

MAINE DEPARTMENT OF ENVIRONMENT PROTECTION
OIL & HAZARDOUS MATERIALS REPORT

Spill Number: A-80-2003

Report Status: Final Report

MCD Town: THOMASTON
Local Name: THOMASTON
Primary Responder: THOMAS H SMITH
Primary Product: Diesel {29} UNKNOWN
Subject/Owner: DRAGON PRODUCTS - -

I. EVENT

Spill Info

Type Oil Incident {O}
Source Storage Unit - Underground Storage Tank {TU}
Cause Corrosion - Piping {03}

Spill Date/Time

Date and Time Unknown

Reporter Type/Detection Method

Type Subject/Spiller {2}
Method Tank and/or Piping Testing {D}

Reported Date/Time

02/21/2003 13:35

Subject/Owner (Potential Responsible Party)

Contact --DRAGON PRODUCTS
US RT 1
THOMASTON ME 04861 USA
207-594-5555

Comment

Reporter

Contact ANN THAYER--DRAGON PRODUCTS
US RT 1
THOMASTON ME 04861 USA
207-594-5555

Comment

Primary Responder and Other Employees

THOMAS H SMITH (Primary Responder)
DANIEL E DAVIS

No Further Response Action Expected

II. SITE

Location

Location Type Business - Industrial {ID}
Name DRAGON PRODUCTS
Street Address US RT 1
MCD Town THOMASTON
Local Name THOMASTON
State/Province ME

Spill Point

UTM North
UTM East

Wells and Media Affected

Wells Affected 0 Wells Impacted / 0 Wells At Risk
Media Affected Land{L}

Tanks Involved

Underground Tank(s) Involved-5,056.0010.00
Underground Tank(s) Involved-5,056.0011.00

III. CLEANUP**Product Reported**

Diesel {29}

Cleanup DTREE

Baseline One

Products Found/Amount Spilled

Diesel {29}/ UNKNOWN (Primary Product)

Material Recovered

Contaminated Soil {CS} - 450 cu. yds. ESTIMATE

Recovery/Treatment Method

Excavation {G}

Disposal Information

The contaminated soils were transported to Dragon Cement for processing.

IV. NARRATIVE

This spill involved removal of two UST's. The piping leaked during operation. The site is not a sensitive area. 450 yards of oil contaminated soils were excavated and processed on site in the cement kiln. See attached report from St. Germain & Associates for additional specific details.

V. ATTACHMENTS**Attachment Type**

Paper Attach
Electronic Form

Description

Assessment Report from St Germain & Associates
Cleanup DTREE

File Name

Investigator: THOMAS H. SMITH

Date: 10/31/2003 12:00:00AM

Site Name, Address: DRAGON PRODUCTS, US ROUTE 1

Town: THOMASTON, ME

Please circle your response:

	If "Yes" Go To	If "No" Go To	
<u>1.</u> Is a public water supply well located within 2000 feet of the leak or discharge site, or is the site located within wellhead protection recharge zone of a public water supply well?	12	2	<u>N</u>
<u>2.</u> Is the leak or discharge site located in or over a sand and gravel deposit?	2A	3	<u>N</u>
<u>2A.</u> Is the entire area, within a 2000 foot radius of the leak or discharge site, a non-attainment zone ?	2B	12	___
<u>2B.</u> Is there potential for vapor problems within buildings or for a confined space fire or explosion hazard?	13	11A	___
<u>3.</u> Was the release directly into bedrock or is the bedrock groundwater system contaminated?	9	4	<u>N</u>
<u>4.</u> Was the release directly into a glacial till deposit?	9	5	<u>N</u>
<u>5.</u> Was the release into a silt or clay deposit?	6	N/A	<u>Y</u>
<u>6.</u> Is there at least 10 feet of silt and/or clay between the contaminated zone and underlying more permeable surficial deposits (such as glacial till or sand and gravel) or bedrock?	7	9	<u>Y</u>
<u>7.</u> Are the area's gradients approximately horizontal (topographic gradient flat or groundwater gradient <1%)?	8	9	<u>Y</u>
<u>8.</u> Does the seasonal low of the water table fall below the top of the underlying aquifer (sand and gravel deposit or bedrock)? If unknown the answer is yes.	9	10	<u>Y</u>
<u>9.</u> Is the area within 2000 feet downgradient of 1000 feet upgradient served by a public water supply ? (If there are any private wells within this are, answer "No".)	10	12	<u>Y</u>
<u>10.</u> Is there any potential for vapor problems within buildings or for a confined space explosion hazard?	13	11	<u>N</u>
<u>11.</u> Is the entire area, within a 2000 foot radius of the leak or discharge site, a non-attainment zone ?	11A	13	<u>Y</u>
<u>11A.</u> Is the site now or in the past been in a predominantly industrial land use?	14A	14B	<u>Y</u>

Check clean-up goal decided upon:

- 12. Stringent (ST) Clean-up Goals** Ground water clean-up action levels: Dissolved phase ground water contamination action levels are 25 ppb for GRO; 50 ppb DRO; 2 ppb for benzene; and 25 ppb for MTBE. Cleanup Goals: Remove all free product. Remove or remediate contaminated soil containing greater than 10 mg/kg diesel range organics, or 5 mg/kg gasoline range organics as determined by DEP-approved laboratory methods. Remediate groundwater containing greater than 50 ug/l gasoline or diesel range organics, 35 ug/l MTBE, and 5 ug/l benzene measured by DEP approved laboratory methods.
- 13. Intermediate (IN) Clean-Up Goals** Remove all free product. Remove or remediate contaminated soil containing greater than 10 mg/kg diesel range organics, or 5 mg/kg gasoline range organics as determined by DEP-approved laboratory methods.
- X **14A. Baseline-1 (BL1) Goals** Remove all free product. Remove or remediate soil "saturated" with gasoline, kerosene, or fuel oil.
- 14B. Baseline-2 (BL2) Goals** Remove all free product. Remove or remediate contaminated soil to: 500-1,000 ppm gasoline range organics and 200-400 ppm diesel range organics, each as measured by the DEP field headspace analysis or its Department approved equivalent field method.

 Other (Specify): _____ **Complete justification below.**

Note: Where there is significant uncertainty regarding the identity of the product, the lower gasoline or diesel organics' standards shall apply and, in the stringent category, groundwater shall be analyzed for MTBE and benzene.

JUSTIFICATION OF ALTERNATE CLEAN-UP GOAL:

NOTE: This form must be included in the case's Spill Report if completed by Division of Response Services staff. Other Bureau staff must include this documentation in the project file.

**UNDERGROUND STORAGE TANK CLOSURE
ASSESSMENT REPORT**

**DRAGON PRODUCTS CEMENT PLANT
ROUTE ONE
THOMASTON, MAINE**

Prepared for:

**Dragon Products Company, Inc.
P.O. Box 191
Thomaston, Maine 04861**

July 21, 2003



846 Main St., Suite 3
Westbrook, Maine 04092
Telephone 207-591-7000
Facsimile 207-591-7329
info@stgermain.com

July 21, 2003

Ann Thayer
Dragon Products Company, Inc.
P.O. Box 191
Route One
Thomaston, Maine 04861

Re: Underground Storage Tank Closure
Assessment Report
Dragon Products Cement Plant
Thomaston, Maine
St.Germain File No.: 2481.1



Dear Ms. Thayer:

St.Germain & Associates, Inc. (St.Germain) is pleased to provide the following report of the findings of an Underground Storage Tank (UST) Closure Assessment conducted at Dragon Products Cement Plant in Thomaston, Maine (Site).

On June 4, 2003, Bill's Pump and Tank Service removed a 3,000-gallon gasoline UST and a 15,000-gallon diesel UST at the Site. St.Germain was on Site during the UST removals to assess whether any releases of petroleum product had occurred.

Should you have any questions or comments regarding this report, please call us at (207) 591-7000. It has been a pleasure assisting you with your environmental assessment needs.

Sincerely,

ST.GERMAIN & ASSOCIATES, INC.

A handwritten signature in black ink, appearing to read "Scott D. Collins", with a long horizontal line extending to the right.

Scott D. Collins, P.E.

Report attached

INFORMATION SUMMARY SHEET

Facility Name: Dragon Products Cement Plant
Owner: Dragon Products Company, Inc.
Mailing Address: P.O. Box 191
Thomaston, Maine 04861
Facility Operator: Dragon Products Company, Inc.
UST Registration Nos.: 5056-10-1 & 5056-11-1
UST Removal Date: June 4, 2003
Key Findings:
i) Release of petroleum was observed.
ii) MEDEP notified and present during UST and soil removal.
iii) MEDEP clean-up goal for site was met.
iv) No further investigation, or corrective actions are pending.

**Maine Department of
Environmental Protection
On-site Representative:**

Dan Davies

DAVIES

**Maine Registered
Professional Engineer:**

Scott D. Collins

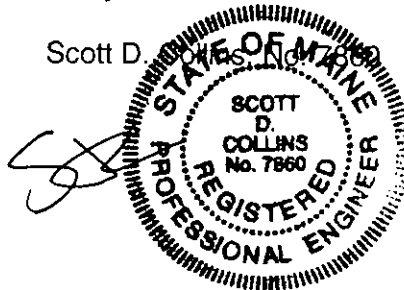


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INTRODUCTION

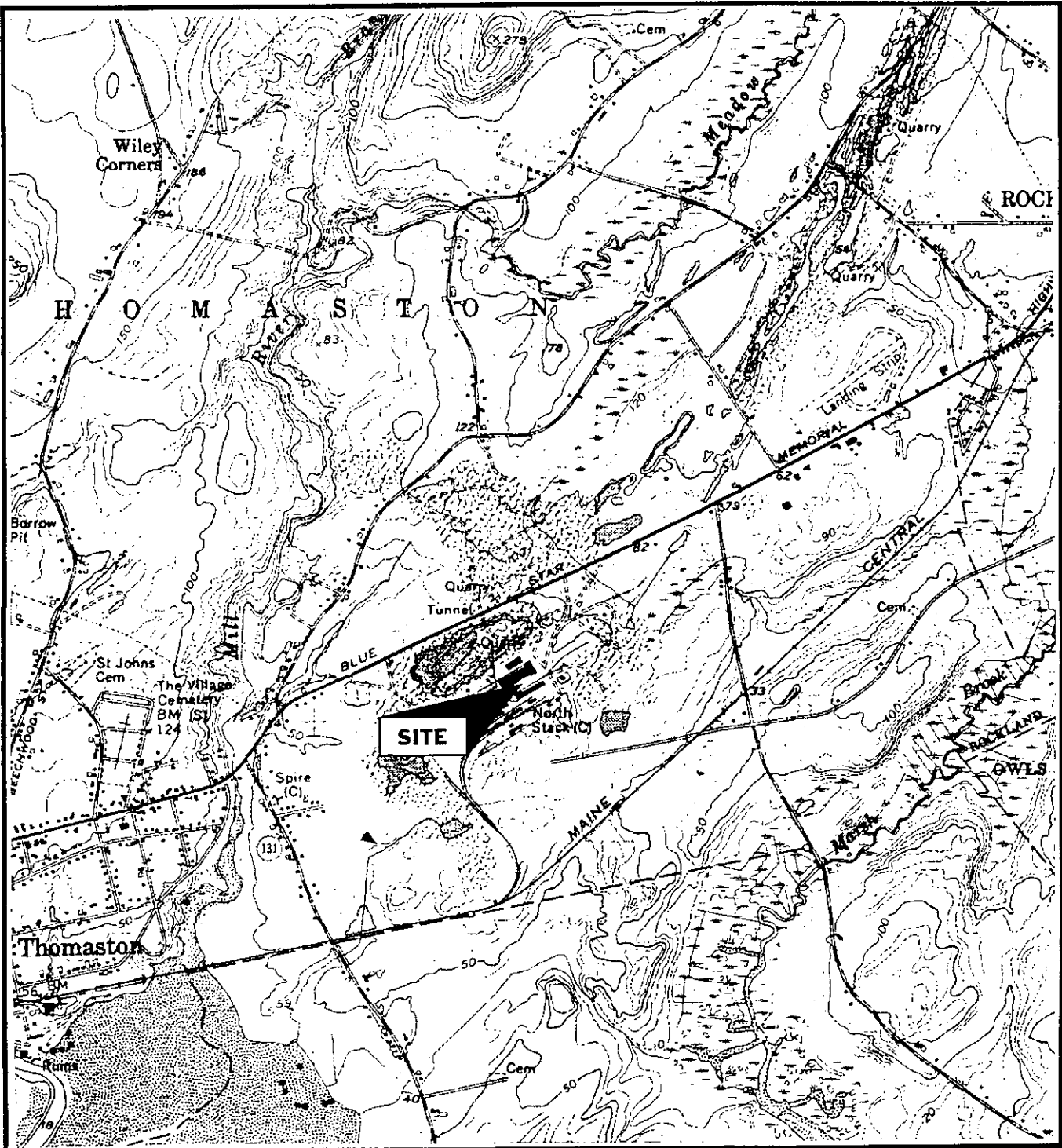
St.Germain & Associates, Inc. (St.Germain) conducted an Underground Storage Tank (UST) Closure Assessment for the Dragon Products Company, Inc. (Dragon) on June 4, 2003 at their cement plant (Site) located on Route One in Thomaston, Maine. The intent of the assessment was to determine whether there was evidence of a release of petroleum, which would require corrective action or notification to the Maine Department of Environmental Protection (MEDEP). The scope of work consisted of the following:

- Observation of the excavation of a 3,000-gallon double-walled steel gasoline UST and a 15,000-gallon double-walled steel diesel UST and all associated piping. The pumps and vent piping had been previously disconnected and removed from their locations.
- Inspection of the USTs for the presence of holes, cracks, petroleum stains or other deficiencies and visual inspection of the excavation for any evidence of a petroleum discharge, in accordance with CMR 06-096, Chapter 691, Appendix P - *Requirements for a Site Assessment at Facility Closure or UST Abandonment*.
- Field screening of soil samples for the presence of photoionizable compounds (PICs) in accordance with CMR 06-096, Chapter 691, Appendix Q - *Field Determination of Soil-Hydrocarbon Content by Jar/Poly Bag Headspace Technique*.
- Interpretation of data collected to determine Site conditions, and any presence or absence of petroleum product in the soil.
- Communicated with a representative of the MEDEP on behalf of Dragon.
- Preparation of this report, in accordance with CMR 06-096, Chapter 691, Appendix P, to include an overview of the work performed, observations, and soil screening results.

SITE DESCRIPTION

The cement plant is located on Route One in Thomaston, Maine (see **Figure 1, Site Location Map**) and is shown on the Town of Thomaston's Tax Assessor's Map 401 as Lot 23. The USTs were located adjacent to each other approximately 100 feet south of the truck garage (see **Figure 2, Site Sketch**).

Consumers Maine Water Company of Rockport provides potable water to the Site. The Maine Geological Survey (MGS) Surficial Geology Map of Maine (1985) indicates that the Site lies within glaciomarine deposits (salt, clay, sand and minor amounts of gravel). The MGS indicates in their Maps and Publications April 2002 booklet, that the Site is not located on a mapped significant sand and gravel aquifer.



SOURCE:

Maptech, Copyright 1997, Thomaston Quadrangle.

SCALE: 1" = 2,000 feet



**FIGURE 1
SITE LOCATION MAP
DRAGON PRODUCTS COMPANY, INC.
ROUTE ONE
THOMASTON, MAINE**

JOB NO.: 2481.1

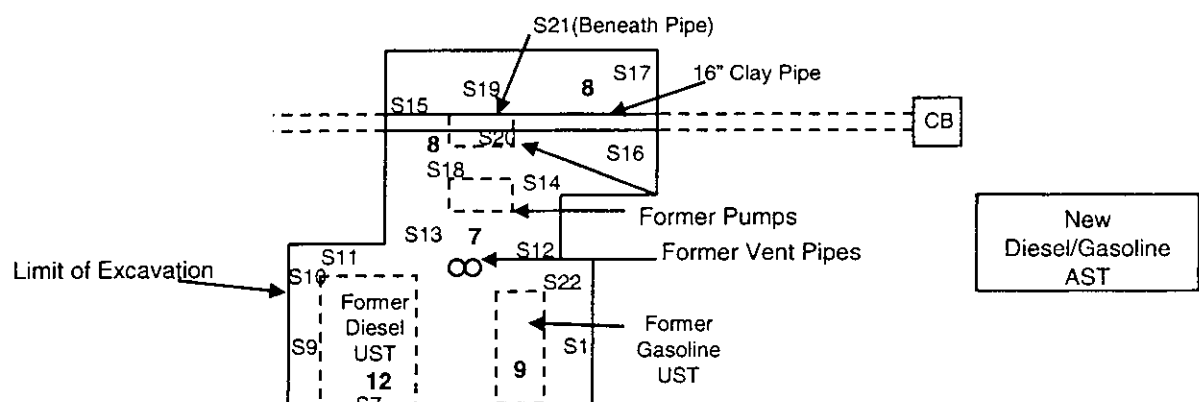
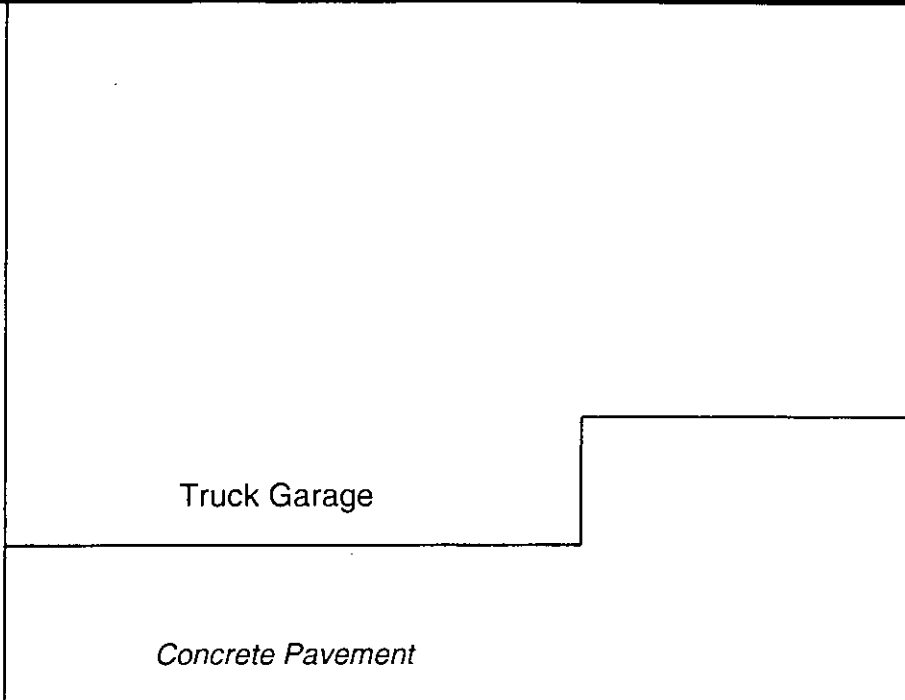
DATE.: 07-03-03

ST. GERMAIN & ASSOCIATES, INC.
846 MAIN STREET, SUITE 3
WESTBROOK, MAINE 04092
(207) 591-7000 WWW.STGERMAIN.COM



**ST. GERMAIN
& ASSOCIATES, INC.**
ENVIRONMENTAL MANAGEMENT

Sample No.	Depth (feet)	Wall/Base	PIC Conc. (ppm)
S1	8	Base	0.5
S2	9	Base	1.7
S3	9	Base	0.3
S4	9	Base	0
S5	14	Base	0
S6	15	Base	0
S7	16	Base	2.3
S8	9	Wall	3.7
S9	9	Wall	0
S10	13	Base	0.3
S11	12	Wall	0.3
S12	7	Base	31
S13	7	Base	543
S14	7	Base	382
S15	4	Wall	742
S16	8	Base	14
S17	8	Base	654
S18	8	Base	64
S19	8	Base	896
S20	8	Base	1087
S21	12	Base	181
S22	9	Base	3.7



Legend

- S1 = Soil Sample
- 12 = Excavation Depth (in Feet)
- UST = Underground Storage Tank
- AST = Above Ground Storage Tank
- CB = Catch Basin
- PIC = Photoionizable Compound

SOURCE:

Based on observations of a St.Germain representative on June 4, 2003.

Not to Scale

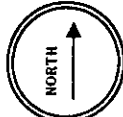


FIGURE 2
Site Sketch
Underground Storage Tank Closure Assessment
Dragon Products Company, Inc.
Thomaston, Maine

JOB NO.: 2481.1

DATE.: 07/02/03

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ST.GERMAIN
& ASSOCIATES, INC.
 ENVIRONMENTAL MANAGEMENT

SITE HISTORY

The USTs were removed subsequent to the installation of a new split 10,000-gallon double-walled steel diesel/gasoline above ground storage tank. Information regarding leak detection monitoring, precision testing, or any tank and piping repairs was not reviewed as part of this assessment. The USTs, which were cathodically protected, were installed in December of 1987. The MEDEP registration numbers for the USTs are 5056-10-1 and 5056-11-1.

OBSERVATIONS

On June 4, 2003, a representative of St.Germain observed the removal of the USTs. Bill's Pump and Tank Service of Union Maine, using an excavator provided by Meklin & Sons of Warren, Maine, supervised the removal of the USTs. St.Germain arrived on Site after the top portion of the USTs and a portion of the soil from around the USTs had been excavated. The ground surface above the UST consisted of concrete pavement. Material underlying and surrounding the tanks consisted of gravel fill and sand. The USTs had direct fill pipes. The vent piping and the product supply piping between the USTs and the pumps comprised double-wall fiberglass.

The USTs (outer walls) were in very good condition. Once removed, the tanks were cleaned by Environmental Projects, Inc, of Gray, Maine. The excavation was extended beneath the USTs and former pump locations to a depth of between 8± and 12± feet below grade (see **Figure 2**). Petroleum stained soil and odors were noted in soils excavated from beneath the former pump locations. No groundwater was observed during the excavation; however, some surface water did pond in the lower elevations of the excavation beneath the UST locations. No petroleum product or sheen was observed on the ponded water.

Dan Davies, with the MEDEP, visited the Site after the USTs and some petroleum-impacted soil had been removed from the excavation. Mr. Davies did not complete a MEDEP Hydrocarbon Spill Decision Tree, but agreed that the clean-up standard for this site was Baseline-1, and as such the clean up goals were i) remove all free product and ii) remove soil saturated with gasoline or diesel. It should be noted that no free product or saturated soil was observed in the excavation. Approximately 450 yards of soil, some of which was not petroleum-impacted was excavated to assess the condition of the soil beneath the former UST and pump locations. This soil was excavated and transported by Dragon to their outside stockpile area near the primary crusher for processing in accordance with MEDEP Processing License #S 2085-WK-A-N. The excavation was backfilled with material (stone tailings, etc.) from the quarry. St.Germain did not observe the backfilling of the excavation.

SOIL SCREENING

Soil samples were collected and screened for PICs to determine the presence or absence of petroleum hydrocarbons. Each soil sample was collected in a quart-size polyethylene bag and field screened for volatiles using the "headspace" method in accordance with MEDEP Chapter 691, Appendix Q, using a Thermo Environmental 580B photoionization detector (PID). The PID was equipped with a 10.6 lamp and was calibrated to a 100-ppm concentration of isobutylene with a set point for the instrument of 255, as recommended by the MEDEP, for gasoline sites.

St.Germain collected twenty-two (22) soil samples from the excavation during and after the removal of the USTs and piping. The PIC concentrations in the samples ranged from 0 ppm to 1,087 ppm. The locations of the soil samples and the PIC concentrations are shown on **Figure 2**. As shown on **Figure 2**, elevated PIC concentrations were only detected in soils beneath the former pumps.

CONCLUDING REMARKS

Based upon the scope of work conducted as part of this UST Closure Assessment, the following conclusions can be made:

- A 3,000-gallon double-walled steel gasoline UST and a 15,000-gallon double-walled steel diesel UST were removed from the Dragon Products cement plant in Thomaston, Maine on June 4, 2003.
- There was evidence of a release of petroleum in the UST excavation; however, the MEDEP clean-up goal was not exceeded. Some soil was removed and processed on Site.
- A MEDEP representative was on-site during soil excavation. No additional investigation or further action has been requested by the MEDEP.

LIMITATIONS

This report was prepared for use by Dragon Products Company, Inc. and may not be used by others without first obtaining written consent from St.Germain. St.Germain shall bear no liability for unauthorized use of information contained in this report. This UST Closure Assessment is limited to the scope of work provided in the Introduction section of this report.

The Concluding Remarks noted in this report are based upon information available to St.Germain at the time of this submittal. Should information not included in this report be obtained, St.Germain reserves the right to amend its Concluding Remarks appropriately.

APPENDIX A

**State of Maine
Department of Environmental Protection**

**Notice of Intent to Abandon (Remove)
an Underground Oil Storage Facility**

State House Station #17
Augusta, Maine 04333-0017
Attention: Tank Removal Notice
Telephone: (207) 287-2651

**NOTICE OF INTENT
TO ABANDON (REMOVE) AN
UNDERGROUND OIL STORAGE FACILITY**

THIS FORM MUST BE FILED WITH THE D.E.P. AND YOUR LOCAL FIRE DEPARTMENT AT LEAST 30 DAYS PRIOR TO THE SCHEDULED REMOVAL.

PLEASE TYPE OR PRINT IN INK:

Name of Facility Owner: CDN-USA
Mailing Address: P.O. Box 191 Telephone #: 207/594-5555
City: THOMASTON State: ME Zip Code: 04861
Contact Person (name, address & telephone #): ANN W. THAYER
U.S. ROUTE 1 P.O. BOX 191 THOMASTON, ME 04861
Name of Facility: DRAGON PRODUCTS CO., INC. Registration #: 5056
Facility Location (town & street): THOMASTON, U.S. ROUTE 1

1. Identify the tanks at this location which are going to be removed:

Tank #	Tank Age	Tank Size (gallons)	Type of Product Stored
1	16 YRS	15,000	DIESEL
2	16 YRS	3,000	UNLEADED GASOLINE
3			
4			

2. Directions to this facility (be specific): ROUTE 17 FROM AUGUSTA TO ROCKLAND. ROUTE 1 ROCKLAND SOUTH TO DRAGON FACILITY. FACILITY IS ON LEFT.

3. Is or was the tank(s) used to store Class I liquids (e.g. gasoline, jet fuel)? Yes No
IF YES, REMOVAL OF THE TANK(S) MUST BE DONE UNDER THE DIRECTION OF A CERTIFIED TANK INSTALLER.

Tank Installer's Name: BILL CARVER Certification Number: 301 Signature: Bill Carver

4. Environmental site assessments are required for all tanks except those used for storing heating oil, not for resale, or for farm or residential motor fuel tanks under 1,100 gallons where the product is used on site. Site Assessor's Name and Address (if applicable):
ST. GERMAIN + ASSOC. 172 U.S. ROUTE 1 SCARBOROUGH, ME 04874

5. Name and telephone number of contractor who will do the tank removal:
BILL CARVER 207/785-4556

6. Expected date of removal (month/day/year): APRIL 30TH, 2003

I hereby provide Notice that I intend to properly abandon the underground oil storage facility as described above.

Date: MARCH 26, 2003 Signature: [Signature]
Printed Name and Title: ERIC GREENE FOR: ANN W. THAYER, ENVIRONMENTAL MANAGER

Mail original and yellow copy to DEP; pink copy to fire department; retain gold copy.
RETURN POSTCARD AFTER TANK(S) HAS BEEN REMOVED