	**3.90**	BQL	BQL	BQL	BQL	BQL	**87.90**	BQL	BQL	BQL
USTTT2477-MWOB01	4/12/2006	BQL	BQL	BQL	BQL	BQL	**7.10**	BQL	BQL	**68.40**	BQL	BQL	BQL
USTTT2477-MWOB01	11/28/2007	BQL	BQL	BQL	BQL	BQL	**33.90**	BQL	BQL	**179.00**	BQL	BQL	BQL

Notes:
1. 2L GWQS = North Carolina groundwater quality standard 15A NCAC 2L .0202
2. GCL = Gross Contamination Levels for ground water as defined in "Guidelines for Assessment and Corrective Action" North Carolina Underground Storage Tank Section, effective July 1, 2001
3. All units are in ug/L (Micrograms per Liter)
4. BQL = Below Quantitaion Limits
5. A zero in the 2L GWQS row indicates the 2L Standard is equal to the laboratory detection limit
6. A zero in the GCL row indicates a GCL has not been established
7. Shaded concentrations indicate exceedance of the 2L GWQS
8. Only compounds which were detected are shown on table. All other compounds were BQL

TABLE 42.3

SITE TT-2477-78

GROUNDWATER LABORATORY ANALYTICAL RESULTS - JULY 2005 TO DECEMBER 2007

EPA METHOD 625

Contaminant of Concern →		2,4-Dimethylphenol	2-Methylnaphthalene	Methylphenol-4&3	Acenaphthene	bis(2-Chloroethoxy)methane	Bis(2-ethylhexyl)phthalate	Diethylphthalate	Fluorene	Naphthalene	Nitrobenzene	Phenanthrene	Phenol
Well ID	Date												
2L GWQS		140	14	3.5	80	0	2.5	5000	280	21	0	210	300
GCL		140000	12500	0	2120	0	2500	0	950	15500	0	410	335000
USTTT2477-MWOB10	8/15/2005	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
USTTT2477-MWOB10	4/11/2006	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	7.30	BQL	BQL	BQL
USTTT2477-MWOB10	11/28/2007	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	**22.70**	BQL	BQL	BQL
USTTT2477-MWPVC101	8/18/2005	4.10	**113.00**	BQL	BQL	**1.50**	BQL	BQL	BQL	**405.00**	BQL	BQL	4.50
USTTT2477-MWPVC101	4/11/2006	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	**311.00**	BQL	BQL	11.10
USTTT2478-MW03	8/11/2005	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
USTTT2478-MW06	8/11/2005	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
USTTT2478-MW06	11/28/2007	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
USTTT2478-MW09	8/12/2005	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
USTTT2478-MW09	11/28/2007	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL

Notes:
1. 2L GWQS = North Carolina groundwater quality standard 15A NCAC 2L .0202
2. GCL = Gross Contamination Levels for ground water as defined in "Guidelines for Assessment and Corrective Action" North Carolina Underground Storage Tank Section, effective July 1, 2001
3. All units are in ug/L (Micrograms per Liter)
4. BQL = Below Quantitaion Limits
5. A zero in the 2L GWQS row indicates the 2L Standard is equal to the laboratory detection limit
6. A zero in the GCL row indicates a GCL has not been established
7. Shaded concentrations indicate exceedance of the 2L GWQS
8. Only compounds which were detected are shown on table. All other compounds were BQL

TABLE 42.3

SITE TT-2477-78

GROUNDWATER LABORATORY ANALYTICAL RESULTS - JULY 2005 TO DECEMBER 2007

EPA METHOD 625

Contaminant of Concern →		2,4-Dimethylphenol	2-Methylnaphthalene	Methylphenol-4&3	Acenaphthene	bis(2-Chloroethoxy)methane	Bis(2-ethylhexyl)phthalate	Diethylphthalate	Fluorene	Naphthalene	Nitrobenzene	Phenanthrene	Phenol
Well ID	Date												
2L GWQS		140	14	3.5	80	0	2.5	5000	280	21	0	210	300
GCL		140000	12500	0	2120	0	2500	0	950	15500	0	410	335000
USTTT2478-MW10	8/11/2005	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
USTTT2478-MW10	11/28/2007	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
USTTT2478-MW13	8/12/2005	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
USTTT2478-MW13	11/29/2007	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
USTTT2478-MW14	8/11/2005	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
USTTT2478-MW14	11/28/2007	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
USTTT2478-MW14D	8/11/2005	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
USTTT2478-MW14D	11/28/2007	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
USTTT2478-MW15	8/11/2005	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
USTTT2478-MW15	11/28/2007	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
USTTT2478-MW16	8/12/2005	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL

Notes:
1. 2L GWQS = North Carolina groundwater quality standard 15A NCAC 2L .0202
2. GCL = Gross Contamination Levels for ground water as defined in "Guidelines for Assessment and Corrective Action" North Carolina Underground Storage Tank Section, effective July 1, 2001
3. All units are in ug/L (Micrograms per Liter)
4. BQL = Below Quantitaion Limits
5. A zero in the 2L GWQS row indicates the 2L Standard is equal to the laboratory detection limit
6. A zero in the GCL row indicates a GCL has not been established
7. Shaded concentrations indicate exceedance of the 2L GWQS
8. Only compounds which were detected are shown on table. All other compounds were BQL

TABLE 42.3

SITE TT-2477-78

GROUNDWATER LABORATORY ANALYTICAL RESULTS - JULY 2005 TO DECEMBER 2007

EPA METHOD 625

Contaminant of Concern →		2,4-Dimethylphenol	2-Methylnaphthalene	Methylphenol-4&3	Acenaphthene	bis(2-Chloroethoxy)methane	Bis(2-ethylhexyl)phthalate	Diethylphthalate	Fluorene	Naphthalene	Nitrobenzene	Phenanthrene	Phenol
Well ID	**Date**												
2L GWQS		140	14	3.5	80	0	2.5	5000	280	21	0	210	300
GCL		140000	12500	0	2120	0	2500	0	950	15500	0	410	335000
USTTT2478-MW17	8/12/2005	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
USTTT2478-MW17	4/11/2006	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
USTTT2478-MW17	11/29/2007	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
USTTT2478-MW17D	8/12/2005	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
USTTT2478-MW18	8/12/2005	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
USTTT2478-MW18	4/11/2006	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
USTTT2478-MW18	11/29/2007	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
USTTT2478-MW19	8/12/2005	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
USTTT2478-MW19	11/29/2007	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
USTTT2478-MW20	4/11/2006	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	10.90	BQL	BQL	BQL

Notes:
1. 2L GWQS = North Carolina groundwater quality standard 15A NCAC 2L .0202
2. GCL = Gross Contamination Levels for ground water as defined in "Guidelines for Assessment and Corrective Action" North Carolina Underground Storage Tank Section, effective July 1, 2001
3. All units are in ug/L (Micrograms per Liter)
4. BQL = Below Quantitaion Limits
5. A zero in the 2L GWQS row indicates the 2L Standard is equal to the laboratory detection limit
6. A zero in the GCL row indicates a GCL has not been established
7. Shaded concentrations indicate exceedance of the 2L GWQS
8. Only compounds which were detected are shown on table. All other compounds were BQL

TABLE 42.3

SITE TT-2477-78

GROUNDWATER LABORATORY ANALYTICAL RESULTS - JULY 2005 TO DECEMBER 2007

EPA METHOD 625

Contaminant of Concern →		2,4-Dimethylphenol	2-Methylnaphthalene	Methylphenol-4&3	Acenaphthene	bis(2-Chloroethoxy)methane	Bis(2-ethylhexyl)phthalate	Diethylphthalate	Fluorene	Naphthalene	Nitrobenzene	Phenanthrene	Phenol
Well ID	**Date**												
2L GWQS		140	14	3.5	80	0	2.5	5000	280	21	0	210	300
GCL		140000	12500	0	2120	0	2500	0	950	15500	0	410	335000
USTTT2478-MW23	4/11/2006	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
USTTT2478-MW23	11/29/2007	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
USTTT2478-MW24	4/11/2006	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
USTTT2478-MW24	11/29/2007	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
USTTT2478-MW25	8/12/2005	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
USTTT2478-MWPVC101	11/29/2007	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	378.00	BQL	BQL	BQL
USTTT2478-MWSS100	8/15/2005	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
USTTT2478-MWSS100	3/11/2006	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
USTTT2478-MWSS100	11/29/2007	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL

Notes:
1. 2L GWQS = North Carolina groundwater quality standard 15A NCAC 2L .0202
2. GCL = Gross Contamination Levels for ground water as defined in "Guidelines for Assessment and Corrective Action" North Carolina Underground Storage Tank Section, effective July 1, 2001
3. All units are in ug/L (Micrograms per Liter)
4. BQL = Below Quantitaion Limits
5. A zero in the 2L GWQS row indicates the 2L Standard is equal to the laboratory detection limit
6. A zero in the GCL row indicates a GCL has not been established
7. Shaded concentrations indicate exceedance of the 2L GWQS
8. Only compounds which were detected are shown on table. All other compounds were BQL

TABLE 42.4

SITE TT-2477-78

GROUNDWATER LABORATORY ANALYTICAL RESULTS - JULY 2005 TO DECEMBER 2007

MADEP VPH/EPH

Contaminant of Concern →				
Well ID	**Date**	C5-C8 Aliphatics	C9-C18 Aliphatics	C9-C22 Aromatics
2L GWQS		420	4200	210
GCL		0	0	0
USTTT2477-MW01	4/12/2006	BQL	BQL	130.00
USTTT2477-MW01	11/28/2007	BQL	BQL	129.00
USTTT2477-MW02	4/12/2006	BQL	100.00	190.00
USTTT2477-MW02	11/28/2007	BQL	136.00	**414.00**
USTTT2477-MW05	11/29/2007	BQL	BQL	BQL
USTTT2477-MW06	4/12/2006	BQL	BQL	BQL
USTTT2477-MW06	11/29/2007	BQL	BQL	BQL
USTTT2477-MW07	11/29/2007	BQL	BQL	BQL
USTTT2477-MW09	11/29/2007	BQL	BQL	BQL
USTTT2477-MW10	11/28/2007	BQL	BQL	BQL

Notes:
1. 2L GWQS = North Carolina groundwater quality standard 15A NCAC 2L .0202
2. GCL = Gross Contamination Levels for ground water as defined in "Guidelines for Assessment and Corrective Action" North Carolina Underground Storage Tank Section, effective July 1, 2001
3. All units are in ug/L (Micrograms per Liter)
4. BQL = Below Quantitaion Limits
5. A zero in the 2L GWQS row indicates the 2L Standard is equal to the laboratory detection limit
6. A zero in the GCL row indicates a GCL has not been established
7. Shaded concentrations indicate exceedance of the 2L GWQS
8. Only compounds which were detected are shown on table. All other compounds were BQL

TABLE 42.4

SITE TT-2477-78

GROUNDWATER LABORATORY ANALYTICAL RESULTS - JULY 2005 TO DECEMBER 2007

MADEP VPH/EPH

Contaminant of Concern →		C5-C8 Aliphatics	C9-C18 Aliphatics	C9-C22 Aromatics
Well ID	Date			
2L GWQS		420	4200	210
GCL		0	0	0
USTTT2477-MW11	4/12/2006	BQL	BQL	BQL
USTTT2477-MW11	11/28/2007	BQL	BQL	BQL
USTTT2477-MW13	11/29/2007	125.00	112.00	BQL
USTTT2477-MW14	4/11/2006	BQL	BQL	BQL
USTTT2477-MW14	11/29/2007	BQL	BQL	BQL
USTTT2477-MWOB01	4/12/2006	**1100.00**	940.00	**260.00**
USTTT2477-MWOB01	11/28/2007	**2730.00**	**7380.00**	**3183.00**
USTTT2477-MWOB10	4/11/2006	220.00	180.00	BQL
USTTT2477-MWOB10	11/28/2007	314.00	511.00	189.00
USTTT2477-MWPVC101	4/11/2006	**4200.00**	**6000.00**	**2550.00**
USTTT2478-MW06	11/28/2007	BQL	BQL	BQL

Notes:
1. 2L GWQS = North Carolina groundwater quality standard 15A NCAC 2L .0202
2. GCL = Gross Contamination Levels for ground water as defined in "Guidelines for Assessment and Corrective Action" North Carolina Underground Storage Tank Section, effective July 1, 2001
3. All units are in ug/L (Micrograms per Liter)
4. BQL = Below Quantitaion Limits
5. A zero in the 2L GWQS row indicates the 2L Standard is equal to the laboratory detection limit
6. A zero in the GCL row indicates a GCL has not been established
7. Shaded concentrations indicate exceedance of the 2L GWQS
8. Only compounds which were detected are shown on table. All other compounds were BQL

TABLE 42.4

SITE TT-2477-78

GROUNDWATER LABORATORY ANALYTICAL RESULTS - JULY 2005 TO DECEMBER 2007

MADEP VPH/EPH

Contaminant of Concern →		C5-C8 Aliphatics	C9-C18 Aliphatics	C9-C22 Aromatics
Well ID	Date			
2L GWQS		420	4200	210
GCL		0	0	0
USTTT2478-MW09	11/28/2007	BQL	BQL	BQL
USTTT2478-MW10	11/28/2007	BQL	BQL	BQL
USTTT2478-MW13	11/29/2007	BQL	BQL	BQL
USTTT2478-MW14	11/28/2007	BQL	BQL	BQL
USTTT2478-MW14D	11/28/2007	BQL	BQL	BQL
USTTT2478-MW15	11/28/2007	BQL	BQL	BQL
USTTT2478-MW17	4/11/2006	BQL	BQL	BQL
USTTT2478-MW17	11/29/2007	BQL	BQL	BQL
USTTT2478-MW18	4/11/2006	120.00	BQL	BQL
USTTT2478-MW18	11/29/2007	142.00	BQL	BQL

Notes:
1. 2L GWQS = North Carolina groundwater quality standard 15A NCAC 2L .0202
2. GCL = Gross Contamination Levels for ground water as defined in "Guidelines for Assessment and Corrective Action" North Carolina Underground Storage Tank Section, effective July 1, 2001
3. All units are in ug/L (Micrograms per Liter)
4. BQL = Below Quantitaion Limits
5. A zero in the 2L GWQS row indicates the 2L Standard is equal to the laboratory detection limit
6. A zero in the GCL row indicates a GCL has not been established
7. Shaded concentrations indicate exceedance of the 2L GWQS
8. Only compounds which were detected are shown on table. All other compounds were BQL

TABLE 42.4

SITE TT-2477-78

GROUNDWATER LABORATORY ANALYTICAL RESULTS - JULY 2005 TO DECEMBER 2007

MADEP VPH/EPH

Contaminant of Concern →		C5-C8 Aliphatics	C9-C18 Aliphatics	C9-C22 Aromatics
Well ID	Date			
2L GWQS		420	4200	210
GCL		0	0	0
USTTT2478-MW19	11/29/2007	369.00	204.00	103.00
USTTT2478-MW20	4/11/2006	**650.00**	640.00	**340.00**
USTTT2478-MW23	4/11/2006	BQL	BQL	BQL
USTTT2478-MW23	11/29/2007	BQL	BQL	BQL
USTTT2478-MW24	4/11/2006	BQL	BQL	BQL
USTTT2478-MW24	11/29/2007	BQL	BQL	BQL
USTTT2478-MWPVC101	11/29/2007	**1120.00**	**4650.00**	**1664.00**
USTTT2478-MWSS100	3/11/2006	BQL	BQL	BQL
USTTT2478-MWSS100	11/29/2007	BQL	BQL	BQL

Notes:
1. 2L GWQS = North Carolina groundwater quality standard 15A NCAC 2L .0202
2. GCL = Gross Contamination Levels for ground water as defined in "Guidelines for Assessment and Corrective Action" North Carolina Underground Storage Tank Section, effective July 1, 2001
3. All units are in ug/L (Micrograms per Liter)
4. BQL = Below Quantitaion Limits
5. A zero in the 2L GWQS row indicates the 2L Standard is equal to the laboratory detection limit
6. A zero in the GCL row indicates a GCL has not been established
7. Shaded concentrations indicate exceedance of the 2L GWQS
8. Only compounds which were detected are shown on table. All other compounds were BQL

MCB CAMP LEJEUNE
UST MANAGEMENT PROGRAM
CALENDAR YEAR 2007

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Naval Facilities Engineering Command

LEGEND

Monitoring Wells
- Type I
- Type II
- Type III
- Pumping Well
- Unknown Well Type
- Water Supply Wells
- Above Ground Storage Tank
- Underground Storage Tank
- Railroad Tracks

Walls and Fences
- FENCE
- GATE
- WALL

Free Product
- Free Product Detected
- No Measurable Thickness
- Free Product Plume
- Buildings and Structures
- Demolished Structures
- Oil/Water Separators
- Slabs
- Roads
- Driveways
- Parking Lots
- Surface Water Bodies
- Creeks and Streams
- Historical Groundwater Flow Direction

Vegetation Cover
- Forestland
- Scrubland
- Wetland

Airfield Pavement
- HELIPAD
- RAMP
- RUNWAY
- SHLDR_OVERRUN
- TAXIWAY

NOTES

1. Free product was not detected at this site in any of the wells gauged during this monitoring event.

CATLIN
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SITE TT-2477-78
FREE PRODUCT PLUME MAP
FOURTH QUARTER 2007

FIGURE
42.1

Job No.:	Date:	Scale:	Drawn By:	Checked By:
207-002	JAN 2008	AS SHOWN	SAC	MEM

100 50 0 100 Feet
SCALE

MCB CAMP LEJEUNE
UST MANAGEMENT PROGRAM
CALENDAR YEAR 2007

NAVFAC
Naval Facilities Engineering Command

LEGEND

Monitoring Wells
- Type I
- Type II
- Type III
- Pumping Well
- Unknown Well Type
- Water Supply Wells
- Above Ground Storage Tank
- Underground Storage Tank
- Railroad Tracks

Walls and Fences
- FENCE
- GATE
- WALL

Analytical Results
- Free Product Detected
- 2L Non-Compliant
- 2L Compliant
- EPA 602 Plume
- Buildings and Structures
- Demolished Structures
- Oil/Water Separators
- Slabs
- Roads
- Driveways
- Parking Lots
- Surface Water Bodies
- Creeks and Streams
- Historical Groundwater Flow Direction

Vegetation Cover
- Forestland
- Scrubland
- Wetland

Airfield Pavement
- HELIPAD
- RAMP
- RUNWAY
- SHLDR_OVERRUN
- TAXIWAY

NOTES

1. 2L Standard refers to North Carolina Groundwater Quality Standard 15A NCAC 2L.0202.
2. GCL refers to Gross Contaminant Level as defined in "Guidelines for the Assessment and Corrective Action" North Carolina Underground Storage Tank Section, effective July 1, 2001.
3. A 2L Standard of "0.00" implies a standard has not yet been established. According to NCAC T15:02L, any compound found above laboratory detection limits is considered noncompliant unless otherwise specified by the NCDENR.

Well ID	Well Type	Date	Method	Parameter	Result	Units	2L GWQS	GCL
USTTT2477-MWOB01	Unknown	11/28/2007	602	Ethylbenzene	560.0000	UG/L	550.0000	550000.0000
USTTT2477-MWOB01	Unknown	11/28/2007	602	Total Xylenes	1778.0000	UG/L	530.0000	87500.0000
USTTT2477-MWOB10	Unknown	11/28/2007	602	Benzene	122.0000	UG/L	1.0000	5000.0000
USTTT2478-MWPVC101	T-II	11/29/2007	602	Ethylbenzene	1770.0000	UG/L	550.0000	550000.0000
USTTT2478-MWPVC101	T-II	11/29/2007	602	Benzene	552.0000	UG/L	1.0000	5000.0000

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SITE TT-2477-78
EPA METHOD 602 COLORIMETRY AND PLUME IN EXCESS OF 2L FOURTH QUARTER 2007

FIGURE **42.2**

Job No.:	Date:	Scale:	Drawn By:	Checked By:
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MCB CAMP LEJEUNE
UST MANAGEMENT PROGRAM
CALENDAR YEAR 2007

NAVFAC
Naval Facilities Engineering Command

LEGEND

Monitoring Wells
- Type I
- Type II
- Type III
- Pumping Well
- Unknown Well Type
- Water Supply Wells
- Above Ground Storage Tank
- Underground Storage Tank
- Railroad Tracks

Walls and Fences
- FENCE
- GATE
- WALL

Analytical Results
- Free Product Detected
- 2L Non-Compliant
- 2L Compliant
- EPA 625 Plume
- Buildings and Structures
- Demolished Structures
- Oil/Water Separators
- Slabs
- Roads
- Driveways
- Parking Lots
- Surface Water Bodies
- Creeks and Streams
- Historical Groundwater Flow Direction

Vegetation Cover
- Forestland
- Scrubland
- Wetland

Airfield Pavement
- HELIPAD
- RAMP
- RUNWAY
- SHLDR_OVERRUN
- TAXIWAY

NOTES

1. 2L Standard refers to North Carolina Groundwater Quality Standard 15A NCAC 2L.0202.
2. GCL refers to Gross Contaminant Level as defined in "Guidelines for the Assessment and Corrective Action" North Carolina Underground Storage Tank Section, effective July 1, 2001.
3. A 2L Standard of "0.00" implies a standard has not yet been established. According to NCAC T15:02L, any compound found above laboratory detection limits is considered noncompliant unless otherwise specified by the NCDENR.

Well ID	Well Type	Date	Method	Parameter	Result	Units	2L GWQS	GCL
USTTT2477-MW01	T-II	11/28/2007	625	Bis(2-ethylhexyl)phthalate	3.1000	UG/L	2.5000	2500.0000
USTTT2477-MW02	T-II	11/28/2007	625	Bis(2-ethylhexyl)phthalate	46.0000	UG/L	2.5000	2500.0000
USTTT2477-MWOB01	Uknown	11/28/2007	625	Bis(2-ethylhexyl)phthalate	33.9000	UG/L	2.5000	2500.0000
USTTT2477-MWOB01	Uknown	11/28/2007	625	Naphthalene	179.0000	UG/L	21.0000	15500.0000
USTTT2477-MWOB10	Uknown	11/28/2007	625	Naphthalene	22.7000	UG/L	21.0000	15500.0000
USTTT2478-MWPVC101	T-II	11/29/2007	625	Naphthalene	378.0000	UG/L	21.0000	15500.0000

100 50 0 100 Feet
SCALE

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SITE TT-2477-78
EPA METHOD 625 COLORIMETRY AND PLUME IN EXCESS OF 2L
FOURTH QUARTER 2007

FIGURE **42.3**

Job No.:	Date:	Scale:	Drawn By:	Checked By:
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MCB CAMP LEJEUNE
UST MANAGEMENT PROGRAM
CALENDAR YEAR 2007

NAVFAC
Naval Facilities Engineering Command

LEGEND

Monitoring Wells
- Type I
- Type II
- Type III
- Pumping Well
- Unknown Well Type
- Water Supply Wells
- Above Ground Storage Tank
- Underground Storage Tank
- Railroad Tracks

Walls and Fences
- FENCE
- GATE
- WALL

Analytical Results
- Free Product Detected
- 2L Non-Compliant
- 2L Compliant
- MADEP Plume
- Buildings and Structures
- Demolished Structures
- Oil/Water Separators
- Slabs
- Roads
- Driveways
- Parking Lots
- Surface Water Bodies
- Creeks and Streams
- Historical Groundwater Flow Direction

Vegetation Cover
- Forestland
- Scrubland
- Wetland

Airfield Pavement
- HELIPAD
- RAMP
- RUNWAY
- SHLDR_OVERRUN
- TAXIWAY

NOTES

1. 2L Standard refers to North Carolina Groundwater Quality Standard 15A NCAC 2L.0202.
2. GCL refers to Gross Contaminant Level as defined in "Guidelines for the Assessment and Corrective Action" North Carolina Underground Storage Tank Section, effective July 1, 2001.
3. A 2L Standard of "0.00" implies a standard has not yet been established. According to NCAC T15:02L, any compound found above laboratory detection limits is considered noncompliant unless otherwise specified by the NCDENR.

Well ID	Well Type	Date	Method	Parameter	Result	Units	2L GWQS	GCL
USTTT2477-MW02	T-II	11/28/2007	MADEP VPH/EPH	C9-C22 Aromatics	414.0000	UG/L	210.0000	0.0000
USTTT2477-MWOB01	Unknown	11/28/2007	MADEP VPH/EPH	C5-C8 Aliphatics	2730.0000	UG/L	420.0000	0.0000
USTTT2477-MWOB01	Unknown	11/28/2007	MADEP VPH/EPH	C9-C18 Aliphatics	7380.0000	UG/L	4200.0000	0.0000
USTTT2477-MWOB01	Unknown	11/28/2007	MADEP VPH/EPH	C9-C22 Aromatics	3183.0000	UG/L	210.0000	0.0000
USTTT2478-MWPVC101	T-II	11/29/2007	MADEP VPH/EPH	C5-C8 Aliphatics	1120.0000	UG/L	420.0000	0.0000
USTTT2478-MWPVC101	T-II	11/29/2007	MADEP VPH/EPH	C9-C18 Aliphatics	4650.0000	UG/L	4200.0000	0.0000
USTTT2478-MWPVC101	T-II	11/29/2007	MADEP VPH/EPH	C9-C22 Aromatics	1664.0000	UG/L	210.0000	0.0000

100 50 0 100 Feet
SCALE

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SITE TT-2477-78
MADEP VPH/EPH COLORIMETRY AND PLUME IN EXCESS OF 2L
FOURTH QUARTER 2007

FIGURE **42.4**

Job No.:	Date:	Scale:	Drawn By:	Checked By:
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SECTION 43.0

OF THE

ANNUAL MANAGEMENT REPORT
MCB CAMP LEJEUNE UST MANAGEMENT PROGRAM

MONITORING EVENT:

YEAR 2007
(JANUARY – DECEMBER 2007)

SITE-SPECIFIC MONITORING REPORT
FOR

SITE TT-3165

NCDENR INCIDENT NO. 23971

43.0 EXECUTIVE SUMMARY
SITE TT-3165

43.1 Site Information

43.1.1 Site Location: MCB Camp Lejeune, Tarawa Terrace
43.1.2 Incident Number(s): 23971
43.1.3 UTM Coordinates (WGS84) (Meters): 281917.81 Easting, 3846874.76 Northing
43.1.4 Risk Classification: Low
43.1.5 Land Use Classification: Residential
43.1.6 Source Type(s): 550 gallon Heating Oil UST

43.2 Monitoring Event Information

43.2.1 Sampling Performed By: CATLIN
43.2.2 Date(s) of This Monitoring Event: July 2007
43.2.3 Date(s) of Previous Monitoring Event: Most recent groundwater sampling conducted in November 2004.
43.2.4 Reason(s) for This Monitoring Event: Determine if groundwater contaminants attenuated to concentrations below the 2L GWQSs.
43.2.5 Site Monitoring Status at Time of This Event: Site has been approved for NFA with LURs, however the subject site was re-sampled during this monitoring period to determine if contaminant levels had naturally attenuated to below the 2L GWQS.

43.3 Groundwater Hydraulics

43.3.1 Hydraulic Conductivity: Unknown
43.3.2 Effective Porosity: Unknown
43.3.3 Hydraulic Gradient: Unknown
43.3.4 Average Linear Groundwater Flow Velocity: Unknown
43.3.5 Groundwater Flow Direction: Unknown
43.3.6 Range of Measured Water Table Elevations: Not Measured. However, depth to groundwater from the temporary well installed in July 2007 was measured at approximately 10 feet BLS.
43.3.7 Significant Changes from Previously Reported Data: None

43.4 Free Product Plume

43.4.1 Free Product Present?: No
43.4.2 Free Product Thickness Measured: Not Applicable
43.4.3 Free Product Removed from Site This Period: Not Applicable
43.4.4 Significant Changes from Previously Reported Data: None

43.5 Dissolved-Phase Plume

43.5.1 Plume Concentrations: See Figure 43.1
43.5.2 Plume Size and Location: See Figure 43.1
43.5.3 Significant Changes from Previously Reported Data: The groundwater sample analytical results from November 2004 as compared to the current analytical results (July 2007) are discussed as follows:

MADEP VPH/EPH

Analytical data from the November 2004 sampling event revealed the C_9-C_{22} Aromatics Hydrocarbon Fraction at concentrations above the 2L GWQS. During the current sampling event, no MADEP fractions were detected at concentrations in excess of the 2L GWQSs. See Figure 43.1.

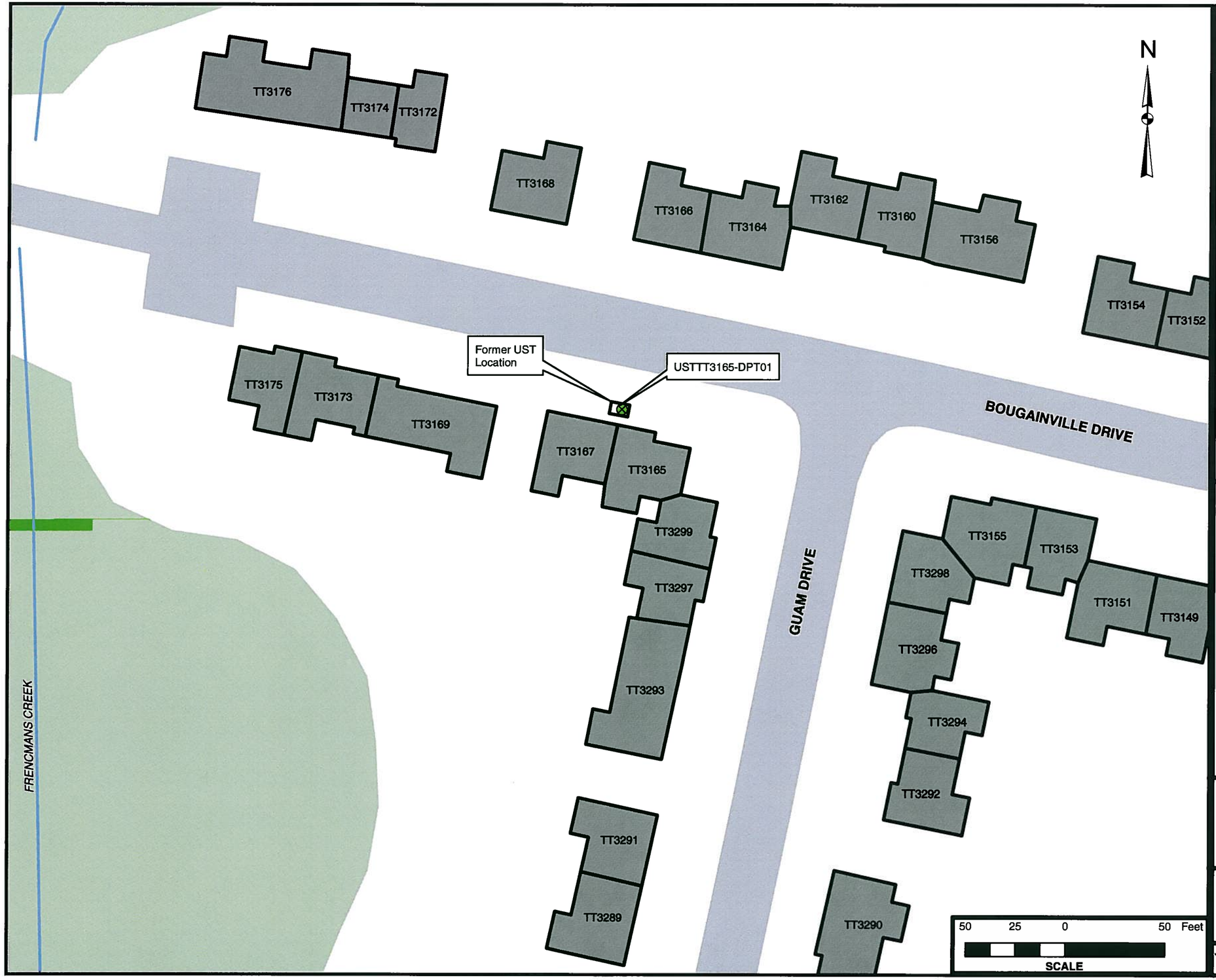
43.5.4 Contaminated Water Supply Well(s)?: None
43.5.5 Potable Water Supply Well Within 1,000 Feet of Source Area?: No
43.5.6 Any Water Supply Well Within 250 Feet of Source Area?: No
43.5.7 Surface Water Body Within 500 Feet?: Yes. Frenchman's Creek is located approximately 300 feet west of the subject site.
43.5.8 Past Evidence of Vapors?: No
43.5.9 Significant Changes from Previously Reported Data?: None

43.6 Remediation

43.6.1 Status: Complete
43.6.2 Type: Soil Excavation
43.6.3 Progress: Complete
43.6.4 Construction Contractor: J.A. Jones
43.6.5 Operating Contractor: None

43.7 Observations and Comments

The previously detected C_9-C_{22} Aromatics at the TT-3165 site have naturally attenuated to below the corresponding 2L GWQSs as of the current investigation. CATLIN recommends that no additional groundwater sampling be conducted at the subject site. Based on historical and current sampling data, the TC-912 site is eligible for NFA without LURs.



MCB CAMP LEJEUNE
UST MANAGEMENT PROGRAM
CALENDAR YEAR 2007

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Naval Facilities Engineering Command

LEGEND

- Proposed DPT Well
- Water Supply Wells
- Above Ground Storage Tank
- Underground Storage Tank
- Railroad Tracks

Walls and Fences
- FENCE
- GATE
- WALL

Analytical Results
- 2L Non-Compliant
- 2L Compliant
- MADEP Plume
- Buildings and Structures
- Demolished Structures
- Oil/Water Separators
- Slabs
- Roads
- Driveways
- Parking Lots
- Surface Water Bodies
- Creeks and Streams

Vegetation Cover
- Forestland
- Scrubland
- Wetland

Airfield Pavement
- HELIPAD
- RAMP
- RUNWAY
- SHLDR_OVERRUN
- TAXIWAY

NOTES

1. No MADEP VPH/EPH compounds were detected above the 2L GWQS for any wells sampled during this monitoring event.

CATLIN
Engineers and Scientists

SITE TT-3165
MADEP VPH/EPH COLORIMETRY AND PLUME IN EXCESS OF 2L - THIRD QUARTER 2007

FIGURE **43.1**

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207-002	JAN 2008	AS SHOWN	KAWS	MEM

SECTION 44.0

OF THE

ANNUAL MANAGEMENT REPORT
MCB CAMP LEJEUNE UST MANAGEMENT PROGRAM

MONITORING EVENT:

YEAR 2007
(JANUARY – DECEMBER 2007)

SITE-SPECIFIC MONITORING REPORT
FOR

SITE TT-3233

NCDENR INCIDENT NO. 23970

44.0 EXECUTIVE SUMMARY
SITE TT-3233

44.1 Site Information

44.1.1 Site Location: MCB Camp Lejeune, Tarawa Terrace
44.1.2 Incident Number(s): 23970
44.1.3 UTM Coordinates (WGS84) (Meters): 281888.50 Easting, 3846657.93 Northing
44.1.4 Risk Classification: Low
44.1.5 Land Use Classification: Residential
44.1.6 Source Type(s): 550 gallon Heating Oil UST

44.2 Monitoring Event Information

44.2.1 Sampling Performed By: CATLIN
44.2.2 Date(s) of This Monitoring Event: July 2007
44.2.3 Date(s) of Previous Monitoring Event: Most recent groundwater sampling conducted in November 2004.
44.2.4 Reason(s) for This Monitoring Event: Determine if groundwater contaminants attenuated to concentrations below the 2L GWQSs.
44.2.5 Site Monitoring Status at Time of This Event: Site has been approved for NFA with LURs, however the subject site was re-sampled during this monitoring period to determine if contaminant levels had naturally attenuated to below the 2L GWQS.

44.3 Groundwater Hydraulics

44.3.1 Hydraulic Conductivity: Unknown
44.3.2 Effective Porosity: Unknown
44.3.3 Hydraulic Gradient: Unknown
44.3.4 Average Linear Groundwater Flow Velocity: Unknown
44.3.5 Groundwater Flow Direction: Unknown
44.3.6 Range of Measured Water Table Elevations: Not Measured. However, depth to groundwater from the temporary well installed in July 2007 was measured at approximately 8.1 feet BLS.
44.3.7 Significant Changes from Previously Reported Data: None

44.4 Free Product Plume

44.4.1 Free Product Present?: No
44.4.2 Free Product Thickness Measured: Not Applicable
44.4.3 Free Product Removed from Site This Period: Not Applicable
44.4.4 Significant Changes from Previously Reported Data: None

44.5 Dissolved-Phase Plume

44.5.1 Plume Concentrations: See Figure 44.1
44.5.2 Plume Size and Location: See Figure 44.1
44.5.3 Significant Changes from Previously Reported Data: The groundwater sample analytical results from November 2004 as compared to the current analytical results (July 2007) are discussed as follows:

EPA Method 602

During the November 2004 sampling event, Benzene was the only EPA Method 602 compound analyzed for and it was detected at a concentration of 9.1 ug/L which was above the 2L GWQS of 1 ug/L for this compound. During the current sampling event no EPA Method 602 compounds were detected at concentrations in excess of the 2L GWQSs. See Figure 44.1.

44.6 Potential Receptors

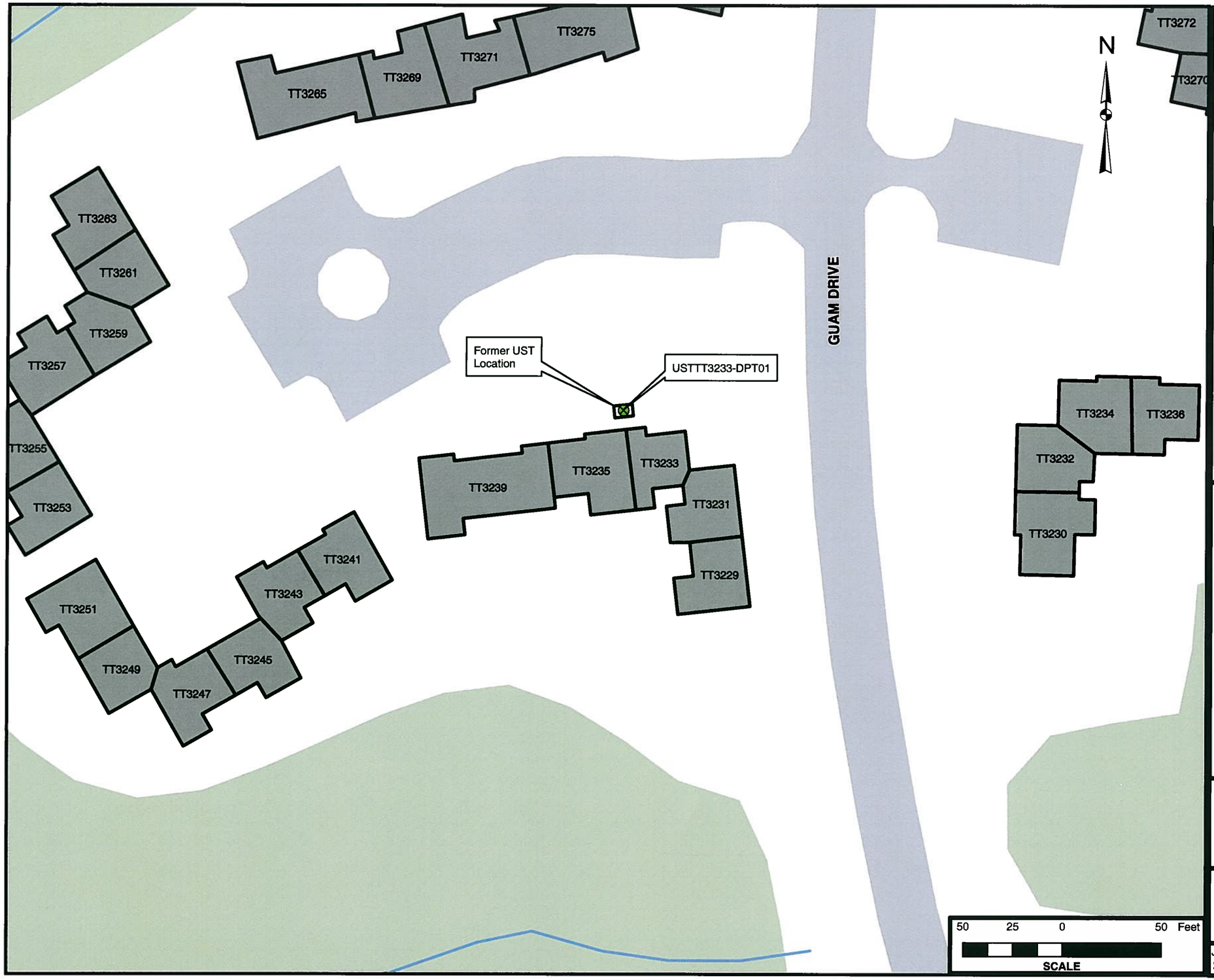
44.6.1 Contaminated Water Supply Well(s)?: None
44.6.2 Potable Water Supply Well Within 1,000 Feet of Source Area?: No
44.6.3 Any Water Supply Well Within 250 Feet of Source Area?: No
44.6.4 Surface Water Body Within 500 Feet?: Yes. An unnamed tributary of Frenchman's Creek is located approximately 250 feet south of the subject site.
44.6.5 Past Evidence of Vapors?: No
44.6.6 Significant Changes from Previously Reported Data?: None

44.7 Remediation

44.7.1 Status: Complete
44.7.2 Type: Soil Excavation
44.7.3 Progress: Complete
44.7.4 Construction Contractor: J.A. Jones
44.7.5 Operating Contractor: None

44.8 Observations and Comments

Groundwater sampling results of this investigation indicate that previously detected groundwater contaminant concentrations (Benzene) have naturally attenuated to below 2L GWQSs. CATLIN recommends that no additional groundwater sampling be conducted at the subject site. Based on historical and current sampling data, the TT-3233 site is eligible for NFA without LURs. If granted, public notice will be required since site soils exhibit compounds having concentrations above the lowest MSCCs.



MCB CAMP LEJEUNE
UST MANAGEMENT PROGRAM
CALENDAR YEAR 2007

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Naval Facilities Engineering Command

LEGEND

- Proposed DPT Well
- Water Supply Wells
- Above Ground Storage Tank
- Underground Storage Tank
- Railroad Tracks

Walls and Fences
- FENCE
- GATE
- WALL

Analytical Results
- 2L Non-Compliant
- 2L Compliant
- EPA 602 Plume
- Buildings and Structures
- Demolished Structures
- Oil/Water Separators
- Slabs
- Roads
- Driveways
- Parking Lots
- Surface Water Bodies
- Creeks and Streams

Vegetation Cover
- Forestland
- Scrubland
- Wetland

Airfield Pavement
- HELIPAD
- RAMP
- RUNWAY
- SHLDR_OVERRUN
- TAXIWAY

NOTES

1. No EPA 602 compounds were detected above the 2L GWQS for any wells sampled during this monitoring event.

CATLIN
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SITE TT-3233
EPA METHOD 602 COLORIMETRY AND PLUME IN EXCESS OF 2L - THIRD QUARTER 2007

FIGURE
44.1

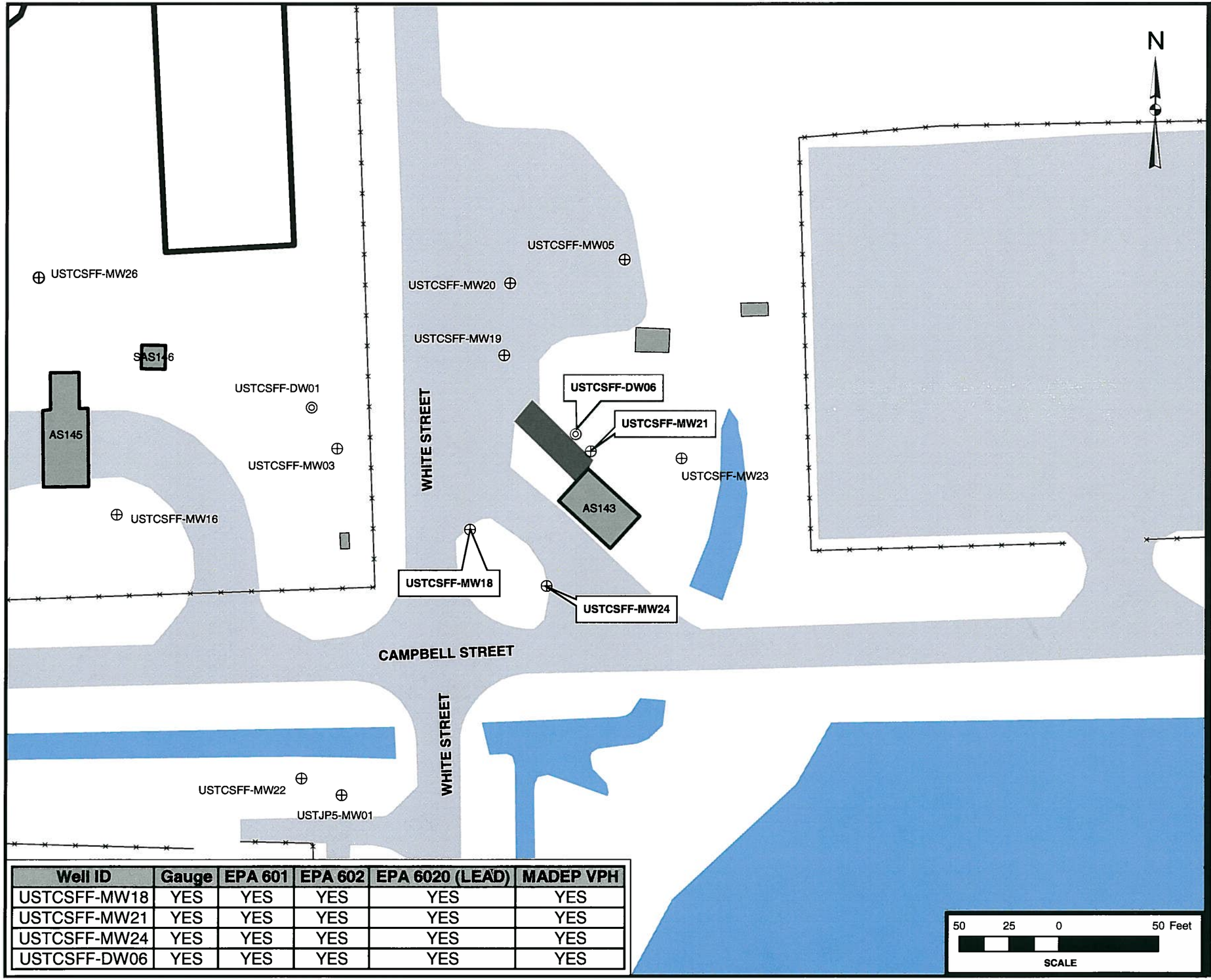
Job No.:	Date:	Scale:	Drawn By:	Checked By:
207-002	JAN 2008	AS SHOWN	KAWS	MEM

APPENDIX A

FIGURES WITH PROPOSED MONITORING SCHEDULE FOR 2008

MCB CAMP LEJEUNE
UST MANAGEMENT PROGRAM
CALENDAR YEAR 2007

NAVFAC
Naval Facilities Engineering Command



LEGEND

Monitoring Wells
- Type I
- Type II
- Type III
- Pumping Well
- Unknown Well Type
- Water Supply Wells
- Above Ground Storage Tank
- Underground Storage Tank
- Railroad Tracks

Walls and Fences
- FENCE
- GATE
- WALL

- Buildings and Structures
- Demolished Structures
- Oil/Water Separators
- Slabs
- Roads
- Driveways
- Parking Lots
- Surface Water Bodies
- Creeks and Streams
- Groundwater Flow Direction

Vegetation Cover
- Forestland
- Scrubland
- Wetland

Airfield Pavement
- HELIPAD
- RAMP
- RUNWAY
- SHLDR_OVERRUN
- TAXIWAY

NOTES

1. Site was last sampled in February 2003 by CATLIN. Therefore, the site should be sampled in July 2008 to determine if contaminant concentrations have attenuated to below the 2L GWQSs.

Well ID	Gauge	EPA 601	EPA 602	EPA 6020 (LEAD)	MADEP VPH
USTCSFF-MW18	YES	YES	YES	YES	YES
USTCSFF-MW21	YES	YES	YES	YES	YES
USTCSFF-MW24	YES	YES	YES	YES	YES
USTCSFF-DW06	YES	YES	YES	YES	YES

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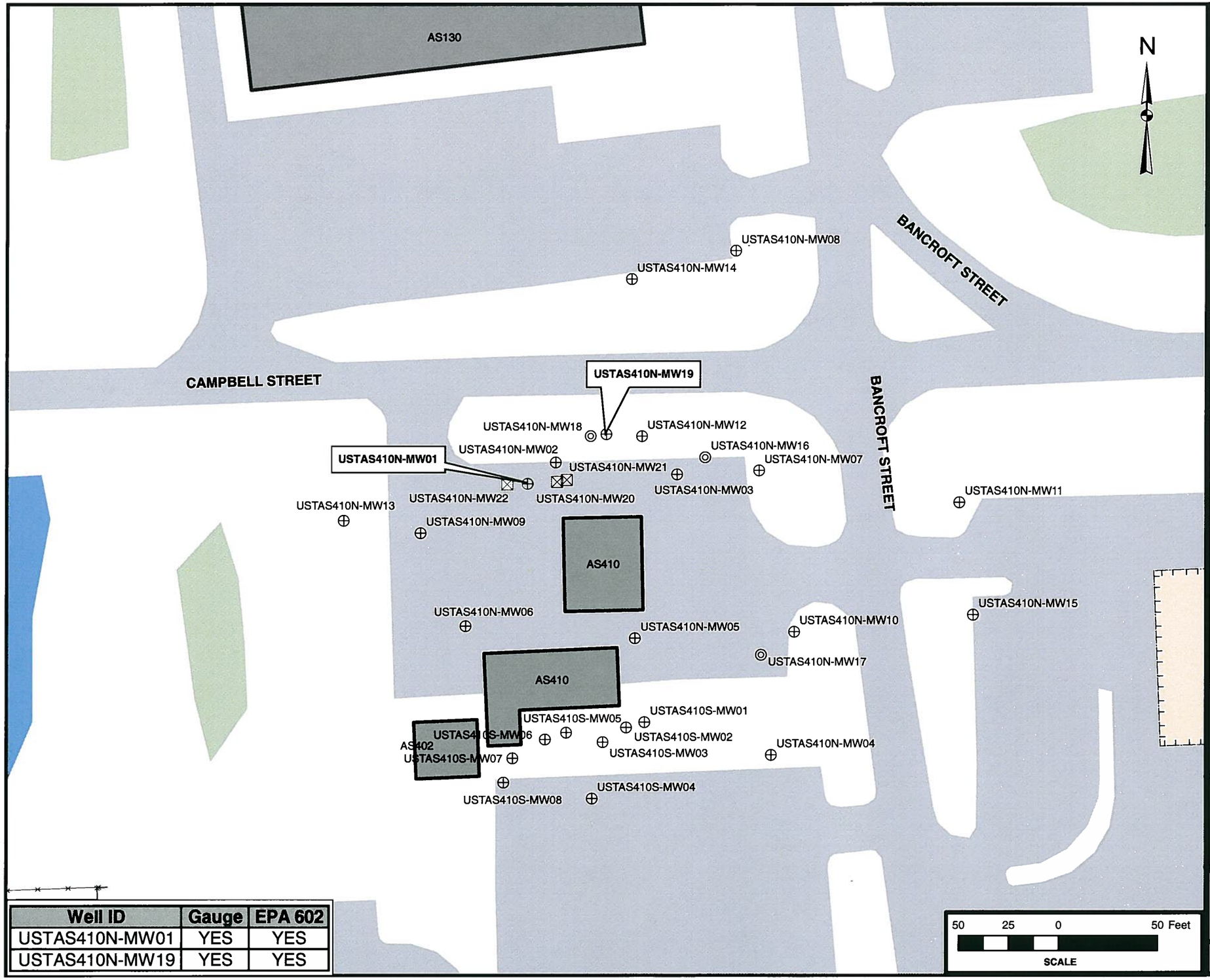
SITE AS-142-1 - YEAR 2008
PROPOSED MONITORING PLAN

FIGURE 1

Job No.:	Date:	Scale:	Drawn By:	Checked By:
207-002	JAN 2008	AS SHOWN	KAWS	MEM

MCB CAMP LEJEUNE
UST MANAGEMENT PROGRAM
CALENDAR YEAR 2007

NAVFAC
Naval Facilities Engineering Command



LEGEND

Monitoring Wells
- Type I
- Type II
- Type III
- Pumping Well
- Unknown Well Type
- Water Supply Wells
- Above Ground Storage Tank
- Underground Storage Tank
- Railroad Tracks

Walls and Fences
- FENCE
- GATE
- WALL

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- Oil/Water Separators
- Slabs
- Roads
- Driveways
- Parking Lots
- Surface Water Bodies
- Creeks and Streams
- Groundwater Flow Direction

Vegetation Cover
- Forestland
- Scrubland
- Wetland

Airfield Pavement
- HELIPAD
- RAMP
- RUNWAY
- SHLDR_OVERRUN
- TAXIWAY

NOTES

1. Groundwater at the site was last sampled in 1999. Therefore, the wells which contained noncompliant contaminant concentrations during 1999 should be resampled to determine if contaminant concentrations have attenuated to below the 2L GWQSs.

Well ID	Gauge	EPA 602
USTAS410N-MW01	YES	YES
USTAS410N-MW19	YES	YES

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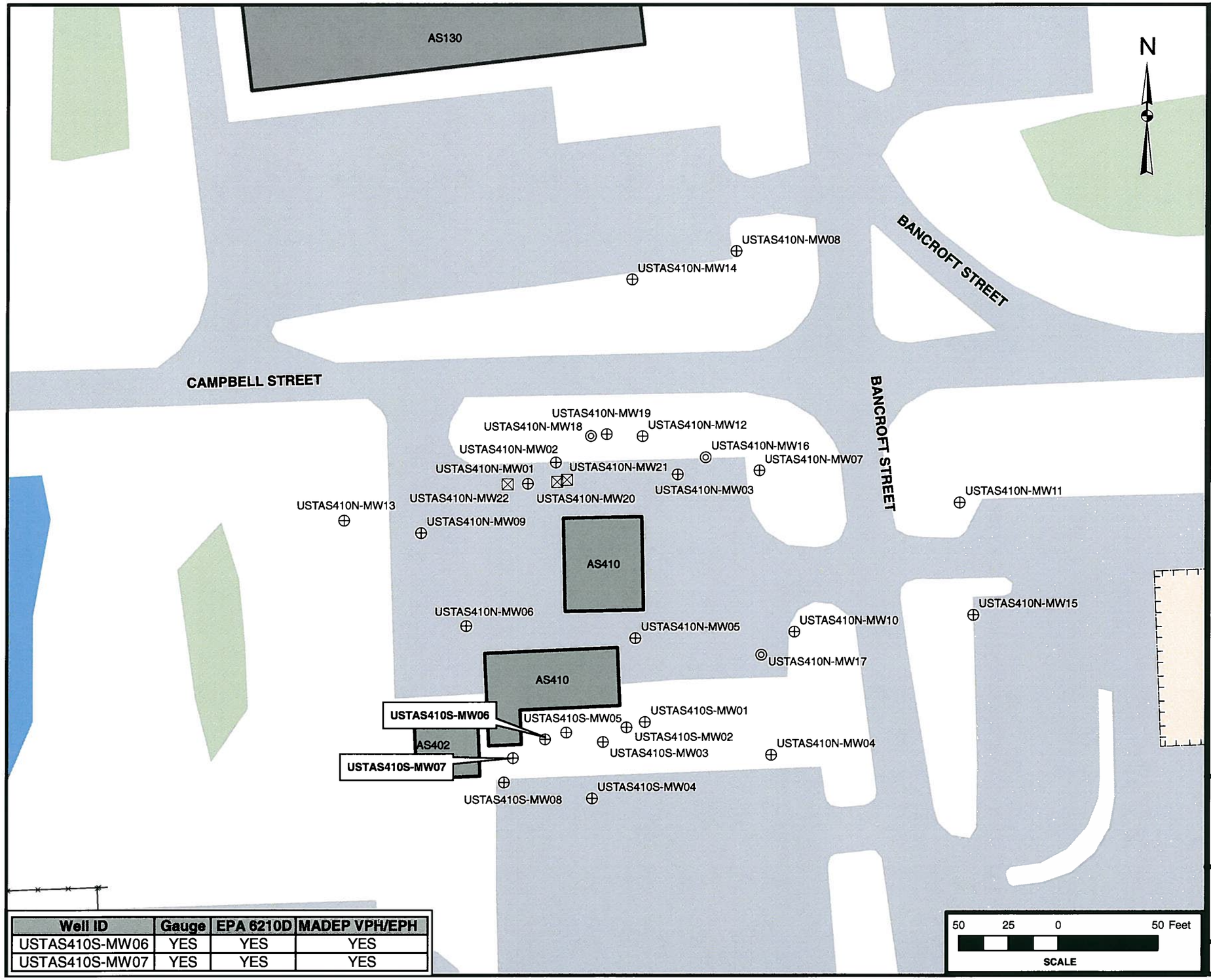
SITE AS-410N - YEAR 2008
PROPOSED MONITORING PLAN

FIGURE **2**

Job No.:	Date:	Scale:	Drawn By:	Checked By:
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MCB CAMP LEJEUNE
UST MANAGEMENT PROGRAM
CALENDAR YEAR 2007

NAVFAC
Naval Facilities Engineering Command



LEGEND

Monitoring Wells
- Type I
- Type II
- Type III
- Pumping Well
- Unknown Well Type

Water Supply Wells
Above Ground Storage Tank
Underground Storage Tank
Railroad Tracks

Walls and Fences
- FENCE
- GATE
- WALL

Buildings and Structures
Demolished Structures
Oil/Water Separators
Slabs
Roads
Driveways
Parking Lots
Surface Water Bodies
Creeks and Streams
Groundwater Flow Direction

Vegetation Cover
- Forestland
- Scrubland
- Wetland

Airfield Pavement
- HELIPAD
- RAMP
- RUNWAY
- SHLDR_OVERRUN
- TAXIWAY

NOTES

1. Groundwater at the site was last sampled in 2002. Therefore, the wells which contained noncompliant contaminant concentrations during 2002 should be resampled to determine if contaminant concentrations have attenuated to below the 2L GWQSs.

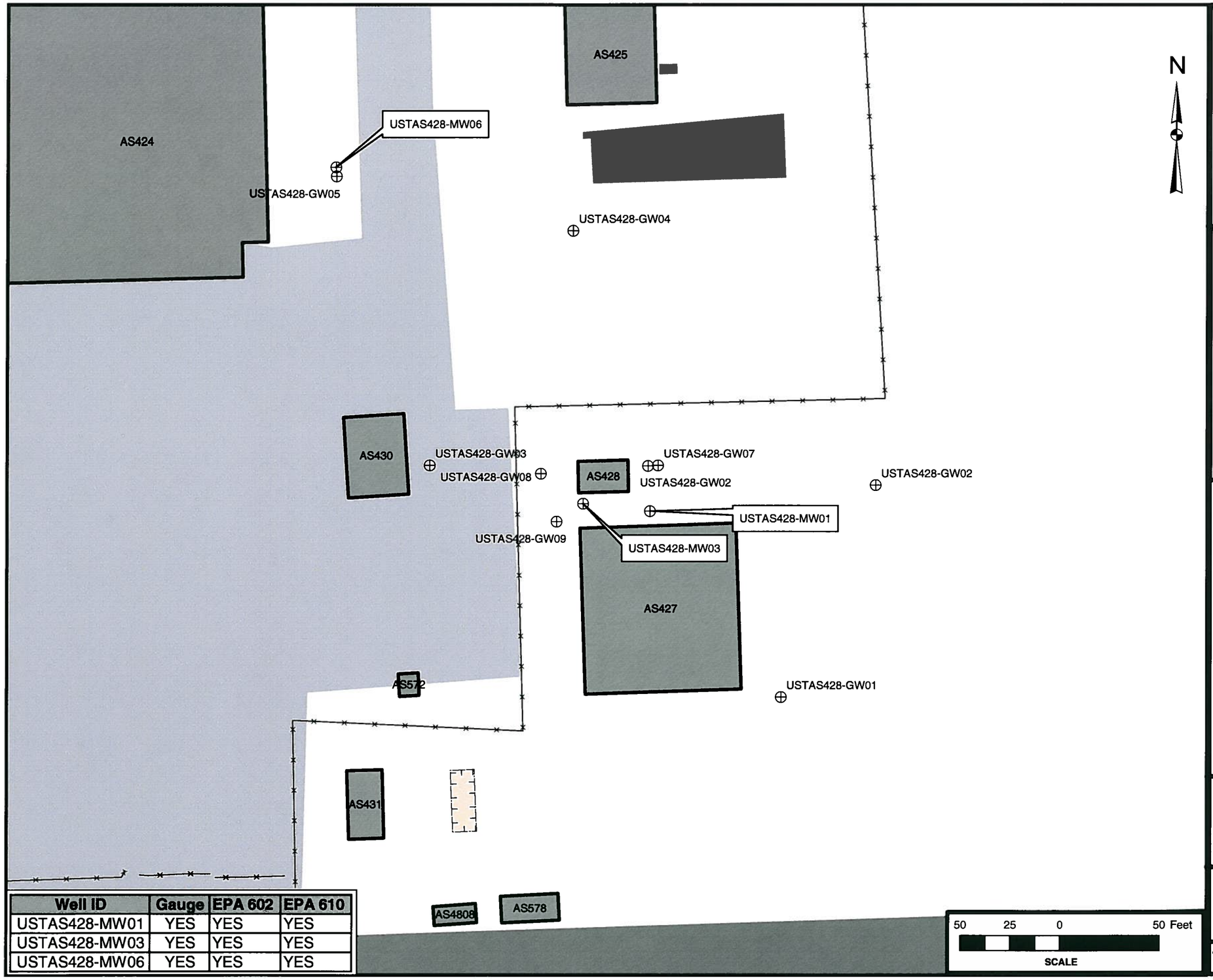
Well ID	Gauge	EPA 6210D	MADEP VPH/EPH
USTAS410S-MW06	YES	YES	YES
USTAS410S-MW07	YES	YES	YES

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SITE AS-410S - YEAR 2008
PROPOSED MONITORING PLAN

FIGURE 3

Job No.:	Date:	Scale:	Drawn By:	Checked By:
207-002	JAN 2008	AS SHOWN	KAWS	MEM



Well ID	Gauge	EPA 602	EPA 610
USTAS428-MW01	YES	YES	YES
USTAS428-MW03	YES	YES	YES
USTAS428-MW06	YES	YES	YES

50 25 0 50 Feet

SCALE

MCB CAMP LEJEUNE
UST MANAGEMENT PROGRAM
CALENDAR YEAR 2007

NAVFAC
Naval Facilities Engineering Command

LEGEND

Monitoring Wells
- Type I
- Type II
- Type III
- Pumping Well
- Unknown Well Type
- Water Supply Wells
- Above Ground Storage Tank
- Underground Storage Tank
- Railroad Tracks

Walls and Fences
- FENCE
- GATE
- WALL

- Buildings and Structures
- Demolished Structures
- Oil/Water Separators
- Slabs
- Roads
- Driveways
- Parking Lots
- Surface Water Bodies
- Creeks and Streams
- Groundwater Flow Direction

Vegetation Cover
- Forestland
- Scrubland
- Wetland

Airfield Pavement
- HELIPAD
- RAMP
- RUNWAY
- SHLDR_OVERRUN
- TAXIWAY

NOTES

1. Site was last sampled in 2001; therefore, CATLIN recommends sampling the monitoring wells which exhibited noncompliant groundwater contaminant levels during the 2001 J.A. Jones AMR. Site should be sampled in July 208. Results due to CATLIN in EDD format by September 1, 2008.

CATLIN
Engineers and Scientists

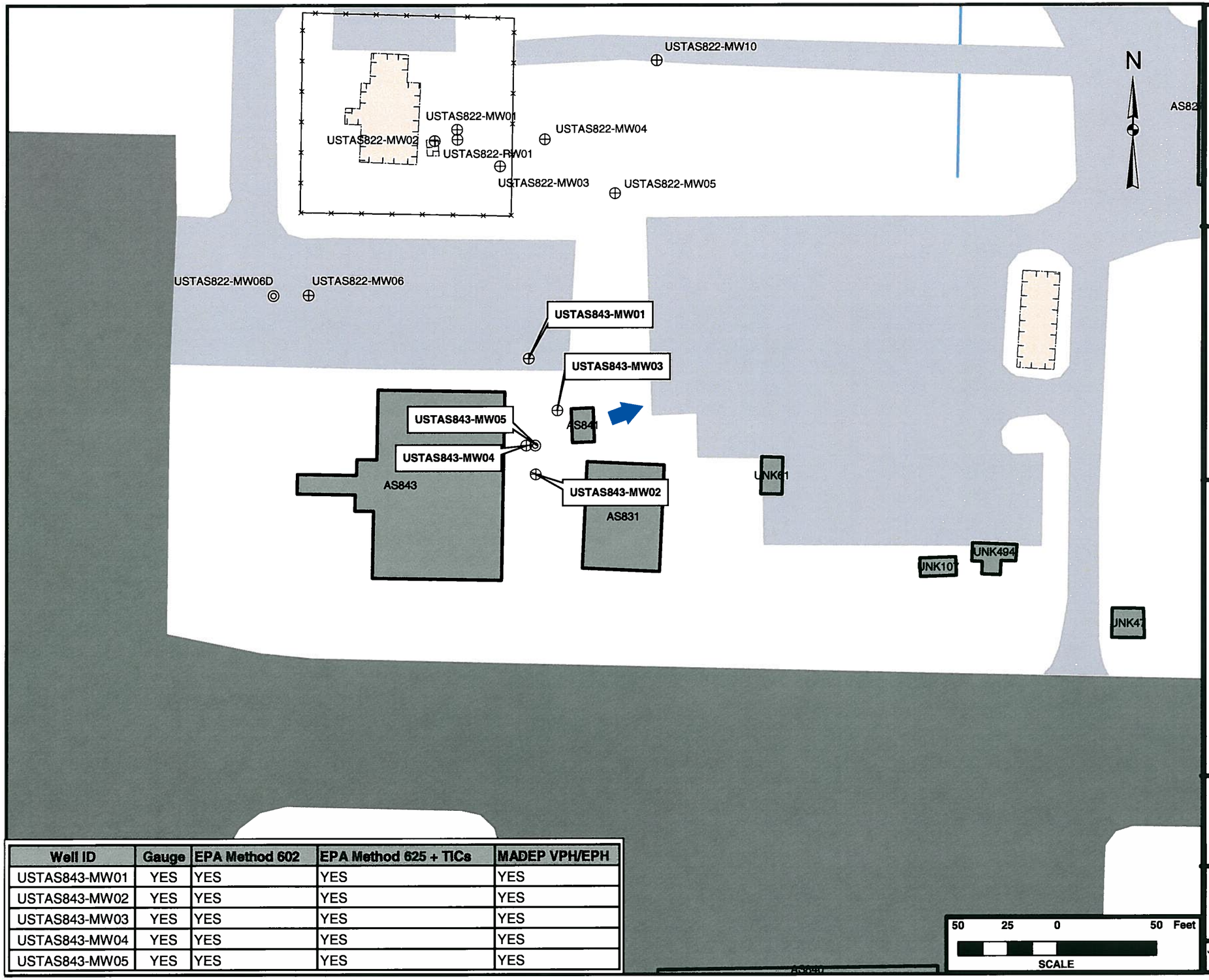
SITE AS-428 - YEAR 2008
PROPOSED MONITORING PLAN

FIGURE 4

Job No.:	Date:	Scale:	Drawn By:	Checked By:
207-002	JAN 2008	AS SHOWN	SAC	MEM

MCB CAMP LEJEUNE
UST MANAGEMENT PROGRAM
CALENDAR YEAR 2007

NAVFAC
Naval Facilities Engineering Command



LEGEND

Monitoring Wells
- Type I
- Type II
- Type III
- Pumping Well
- Unknown Well Type
- Water Supply Wells
- Above Ground Storage Tank
- Underground Storage Tank
- Railroad Tracks

Walls and Fences
- FENCE
- GATE
- WALL

- Buildings and Structures
- Demolished Structures
- Oil/Water Separators
- Slabs
- Roads
- Driveways
- Parking Lots
- Surface Water Bodies
- Creeks and Streams
- Groundwater Flow Direction

Vegetation Cover
- Forestland
- Scrubland
- Wetland

Airfield Pavement
- HELIPAD
- RAMP
- RUNWAY
- SHLDR_OVERRUN
- TAXIWAY

NOTES

1. Monitoring currently being conducted by Sovereign. Site should be gauged semi-annually and sampled biennial. Therefore, as the site was sampled in July 2006 the next sampling event should be conducted in July 2008. Results due to CATLIN in EDD format by September 1, 2008.

2. Site to be gauged between January 1 and January 31, 2009. Results due to CATLIN in EDD format by March 1, 2009.

Well ID	Gauge	EPA Method 602	EPA Method 625 + TICs	MADEP VPH/EPH
USTAS843-MW01	YES	YES	YES	YES
USTAS843-MW02	YES	YES	YES	YES
USTAS843-MW03	YES	YES	YES	YES
USTAS843-MW04	YES	YES	YES	YES
USTAS843-MW05	YES	YES	YES	YES

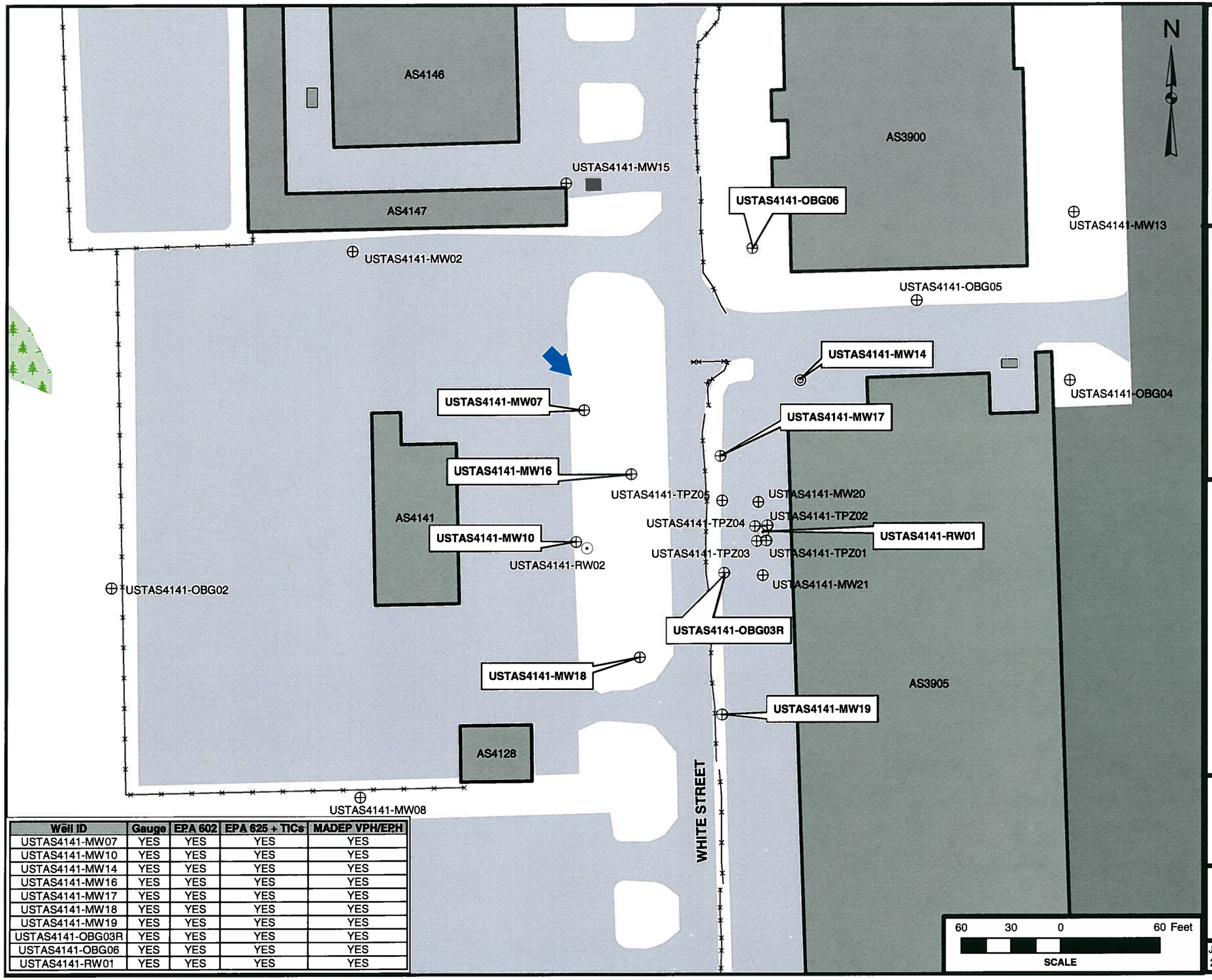
50 25 0 50 Feet
SCALE

CATLIN
Engineers and Scientists

SITE AS-843 - YEAR 2008
PROPOSED MONITORING PLAN

FIGURE
6

Job No.:	Date:	Scale:	Drawn By:	Checked By:
207-002	JAN 2008	AS SHOWN	SAC	MEM



Well ID	Gauge	EPA 602	EPA 625 + TICs	MADEP VPH/EPH
USTAS4141-MW07	YES	YES	YES	YES
USTAS4141-MW10	YES	YES	YES	YES
USTAS4141-MW14	YES	YES	YES	YES
USTAS4141-MW16	YES	YES	YES	YES
USTAS4141-MW17	YES	YES	YES	YES
USTAS4141-MW18	YES	YES	YES	YES
USTAS4141-MW19	YES	YES	YES	YES
USTAS4141-OBG03R	YES	YES	YES	YES
USTAS4141-OBG06	YES	YES	YES	YES
USTAS4141-RW01	YES	YES	YES	YES

MCB CAMP LEJEUNE
UST MANAGEMENT PROGRAM
CALENDAR YEAR 2007

NAVFAC
Naval Facilities Engineering Command

LEGEND

Monitoring Wells
- Type I
- Type II
- Type III
- Pumping Well
- Unknown Well Type

Water Supply Wells
Above Ground Storage Tank
Underground Storage Tank
Railroad Tracks

Walls and Fences
- FENCE
- GATE
- WALL

Buildings and Structures
Demolished Structures
Oil/Water Separators
Slabs
Roads
Driveways
Parking Lots
Surface Water Bodies
Creeks and Streams
Groundwater Flow Direction

Vegetation Cover
- Forestland
- Scrubland
- Wetland

Airfield Pavement
- HELIPAD
- RAMP
- RUNWAY
- SHLDR_OVERRUN
- TAXIWAY

NOTES

1. Shaw currently monitorng site. CATLIN recommends continuing the semi-annual groundwater sampling schedule.

2. Site to be sampled between April 1 and April 30, 2008. Results due to CATLIN in EDD format by June 1, 2008.

3. Site to be sampled between October 1 and October 30, 2008. Results due to CATLIN in EDD format by December 1, 2008.

CATLIN
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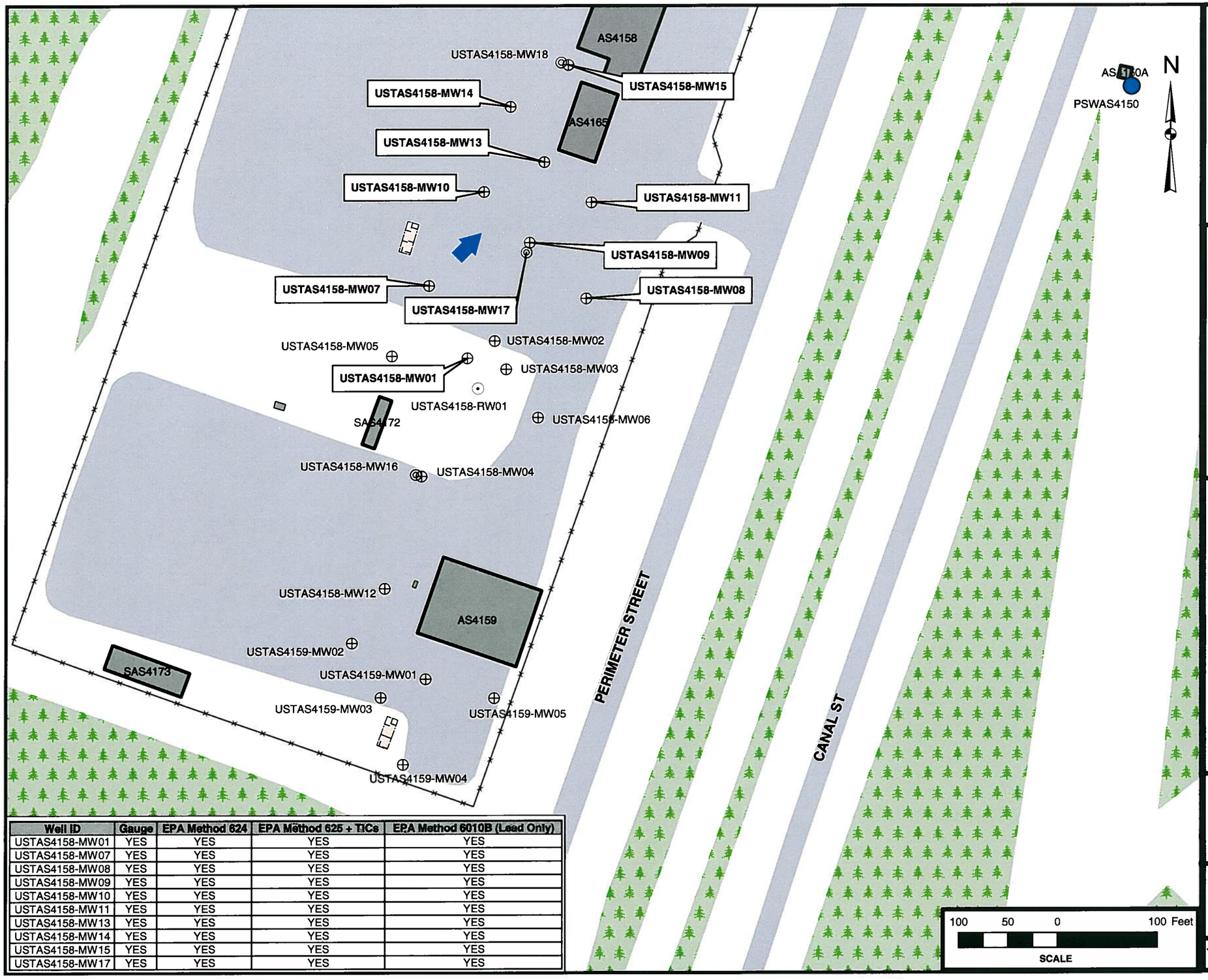
SITE AS-4141 - YEAR 2008
PROPOSED MONITORING PLAN

FIGURE 7

Job No.:	Date:	Scale:	Drawn By:	Checked By:
207-002	JAN 2008	AS SHOWN	SAC	MEM

MCB CAMP LEJEUNE
UST MANAGEMENT PROGRAM
CALENDAR YEAR 2007

NAVFAC
Naval Facilities Engineering Command



LEGEND

Monitoring Wells
- Type I
- Type II
- Type III
- Pumping Well
- Unknown Well Type
- Water Supply Wells
- Above Ground Storage Tank
- Underground Storage Tank
- Railroad Tracks

Walls and Fences
- FENCE
- GATE
- WALL

- Buildings and Structures
- Demolished Structures
- Oil/Water Separators
- Slabs
- Roads
- Driveways
- Parking Lots
- Surface Water Bodies
- Creeks and Streams
- Groundwater Flow Direction

Vegetation Cover
- Forestland
- Scrubland
- Wetland

Airfield Pavement
- HELIPAD
- RAMP
- RUNWAY
- SHLDR_OVERRUN
- TAXIWAY

NOTES

1. CATLIN recommends modifying the groundwater sampling frequency from quarterly to semi-annually. Therefore, as the site was to be sampled in January 2008, CATLIN recommends the site be sampled in July 2008. Results due to CATLIN in EDD format by September 1, 2009.

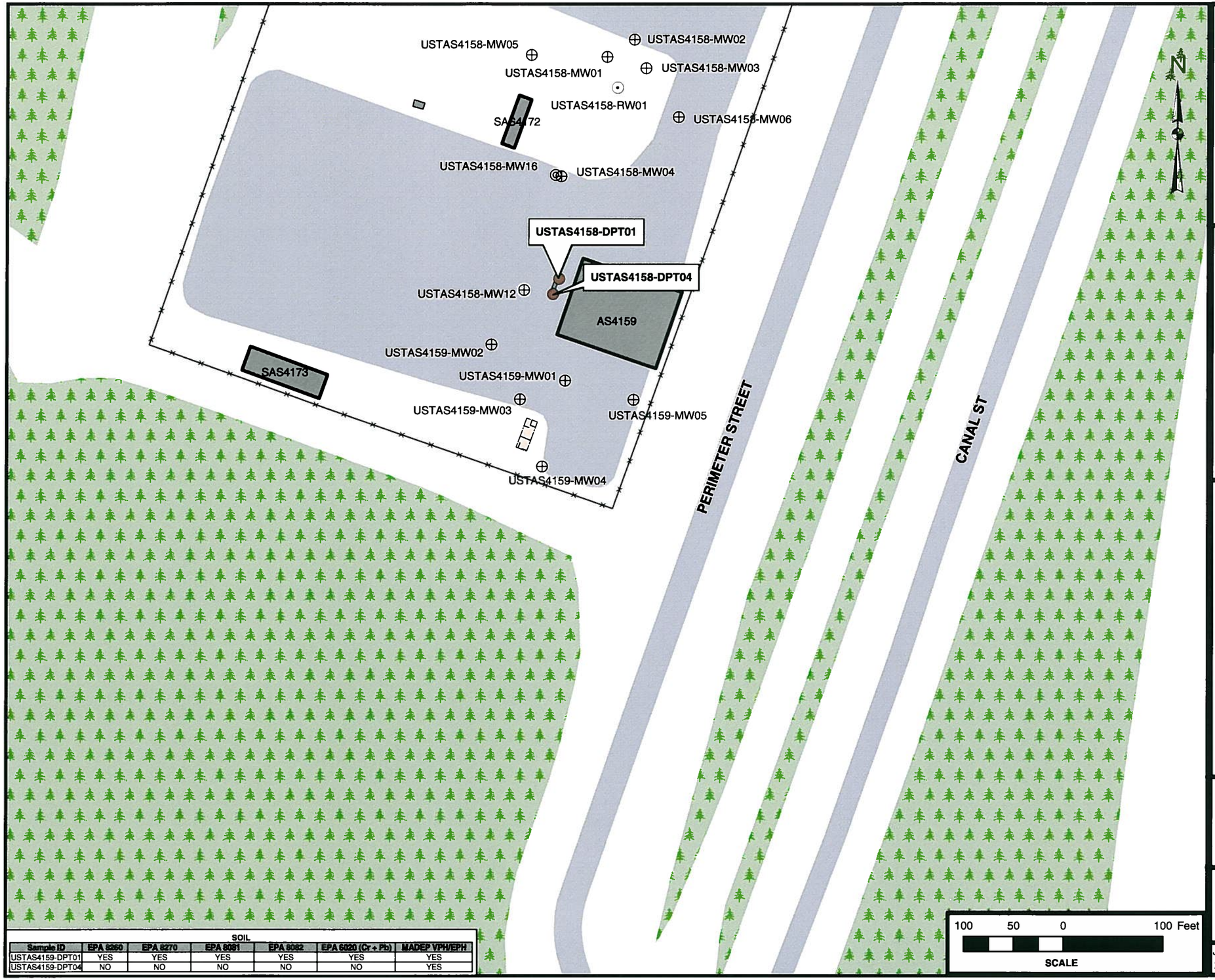
Well ID	Gauge	EPA Method 624	EPA Method 625 + TICs	EPA Method 6010B (Lead Only)
USTAS4158-MW01	YES	YES	YES	YES
USTAS4158-MW07	YES	YES	YES	YES
USTAS4158-MW08	YES	YES	YES	YES
USTAS4158-MW09	YES	YES	YES	YES
USTAS4158-MW10	YES	YES	YES	YES
USTAS4158-MW11	YES	YES	YES	YES
USTAS4158-MW13	YES	YES	YES	YES
USTAS4158-MW14	YES	YES	YES	YES
USTAS4158-MW15	YES	YES	YES	YES
USTAS4158-MW17	YES	YES	YES	YES

CATLIN
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SITE AS-4158 - YEAR 2008
PROPOSED MONITORING PLAN

FIGURE 8

Job No.:	Date:	Scale:	Drawn By:	Checked By:
207-002	JAN 2008	AS SHOWN	SAC	MEM



SOIL

Sample ID	EPA 8260	EPA 8270	EPA 8081	EPA 8082	EPA 6020 (Cr + Pb)	MADEP VPH/EPH
USTAS4159-DPT01	YES	YES	YES	YES	YES	YES
USTAS4159-DPT04	NO	NO	NO	NO	NO	YES

MCB CAMP LEJEUNE
UST MANAGEMENT PROGRAM
CALENDAR YEAR 2007

NAVFAC
Naval Facilities Engineering Command

LEGEND

Monitoring Wells
- Type I
- Type II
- Type III
- Pumping Well
- Unknown Well Type
- Water Supply Wells
- Above Ground Storage Tank
- Underground Storage Tank
- Railroad Tracks

Walls and Fences
- FENCE
- GATE
- WALL

- Buildings and Structures
- Demolished Structures
- Oil/Water Separators
- Slabs
- Roads
- Driveways
- Parking Lots
- Surface Water Bodies
- Creeks and Streams
- Groundwater Flow Direction

Vegetation Cover
- Forestland
- Scrubland
- Wetland

Airfield Pavement
- HELIPAD
- RAMP
- RUNWAY
- SHLDR_OVERRUN
- TAXIWAY

NOTES

1. CATLIN recommends collecting soil samples at the proposed locations to determine if contaminant levels have attenuated to below the Residential MSCCs.

CATLIN
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SITE AS-4159-3 - YEAR 2008
PROPOSED MONITORING PLAN

FIGURE 9

Job No.:	Date:	Scale:	Drawn By:	Checked By:
207-002	JAN 2008	AS SHOWN	SAC	MEM

MCB CAMP LEJEUNE
UST MANAGEMENT PROGRAM
CALENDAR YEAR 2007

NAVFAC
Naval Facilities Engineering Command

N

CAMPBELL STREET

WHITE STREET

CANAL ST

USTCSFF-MW10
USTCSFF-MW11
USTCSFF-MW17
USTCSFF-MW07
USTCSFF-DW05
USTCSFF-MW26
USTCSFF-MW20
USTCSFF-MW05
AS144
USTCSFF-MW04
USTCSFF-DW02
SAS146
USTCSFF-DW01
AS145
USTCSFF-MW03
USTAS142-MW01
USTCSFF-DW06
USTCSFF-MW08
USTCSFF-MW16
USTCSFF-MW09
USTCSFF-DW04
USTCSFF-MW12
USTCSFF-MW14
USTCSFF-MW18
USTAS143-MW26
USTCSFF-MW24
USTCSFF-MW15
USTCSFF-MW22
USTJP5-MW01
AS4136
AS4145
USTCSFF-MW06
USTAS4151-MW13
USTAS4151-MW12
USTAS4151-MW07
USTAS4151-MW03
USTAS4151-MW04
USTAS4151-MW08
USTAS4151-MW13A
AS4151
USTAS4151-DW01A
USTAS4151-MW05
AS553
USTAS4151-DW02
USTAS4151-RW01
USTAS4151-DW01
USTAS4151-MW09
USTAS4151-MW11
USTAS4151-MW02
USTAS4151-MW10
USTAS4151-MW01
USTAS4151-MW02A
USTAS4151-MW14
SAS4164
USTAS4151-MW06
SAS4155

Well ID	Gauge
USTCSFF-MW03	YES
USTCSFF-MW04	YES
USTCSFF-MW16	YES
USTCSFF-MW17	YES
USTCSFF-MW26	YES

LEGEND

Monitoring Wells
- Type I
- Type II
- Type III
- Pumping Well
- Unknown Well Type

Water Supply Wells

Above Ground Storage Tank

Underground Storage Tank

Railroad Tracks

Walls and Fences
- FENCE
- GATE
- WALL

Buildings and Structures
Demolished Structures
Oil/Water Separators
Slabs
Roads
Driveways
Parking Lots
Surface Water Bodies
Creeks and Streams
Groundwater Flow Direction

Vegetation Cover
- Forestland
- Scrubland
- Wetland

Airfield Pavement
- HELIPAD
- RAMP
- RUNWAY
- SHLDR_OVERRUN
- TAXIWAY

NOTES

1. Currently five on-site montioring wells are being gauged on a monthly basis and all on-site monitoring wells are being gauged once annually. CATLIN recommends continuing this schedule initially during 2008, however once the LUR documentaion is finalized MCB Camp Lejeune should consider requesting NFA with LURs at this site.

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Engineers and Scientists

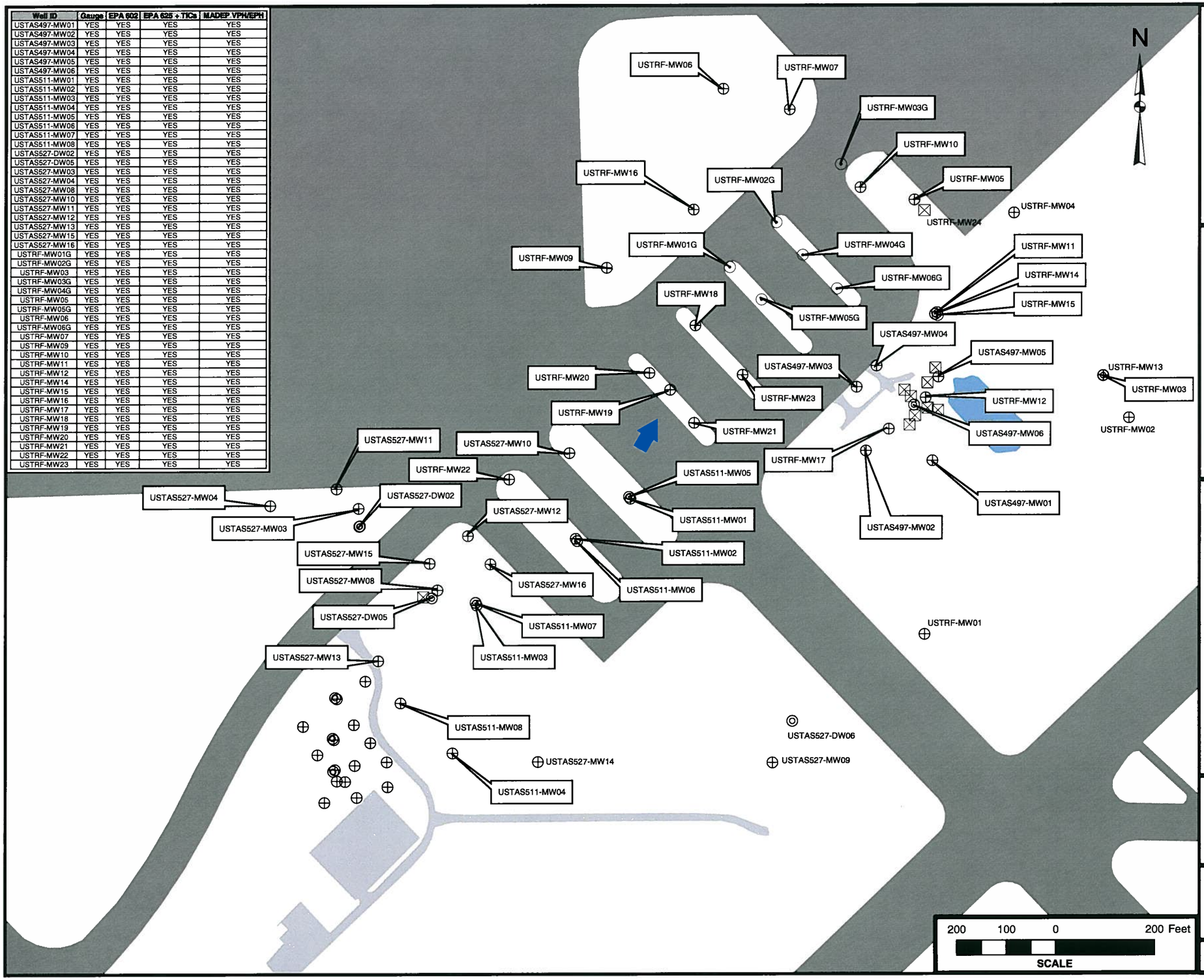
100 50 0 100 Feet
SCALE

SITE CSFF/AS-4151 - YEAR 2008
PROPOSED MONITORING PLAN

FIGURE
10

Job No.:	Date:	Scale:	Drawn By:	Checked By:
207-002	JAN 2008	AS SHOWN	SAC	MEM

Well ID	Gauge	EPA 602	EPA 625 + TICs	MADEP VPH/EPH
USTAS497-MW01	YES	YES	YES	YES
USTAS497-MW02	YES	YES	YES	YES
USTAS497-MW03	YES	YES	YES	YES
USTAS497-MW04	YES	YES	YES	YES
USTAS497-MW05	YES	YES	YES	YES
USTAS497-MW06	YES	YES	YES	YES
USTAS511-MW01	YES	YES	YES	YES
USTAS511-MW02	YES	YES	YES	YES
USTAS511-MW03	YES	YES	YES	YES
USTAS511-MW04	YES	YES	YES	YES
USTAS511-MW05	YES	YES	YES	YES
USTAS511-MW06	YES	YES	YES	YES
USTAS511-MW07	YES	YES	YES	YES
USTAS511-MW08	YES	YES	YES	YES
USTAS527-DW02	YES	YES	YES	YES
USTAS527-DW05	YES	YES	YES	YES
USTAS527-MW03	YES	YES	YES	YES
USTAS527-MW04	YES	YES	YES	YES
USTAS527-MW08	YES	YES	YES	YES
USTAS527-MW10	YES	YES	YES	YES
USTAS527-MW11	YES	YES	YES	YES
USTAS527-MW12	YES	YES	YES	YES
USTAS527-MW13	YES	YES	YES	YES
USTAS527-MW15	YES	YES	YES	YES
USTAS527-MW16	YES	YES	YES	YES
USTRF-MW01G	YES	YES	YES	YES
USTRF-MW02G	YES	YES	YES	YES
USTRF-MW03	YES	YES	YES	YES
USTRF-MW03G	YES	YES	YES	YES
USTRF-MW04G	YES	YES	YES	YES
USTRF-MW05	YES	YES	YES	YES
USTRF-MW05G	YES	YES	YES	YES
USTRF-MW06	YES	YES	YES	YES
USTRF-MW06G	YES	YES	YES	YES
USTRF-MW07	YES	YES	YES	YES
USTRF-MW09	YES	YES	YES	YES
USTRF-MW10	YES	YES	YES	YES
USTRF-MW11	YES	YES	YES	YES
USTRF-MW12	YES	YES	YES	YES
USTRF-MW14	YES	YES	YES	YES
USTRF-MW15	YES	YES	YES	YES
USTRF-MW16	YES	YES	YES	YES
USTRF-MW17	YES	YES	YES	YES
USTRF-MW18	YES	YES	YES	YES
USTRF-MW19	YES	YES	YES	YES
USTRF-MW20	YES	YES	YES	YES
USTRF-MW21	YES	YES	YES	YES
USTRF-MW22	YES	YES	YES	YES
USTRF-MW23	YES	YES	YES	YES



MCB CAMP LEJEUNE
UST MANAGEMENT PROGRAM
CALENDAR YEAR 2007

NAVFAC
Naval Facilities Engineering Command

LEGEND

Monitoring Wells
- Type I
- Type II
- Type III
- Pumping Well
- Unknown Well Type
- Water Supply Wells
- Above Ground Storage Tank
- Underground Storage Tank
- Railroad Tracks

Walls and Fences
- FENCE
- GATE
- WALL

- Buildings and Structures
- Demolished Structures
- Oil/Water Separators
- Slabs
- Roads
- Driveways
- Parking Lots
- Surface Water Bodies
- Creeks and Streams
- Groundwater Flow Direction

Vegetation Cover
- Forestland
- Scrubland
- Wetland

Airfield Pavement
- HELIPAD
- RAMP
- RUNWAY
- SHLDR_OVERRUN
- TAXIWAY

NOTES

1. Site currently monitored by Shaw. CATLIN recommends continuing with the current annual groundwater monitoring schedule. As Catlin did not receive MADEP VPH/EPH analytical results from the October 2006 or the March 2007 monitoring events, this analytical method should be added for the next annual monitoring event.

2. Site to be sampled between March 1 and March 31, 2008. Results due to CATLIN in EDD format by May 1, 2008.

CATLIN
Engineers and Scientists

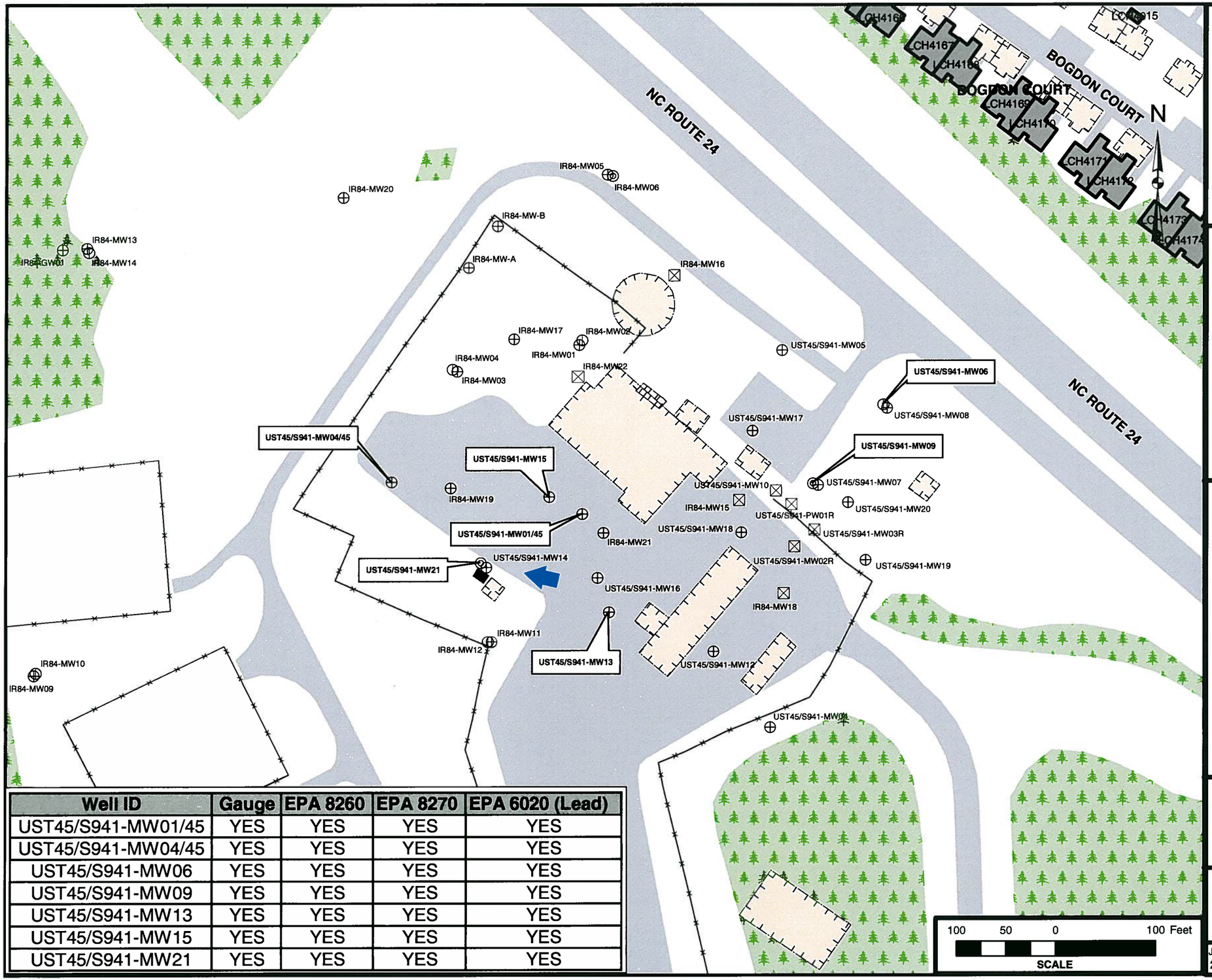
SITE Rapid Refueler - YEAR 2008
PROPOSED MONITORING PLAN

FIGURE
11

Job No.:	Date:	Scale:	Drawn By:	Checked By:
207-002	JAN 2008	AS SHOWN	SAC	MEM

MCB CAMP LEJEUNE
UST MANAGEMENT PROGRAM
CALENDAR YEAR 2007

NAVFAC
Naval Facilities Engineering Command



Well ID	Gauge	EPA 8260	EPA 8270	EPA 6020 (Lead)
UST45/S941-MW01/45	YES	YES	YES	YES
UST45/S941-MW04/45	YES	YES	YES	YES
UST45/S941-MW06	YES	YES	YES	YES
UST45/S941-MW09	YES	YES	YES	YES
UST45/S941-MW13	YES	YES	YES	YES
UST45/S941-MW15	YES	YES	YES	YES
UST45/S941-MW21	YES	YES	YES	YES

LEGEND

Monitoring Wells
- Type I
- Type II
- Type III
- Pumping Well
- Unknown Well Type
- Water Supply Wells
- Above Ground Storage Tank
- Underground Storage Tank
- Railroad Tracks

Walls and Fences
- FENCE
- GATE
- WALL

- Buildings and Structures
- Demolished Structures
- Oil/Water Separators
- Slabs
- Roads
- Driveways
- Parking Lots
- Surface Water Bodies
- Creeks and Streams
- Groundwater Flow Direction

Vegetation Cover
- Forestland
- Scrubland
- Wetland

Airfield Pavement
- HELIPAD
- RAMP
- RUNWAY
- SHLDR_OVERRUN
- TAXIWAY

NOTES

1. Sovereign currently monitoring site. Select on-site monitoring wells should be sampled semi-annually.

2. Site to be sampled between June 1 and June 30, 2008. Results due to CATLIN in EDD format by August 1, 2008.

3. Site to be sampled between December 1 and December 31, 2008. Results due to CATLIN in EDD format by February 1, 2009.

CATLIN
Engineers and Scientists

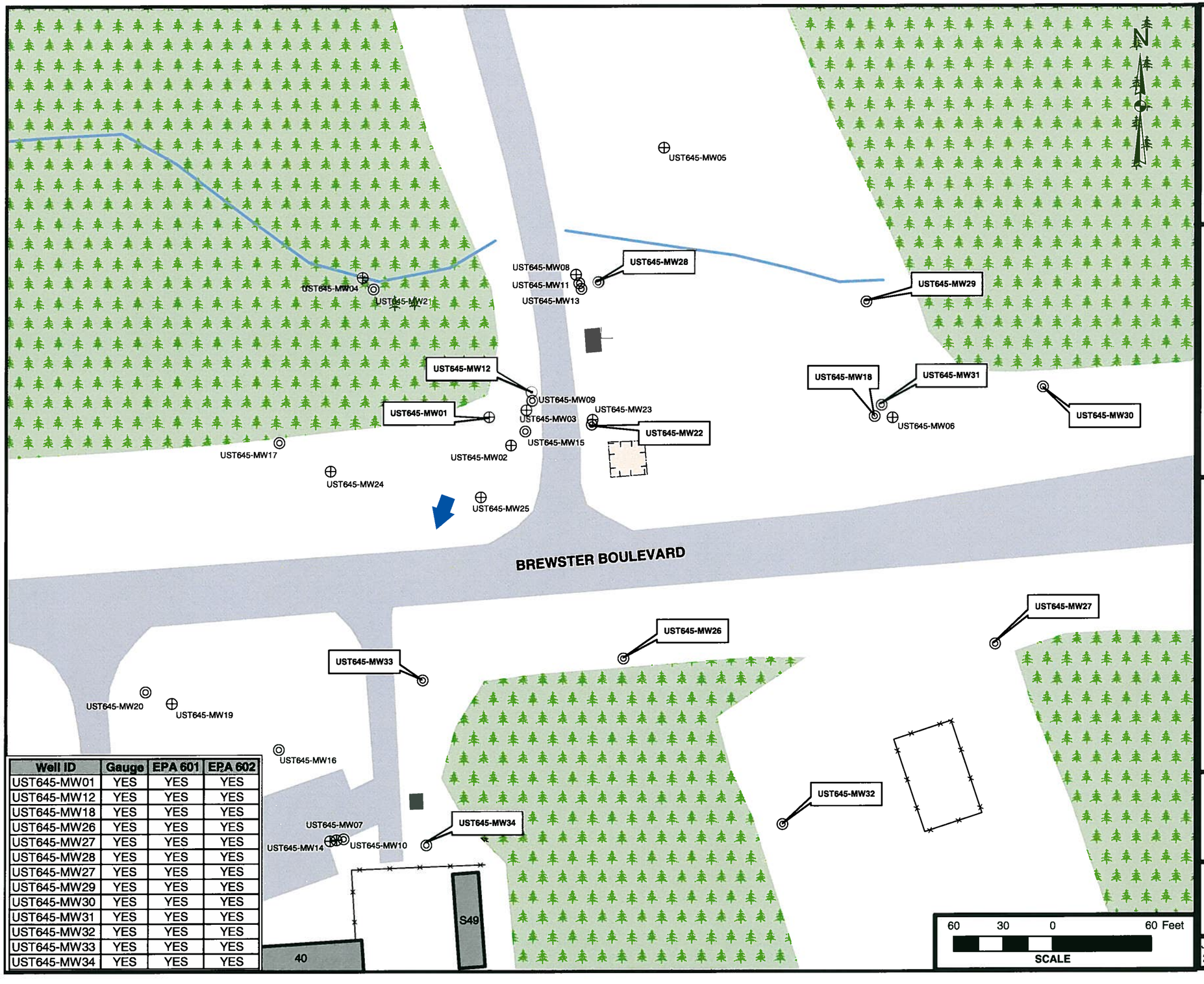
SITE 45/S941- YEAR 2008
PROPOSED MONITORING PLAN

FIGURE
12

Job No.:	Date:	Scale:	Drawn By:	Checked By:
207-002	JAN 2008	AS SHOWN	SAC	MEM

MCB CAMP LEJEUNE
UST MANAGEMENT PROGRAM
CALENDAR YEAR 2007

NAVFAC
Naval Facilities Engineering Command



Well ID	Gauge	EPA 601	EPA 602
UST645-MW01	YES	YES	YES
UST645-MW12	YES	YES	YES
UST645-MW18	YES	YES	YES
UST645-MW26	YES	YES	YES
UST645-MW27	YES	YES	YES
UST645-MW28	YES	YES	YES
UST645-MW27	YES	YES	YES
UST645-MW29	YES	YES	YES
UST645-MW30	YES	YES	YES
UST645-MW31	YES	YES	YES
UST645-MW32	YES	YES	YES
UST645-MW33	YES	YES	YES
UST645-MW34	YES	YES	YES

LEGEND

Monitoring Wells
- Type I
- Type II
- Type III
- Pumping Well
- Unknown Well Type
- Water Supply Wells
- Above Ground Storage Tank
- Underground Storage Tank
- Railroad Tracks

Walls and Fences
- FENCE
- GATE
- WALL

- Buildings and Structures
- Demolished Structures
- Oil/Water Separators
- Slabs
- Roads
- Driveways
- Parking Lots
- Surface Water Bodies
- Creeks and Streams
- Groundwater Flow Direction

Vegetation Cover
- Forestland
- Scrubland
- Wetland

Airfield Pavement
- HELIPAD
- RAMP
- RUNWAY
- SHLDR_OVERRUN
- TAXIWAY

NOTES

1. Sovereign currently monitorng site. Site should be sampled semi-annually . New deep wells are being installed by CATLIN and should be sampled during the next sampling event.

2. Site to be sampled between July 1 and July 31, 2008. Results due to CATLIN in EDD format by September 1, 2008.

CATLIN
Engineers and Scientists

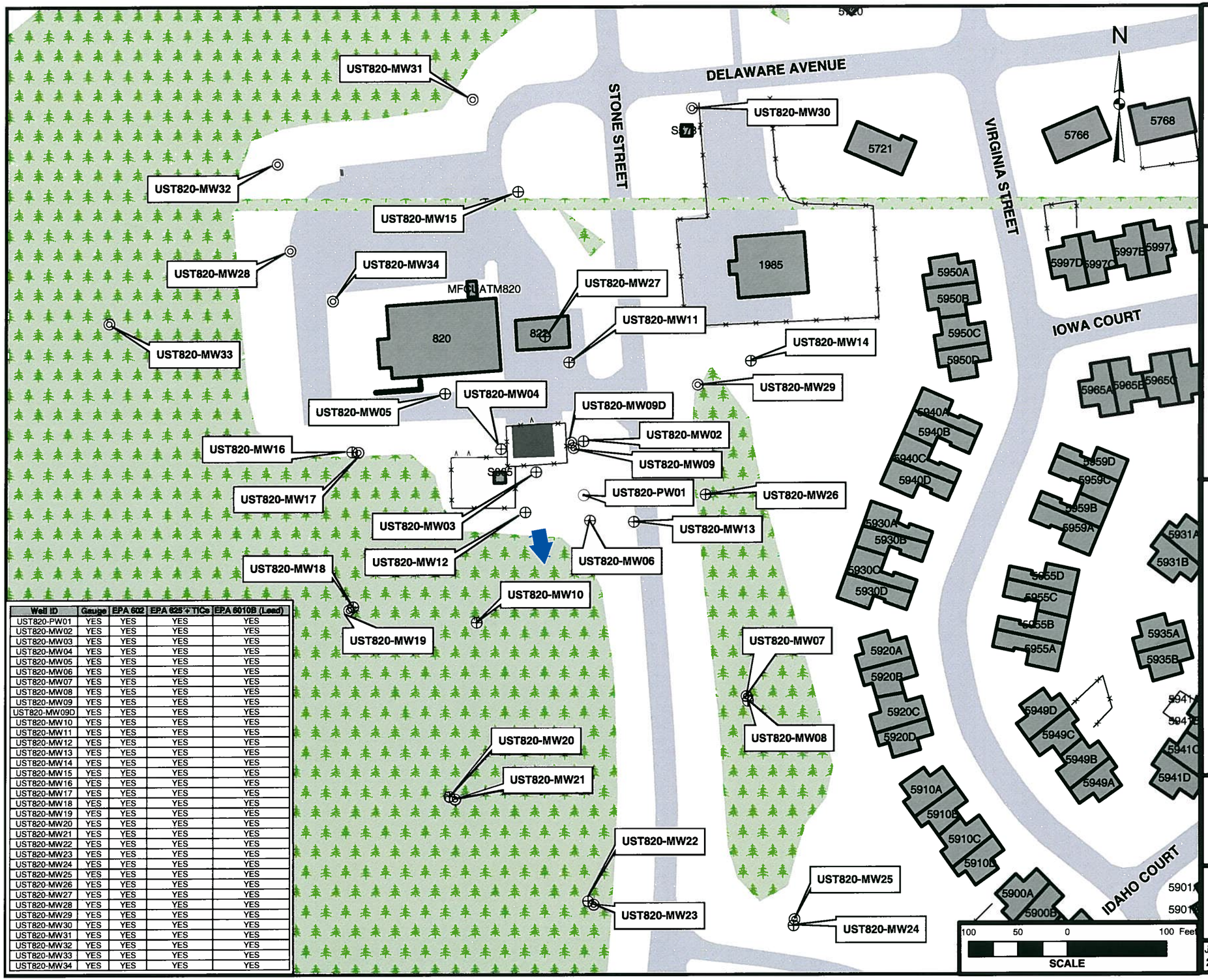
SITE 645 - YEAR 2008
PROPOSED MONITORING PLAN

FIGURE
13

Job No.:	Date:	Scale:	Drawn By:	Checked By:
207-002	JAN 2008	AS SHOWN	SAC	MEM

MCB CAMP LEJEUNE
UST MANAGEMENT PROGRAM
CALENDAR YEAR 2007

NAVFAC
Naval Facilities Engineering Command



Well ID	Gauge	EPA 602	EPA 625 + TICs	EPA 6010B (Lead)
UST820-PW01	YES	YES	YES	YES
UST820-MW02	YES	YES	YES	YES
UST820-MW03	YES	YES	YES	YES
UST820-MW04	YES	YES	YES	YES
UST820-MW05	YES	YES	YES	YES
UST820-MW06	YES	YES	YES	YES
UST820-MW07	YES	YES	YES	YES
UST820-MW08	YES	YES	YES	YES
UST820-MW09	YES	YES	YES	YES
UST820-MW09D	YES	YES	YES	YES
UST820-MW10	YES	YES	YES	YES
UST820-MW11	YES	YES	YES	YES
UST820-MW12	YES	YES	YES	YES
UST820-MW13	YES	YES	YES	YES
UST820-MW14	YES	YES	YES	YES
UST820-MW15	YES	YES	YES	YES
UST820-MW16	YES	YES	YES	YES
UST820-MW17	YES	YES	YES	YES
UST820-MW18	YES	YES	YES	YES
UST820-MW19	YES	YES	YES	YES
UST820-MW20	YES	YES	YES	YES
UST820-MW21	YES	YES	YES	YES
UST820-MW22	YES	YES	YES	YES
UST820-MW23	YES	YES	YES	YES
UST820-MW24	YES	YES	YES	YES
UST820-MW25	YES	YES	YES	YES
UST820-MW26	YES	YES	YES	YES
UST820-MW27	YES	YES	YES	YES
UST820-MW28	YES	YES	YES	YES
UST820-MW29	YES	YES	YES	YES
UST820-MW30	YES	YES	YES	YES
UST820-MW31	YES	YES	YES	YES
UST820-MW32	YES	YES	YES	YES
UST820-MW33	YES	YES	YES	YES
UST820-MW34	YES	YES	YES	YES

LEGEND

Monitoring Wells
- Type I
- Type II
- Type III
- Pumping Well
- Unknown Well Type
- Water Supply Wells
- Above Ground Storage Tank
- Underground Storage Tank
- Railroad Tracks

Walls and Fences
- FENCE
- GATE
- WALL

- Buildings and Structures
- Demolished Structures
- Oil/Water Separators
- Slabs
- Roads
- Driveways
- Parking Lots
- Surface Water Bodies
- Creeks and Streams
- Groundwater Flow Direction

Vegetation Cover
- Forestland
- Scrubland
- Wetland

Airfield Pavement
- HELIPAD
- RAMP
- RUNWAY
- SHLDR_OVERRUN
- TAXIWAY

NOTES

1. Shaw currently monitoring this site. CATLIN recommends continuing the current monitoring schedule of annual sampling.

2. The site is to be sampled between October 1 and October 31, 2008. Results are due to CATLIN in EDD format by December 1, 2008.

CATLIN
Engineers and Scientists

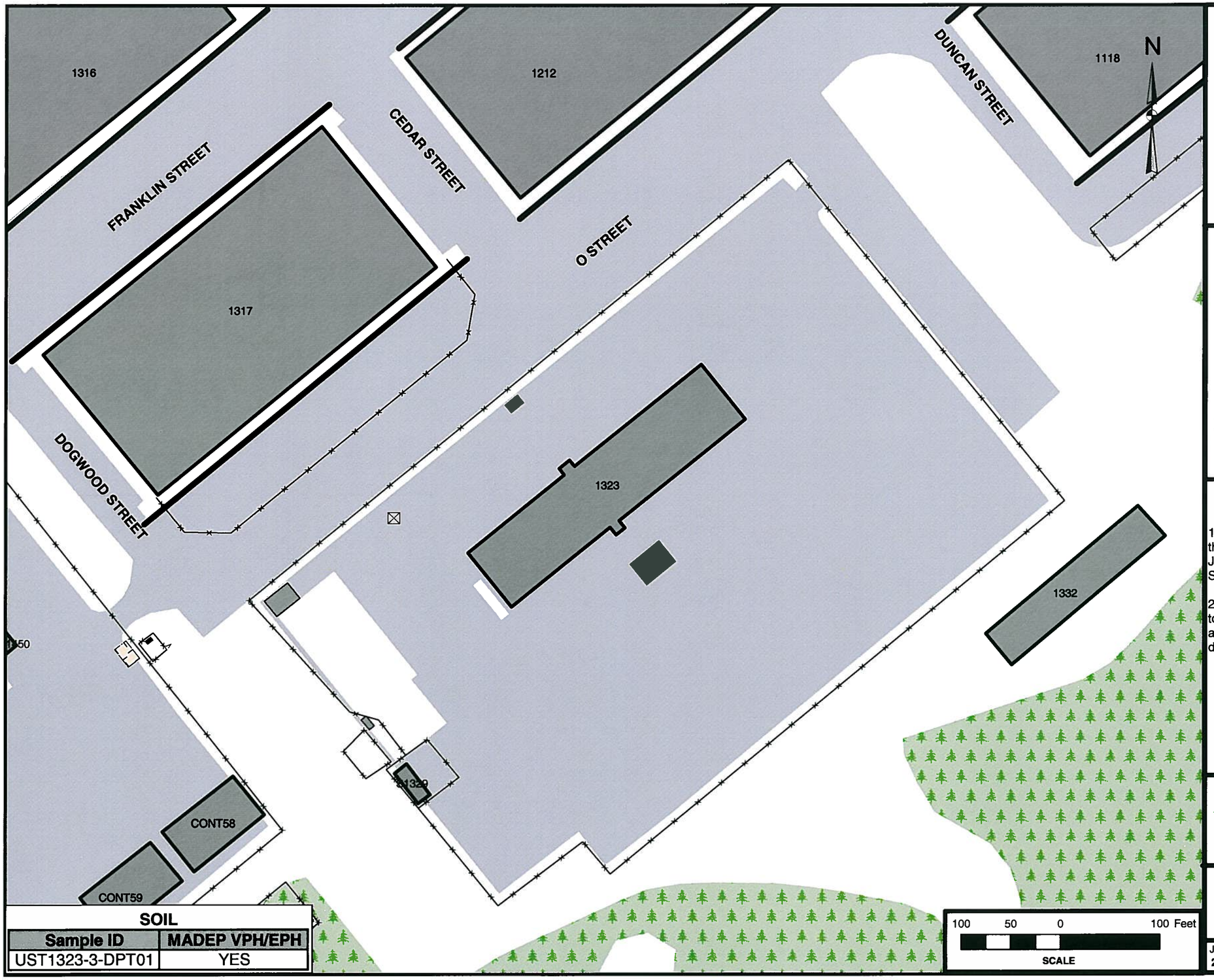
SITE 820 - YEAR 2008
PROPOSED MONITORING PLAN

FIGURE
14

Job No.:	Date:	Scale:	Drawn By:	Checked By:
207-002	JAN 2008	AS SHOWN	SAC	MEM

MCB CAMP LEJEUNE
UST MANAGEMENT PROGRAM
CALENDAR YEAR 2007

NAVFAC
Naval Facilities Engineering Command



LEGEND

Monitoring Wells
- Type I
- Type II
- Type III
- Pumping Well
- Unknown Well Type
- Water Supply Wells
- Above Ground Storage Tank
- Underground Storage Tank
- Railroad Tracks

Walls and Fences
- FENCE
- GATE
- WALL

- Buildings and Structures
- Demolished Structures
- Oil/Water Separators
- Slabs
- Roads
- Driveways
- Parking Lots
- Surface Water Bodies
- Creeks and Streams
- Groundwater Flow Direction

Vegetation Cover
- Forestland
- Scrubland
- Wetland

Airfield Pavement
- HELIPAD
- RAMP
- RUNWAY
- SHLDR_OVERRUN
- TAXIWAY

NOTES

1. CATLIN recommends collecting one soil sample from the previous location (1323-3-4R). Site should be sampled in July 2008 and data due to CATLIN in EDD format by September 1, 2008.

2. Additional research or a site recon needs to be conducted to determine where the previous sampling was completed as the figure in the previous reports was inadequate to determine the location of the previous sampling.

SOIL

Sample ID	MADEP VPH/EPH
UST1323-3-DPT01	YES

100 50 0 100 Feet
SCALE

CATLIN
Engineers and Scientists

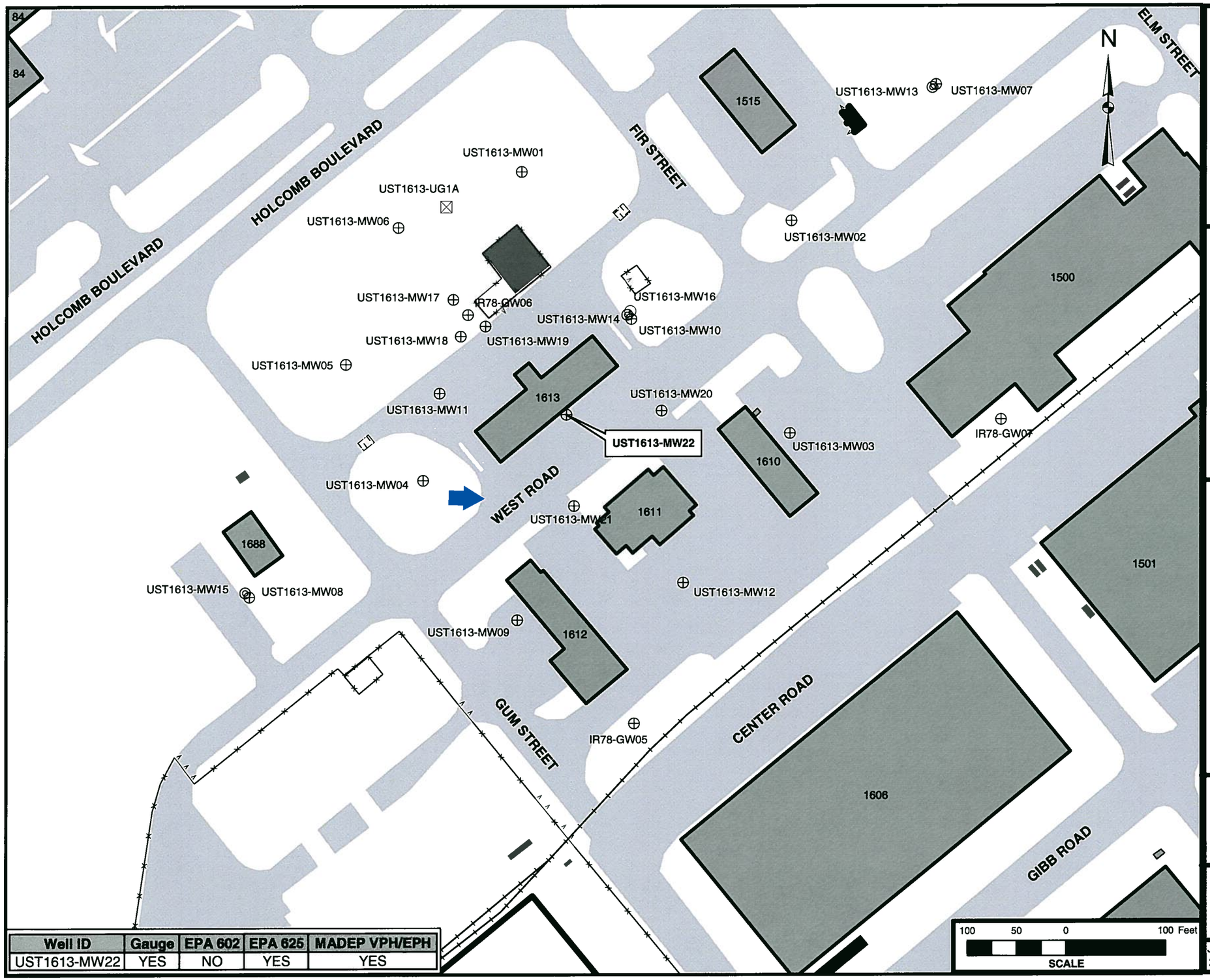
SITE 1323-3 - YEAR 2008
PROPOSED MONITORING PLAN

FIGURE
16

Job No.:	Date:	Scale:	Drawn By:	Checked By:
207-002	JAN 2008	AS SHOWN	SAC	MEM

MCB CAMP LEJEUNE
UST MANAGEMENT PROGRAM
CALENDAR YEAR 2007

NAVFAC
Naval Facilities Engineering Command



Well ID	Gauge	EPA 602	EPA 625	MADEP VPH/EPH
UST1613-MW22	YES	NO	YES	YES

LEGEND

Monitoring Wells
- Type I
- Type II
- Type III
- Pumping Well
- Unknown Well Type
- Water Supply Wells
- Above Ground Storage Tank
- Underground Storage Tank
- Railroad Tracks

Walls and Fences
- FENCE
- GATE
- WALL

- Buildings and Structures
- Demolished Structures
- Oil/Water Separators
- Slabs
- Roads
- Driveways
- Parking Lots
- Surface Water Bodies
- Creeks and Streams
- Groundwater Flow Direction

Vegetation Cover
- Forestland
- Scrubland
- Wetland

Airfield Pavement
- HELIPAD
- RAMP
- RUNWAY
- SHLDR_OVERRUN
- TAXIWAY

NOTES

1. Sovereign currently monitorng site. Monitoring well UST1613-MW22 should be sampled semi-annually.

2. Well to be sampled between February 1 and February 28, 2008. Results due to CATLIN in EDD format by April 1, 2008.

3. Well to be sampled between August 1 and August 31, 2008. Results due to CATLIN in EDD format by October 1, 2008.

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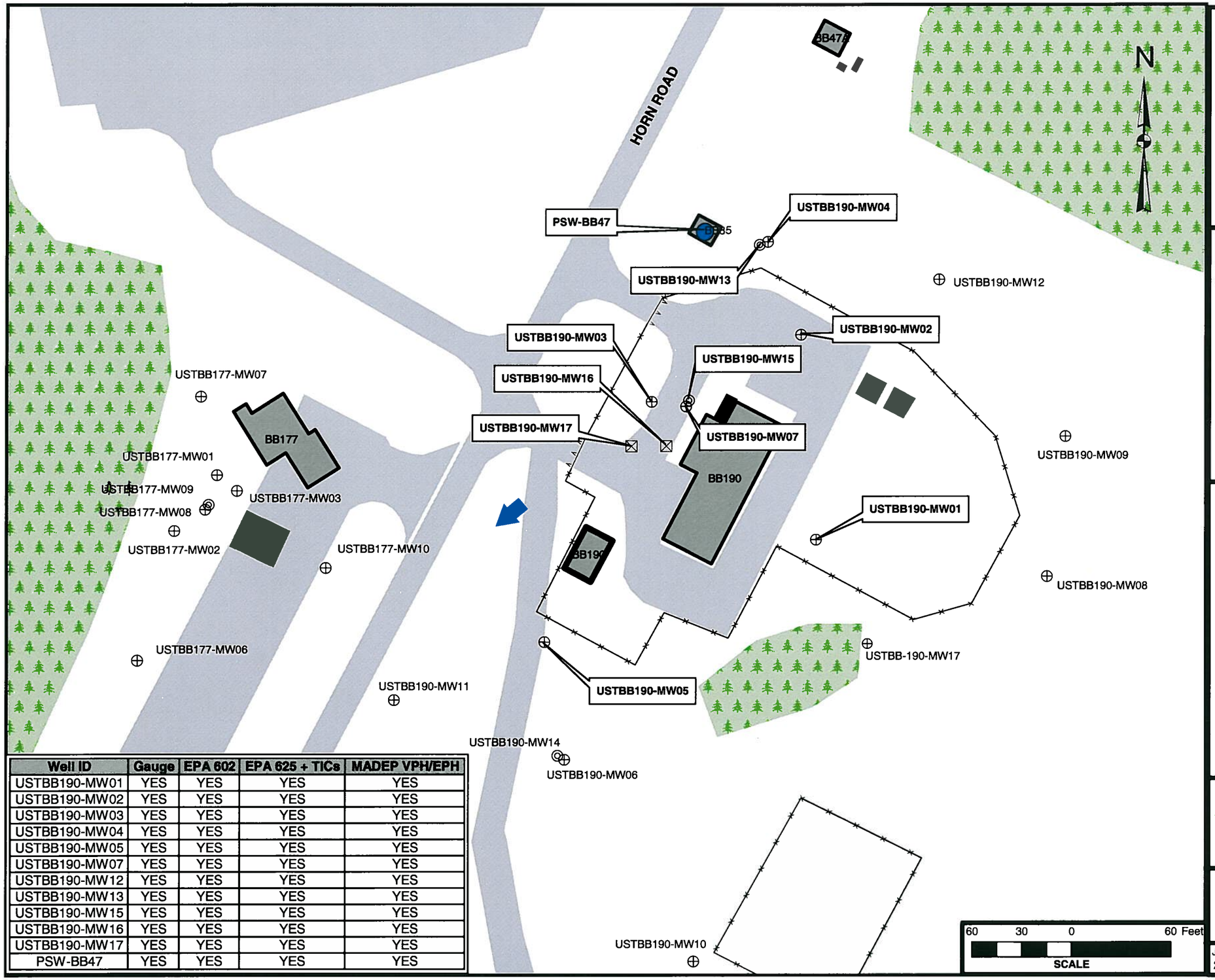
SITE 1613 - YEAR 2008
PROPOSED MONITORING PLAN

FIGURE
17

Job No.:	Date:	Scale:	Drawn By:	Checked By:
207-002	JAN 2008	AS SHOWN	SAC	MEM

MCB CAMP LEJEUNE
UST MANAGEMENT PROGRAM
CALENDAR YEAR 2007

NAVFAC
Naval Facilities Engineering Command



Well ID	Gauge	EPA 602	EPA 625 + TICs	MADEP VPH/EPH
USTBB190-MW01	YES	YES	YES	YES
USTBB190-MW02	YES	YES	YES	YES
USTBB190-MW03	YES	YES	YES	YES
USTBB190-MW04	YES	YES	YES	YES
USTBB190-MW05	YES	YES	YES	YES
USTBB190-MW07	YES	YES	YES	YES
USTBB190-MW12	YES	YES	YES	YES
USTBB190-MW13	YES	YES	YES	YES
USTBB190-MW15	YES	YES	YES	YES
USTBB190-MW16	YES	YES	YES	YES
USTBB190-MW17	YES	YES	YES	YES
PSW-BB47	YES	YES	YES	YES

LEGEND

Monitoring Wells
- Type I
- Type II
- Type III
- Pumping Well
- Unknown Well Type
- Water Supply Wells
- Above Ground Storage Tank
- Underground Storage Tank
- Railroad Tracks

Walls and Fences
- FENCE
- GATE
- WALL

- Buildings and Structures
- Demolished Structures
- Oil/Water Separators
- Slabs
- Roads
- Driveways
- Parking Lots
- Surface Water Bodies
- Creeks and Streams
- Groundwater Flow Direction

Vegetation Cover
- Forestland
- Scrubland
- Wetland

Airfield Pavement
- HELIPAD
- RAMP
- RUNWAY
- SHLDR_OVERRUN
- TAXIWAY

NOTES

1. Site currently monitored by Sovereign. Site should be sampled on an annual basis.

2. Site to be sampled between February 1 and February 28, 2008. Results due to CATLIN in EDD format by April 1, 2008.

CATLIN
Engineers and Scientists

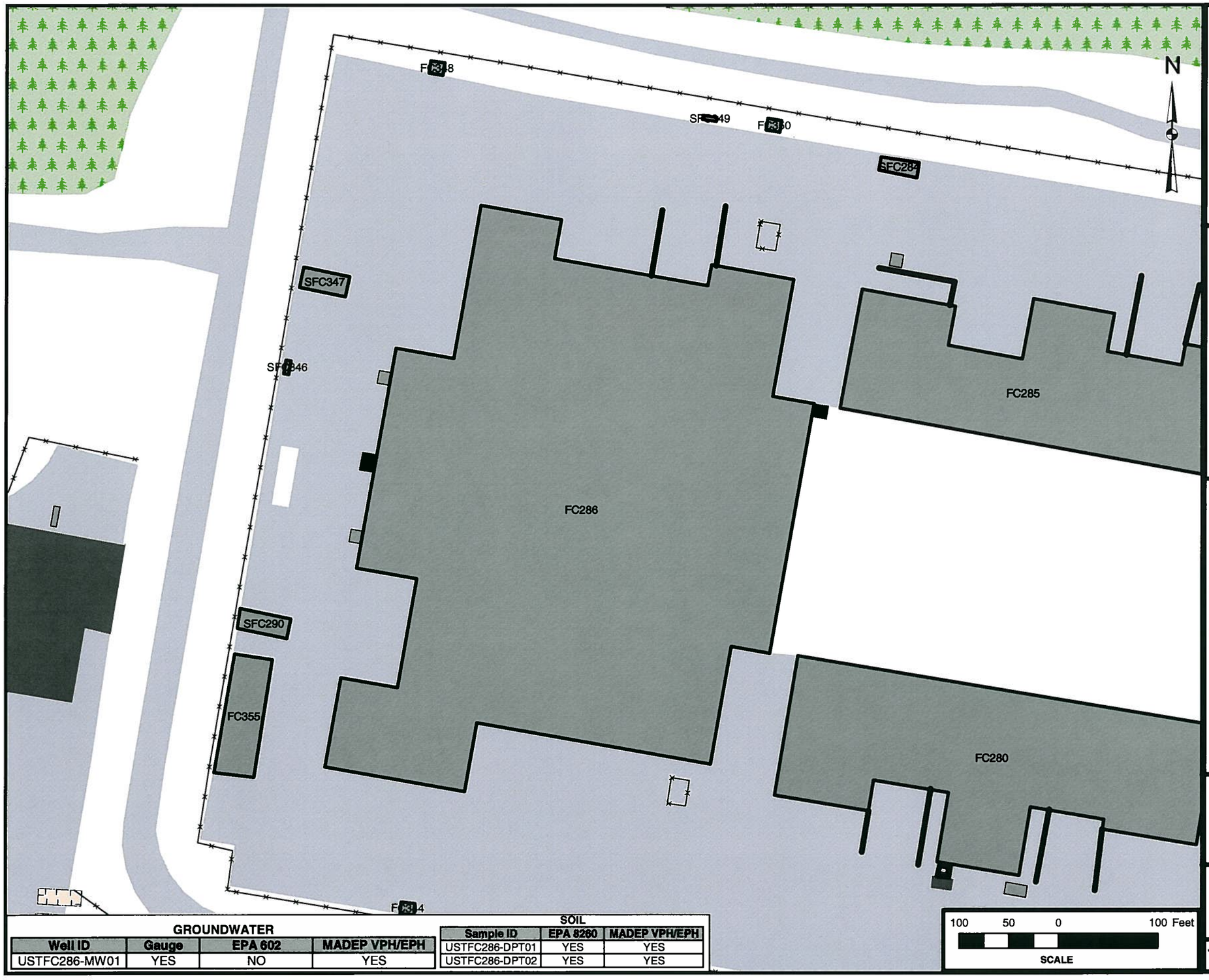
SITE BB-190 - YEAR 2008
PROPOSED MONITORING PLAN

FIGURE 18

Job No.:	Date:	Scale:	Drawn By:	Checked By:
207-002	JAN 2008	AS SHOWN	KAWS	MEM

MCB CAMP LEJEUNE
UST MANAGEMENT PROGRAM
CALENDAR YEAR 2007

NAVFAC
Naval Facilities Engineering Command



LEGEND

Monitoring Wells
- Type I
- Type II
- Type III
- Pumping Well
- Unknown Well Type
- Water Supply Wells
- Above Ground Storage Tank
- Underground Storage Tank
- Railroad Tracks

Walls and Fences
- FENCE
- GATE
- WALL

- Buildings and Structures
- Demolished Structures
- Oil/Water Separators
- Slabs
- Roads
- Driveways
- Parking Lots
- Surface Water Bodies
- Creeks and Streams
- Groundwater Flow Direction

Vegetation Cover
- Forestland
- Scrubland
- Wetland

Airfield Pavement
- HELIPAD
- RAMP
- RUNWAY
- SHLDR_OVERRUN
- TAXIWAY

NOTES

1. CATLIN recommends collecting two soil samples from the previous locations and installing a monitoring well to collect a groundwater sample. Site should be sampled in July 2008 and data due to CATLIN in EDD format by September 1, 2008.

2. Additional research or a site recon needs to be conducted to determine where the previous sampling was completed as the figure in the tank closure report was inadequate to determine the location of the previous sampling.

GROUNDWATER

Well ID	Gauge	EPA 602	MADEP VPH/EPH
USTFC286-MW01	YES	NO	YES

SOIL

Sample ID	EPA 8260	MADEP VPH/EPH
USTFC286-DPT01	YES	YES
USTFC286-DPT02	YES	YES

100 50 0 100 Feet
SCALE

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SITE FC-286 - YEAR 2008
PROPOSED MONITORING PLAN

FIGURE
21

Job No.:	Date:	Scale:	Drawn By:	Checked By:
207-002	JAN 2008	AS SHOWN	KAWS	MEM

MCB CAMP LEJEUNE
UST MANAGEMENT PROGRAM
CALENDAR YEAR 2007

NAVFAC
Naval Facilities Engineering Command

LEGEND

Monitoring Wells
- = Type I
- > Type II
- R Type III
- 5 Pumping Well
- S Unknown
- Water Supply Wells
- Above Ground Storage Tank
- Underground Storage Tank
- Railroad Tracks

Walls and Fences
- FENCE
- GATE
- WALL

- Buildings and Structures
- Demolished Structures
- Oil/Water Separators
- Slabs
- Roads
- Driveways
- Parking Lots
- Surface Water Bodies
- Creeks and Streams
- Historical Groundwater Flow Direction

Vegetation Cover
- FORESTLAND
- SCRUBLAND
- WETLAND

Airfield Pavement
- HELIPAD
- RAMP
- RUNWAY
- SHLDR_OVERRUN
- TAXIWAY

NOTES

1. Site currently being monitored by Shaw. A semi-annual sampling event of approximately 40 monitoring wells is recommended in February 2008. The analytical data from this sampling event is due to CATLIN in EDD format by April 1, 2008.

2. A more comprehensive sampling event is planned for August 2008 and approximately 75 montioring wells will be sampled. Data from this event is due to CATLIN in EDD format by October 1, 2008.

Well ID	Gauge	EPA 8260
IR78-GW17-02	YES	YES
IR78-GW32-02	YES	YES
IR78-GW32-03	YES	YES
UST1115GT-MW07	YES	YES
UST1115GT-MW09	YES	YES
UST1115-MW07	YES	YES
UST1115-MW09	YES	YES
UST1115-MW13	YES	YES
UST1115-MW14	YES	YES
UST1115-MW17	YES	YES
UST1115-MW18	YES	YES
UST1115-MW20	YES	YES
UST1115-MW21	YES	YES
UST1115-MW22	YES	YES
UST1115-MW24	YES	YES
UST1115-MW25	YES	YES
USTHPFFC-MW05	YES	YES
USTHPFFC-MW06	YES	YES
USTHPFFC-MW07	YES	YES
USTHPFFC-MW08	YES	YES
USTHPFFC-MW09	YES	YES
USTHPFFC-MW10	YES	YES
USTHPFFC-MW12	YES	YES
USTHPFFC-MW15	YES	YES
USTHPFFC-MW19	YES	YES
USTHPFFC-MW20	YES	YES
USTHPFFC-MW39	YES	YES
USTHPFFC-MW47	YES	YES
USTHPFFC-MW51	YES	YES
USTHPFFC-MW60	YES	YES
USTHPFFC-MW66	YES	YES
USTHPFFC-MW72	YES	YES
USTHPFF-MW01	YES	YES
USTHPFF-MW06	YES	YES
USTHPFF-MW10R	YES	YES
USTHPFF-MW12	YES	YES
USTHPFF-MW15	YES	YES
USTHPFF-MW17	YES	YES
USTHPFF-MW18	YES	YES

100 50 0 100 Feet
SCALE

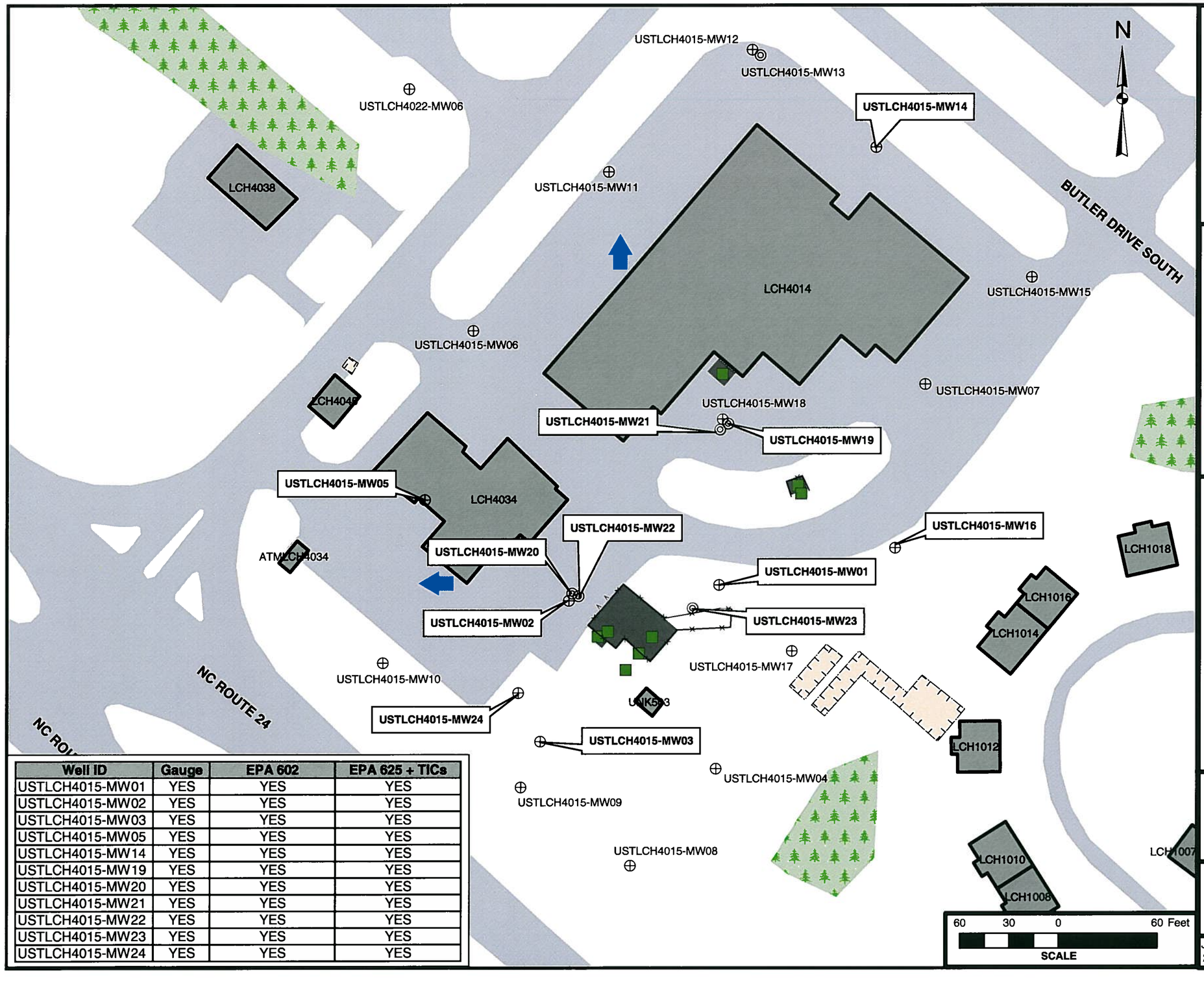
SITE HPFF - YEAR 2008
PROPOSED MONITORNG PLAN

FIGURE 24

Job No.:	Date:	Scale:	Drawn By:	Checked By:
207-002	JAN 2008	AS SHOWN	SAC	MEM

MCB CAMP LEJEUNE
UST MANAGEMENT PROGRAM
CALENDAR YEAR 2007

NAVFAC
Naval Facilities Engineering Command



LEGEND

Monitoring Wells
- Type I
- Type II
- Type III
- Pumping Well
- Unknown Well Type
- Water Supply Wells
- Above Ground Storage Tank
- Underground Storage Tank
- Railroad Tracks

Walls and Fences
- FENCE
- GATE
- WALL

- Buildings and Structures
- Demolished Structures
- Oil/Water Separators
- Slabs
- Roads
- Driveways
- Parking Lots
- Surface Water Bodies
- Creeks and Streams
- Groundwater Flow Direction

Vegetation Cover
- Forestland
- Scrubland
- Wetland

Airfield Pavement
- HELIPAD
- RAMP
- RUNWAY
- SHLDR_OVERRUN
- TAXIWAY

NOTES

1. Site sampling should be reduced from the semi-annual schedule currently in place to an annual sampling schedule. CATLIN recommends that EPA Method 6020 analysis be removed from the analysis list.

2. Site to be gauged between December 1 and December 31, 2008. Results due to CATLIN in EDD format by February 1, 2009.

Well ID	Gauge	EPA 602	EPA 625 + TICs
USTLCH4015-MW01	YES	YES	YES
USTLCH4015-MW02	YES	YES	YES
USTLCH4015-MW03	YES	YES	YES
USTLCH4015-MW05	YES	YES	YES
USTLCH4015-MW14	YES	YES	YES
USTLCH4015-MW19	YES	YES	YES
USTLCH4015-MW20	YES	YES	YES
USTLCH4015-MW21	YES	YES	YES
USTLCH4015-MW22	YES	YES	YES
USTLCH4015-MW23	YES	YES	YES
USTLCH4015-MW24	YES	YES	YES

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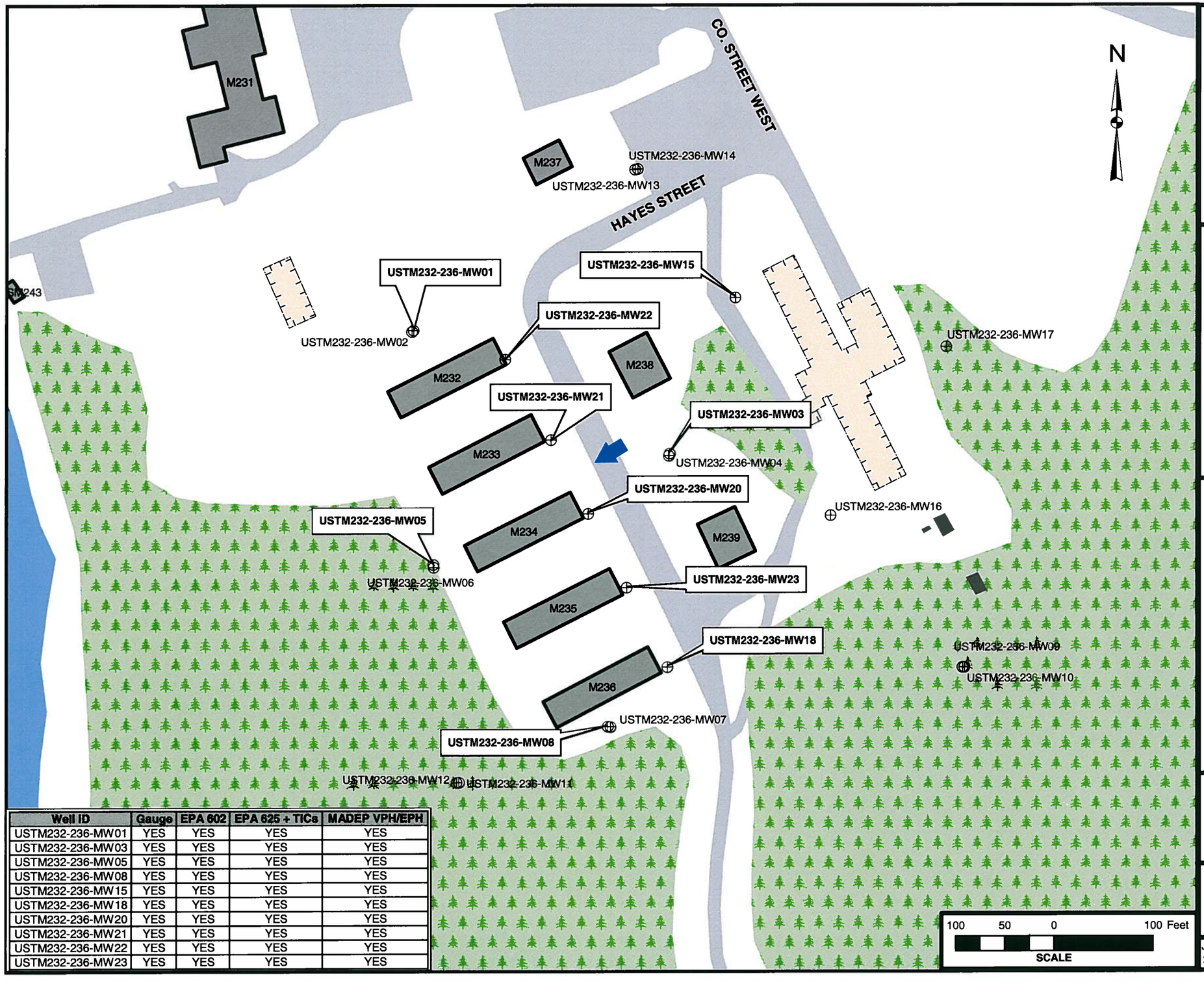
SITE LCH-4015 - YEAR 2008
PROPOSED MONITORING PLAN

FIGURE 25

Job No.:	Date:	Scale:	Drawn By:	Checked By:
207-002	JAN 2008	AS SHOWN	SAC	MEM

MCB CAMP LEJEUNE
UST MANAGEMENT PROGRAM
CALENDAR YEAR 2007

NAVFAC
Naval Facilities Engineering Command



LEGEND

Monitoring Wells
- Type I
- Type II
- Type III
- Pumping Well
- Unknown Well Type
- Water Supply Wells
- Above Ground Storage Tank
- Underground Storage Tank
- Railroad Tracks

Walls and Fences
- FENCE
- GATE
- WALL

- Buildings and Structures
- Demolished Structures
- Oil/Water Separators
- Slabs
- Roads
- Driveways
- Parking Lots
- Surface Water Bodies
- Creeks and Streams
- Groundwater Flow Direction

Vegetation Cover
- Forestland
- Scrubland
- Wetland

Airfield Pavement
- HELIPAD
- RAMP
- RUNWAY
- SHLDR_OVERRUN
- TAXIWAY

Well ID	Gauge	EPA 602	EPA 625 + TICs	MADEP VPH/EPH
USTM232-236-MW01	YES	YES	YES	YES
USTM232-236-MW03	YES	YES	YES	YES
USTM232-236-MW05	YES	YES	YES	YES
USTM232-236-MW08	YES	YES	YES	YES
USTM232-236-MW15	YES	YES	YES	YES
USTM232-236-MW18	YES	YES	YES	YES
USTM232-236-MW20	YES	YES	YES	YES
USTM232-236-MW21	YES	YES	YES	YES
USTM232-236-MW22	YES	YES	YES	YES
USTM232-236-MW23	YES	YES	YES	YES

NOTES

1. Monitoring currently being conducted by Sovereign. Site should be gauged quarterly and sampled semi-annually. Therefore, as the site was sampled in December 2007 the next sampling event should be conducted in June 2008. Results due to CATLIN in EDD format by August 1, 2008.

2. Site to be sampled between December 1 and December 31, 2008. Results due to CATLIN in EDD format by February 1, 2009.

CATLIN
Engineers and Scientists

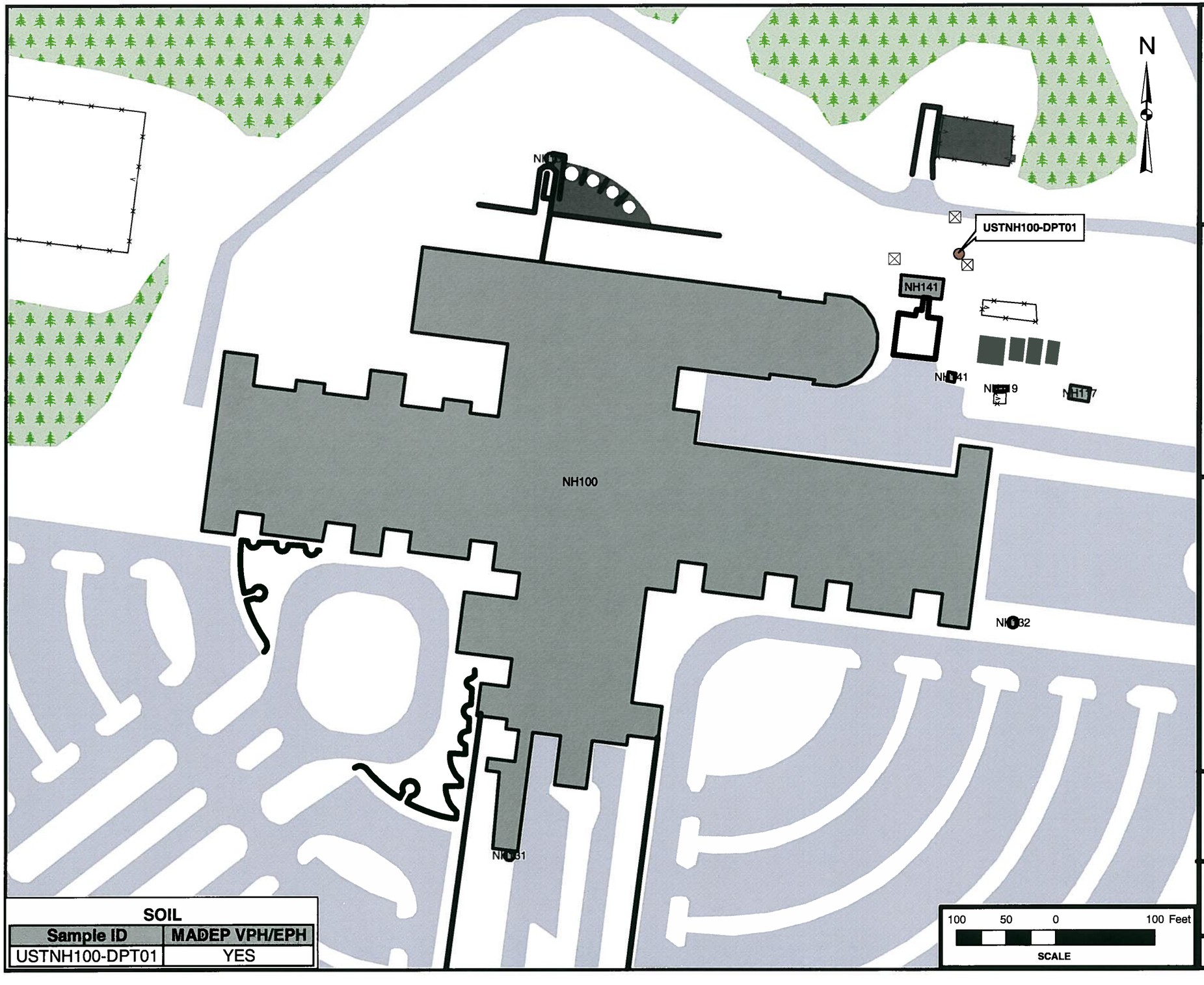
SITE M-232-236 - YEAR 2008
PROPOSED MONITORING PLAN

FIGURE
26

Job No.:	Date:	Scale:	Drawn By:	Checked By:
207-002	JAN 2008	AS SHOWN	KAWS	MEM

MCB CAMP LEJEUNE
UST MANAGEMENT PROGRAM
CALENDAR YEAR 2007

NAVFAC
Naval Facilities Engineering Command



LEGEND

Monitoring Wells
- Type I
- Type II
- Type III
- Pumping Well
- Unknown Well Type
- Water Supply Wells
- Above Ground Storage Tank
- Underground Storage Tank
- Railroad Tracks

Walls and Fences
- FENCE
- GATE
- WALL

- Buildings and Structures
- Demolished Structures
- Oil/Water Separators
- Slabs
- Roads
- Driveways
- Parking Lots
- Surface Water Bodies
- Creeks and Streams
- Groundwater Flow Direction

Vegetation Cover
- Forestland
- Scrubland
- Wetland

Airfield Pavement
- HELIPAD
- RAMP
- RUNWAY
- SHLDR_OVERRUN
- TAXIWAY

NOTES

1. CATLIN recommends collecting a soil sample at the proposed location to determine if contaminant levels have attenuated to below the Residential MSCCs.

SOIL

Sample ID	MADEP VPH/EPH
USTNH100-DPT01	YES

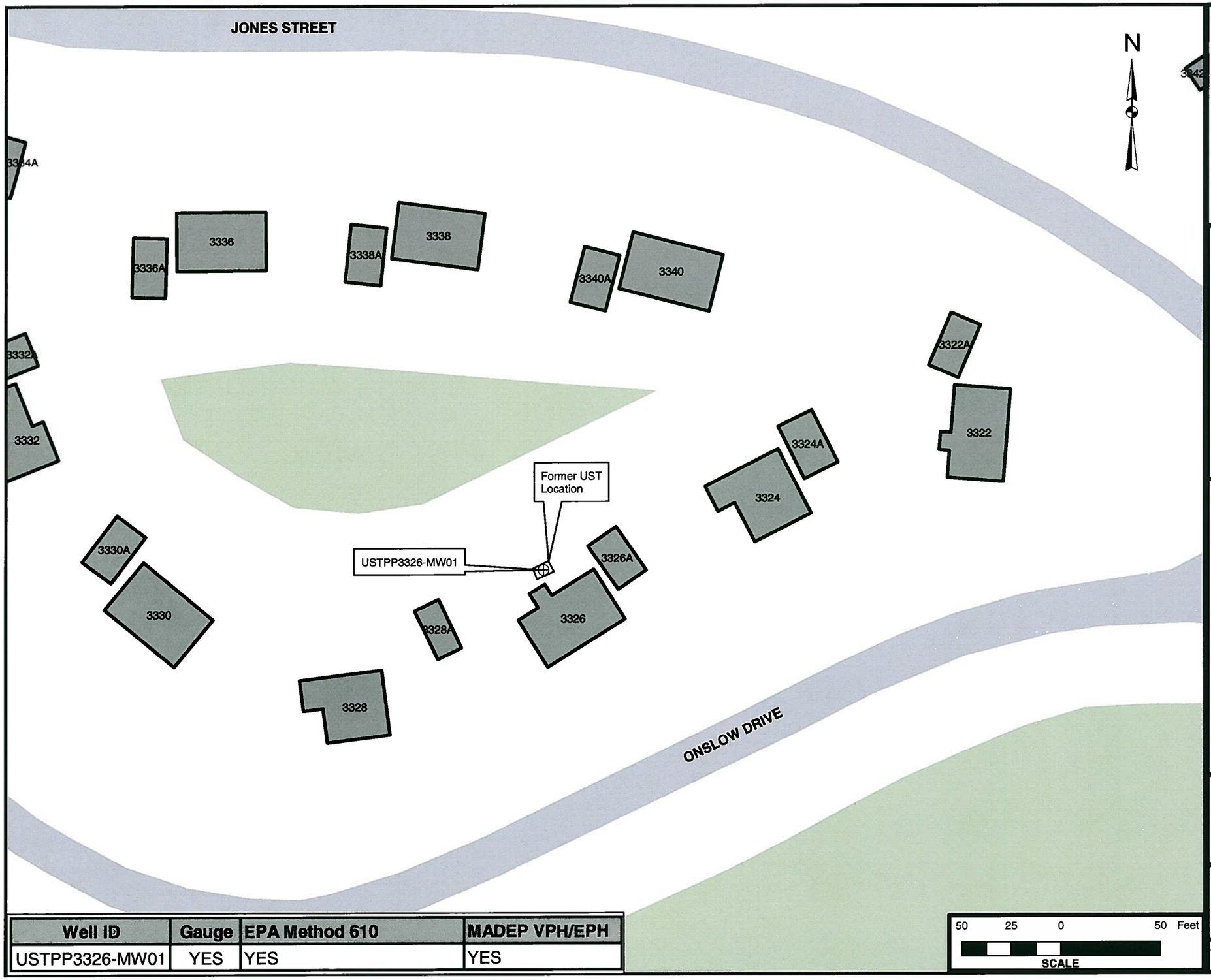
100 50 0 100 Feet
SCALE

CATLIN
Engineers and Scientists

SITE NH-100 - YEAR 2008
PROPOSED MONITORING PLAN

FIGURE
27

Job No.:	Date:	Scale:	Drawn By:	Checked By:
207-002	JAN 2008	AS SHOWN	SAC	MEM



Well ID	Gauge	EPA Method 610	MADEP VPH/EPH
USTPP3326-MW01	YES	YES	YES

50 25 0 50 Feet

SCALE

MCB CAMP LEJEUNE
UST MANAGEMENT PROGRAM
CALENDAR YEAR 2007

NAVFAC
Naval Facilities Engineering Command

LEGEND

- Proposed Well
- Water Supply Wells
- Above Ground Storage Tank
- Underground Storage Tank
- Railroad Tracks

Walls and Fences

- FENCE
- GATE
- WALL

- Buildings and Structures
- Demolished Structures
- Oil/Water Separators
- Slabs
- Roads
- Driveways
- Parking Lots
- Surface Water Bodies
- Creeks and Streams

Vegetation Cover

- Forestland
- Scrubland
- Wetland

Airfield Pavement

- HELIPAD
- RAMP
- RUNWAY
- SHLDR_OVERRUN
- TAXIWAY

NOTES

1. Groundwater sampling in July 2007 conducted by CATLIN. Site should be re-sampled in July 2008.

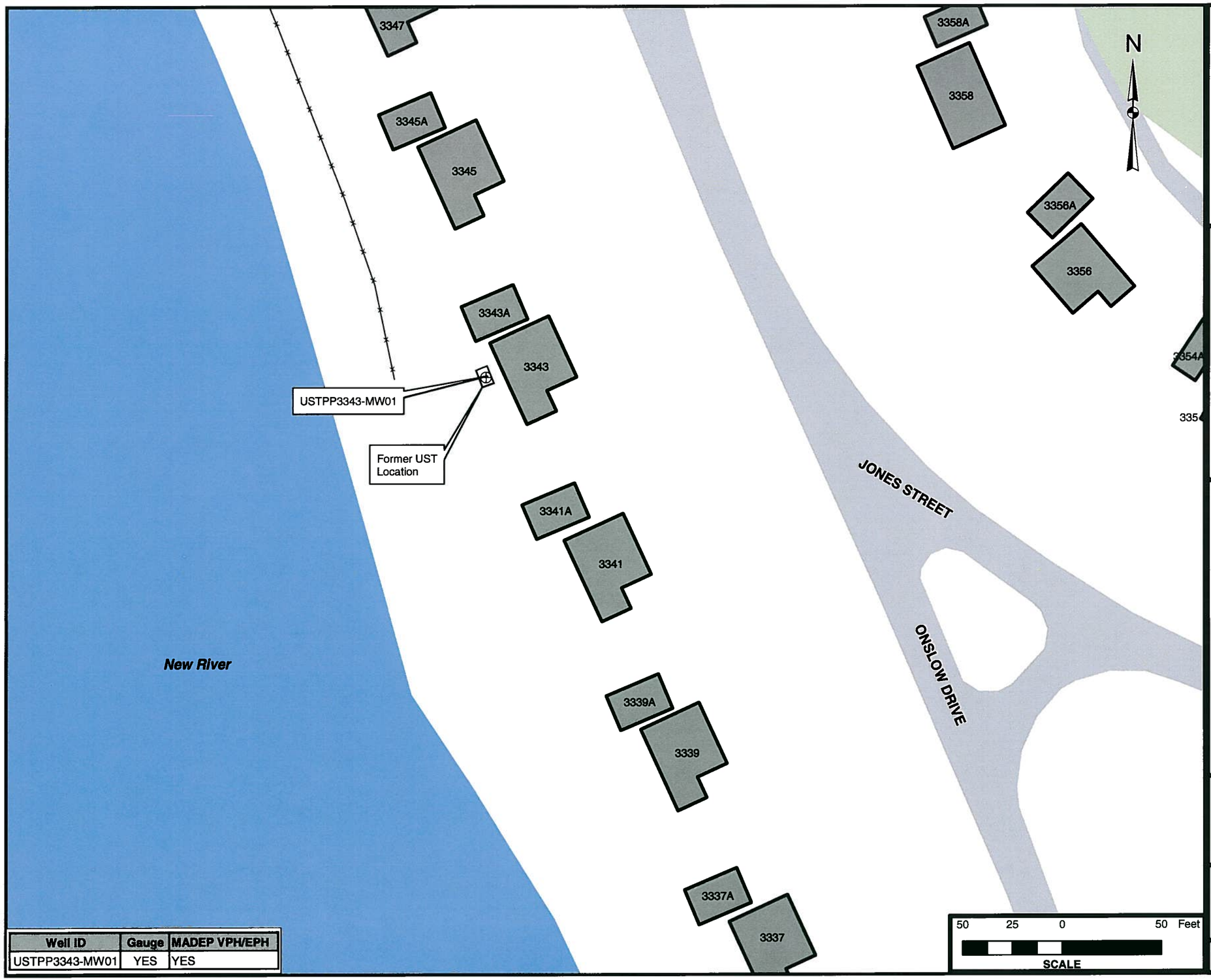
2. CATLIN recommends installing a permananet monitoring well in July 2008 to collect the groundwater samples.

CATLIN
Engineers and Scientists

SITE PP-3326 - YEAR 2008
PROPOSED MONITORING PLAN

FIGURE
30

Job No.:	Date:	Scale:	Drawn By:	Checked By:
207-002	JAN 2008	AS SHOWN	SAC	MEM



Well ID	Gauge	MADEP VPH/EPH
USTPP3343-MW01	YES	YES

MCB CAMP LEJEUNE
UST MANAGEMENT PROGRAM
CALENDAR YEAR 2007

NAVFAC
Naval Facilities Engineering Command

LEGEND

- Proposed Well
- Water Supply Wells
- Above Ground Storage Tank
- Underground Storage Tank
- Railroad Tracks

Walls and Fences
- FENCE
- GATE
- WALL

- Buildings and Structures
- Demolished Structures
- Oil/Water Separators
- Slabs
- Roads
- Driveways
- Parking Lots
- Surface Water Bodies
- Creeks and Streams

Vegetation Cover
- Forestland
- Scrubland
- Wetland

Airfield Pavement
- HELIPAD
- RAMP
- RUNWAY
- SHLDR_OVERRUN
- TAXIWAY

NOTES

1. Groundwater sampling in July 2007 conducted by CATLIN. Site should be re-sampled in July 2008.

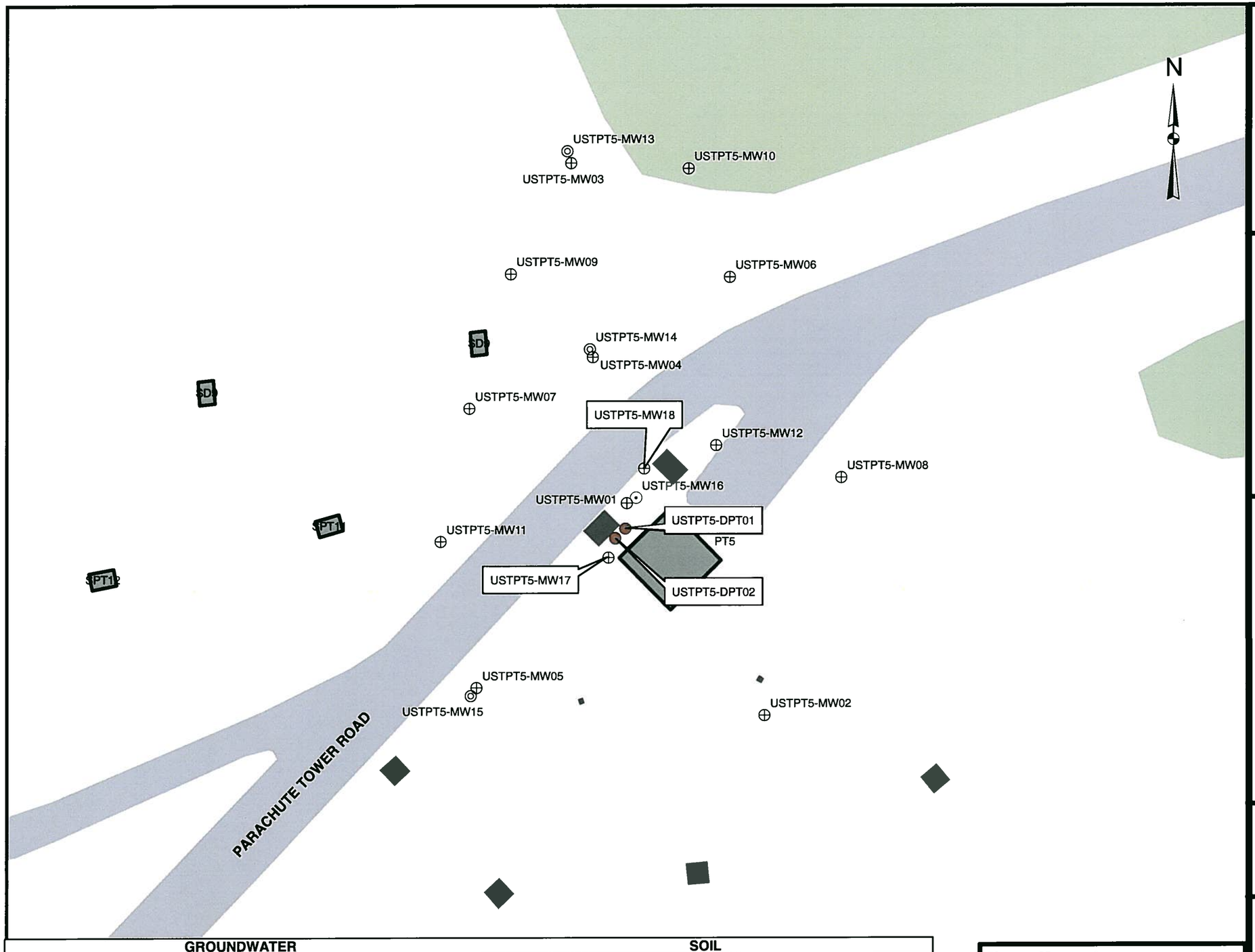
2. CATLIN recommends installing a permananet monitoring well in July 2008 to collect the groundwater samples.

CATLIN
Engineers and Scientists

SITE PP-3343 - YEAR 2008
PROPOSED MONITORING PLAN

FIGURE
34

Job No.:	Date:	Scale:	Drawn By:	Checked By:
207-002	JAN 2008	AS SHOWN	SAC	MEM



MCB CAMP LEJEUNE
UST MANAGEMENT PROGRAM
CALENDAR YEAR 2007

NAVFAC
Naval Facilities Engineering Command

LEGEND

Monitoring Wells
- Type I
- Type II
- Type III
- Pumping Well
- Unknown Well Type

Water Supply Wells
Above Ground Storage Tank
Underground Storage Tank
Railroad Tracks

Walls and Fences
- FENCE
- GATE
- WALL

Buildings and Structures
Demolished Structures
Oil/Water Separators
Slabs
Roads
Driveways
Parking Lots
Surface Water Bodies
Creeks and Streams
Groundwater Flow Direction

Vegetation Cover
- Forestland
- Scrubland
- Wetland

Airfield Pavement
- HELIPAD
- RAMP
- RUNWAY
- SHLDR_OVERRUN
- TAXIWAY

NOTES

1. CATLIN recommends sampling be conducted in July 2008. Results due to CATLIN in EDD format by September 1, 2008.

GROUNDWATER

Well ID	Gauge	EPA 602	EPA 610
USTPT5-MW17	YES	YES	YES
USTPT5-MW18	YES	NO	YES

SOIL

Sample ID	EPA 8260	EPA 8270	MADEP VPH/EPH
USTPT5-DPT01	YES	YES	YES
USTPT5-DPT02	YES	NO	YES

50 25 0 50 Feet
SCALE

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Engineers and Scientists

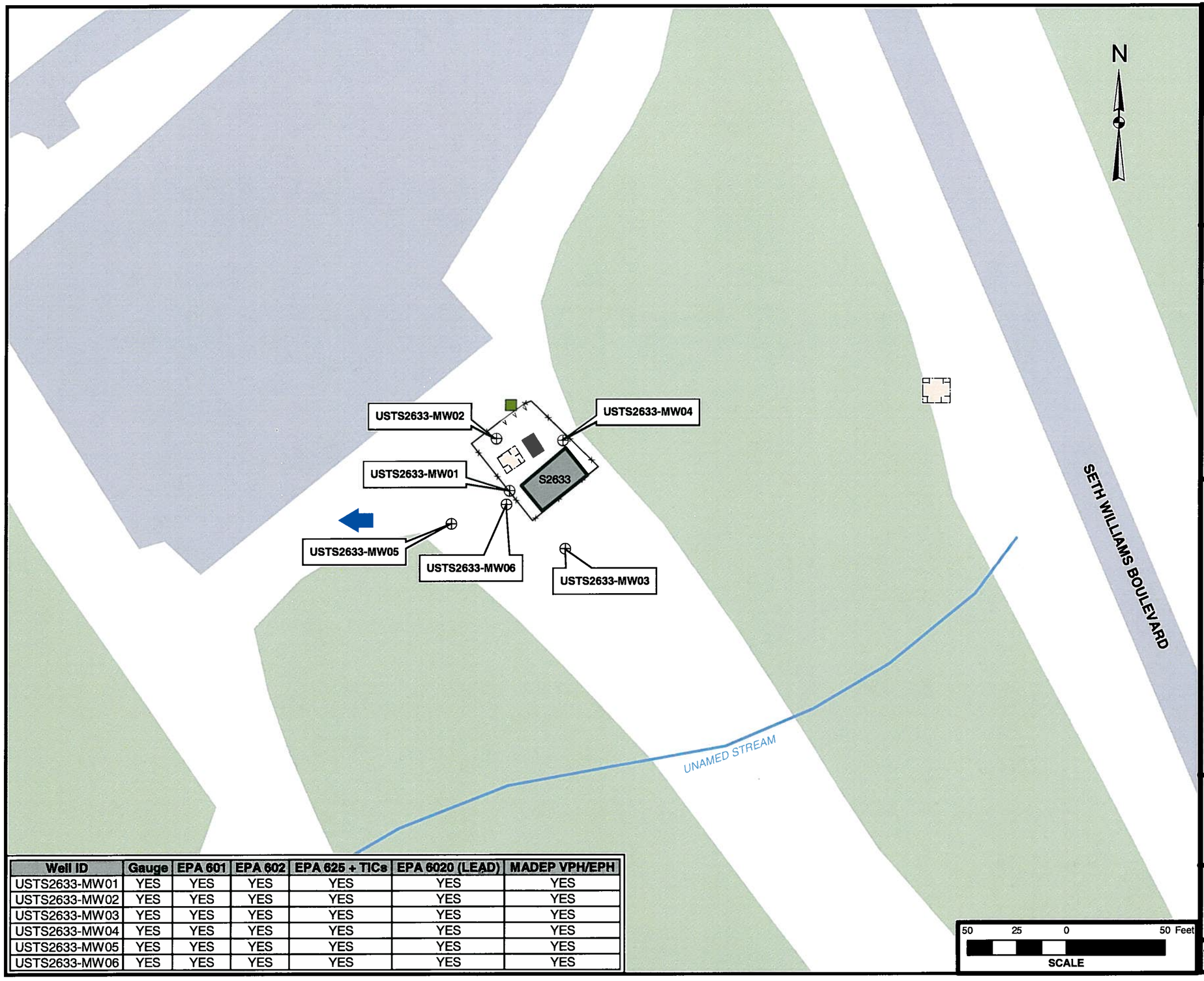
SITE PT- 5 - YEAR 2008
PROPOSED MONITORING PLAN

FIGURE
37

Job No.:	Date:	Scale:	Drawn By:	Checked By:
207-002	JAN 2008	AS SHOWN	SAC	MEM

MCB CAMP LEJEUNE
UST MANAGEMENT PROGRAM
CALENDAR YEAR 2007

NAVFAC
Naval Facilities Engineering Command
ATLANTIC DIVISION



LEGEND

Monitoring Wells
- Type I
- Type II
- Type III
- Pumping Well
- Unknown Well Type
- Water Supply Wells
- Above Ground Storage Tank
- Underground Storage Tank
- Railroad Tracks

Walls and Fences
- FENCE
- GATE
- WALL

- Buildings and Structures
- Demolished Structures
- Oil/Water Separators
- Slabs
- Roads
- Driveways
- Parking Lots
- Surface Water Bodies
- Creeks and Streams
- Groundwater Flow Direction

Vegetation Cover
- Forestland
- Scrubland
- Wetland

Airfield Pavement
- HELIPAD
- RAMP
- RUNWAY
- SHLDR_OVERRUN
- TAXIWAY

NOTES

1. Monitoring currently being conducted by Sovereign. Site should be sampled biennial. Therefore, as the site was sampled in January 2006 the next sampling event should be conducted during the first quarter 2008. Results due to CATLIN in EDD format by May 1, 2008.

Well ID	Gauge	EPA 601	EPA 602	EPA 625 + TICs	EPA 6020 (LEAD)	MADEP VPH/EPH
USTS2633-MW01	YES	YES	YES	YES	YES	YES
USTS2633-MW02	YES	YES	YES	YES	YES	YES
USTS2633-MW03	YES	YES	YES	YES	YES	YES
USTS2633-MW04	YES	YES	YES	YES	YES	YES
USTS2633-MW05	YES	YES	YES	YES	YES	YES
USTS2633-MW06	YES	YES	YES	YES	YES	YES

50 25 0 50 Feet
SCALE

CATLIN
Engineers and Scientists

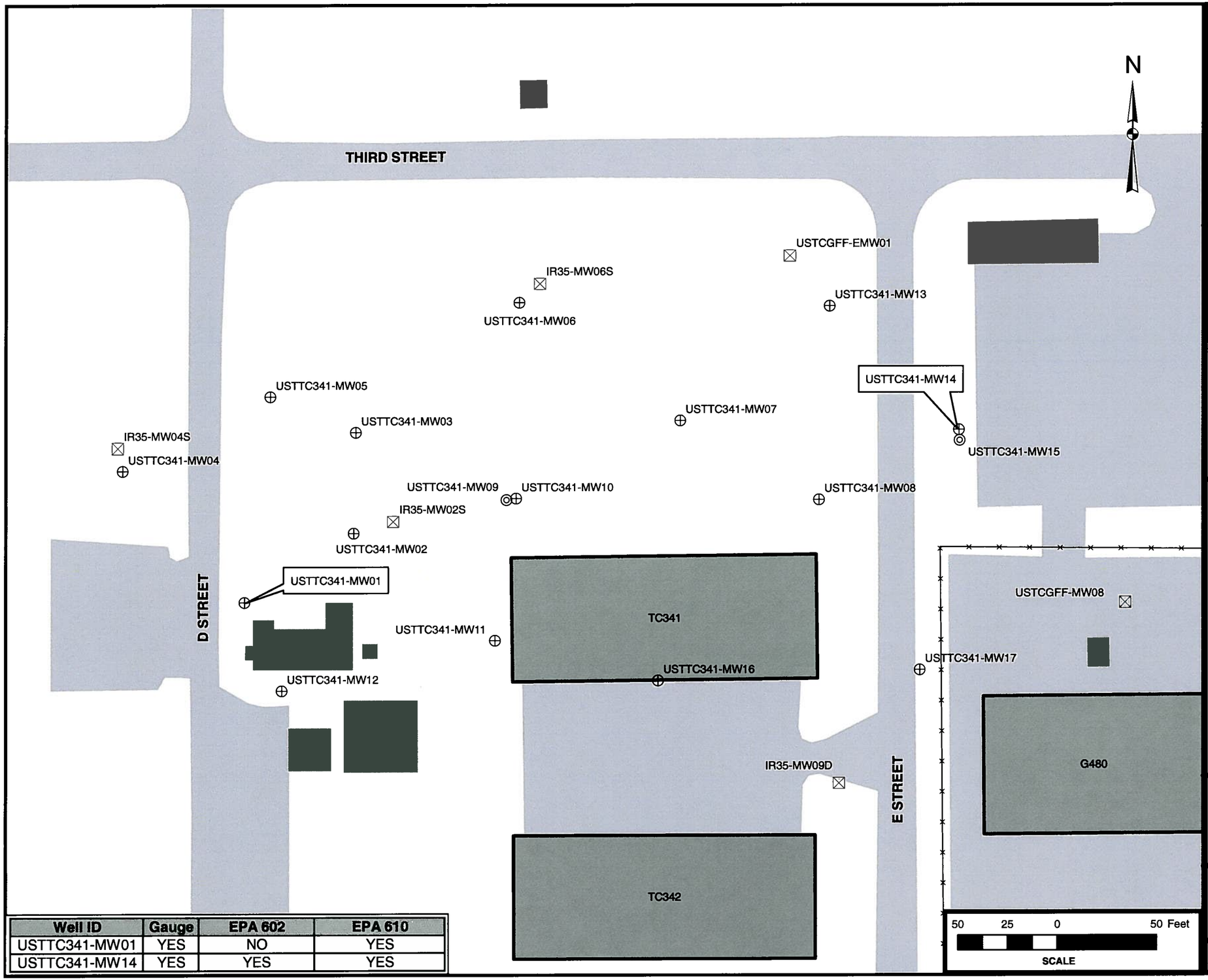
SITE S-2633 - YEAR 2008
PROPOSED MONITORING PLAN

FIGURE
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Job No.:	Date:	Scale:	Drawn By:	Checked By:
207-002	JAN 2008	AS SHOWN	SAC	MEM

MCB CAMP LEJEUNE
UST MANAGEMENT PROGRAM
CALENDAR YEAR 2007

NAVFAC
Naval Facilities Engineering Command



LEGEND

Monitoring Wells
- Type I
- Type II
- Type III
- Pumping Well
- Unknown Well Type
- Water Supply Wells
- Above Ground Storage Tank
- Underground Storage Tank
- Railroad Tracks

Walls and Fences
- FENCE
- GATE
- WALL

- Buildings and Structures
- Demolished Structures
- Oil/Water Separators
- Slabs
- Roads
- Driveways
- Parking Lots
- Surface Water Bodies
- Creeks and Streams
- Groundwater Flow Direction

Vegetation Cover
- Forestland
- Scrubland
- Wetland

Airfield Pavement
- HELIPAD
- RAMP
- RUNWAY
- SHLDR_OVERRUN
- TAXIWAY

NOTES

1. CATLIN recommends sampling be conducted in July 2008. Results due to CATLIN in EDD format by September 1, 2008.

Well ID	Gauge	EPA 602	EPA 610
USTTC341-MW01	YES	NO	YES
USTTC341-MW14	YES	YES	YES

CATLIN
Engineers and Scientists

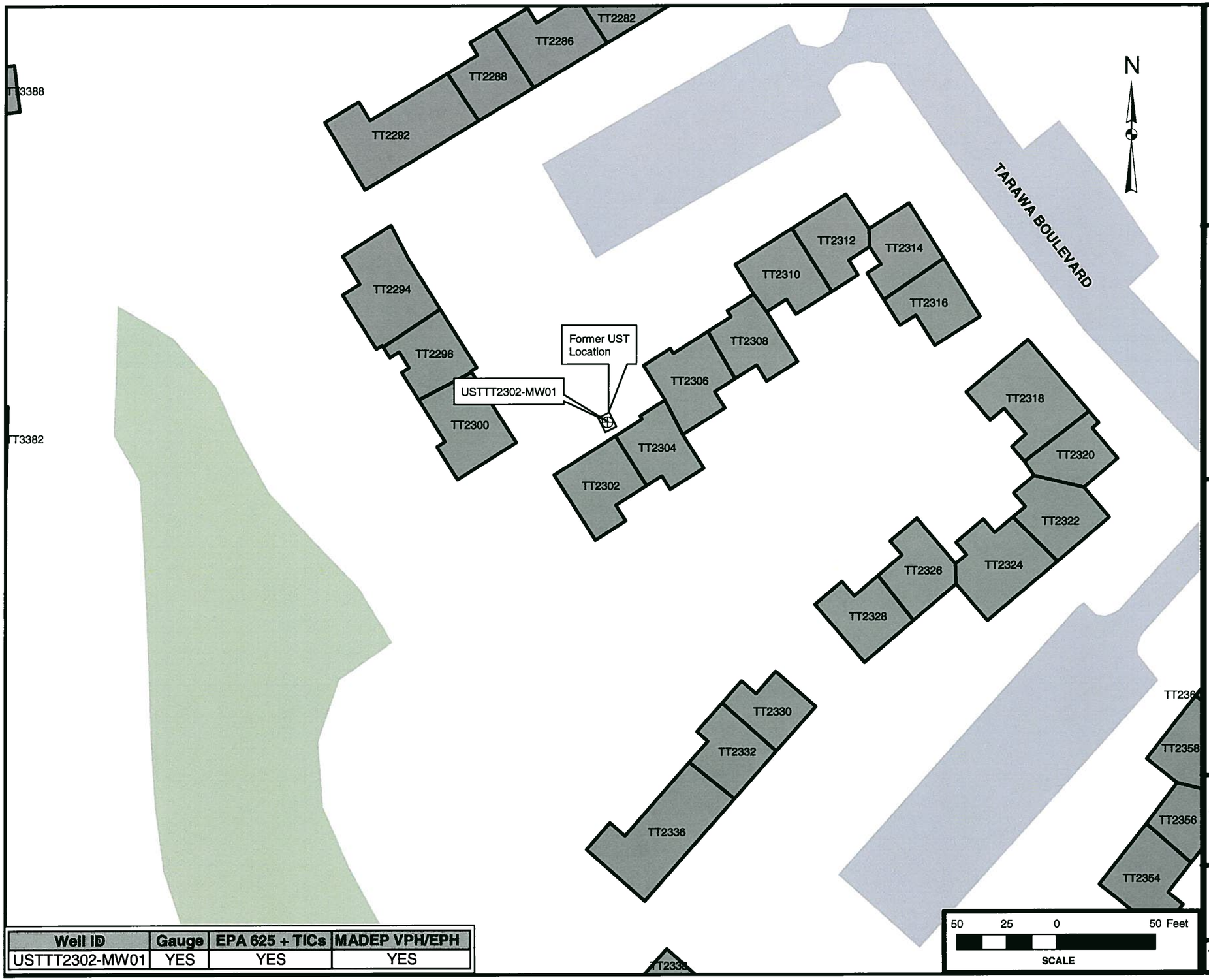
SITE TC-341 - YEAR 2008
PROPOSED MONITORING PLAN

FIGURE
39

Job No.:	Date:	Scale:	Drawn By:	Checked By:
207-002	JAN 2008	AS SHOWN	SAC	MEM

MCB CAMP LEJEUNE
UST MANAGEMENT PROGRAM
CALENDAR YEAR 2007

NAVFAC
Naval Facilities Engineering Command



LEGEND

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Airfield Pavement
- HELIPAD
- RAMP
- RUNWAY
- SHLDR_OVERRUN
- TAXIWAY

NOTES

1. Groundwater at the site has not been sampled for approximately five years. Therefore, CATLIN recommends sampling be conducted in July 2008. Results due to CATLIN in EDD format by September 1, 2008.

2. To CATLIN's knowledge, no monitorng well exists on-site. Therefore, a monitoring well will need to be installed to collect the groundwater sample.

Well ID	Gauge	EPA 625 + TICs	MADEP VPH/EPH
USTTT2302-MW01	YES	YES	YES

CATLIN
Engineers and Scientists

SITE TT-2302 - YEAR 2008
PROPOSED MONITORING PLAN

FIGURE
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Job No.:	Date:	Scale:	Drawn By:	Checked By:
207-002	JAN 2008	AS SHOWN	SAC	MEM