



June 28, 1994

HAZARDOUS MATERIALS
MANAGEMENT DIVISION

JUN 29 11 10 AM '94

Mr. Charles B. Schwer
Acting Section Chief
Vermont Department of
Environmental Conservation
103 South Main Street
Waterbury, Vermont 05676

RE: Otter Creek Bakery, Middlebury, Vermont, Status of Stockpiled Soils
(VDEC Site #92-1326)

Dear Mr. Schwer:

Lincoln Applied Geology, Inc. (LAG) has continued to assist Mr. Ben Wood, owner of The Otter Creek Bakery in Middlebury, in evaluating the reconstructed and polyencapsulated soil stockpile. These formerly contaminated soils were generated as a result of the November 1992 routine business expansion which encountered petroleum contaminated soils. As detailed in our November 20, 1992 letter report to you, these soils were appropriately stockpiled on Mr. Wood's property in Cornwall, Vermont.

In May 1993 the staff of LAG reevaluated the stockpile and found contamination levels remained elevated as assayed by PID. The stockpile was reconstructed and dairy manure added as detailed in our June 15, 1993 status and recommendation letter. The reconstructed stockpile was again polyencapsulated and left until it was sampled this past May 15.

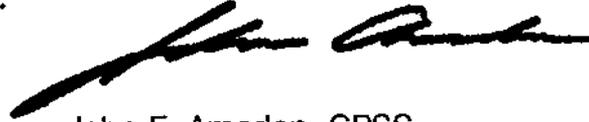
A summary of the recent field measurements and analytical results of two composite samples are presented in **Table 1**. Copies of the formal analytical results are included in **Appendix A**.

It is readily apparent that the petroleum product contamination that originally assayed up to 1200 parts per million (ppm) (Photovac Microtip 10.6 eV PID), has now essentially been completely degraded. As a result, we respectfully request approval to thin spread the soils in the immediate vicinity of where they have been stockpiled. The soils will be graded and seeded to blend with the existing grade.

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We further request a formal SMAC designation for this site. Please feel free to call me with any questions or comments you may have. We look forward to hearing from you or your staff in the near future.

Sincerely,



John F. Amadon, CPSS

JFA/smd
Enclosures
cc: Ben Wood



Lincoln Applied Geology, Inc.
Environmental Consultants

RD # 1 Box 710 • Bristol, Vermont 05443 • (802) 453-4384 • FAX (802) 453-5399

Soil Pile Contaminant Concentration (ppm)

Northside PID						
Hole #	1	2	3	4	5	6
Odor	NO	NO	NO	Manure	NO	NO
0-1 ft	BG	BG	0.2	BG	0.4	0.2
1-2 ft	0.2	0.4	BG	BG	BG	BG
2-3 ft	1.2	1	0.6	0.4	1.4	0.4
Southside PID						
Hole #	1	2	3	4	5	6
Odor	NO	NO	NO	NO	NO	NO
0-1 ft	0.2	BG	BG	BG	BG	BG
1-2 ft	0.4	0.2	BG	1.6	BG	0.2
2-3 ft	1.8	2	BG	2.6	BG	0.6
Composite Analysis (mg/Kg)						
	B	T	E	X	MTBE	TPH
Northside	<0.028	<0.056	<0.028	<0.084	<0.028	3
Southside	<0.027	<0.054	<0.027	<0.081	<0.027	3

Appendix A

May 1994

Analytical Results



LABORATORY ANALYSIS

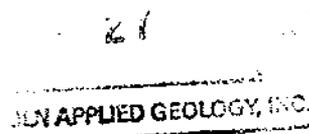
CLIENT NAME:	Lincoln Applied Geology	REF #:	8930
ADDRESS:	RD#1 Box 710 Bristol, VT 05443	PROJECT NO.:	not given
SAMPLE LOCATION:	Otter Creek Bakery	DATE OF SAMPLE:	5/16/94
SAMPLER:	Jim Holman	DATE OF RECEIPT:	5/16/94
		DATE OF ANALYSIS:	5/20/94
ATTENTION:	John Amadon/Steve Larosa	DATE OF REPORT:	5/26/94

Pertaining to the analyses of specimens submitted under the accompanying chain of custody form, please note the following:

- Soil samples submitted for VOC analysis were not preserved.
- Specimens were processed and examined according to the procedures outlined in the specified method.
- Holding times were honored.
- Instruments were appropriately tuned and calibrations were checked with the frequencies required in the specified method.
- Blank contamination was not observed at levels interfering with the analytical results.
- Continuing calibration standards were monitored at intervals indicated in the specified method. The resulting analytical precision and accuracy were determined to be within method QA/QC acceptance limits.
- The efficiency of analyte recovery for individual samples was monitored by the addition of surrogate analytes to all samples, standards, and blanks. Surrogate recoveries were found to be within laboratory QA/QC acceptance limits, unless noted otherwise.

Reviewed by:

Brendan McMahon, Ph.D.
Director, Chemical Services





LABORATORY REPORT

GC/MS METHOD - BTEX (BENZENE, TOLUENE, ETHYLBENZENE, XYLENES) + MTBE

CLIENT NAME:	Lincoln Applied Geology	PROJECT CODE:	not given
PROJECT NAME:	Otter Creek Bakery	REF.#:	8,930
REPORT DATE:	May 26, 1994	STATION:	Northside 0-3' composite
DATE SAMPLED:	May 16, 1994	TIME SAMPLED:	09:30
DATE RECEIVED:	May 16, 1994	SAMPLER:	Jim Holman
ANALYSIS DATE:	May 20, 1994	SAMPLE TYPE:	Soil - 72% dry wt.
		EXTRACTION:	Methanol

PARAMETER	PQL ($\mu\text{g}/\text{Kg}$)	Concentration ($\mu\text{g}/\text{Kg}$ dry wt)
Benzene	28	BPQL
Toluene	56	BPQL
Ethylbenzene	28	BPQL
Xylenes	84	BPQL
MTBE	28	BPQL

Surrogate % Recovery: 98%

BPQL = Below Practical Quantitation Limit (PQL).



LABORATORY REPORT

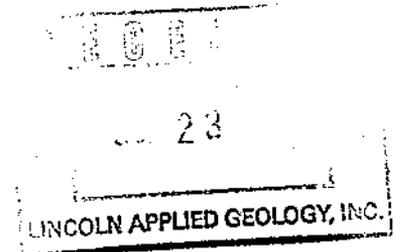
GC/MS METHOD - BTEX (BENZENE, TOLUENE, ETHYLBENZENE, XYLENES) + MTBE

CLIENT NAME:	Lincoln Applied Geology	PROJECT CODE:	not given
PROJECT NAME:	Otter Creek Bakery	REF.#:	8,930
REPORT DATE:	May 26, 1994	STATION:	Southside 0-3' composite
DATE SAMPLED:	May 16, 1994	TIME SAMPLED:	10:00
DATE RECEIVED:	May 16, 1994	SAMPLER:	Jim Holman
ANALYSIS DATE:	May 20, 1994	SAMPLE TYPE:	Soil - 75% dry wt.
		EXTRACTION:	Methanol

PARAMETER	PQL (µg/Kg)	Concentration (µg/Kg dry wt)
Benzene	27	BPQL
Toluene	54	BPQL
Ethylbenzene	27	BPQL
Xylenes	81	BPQL
MTBE	27	BPQL

Surrogate % Recovery: 95%

BPQL = Below Practical Quantitation Limit (PQL).



LABORATORY ANALYSIS

CLIENT NAME: Lincoln Applied Geology MAV CONTROL #: 8930
ADDRESS: RD# 1 Box 710 SAMPLER: Jim Holman
 Bristol, VT 05443 PROJECT MANAGER: Steve Larosa
SAMPLE LOCATION: Otter Creek Bakery

EXAMINATION REQUESTED:

Test - Total Petroleum Hydrocarbons. EPA modified 8015

SPECIMENS:

(4) glass vials containing soil samples Labeled South side composite and northside composite.

FINDINGS:

	North composite	South composite	Units	PQL
TPH	3	3	mg / kg	1

Reviewed by:

Kenneth Somerville
Head Chemist, Chemical Services

