

“NHDES checked the digital file for the garage at the Lakes Region Facility and found that the Leaking Underground Storage Tank (LUST) project was closed in 2013. Groundwater quality in the vicinity of those tanks came into compliance with the Ambient Groundwater Quality Standards (AGQS) for volatile organic compounds (VOCs). Please note that there are a number Recognized Environmental Concerns that were presented in the Phase II Environmental Site Assessment (ESA) report and the assessment chart that was provided to the Committee by NHDES at its meeting on September 14, 2016 at the facility in Laconia. The locations of the wells associated with the closed LUST project are not sufficiently located to address all of those concerns. Also, the analytical work associated with those wells only addressed petroleum contamination. There are no conclusions that can be drawn regarding dissolved metals or polychlorinated biphenyls (PCBs).”

Tim

Timothy W. Drew
Administrator
Public Information and Permitting
Office of the Commissioner
NH Department of Environmental Services
P.O. Box 95
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Concord, NH 03302-0095

Tel. (603) 271-3306
Fax. (603) 271-2867
Cell. (603) 419-0123
Email: Timothy.Drew@des.nh.gov
DES Website: <http://des.nh.gov/>

**DES Waste Management Division
29 Hazen Drive; PO Box 95
Concord, NH 03302-0095**

**July 2013 Data Transmittal
NHDOC Lakes Region Facility Garage
One Right Way Path
Laconia, New Hampshire**

**NHDES SITE #: 199212023
Project Type: LUST
Project No.: 4060**

Prepared For:
Mr. David Clapp
New Hampshire Department of Administrative Services
Bureau of Facilities and Assets Management
129 Pleasant Street
Concord, NH 03301

Prepared By:
Terracon Consultants, Inc.
77 Sundial Avenue, Suite 401W
Manchester, New Hampshire 03103
Phone: (603) 647-9700
Contact: James O'Rourke
Email: jworourke@terracon.com
Terracon Project No. J1077309

**James W.
O'Rourke**
Digitally signed by James W.
O'Rourke
DN: cn=James W. O'Rourke, o=US,
o=Terracon Consultants, Inc.,
email=jworourke@terracon.com
Date: 2013.08.07 14:28:01 -0400

Date of Submittal: August 7, 2013

Offices Nationwide
Employee-Owned

Established in 1965
terracon.com

Terracon

Geotechnical ■ Environmental ■ Construction Materials ■ Facilities

Groundwater Monitoring Report Cover Sheet

Site Name: NH Department of Corrections

Town: Laconia

Permit #: 199212023

Type of Submittal (Check all that apply)

- Periodic Summary Report (year):
- Data Submittal (month and year per Condition #7 of Permit): July 2013

Check each box where the answer to any of the following questions is "YES"

Sampling Results

- During the most recent monitoring event, were any new compounds detected at any sampling point?
Well/Compound:
- Are there any detections of contamination in drinking water that is untreated prior to use?
Well/Compound:
 Do compounds detected exceed AGQS?
- Was free product detected for the first time in any monitoring point?
 Surface Water (*visible sheen*)
 Groundwater (*1/8" or greater thickness*)
Location/Thickness:

Contaminant Trends

- Do sampling results show an increasing concentration trend in any source area monitoring well?
Well/Compound:
- Do sampling results indicate an AGQS violation in any of the GMZ boundary wells?
Well/Compound:

Recommendations

- Does the report include any recommendations requiring DES action? (*Do not check this box if the only recommendation is to continue with existing permit conditions.*)

Recommend site closure (AGQS has been established for two consecutive sampling rounds).

This form is to be completed for groundwater monitoring data submittals and periodic summary reports submitted to the New Hampshire Department of Environmental Services Waste Management Division.



August 7, 2013

New Hampshire Department of Administrative Services
Bureau of Facilities and Assets Management
129 Pleasant Street
Concord, NH 03301

Attn: Mr. David Clapp, Bureau Chief
P: (603) 271-4213
E: David.S.Clapp@dhhs.state.nh.us

RE: July 2013 Data Transmittal
NHDOC Lakes Region Facility Garage
One Right Way Path
Laconia, New Hampshire
DES Project No. 199212023
Terracon Project No. J1077309

Dear Mr. Clapp:

Terracon Consultants, Inc. (Terracon) is pleased to present this data transmittal for the July 2013 groundwater sampling event for the above-referenced site (Exhibit A-1). The work was completed using a Work Scope Authorization Form (WSA) approved by the New Hampshire Department of Environmental Services (NHDES) on July 24, 2013 (see attached).

On July 30, 2013 a Terracon representative collected groundwater from one on-site monitoring well identified as GT-2/MW utilizing low-flow sampling methodology. Field measurements of depth to water and sample characteristics obtained in the field were recorded during the sampling event and are presented on Exhibit D-1. Groundwater samples collected from the monitoring well were placed on ice during transportation under proper chain-of-custody documentation to Aquarian Analytical, Inc. (AAI) of Canterbury, New Hampshire for analysis of volatile organic compounds (VOCs) by the DES Petroleum Remediation Full List of Analytes via U.S EPA Method 8260B in accordance with DES guidelines. Monitoring well locations are illustrated on Exhibit A-2 - Site Diagram.

Laboratory analytical results did not indicate contaminant concentrations above Ambient Groundwater Quality Standards (AGQS) in the groundwater sample collected from the site monitoring well. The groundwater sample was analyzed for VOCs under the DES Petroleum Remediation Full List of Analytes via EPA 8260B (see attached Exhibit A-2).



Terracon Consultants, Inc. 77 Sundial Ave Suite 401W Manchester, NH 03103
P [603] 647 9700 F [603] 647 4432 terracon.com

Geotechnical



Environmental



Construction Materials



Facilities

April 2013 Data Transmittal

NHDOC Lakes Region Facility Garage ■ Laconia, New Hampshire

DES No. 199212023 ■ Terracon Project No. J1077309

July 7, 2013



Review of the site groundwater analytical results reveal that compliance with AGQS has been established for two consecutive sampling rounds (July 2012 and July 2013). It is our opinion that the requirements of Env-Or 609.02 have been met, and, consequently, the subject site is eligible for closure. We recommend site closure activities be undertaken including decommissioning of existing monitoring wells and the issuance of a Certificate of No Further Action by the NHDES

If you have questions, or we can be of further assistance, please contact us. We thank you for this opportunity to be of service to you and we look forward to continuing to work with you on future projects.

Sincerely,

Terracon Consultants, Inc.

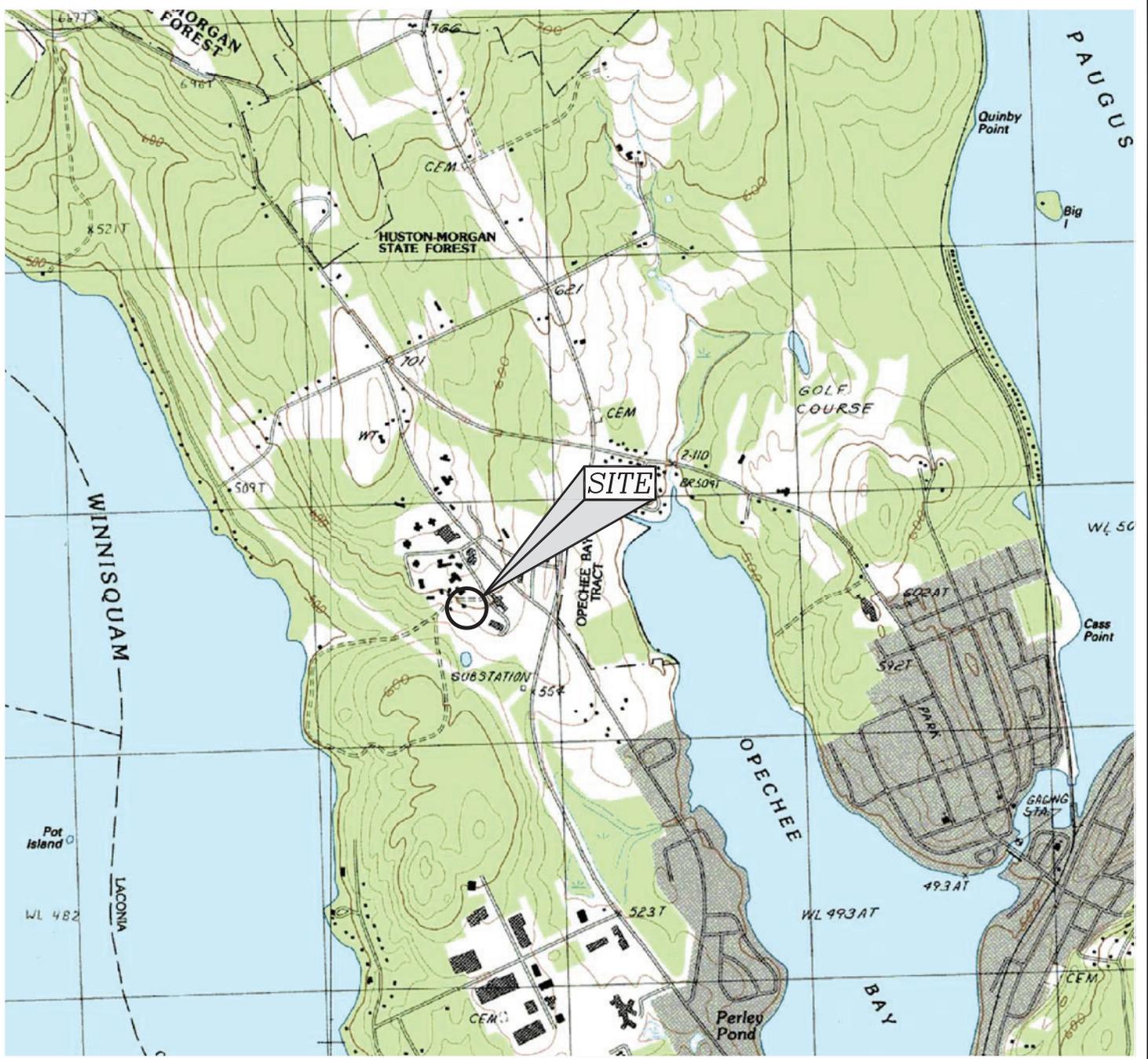
A handwritten signature in blue ink, appearing to read "James O'Rourke". The signature is fluid and cursive.

James W. O'Rourke

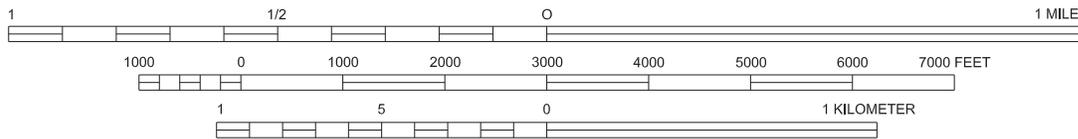
Project Geologist

Attachments: Exhibit A-1 - Site Location Map
Exhibit A-2 - Site Diagram
Exhibit D-1 - Monitoring Well Field Groundwater Measurements (07/30/13)
Exhibit D-2 - Summary of Groundwater Analytical Results (08/13)
NHDES Work Scope Authorization Form (07/24/13)
Aquarian Analytical, Inc. report dated (07/31/13)

cc: DES, via OneStop Upload



SCALE: 1:24 000



CONTOUR INTERVAL 20 FEET
NATIONAL GEODETIC VERTICAL DATUM OF 1929



QUADRANGLE LOCATION

PROJECT: NH DOC LAKES REGION
 FACILITY GARAGE
 LACONIA, NH
PROJECT NO. J1077309
DATE: APRIL 2012
SOURCE: USGS LACONIA, NH
 1987

EXHIBIT A-1
SITE
LOCATION
MAP

Terracon

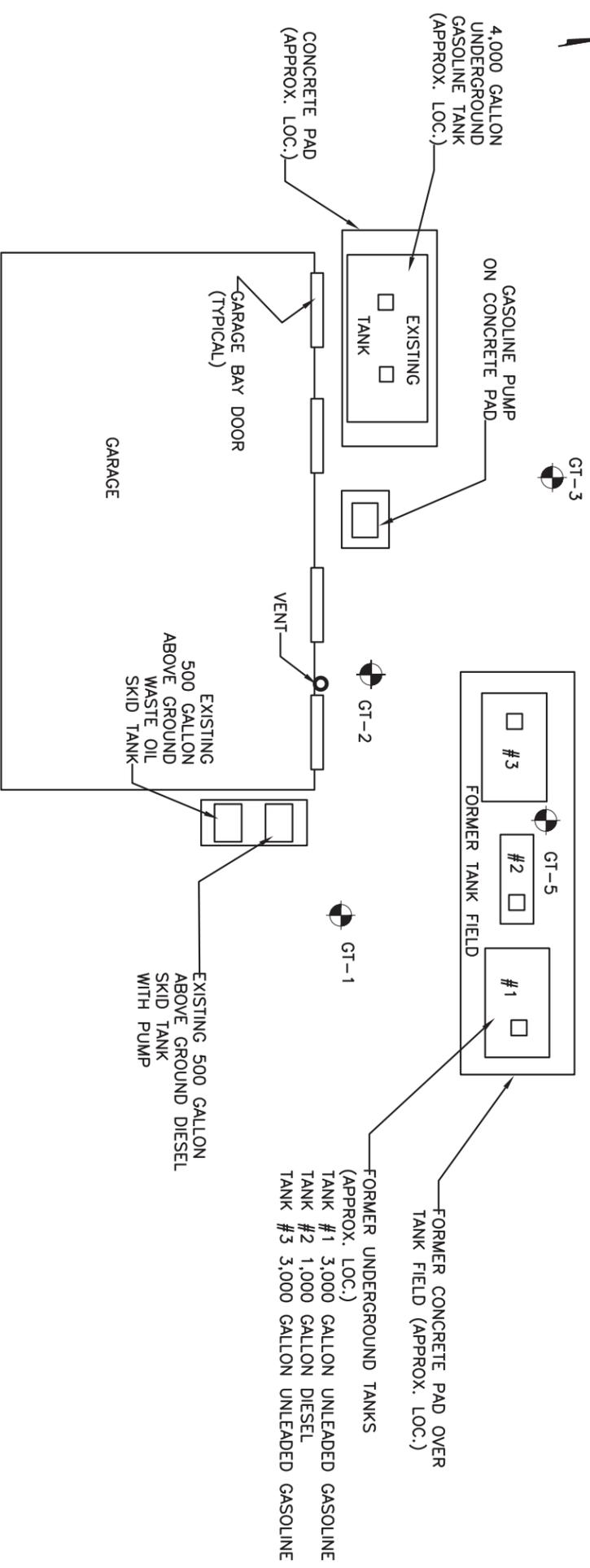
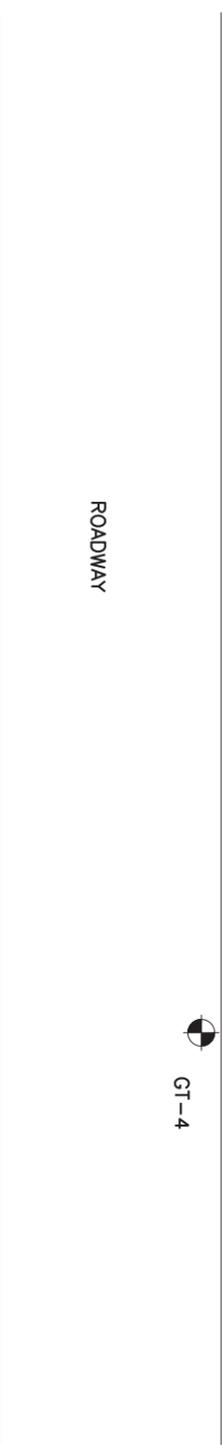
77 Sundial Ave.
Ph. (603)647-9700

Manchester, NH 03103
FAX (603) 647-4432

NOTES:
 1. THIS FIGURE WAS PREPARED FROM A PLAN ENTITLED "WATER TABLE CONTOURS AND PROPOSED GROUNDWATER MANAGEMENT ZONE" DATED 7-28-95, PROVIDED BY GROUNDWATER TECHNOLOGY FROM A BASE MAP ENTITLED "SITE PLAN, LACONIA, DEPT. OF CORRECTIONS."

LEGEND

GT-1 MONITORING WELL LOCATION



**EXHIBIT A-2
 SITE PLAN**

**NH DOC LAKES REGION FACILITY GARAGE
 LACONIA, NH**

PREPARED FOR:
 NH DOT BUREAU OF PUBLIC WORKS
 1 HAZEN DRIVE
 P.O. BOX 483
 CONCORD, NH 03302

DATE: AUGUST 2012
 SCALE: 1" = 20'
 PROJECT NO: J1077309





EXHIBIT D-1

MONITORING WELL
FIELD GROUNDWATER MEASUREMENTS

| | | | |
|--------------|---|----------------|-------------------------------|
| PROJECT: | <u>NHDOC Lakes Region Facility Garage</u> | CLIENT: | <u>Bureau of Public Works</u> |
| | <u>Laconia, New Hampshire</u> | | <u>Concord, New Hampshire</u> |
| PROJECT NO.: | <u>J1077309</u> | WEATHER: | <u>Partly Cloudy 80s</u> |
| DATE: | <u>July 30, 2013</u> | INSTRUMENT(S): | <u>Low-flow sampling kit</u> |
| TECHNICIAN: | <u>Ryan Fredette</u> | | <u>Water-level indicator</u> |

| WELL NO. | WELL ELEV. (ft) | DEPTH OF WELL (ft) | DEPTH TO WTR (ft) | WATER COLUMN (ft) | WATER TABLE ELEV. (ft) | ORP (mV) | DISSOLVED OXYGEN (ppm) | TEMP. (C) | pH | TDS (ppm) | COMMENTS |
|----------|-----------------|--------------------|-------------------|-------------------|------------------------|----------|------------------------|-----------|------|-----------|---|
| GT-2/MW | 99.87 | 10.51 | 6.02 | 4.49 | 93.85 | 118.7 | 0.71 | 22.20 | 5.78 | 201 | Cloudy, no odor. |
| GT-6/MW | 86.77 | NM | NM | NM | NM | NM | NM | NM | NM | NM | Road box destroyed. Well in-filled with gravel. |
| | | | | | | | | | | | |
| | | | | | | | | | | | |

Notes:

TDS - total dissolved solids
mV - millivolts
ppm - parts per million
NM - not measured

ORP - oxidation-reduction potential
ELEV. - elevation
C - Celsius
ft. - feet



EXHIBIT D-2

NHDOC Lakes Region Facility Garage
 Laconia, New Hampshire
 Project No. J1077309

Groundwater Analytical Results
 VOCs in Groundwater (ug/L)

| Well ID | AGQS | Benzene | Toluene | Ethylbenzene | Total Xylenes | MTBE | Naphthalene | n-Butylbenzene | sec-Butylbenzene | tert-Butylbenzene | p-Isopropyltoluene | n-Propylbenzene | 1,2,4-Trimethylbenzene | 1,3,5-Trimethylbenzene |
|----------|----------|---------|---------|--------------|---------------|------|-------------|----------------|------------------|-------------------|--------------------|-----------------|------------------------|------------------------|
| | | 5 | 1,000 | 700 | 10,000 | 13 | 20 | 260 | 260 | 260 | 260 | 260 | 330 | 330 |
| GT-1 | 05/19/93 | <5.0 | <5.0 | 120 | 54 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 06/02/93 | 1.1 | 1.7 | 110 | 44 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 06/29/94 | 0.8 | <1.0 | 130 | 23 | 25 | -- | -- | -- | -- | -- | -- | -- | -- |
| | 05/18/95 | <25 | <25 | 90 | <25 | <50 | <25 | <25 | <25 | <25 | <25 | <25 | 38 | <25 |
| | 11/27/95 | <2 | 2 | 218 | 19 | <2 | -- | -- | -- | -- | -- | -- | -- | -- |
| | 04/30/96 | <2 | <2 | 3 | <2 | <2 | -- | -- | -- | -- | -- | -- | -- | -- |
| | 11/26/96 | <2 | <2 | 170 | <4 | <2 | 10.0 | 5.3 | 3.3 | <2 | <2 | 48 | 13 | 22 |
| | 04/30/97 | <2 | <2 | 2.9 | <4 | <2 | -- | -- | -- | -- | -- | -- | -- | -- |
| | 04/29/98 | <2 | <2 | 7 | <4 | <2 | <4 | <2 | <2 | <2 | <2 | 3 | 9 | 2 |
| | 11/4/98 | <2 | <2 | 45 | <4 | <2 | 8.0 | 5 | 2 | <2 | 2 | 16 | 46 | 19 |
| | 04/21/99 | <2 | <2 | 37 | <4 | <2 | 4.6 | <2 | <2 | <2 | <2 | 11 | 33 | <2 |
| | 11/18/99 | <2 | <2 | 20 | <4 | <2 | 2.4 | <2 | <2 | <2 | <2 | 4.6 | 14 | <2 |
| | 04/28/00 | <2 | 6.6 | 4.3 | 3.7 | <2 | -- | -- | -- | -- | -- | -- | -- | -- |
| | 05/02/01 | <2 | <2 | 28 | <4 | <2 | 11.0 | <2 | <2 | <2 | <2 | 8 | 30 | 5.9 |
| | 04/26/02 | <1 | <1 | <1 | <3 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 |
| | 05/21/04 | <2 | <2 | <2 | <2 | <2 | <2 | <2 | <2 | <2 | <2 | <2 | <2 | <2 |
| | 05/17/07 | <2 | <2 | <2 | <2 | <2 | <4 | <2 | <2 | <2 | <2 | <2 | <2 | <2 |
| 11/28/07 | <2 | <2 | <2 | <2 | <2 | <4 | <2 | <2 | <2 | <2 | <2 | <2 | <2 | |
| GT-2 | 05/19/93 | 11,000 | 5,800 | 2,300 | 5,400 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 06/02/93 | 12,000 | 7,100 | 2,500 | 6,000 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 06/29/94 | 8,800 | 3,200 | 960 | 2,000 | <500 | -- | -- | -- | -- | -- | -- | -- | -- |
| | 05/18/95 | 7,500 | 4,900 | 970 | 1,700 | <500 | <250 | <250 | <250 | <250 | <250 | <250 | <250 | <250 |
| | 11/27/95 | 2,300 | 3,290 | 794 | 2,356 | <80 | -- | -- | -- | -- | -- | -- | -- | -- |
| | 04/30/96 | 997 | 1,400 | 550 | 879 | <40 | -- | -- | -- | -- | -- | -- | -- | -- |
| | 11/26/96 | 580 | 1,500 | 600 | 1890 | <20 | 140 | <20 | <20 | <20 | <20 | 86 | 920 | 310 |
| | 04/30/97 | 220 | 720 | 400 | 740 | <20 | -- | -- | -- | -- | -- | -- | -- | -- |
| | 04/29/98 | 211 | 851 | 476 | 959 | 360 | <160 | <80 | <80 | <80 | <80 | 133 | 605 | 636 |
| | 11/04/98 | 2,390 | 2,390 | 1,190 | 2,947 | <8 | 179 | 52 | 10 | <8 | 32 | 221 | 870 | 924 |
| | 04/21/99 | 79 | 3,000 | 660 | 2,250 | <50 | 170 | <50 | <50 | <50 | <50 | 260 | 870 | 950 |
| | 11/18/99 | 66 | 2,600 | 1,100 | 3,200 | <40 | 140 | <40 | <40 | <40 | <40 | 220 | 850 | <40 |
| | 04/28/00 | 30 | 1,300 | 710 | 680 | <2 | -- | -- | -- | -- | -- | -- | -- | -- |
| | 05/02/01 | 16 | 480 | 480 | 420 | <10 | 66 | <10 | <10 | <10 | <10 | 130 | 760 | 210 |
| | 04/26/02 | <5 | 180 | 160 | 380 | <5 | 22 | 12 | <5 | <5 | <5 | 40 | 210 | 85 |
| | 05/21/04 | 50 | 1,020 | 1,120 | 2,850 | <20 | 118 | <20 | <20 | <20 | <20 | 191 | 1,010 | 312 |
| | 05/17/07 | 10 | 62 | 187 | 221 | <8 | 22 | <8 | <8 | <8 | <8 | 44 | 148 | 57 |



EXHIBIT D-2

NHDOC Lakes Region Facility Garage
 Laconia, New Hampshire
 Project No. J1077309

Groundwater Analytical Results
 VOCs in Groundwater (ug/L)

| Well ID | AGQS | Benzene | Toluene | Ethylbenzene | Total Xylenes | MTBE | Naphthalene | n-Butylbenzene | sec-Butylbenzene | tert-Butylbenzene | p-Isopropyltoluene | n-Propylbenzene | 1,2,4-Trimethylbenzene | 1,3,5-Trimethylbenzene | |
|---------------|--|------------|------------|--------------|---------------|------------|-------------|----------------|------------------|-------------------|--------------------|-----------------|------------------------|------------------------|----|
| | | 5 | 1,000 | 700 | 10,000 | 13 | 20 | 260 | 260 | 260 | 260 | 260 | 330 | 330 | |
| GT-2 cont. | 11/28/07 | <2 | <2 | <2 | <2 | <2 | <4 | <2 | <2 | <2 | <2 | <2 | <2 | <2 | |
| | 10/08/08 | 30 | 289 | 492 | 1,196 | <2 | 52 | 10 | 5 | <2 | 3 | 92 | 359 | 126 | |
| | 06/29/09 | 18 | 475 | 1,430 | 3,279 | <2 | 95 | 16 | 9 | <2 | 4 | 146 | 832 | 233 | |
| | 07/19/10 | 18 | 250 | 970 | 2,070 | <16 | 100 | <40 | <40 | <40 | <40 | 150 | 880 | 240 | |
| | 07/13/11 | 12 | 33 | 490 | 560 | <8 | <40 | <20 | <20 | <20 | <20 | 130 | 560 | 200 | |
| | 07/27/12 | <0.8 | <2 | <2 | <2 | <0.8 | <4 | <2 | <2 | <2 | <2 | <2 | <2 | <2 | <2 |
| | 07/30/13 | <0.8 | <2 | <2 | <2 | <0.8 | <4 | <2 | <2 | <2 | <2 | <2 | <2 | <2 | <2 |
| GT-6 | 06/16/94 | 6.2 | <5.0 | <5.0 | <5.0 | 19 | -- | -- | -- | -- | -- | -- | -- | -- | |
| | 06/29/94 | 0.6 | <1.0 | <1.0 | <2.0 | 35 | -- | -- | -- | -- | -- | -- | -- | -- | |
| | 05/18/95 | <5.0 | <5.0 | <5.0 | <5.0 | <10 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | |
| | 11/27/95 | 31 | <2 | 90 | 64 | <2 | -- | -- | -- | -- | -- | -- | -- | -- | |
| | 04/30/96 | 25 | 34 | 117 | 87 | <4 | -- | -- | -- | -- | -- | -- | -- | -- | |
| | 11/26/96 | 4.5 | 2.5 | 23 | 22.7 | <2 | 7.4 | 2.4 | 4.3 | <2 | <2 | 11 | 120 | <2 | |
| | 04/30/97 | 3.1 | <2 | <2 | <4 | <2 | -- | -- | -- | -- | -- | -- | -- | -- | |
| | 04/29/98 | <2 | <2 | <2 | <4 | <2 | <4 | <2 | <2 | <2 | <2 | <2 | <2 | <2 | |
| | 11/04/98 | <2 | <2 | <2 | <4 | <2 | <4 | <2 | <2 | <2 | <2 | <2 | <2 | <2 | |
| | 04/21/99 | <2 | <2 | <2 | <4 | <2 | <2 | <2 | <2 | <2 | <2 | <2 | <2 | <2 | |
| | 11/18/99 | -- | <2 | <2 | <4 | 2.7 | <2 | <2 | <2 | <2 | <2 | <2 | <2 | <2 | |
| | 04/28/00 | <2 | <2 | <2 | <2 | 50 | -- | -- | -- | -- | -- | -- | -- | -- | |
| | 05/02/01 | <2 | <2 | <2 | <4 | 290 | <4 | <4 | <4 | <4 | <4 | <4 | <4 | <4 | |
| | 04/26/02 | <1 | <1 | <1 | <3 | 6.4 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | |
| | 05/21/04 | <2 | <2 | <2 | <2 | 6.2 | <2 | <2 | <2 | <2 | <2 | <2 | <2 | <2 | |
| | 05/17/07 | <2 | <2 | <2 | <2 | <2 | <4 | <2 | <2 | <2 | <2 | <2 | <2 | <2 | |
| | 11/28/07 | <2 | <2 | <2 | <2 | <2 | <4 | <2 | <2 | <2 | <2 | <2 | <2 | <2 | |
| | 10/08/08 | <2 | <2 | <2 | <2 | <2 | <4 | <2 | <2 | <2 | <2 | <2 | <2 | <2 | |
| | 06/29/09 | <2 | <2 | <2 | <2 | <2 | <4 | <2 | <2 | <2 | <2 | <2 | <2 | <2 | |
| | 07/19/10 | <0.8 | <2 | <2 | <4 | <0.8 | <4 | <2 | <2 | <2 | <2 | <2 | <2 | <2 | |
| 07/13/11 | Well destroyed- filled in with sediment. | | | | | | | | | | | | | | |

Notes:

ug/L - micrograms per liter (parts per billion equivalent).

MTBE - methyl tertiary butyl ether.

AGQS - Ambient Groundwater Quality Standards per New Hampshire Code of Administrative Rules Env-Or 603.03.

-- No data.

| | |
|-------------|--|
| Bold | = exceeds laboratory detection limits |
| Bold | = exceeds applicable GW Quality Standards. |

WORK SCOPE AUTHORIZATION - Odb 407.01



Use this form (s) to obtain pre-approval from NHDES for performing corrective action at sites eligible for the Petroleum Reimbursement Funds under RSA 146-D, E, F or G. Contact NHDES for guidance on use of this form and the need for additional documentation to describe the proposed work, particularly for RSA 146-G work. **NOTE:** You must receive prior approval even if private insurance is initially funding the work. Approval of a work scope by NHDES is *not* an authorization for reimbursement under Odb 404.03.

****REIMBURSEMENT CANNOT BE AUTHORIZED IF A COMPLETE ESTIMATE IS NOT PRE-APPROVED BY NHDES****

| | |
|--|---|
| Facility Name: <u>NH Dept of Corrections</u> Location Address: <u>1 Right Way Path</u> Location Town: <u>Laconia</u> Facility Owner: <u>NH Dept of Corrections</u> Dates of Work: <u>July 2013</u> | NHDES No.: <u>199212023</u> UST/AST Fac. ID#: <u>0113989</u> Project Type: <u>LUST</u> Project Phase: <u>GMP</u> Consultant: <u>Terracon</u> Contractor: _____ |
|--|---|

Task Summary: Prepare WSA

| Description | Unit Basis (1) | Rate (1) | # Units | | Estimated Cost |
|--------------------|----------------|----------|---------|--|-----------------|
| Principal | hour | \$165.00 | 0.5 | | \$82.50 |
| Project Geologist | hour | \$96.00 | 2.5 | | \$240.00 |
| Task total: | | | | | \$322.50 |

Task Summary: Conduct one round of Groundwater Sampling (July) and Data Transmittal (1 well: GT-2/MW).

| Description | Unit Basis (1) | Rate (1) | # Units | | Estimated Cost |
|--------------------------|----------------|----------|---------|--|-------------------|
| Principal | hour | \$165.00 | 0.5 | | \$82.50 |
| Project Geologist | hour | \$96.00 | 4.5 | | \$432.00 |
| Sr Admin | hour | \$70.00 | 2 | | \$140.00 |
| Environmental Technician | hour | \$85.00 | 8 | | \$680.00 |
| Sampling Van | 1/2 day | \$67.30 | 2 | | \$134.60 |
| Water Level Meter | day | \$15.00 | 1 | | \$15.00 |
| Low-Flow Sampling System | day | \$175.00 | 1 | | \$175.00 |
| Task total: | | | | | \$1,659.10 |

Task Summary: Laboratory Analysis for one sampling round (includes estimated markup NTE 15%)
DES Approved 24 HR Turnaround?

| Description | Unit Basis (1) | Rate (1) | # Units | Y/N | Estimated Cost |
|--|----------------|---------------------|---------|-----|---------------------|
| NHDES Full List by 8260B with EDB (via SIM) | Each | \$224.25 | 1 | N | \$224.25 |
| Task total: | | | | | \$224.25 |
| Total All Services: | | | | | \$2,205.85 |

Owner's Representative: [Signature] 7/24/13
 (signature/date)

NHDES Approval: [Signature] 7/24/2013
 (signature/date)

1,797.10 + 322.50
2,119.60

(1) Refer to Section VI of the Guidance Manual for information on applicable unit-based costs and rates. Current rates are published on the ORCB web page in advance of Manual updates.

A report documenting the approved work must be provided to NHDES by: August 15, 2013

Please note the New Hampshire Insurance Department Bulletin regarding strict liability and private insurance coverage:
http://www.nh.gov/insurance/media/bulletins/2011/documents/ins_11_009_ab.pdf



Aquarian Analytical, Inc. **Laboratory Services**

153 West Road
Canterbury, N.H. 03224
Phone - 603-783-9097
www.Aquarianlabs.com



31 July 2013

Mr. Jaime O'Rourke
Terracon
77 Sundial Ave., Suite 401W
Manchester, NH 03103
RE: NH DOC Garage - Laconia, NH

Dear Mr. O'Rourke:

Enclosed are the results of analyses for the following samples, which were received at 12 c.
These samples were brought to the laboratory from the field on ice.

| Laboratory ID | Sample ID | Sample matrix | Date sampled | Date received |
|---------------|----------------|---------------|-----------------|-----------------|
| 1307090-01 | GT-2/MW | Water | 30-Jul-13 14:04 | 30-Jul-13 15:15 |

The results in this report relate only to the submitted samples. Please refer to our website listed above for a list of accredited parameters. If you have any questions concerning this report, please feel free to contact me.

Alan G. Naber
Laboratory Director



Aquarian Analytical, Inc.

Laboratory Services

153 West Road
Canterbury, N.H. 03224
Phone - 603-783-9097

www.Aquarianlabs.com

Terracon
77 Sundial Ave., Suite 401W
Manchester NH, 03103

Project: NH DOC Garage - Laconia, NH
Project Number: J1077309
Project Manager: Mr. Jaime O'Rourke

Reported:
31-Jul-13 14:45

GT-2/MW 1307090-01 (Water)

Sampled: 30-Jul-13

Volatile Organic Compounds by EPA 8260B

| Analyte | CAS Number | Result | Reporting Limit | Units | Analyzed | Notes |
|------------------------------|------------|--------|-----------------|-------|-----------|-------|
| Acetone | 67-64-1 | BD | 50 | ug/L | 30-Jul-13 | |
| Benzene | 71-43-2 | BD | 0.8 | ug/L | 30-Jul-13 | |
| Bromobenzene | 108-86-1 | BD | 2.0 | ug/L | 30-Jul-13 | |
| Bromochloromethane | 74-97-5 | BD | 2.0 | ug/L | 30-Jul-13 | |
| Bromodichloromethane | 75-27-4 | BD | 2.0 | ug/L | 30-Jul-13 | |
| Bromoform | 75-25-2 | BD | 2.0 | ug/L | 30-Jul-13 | |
| Bromomethane | 74-83-9 | BD | 2.0 | ug/L | 30-Jul-13 | |
| Butylbenzene, n- | 104-51-8 | BD | 2.0 | ug/L | 30-Jul-13 | |
| Butylbenzene, sec- | 135-98-8 | BD | 2.0 | ug/L | 30-Jul-13 | |
| Butylbenzene, tert- | 98-06-6 | BD | 2.0 | ug/L | 30-Jul-13 | |
| Carbon disulfide | 75-15-0 | BD | 8.0 | ug/L | 30-Jul-13 | |
| Carbon Tetrachloride | 56-23-5 | BD | 2.0 | ug/L | 30-Jul-13 | |
| Chloroethane | 75-00-3 | BD | 2.0 | ug/L | 30-Jul-13 | |
| Chloromethane | 74-87-3 | BD | 4.0 | ug/L | 30-Jul-13 | |
| Chlorotoluene, 2 | 95-49-8 | BD | 2.0 | ug/L | 30-Jul-13 | |
| Chlorotoluene, 4 | 106-43-4 | BD | 2.0 | ug/L | 30-Jul-13 | |
| Dibromochloromethane | 124-48-1 | BD | 2.0 | ug/L | 30-Jul-13 | |
| Dibromochloropropane | 96-12-8 | BD | 4.0 | ug/L | 30-Jul-13 | |
| Dibromomethane | 74-95-3 | BD | 2.0 | ug/L | 30-Jul-13 | |
| Dichlorobenzene, 1,2- | 95-50-1 | BD | 2.0 | ug/L | 30-Jul-13 | |
| Dichlorobenzene, 1,3- | 541-73-1 | BD | 2.0 | ug/L | 30-Jul-13 | |
| Dichlorobenzene, 1,4- | 106-46-7 | BD | 2.0 | ug/L | 30-Jul-13 | |
| Dichlorodifluoromethane | 75-71-8 | BD | 4.0 | ug/L | 30-Jul-13 | |
| Dichloroethane, 1,1- | 75-34-3 | BD | 2.0 | ug/L | 30-Jul-13 | |
| Dichloroethane, 1,2- | 107-06-2 | BD | 2.0 | ug/L | 30-Jul-13 | |
| Dichloroethylene, 1,1- | 75-35-4 | BD | 2.0 | ug/L | 30-Jul-13 | |
| Dichloroethylene, cis-1,2- | 156-59-2 | BD | 2.0 | ug/L | 30-Jul-13 | |
| Dichloroethylene, trans-1,2- | 156-60-5 | BD | 2.0 | ug/L | 30-Jul-13 | |
| Dichloromethane | 75-09-2 | BD | 4.0 | ug/L | 30-Jul-13 | |
| Dichloropropane, 1,2- | 78-87-5 | BD | 2.0 | ug/L | 30-Jul-13 | |
| Dichloropropane, 1,3- | 142-28-9 | BD | 2.0 | ug/L | 30-Jul-13 | |
| Dichloropropane, 2,2- | 594-20-7 | BD | 6.0 | ug/L | 30-Jul-13 | |
| Dichloropropene, 1,1- | 563-58-6 | BD | 2.0 | ug/L | 30-Jul-13 | |
| Dichloropropene, cis-1,3- | 10061-01-5 | BD | 2.0 | ug/L | 30-Jul-13 | |
| Dichloropropene, trans-1,3- | 10061-02-6 | BD | 2.0 | ug/L | 30-Jul-13 | |
| Diethyl Ether | 60-29-7 | BD | 50 | ug/L | 30-Jul-13 | |
| Diisopropyl Ether | 108-20-3 | BD | 2.0 | ug/L | 30-Jul-13 | |
| Ethylbenzene | 100-41-4 | BD | 2.0 | ug/L | 30-Jul-13 | |
| Ethylene dibromide | 106-93-4 | BD | 2.0 | ug/L | 30-Jul-13 | |
| Ethyl tert-Butyl Ether | 637-92-3 | BD | 2.0 | ug/L | 30-Jul-13 | |



Aquarian Analytical, Inc.

Laboratory Services

153 West Road
Canterbury, N.H. 03224
Phone - 603-783-9097

www.Aquarianlabs.com

Terracon
77 Sundial Ave., Suite 401W
Manchester NH, 03103

Project: NH DOC Garage - Laconia, NH
Project Number: J1077309
Project Manager: Mr. Jaime O'Rourke

Reported:
31-Jul-13 14:45

GT-2/MW 1307090-01 (Water)

Sampled: 30-Jul-13

Volatile Organic Compounds by EPA 8260B

| Analyte | CAS Number | Result | Reporting Limit | Units | Analyzed | Notes |
|--|-------------------|--------|-----------------|-------|-----------|-------|
| Hexachlorobutadiene | 87-68-3 | BD | 4.0 | ug/L | 30-Jul-13 | |
| Isopropylbenzene | 98-82-8 | BD | 2.0 | ug/L | 30-Jul-13 | |
| Isopropyltoluene, p- | 99-87-6 | BD | 2.0 | ug/L | 30-Jul-13 | |
| Methyl Butyl Ketone (2-Hexanone) | 591-78-6 | BD | 50 | ug/L | 30-Jul-13 | |
| Methyl Ethyl Ketone (2-Butanone) | 78-93-3 | BD | 50 | ug/L | 30-Jul-13 | |
| Methyl Isobutyl Ketone | 108-10-1 | BD | 50 | ug/L | 30-Jul-13 | |
| Methyl-tert-Butyl Ether | 1634-04-4 | BD | 0.8 | ug/L | 30-Jul-13 | |
| Monochlorobenzene | 108-90-7 | BD | 2.0 | ug/L | 30-Jul-13 | |
| Naphthalene | 91-20-3 | BD | 4.0 | ug/L | 30-Jul-13 | |
| n-Propylbenzene | 103-65-1 | BD | 2.0 | ug/L | 30-Jul-13 | |
| Styrene | 100-42-5 | BD | 2.0 | ug/L | 30-Jul-13 | |
| tert-Amyl Methyl Ether | 994-05-8 | BD | 4.0 | ug/L | 30-Jul-13 | |
| tert-Butyl alcohol | 75-65-0 | BD | 20 | ug/L | 30-Jul-13 | |
| Tetrachloroethane, 1,1,1,2- | 630-20-6 | BD | 2.0 | ug/L | 30-Jul-13 | |
| Tetrachloroethane, 1,1,2,2- | 79-34-5 | BD | 2.0 | ug/L | 30-Jul-13 | |
| Tetrachloroethylene | 127-18-4 | BD | 2.0 | ug/L | 30-Jul-13 | |
| Tetrahydrofuran | 109-99-9 | BD | 50 | ug/L | 30-Jul-13 | |
| Toluene | 108-88-3 | BD | 2.0 | ug/L | 30-Jul-13 | |
| Trichlorobenzene, 1,2,3- | 87-61-6 | BD | 4.0 | ug/L | 30-Jul-13 | |
| Trichlorobenzene, 1,2,4- | 120-82-1 | BD | 4.0 | ug/L | 30-Jul-13 | |
| Trichlorobenzene, 1,3,5- | 108-70-3 | BD | 4.0 | ug/L | 30-Jul-13 | |
| Trichloroethane, 1,1,1- | 71-55-6 | BD | 2.0 | ug/L | 30-Jul-13 | |
| Trichloroethane, 1,1,2- | 79-00-5 | BD | 2.0 | ug/L | 30-Jul-13 | |
| Trichloroethylene | 79-01-6 | BD | 0.8 | ug/L | 30-Jul-13 | |
| Trichloro 1,1,2-, trifluoro 1,2,2-, ethane | 76-13-1 | BD | 4.0 | ug/L | 30-Jul-13 | |
| Trichlorofluoromethane | 75-69-4 | BD | 4.0 | ug/L | 30-Jul-13 | |
| Trichloromethane | 67-66-3 | BD | 2.0 | ug/L | 30-Jul-13 | |
| Trichloropropane, 1,2,3- | 96-18-4 | BD | 2.0 | ug/L | 30-Jul-13 | |
| Trimethylbenzene, 1,2,4- | 95-63-6 | BD | 2.0 | ug/L | 30-Jul-13 | |
| Trimethylbenzene, 1,3,5- | 108-67-8 | BD | 2.0 | ug/L | 30-Jul-13 | |
| Vinyl chloride | 75-01-4 | BD | 0.8 | ug/L | 30-Jul-13 | |
| Xylenes, m & p- | 108-38-3,106-42-3 | BD | 4.0 | ug/L | 30-Jul-13 | |
| Xylenes, o- | 95-47-6 | BD | 2.0 | ug/L | 30-Jul-13 | |



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www.Aquarianlabs.com

Terracon
77 Sundial Ave., Suite 401W
Manchester NH, 03103

Project: NH DOC Garage - Laconia, NH
Project Number: J1077309
Project Manager: Mr. Jaime O'Rourke

Reported:
31-Jul-13 14:45

Notes and Definitions

BD Analyte result below the laboratory reporting limit

NR Not Reported

Soil sample results reported on a dry weight basis.

The reporting limit is the lowest level at which reliable quantitation has been demonstrated.

Analytes in **bold** are values reported above the reporting limit.



The State of New Hampshire
DEPARTMENT OF ENVIRONMENTAL SERVICES



Thomas S. Burack, Commissioner

September 30, 2013

David Clapp
New Hampshire Department of Administrative Services
Bureau of Facilities and Assets Management
129 Pleasant Street
Concord, NH 03301

CERTIFICATE OF NO FURTHER ACTION

Subject Site: **Laconia** – NH Department of Corrections Facility, 1 Rightway Path
DES Site #199212023, LUST Project #4060

July 2013 Data Transmittal, prepared by Terracon Consultants, Inc.,
dated August 7, 2013 (Activity #199804)

Dear Mr. Clapp:

The New Hampshire Department of Environmental Services (DES) reviewed the subject submittal and other information in our files regarding the referenced site. This information was compared with the criteria for issuance of a Certificate of No Further Action as contained in New Hampshire Code of Administrative Rules Env-Or 600, Contaminated Site Management. These criteria are outlined below:

1. All human health hazards associated with direct exposure to contaminants through dermal contact, ingestion, and inhalation have been eliminated;
2. All necessary activity and use restrictions have been implemented;
3. All sources of groundwater contamination have been eliminated;
4. All on-site and off-site dissolved contamination levels meet groundwater quality criteria as specified in Env-Or 603.01;
5. All recorded release of recordation notices are on file with DES as required by Env-Or 607.09;
6. Any penalties or fines issued under RSA 146-A, RSA 146-C, RSA 147-A, and RSA 485-C have been paid;
7. All invoices associated with DES's recoverable cost pursuant to RSA 146-A, RSA 146-C, RSA 147-A, and RSA 485-C have been paid, have been waived, or payment can be made by direct transfer from the State's petroleum reimbursement fund(s); and,
8. All fees or costs due under RSA 147-F have been paid.

DES Web Site: www.des.nh.gov

P.O. Box 95, 29 Hazen Drive, Concord, New Hampshire 03302-0095

Telephone: (603) 271-3899 Fax: (603) 271-2181 TDD Access: Relay NH 1-800-735-2964

DES has concluded that the conditions at this site meet the above closure criteria. Therefore, in accordance with Env-Or 609.02, DES hereby issues this Certificate of No Further Action for this site. Through issuance of this Certificate of No Further Action, DES certifies that no additional investigation, remedial measures, or groundwater monitoring will be required by DES for this site. Accordingly, DES will remove this site from our active project list and close the regulatory site file.

DES reserves the right, under New Hampshire Code of Administrative Rules Env-Or 600 Contaminated Site Management, to require additional investigations, remedial measures, or groundwater monitoring if further information indicating the need for such work becomes known.

Site Closure Activities

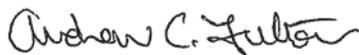
DES strongly recommends that you decommission the inactive groundwater monitoring wells. [Abandoned Well Registration Report](#) forms must be completed and submitted to the New Hampshire Water Well Board and the DES Oil Remediation and Compliance Bureau. Please direct your consultant to submit a work scope and budget for monitoring well decommissioning. Costs shall be broken out on a time and materials basis in the work scope, rather than citing project-based costs. Unit-based costs shall not exceed the rates listed in the Oil Fund Disbursement Board [Guidance Manual: Policies, Procedures & Rules for Reimbursement](#). Please note that if you elect not to decommission the monitoring wells, they must be maintained in accordance with the requirements outlined in Env-Or 610.04 Groundwater Monitoring Wells.

Petroleum Fund Transfer for Cost Recovery

Previously we determined you to be strictly liable for payment of DES costs incurred for management of cleanup of your site. Please be advised that DES is authorized by statute to seek recovery of these costs, and we do so immediately prior to termination of regulatory management or at a change in project status. These costs will be paid directly to DES from the Petroleum Reimbursement Fund Program. If you wish to receive a detailed statement of these costs, please e-mail Ms. Michele Regan, at Michele.Regan@des.nh.gov or call (603) 271-3899, referencing the site name and number above.

Please do not hesitate to contact me if you have any questions regarding this letter.

Sincerely,



Andrew C. Fulton, P.G.
Oil Remediation and Compliance Bureau
Tel: (603) 271-7376
Email: andrew.fulton@des.nh.gov

cc: Sarah Kirn, P.G., ORCB
Laconia Health Officer
James O'Rourke, Terracon

Route/cc: Worthen Muzzey, P.G., ORCB
Gary Lynn, P.E., ORCB