

Electronic Filing: Received, Clerk's Office 04/24/2026
**BEFORE THE POLLUTION CONTROL BOARD
OF THE STATE OF ILLINOIS**

MARTIN & BAYLEY, INC.)	
)	
Petitioner,)	
)	
v.)	PCB 2026-047
)	(LUST Appeal)
ILLINOIS ENVIRONMENTAL)	
PROTECTION AGENCY,)	
Respondent.)	

NOTICE

Don Brown, Clerk
Illinois Pollution Control Board
60 E. Van Buren St., Ste. 630
Chicago, IL 60605
don.brown@illinois.gov


Carol Webb, Hearing Officer
Illinois Pollution Control Board
1021 North Grand Avenue East
P.O. Box 19274
Springfield, IL 62794-9274
carol.webb@illinois.gov

Patrick D. Shaw
Law Office of Patrick D. Shaw
80 Bellerive Road
Springfield, IL 62704
pdshaw1law@gmail.com

PLEASE TAKE NOTICE that I have today filed with the office of the Clerk of the Pollution Control Board the **ADMINISTRATIVE RECORD**, and a **CERTIFICATE OF RECORD ON APPEAL**, copies of which are herewith served upon you.

Respectfully submitted,

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY,
Respondent



Cara Pratt-Fleming
Assistant Counsel - Division of Legal Counsel
Special Assistant Attorney General
2520 West Isles Ave.
P.O. Box 19276
Springfield, Illinois 62794-9276
217/782-5544
866/273-5488 (TDD)
Cara.J.Pratt-Fleming@illinois.gov
Dated: April 24, 2026

**BEFORE THE POLLUTION CONTROL BOARD
OF THE STATE OF ILLINOIS**

MARTIN & BAYLEY, INC.)
)
) Petitioner,)
)
) v.) PCB 2026-047
) (LUST Appeal)
)
 ILLINOIS ENVIRONMENTAL)
 PROTECTION AGENCY,)
)
) Respondent.)

CERTIFICATE OF RECORD ON APPEAL

Pursuant to 35 Ill. Adm. Code 105.116(b) and 105.410, the following constitutes an index of documents comprising the record:

PAGES	DOCUMENT(S)	DATE
AR000001 - AR000003	IEMA Incident Report	December 16, 2009
AR000004 - AR000006	20-Day Certification Letter	December 30, 2009
AR000007 - AR000045	45-Day Report	January 25, 2010
AR000046 - AR000047	IEPA Correspondence	February 4, 2010
AR000048 - AR000189	45-Day Report Addendum	February 10, 2010
AR000190 - AR000197	Lab Reports	February 19, 2010
AR000198 - AR000207	OFSM Eligibility Letter	March 18, 2010
AR000208 - AR000368	Site Investigation Plan	September 16, 2010
AR000369 - AR000374	IEPA Correspondence	October 20, 2010
AR000375 - AR000478	SIP/Budget	July 18, 2013
AR000479 - AR000483	IEPA Correspondence	August 8, 2013
AR000484 - AR000541	SIP/Budget	October 1, 2013
AR000542 - AR000543	IEPA Correspondence	October 23, 2013
AR000544 - AR000667	SICR	June 23, 2014
AR000668 - AR000670	IEPA Correspondence	July 1, 2014
AR000671 - AR000773	CAP/Budget	September 11, 2014
AR000774 - AR000778	IEPA Correspondence	September 26, 2014
AR000779 - AR000794	CAP Amendment	November 17, 2015
AR000795 - AR000796	IEPA Correspondence	March 15, 2016
AR000797 - AR000901	CAP/Budget Amendment	July 8, 2025
AR000902 - AR000905	IEPA Technical Review Notes	October 15, 2025
AR000906 - AR000907	IEPA/CWM Email Re: Extension	November 7, 2025
AR000908 - AR000921	TACO Calculations	January 6, 2026
AR000922 - AR000925	IEPA/CWM Email Correspondence	January 8, 2026
AR000926 - AR000930	IEPA/CWM Email Correspondence	January 9, 2026
AR000931	IEPA/CWM Email Correspondence	January 9, 2026
AR000932 - AR000940	Amended CAP/Budget Response Letter	January 9, 2026

I, Eric Kuhlman, certify on information and belief that the entire record of the Respondent's decision, as defined in 35 Ill. Adm. Code 105.410(b), is hereby enclosed.

By: 

Eric Kuhlman
Leaking Underground Storage Tank Section
Illinois Environmental Protection Agency

Date: 4/23/2026

CERTIFICATE OF SERVICE

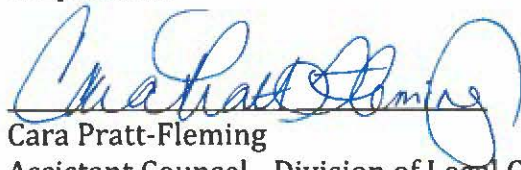
I, the undersigned attorney at law, hereby certify that on **April 24, 2026**, I served true and correct copies of, the **ADMINISTRATIVE RECORD**, and a **CERTIFICATE OF RECORD ON APPEAL**, via the Board's COOL system and email, upon the following named persons:

Don Brown, Clerk
Illinois Pollution Control Board
60 E. Van Buren Street
Suite 630
Chicago, IL 60605
don.brown@illinois.gov

Carol Webb, Hearing Officer
Illinois Pollution Control Board
1021 North Grand Avenue East
P.O. Box 19274
Springfield, IL 62794-9274
carol.webb@illinois.gov

Patrick D. Shaw
Law Office of Patrick D. Shaw
80 Bellerive Road
Springfield, IL 62704
pdshaw1@gmail.com

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY,
Respondent



Cara Pratt-Fleming
Assistant Counsel - Division of Legal Counsel
Special Assistant Attorney General
2520 West Isles Ave.
P.O. Box 19276
Springfield, Illinois 62794-9276
217/782-5544
866/273-5488 (TDD)
Cara.J.Pratt-Fleming@illinois.gov

1930155021-White
Martin & Bailey, Inc.



hurst Tech

Hazardous Materials
Incident Report

Entered by	Paul Kattner	Incident #:	H-2009-1397
Data Input Status:	<input type="radio"/> OPEN	on	12/16/2009 17:18
Leaking Underground Storage Tank (LUST):	<input checked="" type="radio"/> YES		<input type="radio"/> NO

Caller:	Bryan Williams
Call Back #:	618/382-8232
Caller Represents:	Applied Environmental Technologies
Hazmat Incident Type:	Leak or Spill

Incident Location

62827

Street:	109 S. State		
City:	Crossville	State:	IL
Milepost:		County:	White
Section:		Township:	
Area Involved:	Fixed Facility		

Weather Information

Temp (deg F)	34 degrees	Wind Dir/Speed m.p.h	Unknown
--------------	------------	----------------------	---------

Materials Involved

Material Name:	Gasoline
Material Type:	Liquid
CHRIS Code:	Unknown
CAS #:	Unknown
UN/NA#:	Unknown
Is this a 302(a) Extremely Hazardous Substance?	<input type="radio"/> Yes <input type="radio"/> No <input checked="" type="radio"/> Unknown
Is this a RCRA Hazardous Waste?	<input type="radio"/> Yes <input type="radio"/> No <input checked="" type="radio"/> Unknown
Is this a RCRA regulated facility?	<input type="radio"/> Yes <input type="radio"/> No <input checked="" type="radio"/> Unknown
Container Type:	Select or type...
Container Size:	2 x 10000 gallons
Amount Released:	Unknown
Rate of Release/min:	Unknown
Cause of Release:	Unknown

RELEASEABLE

DEC 22 2009

REVIEWER MD

Estimated Spill Extent:	Unknown		
Spill Extent Units:			
Date Occurred:		Time Occurred:	Check if Unknown (Occurrence) <input checked="" type="checkbox"/>
Date Discovered:	12/16/2009	Time Discovered:	07:30 Check if Unknown (Discovered) <input type="checkbox"/>

Number Injured:	0	Where Taken:	N/A
Number Killed:	0		
On Scene Contact:	Bryan Williams	On Scene Phone#:	618/382-8232
Public health risks and/or precautions taken:	None		# Evacuated: None
Assistance needed from State Agencies:	None		
Containment/cleanup actions and plans:	Tanks will be removed and soil remediated		

Responsible Party: Martin & Bailey Inc

Contact Person: Mark Bailey
 Callback Phone Number: 618/382-2334

Street Address: 928 County Rd 1350N

City: Carmi State: IL Zip Code: 62821

Emergency Units Contacted	Contacted	On Scene	Agencies Contacted
ESDA	<input type="checkbox"/>	<input type="checkbox"/>	
Fire	<input type="checkbox"/>	<input type="checkbox"/>	
Police	<input type="checkbox"/>	<input type="checkbox"/>	
Sheriff	<input type="checkbox"/>	<input type="checkbox"/>	
Other	<input type="checkbox"/>	<input type="checkbox"/>	

AGENCIES OR PERSONS NOTIFIED

AGENCY	Date/Time	Name of Person	Notification Action
IEPA, OSFM, NRTP, & IEMA ...	12/16/2009 17:30	E-mailed	Select Action

Narrative:

APPLIED ENVIRONMENTAL TECHNOLOGIES, INC.

1930155021-White
Martin & Bayley, Inc.
Hunt Tech

Bryan K. Williams
Professional Geologist/President

P.O. Box 303
Carmi, IL 62821
Bus. 618-382-8232
Fax 618-382-2462
Home 618-384-3601

December 30, 2009

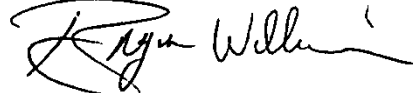
Illinois Environmental Protection Agency
Bureau of Land #24
Leaking Underground Storage Tank Section
1021 North Grand Avenue East
P.O. Box 19276
Springfield, Illinois 62794-9276

RE: Huck's #204, Incident No. H20091410
Maier's Grocery, Incident No. H20091397

Dear Mr./Ms.

Please find enclosed 20-Day Certifications for the two (2) above referenced sites. I order to same time and costs the certifications have been submitted in one (1) envelope. If you have any questions or need additional information please give us a call.

Sincerely,



Bryan Williams
Pres./P.G.

cc. Mr. Mark Bayley

RELEASEABLE
JAN 11 2010
RECEIVED
DEC 30 2009
REVIEWER MD
IEPA/BOL

The Agency is authorized to require this information under Section 4 and Title XVI of the Environmental Protection Act (415 ILCS 5/4, 5/57 - 57.17). Failure to disclose this information may result in a civil penalty of not to exceed \$50,000.00 for the violation and an additional civil penalty of not to exceed \$10,000.00 for each day during which the violation continues (415 ILCS 5/42). Any person who knowingly makes a false material statement or representation in any label, manifest, record, report, permit, or license, or other document filed, maintained or used for the purpose of compliance with Title XVI commits a Class 4 felony. Any second or subsequent offense after conviction hereunder is a Class 3 felony (415 ILCS 5/57.17). This form has been approved by the Forms Management Center.

**Illinois Environmental Protection Agency
Leaking Underground Storage Tank Program
20-Day Certification**

A. Site Identification

IEMA Incident # (6- or 8- digit): H20091397 IEPA LPC # (10- digit): _____

Site Name: Maier's Grocery

Site Address (not a P.O. Box): 109 South State Street

City: Crossville County: White Zip Code: 62827

Leaking UST Technical File

JAN 11 2010

B. Initial Abatement

REVIEWER MD

1. I am/we are the owner and/or operator of the underground storage tank system(s) from which a release was reported under the IEMA incident correctly identified above;
2. As much of the regulated substance as necessary to prevent further release into the environment has been removed;
3. Any aboveground releases or exposed below ground releases have been visually inspected;
4. Further migration of the released substance into surrounding soils and groundwater has been prevented;
5. Monitoring and mitigation of any fire and safety hazards posed by vapors or free product that has migrated from the UST excavation zone and entered subsurface structures (such as sewers or basements) will continue;
6. Hazards posed by contaminated soils that are excavated or exposed as a result of release confirmation, site investigation, abatement, or corrective action activities have been remedied;
7. If the remedies included treatment or disposal of soils, the owner or operator has complied with 35 Ill. Adm. Code 722, 724, 725, and 807 through 815;
8. Measurement for the presence of a release has been conducted where contamination was most likely to be present at the UST site. In selecting sample types, sample locations and measurement methods, the nature of the stored substance, type of backfill, depth to groundwater, and other factors as appropriate for identifying the presence and source of the release have been considered; and
9. An investigation to determine the possible presence of free product has been conducted, and, if applicable, free product removal is being conducted in accordance with 35 Ill. Adm. Code 731.164, 732.203, or 734.215.

RECEIVED

DEC 30 2009

IEPA/BOL

C. Land Trust

- If the release involves one or more USTs that are the subject of a land trust, check here, proceed with completion of Section D, then complete and return the Land Trust Beneficial Interest Disclosure. If a land trust is involved, this and all documents requiring owner or operator

signature must be signed by a beneficiary of the land trust with sufficient beneficial interest to meet the definition of "owner" or "operator" as defined by 35 Ill. Adm. Code 734, 732, or 731.

If a land trust is not involved, proceed with completion of Section D below.

D. Signatures

All plans, budgets, and reports must be signed by the owner or operator and list the owner's or operator's full name, address, and telephone number.

UST Owner or Operator

Name: Martin and Bayley, Inc.
Contact: Mr. Mark Bayley, President
Address: P.O. Box 385
City: Carmi
State: Illinois
Zip Code: 62821
Phone: (618) 382-2334
Signature: *Mark Bayley*
Date: 12/30/09

Consultant

Company: Applied Environmental Tech., Inc.
Contact: Mr. Bryan Williams, P.G.
Address: P.O. Box 303
City: Carmi
State: Illinois
Zip Code: 62821
Phone: (618) 382-8232
Signature: *Bryan Williams*
Date: 12/30/09

I certify under penalty of law that all activities that are the subject of this report were conducted under my supervision or were conducted under the supervision of another Licensed Professional Engineer or Licensed Professional Geologist and reviewed by me; that this report and all attachments were prepared under my supervision; that, to the best of my knowledge and belief, the work described in this report has been completed in accordance with the Environmental Protection Act [415 ILCS 5], 35 Ill. Adm. Code 734, and generally accepted standards and practices of my profession; and that the information presented is accurate and complete. I am aware there are significant penalties for submitting false statements or representations to the Illinois EPA, including but not limited to fines, imprisonment, or both as provided in Sections 44 and 57.17 of the Environmental Protection Act [415 ILCS 5/44 and 57.17].

Licensed Professional Engineer or Geologist

L.P.E. or L.P.G. Seal

Name: Mr. Bryan Williams, P.G.
Company: Applied Environmental Tech., Inc.
Address: P.O. Box 303
City: Carmi
State: Illinois
Zip Code: 62821
Phone: (618) 382-8232
Ill. Registration No.: 196.000366
License Expiration Date: 3/31/2011
Signature: *Bryan Williams*
Date: 12/30/09



RECEIVED
DEC 30 2009
IEPA/BOL

1930155021-White
APPLIED ENVIRONMENTAL TECHNOLOGIES, INC. *Martin & Bayley Inc.*

Bryan K. Williams
Professional Geologist/President

Chert Tech P.O. Box 303
Carmi, IL 62821
Bus. 618-382-8232
Fax 618-382-2462
Home 618-384-3601

January 25, 2010

Illinois Environmental Protection Agency
Bureau of Land #24
Leaking Underground Storage Tank Section
1021 N. Grand Avenue East
P.O. Box 19276
Springfield, IL 62794-9276

RE: I.E.M.A. Incident No. H-20091397
45-Day Report
Maier's Grocery
109 South State Street
Crossville, IL 62827

RECEIVED
JAN 26 2010
IEPA/BOL

To Whom It May Concern:

Please find enclosed the 45-Day Report regarding the above referenced site for your review.

If you have any questions or need any additional information, please advise.

Sincerely yours,



Bryan Williams
Professional Geologist

BKW:cjc
Enclosure

cc: Mr. Mark Bayley, Martin & Bayley, Inc.

RELEASABLE

FEB 04 2010

REVIEWER MD

I.E.M.A. INCIDENT NO. H-20091397

45-DAY REPORT

FOR

MAIER'S GROCERY

109 SOUTH STATE STREET
CROSSVILLE, ILLINOIS 62827

January 20, 2010

RELEASEABLE

FEB 04 2010

REVIEWER MD

RECEIVED

JAN 26 2010

IEPA/BOL

Bryan K. Williams
Professional Geologist/President

P.O. Box 303
Carmi, IL 62821
618-382-8232
Fax 618-382-2462

APPLIED ENVIRONMENTAL TECHNOLOGIES, INC.

The Agency is authorized to require this information under Section 4 and Title XVI of the Environmental Protection Act (415 ILCS 5/4, 5/57 - 57.17). Failure to disclose this information may result in a civil penalty of not to exceed \$50,000.00 for the violation and an additional civil penalty of not to exceed \$10,000.00 for each day during which the violation continues (415 ILCS 5/42). Any person who knowingly makes a false material statement or representation in any label, manifest, record, report, permit, or license, or other document filed, maintained or used for the purpose of compliance with Title XVI commits a Class 4 felony. Any second or subsequent offense after conviction hereunder is a Class 3 felony (415 ILCS 5/57.17). This form has been approved by the Forms Management Center.

**Illinois Environmental Protection Agency
Leaking Underground Storage Tank Program
LUST Technical Form Cover Page**

IEMA Incident #: H-20091397 IEPA LPC# (10-digit) 1930155021
 Site Name Maier's Grocery
 Site Address (Not a P.O. Box): 109 South State Street
 City: Crossville County: White ZIP Code: 61827

Please indicate below the type of plan/report that is being submitted to the Illinois EPA at this time. This form must be attached to all plans and reports submitted to the Illinois EPA pursuant to 35 Ill. Adm. Code 731, 732 and/or 415 ILCS 5/57-57.17. Please check all that apply.

20 Day Certification	_____	
45 Day Report	<u>X</u>	
Free Product Removal Report	_____	
Owner/Operator Summary	_____	
Election to Proceed Under Title XVI	_____	
		Initial Submittal
Site Investigation Plan	_____	_____
Site Investigation Budget	_____	_____
Site Investigation Completion Report	_____	_____
Site Classification Plan	_____	_____
Site Classification Plan Budget	_____	_____
Site Classification Completion Report	_____	_____
Groundwater Monitoring Plan (Low Priority)	_____	_____
Groundwater Monitoring Plan Budget (Low Priority)	_____	RECEIVED
Groundwater Monitoring Results (Low Priority)	_____	JAN 26 2010
Corrective Action Plan	_____	IEPA/BOL
Corrective Action Plan Budget (High Priority)	_____	_____
Corrective Action Completion Report	_____	_____
Professional Engineer Certification (High Priority)	_____	_____
Other (specify) _____	_____	RELEASABLE

FEB 04 2010

I.E.M.A. INCIDENT NO. H-20091397

45-DAY REPORT

FOR

MAIER'S GROCERY

**109 SOUTH STATE STREET
CROSSVILLE, ILLINOIS 62827**

January 20, 2010

Submitted for:

Martin and Bayley, Inc.
P.O. Box 385
Carmi, Illinois 62821
(618) 382-2334

Submitted by:

Applied Environmental
Technologies, Inc.
P.O. Box 303
Carmi, IL 62821
(618) 382-8232

Project No. 1479

RECEIVED
JAN 26 2010
IEPA/BOL

**LEAKING UNDERGROUND STORAGE TANK PROGRAM
45-DAY REPORT
TABLE OF CONTENTS**

<u>Page</u>	<u>Item</u>
1-4	45-Day Report Form
5-11	45-Day Report Additional Information
Exhibit A	
A-1	County Location Map
A-2	Topography Map
A-3	Site Layout
Exhibit B	
B-1	Water Well Report
Exhibit C	
C-1	OSFM Removal Permit
C-2	Analytical Report/Chain of Custody

The Agency is authorized to require this information under Section 4 and Title XVI of the Environmental Protection Act (415 ILCS 5/4, 5/7 - 57.17). Failure to disclose this information may result in a civil penalty of not to exceed \$50,000.00 for the violation and an additional civil penalty of not to exceed \$10,000.00 for each day during which the violation continues (415 ILCS 5/42). Any person who knowingly makes a false material statement or representation in any label, manifest, record, report, permit, or license, or other document filed, maintained or used for the purpose of compliance with Title XVI commits a Class 4 felony. Any second or subsequent offense after conviction hereunder is a Class 3 felony (415 ILCS 5/57.17). This form has been approved by the Forms Management Center.

Illinois Environmental Protection Agency Leaking Underground Storage Tank Program 45-Day Report

A. Site Identification

IEMA Incident # (6- or 8-digit): H-20091397 IEPA LPC# (10-digit): 1930155021
 Site Name: Maier's Grocery
 Site Address (Not a P.O. Box): 109 South State Street
 City: Crossville County: White ZIP Code: 61827
 Leaking UST Technical File

B. Release Information

UST Volume (gallons)	Material Stored in UST	Release Yes / No	Type of Release Tank Leak / Overfill / Piping Leak	Product removed? Yes / No	Tank Status Repaired / Removed / Abandoned / In Use
10,000.0	Gasoline	Yes	Overfill	No	In Use
10,000.0	Gasoline	Yes	Overfill	Yes	Abandoned

RECEIVED
JAN 26 2010

C. Early Action

1. Does this report demonstrate that the most stringent Tier 1 remediation objectives have been met? Yes No
2. Was free product encountered? Yes No
 If yes, the owner or operator must submit a Free Product Removal Report (form LPC 504). If free product removal will be conducted for more than 45 days, a Free Product Removal Plan (and budget, if applicable) must be submitted (form LPC 504).
3. Have any fire or safety hazards posed by vapors or free product or contamination to a potable water supply been identified? Yes No

IEPA/BOL

4. What was the volume of backfill material excavated? 0.0 yds³
5. What was the volume of native soil excavated? 0.0 yds³
6. Was groundwater encountered at the site? Yes No
7. Did the groundwater exhibit a sheen? Yes No

D. Site/Release Information

Provide the following:

1. Data on the nature and estimated quantity of release;
2. Data from available sources or site investigations concerning the following factors:
 - a. Surrounding populations;
 - b. Water quality;
 - c. Use and approximate locations of wells potentially affected by the release;
 - d. Subsurface soil conditions;
 - e. Location of subsurface sewers;
 - f. Climatological conditions; and
 - g. Land use;
3. A discussion of what was done to measure for the presence of a release where contamination was most likely to be present at the UST site;
4. The results of the free product investigations;
5. A discussion of the action taken to prevent further release of the regulated substance into the environment;
6. A discussion of the action taken to monitor and mitigate fire and safety hazards posed by vapors or free product that has migrated from the UST excavation zone and entered subsurface structures; and
7. Any other information collected while performing initial abatement measures pursuant to 35 Ill. Adm. Code 731.162, 732.202(b), or 734.210(b).

E. Other Information

Provide the following:

1. An area map showing the site in relation to surrounding properties;
2. A cross section, to scale, showing the UST(s) and the excavation;
3. Analytical/screening results in tabular format including the results of soil samples required pursuant to 35 Ill. Adm. Code 732.202(h) or 734.210(h) and the most stringent Tier 1 remediation objectives;
4. Site map meeting the requirements of 35 Ill. Adm. Code 732.110(a) or 734.440 and including sample locations;
5. Soil boring logs;

6. Chain of custody forms;
7. Laboratory analytical reports;
8. Laboratory certifications;
9. A copy of the Office of the State Fire Marshal Permit for Removal, Abandonment-in-Place, or other OSFM permits or notifications;
10. A narrative of tank removal and cleaning operations; describe how wastes generated during the tank removal were managed, treated, and disposed of;
11. Photographs of UST removal activities and the excavation; and
12. Copies of manifests for soil and groundwater transported off-site.

F. Early Action Tier 1 Remediation Objectives Compliance Report

If the most stringent Tier 1 remediation objectives of 35 Ill. Adm. Code 742 for the applicable indicator contaminants have been met and a groundwater investigation is not required, in addition to the information provided above, provide the following:

1. Site characterization;
2. If water was encountered in the excavation, provide a demonstration pursuant to 35 Ill. Adm. Code 732.202(h)(4)(C) or 734.210(h)(4)(C) that it is not representative of actual groundwater; and
3. Property Owner Summary (form LPC 568).

G. Signatures

UST Owner or Operator Signature:

All plans, budgets, and reports must be signed by the owner or operator and list the owner's or operator's full name, address, and telephone number.

UST Owner or Operator and Licensed Professional Engineer or Licensed Professional Geologist Certification of Stage 1 Site Investigation Plan and Budget (applies to Part 734 sites continuing beyond early action):

Pursuant to 35 Ill. Adm. Code 734.315(b) and 734.310(b), I certify that the Stage 1 site investigation will be conducted in accordance with 35 Ill. Adm. Code 734.315 and that the costs of the Stage 1 site investigation will not exceed the amounts set forth in 35 Ill. Adm. Code 734.Subpart H, Appendix D, and Appendix E. This certification is intended to meet the requirements for a plan and budget for the Stage 1 site investigation required to be submitted pursuant to 35 Ill. Adm. Code 734.315 and 734.310.

A summary of the actual costs for conducting the Stage 1 site investigation will be submitted concurrently with the results of the Stage 1 site investigation and the Stage 2 site investigation plan and budget.

Continued on next page.

Licensed Professional Engineer or Licensed Professional Geologist Certification:

I certify under penalty of law that all activities that are the subject of this plan, budget, or report were conducted under my supervision or were conducted under the supervision of another Licensed Professional Engineer or Licensed Professional Geologist and reviewed by me; that this plan, budget, or report and all attachments were prepared under my supervision; that, to the best of my knowledge and belief, the work described in this plan, budget, or report has been completed in accordance with the Environmental Protection Act [415 ILCS 5], 35 Ill. Adm. Code 731, 732, or 734, and generally accepted standards and practices of my profession; and that the information presented is accurate and complete. I am aware there are significant penalties for submitting false statements or representations to the Illinois EPA, including but not limited to fines, imprisonment, or both as provided in Sections 44 and 57.17 of the Environmental Protection Act [415 ILCS 5/44 and 57.17].

UST Owner or Operator

Name: Martin & Bayley, Inc.
Contact: Mr. Mark Bayley
Address: P.O. Box 385
City: Carmi
State: IL
ZIP Code: 62821
Phone: (618) 382-2334
Signature: *Mark Bayley*
Date: ~~1/25/10~~ 1/25/10

Consultant

Company: Applied Environmental Tech., Inc.
Contact: Bryan Williams
Address: P.O. Box 303
City: Carmi
State: IL
ZIP Code: 62821
Phone: (618) 382-8232
Signature: *Bryan Williams*
Date: 1/25/10

Licensed Professional Engineer or Geologist

Name: Bryan Williams
Company: Applied Environmental Tech., Inc
Address: P.O. Box 303
City: Carmi
State: IL
ZIP Code: 62821
Phone: (618) 382-8232
Ill. Registration No.: 196.000366
License Expiration Date: 03/31/09
Signature: *Bryan Williams*
Date: 1/25/10

L.P.E. or L.P.G. Seal



RECEIVED
JAN 26 2010

IEPA/BOL

**I.E.M.A. INCIDENT NO. H-20091397
45-DAY REPORT
ADDITIONAL INFORMATION**

D. SITE INFORMATION

1. NATURE AND QUANTITY OF RELEASE:

During a subsurface investigation performed on December 16th, 2009 at Maier's Grocery in Crossville, Illinois, evidence of a release was observed. Odorous and discolored soil was discovered in samples recovered from a boring advanced adjacent to the tank pit. As required by law, the Illinois Emergency Management Agency (IEMA) was notified of the release within the required 24-hour period and the site was assigned Incident Number H-20091397.

Two (2) ten thousand (10,000) gallon gasoline underground storage tanks (UST's) are present at the facility; one (1) tank (#1) is still in use and one (1) tank (#2) has been removed from service. All of the product has been removed from the out of service tank but, due to the presence of holes, groundwater has infiltrated the tank and at least eight (8) feet of water is present in the tank. The tank detection system was checked and there was no evidence of an ongoing release from tank #1. The releases are believed to be the result of spills and overfill of the underground storage tanks and the amount released is unknown. A permit to remove the tanks has been submitted to the Office of the Illinois State Fire Marshal and a copy is included with this 45-Day Report.

2. SITE INVESTIGATION:

a. Surrounding Populations:

The release site is located in Crossville, Illinois (Population: 712; 2000 Census). The setting consists of the Maier's Grocery and service station. Refer to the Site Map in Exhibit A-1 for the location of the site. Refer to the Site Map in Exhibit A-3 for the position of the UST's, pump islands, dispensers and product supply lines. The site is located at 109 South State Street in an area that is both commercial and residential. North of the site is a public self-storage facility as well as the Crossville Fire Department and south of the site is a vacant lot. East of the site are a restaurant and an ATV sales store and west of the site are a private residence and a funeral home. The site borders Main Street (Route 14) to the North and Illinois Route 1 to the east.

b. Water Quality:

The Village of Crossville gets its water from the City of Carmi located southwest of town. The water quality is considered as good.

c. Wells in the vicinity:

Water wells within a one-mile radius of the site recorded with the Illinois State Geological Survey (ISGS) and Illinois State Water Survey (ISWS) have been requested. Copies of the ISGS data and the ISWS data are included in this report. The IEPA Source Water Assessment and Protection Program Database have also been researched. Copies of the SWAP, ISGS and ISWS data are presented in Exhibit B.

d. Subsurface Soil Conditions:

The release was discovered when a soil boring was advanced adjacent to the tank pit that contains the two (2) ten thousand (10,000) gallon gasoline UST's. The boring encountered odorous and discolored greenish-gray silty clay. Please refer to Exhibit C for the analytical results for that soil sample. A subsurface soil investigation will be conducted as part of the Stage I Site Investigation, if necessary.

e. Location of subsurface sewers:

Refer to Exhibit A-3 for a Site Layout Map illustrating the locations of all known utilities in the area of the site. The location of all utilities will be obtained and provided in the 45-Day Addendum.

f. Climatological Conditions:

Climatological conditions at the site have been inconsistent with historical weather patterns for early and mid-winter conditions in southern Illinois. An abnormally high amount of rainfall may contribute to greater than normal levels of groundwater recharge into the tank pit excavation during the UST removal operation.

g. Land Use:

The subject site is located in a commercial/ residential district of Crossville, Illinois. North of the site is a public self-storage facility as well as the Crossville Fire Department and south of the site is a vacant lot. East of the site are a restaurant and an ATV sales store and west of the site are a private residence and a funeral home. The site borders Illinois Route 1 to the east and Main Street (Highway 14) to the north.

INVESTIGATION FOR RELEASE:

Soil discoloration and odorous material were observed in a soil boring advanced adjacent to the tank pit which contains the two (2) 10,000 gallon gasoline UST's. Confirmation samples will be collected, following the removal of the tanks, from the excavation walls and floor, the supply lines and from beneath the dispensers, as required. In addition, any backfill returned to the tank pit will be sampled for the indicator contaminants. The analytical results will be provided in a 45-Day Addendum and a Site Investigation will be performed if the analytical results indicate that the remediation objectives have not been met.

4. FREE PRODUCT INVESTIGATION

If free product be discovered during the tank removal, it will be removed from the excavation immediately. If it is determined that the free-product thickness exceeds one-eighth ($\frac{1}{8}$) of an inch or if an abundance of free product and gas-cut water is observed in the excavation, a Free Product Removal Report will be submitted.

5. PREVENTIVE MEASURES:

Tank leak tests have been performed continuously by the tank monitoring system and the results indicate that there is not an ongoing release. A bailer was lowered into the tank pit observation wells and no product was present. Product has been removed from the abandoned UST at the site in order to prevent any further release to the environment. The underground storage tanks will be removed, cut and cleaned and disposed of in a proper manner and new ten thousand (10,000) gallon tanks will be installed in the tank pits immediately following the removal of the old tanks. An

application for a removal permit has been submitted to the Office of the State Fire Marshal and the removal will be scheduled for the 19th of January, 2009. The permit for the upgrade # 01156-2009UPG, was issued on September 8th, 2009.

6. SUBSURFACE STRUCTURES:

All subsurface structures and utilities will be identified and their location will be presented in the 45-Day Addendum. Overhead lines provide electric service. The water lines, natural gas lines and sewer lines have been located and are included on the site map. Refer to Exhibit A-3 for map illustrating the location the utilities at the site.

E. OTHER INFORMATION

1. Area map of site and surrounding properties:

Refer to Exhibit A-3 for a map of the site and surrounding properties.

2. Cross section of UST excavation:

A cross section of the tank pit will be provided in the 45-Day Addendum.

3. Analytical results:

Analytical results will be provided in the 45-Day Addendum.

4. Site Map with sample locations:

A site map illustrating the sample locations will be provided in the 45-Day Addendum.

5. Soil boring logs:

One boring was advanced adjacent to the tank pit documenting the release. Boring logs will be provided in the Site Investigation Plan, if necessary.

6. Chain of custody forms:

One sample was collected for landfill parameters. A chain of custody form will be provided in the 45-Day Addendum.

7. Laboratory analytical reports:

One sample was obtained for landfill parameters. Laboratory analytical reports will accompany the 45-Day Addendum.

8. Laboratory certifications:

One soil sample was collected from the boring and analyzed for landfill parameters. Laboratory analytical reports will accompany the 45-Day Addendum.

9. OSFM permit for removal:

Refer to Exhibit C for a copy of the removal permit.

10. Narrative of tank removal, cleaning operations, and waste disposal:

A complete narrative of the tank removal, cleaning operations and waste disposal will be submitted in the 45-Day Addendum when the analytical results have been received.

11. Photographs of UST removal operations:

Photographs of the UST removal operation will supplement the 45-Day Addendum.

12. Manifest:

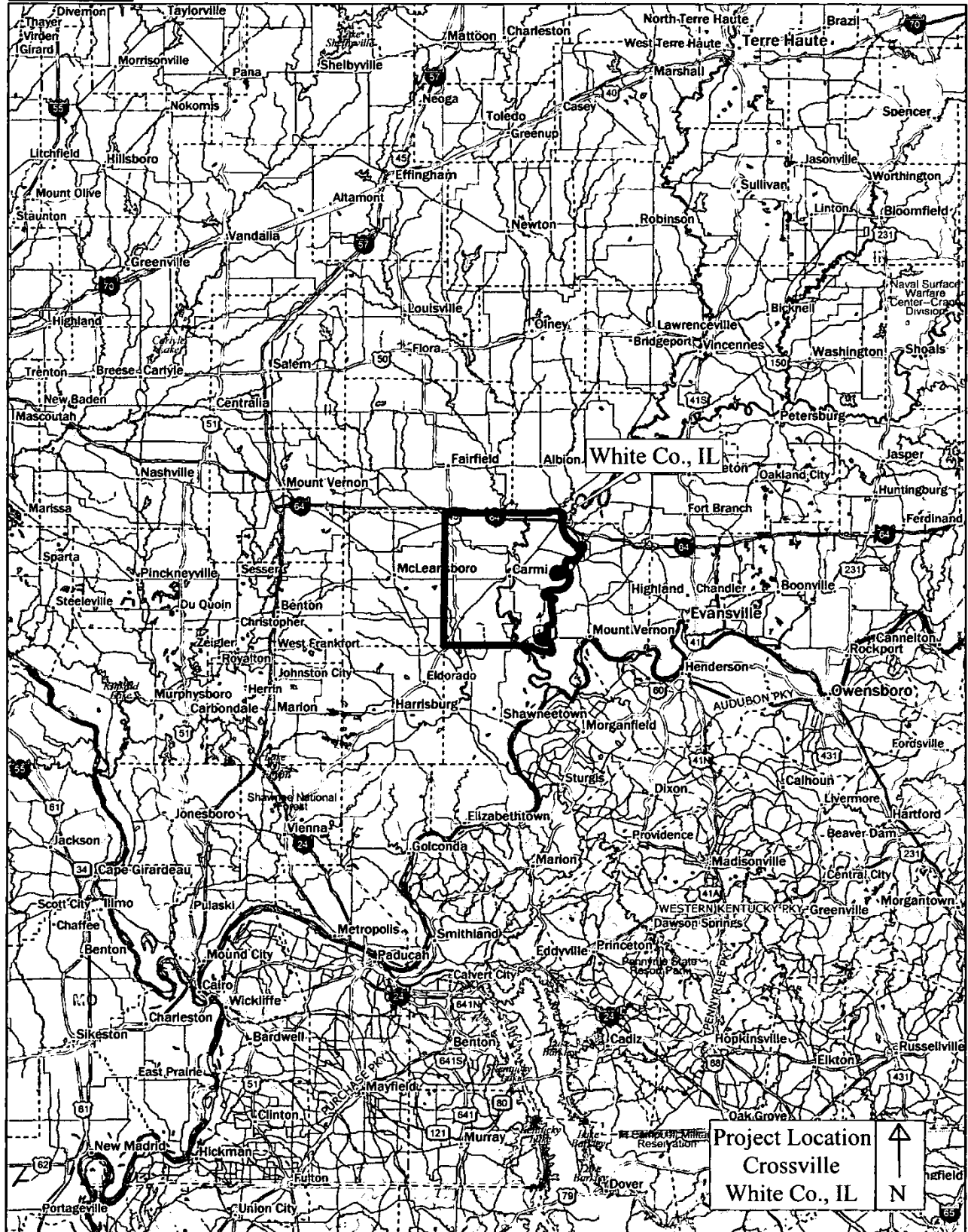
Manifests from disposal of any soil, liquids or tank contents will be provided in the 45-Day Addendum.

F. EARLY ACTION TIER I REMEDIATION OBJECTIVES COMPLIANCE REPORT:

Following receipt of the analytical results, a determination will be made concerning the compliance with TACO Tier I Remediation Objectives. This information will be provided in the 45-Day Addendum.

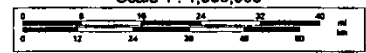


Exhibit A



Project Location
 Crossville
 White Co., IL

Scale 1 : 1,500,000

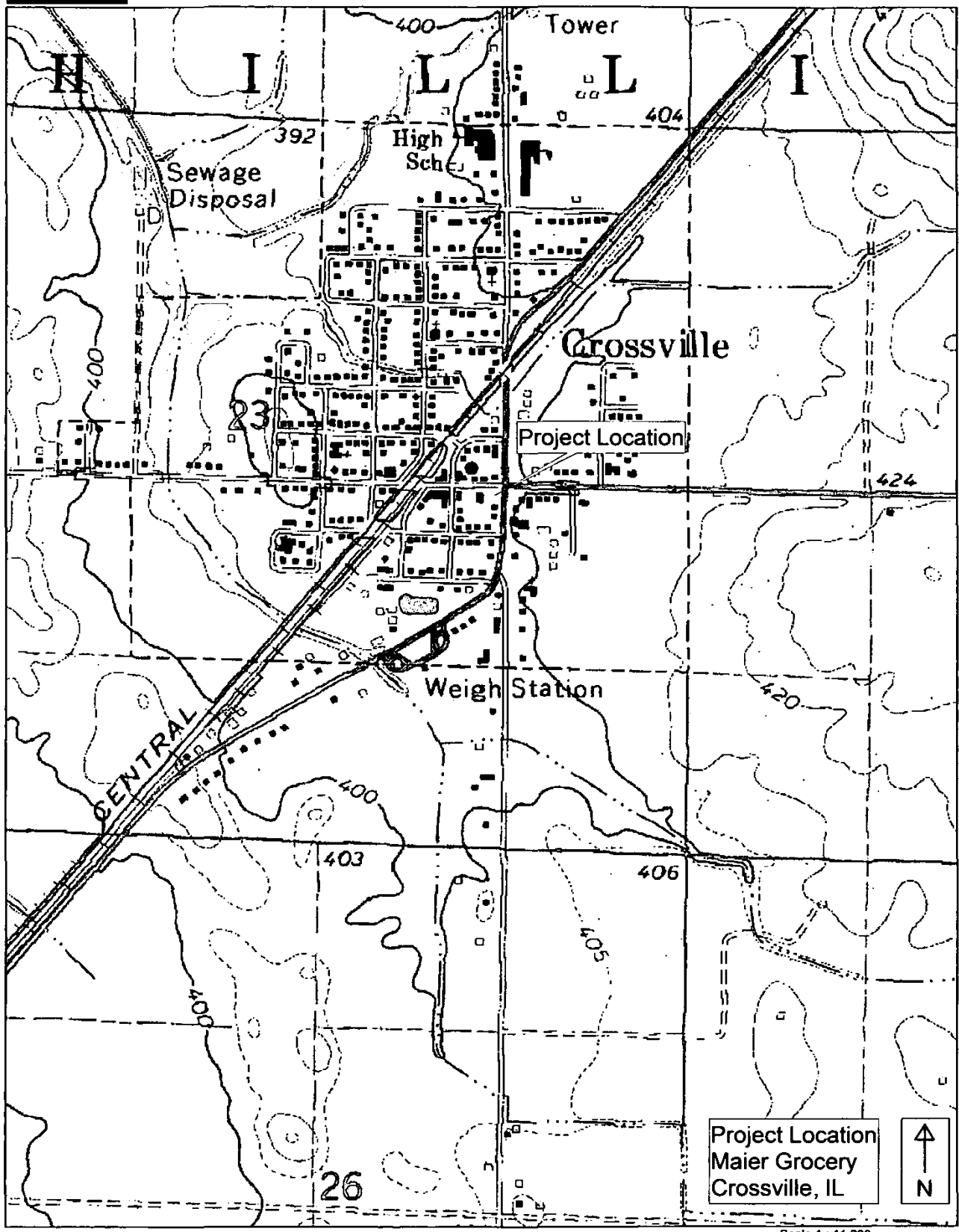


Data Zoom 7-1

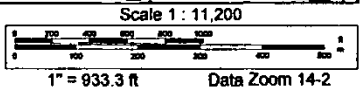
Data use subject to license.

© DeLorme. DeLorme Topo USA® 7.0.

www.delorme.com

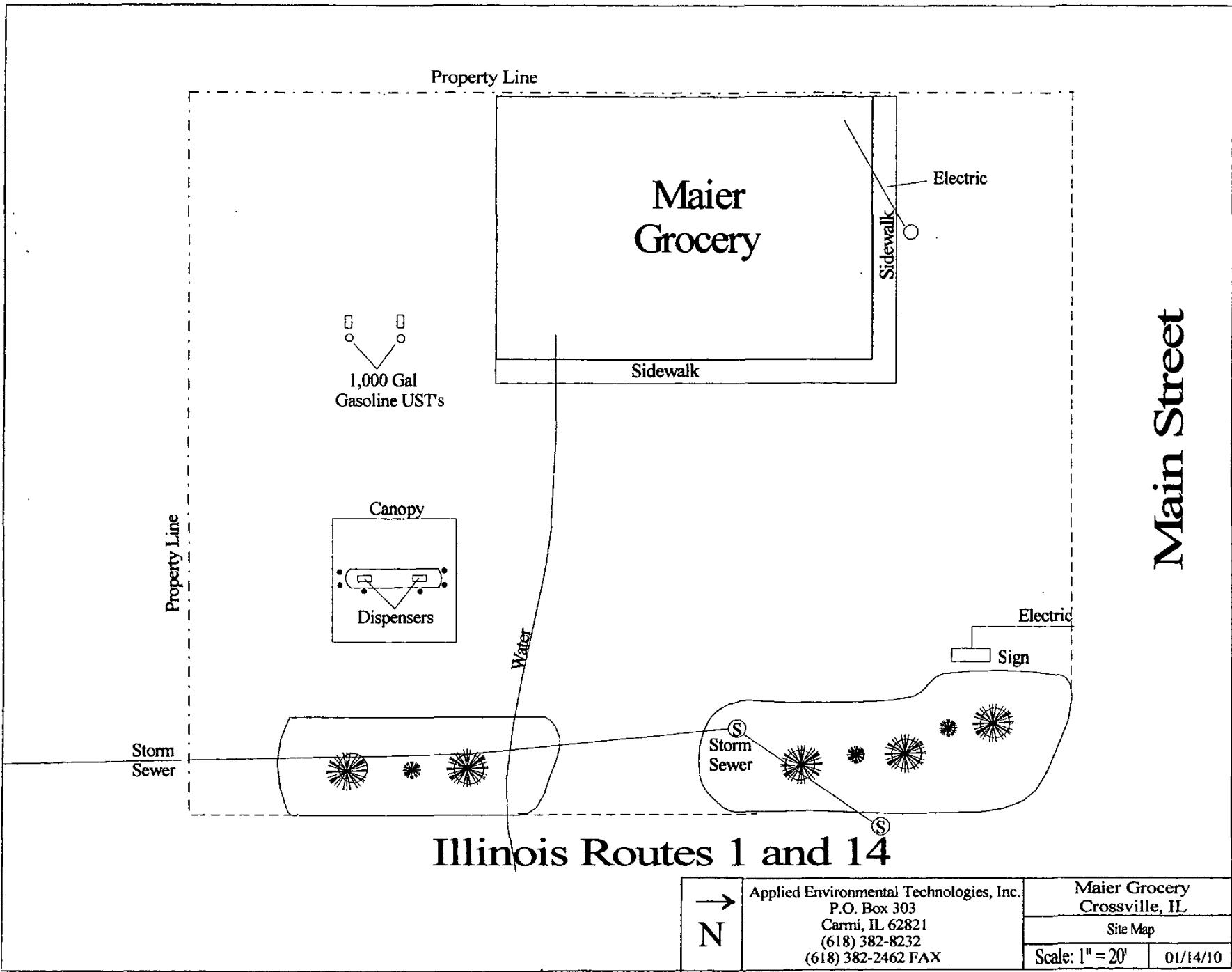


Data use subject to license.
 © 2004 DeLorme. Topo USA® 5.0.
 www.delorme.com



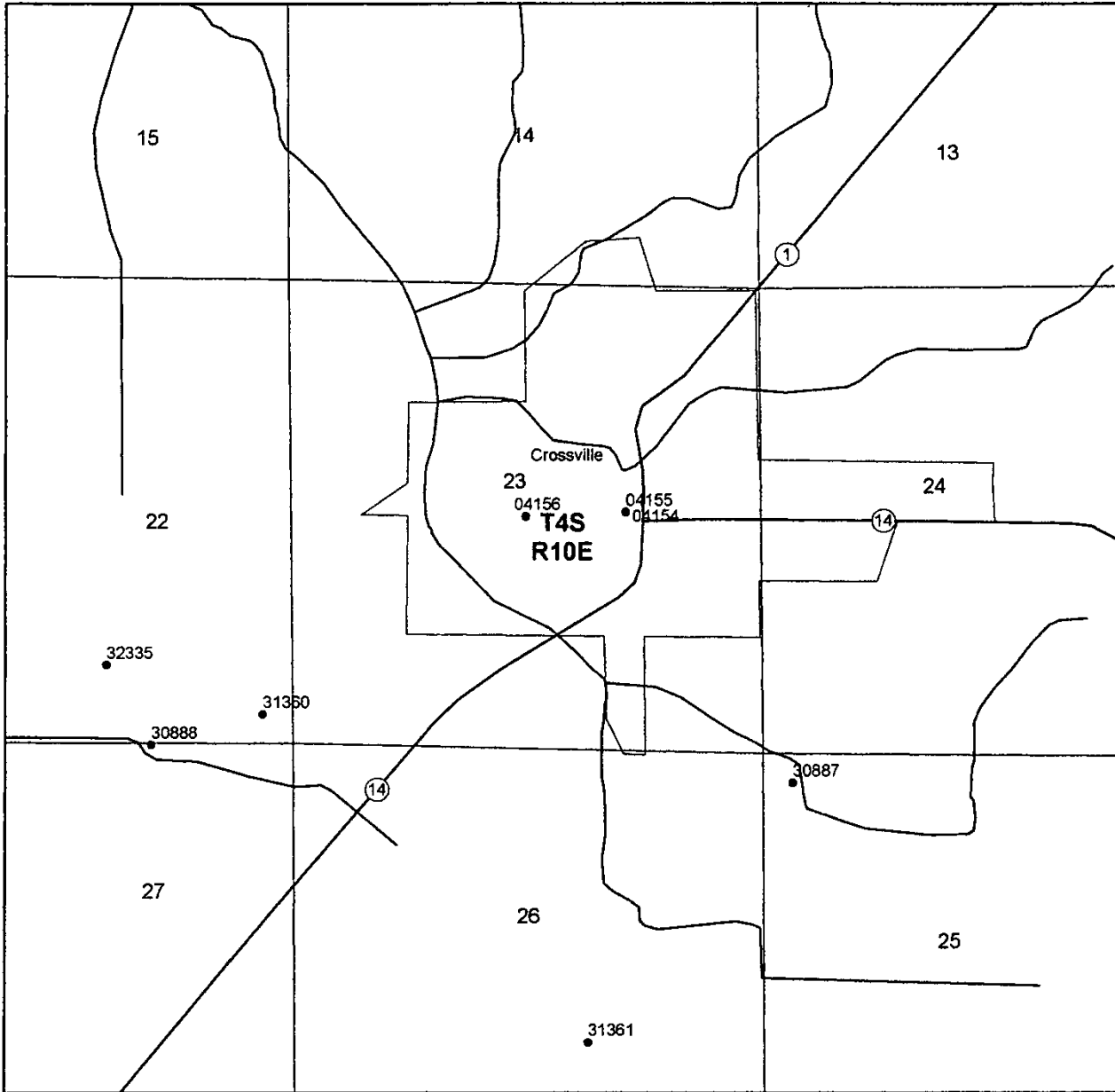
A-3

000026



→ N	Applied Environmental Technologies, Inc. P.O. Box 303 Carmi, IL 62821 (618) 382-8232 (618) 382-2462 FAX	Maier Grocery Crossville, IL	
		Site Map	
		Scale: 1" = 20'	01/14/10

Exhibit B

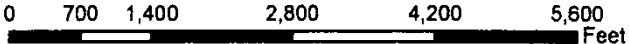


Explanation					
◊	Water	⊗	D&A - Gas Show	⊗	Junked
×	Engineering	◊	D&A	⊗	Temporarily Abandoned
•	Oil	⊗	Gas Injection	⊗	Observation
✱	Oil & Gas	◊	Gas Storage	⊗	Other Injection
⊗	Gas	•	Salt Water Disposal	⊗	Other Well Type
⊗	D&A - Oil Show	⊗	Water Injection	+	Unknown
⊗	D&A - Oil & Gas Show	Δ	Water Supply		

/ through any symbol indicates well is currently plugged



Illinois State Geological Survey
Questor: Custom Map



Scale: 1:20,236

Displayed data are based upon information supplied to the Illinois State Geological Survey (ISGS) and are not field verified. The ISGS does not guarantee the validity, accuracy, or completeness of these data.

January 4, 2010

Questor Data Extraction

11101

121933136000 Carter, Stan 22-4S-10E
White Speth, James SE SE SE

Well Status: WATER - Water Well TD: 49
Complate: 10/26/1990 Plugdate: Permit Date: 10/17/1990
Elevation: Permit #: 019390 Latitude: 38.155739 Longitude: -88.078836

Owner Address: R.R. #1 Crossville IL
Well Type: PRIV - Private Water Well
Water Bearing Formation: sand & gravel 35 to 48 ft
Static Water Level: 20 ft. below casing top of 1 ft. Hole Diam.:
Screen Diam.: 6 in. Screen Length: 10 ft. Slot: 20.00
Pumping Level: 48 ft. when pumping at 10 gpm for hours.
Casing and Liner Pipe: Diam. (in.) Kind and Weight From(ft)
6 ID SDR21 PVC PLASTIC -1 38
Driller's Log: 0 - 22 clay
22 - 25 quick sand
25 - 35 gray mud
35 - 48 sand & gravel
48 - 49 gray mud

121930415400 Crossville Village Test 1 23-4S-10E
White 75'S line, 1500'E line, NE

Well Status: WATER - Water Well TD:
Complate: Plugdate: Permit Date:
Elevation: Permit #: Latitude: 38.1618 Longitude: -88.064602

Logs Run: Geologic Tops
Survey Sample Study

121930415500 Crossville Village Test 2 23-4S-10E
White Dietz, Willis R. 65'S line, 1500'E line, NE

Well Status: WATER - Water Well TD: 41
Complate: Plugdate: Permit Date:
Elevation: Permit #: Latitude: 38.161772 Longitude: -88.064603

Logs Run: Geologic Tops
Survey Sample Study

121930415600 Crossville Village Test 3 23-4S-10E
White 40'S line, 1750'E line, NE

Well Status: WATER - Water Well TD: 41
Complate: Plugdate: Permit Date:
Elevation: Permit #: Latitude: 38.161705 Longitude: -88.068496

Logs Run: Geologic Tops
Survey Sample Study

121933088700 Viking Oil Co. 25-4S-10E
White Speth, David NW NW NW

Well Status: WATER - Water Well TD: 315
Complate: 01/15/1982 Plugdate: Permit Date: 12/10/1981
Elevation: Permit #: 102365 Latitude: 38.15336 Longitude: -88.058285

January 4, 2010

Questor Data Extraction

11101

Well Type: WF - Water Flood/Repressurize
 Water Bearing Formation: water sand 255 to 315 ft
 Static Water Level: 110 ft. below casing top of 1 ft. Hole Diam.:
 Pumping Level: ft. when pumping at 7 gpm for hours.
 Casing and Liner Pipe: Diam. (in.) Kind and Weight From(ft)
 5 ID PVC 0 256
 Size hole below casing: 5 in.

Driller's Log: 0 - 27 clay
 27 - 68 quick sand
 68 - 80 sand
 80 - 105 sandy slate
 105 - 163 dark slate
 163 - 167 coal
 167 - 168 lime
 168 - 185 gray slate
 185 - 211 sandy slate
 211 - 214 coal
 214 - 216 lime
 216 - 255 gray slate
 255 - 315 water sand

121933136100 Porter, Jess l 26-4S-10E
 White West, Dean NW SE

Well Status: WATER - Water Well
 Complate: 11/19/1992 Plugdate: TD: 71
 Elevation: Permit #: 022540 Permit Date: 10/26/1992
 Latitude: 38.145484 Longitude: -88.066369

Owner Address: P.O. Box #338 Crossville IL

Well Type: PRIV - Private Water Well

Water Bearing Formation: sand 59 to 76 ft
 Static Water Level: 13 ft. below casing top of 1 ft. Hole Diam.: 7 in.
 Screen Diam.: 5 in. Screen Length: 15 ft. Slot: .03
 Casing and Liner Pipe: Diam. (in.) Kind and Weight From(ft)
 5 SDR 21 -1 76
 Size hole below casing: 5 in.

Driller's Log: 0 - 12 clay
 12 - 49 blue shale
 49 - 71 sand

121933233500 Hodgson, Bill 27-4S-10E
 White Speth, James NE NW NE

Well Status: WATER - Water Well
 Complate: 09/20/2007 Plugdate: TD: 110
 Elevation: Permit #: 193-05- Permit Date: 08/21/2007
 Latitude: 38.157333 Longitude: -88.084889

Owner Address: 1561 Co. Rd. 1900 N Crossville IL 62827

Well Type: PRIV - Private Water Well

Water Bearing Formation: water sand 105 to 109 ft
 Static Water Level: 18 ft. below casing top of 1 ft. Hole Diam.: 8 in.
 Screen Diam.: 5 in. Screen Length: 10 ft. Slot: 20.00
 Casing and Liner Pipe: Diam. (in.) Kind and Weight From(ft)
 5 PVC SDR 21 -2 100
 5 SCREEN 100 110

Driller's Log: 0 - 4 topsoil
 4 - 13 brown clay

January 4, 2010

Questor Data Extraction

11101

15 - 31 gray clay
 31 - 49 sand & gravel
 49 - 69 gray clay
 69 - 76 brown clay
 76 - 88 gray shale
 88 - 89 lime
 89 - 92 gray shale
 92 - 96 sandy gray shale
 96 - 97 lime
 97 - 105 sandy gray shale
 105 - 109 water sand
 109 - 110 gray shale

121933088800
White

Hodgson, Joe I
Lamp, Robert Wayne

27-4S-10E
20'N line, 250'E line, NW NE

Well Status: WATER - Water Well

Complate: 03/01/1982

Plugdate:

TD: 100

Elevation:

Permit #: 102477

Permit Date: 12/23/1981

Latitude: 38.154851

Longitude: -88.083197

Owner Address: Crossville IL

Well Type: PRIV - Private Water Well

Water Bearing Formation: sandstone 80 to 100 ft

Static Water Level: 20 ft. below casing top of 1 ft. Hole Diam.:

Screen Diam.: 5 in. Screen Length: 10 ft. Slot: .01

Pumping Level: 60 ft. when pumping at 20 gpm for 1 hours.

Casing and Liner Pipe:	Diam. (in.)	Kind and Weight	From(ft)	
	5	SCH 40	-1	81
	5	SCH 40 SCRN .015 PVC	81	91
	5	SCH 40	91	96

Size hole below casing: 6.5 in.

Driller's Log: 0 - 15 clay
 15 - 30 sand quick sand
 30 - 80 sand & mud
 80 - 100 gray sandstone

Illinois State Water Survey Well Database

Wednesday, January 6, 2010

County: WHITE

Township: 04S

Range: 10E

Sections: 13-15,22-27

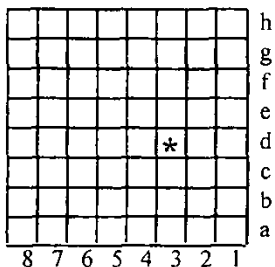
Records Found: 12

Questions: Contact the Illinois State Water Survey's Center for Groundwater Science @ (217)-333-9043

Publication: Please cite the Illinois State Water Survey's Well Database in all publications based wholly or partially on this information.

Note: The data listed in this printout includes non-municipal wells which are known to the Illinois State Water Survey (ISWS). This information has been entered verbatim from well logs submitted by the driller, chemical analysis reports, well sealing forms, well inventory forms from the 1930-1934 well survey, and other special projects. The accuracy of this data is controlled by those submitting the forms. Information in the Well Database has not been verified.

This data cannot be resold or redistributed. The Illinois State Water Survey must be acknowledged in any use of this material.



Location of a 10-acre-plot within a section:

The origin can be found at the lower right-hand-corner of an 8 x 8 grid. In this example, the well is in the 10-acre plot '3d'.

P NUM	FIPS	TWN	RNG	SEC	PLOT	OWNER	DRILLER	COMPLETED DATE	RECORD DEPTH	TYPE	USE	WELL TYPE	AQ TYPE	STAT LVL	PUMP LVL	PUMP GPM
209474	193	04S	10E	14	2G	LAMONT FARMS	HACKER	02/26/1990	120	RG	DO	--	BR	20		
200661	193	04S	10E	14	3G	WILLIAM LAMONT	FLEMING	04/14/1981	155	RG	DO	--	BR	17		
200662	193	04S	10E	14	7G	HARRY RISTER	TURNER	06/05/1976	100	RG	DO	--	BR	35		
200663	193	04S	10E	15	7A	GEORGE ROWLINSON(PLUGGED 118')	LAMP	08/12/1980	125	RG	DO	--	UN	30		
228638	193	04S	10E	22	1A	STAN CARTER	SPETH	10/26/1990	49	RG	DO	--	UN	19	48	
202088	193	04S	10E	23	4E	C W STURM		00/00/1940	38	RGC	DO	BD	--			
200668	193	04S	10E	25	8H	VIKING OIL CO	SPETH	01/15/1982	315	RG	IC	--	BR	110		
250338	193	04S	10E	26		JESS PORTER #1	WEST-STAR DRILING	11/19/1992	71	RG	DO	DL	UN	12		
300561	193	04S	10E	26	2B	TERRY WEST	SPETH PLBG./WALKER	06/18/1997	58	RG	DO	BD	UN	2	23	30
228640	193	04S	10E	27		BEULAH KERSHAW	SLOAN WELL SERVICE	09/12/1990	150	RG	DO	--	UN			
434414	193	04S	10E	27	3H	BILL HODGSON	JAMES SPETH	09/20/2007	110	RG	DO	DL	UN			
200672	193	04S	10E	27	3H	JOE HODGSON	LAMP	03/01/1982	100	RG	DO	--	BR	20		

000033

Illinois State Water Survey IWIP Database

Wednesday, January 6, 2010

County: WHITE

Township: 04S

Range: 10E

Sections: 13-15,22-27

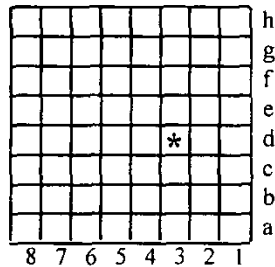
Records Found: 4

Questions: Contact the Illinois State Water Survey's Center for Groundwater Science @ (217)-333-9043

Publication: Please cite the Illinois State Water Survey's IWIP (Illinois Water Inventory Program) Database in all publications based wholly or partially this information.

Note: The data in the IWIP Database is a listing of municipal and commercial wells which are known to the Illinois State Water Survey (ISWS). This information was initially entered from public water supply data and supplemented with the Illinois State Water Inventory Project data. This database is updated as additional information is received and verified.

This data cannot be resold or redistributed. The Illinois State Water Survey must be acknowledged in any use of this material.



Location of a 10-acre-plot within a section:

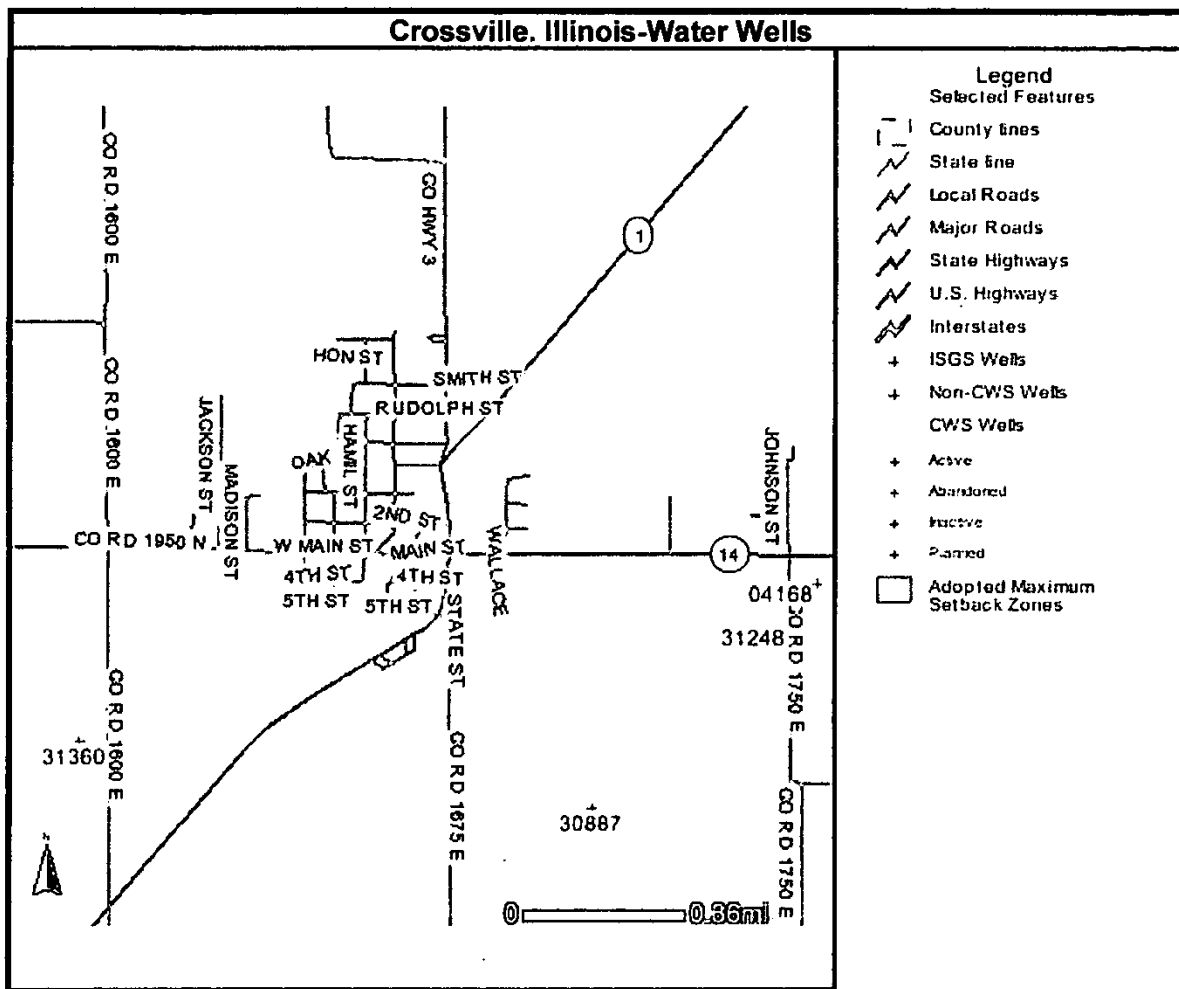
The origin can be found at the lower right-hand-corner of an 8 x 8 grid. In this example, the well is in the 10-acre plot '3d'.



P NUM	FIPS	TWN	RNG	SEC	PLOT	OWNER	DRILLER	COMPLETED		STATUS	RECORD	STAT	PUMP	PUMP
								DATE	DEPTH		TYPE	LVL	LVL	GPM
409095	193	04S	10E	23	3E	CROSSVILLE	ROBERT R CALLAGHAN	1944		A	Z			
ISWS FACILITY ID: 19390150 WELL NUMBER: 3														
409096	193	04S	10E	23	3E	CROSSVILLE	LOCKWOOD & SUTTON	1946	165	A	L			
REMARKS: BACKFILLED TO 107 ISWS FACILITY ID: 19390150 WELL NUMBER: 4														
409097	193	04S	10E	23	3E	CROSSVILLE	ENOCH L POTTS	1940	41	A	RG			
REMARKS: ACTUAL DEPTH = 40.3 ISWS FACILITY ID: 19390150 WELL NUMBER: 1														
409098	193	04S	10E	23	3E	CROSSVILLE	ALBERT LANCASTER	1940		A	Z			
REMARKS: ACTUAL DEPTH = 47.5 ISWS FACILITY ID: 19390150 WELL NUMBER: 2														

000035

Information and data presented were obtained from various Federal, State, and local agencies and are subject to revision.



ISGS Wells

Rec	API_NUMBER	TOTAL_DEPT	FARM_NAME	ELEVATION	STATUS	LAM_X	LAM_Y	LATITUDE	LONGITUDE	COUNTY_NO
1	121930415500	41	Crossville Village Test	0	WATER	3410516	1875909	38.161719	88.064589	04155
2	121933124800	330	Carr etal Unit	430	WATRS	3414554	1875021	38.159091	88.050521	31248
3	121933168000	74	Weigh Station Ditch	396	ENG	3409403	1875867	38.161651	88.068482	31680
4	121930415600	41	Crossville Village Test	0	WATER	3409403	1875867	38.161651	88.068482	04156
5	121930415400	0	Crossville Village Test	0	WATER	3410516	1875919	38.161746	88.064588	04154



Exhibit C



OFFICE OF THE ILLINOIS STATE FIRE MARSHAL
 Division of Technical Services
 1035 Stevenson Drive
 Springfield, Illinois 62703-4259
 (217)524-7605

FOR OFFICE USE ONLY
 Facility # 7-021663
 Permit # 00007-2010REM
 Request Rec'd 12/23/2009
 Amended Date
 Approval Date 1/6/2010 DS
 Permit Expires 7/6/2010

Permit for REMOVAL of Underground Storage Tank(s) and Piping for Petroleum and Hazardous Substances.

Permission to remove underground storage tank(s) or piping is hereby granted. Such removal shall not commence until the contractor the permit was issued to or an employee of that contractor (this does not include a subcontractor) shall establish a date certain to perform the UST activity by contacting the Office of the State Fire Marshal, Division of Petroleum and Chemical Safety, by telephone at the Springfield office between 8:30 a.m. and 12:00 p.m., at which time a mutually agreed upon date and time for the UST activity shall be scheduled. **THIS PERMIT IS VALID FOR SIX MONTHS FROM THE APPROVAL DATE.**

<p>(1) OWNER OF TANKS - Corporation, partnership, or other business entity: Martin & Bayley, Inc. 928 County Road 1350 North, Canni, IL 62821 Contact: Mark Bayley (618) 382-2334</p>	<p>(2) FACILITY - name and address where tanks are located: Meier Grocery #131 109 South State Highway 1 Crossville, White Co., IL Contact: Mark Bayley (618) 382-2334</p>
--	---

(3) **REMOVAL OF TANKS:**

- (a) *Number and size of tanks being removed:* (TK # 1, 2) - 10,000 gallons
- (b) *Product stored in each tank:* (TK # 1, 2) - Gasoline
- (c) *Reason of tanks being removed:*
- (d) *If tank(s) is leaking, indicate IEMA incident number:*
- (e) *Date each tank was last used:* (TK # 1), (TK # 2)

(4) The owner must notify this Office when completion of tank removal has occurred, on the Notification for Underground Storage Tank Form This form can be obtained at www.state.il.us/osfm or by calling (217)785-1020. After removal is completed, the owner/operator shall perform a site assessment by measuring for the presence of a release where contamination is most likely to be present at the UST site. This is in accordance with the Illinois Administrative Code 170.640 (a) regulations and 40 CFR Part 280.72 (a) Federal Register Requirement.

(5) **SPECIAL CONTINGENCIES:**

<p>(6) PERSON, FIRM OR COMPANY PERFORMING WORK: Jeff Guisewite, Inc. 16153 East 1100 Road, Mount Carmel, IL 62863</p>	<p>Contact Person: Jeff Guisewite Phone: (618) 262-4933 Contractor Registration # IL-497 Exp. 08/10/2010</p>
---	--

Sincerely,

Daniel Starks

cc: Storage Tank Safety Specialist -
 Fire Department -
 Office Coordinator -
 Division File
 (Rev. - 6/07)



12065 Lebanon Rd.
Mt. Juliet, TN 37122
(615) 758-5858
1-800-767-5859
Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

Mr. Bryan Williams
Applied Environmental Technologies, Inc.
PO Box 303

Carmi, IL 62821

Report Summary

Wednesday December 30, 2009

Report Number: L438155

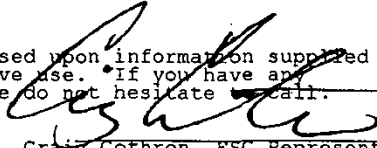
Samples Received: 12/23/09

Client Project: MAIER

Description: Maiers Grocery

The analytical results in this report are based upon information supplied by you, the client, and are for your exclusive use. If you have any questions regarding this data package, please do not hesitate to call.

Entire Report Reviewed By:


Craig Cothron, ESC Representative

Laboratory Certification Numbers

A2LA - 1461-01, AIHA - 100789, AL - 40660, CA - I-2327, CT - PH-0197, FL - E87487
GA - 923, IN - C-TN-01, KY - 90010, KYUST - 0016, NC - ENV375, DW21704, ND - R-140
NJ - TN002, NJ NELAP - TN002, SC - 84004, TN - 2006, VA - 00109, WV - 233
AZ - 0612, MN - 047-999-395, NY - 11742, WI - 998093910

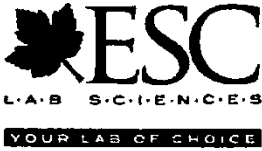
Accreditation is only applicable to the test methods specified on each scope of accreditation held by ESC Lab Sciences.

This report may not be reproduced, except in full, without written approval from Environmental Science Corp.

Where applicable, sampling conducted by ESC is performed per guidance provided in laboratory standard operating procedures: 060302, 060303, and 060304.

2 Samples Reported: 12/30/09 09:52 Printed: 12/30/09 09:52

Page 1 of 5



12065 Lebanon Rd.
Mt. Juliet, TN 37122
(615) 758-5858
1-800-767-5859
Fax (615) 758-5859
Tax I.D. 62-0814289
Est. 1970

REPORT OF ANALYSIS

Mr. Bryan Williams
Applied Environmental Technologies,
PO Box 303
Carmi, IL 62821

December 30, 2009

Date Received : December 23, 2009
Description : Maiers Grocery
Sample ID : NO. 2 6 FT
Collected By : Bryan Williams
Collection Date : 12/16/09 07:30

ESC Sample # : L438155-01

Site ID :

Project # : MAIER

Parameter	Dry Result	Det. Limit	Units	Method	Date	Dil.
Total Solids	80.3		%	2540G	12/24/09	1
Benzene	2.2	0.31	mg/kg	8021	12/23/09	500
Toluene	22.	3.1	mg/kg	8021	12/23/09	500
Ethylbenzene	36.	0.31	mg/kg	8021	12/23/09	500
Total Xylene	200	0.93	mg/kg	8021	12/23/09	500
Surrogate Recovery-% a, a, a-Trifluorotoluene (PID)	106.		% Rec.	8021	12/23/09	500

Results listed are dry weight basis.
BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit (PQL)
Note:
This report shall not be reproduced, except in full, without the written approval from ESC.
The reported analytical results relate only to the sample submitted
Reported: 12/30/09 09:52 Printed: 12/30/09 09:52



12065 Lebanon Rd.
 Mt. Juliet, TN 37122
 (615) 758-5858
 1-800-767-5859
 Fax (615) 758-5859

Tax I.D. 62-0814289
 Est. 1970

REPORT OF ANALYSIS

Mr. Bryan Williams
 Applied Environmental Technologies,
 PO Box 303
 Carmi, IL 62821

December 30, 2009

Date Received : December 23, 2009
 Description : Maiers Grocery
 Sample ID : NO. 2 6 FT
 Collected By : Bryan Williams
 Collection Date : 12/16/09 07:30

ESC Sample # : L438155-02
 Site ID :
 Project : MAIER

Parameter	Result	Det. Limit	Units	Limit	Method	Date/Time	By	Dil
Ignitability	See Footnote		Deg. F		D93/101	12/29/09 1705	MCF	1
Paint Filter Test	See Footnote		%		9095B	12/28/09 1653	MCF	1
TCLP Extraction	-				1311	12/27/09 0856	MVE	1
Lead	0.13	0.0075	mg/l	5.0	6010B	12/28/09 2130	ST	1

BDL - Below Detection Limit
 Det. Limit - Estimated Quantitation Limit(EQL)
 Limit - Maximum Contaminant Level as established by the US EPA

Note:
 The reported analytical results relate only to the sample submitted.
 This report shall not be reproduced, except in full, without the written approval from ESC.

Reported: 12/30/09 09:52 Printed: 12/30/09 09:52
 L438155-02 (IGNITABILITY) - Did Ignite @ 135 F
 L438155-02 (PAINT) - Contains No Free Liquid

Attachment A
List of Analytes with QC Qualifiers

Sample Number	Work Group	Sample Type	Analyte	Run ID	Qualifier
L438155-02	WG457150	SAMP	Ignitability	R1059149	J3

Attachment B
Explanation of QC Qualifier Codes

Qualifier	Meaning
J3	The associated batch QC was outside the established quality control range for precision.

Qualifier Report Information

ESC utilizes sample and result qualifiers as set forth by the EPA Contract Laboratory Program and as required by most certifying bodies including NELAC. In addition to the EPA qualifiers adopted by ESC, we have implemented ESC qualifiers to provide more information pertaining to our analytical results. Each qualifier is designated in the qualifier explanation as either EPA or ESC. Data qualifiers are intended to provide the ESC client with more detailed information concerning the potential bias of reported data. Because of the wide range of constituents and variety of matrices incorporated by most EPA methods, it is common for some compounds to fall outside of established ranges. These exceptions are evaluated and all reported data is valid and useable unless qualified as 'R' (Rejected).

Definitions

- Accuracy - The relationship of the observed value of a known sample to the true value of a known sample. Represented by percent recovery and relevant to samples such as: control samples, matrix spike recoveries, surrogate recoveries, etc.
- Precision - The agreement between a set of samples or between duplicate samples. Relates to how close together the results are and is represented by Relative Percent Difference.
- Surrogate - Organic compounds that are similar in chemical composition, extraction, and chromatography to analytes of interest. The surrogates are used to determine the probable response of the group of analytes that are chemically related to the surrogate compound. Surrogates are added to the sample and carried through all stages of preparation and analyses.
- TIC - Tentatively Identified Compound: Compounds detected in samples that are not target compounds, internal standards, system monitoring compounds, or surrogates.

Company Name/Address:
Applied Environmental Technologies, Inc.
 PO Box 303
 Carmi, IL 62821

Alternate billing information:

Analysis/Container/Preservative

Chain of Custody Page 1 of 1

Prepared by: **A166**
ENVIRONMENTAL SCIENCE CORP.
 12065 Lebanon Road
 Mt. Juliet, TN 37122
 Phone (615) 758-5858
 Phone (800) 767-5859
 FAX (615) 758-5859

Report to: **MR Bryan Williams**

Email to: **aet90@venym.net**

Project Description: **Maier's Grocery**

City/State Collected: **Crossville, IL**

Phone: (618) 382-8232
 FAX: (618) 382-2462

Client Project #: **Maier**

ESC Key:

Collected by: **BWilliams**
 Collected by (signature): *Bryan Williams*

Rush? (Lab MUST Be Notified)
 Same Day 200%
 Next Day 100%
 Two Day 50%
 Three Day 25%

Date Results Needed:
 Email? No Yes
 FAX? No Yes

BTEX (24hrs Express) (Lead)
 TCLP Lead
 Open Cup Flash Point
 Paint Filter

Co Code: **APPENVCI** (lab use only)
 Template/Protocol
 Shipped Via

Sample ID	Comp/Grab	Matrix*	Depth	Date	Time	No. of Cntrs
NO 2	Grab	SS	6'	12/16/09	7:30	2

Remarks/Contaminant	Sample # (lab only)
	LX38155-01/02

*Matrix: **SS** - Soil/Solid **GW** - Groundwater **WW** - WasteWater **DW** - Drinking Water **OT** - Other
 Remarks: **9669 7462 0632 # Log BTEX, IGA, PAINT as Next Day TAT**
 pH _____ Temp _____
 Flow _____ Other _____

Relinquished by: (Signature) <i>Bryan Williams</i>	Date: 12/22/09	Time: 10:30	Received by: (Signature) <i>[Signature]</i>	Samples returned via: <input type="checkbox"/> UPS <input checked="" type="checkbox"/> FedEx <input type="checkbox"/> Courier <input type="checkbox"/> _____	Condition: OK (lab use only)
Relinquished by: (Signature) <i>[Signature]</i>	Date:	Time:	Received by: (Signature) <i>[Signature]</i>	Limp: 3/lot	Bottles Received: 2/lot
Relinquished by: (Signature) <i>[Signature]</i>	Date:	Time:	Received for lab by: (Signature) <i>[Signature]</i>	Date: 12/23/09	Time: 0700

000044

Summary of Remarks For Samples Printed
12/30/09 at 09:52:23

TSR Signing Reports: 034
R2 - Rush: Next Day

PENDING CALL FROM SALES RE: CL

Sample: L438155-01 Account: APPENCIR Received: 12/23/09 09:00 Due Date: 12/24/09 00:00 RPT Date: 12/30/09 09:52
Open cup IGN
Sample: L438155-02 Account: APPENCIR Received: 12/23/09 09:00 Due Date: 12/31/09 00:00 RPT Date: 12/30/09 09:52



ILLINOIS ENVIRONMENTAL PROTECTION AGENCY

1021 North Grand Avenue East, P.O. Box 19276, Springfield, Illinois 62794-9276 • (217) 782-2829
James R. Thompson Center, 100 West Randolph, Suite 11-300, Chicago, IL 60601 • (312) 814-6026

PAT QUINN, GOVERNOR

DOUGLAS P. SCOTT, DIRECTOR

217/782-6762

February 4, 2010

Martin & Bailey, Inc.
Mark Bailey
928 County Road 1350N
Carmi, IL 62821

Re: LPC #1930155021 -- White County
Crossville - Martin & Bailey, Inc.
109 South State
Leaking UST Incident No. 20091397
Leaking UST Technical File

RELEASABLE

FEB 04 2010

REVIEWER MD

Dear Owner/Operator:

The Illinois Environmental Protection Agency (Illinois EPA) has received the 45-Day Report, which included a Stage 1 Site Investigation Plan and Budget certification, for the above-referenced release. The report was dated January 25, 2010 and was received by the Illinois EPA on January 26, 2010. Citations in this letter are from the Environmental Protection Act (Act), as amended by Public Act 92-0554 on June 24, 2002, and 35 Illinois Administrative Code (35 Ill. Adm. Code).

At a later time, the Illinois EPA will conduct a full technical review of the 45-Day Report and any other report submitted pursuant to Section 57.6 of the Act and 35 Ill. Adm. Code 734.Subpart B, in conjunction with any other plan or report selected for review (35 Ill. Adm. Code 734.505).

Pursuant to your certification, you must now proceed with the Stage 1 site investigation in accordance with 35 Ill. Adm. Code 734.315 if laboratory analytical results of the early action sampling prescribed at 35 Ill. Adm. Code 734.210(h) demonstrate that the most stringent Tier I remediation objectives of 35 Ill. Adm. Code 742 for the applicable indicator contaminants have not been met or one or more of the criteria at 35 Ill. Adm. Code 734.210(h)(4) are met. The costs, if seeking payment from the Underground Storage Tank Fund (Fund), must not exceed the amounts set forth in 35 Ill. Adm. Code 734.Subpart H, Appendix D, and Appendix E. Please be advised that, if you do not meet the eligibility requirements as determined by the Office of the State Fire Marshal, you may not be entitled to payment from the Fund for costs incurred.

If information gathered from early action activities indicates that site investigation is required, pursuant to Sections 57.7(a) and 57.12(c) and (d) of the Act and 35 Ill. Adm. Code 734.305, a site investigation plan and budget for the subsequent stage of investigation (including the results of the Stage 1 site investigation and a summary of actual costs) or a site investigation completion report (if the extent of contamination is defined) must be submitted within 90 days of the date of this letter. Please note that the Illinois EPA does not require the submission of a budget if the owner or operator does not intend to seek payment from the Fund.

In addition, an owner or operator may choose to remediate soil and groundwater in accordance with the remediation objectives at 35 Ill. Adm. Code 742 without conducting a site investigation. If the owner or operator chooses not to investigate the site in accordance with the procedures established in Section 57.7(a) of the Act, the owner or operator may not be entitled to full payment if a request for payment from the Fund is submitted.

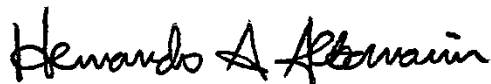
Submit all future correspondence to:

Illinois Environmental Protection Agency
Bureau of Land - #24
Leaking Underground Storage Tank Section
1021 North Grand Avenue East
Post Office Box 19276
Springfield, IL 62794-9276

Please submit all correspondence in duplicate and include the Re: block shown at the beginning of this letter.

If you have any questions or need further assistance, please contact the project manager on-call in the Leaking Underground Storage Tank Section at the above number.

Sincerely,



Hernando A. Albarracin, Manager
Leaking Underground Storage Tank Section
Division of Remediation Management
Bureau of Land

HAA:dks

c: Applied Environmental Technologies, Inc.
BOL File

1930155021-White
Martin & Bayley, Inc.
Hunt Creek

APPLIED ENVIRONMENTAL TECHNOLOGIES, INC.

Bryan K. Williams
Professional Geologist/President

P.O. Box 303
Carmi, IL 62821
Bus. 618-382-8232
Fax 618-382-2462
Home 618-384-3601

February 10, 2010

Illinois Environmental Protection Agency
Bureau of Land #24
Leaking Underground Storage Tank Section
1021 N. Grand Avenue East
P.O. Box 19276
Springfield, IL 62794-9276

RE: I.E.M.A. Incident No. H-20091397
45-Day Report Addendum
Maier's Grocery
109 South State Street
Crossville, IL 62827

To Whom It May Concern:

Please find enclosed the 45-Day Report Addendum regarding the above referenced site.

If you have any questions or need any additional information, please advise.

Sincerely yours,



Bryan Williams
Professional Geologist

BKW:cjc
Enclosure

cc: Mr. Mark Bayley, Martin & Bayley, Inc.

RELEASABLE

FEB 24 2010

REVIEWER MD

RECEIVED

FEB 16 2010

IEP/BOL

The Agency is authorized to require this information under Section 4 and Title XVI of the Environmental Protection Act (415 ILCS 5/4, 5/57 - 57.17). Failure to disclose this information may result in a civil penalty of not to exceed \$50,000.00 for the violation and an additional civil penalty of not to exceed \$10,000.00 for each day during which the violation continues (415 ILCS 5/42). Any person who knowingly makes a false material statement or representation in any label, manifest, record, report, permit, or license, or other document filed, maintained or used for the purpose of compliance with Title XVI commits a Class 4 felony. Any second or subsequent offense after conviction hereunder is a Class 3 felony (415 ILCS 5/57.17). This form has been approved by the Forms Management Center.

**Illinois Environmental Protection Agency
Leaking Underground Storage Tank Program
LUST Technical Form Cover Page**

IEMA Incident #: H-20091397 IEPA LPC# (10-digit) 1930155021
 Site Name Maier's Grocery
 Site Address (Not a P.O. Box): 109 South State Street
 City: Crossville County: White ZIP Code: 62827

Please indicate below the type of plan/report that is being submitted to the Illinois EPA at this time. This form must be attached to all plans and reports submitted to the Illinois EPA pursuant to 35 Ill. Adm. Code 731, 732 and/or 415 ILCS 5/57-57.17. Please check all that apply.

20 Day Certification	_____						
45 Day Report	<u> X </u>						
Free Product Removal Report	_____						
Owner/Operator Summary	_____						
Election to Proceed Under Title XVI	_____						
	<table border="0"> <tr> <td></td> <td align="center">Initial</td> <td align="center">Amended</td> </tr> <tr> <td></td> <td align="center">Submittal</td> <td align="center">Submittal</td> </tr> </table>		Initial	Amended		Submittal	Submittal
	Initial	Amended					
	Submittal	Submittal					
Site Investigation Plan	_____						
Site Investigation Budget	_____						
Site Investigation Completion Report	_____						
Site Classification Plan	_____						
Site Classification Plan Budget	_____						
Site Classification Completion Report	_____						
Groundwater Monitoring Plan (Low Priority)	_____						
Groundwater Monitoring Plan Budget (Low Priority)	_____						
Groundwater Monitoring Results (Low Priority)	_____						
Corrective Action Plan	_____						
Corrective Action Plan Budget (High Priority)	_____						
Corrective Action Completion Report	_____						
Professional Engineer Certification (High Priority)	_____						
Other (specify) _____	_____						

RELEASABLE

FEB 24 2010

REVIEWER MD

I.E.M.A. INCIDENT NO. H-20091397

**45-DAY ADDENDUM REPORT
FOR**

MAIER'S GROCERY

**109 SOUTH STATE STREET
CROSSVILLE, ILLINOIS 62827**

February 12, 2010

Submitted for:

Martin and Bayley, Inc.
P.O. Box 385
Carmi, Illinois 62821
(618)382-2334

Submitted by:

Applied Environmental
Technologies, Inc.
P.O. Box 303
Carmi, IL 62821
(618) 382-8232

Project No. 1487

**RECEIVED
FEB 16 2010
IEPA/BOL**

**LEAKING UNDERGROUND STORAGE TANK PROGRAM
45-DAY ADDENDUM REPORT
TABLE OF CONTENTS**

<u>Page</u>	<u>Item</u>
1-4	45-Day Report Form
5-12	45-Day Addendum Report Additional Information
Exhibit A	
A-1	County Location Map
A-2	Topography Map
A-3	Site Layout
A-4	Underground Storage Tank Cross Section/ Plan View
Exhibit B	
B-1	Site Map with Excavation Limits
B-2	Analytical Summary Tables
B-3	Laboratory Report and Chain of Custody Form
B-4	Illinois EPA Laboratory Certification Form
Exhibit C	
C-1	OSFM Removal Permit
Exhibit D	
D-1	Soil Disposal Manifests and Landfill Scale Tickets
D-2	UST Disposal Receipt
D-3	55 Gallon Drum Disposal Manifest
D-4	Fuel/Water Recycle Manifests
Exhibit E	
	Water Well Report
Exhibit F	
	Photographs

The Agency is authorized to require this information under Section 4 and Title XVI of the Environmental Protection Act (415 ILCS 5/4, 5/57 - 57.17). Failure to disclose this information may result in a civil penalty of not to exceed \$50,000.00 for the violation and an additional civil penalty of not to exceed \$10,000.00 for each day during which the violation continues (415 ILCS 5/42). Any person who knowingly makes a false material statement or representation in any label, manifest, record, report, permit, or license, or other document filed, maintained or used for the purpose of compliance with Title XVI commits a Class 4 felony. Any second or subsequent offense after conviction hereunder is a Class 3 felony (415 ILCS 5/57.17). This form has been approved by the Forms Management Center.

Illinois Environmental Protection Agency Leaking Underground Storage Tank Program 45-Day Report

A. Site Identification

IEMA Incident # (6- or 8-digit): H-20091397 IEPA LPC# (10-digit): 1930155021
 Site Name: Maier's Grocery
 Site Address (Not a P.O. Box): 109 South State Street
 City: Crossville County: White ZIP Code: 61827
 Leaking UST Technical File

B. Release Information

UST Volume (gallons)	Material Stored in UST	Release Yes / No	Type of Release Tank Leak / Overfill / Piping Leak	Product removed? Yes / No	Tank Status Repaired / Removed / Abandoned / In Use
10,000.0	Gasoline	Yes	Tank Leak	Yes	Removed
10,000.0	Gasoline	Yes	Tank Leak	Yes	Removed

C. Early Action

1. Does this report demonstrate that the most stringent Tier 1 remediation objectives have been met? Yes No
2. Was free product encountered? Yes No
 If yes, the owner or operator must submit a Free Product Removal Report (form LPC 504). If free product removal will be conducted for more than 45 days, a Free Product Removal Plan (and budget, if applicable) must be submitted (form LPC 504).
3. Have any fire or safety hazards posed by vapors or free product or contamination to a potable water supply been identified? Yes No

RECEIVED

FEB 16 2010

IEPA/BOL

4. What was the volume of backfill material excavated? 362.0 yds³
5. What was the volume of native soil excavated? 0.0 yds³
6. Was groundwater encountered at the site? Yes No
7. Did the groundwater exhibit a sheen? Yes No

D. Site/Release Information

Provide the following:

1. Data on the nature and estimated quantity of release;
2. Data from available sources or site investigations concerning the following factors:
 - a. Surrounding populations;
 - b. Water quality;
 - c. Use and approximate locations of wells potentially affected by the release;
 - d. Subsurface soil conditions;
 - e. Location of subsurface sewers;
 - f. Climatological conditions; and
 - g. Land use;
3. A discussion of what was done to measure for the presence of a release where contamination was most likely to be present at the UST site;
4. The results of the free product investigations;
5. A discussion of the action taken to prevent further release of the regulated substance into the environment;
6. A discussion of the action taken to monitor and mitigate fire and safety hazards posed by vapors or free product that has migrated from the UST excavation zone and entered subsurface structures; and
7. Any other information collected while performing initial abatement measures pursuant to 35 Ill. Adm. Code 731.162, 732.202(b), or 734.210(b).

E. Other Information

Provide the following:

1. An area map showing the site in relation to surrounding properties;
2. A cross section, to scale, showing the UST(s) and the excavation;
3. Analytical/screening results in tabular format including the results of soil samples required pursuant to 35 Ill. Adm. Code 732.202(h) or 734.210(h) and the most stringent Tier 1 remediation objectives;
4. Site map meeting the requirements of 35 Ill. Adm. Code 732.110(a) or 734.440 and including sample locations;
5. Soil boring logs;

6. Chain of custody forms;
7. Laboratory analytical reports;
8. Laboratory certifications;
9. A copy of the Office of the State Fire Marshal Permit for Removal, Abandonment-in-Place, or other OSFM permits or notifications;
10. A narrative of tank removal and cleaning operations; describe how wastes generated during the tank removal were managed, treated, and disposed of;
11. Photographs of UST removal activities and the excavation; and
12. Copies of manifests for soil and groundwater transported off-site.

F. Early Action Tier 1 Remediation Objectives Compliance Report

If the most stringent Tier 1 remediation objectives of 35 Ill. Adm. Code 742 for the applicable indicator contaminants have been met and a groundwater investigation is not required, in addition to the information provided above, provide the following:

1. Site characterization;
2. If water was encountered in the excavation, provide a demonstration pursuant to 35 Ill. Adm. Code 732.202(h)(4)(C) or 734.210(h)(4)(C) that it is not representative of actual groundwater; and
3. Property Owner Summary (form LPC 568).

G. Signatures

UST Owner or Operator Signature:

All plans, budgets, and reports must be signed by the owner or operator and list the owner's or operator's full name, address, and telephone number.

UST Owner or Operator and Licensed Professional Engineer or Licensed Professional Geologist Certification of Stage 1 Site Investigation Plan and Budget (applies to Part 734 sites continuing beyond early action):

Pursuant to 35 Ill. Adm. Code 734.315(b) and 734.310(b), I certify that the Stage 1 site investigation will be conducted in accordance with 35 Ill. Adm. Code 734.315 and that the costs of the Stage 1 site investigation will not exceed the amounts set forth in 35 Ill. Adm. Code 734.Subpart H, Appendix D, and Appendix E. This certification is intended to meet the requirements for a plan and budget for the Stage 1 site investigation required to be submitted pursuant to 35 Ill. Adm. Code 734.315 and 734.310.

A summary of the actual costs for conducting the Stage 1 site investigation will be submitted concurrently with the results of the Stage 1 site investigation and the Stage 2 site investigation plan and budget.

Licensed Professional Engineer or Licensed Professional Geologist Certification:

I certify under penalty of law that all activities that are the subject of this plan, budget, or report were conducted under my supervision or were conducted under the supervision of another Licensed Professional Engineer or Licensed Professional Geologist and reviewed by me; that this plan, budget, or report and all attachments were prepared under my supervision; that, to the best of my knowledge and belief, the work described in this plan, budget, or report has been completed in accordance with the Environmental Protection Act [415 ILCS 5], 35 Ill. Adm. Code 731, 732, or 734, and generally accepted standards and practices of my profession; and that the information presented is accurate and complete. I am aware there are significant penalties for submitting false statements or representations to the Illinois EPA, including but not limited to fines, imprisonment, or both as provided in Sections 44 and 57.17 of the Environmental Protection Act [415 ILCS 5/44 and 57.17].

UST Owner or Operator

Name: Martin & Bayley, Inc.
Contact: Mr. Mark Bayley
Address: P.O. Box 385
City: Carmi
State: IL
ZIP Code: 62821
Phone: (618) 382-2334
Signature: Mark Bayley
Date: 2/10/10

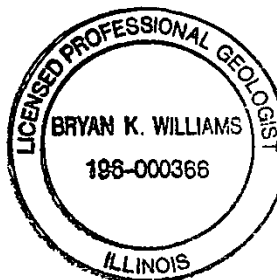
Consultant

Company: Applied Environmental Tech., Inc.
Contact: Bryan Williams
Address: P.O. Box 303
City: Carmi
State: IL
ZIP Code: 62821
Phone: (618) 382-8232
Signature: Bryan Williams
Date: 2/10/10

Licensed Professional Engineer or Geologist

L.P.E. or L.P.G. Seal

Name: Bryan Williams
Company: Applied Environmental Tech., Inc
Address: P.O. Box 303
City: Carmi
State: IL
ZIP Code: 62821
Phone: (618) 382-8232
Ill. Registration No.: 196.000366
License Expiration Date: 3/31/2011
Signature: Bryan Williams
Date: 2/10/10



RECEIVED
FEB 16 2010
IEPA/BOL

**I.E.M.A. INCIDENT NO. H-20091397
45-DAY REPORT ADDENDUM**

ADDITIONAL INFORMATION

D. SITE INFORMATION

1. NATURE AND QUANTITY OF RELEASE:

During a subsurface investigation performed on December 16th, 2009 at Maier's Grocery in Crossville, Illinois, evidence of a release was observed. Odorous and discolored soil was discovered in samples recovered from a boring advanced adjacent to the tank pit. As required by law, the Illinois Emergency Management Agency (IEMA) was notified of the release within the required 24-hour period and the site was assigned Incident Number H-20091397. Analytical testing indicated that BTEX, MTBE and Lead TCLP were above remediation objectives.

Two (2) ten thousand (10,000) gallon gasoline underground storage tanks (UST's) were present at the facility. All product was removed from the tanks. The release was determined to be the result of holes in the underground storage tanks. Under permit No. 00007-2010REM, the UST's were removed on January 27th, 2010. Please refer to Exhibit C for a copy of the removal permit from the Office of the Illinois State Fire Marshal. Following the removal of the tanks, the cause of the release was definitely confirmed to be the result of visible holes in the UST's. The amount of released fuel was unknown.

2. SITE INVESTIGATION:

a. Surrounding Populations:

The release site is located in Crossville, Illinois (Population: 712; 2000 Census). The setting consists of the Maier's Grocery store and service station. Refer to the Location Map in Exhibit A-1 for the location of the site. Refer to the Site Map in Exhibit A-3 for the position of the UST's, pump islands, dispensers and product supply lines. The area is located at 109 South State Street in an area that is both commercial and residential. North of the site are a public storage facility and the Crossville Fire Department and south of the site is a vacant lot. East of the site are a restaurant, a former service station and an ATV sales store and west of the site are a private residence and a funeral home. The site borders Main Street (Route 14) to the north and Illinois Route 1 to the east.

b. Water Quality:

The City of Carmi supplies the site with water. Water quality is considered as good.

c. Wells in the vicinity:

Water wells within a one-mile radius of the site recorded with the Illinois State Geological Survey (ISGS) and Illinois State Water Survey (ISWS) have been received. The IEPA Source Water Assessment and Protection Program Database has also been researched. Copies of these databases are presented in Exhibit E.

d. Subsurface Soil Conditions:

The release was discovered when a soil boring was advanced adjacent to the tank pit that contained two (2) ten thousand (10,000) gallon gasoline UST's. The boring encountered odorous and discolored greenish-gray silty clay. A subsurface soil investigation will be conducted as part of the Stage I Site Investigation.

e. Location of subsurface sewers:

Refer to Exhibit A-3 for a Site Layout Map illustrating the locations of all known utilities in the area of the site. The location of all utilities has been obtained and provided in this 45-Day Addendum.

f. Climatological Conditions:

Climatological conditions at the site have been inconsistent with historical weather patterns for mid to late winter conditions in southern Illinois. An abnormally high amount of rainfall contributed to a greater than normal amount of groundwater recharge into the abandoned tank and the tank pit prior to the UST removal operation.

g. Land Use:

The subject site is located in a commercial/ residential district of Crossville, Illinois. North of the site are a public storage facility and the Crossville Fire Department and south of the site is a vacant lot. East of the site are a restaurant, a former service station and an ATV sales store and west of the site are a private residence and a funeral home. The site borders Main Street (Route 14) to the north and Illinois Route 1 to the east.

INVESTIGATION FOR RELEASE:

Soil discoloration and odorous material were observed in a soil boring advanced adjacent to the tank pit which contained two (2) 10,000 gallon UST's. A permit to remove the tanks was issued by the Illinois Office of the State Fire Marshal (OSFM) on January 6th 2010. On January 26th, 2010, Jeff Guisewite, Inc. (OSHA certified trackhoe operator, 1910-120 hazardous worksite certification) removed the concrete overlying the tank pit and the product lines. All of the fuel that remained in the product lines was sucked out prior to the removal of the concrete and the fuel/water mixture in the abandoned UST was removed by Consolidated Recycling Company of Troy, Indiana. Please refer to Exhibit D for copies of the receipts for a total of six thousand, four hundred-fifty (6,450) gallons of fuel-laced water. Also, the concrete slab was removed from either side of the dispenser island, both of the old dispensers were removed and most of the concrete beneath each of the old dispensers was saw-cut and removed, as well. All of the concrete that was removed at the site was trucked to a farm field outside of town for use as riprap material in a washout. The tanks were uncovered and the contaminated backfill was removed and loaded onto trucks for disposal at the Veolia landfill in Fairfield, Illinois. Nine (9) loads of contaminated backfill were taken to the landfill on January 26th, 2010 by Jeff Guisewite, Inc. and Carter and Son Trucking, Inc. On January 27th, 2010, Jeff Guisewite, Inc. purged the tanks, tested for LEL (Lower Explosive Levels) and removed, cut and cleaned the tanks. Please refer to Exhibit D for a receipt for the tanks from Lewis Scrap Metal, LLC. Also on January 27th, 2010, eight (8) loads of contaminated backfill were taken to the Veolia landfill in Fairfield, Illinois. On January 28th, 2010, nine (9) loads of

RECEIVED

FEB 16 2010

IEPA/BOL

contaminated soil were removed from the excavation and hauled to the Veolia landfill in Fairfield, Illinois. A total of five hundred, forty-four (544) tons of petroleum-contaminated backfill was manifested to the Veolia landfill in Fairfield, IL.

On January 27th, 2010, subsequent to the removal of the UST's, twenty-six (26) tons of Code L lime was added to the tank pit in order to dewater the excavation before the backfill was manifested to the landfill. This procedure was chosen over the conventional methods as a way of keeping water removal and transportation costs to a minimum. Contaminated water from this area must be transported to Indianapolis, In., Louisville, Ky. or St. Louis, Mo. for disposal. If the maximum amount of backfill removed was exceeded by two to three loads, it is requested that this overage is approved since approximately three (3) feet of contaminated water in the tank pit was remediated by the use of Code L lime, which, mixed with wet sand and water, was manifested to the Veolia landfill. On January 28th, 2010, the excavation was partially backfilled with pea gravel, leveled and prepared for the installation of the new, twelve thousand (12,000) gallon compartmentalized Underground Storage Tank.

As required, soil samples were collected at various depths from the tank pit and beneath the dispensers using the 5035 method, packed in ice and sent to an IEPA certified laboratory for the analysis of BTEX, MTBE, TCLP Lead and Total Lead. The analytical results indicated that various samples collected, following Early Action, from the tank pit, pipe trench, and dispensers were above objectives. Please refer to Exhibit B-2 for the analytical results.

4. FREE PRODUCT INVESTIGATION

During the tank removal, some product (heavy sheen) was observed on the water in the excavation. It did not appear to exceed a depth of one-eighth ($\frac{1}{8}$) inch on the water surface. Code L lime was added to the excavation to remove the product-cut water and the lime and soil mixture was manifested to the Veolia landfill. Following removal, the water and product did not reappear.

5. PREVENTIVE MEASURES:

Product was removed from the leaking underground storage tanks at the site in order to prevent any further release to the environment. The tanks have been removed and the contaminated backfill was excavated and manifested to the landfill.

6. SUBSURFACE STRUCTURES:

All subsurface structures and utilities have been identified and their locations are presented in this 45-Day Addendum Report. Overhead lines provide electric service. The water lines, natural gas lines and sewer lines have been located. Refer to Exhibit A-3 for map illustrating the location of the utilities.

E. OTHER INFORMATION

1. Area map of site and surrounding properties:

Refer to Exhibit A-3 for a map of the site and surrounding properties.

2. Cross section of UST excavation:

Please refer to Exhibit A-4 for a cross section and plan view of the UST excavation.

3. Analytical results:

Please refer to Exhibits B-1 and B-2.

4. Site Map with sample locations:

Please refer to Exhibit B-1 for a map illustrating the sample locations.

5. Soil boring logs:

One boring was advanced adjacent to the tank pit documenting the release. Boring logs will be provided in the Site Investigation Plan, if necessary.

6. Chain of custody forms:

Please refer to Exhibit B-3 for the chain of custody form.

7. Laboratory analytical reports:

Please refer to Exhibit B-3 for the laboratory analytical reports.

8. Laboratory certifications:

All tank pit excavation, dispenser and pipe trench samples were submitted to an IEPA-approved laboratory using a proper chain of custody and accompanied by a laboratory certification document. Please refer to Exhibit B-4 for the laboratory certification.

9. OSFM permit for removal:

Refer to Exhibit C for a copy of the removal permit.

10. Narrative of tank removal, cleaning operations, and waste disposal:

On January 26th, 2010, two (2) ten thousand (10,000) gallon UST's were uncovered in preparation for removal. The fuel in the south tank was removed and the remaining liquid in the tank was pumped into fifty-five (55) gallon drums for disposal. The water and fuel mixture in the north tank was also pumped out prior to the removal of the tank. Lastly, the tanks were purged with a grounded air venturi

and sealed pending removal the following day. Please refer to Exhibit D-3 for the manifest documenting the proper disposal of the fifty-five (55) gallon drums.

On January 27th, 2010, the two (2) UST's were again purged with a grounded air venturi, tested for LEL's, removed, cut, cleaned and disposed of in a proper manner. Five hundred, forty-four (544) tons of petroleum-contaminated backfill was removed and manifested to the landfill on January 26th, 27th and 28th, 2010. Please refer to Exhibit F for photographs of this phase of the remediation.

On January 28th, 2010, the required closure samples were collected and the preparation of the excavation for the new UST and the installation of the new dispensers was commenced by Jorgenson Petroleum Maintenance of Evansville, Indiana.

11. Photographs of UST removal operations:

Please refer to Exhibit F for the photographs of the UST removal operation.

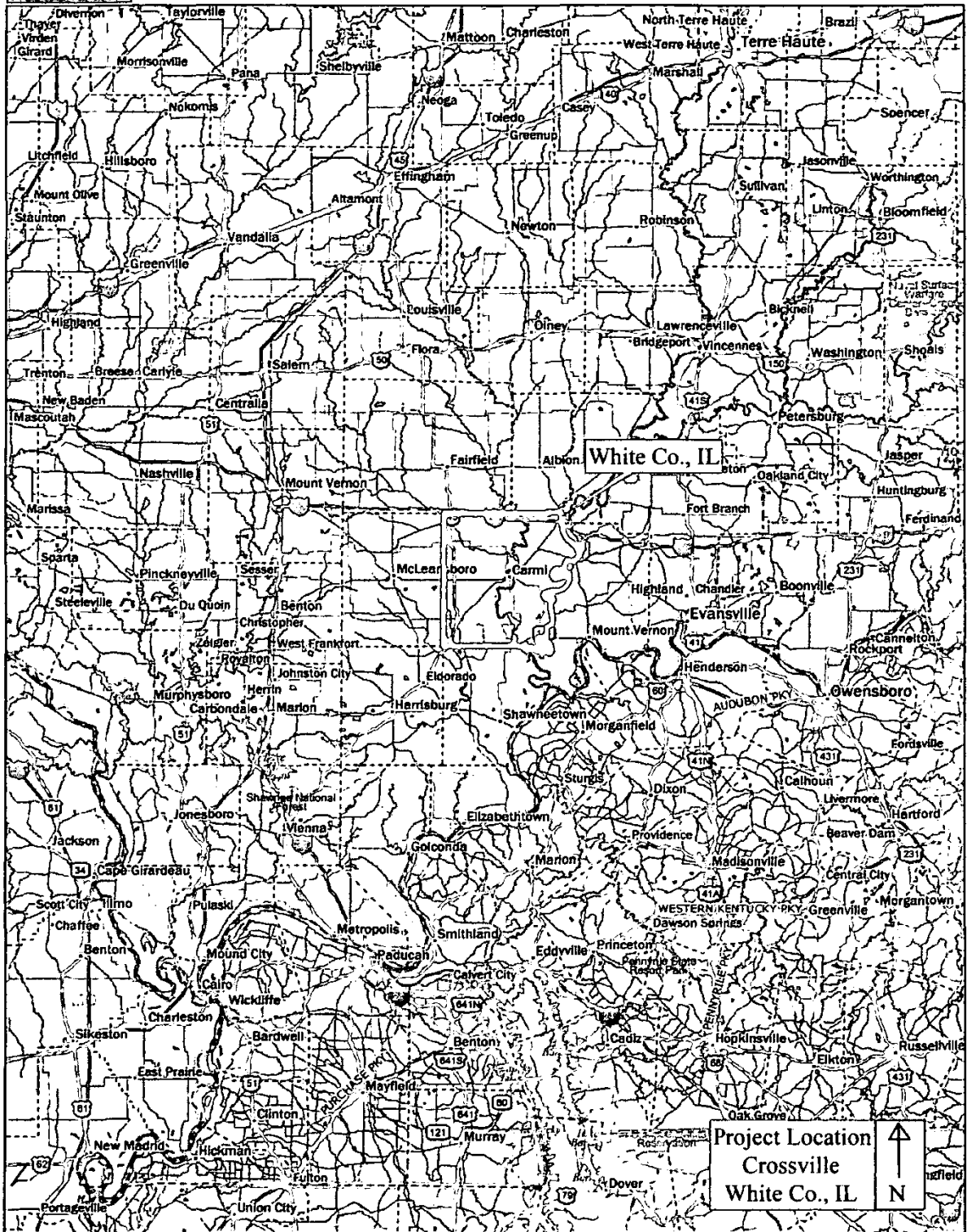
12. Manifest:

Please refer to the Exhibit D-1 for the soil disposal manifests and landfill scale tickets.

F. EARLY ACTION TIER I REMEDIATION OBJECTIVES COMPLIANCE REPORT:

TACO Tier I Commercial soil objectives for this site have not been met; therefore, it appears that a Site Investigation will be required.

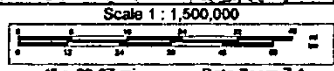
Exhibit A

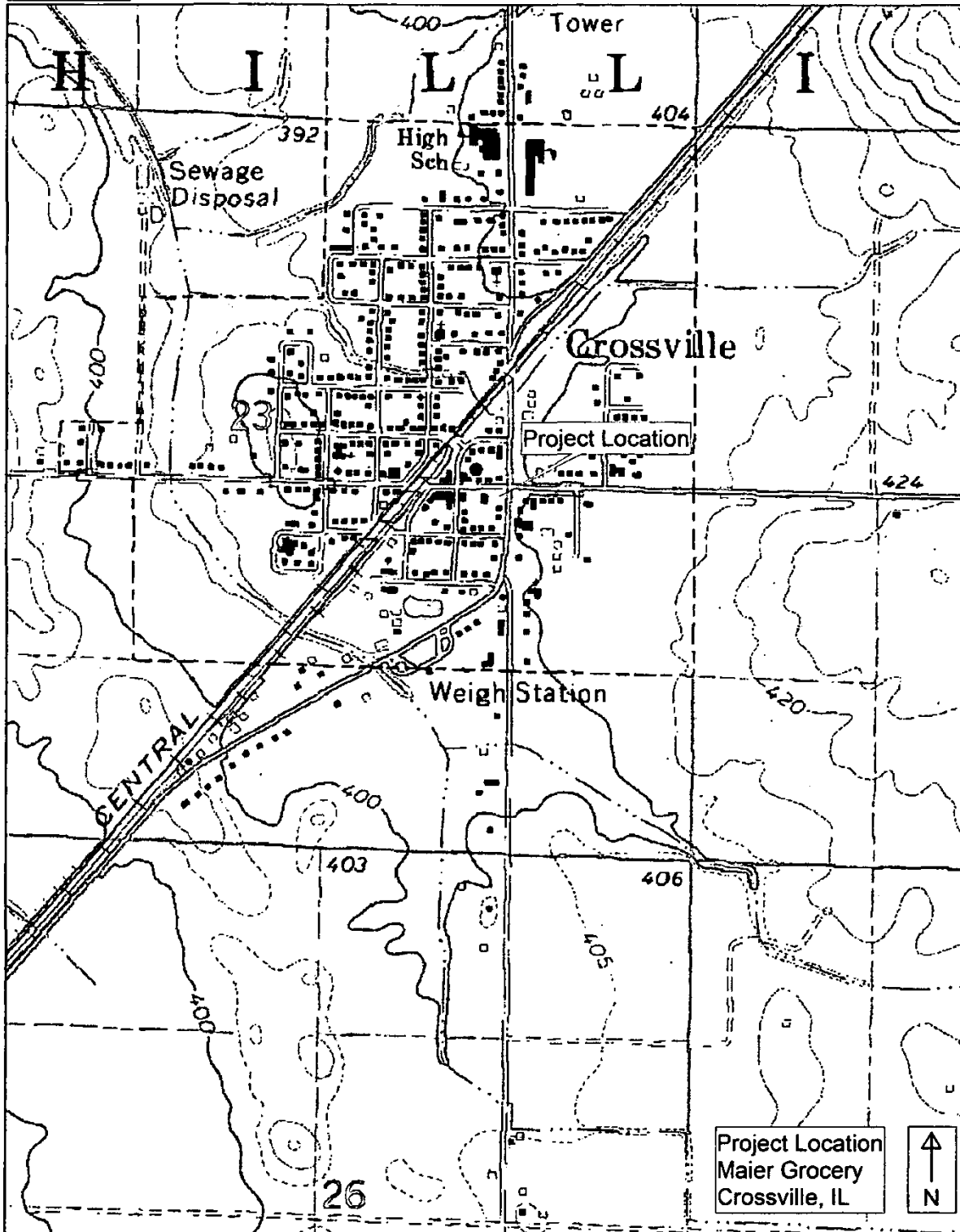


Data use subject to license.

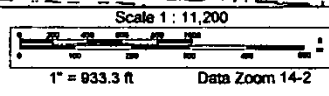
© DeLorme, DeLorme Topo USA® 7.0.

www.delorme.com



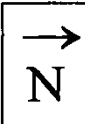
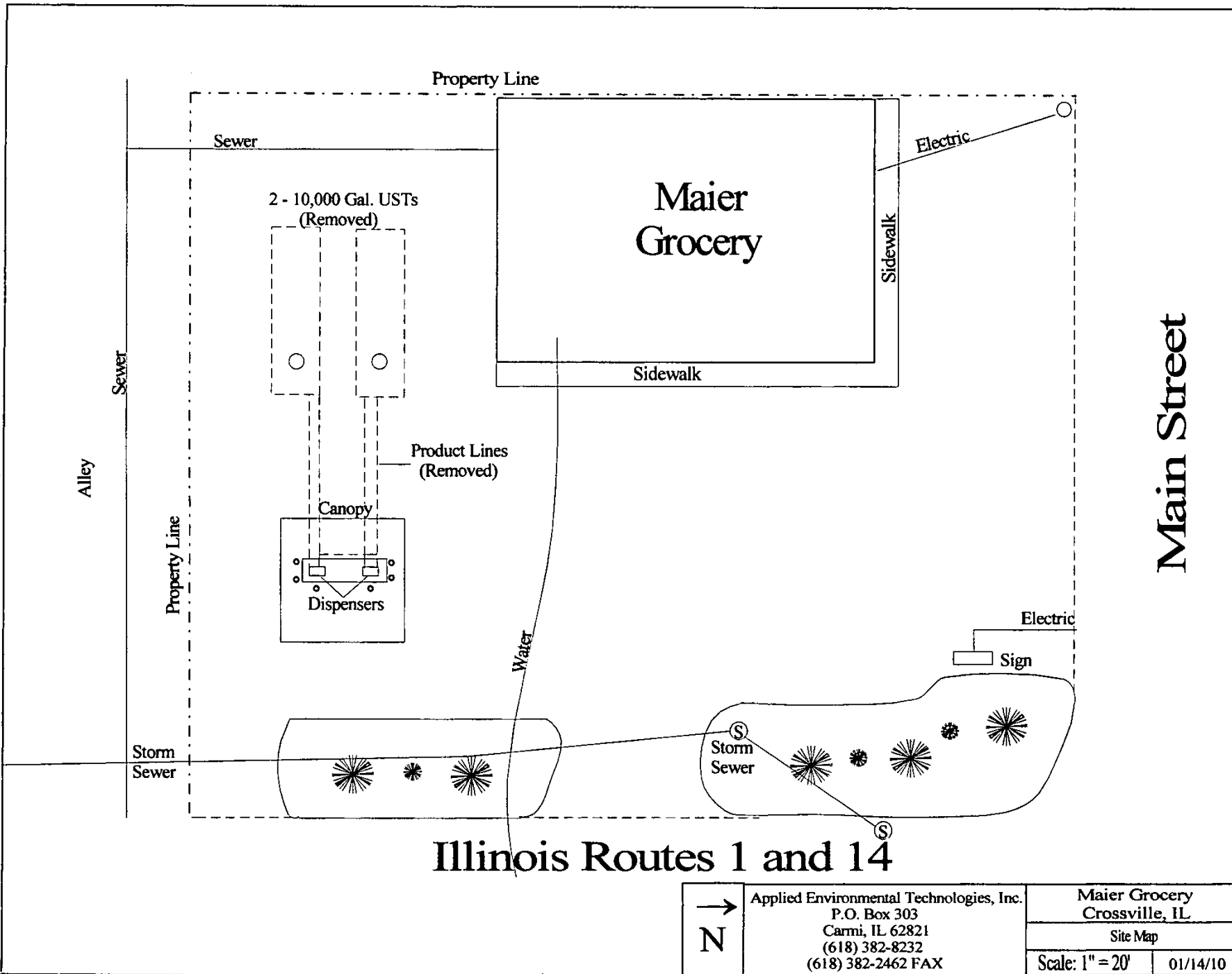


Data use subject to license.
 © 2004 DeLorme. Topo USA® 5.0.
 www.delorme.com



A-3

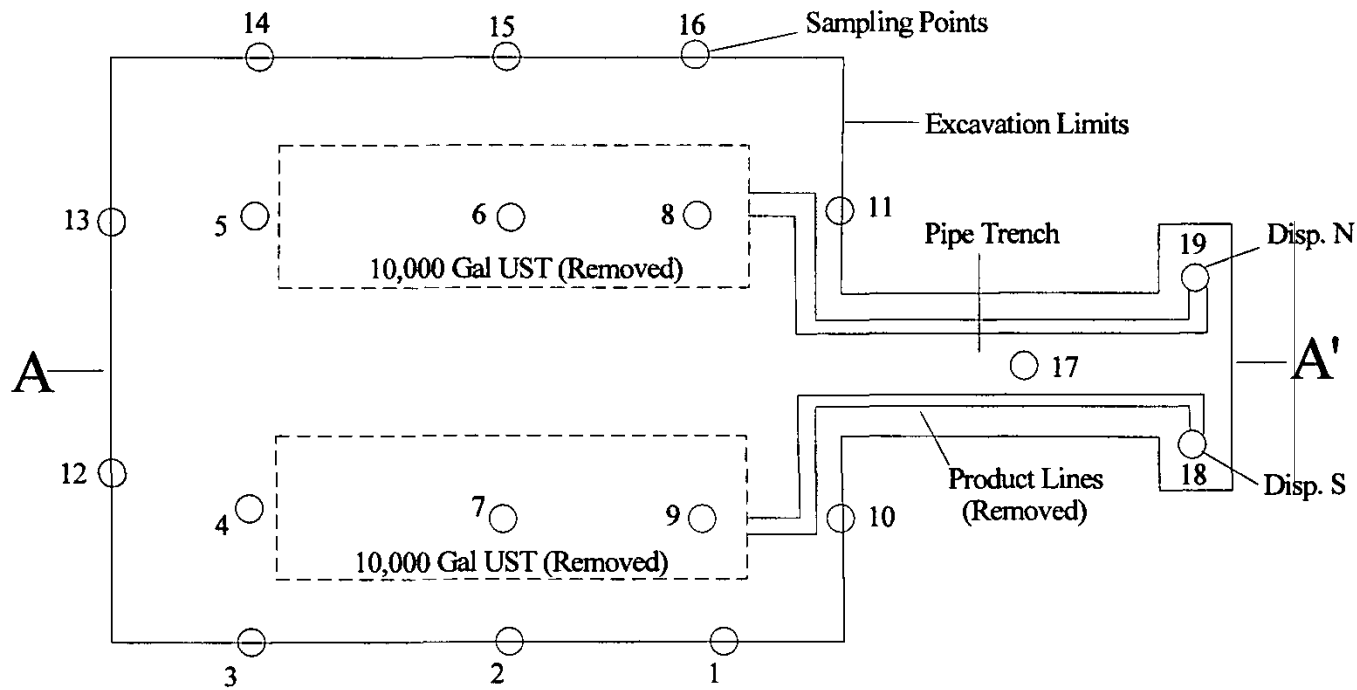
000067



Applied Environmental Technologies, Inc.
 P.O. Box 303
 Carmi, IL 62821
 (618) 382-8232
 (618) 382-2462 FAX

Maier Grocery Crossville, IL	
Site Map	
Scale: 1" = 20'	01/14/10

A-4



Applied Environmental Technologies, Inc.
P.O. Box 303
Carmi, IL 62821
(618) 382-8232
(618) 382-2462 FAX

Maier Grocery Crossville, IL	
Plan View	02/09/10
Scale: 1" = 10'	

000068

Exhibit B

Maier's Grocery
2/9/10

Results of Soil Sample Analyses BTEX, MTBE and PNA's.

Analyte	Ingestion Objective	Inhalation Objective	Migration to GW Objective	No. 1 6 FT	No. 2 6 FT	No. 3 6 FT	No. 4 6 FT	No. 5 13 FT	No. 6 13 FT	No. 7 13 FT	No. 8 13 FT	No. 9 13 FT	No. 10 6 FT	No. 11 6 FT
Date Sampled				1/28/10	1/28/10	1/28/10	1/28/10	1/28/10	1/28/10	1/28/10	1/28/10	1/28/10	1/28/10	1/28/10
Lead	400 (k)			10	6.3	19	11	12	7.1	8.5	14	10	16	8.7
TCLP Extraction: Lead			0.0075	0.026	0.019	0.016	<0.0075	<0.0075	<0.0075	<0.011	0.030	<0.0075	0.023	0.018
BTEX														
Benzene	12	0.8	0.03	0.0052	0.0074	0.0055	0.0032	0.0027	0.0017	0.0072	0.016	<0.00032	0.032	1.9
Toluene	16,000	650	12	0.011	0.011	0.051	0.0080	0.0029	0.0025	<0.0012	<0.0012	<0.0012	0.021	<2.1
Ethylbenzene	7,800	400	13	0.0046	0.0042	0.011	0.0014	0.00046	0.00041	<0.00023	<0.00023	<0.00023	0.046	20
Xylenes (Total)	160,000	410	150	0.0097	0.0091	0.051	0.0068	0.0024	0.0021	<0.00046	<0.00046	<0.00046	0.16	95
MTBE														
MTBE	780	8,800	0.32	0.00062	<0.00028	<0.00028	<0.00028	0.0067	0.00072	0.0040	0.0025	0.0022	0.0079	<0.47

IEPA TACO Tier I Soil Remediation Objectives for Residential Properties. All results given in mg / kg.

(k) A preliminary remediation goal of 400 mg/kg has been set for lead based on Revised Interim Soil Lead Guidance for CERCLA sites and RCRA Corrective Action Facilities, OSWER Directive #9355.4-12.

Results of Soil Sample Analyses BTEX, MTBE and PNA's.

Analyte	Ingestion Objective	Inhalation Objective	Migration to GW Objective	No. 12 6 FT	No. 13 6 FT	No. 14 6 FT	No. 15 6 FT	No. 16 6 FT	No. 17 Pipe Trench 3 FT	No. 18 South Dispenser 3 FT	No. 19 North Dispenser 3 FT			
Date Sampled				1/28/10	1/28/10	1/28/10	1/28/10	1/28/10	1/28/10	1/28/10	1/28/10			
Lead	400 (k)			10	15	13	12	12	17	16	15			
TCLP Extraction: Lead			0.0075	0.018	0.020	0.0088	0.0084	0.0089	0.024	0.012	0.019			
BTEX														
Benzene	12	0.8	0.03	<0.00032	0.098	<0.00032	0.00090	0.00095	0.026	0.037	0.11			
Toluene	16,000	650	12	<0.0012	<0.048	<0.0012	<0.0012	0.0030	0.071	0.0032	0.049			
Ethylbenzene	7,800	400	13	<0.00023	<0.0090	<0.00023	<0.00023	0.0019	0.024	0.0032	0.019			
Xylenes (Total)	160,000	410	150	0.00046	<0.018	<0.00046	<0.00046	0.010	0.10	0.032	0.077			
MTBE														
MTBE	780	8,800	0.32	0.00028	<0.011	<0.00028	<0.00028	<0.00028	<0.00028	<0.00028	<0.00028			

IEPA TACO Tier I Soil Remediation Objectives for Residential Properties. All results given in mg / kg.

(k) A preliminary remediation goal of 400 mg/kg has been set for lead based on Revised Interim Soil Lead Guidance for CERCLA sites and RCRA Corrective Action Facilities, OSWER Directive #9355.4-12.



YOUR LAB OF CHOICE

12065 Lebanon Rd.
Mt. Juliet, TN 37122
(615) 756-5858
1-800-767-5859
Fax (615) 756-5859

Tax I.D. 62-0814289

Est. 1970

Mr. Bryan Williams
Applied Environmental Technologies, Inc.
PO Box 303

Carmi, IL 62821

Report Summary
Monday February 08, 2010
Report Number: L442823
Samples Received: 01/30/10
Client Project: MAIERS
Description: Maiers Grocery

The analytical results in this report are based upon information supplied by you, the client, and are for your exclusive use. If you have any questions regarding this data package, please do not hesitate to call.

Entire Report Reviewed By:


Craig Cothron, ESC Representative

Laboratory Certification Numbers

A2LA - 1461-01, AIHA - 100789, AL - 40660, CA - I-2327, CT - PH-0197, FL - E87487
GA - 923, IN - C-TN-01, KY - 90010, KYUST - 0016, NC - ENV375, DW21704, ND - R-140
NJ - TN002, NJ NELAP - TN002, SC - 84004, TN - 2006, VA - 00109, WV - 233
AZ - 0612, MN - 047-999-395, NY - 11742, WI - 998093910

Accreditation is only applicable to the test methods specified on each scope of accreditation held by ESC Lab Sciences.

This report may not be reproduced, except in full, without written approval from Environmental Science Corp.
Where applicable, sampling conducted by ESC is performed per guidance provided
in laboratory standard operating procedures: 060302, 060303, and 060304.

38 Samples Reported: 02/08/10 11:11 Printed: 02/08/10 13:39
Page 1 of 41



YOUR LAB OF CHOICE

12065 Lebaron Rd.
 Mt. Juliet, TN 37122
 (615) 758-5858
 1-800-767-5859
 Fax: (615) 758-5859

Tax I.D. 62-0814289
 Est. 1970

REPORT OF ANALYSIS

February 08, 2010

Mr. Bryan Williams
 Applied Environmental Technologies,
 PO Box 303
 Carmi, IL 62821

ESC Sample # : L442823-01

Date Received : January 30, 2010
 Description : Maiers Grocery

Site ID :

Sample ID : NO.1 6FT

Project # : MAIERS

Collected By : B. Williams
 Collection Date : 01/28/10 11:20

Parameter	Dry Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
Total Solids	80.4			%		2540G	02/03/10	1
Lead	10.	0.090	0.31	mg/kg		6010B	02/04/10	1
Benzene	0.0052	0.00032	0.0012	mg/kg		8260B	02/04/10	1
Toluene	0.011	0.0012	0.0062	mg/kg		8260B	02/04/10	1
Ethylbenzene	0.0046	0.00023	0.0012	mg/kg		8260B	02/04/10	1
Total Xylenes	0.0097	0.00046	0.0037	mg/kg		8260B	02/04/10	1
Methyl tert-butyl ether	0.00062	0.00028	0.0012	mg/kg	J	8260B	02/04/10	1
Surrogate Recovery								
Toluene-d8	98.9			% Rec.		8260B	02/04/10	1
Dibromofluoromethane	104.			% Rec.		8260B	02/04/10	1
4-Bromofluorobenzene	102.			% Rec.		8260B	02/04/10	1

Results listed are dry weight basis.
 U = ND (Not Detected)
 MDL = Minimum Detection Limit = LOD
 RDL = Reported Detection Limit = LOQ = PQL = EQL
 Note:

This report shall not be reproduced, except in full, without the written approval from ESC.
 The reported analytical results relate only to the sample submitted
 Reported: 02/08/10 11:11 Printed: 02/08/10 13:40



YOUR LAB OF CHOICE

12065 Lebanon Rd.
 Mt. Juliet, TN 37122
 (615) 758-5859
 1-800-767-5859
 Fax (615) 758-5859

Tax I.D. 62-0214289

Est. 1970

REPORT OF ANALYSIS

February 08, 2010

Mr. Bryan Williams
 Applied Environmental Technologies,
 PO Box 303
 Carmi, IL 62821

ESC Sample # : I442823-02

Date Received : January 30, 2010
 Description : Maiers Grocery
 Sample ID : NO.2 6FT
 Collected By : B. Williams
 Collection Date : 01/28/10 11:30

site ID :
 Project # : MAIERS

Parameter	Dry Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
Total Solids	78.8			%		2540G	02/03/10	1
Lead	6.3	0.090	0.32	mg/kg		6010B	02/04/10	1
Benzene	0.0074	0.00032	0.0013	mg/kg		8260B	02/03/10	1
Toluene	0.011	0.0012	0.0063	mg/kg		8260B	02/03/10	1
Ethylbenzene	0.0042	0.00023	0.0013	mg/kg		8260B	02/03/10	1
Total Xylenes	0.0091	0.00046	0.0038	mg/kg		8260B	02/03/10	1
Methyl tert-butyl ether	U	0.00028	0.0013	mg/kg		8260B	02/03/10	1
Surrogate Recovery								
Toluene-d8	103.			% Rec.		8260B	02/03/10	1
Dibromofluoromethane	111.			% Rec.		8260B	02/03/10	1
4-Bromofluorobenzene	96.0			% Rec.		8260B	02/03/10	1

Results listed are dry weight basis.
 U = ND (Not Detected)
 MDL = Minimum Detection Limit = LOD
 RDL = Reported Detection Limit = LOQ = PQL = EQL
 Note:

This report shall not be reproduced, except in full, without the written approval from ESC.
 The reported analytical results relate only to the sample submitted
 Reported: 02/08/10 11:11 Printed: 02/08/10 13:40



YOUR LAB OF CHOICE

12065 Lebanon Rd.
 Mt. Juliet, TN 37122
 (615) 758-5858
 1-800-767-5859
 Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Mr. Bryan Williams
 Applied Environmental Technologies,
 PO Box 303
 Carmi, IL 62821

February 08, 2010

Date Received : January 30, 2010
 Description : Maiers Grocery
 Sample ID : NO.3 6FT
 Collected By : B. Williams
 Collection Date : 01/28/10 11:40

ESC Sample # : L442823-03

Site ID :

Project # : MAIERS

Parameter	Dry Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
Total Solids	79.8			%		2540G	02/03/10	1
Lead	19.	0.090	0.31	mg/kg		6010B	02/04/10	1
Benzene	0.0055	0.00032	0.0012	mg/kg		8260B	02/03/10	1
Toluene	0.051	0.0012	0.0063	mg/kg		8260B	02/03/10	1
Ethylbenzene	0.011	0.00023	0.0012	mg/kg		8260B	02/03/10	1
Total Xylenes	0.051	0.00046	0.0038	mg/kg		8260B	02/03/10	1
Methyl tert-butyl ether	U	0.00028	0.0012	mg/kg		8260B	02/03/10	1
Surrogate Recovery								
Toluene-d8	101.			% Rec.		8260B	02/03/10	1
Dibromofluoromethane	114.			% Rec.		8260B	02/03/10	1
4-Bromofluorobenzene	92.6			% Rec.		8260B	02/03/10	1

Results listed are dry weight basis.

U = ND (Not Detected)

MDL = Minimum Detection Limit = LOD

RDL = Reported Detection Limit = LOQ = PQL = EQL

Note:

This report shall not be reproduced, except in full, without the written approval from ESC.

The reported analytical results relate only to the sample submitted

Reported: 02/08/10 11:11 Printed: 02/08/10 13:40



12065 Lebanon Rd.
 Mt. Juliet, TN 37122
 (615) 758-5859
 1-800-767-5859
 Fax (615) 758-5859

Tax I.D. 62-0814289
 Est. 1970

REPORT OF ANALYSIS

Mr. Bryan Williams
 Applied Environmental Technologies,
 PO Box 303
 Carmi, IL 62821

February 08, 2010

Date Received : January 30, 2010
 Description : Maiers Grocery
 Sample ID : NO.4 6FT
 Collected By : B. Williams
 Collection Date : 01/28/10 11:45

ESC Sample # : L442823-04

Site ID :

Project # : MAIERS

Parameter	Dry Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
Total Solids	80.3			%		2540G	02/03/10	1
Lead	11.	0.090	0.31	mg/kg		6010B	02/04/10	1
Benzene	0.0032	0.00032	0.0012	mg/kg		8260B	02/03/10	1
Toluene	0.0080	0.0012	0.0062	mg/kg		8260B	02/03/10	1
Ethylbenzene	0.0014	0.00023	0.0012	mg/kg		8260B	02/03/10	1
Total Xylenes	0.0068	0.00046	0.0037	mg/kg		8260B	02/03/10	1
Methyl tert-butyl ether	U	0.00028	0.0012	mg/kg		8260B	02/03/10	1
Surrogate Recovery								
Toluene-d8	102.			% Rec.		8260B	02/03/10	1
Dibromofluoromethane	113.			% Rec.		8260B	02/03/10	1
4-Bromofluorobenzene	96.5			% Rec.		8260B	02/03/10	1

Results listed are dry weight basis.
 U = ND (Not Detected)
 MDL = Minimum Detection Limit = LOD
 RDL = Reported Detection Limit = LOQ = PQL = EQL
 Note:

This report shall not be reproduced, except in full, without the written approval from ESC.
 The reported analytical results relate only to the sample submitted
 Reported: 02/08/10 11:11 Printed: 02/08/10 13:40



12065 Lebanon Rd.
Mt. Juliet, TN 37122
(615) 758-5858
1-800-767-5859
Fax (615) 758-5853

Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Mr. Bryan Williams
Applied Environmental Technologies,
PO Box 303
Carmi, IL 62821

February 08, 2010

Date Received : January 30, 2010
Description : Maiers Grocery
Sample ID : NO.5 13FT
Collected By : B. Williams
Collection Date : 01/28/10 11:50

ESC Sample # : L442823-05

Site ID :

Project # : MAIERS

Parameter	Dry Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
Total Solids	80.4			%		2540G	02/03/10	1
Lead	12.	0.090	0.31	mg/kg		6010B	02/04/10	1
Benzene	0.0027	0.00032	0.0012	mg/kg		8260B	02/03/10	1
Toluene	0.0029	0.0012	0.0062	mg/kg	J	8260B	02/03/10	1
Ethylbenzene	0.00046	0.00023	0.0012	mg/kg	J	8260B	02/03/10	1
Total Xylenes	0.0024	0.00046	0.0037	mg/kg	J	8260B	02/03/10	1
Methyl tert-butyl ether	0.0067	0.00028	0.0012	mg/kg		8260B	02/03/10	1
Surrogate Recovery								
Toluene-d8	102.			% Rec.		8260B	02/03/10	1
Dibromofluoromethane	112.			% Rec.		8260B	02/03/10	1
4-Bromofluorobenzene	97.4			% Rec.		8260B	02/03/10	1

Results listed are dry weight basis.

U = ND (Not Detected)

MDL = Minimum Detection Limit = LOD

RDL = Reported Detection Limit = LOQ = PQL = EQL

Note:

This report shall not be reproduced, except in full, without the written approval from ESC.

The reported analytical results relate only to the sample submitted

Reported: 02/08/10 11:11 Printed: 02/08/10 13:40



12065 Lebanon Rd.
 Mt. Juliet, TN 37122
 (615) 756-5858
 1-800-767-5859
 Fax (615) 756-5859

Tax I.D. 62-0814289
 Est. 1970

REPORT OF ANALYSIS

Mr. Bryan Williams
 Applied Environmental Technologies,
 PO Box 303
 Carmi, IL 62821

February 08, 2010

Date Received : January 30, 2010
 Description : Maiers Grocery
 Sample ID : NO.6 13FT
 Collected By : B. Williams
 Collection Date : 01/28/10 11:55

ESC Sample # : L442823-06
 Site ID :
 Project # : MAIERS

Parameter	Dry Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
Total Solids	80.4			%		2540G	02/03/10	1
Lead	7.1	0.090	0.31	mg/kg		6010B	02/04/10	1
Benzene	0.0017	0.00032	0.0012	mg/kg		8260B	02/04/10	1
Toluene	0.0025	0.0012	0.0062	mg/kg	J	8260B	02/04/10	1
Ethylbenzene	0.00041	0.00023	0.0012	mg/kg	J	8260B	02/04/10	1
Total Xylenes	0.0021	0.00046	0.0037	mg/kg	J	8260B	02/04/10	1
Methyl tert-butyl ether	0.00072	0.00028	0.0012	mg/kg	J	8260B	02/04/10	1
Surrogate Recovery								
Toluene-d8	101.			% Rec.		8260B	02/04/10	1
Dibromofluoromethane	107.			% Rec.		8260B	02/04/10	1
4-Bromofluorobenzene	105.			% Rec.		8260B	02/04/10	1

Results listed are dry weight basis.
 U = ND (Not Detected)
 MDL = Minimum Detection Limit = LOD
 RDL = Reported Detection Limit = LOQ = PQL = EQL
 Note:

This report shall not be reproduced, except in full, without the written approval from ESC.
 The reported analytical results relate only to the sample submitted
 Reported: 02/08/10 11:11 Printed: 02/08/10 13:40



12065 Lebanon Rd.
 Mt. Juliet, TN 37122
 (615) 758-5858
 1-800-767-5859
 Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

February 08, 2010

Mr. Bryan Williams
 Applied Environmental Technologies,
 PO Box 303
 Carmi, IL 62821

ESC Sample # : L442823-07

Date Received : January 30, 2010
 Description : Maiers Grocery

Site ID :

Sample ID : NO.7 13FT

Project # : MAIERS

Collected By : B. Williams
 Collection Date : 01/28/10 12:00

Parameter	Dry Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
Total Solids	80.0			%		2540G	02/03/10	1
Lead	8.5	0.090	0.31	mg/kg		6010B	02/04/10	1
Benzene	0.0072	0.00032	0.0012	mg/kg		8260B	02/04/10	1
Toluene	U	0.0012	0.0062	mg/kg		8260B	02/04/10	1
Ethylbenzene	U	0.00023	0.0012	mg/kg		8260B	02/04/10	1
Total Xylenes	U	0.00046	0.0038	mg/kg		8260B	02/04/10	1
Methyl tert-butyl ether	0.0040	0.00028	0.0012	mg/kg		8260B	02/04/10	1
Surrogate Recovery								
Toluene-d8	101.			% Rec.		8260B	02/04/10	1
Dibromofluoromethane	113.			% Rec.		8260B	02/04/10	1
4-Bromofluorobenzene	100.			% Rec.		8260B	02/04/10	1

Results listed are dry weight basis.

U = ND (Not Detected)

MDL = Minimum Detection Limit = LOD

RDL = Reported Detection Limit = LOQ = PQL = EQL

Note:

This report shall not be reproduced, except in full, without the written approval from ESC.

The reported analytical results relate only to the sample submitted

Reported: 02/08/10 11:11 Printed: 02/08/10 13:40



12065 Lebanon Rd.
Mt. Juliet, TN 37122
(615) 758-5958
1-800-767-5859
Fax (615) 758-5859

Tax I.D. 62-0814289
Est. 1970

REPORT OF ANALYSIS

Mr. Bryan Williams
Applied Environmental Technologies,
PO Box 303
Carmi, IL 62821

February 08, 2010

Date Received : January 30, 2010
Description : Maiers Grocery
Sample ID : NO.8 13FT
Collected By : B. Williams
Collection Date : 01/28/10 12:05

ESC Sample # : L442823-08
Site ID :
Project # : MAIERS

Parameter	Dry Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
Total Solids	80.5			%		2540G	02/03/10	1
Lead	14.	0.090	0.31	mg/kg		6010B	02/04/10	1
Benzene	0.016	0.00032	0.0012	mg/kg		8260B	02/04/10	1
Toluene	U	0.0012	0.0062	mg/kg		8260B	02/04/10	1
Ethylbenzene	U	0.00023	0.0012	mg/kg		8260B	02/04/10	1
Total Xylenes	U	0.00046	0.0037	mg/kg		8260B	02/04/10	1
Methyl tert-butyl ether	0.0025	0.00028	0.0012	mg/kg		8260B	02/04/10	1
Surrogate Recovery								
Toluene-d8	103.			% Rec.		8260B	02/04/10	1
Dibromofluoromethane	112.			% Rec.		8260B	02/04/10	1
4-Bromofluorobenzene	103.			% Rec.		8260B	02/04/10	1

Results listed are dry weight basis.
U = ND (Not Detected)
MDL = Minimum Detection Limit = LOD
RDL = Reported Detection Limit = LOQ = PQL = EQL
Note:

This report shall not be reproduced, except in full, without the written approval from ESC.
The reported analytical results relate only to the sample submitted
Reported: 02/08/10 11:11 Printed: 02/08/10 13:40



12065 Lebanon Rd.
 Mt. Juliet, TN 37122
 (615) 756-5858
 1-800-767-5859
 Fax (615) 756-5259
 Tax I.D. 62-0814289
 Est. 1970

REPORT OF ANALYSIS

Mr. Bryan Williams
 Applied Environmental Technologies,
 PO Box 303
 Carmi, IL 62821

February 08, 2010

Date Received : January 30, 2010
 Description : Maiers Grocery
 Sample ID : NO.9 13FT
 Collected By : B. Williams
 Collection Date : 01/28/10 12:10

ESC Sample # : L442823-09
 Site ID :
 Project # : MAIERS

Parameter	Dry Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
Total Solids	80.7			%		2540G	02/03/10	1
Lead	10.	0.090	0.31	mg/kg		6010B	02/04/10	1
Benzene	U	0.00032	0.0012	mg/kg		8260B	02/04/10	1
Toluene	U	0.0012	0.0062	mg/kg		8260B	02/04/10	1
Ethylbenzene	U	0.00023	0.0012	mg/kg		8260B	02/04/10	1
Total Xylenes	U	0.00046	0.0037	mg/kg		8260B	02/04/10	1
Methyl tert-butyl ether	0.0022	0.00028	0.0012	mg/kg		8260B	02/04/10	1
Surrogate Recovery								
Toluene-d8	101.			% Rec.		8260B	02/04/10	1
Dibromofluoromethane	110.			% Rec.		8260B	02/04/10	1
4-Bromofluorobenzene	105.			% Rec.		8260B	02/04/10	1

Results listed are dry weight basis.

U = ND (Not Detected)

MDL = Minimum Detection Limit = LOD

RDL = Reported Detection Limit = LOQ = PQL = EQL

Note:

This report shall not be reproduced, except in full, without the written approval from ESC.

The reported analytical results relate only to the sample submitted

Reported: 02/08/10 11:11 Printed: 02/08/10 13:40



12065 Lebanon Rd.
 Mt. Juliet, TN 37122
 (615) 756-5859
 1-800-767-5859
 Fax (615) 756-5859

Tax I.D. 62-0814289
 Est. 1970

REPORT OF ANALYSIS

February 08, 2010

Mr. Bryan Williams
 Applied Environmental Technologies,
 PO Box 303
 Carmi, IL 62821

Date Received : January 30, 2010
 Description : Maiers Grocery
 Sample ID : NO.10 6FT
 Collected By : B. Williams
 Collection Date : 01/28/10 13:10

ESC Sample # : L442823-10
 Site ID :
 Project # : MAIERS

Parameter	Dry Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
Total Solids	81.3			%		2540G	02/03/10	1
Lead	16.	0.090	0.31	mg/kg		6010B	02/04/10	1
Benzene	0.032	0.00032	0.0012	mg/kg		8260B	02/05/10	1
Toluene	0.021	0.0012	0.0062	mg/kg		8260B	02/05/10	1
Ethylbenzene	0.046	0.0076	0.041	mg/kg		8260B	02/06/10	33.5
Total Xylenes	0.16	0.015	0.12	mg/kg		8260B	02/06/10	33.5
Methyl tert-butyl ether	0.0079	0.00028	0.0012	mg/kg		8260B	02/05/10	1
Surrogate Recovery								
Toluene-d8	98.1			% Rec.		8260B	02/05/10	1
Dibromofluoromethane	103.			% Rec.		8260B	02/05/10	1
4-Bromofluorobenzene	105.			% Rec.		8260B	02/05/10	1

Results listed are dry weight basis.
 U = ND (Not Detected)
 MDL = Minimum Detection Limit = LOD
 RDL = Reported Detection Limit = LOQ = PQL = EQL

Note:
 This report shall not be reproduced, except in full, without the written approval from ESC.
 The reported analytical results relate only to the sample submitted
 Reported: 02/08/10 11:11 Printed: 02/08/10 13:40



L.A.B S.C.I.E.N.C.E.S

YOUR LAB OF CHOICE

12065 Lebanon Rd.
Mt. Juliet, TN 37122
(615) 758-5858
1-800-767-5859
Fax (615) 758-5259

Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

February 08, 2010

Mr. Bryan Williams
Applied Environmental Technologies,
PO Box 303
Carmi, IL 62821

ESC Sample # : L442823-11

Date Received : January 30, 2010
Description : Maiers Grocery

Site ID :

Sample ID : NO.11 6FT

Project # : MAIERS

Collected By : B. Williams
Collection Date : 01/28/10 13:20

Parameter	Dry Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
Total Solids	79.0			%		2540G	02/03/10	1
Lead	8.7	0.090	0.32	mg/kg		6010B	02/04/10	1
Benzene	1.9	0.55	2.2	mg/kg	J	8260B	02/06/10	1700
Toluene	U	2.1	11.	mg/kg		8260B	02/06/10	1700
Ethylbenzene	20.	0.38	2.2	mg/kg		8260B	02/06/10	1700
Total Xylenes	95.	0.78	6.4	mg/kg		8260B	02/06/10	1700
Methyl tert-butyl ether	U	0.47	2.2	mg/kg		8260B	02/06/10	1700
Surrogate Recovery								
Toluene-d8	103.			% Rec.		8260B	02/06/10	1700
Dibromofluoromethane	117.			% Rec.		8260B	02/06/10	1700
4-Bromofluorobenzene	93.8			% Rec.		8260B	02/06/10	1700

Results listed are dry weight basis.

U = ND (Not Detected)

MDL = Minimum Detection Limit = LOD

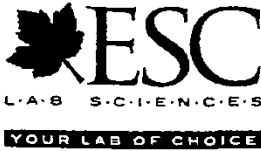
RDL = Reported Detection Limit = LOQ = PQL = EQL

Note:

This report shall not be reproduced, except in full, without the written approval from ESC.

The reported analytical results relate only to the sample submitted

Reported: 02/08/10 11:11 Printed: 02/08/10 13:40



12065 Lebanon Rd.
 Mt. Juliet, TN 37122
 (615) 758-5858
 1-800-767-5859
 Fax (615) 758-5859

Tax I.D. 62-0814289
 Est. 1970

REPORT OF ANALYSIS

February 08, 2010

Mr. Bryan Williams
 Applied Environmental Technologies,
 PO Box 303
 Carmi, IL 62821

ESC Sample # : L442823-12

Date Received : January 30, 2010
 Description : Maiers Grocery

Site ID :

Sample ID : NO.12 6FT

Project # : MAIERS

Collected By : B. Williams
 Collection Date : 01/28/10 13:35

Parameter	Dry Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
Total Solids	80.2			%		2540G	02/03/10	1
Lead	10.	0.090	0.31	mg/kg		6010B	02/04/10	1
Benzene	U	0.00032	0.0012	mg/kg		8260B	02/08/10	1
Toluene	U	0.0012	0.0062	mg/kg		8260B	02/08/10	1
Ethylbenzene	U	0.00023	0.0012	mg/kg		8260B	02/08/10	1
Total Xylenes	U	0.00046	0.0037	mg/kg		8260B	02/08/10	1
Methyl tert-butyl ether	U	0.00028	0.0012	mg/kg		8260B	02/08/10	1
Surrogate Recovery								
Toluene-d8	100.			% Rec.		8260B	02/08/10	1
Dibromofluoromethane	104.			% Rec.		8260B	02/08/10	1
4-Bromofluorobenzene	114.			% Rec.		8260B	02/08/10	1

Results listed are dry weight basis.
 U = ND (Not Detected)
 MDL = Minimum Detection Limit = LOD
 RDL = Reported Detection Limit = LOQ = PQL = EQL
 Note:

This report shall not be reproduced, except in full, without the written approval from ESC.
 The reported analytical results relate only to the sample submitted
 Reported: 02/08/10 11:11 Printed: 02/08/10 13:40



12065 Lebanon Rd.
 Mt. Juliet, TN 37122
 (615) 756-5858
 1-800-767-5859
 Fax (615) 756-5859

Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

February 08, 2010

Mr. Bryan Williams
 Applied Environmental Technologies,
 PO Box 303
 Carmi, IL 62821

ESC Sample # : L442823-13

Date Received : January 30, 2010
 Description : Maiers Grocery

Site ID :

Sample ID : NO.13 6FT

Project # : MAIERS

Collected By : B. Williams
 Collection Date : 01/29/10 13:40

Parameter	Dry Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
Total Solids	78.7			%		2540G	02/03/10	1
Lead	15.	0.090	0.32	mg/kg		6010B	02/04/10	1
Benzene	0.096	0.013	0.051	mg/kg		8260B	02/08/10	40
Toluene	U	0.048	0.25	mg/kg		8260B	02/08/10	40
Ethylbenzene	U	0.0090	0.051	mg/kg		8260B	02/08/10	40
Total Xylenes	U	0.018	0.15	mg/kg		8260B	02/08/10	40
Methyl tert-butyl ether	U	0.011	0.051	mg/kg		8260B	02/08/10	40
Surrogate Recovery								
Toluene-d8	101.			% Rec.		8260B	02/08/10	40
Dibromofluoromethane	101.			% Rec.		8260B	02/08/10	40
4-Bromofluorobenzene	119.			% Rec.		8260B	02/08/10	40

Results listed are dry weight basis.

U = ND (Not Detected)

MDL = Minimum Detection Limit = LOD

RDL = Reported Detection Limit = LOQ = PQL = EQL

Note:

This report shall not be reproduced, except in full, without the written approval from ESC.

The reported analytical results relate only to the sample submitted

Reported: 02/08/10 11:11 Printed: 02/08/10 13:40



12065 Lebanon Rd.
 Mt. Juliet, TN 37122
 (615) 758-5858
 1-800-767-5859
 Fax (615) 758-5859
 Tax I.D. 62-0814289
 Est. 1970

REPORT OF ANALYSIS

Mr. Bryan Williams
 Applied Environmental Technologies,
 PO Box 303
 Carmi, IL 62821

February 08, 2010

Date Received : January 30, 2010
 Description : Maiers Grocery
 Sample ID : NO.14 6FT
 Collected By : B. Williams
 Collection Date : 01/28/10 13:55

ESC Sample # : L442823-14
 Site ID :
 Project # : MAIERS

Parameter	Dry Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
Total Solids	78.2			%		2540G	02/03/10	1
Lead	13.	0.090	0.32	mg/kg		6010B	02/04/10	1
Benzene	U	0.00032	0.0013	mg/kg		8260B	02/08/10	1
Toluene	U	0.0012	0.0064	mg/kg		8260B	02/08/10	1
Ethylbenzene	U	0.00023	0.0013	mg/kg		8260B	02/08/10	1
Total Xylenes	U	0.00046	0.0038	mg/kg		8260E	02/08/10	1
Methyl tert-butyl ether	U	0.00028	0.0013	mg/kg		8260B	02/08/10	1
Surrogate Recovery								
Toluene-d8	100.			% Rec.		8260B	02/08/10	1
Dibromofluoromethane	109.			% Rec.		8260B	02/08/10	1
4-Bromofluorobenzene	107.			% Rec.		8260B	02/08/10	1

Results listed are dry weight basis.
 U = ND (Not Detected)
 MDL = Minimum Detection Limit = LOD
 RDL = Reported Detection Limit = LOQ = PQL = EQL
 Note:

This report shall not be reproduced, except in full, without the written approval from ESC.
 The reported analytical results relate only to the sample submitted
 Reported: 02/08/10 11:11 Printed: 02/08/10 13:40



YOUR LAB OF CHOICE

12065 Lebanon Rd.
Mt. Juliet, TN 37122
(615) 756-5858
1-800-767-5859
Fax (615) 756-5859

Tax I.D. 62-0814289

Est. 1976

REPORT OF ANALYSIS

February 08, 2010

Mr. Bryan Williams
Applied Environmental Technologies,
PO Box 303
Carmi, IL 62821

Date Received : January 30, 2010
Description : Maiers Grocery
Sample ID : NO.15 6FT
Collected By : B. Williams
Collection Date : 01/28/10 14:15

ESC Sample # : L442823-15

Site ID :

Project # : MAIERS

Parameter	Dry Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
Total Solids	80.1			%		2540G	02/03/10	1
Lead	12.	0.090	0.31	mg/kg		6010B	02/04/10	1
Benzene	0.00090	0.00032	0.0012	mg/kg	J	8260B	02/03/10	1
Toluene	U	0.0012	0.0062	mg/kg		8260B	02/03/10	1
Ethylbenzene	U	0.00023	0.0012	mg/kg		8260B	02/03/10	1
Total Xylenes	U	0.00046	0.0037	mg/kg		8260B	02/03/10	1
Methyl tert-butyl ether	U	0.00028	0.0012	mg/kg		8260B	02/03/10	1
Surrogate Recovery								
Toluene-d8	97.7			% Rec.		8260B	02/03/10	1
Dibromofluoromethane	97.7			% Rec.		8260B	02/03/10	1
4-Bromofluorobenzene	94.4			% Rec.		8260B	02/03/10	1

Results listed are dry weight basis.

U = ND (Not Detected)

MDL = Minimum Detection Limit = LOD

RDL = Reported Detection Limit = LOQ = PQL = EQL

Note:

This report shall not be reproduced, except in full, without the written approval from ESC.

The reported analytical results relate only to the sample submitted

Reported: 02/08/10 11:11 Printed: 02/08/10 13:40



12065 Lebanon Rd.
 Mt. Juliet, TN 37122
 (615) 756-5858
 1-800-767-5859
 Fax (615) 756-5859

Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Mr. Bryan Williams
 Applied Environmental Technologies,
 PO Box 303
 Carmi, IL 62821

February 08, 2010

Date Received : January 30, 2010
 Description : Maiers Grocery
 Sample ID : NO.16 6FT
 Collected By : B. Williams
 Collection Date : 01/28/10 14:30

ESC Sample # : L442823-16

Site ID :

Project # : MAIERS

Parameter	Dry Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
Total Solids	77.0			%		2540G	02/03/10	1
Lead	12.	0.090	0.32	mg/kg		6010B	02/03/10	1
Benzene	0.00095	0.00032	0.0013	mg/kg	J	8260B	02/03/10	1
Toluene	0.0030	0.0012	0.0065	mg/kg	J	8260B	02/03/10	1
Ethylbenzene	0.0019	0.00023	0.0013	mg/kg		8260B	02/03/10	1
Total Xylenes	0.010	0.00046	0.0039	mg/kg		8260B	02/03/10	1
Methyl tert-butyl ether	U	0.00028	0.0013	mg/kg		8260B	02/03/10	1
Surrogate Recovery								
Toluene-d8	97.7			% Rec.		8260B	02/03/10	1
Dibromofluoromethane	98.7			% Rec.		8260B	02/03/10	1
4-Bromofluorobenzene	95.6			% Rec.		8260B	02/03/10	1

Results listed are dry weight basis.

U = ND (Not Detected)

MDL = Minimum Detection Limit = LOD

RDL = Reported Detection Limit = LOQ = PQL = EQL

Note:

This report shall not be reproduced, except in full, without the written approval from ESC.

The reported analytical results relate only to the sample submitted

Reported: 02/08/10 11:11 Printed: 02/08/10 13:40



12065 Lebaron Rd.
 Mt. Juliet, TN 37122
 (615) 756-5858
 1-800-767-5859
 Fax (615) 756-5259

Tax I.D. 62-0814289
 Est. 1970

REPORT OF ANALYSIS

February 08, 2010

Mr. Bryan Williams
 Applied Environmental Technologies,
 PO Box 303
 Carmi, IL 62821

ESC Sample # : L442823-17

Date Received : January 30, 2010
 Description : Maiers Grocery

Site ID :

Sample ID : NO.17 PIPE TRENCH 3FT

Project # : MAIERS

Collected By : B. Williams
 Collection Date : 01/28/10 14:45

Parameter	Dry Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
Total Solids	77.7			%		2540G	02/03/10	1
Lead	17.	0.090	0.32	mg/kg		6010B	02/03/10	1
Benzene	0.026	0.00032	0.0013	mg/kg		8260B	02/03/10	1
Toluene	0.071	0.0012	0.0064	mg/kg		8260B	02/03/10	1
Ethylbenzene	0.024	0.00023	0.0013	mg/kg		8260B	02/03/10	1
Total Xylenes	0.10	0.00046	0.0039	mg/kg		8260B	02/03/10	1
Methyl tert-butyl ether	U	0.00028	0.0013	mg/kg		8260B	02/03/10	1
Surrogate Recovery								
Toluene-d8	97.5			% Rec.		8260B	02/03/10	1
Dibromofluoromethane	95.5			% Rec.		8260B	02/03/10	1
4-Bromofluorobenzene	112.			% Rec.		8260B	02/03/10	1

Results listed are dry weight basis.
 U = ND (Not Detected)
 MDL = Minimum Detection Limit = LOD
 RDL = Reported Detection Limit = LOQ = PQL = EQL
 Note:

This report shall not be reproduced, except in full, without the written approval from ESC.
 The reported analytical results relate only to the sample submitted
 Reported: 02/08/10 11:11 Printed: 02/08/10 13:40



YOUR LAB OF CHOICE

12065 Lebanon Rd.
Mt. Juliet, TN 37122
(615) 758-5858
1-800-767-5859
Fax (615) 758-5859

Tax I.D. 62-0814229
Est. 1970

REPORT OF ANALYSIS

February 08, 2010

Mr. Bryan Williams
Applied Environmental Technologies,
PO Box 303
Carmi, IL 62821

ESC Sample # : L442823-18

Date Received : January 30, 2010
Description : Maiers Grocery
Sample ID : NO.18 SOUTH DISPENSER 3FT
Collected By : B. Williams
Collection Date : 01/28/10 15:00

Site ID :
Project # : MAIERS

Table with 9 columns: Parameter, Dry Result, MDL, RDL, Units, Qualifier, Method, Date, Dil. Rows include Total Solids, Lead, Benzene, Toluene, Ethylbenzene, Total Xylenes, Methyl tert-butyl ether, Surrogate Recovery, Toluene-d8, Dibromofluoromethane, 4-Bromofluorobenzene.

Results listed are dry weight basis.
U = ND (Not Detected)
MDL = Minimum Detection Limit = LOD
RDL = Reported Detection Limit = LOQ = PQL = EQL

Note:
This report shall not be reproduced, except in full, without the written approval from ESC.
The reported analytical results relate only to the sample submitted
Reported: 02/08/10 11:11 Printed: 02/08/10 13:40



L.A.S S.C.I.E.N.C.E.S

YOUR LAB OF CHOICE

12065 Lebanon Rd.
Mt. Juliet, TN 37122
(615) 756-5858
1-800-767-5859
Fax (615) 756-5859

Tax I.D. 62-0314289

Est. 1976

REPORT OF ANALYSIS

February 08, 2010

Mr. Bryan Williams
Applied Environmental Technologies,
PO Box 303
Carmi, IL 62821

ESC Sample # : L442823-19

Date Received : January 30, 2010
Description : Maiers Grocery
Sample ID : NO.19 NORTH DISPENSER 3FT
Collected By : B. Williams
Collection Date : 01/28/10 15:15

Site ID :
Project # : MAIERS

Parameter	Dry Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
Total Solids	77.9			%		2540G	02/03/10	1
Lead	15.	0.090	0.32	mg/kg		6010B	02/03/10	1
Benzene	0.11	0.00032	0.0013	mg/kg		8260B	02/03/10	1
Toluene	0.049	0.0012	0.0064	mg/kg		8260B	02/03/10	1
Ethylbenzene	0.019	0.00023	0.0013	mg/kg		8260B	02/03/10	1
Total Xylenes	0.077	0.00046	0.0038	mg/kg		8260B	02/03/10	1
Methyl tert-butyl ether	U	0.00028	0.0013	mg/kg		8260B	02/03/10	1
Surrogate Recovery								
Toluene-d8	94.8			% Rec.		8260B	02/03/10	1
Dibromofluoromethane	92.0			% Rec.		8260B	02/03/10	1
4-Bromofluorobenzene	104.			% Rec.		8260B	02/03/10	1

Results listed are dry weight basis.

U = ND (Not Detected)

MDL = Minimum Detection Limit = LOD

RDL = Reported Detection Limit = LOQ = PQL = EQL

Note:

This report shall not be reproduced, except in full, without the written approval from ESC.

The reported analytical results relate only to the sample submitted

Reported: 02/08/10 11:11 Printed: 02/08/10 13:40



12065 Lebanon Rd.
Mt. Juliet, TN 37122
(615) 758-5858
1-800-767-5859
Fax (615) 758-5259

Tax I.D. 62-0814289
Est. 1970

REPORT OF ANALYSIS

Mr. Bryan Williams
Applied Environmental Technologies,
PO Box 303
Carmi, IL 62821

February 08, 2010

Date Received : January 30, 2010
Description : Maiers Grocery
Sample ID : NO.1 6PT
Collected By : B. Williams
Collection Date : 01/28/10 11:20

ESC Sample # : L442823-21

Site ID :

Project : MAIERS

Parameter	Result	Det. Limit	Units	Limit	Method	Date/Time	By	Dil
TCLP Extraction	-				1311	02/03/10 0930	MVE	1
Lead	0.026	0.0075	mg/l	5.0	6010B	02/04/10 1331	ALT	1

BDL - Below Detection Limit
Det. Limit - Estimated Quantitation Limit (EQL)
Limit - Maximum Contaminant Level as established by the US EPA

Note:
The reported analytical results relate only to the sample submitted.
This report shall not be reproduced, except in full, without the written approval from ESC.

Reported: 02/08/10 11:11 Printed: 02/08/10 13:40



YOUR LAB OF CHOICE

12065 Lebanon Rd.
Mt. Juliet, TN 37122
(615) 758-5858
1-800-767-5859
Fax (615) 758-5859

Tax I.D. 62-0214222

Est. 1970

REPORT OF ANALYSIS

Mr. Bryan Williams
Applied Environmental Technologies,
PO Box 303
Carmi, IL 62821

February 08, 2010

Date Received : January 30, 2010
Description : Maiers Grocery
Sample ID : NO.2 6FT
Collected By : B. Williams
Collection Date : 01/28/10 11:30

ESC Sample # : L442823-22

Site ID :

Project : MAIERS

Parameter	Result	Det. Limit	Units	Limit	Method	Date/Time	By	Dil
TCLP Extraction	-				1311	02/03/10 0930	MVE	1
Lead	0.019	0.0075	mg/l	5.0	6010B	02/04/10 1341	ALT	1

BDL - Below Detection Limit
Det. Limit - Estimated Quantitation Limit(EQL)
Limit - Maximum Contaminant Level as established by the US EPA

Note:

The reported analytical results relate only to the sample submitted.
This report shall not be reproduced, except in full, without the written approval from ESC.

Reported: 02/08/10 11:11 Printed: 02/08/10 13:40



12065 Lebanon Rd.
Mt. Juliet, TN 37122
(615) 758-5859
1-800-767-5859
Fax (615) 758-5859

Tax I.D. 62-0914289
Est. 1970

REPORT OF ANALYSIS

Mr. Bryan Williams
Applied Environmental Technologies,
PO Box 303
Carmi, IL 62821

February 08, 2010

Date Received : January 30, 2010
Description : Maiers Grocery
Sample ID : NO.3 6FT
Collected By : B. Williams
Collection Date : 01/28/10 11:40

ESC Sample # : L442823-23
Site ID :
Project : MAIERS

Parameter	Result	Det. Limit	Units	Limit	Method	Date/Time	By	Dil
TCLP Extraction	-				1311	02/03/10 0930	MVE	1
Lead	0.016	0.0075	mg/l	5.0	6010B	02/04/10 1344	ALT	1

BDL - Below Detection Limit
Det. Limit - Estimated Quantitation Limit(EQL)
Limit - Maximum Contaminant Level as established by the US EPA
Note:
The reported analytical results relate only to the sample submitted.
This report shall not be reproduced, except in full, without the written approval from ESC.
Reported: 02/08/10 11:11 Printed: 02/08/10 13:40



YOUR LAB OF CHOICE

12065 Lebaron Rd.
Mt. Juliet, TN 37122
(615) 758-5858
1-800-767-5859
Fax (615) 758-5859

Tax I.D. 62-0814229
Est. 1975

REPORT OF ANALYSIS

Mr. Bryan Williams
Applied Environmental Technologies,
PO Box 303
Carmi, IL 62821

February 08, 2010

Date Received : January 30, 2010
Description : Maiers Grocery
Sample ID : NO.4 6FT
Collected By : B. Williams
Collection Date : 01/28/10 11:45

ESC Sample # : L442823-24

Site ID :

Project : MAIERS

Parameter	Result	Det. Limit	Units	Limit	Method	Date/Time	By	Dil
TCLP Extraction	-				1311	02/03/10 0930	MVE	1
Lead	BDL	0.0075	mg/l	5.0	6010B	02/04/10 1347	ALT	1

BDL - Below Detection Limit
Det. Limit - Estimated Quantitation Limit(EQL)
Limit - Maximum Contaminant Level as established by the US EPA

Note:
The reported analytical results relate only to the sample submitted.
This report shall not be reproduced, except in full, without the written approval from ESC.

Reported: 02/08/10 11:11 Printed: 02/08/10 13:40



YOUR LAB OF CHOICE

12065 Lebanon Rd.
Mt. Juliet, TN 37122
(615) 759-5858
1-800-767-5859
Fax (615) 758-5859

Tax I.D. 62-0814289
Est. 1970

REPORT OF ANALYSIS

Mr. Bryan Williams
Applied Environmental Technologies,
PO Box 303
Carmi, IL 62821

February 08, 2010

Date Received : January 30, 2010
Description : Maiers Grocery
Sample ID : NO.5 13FT
Collected By : B. Williams
Collection Date : 01/28/10 11:50

ESC Sample # : L442823-25
Site ID :
Project : MAIERS

Parameter	Result	Det. Limit	Units	Limit	Method	Date/Time	By	Dil
TCLP Extraction	-				1311	02/03/10 0930	MVE	1
Lead	BDL	0.0075	mg/l	5.0	6010B	02/04/10 1350	ALT	1

BDL - Below Detection Limit
Det. Limit - Estimated Quantitation Limit(EQL)
Limit - Maximum Contaminant Level as established by the US EPA
Note:
The reported analytical results relate only to the sample submitted.
This report shall not be reproduced, except in full, without the written approval from ESC.
Reported: 02/08/10 11:11 Printed: 02/08/10 13:40



YOUR LAB OF CHOICE

12065 Lebanon Rd.
Mt. Juliet, TN 37122
(615) 758-5858
1-800-767-5859
Fax (615) 758-5859
Tax I.D. 62-0814289
Est. 1970

REPORT OF ANALYSIS

Mr. Bryan Williams
Applied Environmental Technologies,
PO Box 303
Carmi, IL 62821

February 08, 2010

Date Received : January 30, 2010
Description : Maiers Grocery
Sample ID : NO.6 13FT
Collected By : B. Williams
Collection Date : 01/28/10 11:55

ESC Sample # : L442823-26
Site ID :
Project : MAIERS

Parameter	Result	Det. Limit	Units	Limit	Method	Date/Time	By	Dil
TCLP Extraction	-				1311	02/03/10 0930	MVE	1
Lead	BDL	0.0075	mg/l	5.0	6010B	02/04/10 1353	ALT	1

BDL - Below Detection Limit
Det. Limit - Estimated Quantitation Limit(EQL)
Limit - Maximum Contaminant Level as established by the US EPA
Note:
The reported analytical results relate only to the sample submitted.
This report shall not be reproduced, except in full, without the written approval from ESC.
Reported: 02/08/10 11:11 Printed: 02/08/10 13:40



YOUR LAB OF CHOICE

12065 Lebanon Rd.
Mt. Juliet, TN 37122
(615) 756-5858
1-800-767-5859
Fax (615) 756-5859

Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Mr. Bryan Williams
Applied Environmental Technologies,
PO Box 303
Carmi, IL 62821

February 08, 2010

Date Received : January 30, 2010
Description : Maiers Grocery
Sample ID : NO.7 13FT
Collected By : B. Williams
Collection Date : 01/28/10 12:00

ESC Sample # : L442823-27

Site ID :

Project : MAIERS

Parameter	Result	Det. Limit	Units	Limit	Method	Date/Time	By	Dil
TCLP Extraction	-				1311	02/03/10 0930	MVE	1
Lead	0.011	0.0075	mg/l	5.0	6010B	02/04/10 1227	ALT	1

BDL - Below Detection Limit
Det. Limit - Estimated Quantitation Limit(EQL)
Limit - Maximum Contaminant Level as established by the US EPA

Note:
The reported analytical results relate only to the sample submitted.
This report shall not be reproduced, except in full, without the written approval from ESC.

Reported: 02/08/10 11:11 Printed: 02/08/10 13:40



YOUR LAB OF CHOICE

12065 Lebanon Rd.
Mt. Juliet, TN 37122
(615) 755-5858
1-800-767-5859
Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

February 08, 2010

Mr. Bryan Williams
Applied Environmental Technologies,
PO Box 303
Carmi, IL 62821

ESC Sample # : L442823-28

Date Received : January 30, 2010
Description : Maiers Grocery

Site ID :

Sample ID : NO.8 13FT

Project : MAIERS

Collected By : B. Williams
Collection Date : 01/28/10 12:05

Parameter	Result	Det. Limit	Units	Limit	Method	Date/Time	By	Dil
TCLP Extraction	-				1311	02/03/10 0930	MVE	1
Lead	0.030	0.0075	mg/l	5.0	6010B	02/04/10 1506	ALT	1

BDL - Below Detection Limit
Det. Limit - Estimated Quantitation Limit(EQL)
Limit - Maximum Contaminant Level as established by the US EPA

Note:
The reported analytical results relate only to the sample submitted.
This report shall not be reproduced, except in full, without the written approval from ESC.

Reported: 02/08/10 11:11 Printed: 02/08/10 13:40



12065 Lebnon Rd.
Mt. Juliet, TN 37122
(615) 758-5858
1-800-767-5859
Fax (615) 758-5859

Tax I.D. 62-0814282
Est. 1970

REPORT OF ANALYSIS

Mr. Bryan Williams
Applied Environmental Technologies,
PO Box 303
Carmi, IL 62821

February 08, 2010

Date Received : January 30, 2010
Description : Malers Grocery
Sample ID : NO.9 13FT
Collected By : B. Williams
Collection Date : 01/28/10 12:10

ESC Sample # : L442823-29
Site ID :
Project : MAIERS

Parameter	Result	Det. Limit	Units	Limit	Method	Date/Time	By	Dil
TCLP Extraction	-				1311	02/03/10 0930	MVE	1
Lead	BDL	0.0075	mg/l	5.0	6010B	02/04/10 1509	ALT	1

BDL - Below Detection Limit
Det. Limit - Estimated Quantitation Limit(EQL)
Limit - Maximum Contaminant Level as established by the US EPA

Note:
The reported analytical results relate only to the sample submitted.
This report shall not be reproduced, except in full, without the written approval from ESC.

Reported: 02/08/10 11:11 Printed: 02/08/10 13:40



12065 Lebanon Rd.
 Mt. Juliet, TN 37122
 (615) 758-5858
 1-800-767-5859
 Fax (615) 758-5859
 Tax I.D. 62-0814289
 Est. 1970

REPORT OF ANALYSIS

Mr. Bryan Williams
 Applied Environmental Technologies,
 PO Box 303
 Carmi, IL 62821

February 08, 2010

Date Received : January 30, 2010
 Description : Maters Grocery
 Sample ID : NO.10 6FT
 Collected By : B. Williams
 Collection Date : 01/28/10 13:10

ESC Sample # : L442823-30
 Site ID :
 Project : MATERS

Parameter	Result	Det. Limit	Units	Limit	Method	Date/Time	By	Dil
TCLP Extraction	-				1311	02/03/10 0930	MVE	1
Lead	0.023	0.0075	mg/l	5.0	6010B	02/04/10 1512	ALT	1

BDL - Below Detection Limit
 Det. Limit - Estimated Quantitation Limit(EQL)
 Limit - Maximum Contaminant Level as established by the US EPA
 Note:
 The reported analytical results relate only to the sample submitted.
 This report shall not be reproduced, except in full, without the written approval from ESC.
 Reported: 02/08/10 11:11 Printed: 02/08/10 13:40



YOUR LAB OF CHOICE

12065 Lebanon Rd.
Mt. Juliet, TN 37122
(615) 758-5858
1-800-767-5859
Fax (615) 758-5859

Tax I.D. 62-0814289
Est. 1970

REPORT OF ANALYSIS

Mr. Bryan Williams
Applied Environmental Technologies,
PO Box 303
Carmi, IL 62821

February 08, 2010

Date Received : January 30, 2010
Description : Maiers Grocery
Sample ID : NO.11 6FT
Collected By : B. Williams
Collection Date : 01/28/10 13:20

ESC Sample # : L442823-31

Site ID :

Project : MAIERS

Parameter	Result	Det. Limit	Units	Limit	Method	Date/Time	By	Dil
TCLP Extraction	-				1311	02/03/10 0930	MVE	1
Lead	0.018	0.0075	mg/l	5.0	6010B	02/04/10 1515	ALT	1

BDL - Below Detection Limit
Det. Limit - Estimated Quantitation Limit(EQL)
Limit - Maximum Contaminant Level as established by the US EPA

Note:
The reported analytical results relate only to the sample submitted.
This report shall not be reproduced, except in full, without the written approval from ESC.

Reported: 02/08/10 11:11 Printed: 02/08/10 13:40



12065 Lebsnon Rd.
 Mt. Juliet, TN 37122
 (615) 758-5859
 1-800-767-5859
 Fax: (615) 758-5859

Tax I.D. 62-0814289
 Est. 1970

REPORT OF ANALYSIS

Mr. Bryan Williams
 Applied Environmental Technologies,
 PO Box 303
 Carmi, IL 62821

February 08, 2010

Date Received : January 30, 2010
 Description : Maiers Grocery
 Sample ID : NO.12 6FT
 Collected By : B. Williams
 Collection Date : 01/28/10 13:35

ESC Sample # : L442823-32
 Site ID :
 Project : MAIERS

Parameter	Result	Det. Limit	Units	Limit	Method	Date/Time	By	Dil
TCLP Extraction	-				1311	02/03/10 0930	MVE	1
Lead	0.018	0.0075	mg/l	5.0	6010B	02/04/10 1642	ALT	1

BDL - Below Detection Limit
 Det. Limit - Estimated Quantitation Limit (EQL)
 Limit - Maximum Contaminant Level as established by the US EPA

Note:
 The reported analytical results relate only to the sample submitted.
 This report shall not be reproduced, except in full, without the written approval from ESC.

Reported: 02/08/10 11:11 Printed: 02/08/10 13:40



YOUR LAB OF CHOICE

12065 Lebanon Rd.
Mt. Juliet, TN 37122
(615) 756-5858
1-800-767-5859
Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Mr. Bryan Williams
Applied Environmental Technologies,
PO Box 303
Carmi, IL 62821

February 08, 2010

Date Received : January 30, 2010
Description : Maiers Grocery
Sample ID : NO.13 6FT
Collected By : B. Williams
Collection Date : 01/28/10 13:40

ESC Sample # : L442823-33

Site ID :

Project : MAIERS

Parameter	Result	Det. Limit	Units	Limit	Method	Date/Time	By	Dil
TCLP Extraction	-				1311	02/03/10 0930	MVE	1
Lead	0.020	0.0075	mg/l	5.0	6010B	02/04/10 1645	ALT	1

BDL - Below Detection Limit
Det. Limit - Estimated Quantitation Limit (EQL)
Limit - Maximum Contaminant Level as established by the US EPA

Note:
The reported analytical results relate only to the sample submitted.
This report shall not be reproduced, except in full, without the written approval from ESC.

Reported: 02/08/10 11:11 Printed: 02/08/10 13:40



12065 Lebanon Rd.
Mt. Juliet, TN 37122
(615) 756-5858
1-800-767-5859
Fax (615) 756-5859

Tax I.D. 62-0314289

Est. 1970

REPORT OF ANALYSIS

Mr. Bryan Williams
Applied Environmental Technologies,
PO Box 303
Carmi, IL 62821

February 08, 2010

Date Received : January 30, 2010
Description : Maiers Grocery
Sample ID : NO.14 6FT
Collected By : B. Williams
Collection Date : 01/28/10 13:55

ESC Sample # : L442823-34

Site ID :

Project : MAIERS

Parameter	Result	Det. Limit	Units	Limit	Method	Date/Time	By	Dil
TCLP Extraction	-				1311	02/03/10 0930	MVE	1
Lead	0.0088	0.0075	mg/l	5.0	6010B	02/04/10 1648	ALT	1

BDL - Below Detection Limit
Det. Limit - Estimated Quantitation Limit(EQL)
Limit - Maximum Contaminant Level as established by the US EPA

Note:
The reported analytical results relate only to the sample submitted.
This report shall not be reproduced, except in full, without the written approval from ESC.

Reported: 02/08/10 11:11 Printed: 02/08/10 13:40



YOUR LAB OF CHOICE

12065 Lebanon Rd.
Mt. Juliet, TN 37122
(615) 756-5858
1-800-767-5859
Fax (615) 756-5259

Tax I.D. 62-0314289
Est. 1970

REPORT OF ANALYSIS

Mr. Bryan Williams
Applied Environmental Technologies,
PO Box 303
Carmi, IL 62821

February 08, 2010

Date Received : January 30, 2010
Description : Maiers Grocery
Sample ID : NO.15 6FT
Collected By : B. Williams
Collection Date : 01/28/10 14:15

ESC Sample # : L442823-35

Site ID :

Project : MAIERS

Parameter	Result	Det. Limit	Units	Limit	Method	Date/Time	By	Dil
TCLP Extraction	-				1311	02/03/10 0930	MVE	1
Lead	0.0084	0.0075	mg/l	5.0	6010B	02/04/10 1651	ALT	1

BDL - Below Detection Limit
Det. Limit - Estimated Quantitation Limit(EQL)
Limit - Maximum Contaminant Level as established by the US EPA
Note:

The reported analytical results relate only to the sample submitted.
This report shall not be reproduced, except in full, without the written approval from ESC.

Reported: 02/08/10 11:11 Printed: 02/08/10 13:40



12065 Lebanon Rd.
 Mt. Juliet, TN 37122
 (615) 759-5858
 1-800-767-5859
 Fax (615) 756-5259

Tax I.D. 62-0814289
 Est. 1970

REPORT OF ANALYSIS

Mr. Bryan Williams
 Applied Environmental Technologies,
 PO Box 303
 Carmi, IL 62821

February 08, 2010

Date Received : January 30, 2010
 Description : Maiers Grocery
 Sample ID : NO.16 6FT
 Collected By : B. Williams
 Collection Date : 01/28/10 14:30

ESC Sample # : L442823-36
 Site ID :
 Project : MAIERS

Parameter	Result	Det. Limit	Units	Limit	Method	Date/Time	By	Dil
TCLP Extraction	-				1311	02/03/10 0930	MVE	1
Lead	0.0089	0.0075	mg/l	5.0	6010B	02/04/10 1654	ALT	1

BDL - Below Detection Limit
 Det. Limit - Estimated Quantitation Limit(EQL)
 Limit - Maximum Contaminant Level as established by the US EPA

Note:
 The reported analytical results relate only to the sample submitted.
 This report shall not be reproduced, except in full, without the written approval from ESC.

Reported: 02/08/10 11:11 Printed: 02/08/10 13:40



YOUR LAB OF CHOICE

12065 Lebanon Rd.
Mt. Juliet, TN 37122
(615) 758-5858
1-800-767-5859
Fax (615) 758-5859

Tax I.D. 62-0814289
Est. 1970

REPORT OF ANALYSIS

Mr. Bryan Williams
Applied Environmental Technologies,
PO Box 303
Carmi, IL 62821

February 08, 2010

Date Received : January 30, 2010
Description : Maiers Grocery
Sample ID : NO.17 PIPE TRENCH 3FT
Collected By : B. Williams
Collection Date : 01/28/10 14:45

ESC Sample # : L442823-37
Site ID :
Project : MAIERS

Parameter	Result	Det. Limit	Units	Limit	Method	Date/Time	By	Dil
TCLP Extraction	-				1311	02/03/10 0930	MVE	1
Lead	0.024	0.0075	mg/l	5.0	6010B	02/04/10 1658	ALT	1

BDL - Below Detection Limit
Det. Limit - Estimated Quantitation Limit(EQL)
Limit - Maximum Contaminant Level as established by the US EPA

Note:
The reported analytical results relate only to the sample submitted.
This report shall not be reproduced, except in full, without the written approval from ESC.

Reported: 02/08/10 11:11 Printed: 02/08/10 13:40



YOUR LAB OF CHOICE

12065 Lebanon Rd.
Mt. Juliet, TN 37122
(615) 758-5858
1-800-767-5859
Fax (615) 758-5859

Tax I.D. 62-0814289
Est. 1970

REPORT OF ANALYSIS

Mr. Bryan Williams
Applied Environmental Technologies,
PO Box 303
Carmi, IL 62821

February 08, 2010

Date Received : January 30, 2010
Description : Maiers Grocery
Sample ID : NO.18 SOUTH DISPENSER 3FT
Collected By : B. Williams
Collection Date : 01/28/10 15:00

ESC Sample # : L442823-38

Site ID :

Project : MAIERS

Parameter	Result	Det. Limit	Units	Limit	Method	Date/Time	By	Dil
TCLP Extraction	-				1311	02/03/10 0930	LJM	1
Lead	0.012	0.0075	mg/l	5.0	6010B	02/04/10 1701	ALT	1

BDL - Below Detection Limit
Det. Limit - Estimated Quantitation Limit(EQL)
Limit - Maximum Contaminant Level as established by the US EPA

Note:
The reported analytical results relate only to the sample submitted.
This report shall not be reproduced, except in full, without the written approval from ESC.

Reported: 02/08/10 11:11 Printed: 02/08/10 13:40



12065 Lebanon Rd.
Mt. Juliet, TN 37122
(615) 758-5858
1-800-767-5859
Fax (615) 758-5259
Tax I.D. 62-0814289
Est. 1970

REPORT OF ANALYSIS

Mr. Bryan Williams
Applied Environmental Technologies,
PO Box 303
Carmi, IL 62821

February 08, 2010

Date Received : January 30, 2010
Description : Maiers Grocery
Sample ID : NO.19 NORTH DISPENSER 3FT
Collected By : B. Williams
Collection Date : 01/28/10 15:15

ESC Sample # : L442823-39
Site ID :
Project : MAIERS

Parameter	Result	Det. Limit	Units	Limit	Method	Date/Time	By	Dil
TCLP Extraction	-				1311	02/03/10 0930	LJN	1
Lead	0.019	0.0075	mg/l	5.0	6010B	02/04/10 1704	ALT	1

BDL - Below Detection Limit
Det. Limit - Estimated Quantitation Limit(EQL)
Limit - Maximum Contaminant Level as established by the US EPA
Note:
The reported analytical results relate only to the sample submitted.
This report shall not be reproduced, except in full, without the written approval from ESC.
Reported: 02/08/10 11:11 Printed: 02/08/10 13:40

Attachment A
List of Analytes with QC Qualifiers

Sample Number	Work Group	Sample Type	Analyte	Run ID	Qualifier
L442823-01	WG461961	SAMP	Methyl tert-butyl ether	R1102148	J
L442823-05	WG461445	SAMP	Toluene	R1098869	J
	WG461445	SAMP	Ethylbenzene	R1098869	J
	WG461445	SAMP	Total Xylenes	R1098869	J
L442823-06	WG461961	SAMP	Toluene	R1102148	J
	WG461961	SAMP	Ethylbenzene	R1102148	J
	WG461961	SAMP	Total Xylenes	R1102148	J
	WG461961	SAMP	Methyl tert-butyl ether	R1102148	J
L442823-11	WG462158	SAMP	Benzene	R1103328	J
L442823-15	WG461444	SAMP	Benzene	R1099648	J
L442823-16	WG461444	SAMP	Benzene	R1099648	J
	WG461444	SAMP	Toluene	R1099648	J
L442823-18	WG461444	SAMP	Toluene	R1099648	J
L442823-27	WG461765	SAMP	Lead	R1100788	P1

Attachment B
Explanation of QC Qualifier Codes

Qualifier	Meaning
J	(EPA) - Estimated value below the lowest calibration point. Confidence correlates with concentration.
P1	RPD value not applicable for sample concentrations less than 5 times the reporting limit.

Qualifier Report Information

ESC utilizes sample and result qualifiers as set forth by the EPA Contract Laboratory Program and as required by most certifying bodies including NELAC. In addition to the EPA qualifiers adopted by ESC, we have implemented ESC qualifiers to provide more information pertaining to our analytical results. Each qualifier is designated in the qualifier explanation as either EPA or ESC. Data qualifiers are intended to provide the ESC client with more detailed information concerning the potential bias of reported data. Because of the wide range of constituents and variety of matrices incorporated by most EPA methods, it is common for some compounds to fall outside of established ranges. These exceptions are evaluated and all reported data is valid and useable unless qualified as 'R' (Rejected).

Definitions

- Accuracy - The relationship of the observed value of a known sample to the true value of a known sample. Represented by percent recovery and relevant to samples such as: control samples, matrix spike recoveries, surrogate recoveries, etc.
- Precision - The agreement between a set of samples or between duplicate samples. Relates to how close together the results are and is represented by Relative Percent Difference.
- Surrogate - Organic compounds that are similar in chemical composition, extraction, and chromatography to analytes of interest. The surrogates are used to determine the probable response of the group of analytes that are chemically related to the surrogate compound. Surrogates are added to the sample and carried through all stages of preparation and analyses.
- TIC - Tentatively Identified Compound: Compounds detected in samples that are not target compounds, internal standards, system monitoring compounds, or surrogates.

Company Name/Address:
Applied Environmental Technologies, Inc.
 PO Box 303
 Carmi, IL 62821

Alternate billing information:
 8649 4906 4317
 8684 6069 6073

Analysis/Container/Preservative

B193 Chain of Custody Page ___ of ___

Prepared by:
ENVIRONMENTAL SCIENCE CORP.
 12065 Lebanon Road
 Mt. Juliet, TN 37122
 Phone (615) 758-5858
 Phone (800) 767-5859
 FAX (615) 758-5859

Report to: **MR BRYAN WILLIAMS**

Email to: **act 96@verizon.net**

Project Description: **MAIER'S GROCERY**

City/State Collected: **CRUZZVILLE, IL**

Phone: (618) 382-8232

Client Project #: **MAIER'S**

ESC Key:

FAX: (618) 382-2462

Collected by: **B. Williams**

Site/Facility ID#:

P.O.#:

Collected by (signature):
Bryan Williams
 Immediately Packed on Ice N ___ Y

Rush? (Lab MUST Be Notified)
 ___ Same Day..... 200%
 ___ Next Day..... 100%
 ___ Two Day..... 50%
 ___ Three Day..... 25%

Date Results Needed:
 Email? ___ No Yes
 FAX? ___ No ___ Yes

BIEY/MTBE (USE 8260)
 TCLP LEAD
 TOTAL LEAD

GoCode: **APPEV/DIR** (lab use only)
 Template/Prelogin
 Shipped Via:

Sample ID	Comp/Grab	Matrix*	Depth	Date	Time	No. of Cntrs	Analysis/Container/Preservative			Remarks/Contaminant	Sample # (lab only)
No. 1	Grab	SS	6'	1-28-10	11:20	5	X	X	X	01/21	LV12323-01
No. 2	Grab	SS	6'	1-28-10	11:30	5	X	X	X	02/22	02
No. 3	Grab	SS	6'	1-28-10	11:40	5	X	X	X	03/23	03
No. 4	Grab	SS	6'	1-28-10	11:45	5	X	X	X	04/24	04
No. 5	Grab	SS	13'	1-28-10	11:50	5	X	X	X	05/25	05
No. 6	Grab	SS	13'	1-28-10	11:55	5	X	X	X	06/26	06
No. 7	Grab	SS	13'	1-28-10	12:00	5	X	X	X	07/27	07
No. 8	Grab	SS	13'	1-28-10	12:05	5	X	X	X	08/28	08
No. 9	Grab	SS	13'	1-28-10	12:10	5	X	X	X	09/29	09

*Matrix: SS - Soil/Solid GW - Groundwater WW - WasteWater DW - Drinking Water OT - Other _____ pH _____ Temp _____

Remarks: **Must meet TACO Tier I Residential Objectives!** Flow _____ Other _____

Relinquished by: (Signature) <i>Bryan Williams</i>	Date: 1-29-10	Time: 10:30	Received by: (Signature)	Samples returned via: <input type="checkbox"/> UPS <input type="checkbox"/> FedEx <input type="checkbox"/> Courier <input type="checkbox"/>	Condition: (lab use only) OK
Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)	Temp: 31.6°C	Bottles Received: 95
Relinquished by: (Signature)	Date:	Time:	Received for lab by: (Signature) <i>J. Miller</i>	Date: 1-30-10	Time: 1715

000114

Company Name/Address: **Applied Environmental Technologies, Inc.**
 PO Box 303
 Carmi, IL 62821

Alternate billing information:

Analysis/Container/Preservative

Chain of Custody Page ___ of ___

Prepared by:

ENVIRONMENTAL SCIENCE CORP.

12065 Lebanon Road
 Mt. Juliet, TN 37122

Phone (615) 758-5858
 Phone (800) 767-5859
 FAX (615) 758-5859

Report to: **MR. BRYAN WILLIAMS** Email to: **aet90@verizon.net**

Project Description: **Maler's Grocery** City/State Collected: **Crossville, IL**

Phone: (618) 382-8232 Client Project #: **Maler's** ESC Key:

FAX: (618) 382-2462

Collected by: **B. Williams** Site/Facility ID#: P.O.#:

Collected by (signature): **Bryan Williams**

Rush? (Lab MUST Be Notified)

___ Same Day.....200%
 ___ Next Day.....100%
 ___ Two Day.....50%
 ___ Three Day.....25%

Date Results Needed: Email? No Yes FAX? No Yes

No. of Cntrs

CoCode: **APPENVGIR** (lab use only)

Template/Prelogin

Shipped Via

Sample ID	Comp/Grab	Matrix*	Depth	Date	Time	No. of Cntrs	Analysis/Container/Preservative				Remarks/Contaminant	Sample # (lab only)
No. 10	Grab	SS	6'	1-26-10	1:10	5	X	X	X	X	10/30	6470823-12
No. 11	Grab	SS	6'	1-26-10	1:20	5	X	X	X	X	11/31	6470823-11
No. 12	Grab	SS	6'	1-26-10	1:35	5	X	X	X	X	12/32	6470823-12
No. 13	Grab	SS	6'	1-26-10	1:40	5	X	X	X	X	13/33	6470823-13
No. 14	Grab	SS	6'	1-26-10	1:55	5	X	X	X	X	14/34	6470823-14
No. 15	Grab	SS	6'	1-28-10	2:15	5	X	X	X	X	15/35	6470823-15
No. 16	Grab	SS	6'	1-26-10	2:30	5	X	X	X	X	16/36	6470823-16
No. 17 (PIPE TRENCH)	Grab	SS	3'	1-26-10	2:45	5	X	X	X	X	17/37	6470823-17
No. 18 (SOUTH DISPENSER)	Grab	SS	3'	1-26-10	3:00	5	X	X	X	X	18/38	6470823-18

*Matrix: SS - Soil/Solid GW - Groundwater WW - WasteWater DW - Drinking Water OT - Other _____

pH _____ Temp _____

Flow _____ Other _____

Remarks: **MUST Meet TACO Tier I Residential Objectives!**

Relinquished by: (Signature) Bryan Williams	Date: 1-29-10	Time: 10:30	Received by: (Signature)	Samples returned via: <input type="checkbox"/> UPS <input type="checkbox"/> FedEx <input type="checkbox"/> Courier	Condition: OK (lab use only)
Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)	Temp: 36	Bottles Received: 95
Relinquished by: (Signature)	Date:	Time:	Received for lab by: (Signature) J. Ellis	Date: 1-30-10	Time: 1:15

000115

Company Name/Address: **Applied Environmental Technologies, Inc.**
 PO Box 303
 Carmi, IL 62821

Alternate billing information:

Analysis/Container/Preservative

Chain of Custody Page ___ of ___

Prepared by: **ENVIRONMENTAL SCIENCE CORP.**
 12065 Lebanon Road
 Mt. Juliet, TN 37122
 Phone (615) 758-5858
 Phone (800) 767-5859
 FAX (615) 758-5859

Report to: **MR. BRYAN WILLIAMS** Email to: **act98@venzon.net**

Project Description: **MAIER'S GROCERY** City/State Collected: **Crossville, IL**

Phone: (618) 382-8232 Client Project #: **MAIER'S** ESC Key:

FAX: (618) 382-2462

Collected by: **B. Williams** Site/Facility ID#: P.O.#:

Collected by (signature): *Bryan Williams* **Rush?** (Lab MUST Be Notified)
 Immediately Packed on Ice N ___ Y
 ___ Same Day..... 200% Date Results Needed:
 ___ Next Day..... 100% Email? ___ No ___ Yes
 ___ Two Day..... 50% FAX? ___ No ___ Yes
 ___ Three Day..... 25%

Sample ID	Comp/Grab	Matrix*	Depth	Date	Time	No. of Cntrs	Analysis/Container/Preservative			Remarks/Contaminant	Sample # (lab only)
No. 19 (NORTH DISPENSER)	Grab	SS	3'	1-26-10	3:15	5	X	X	X	19/39	LVV0823-19

*Matrix: SS - Soil/Solid GW - Groundwater WW - WasteWater DW - Drinking Water OT - Other _____ pH _____ Temp _____

Remarks: **MUST MEET TACO TIER I RESIDENTIAL OBJECTIVES!** Flow _____ Other _____

Relinquished by: (Signature) <i>Bryan Williams</i>	Date: 1-29-10	Time: 10:30	Received by: (Signature) <i>[Signature]</i>	Samples returned via: <input type="checkbox"/> UPS <input type="checkbox"/> FedEx <input type="checkbox"/> Courier	Condition: <input checked="" type="checkbox"/> Good <input type="checkbox"/> Poor (lab use only)
Relinquished by: (Signature) <i>[Signature]</i>	Date:	Time:	Received by: (Signature) <i>[Signature]</i>	Temp: 25	Bottles Received: 95
Relinquished by: (Signature) <i>[Signature]</i>	Date:	Time:	Received for lab by: (Signature) <i>[Signature]</i>	Date: 1-30-10	Time: 1:15

000116

The Agency is authorized to require this information under Section 4 and Title XVI of the Environmental Protection Act (415 ILCS 5/4, 5/7 - 5/7.17). Failure to disclose this information may result in a civil penalty of not to exceed \$50,000.00 for the violation and an additional civil penalty of not to exceed \$10,000.00 for each day during which the violation continues (415 ILCS 5/42). Any person who knowingly makes a false material statement or representation in any label, manifest, record, report, permit, or license, or other document filed, maintained or used for the purpose of compliance with Title XVI commits a Class 4 felony. Any second or subsequent offense after conviction hereunder is a Class 3 felony (415 ILCS 5/37.17). This form has been approved by the Forms Management Center.

**Illinois Environmental Protection Agency
Leaking Underground Storage Tank Program
Laboratory Certification for Chemical Analysis**

A. Site Identification

IEMA Incident # (6 digit): 20091397 IEPA Generator # (10 digit): 1930155021

Site Name: Maier's Grocery

Site Address (Not a P.O. Box): 109 South State Street

City: Crossville County: White Zip Code: 62827

B. Sample Collector

I certify that:

1. Appropriate sampling equipment/methods were utilized to obtain representative sample.

BSW

(initial)

2. Chain of custody procedures were followed in the field.

BSW

(initial)

3. Sample integrity was maintained by proper preservation.

BSW

(initial)

4. All samples were properly labeled.

BSW

(initial)

C. Laboratory Representative

I certify that:

1. Proper chain of custody procedures were followed as documented on the chain of custody forms.

CC

(initial)

2. Sample integrity was maintained by proper preservation.

CC

(initial)

3. All samples were properly labeled.

CC

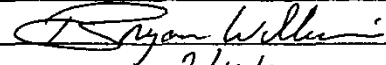
(initial)

- | | |
|---|------------------------|
| 4. Quality assurance/quality control procedures were established and carried out. | <u>CC</u>
(initial) |
| 5. Sample holding times were not exceeded. | <u>CC</u>
(initial) |
| 6. SW-846 Analytical Laboratory Procedure (USEPA) methods were used for the analyses. | <u>CC</u>
(initial) |
| 7. An accredited lab performed quantitative analysis using test methods identified in 35 IAC 186.180 (for samples collected on or after January 1, 2003). | <u>CC</u>
(initial) |

D. Signatures

I hereby affirm that all information contained in this form is true and accurate to the best of my knowledge and belief. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Sample Collector

Name: Bryan Williams
 Title: Professional Geologist
 Company: Applied Environmental Technologies, Inc.
 Address: P.O. Box 303
 City, State, ZIP: Carmi, IL 62821
 Phone: (618)382-8232
 Signature: 
 Date: 2/10/10

Laboratory Representative

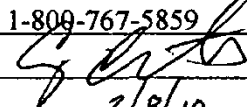
Name: Craig Cothron
 Title: Laboratory Project Manager
 Company: Environmental Science Corp.
 Address: 12065 Lebanon Road
 City, State, ZIP: Mt. Juliet, TN 37122
 Phone: 1-800-767-5859
 Signature: 
 Date: 2/8/10

Exhibit C



OFFICE OF THE ILLINOIS STATE FIRE MARSHAL
 Division of Technical Services
 1035 Stevenson Drive
 Springfield, Illinois 62703-4259
 (217)524-7605

FOR OFFICIAL USE ONLY
 Facility # 7-021663
 Permit # 00007-2010REM
 Request Rec'd 12/23/2009
 Amended Date
 Approval Date 1/6/2010 DS
 Permit Expires 7/6/2010

Permit for REMOVAL of Underground Storage Tank(s) and Piping for Petroleum and Hazardous Substances.

Permission to remove underground storage tank(s) or piping is hereby granted. Such removal shall not commence until the contractor the permit was issued to or an employee of that contractor (this does not include a subcontractor) shall establish a date certain to perform the UST activity by contacting the Office of the State Fire Marshal, Division of Petroleum and Chemical Safety, by telephone at the Springfield office between 8:30 a.m. and 12:00 p.m., at which time a mutually agreed upon date and time for the UST activity shall be scheduled. THIS PERMIT IS VALID FOR SIX MONTHS FROM THE APPROVAL DATE.

<p>(1) OWNER OF TANKS - Corporation, partnership, or other business entity: Martin & Bayley, Inc. 928 County Road 1350 North, Carmi, IL 62821 Contact: Mark Bayley (618) 382-2334</p>	<p>(2) FACILITY - name and address where tanks are located: Meier Grocery #131 109 South State Highway 1 Crossville, White Co., IL Contact: Mark Bayley (618) 382-2334</p>
--	---

(3) **REMOVAL OF TANKS:**

- (a) Number and size of tanks being removed: (TK # 1, 2) - 10,000 gallons
- (b) Product stored in each tank: (TK # 1, 2) - Gasoline
- (c) Reason of tanks being removed:
- (d) If tank(s) is leaking, indicate IEMA incident number:
- (e) Date each tank was last used: (TK # 1), (TK # 2)

(4) The owner must notify this Office when completion of tank removal has occurred, on the Notification for Underground Storage Tank Form This form can be obtained at www.state.il.us/osfm or by calling (217)785-1020. After removal is completed, the owner/operator shall perform a site assessment by measuring for the presence of a release where contamination is most likely to be present at the UST site. This is in accordance with the Illinois Administrative Code 170.640 (a) regulations and 40 CFR Part 280.72 (a) Federal Register Requirement.

(5) **SPECIAL CONTINGENCIES:**

<p>(6) PERSON, FIRM OR COMPANY PERFORMING WORK: Jeff Guisewite, Inc. 16153 East 1100 Road, Mount Carmel, IL 62863</p>	<p>Contact Person: Jeff Guisewite Phone: (618) 262-4953 Contractor Registration # IL-497 Exp. 08/10/2010</p>
---	--

Sincerely,

Daniel Sarks

cc: Storage Tank Safety Specialist -
 Fire Department -
 Office Coordinator -
 Division File
 (Rev. - 6/07)

Exhibit D



VEOLIA ES WAYNE COUNTY LANDFILL
 HWY 15 RR1
 FAIRFIELD, IL

Ticket: 33 922629
 000000 0000 0
 26 January 2010 2:23 pm
 26 January 2010 3:00 pm
 JEFF GUISEWITE, INC

010041
 JEFF GUISEWITE, INC
 16153 E 1100 ROAD
 MT CARMEL, IL 62863

Vehicle: M&B

Inbound - SCALE TICKET
 ILLINOIS

Contract: VWL10001

Reference: 10/CROSSVILLE

00 Gross Weight 77,000.00 lb
 Tare Weight 33,300.00 lb
 Net Weight 43,700.00 lb 21.85 TN

Quantity	Unit	Description	Rate	Tax	Total
15.00	YD	11 SW-CONT SOIL W/FUEL-EXT			

Net Amount:
 Tendered:

544.57

GLEND A KEORTGE

Driver

I hereby certify that this load does not contain any unauthorized wa

SIGNATURE:



VEOLIA ES WAYNE COUNTY LANDFILL
 HWY 15 RR1
 FAIRFIELD, IL

Ticket: 33 922602
 000000 0000 0.00
 26 January 2010 10:18 am
 26 January 2010 10:40 am
 JEFF GUISEWITE, INC

010041
 JEFF GUISEWITE, INC
 16153 E 1100 ROAD
 MT CARMEL, IL 62863

Vehicle: M&B

Inbound - SCALE TICKET
 ILLINOIS

Contract: VWL10001

Reference: 10/CROSSVILLE

00 Gross Weight 77,080.00 lb
 Tare Weight 33,440.00 lb
 Net Weight 43,640.00 lb 21.82 TN

Quantity	Unit	Description	Rate	Tax	Total
15.00	YD	11 SW-CONT SOIL W/FUEL-EXT			

Net Amount:
 Tendered:

GLEND A KEORTGE

Driver

I hereby certify that this load does not contain any unauthorized wa

SIGNATURE:

VEOLIA ES WAYNE COUNTY LANDFILL
HWY 15 RR1
FAIRFIELD, IL

010041
JEFF GUISEWITE, INC
16153 E 1100 ROAD
MT CARMEL, IL 62863

Ticket: 33 922631
000000 0000 0
26 January 2010 2:43 pm
26 January 2010 3:06 pm
JEFF GUISEWITE, INC



Vehicle: M&B

Inbound - SCALE TICKET
ILLINOIS

Contract: VWL10001

Reference: 36/CROSSVILKLE

00 Gross Weight 77,340.00 lb

Tare Weight 29,560.00 lb

Net Weight 47,780.00 lb 23.89 TN

Quantity	Unit	Description	Rate	Tax	Total
11.00	YD	11 SW-CONT SOIL W/FUEL-EXT			

Net Amount:

Tendered:

GLEND A KEORTGE

Driver

I hereby certify that this load does not contain any unauthorized waste

SIGNATURE: 

VEOLIA ES WAYNE COUNTY LANDFILL
HWY 15 RR1
FAIRFIELD, IL

Ticket: 33 922628
000000 0000 0
26 January 2010 2:41 pm
26 January 2010 2:58 pm
JEFF GUISEWITE, INC



010041
JEFF GUISEWITE, INC
16155 E 1100 ROAD
MT CARMEL, IL 62863

Vehicle: M&B

Inbound - SCALE TICKET
ILLINOIS

Contract: VWL10001

Reference: 38/CROSSVILLE

00 Gross Weight 66,760.00 lb
Tare Weight 29,480.00 lb
Net Weight 37,280.00 lb 18.64 TN

Quantity	unit	Description	Rate	Tax	Total
18.00	YU	11 SW-COMT SOIL W/FUEL-EXT			

Net Amount:
Tendered:

GLENDA KEORTGE

Driver

I hereby certify that this load does not contain any unauthorized waste

SIGNATURE: 

VEOLIA ES WAYNE COUNTY LANDFILL
HWY 15 RR1
FAIRFIELD, IL

Ticket: 33 922627
000000 0000 0
26 January 2010 2:31 pm
26 January 2010 2:50 pm
JEFF GUISEWITE, INC



010041
JEFF GUISEWITE, INC
10153 E 1100 ROAD
MT CARMEL, IL 62863

Vehicle: M&B

Inbound - SCALE TICKET
ILLINOIS

Contract: VWL10001

Reference: 43/CROSSVILLE

00 Gross Weight 74,660.00 lb

Tare Weight 28,800.00 lb

Net Weight 45,860.00 lb 22.93 TN

Quantity	Unit	Description	Rate	Tax	Total
15.00	YD	11 SW-CONT SOIL W/FUEL-EXT			

Net Amount:
Tendered:

GLEND A KEORTGE

Driver

I hereby certify that this load does not contain any unauthorized waste.

SIGNATURE: Deek Lu

VEOLIA ES WAYNE COUNTY LANDFILL
HWY 15 RR1
FAIRFIELD, IL

Ticket: 33 922626
000000 0000 0
26 January 2010 2:17 pm
26 January 2010 2:29 pm
JEFF GUISEWITE, INC



010041
JEFF GUISEWITE, INC
15153 E 1100 ROAD
MT CARMEL, IL 62863

Vehicle: M&B

Inbound - SCALE TICKET
ILLINOIS

Contract: VWL10001

Reference: 40/CROSSVILLE

00 Gross Weight 80,720.00 lb

Tare Weight 29,940.00 lb

Net Weight 50,780.00 lb 25.39 TN

Quantity	Unit	Description	Rate	Tax	Total
15.00	YU	11 SW-CONT SOIL W/FUEL-EXT			

Net Amount:
Tendered:

GLENDA KEORTGE

Driver

I hereby certify that this load does not contain any unauthorized waste

SIGNATURE: 

VEOLIA ES WAYNE COUNTY LANDFILL
HWY 15 RR1
FAIRFIELD, IL

Ticket: 33 922625
000000 0000 0
26 January 2010 2:09 pm
26 January 2010 2:25 pm
JEFF GUISEWITE, INC



010041
JEFF GUISEWITE, INC
10153 E 1100 ROAD
MT CARMEL, IL 62863

Vehicle: M&B

Inbound - SCALE TICKET
ILLINOIS

Contract: VWL10001

Reference: 6/CROSSVILLE

00 Gross Weight 80,400.00 lb
Tare Weight 32,240.00 lb
Net Weight 48,160.00 lb 24.08 TN

Quantity	Unit	Description	Rate	Tax	Total
15.00	Y0	11 SW-CONT SOIL W/FUEL-EXT			

Net Amount:
Tendered:

GLEND A KEORTGE

Driver

I hereby certify that this load does not contain any unauthorized waste.

SIGNATURE: 



VEOLIA ES WAYNE COUNTY LANDFILL
HWY 15 RR1
FAIRFIELD, IL

Ticket: 33 922610
000000 0000 0.00
26 January 2010 12:15 pm
26 January 2010 12:31 pm
JEFF GUISEWITE, INC

010041
JEFF GUISEWITE, INC
10153 E 1100 ROAD
MT CARMEL, IL 62863

Vehicle: M&B

Inbound - SCALE TICKET
ILLINOIS

Contract: VWL10001

Reference: 6/CROSSVILLE

00 Gross Weight 74,500.00 lb
Tare Weight 32,400.00 lb
Net Weight 42,100.00 lb 21.05 TN

Quantity	Unit	Description	Rate	Tax	Total
15.00	Y0	11 SW-CONT SOIL W/FUEL-EXT			

Net Amount:
Tendered:

GLEND A KEORTGE

Driver

I hereby certify that this load does not contain any unauthorized waste.

SIGNATURE: 



VEOLIA ES WAYNE COUNTY LANDFILL
HWY 15 RR1
FAIRFIELD, IL

Ticket: 33 922611
000000 0000 0.00
26 January 2010 12:33 pm
26 January 2010 12:33 pm
JEFF GUISEWITE, INC

010041
JEFF GUISEWITE, INC
16153 E 1100 ROAD
MT CARMEL, IL 62863

Vehicle: M&B

Inbound - SCALE TICKET
ILLINOIS

Contract: VWL10001
Reference: 6/CROSSVILLE

Gross Weight 76,600.00 lb
Tare Weight 32,340.00 lb
Net Weight 44,260.00 lb 22.13 TN

Quantity	unit	Description	Rate	Tax	Total
15.00	YD	11 SW-CONT SOIL W/FUEL-EXT			

Net Amount:
Tendered:

GLEND A KEORTGE

Driver

I hereby certify that this load does not contain any unauthorized waste

SIGNATURE:

[Handwritten Signature]
New ticket



VEOLIA ES WAYNE COUNTY LANDFILL
 HWY 15 RR1
 FAIRFIELD, IL

Ticket: 33 922613
 000000 0000 0.00
 26 January 2010 12:29 pm
 26 January 2010 12:46 pm
 JEFF GUISEWITE, INC

010041
 JEFF GUISEWITE, INC
 16153 E 1100 ROAD
 MT CARMEL, IL 62863

Vehicle: M&B

Inbound - SCALE TICKET
 ILLINOIS

Contract: VWL10001

Reference: 10/CROSSVILLE

@@ Gross Weight 75.540.00 lb
 Tare Weight 33.380.00 lb
 Net Weight 43.160.00 lb 21.58 TN

Quantity	Unit	Description	Rate	Tax	Total
3.00	YD	11 SW-CONT SOIL W/FUEL-EXT			

Net Amount:

Tendered:

BLENDIA KEORTGE

Driver

I hereby certify that this load does not contain any unauthorized waste.

SIGNATURE

VEOLIA ES WAYNE COUNTY LANDFILL
HWY 15 RRL
FAIRFIELD, IL

Ticket: 33 922640
000000 0000 0
27 January 2010 8:19 am
27 January 2010 8:33 am
JEFF GUISEWITE, INC



010041
JEFF GUISEWITE, INC
16153 E 1100 ROAD
MT CARMEL, IL 62863

Vehicle: M&B 9 Cui

Inbound - SCALE TICKET
ILLINOIS

Contract: VWL10001

Reference: 9/CROSSVILLE

Gross Weight 71,780.00 lb
Tare Weight 32,180.00 lb
Net Weight 39,600.00 lb 19.80 TN

Quantity	Unit	Description	Rate	Tax	Total
19.80	TN	SW-COMT SOIL W/FUEL-EXT			

Net Amount:
Tendered:

GLEND A KEORTGE

Driver

I hereby certify that this load does not contain any unauthorized waste.

SIGNATURE: 

VEOLIA ES WAYNE COUNTY LANDFILL
HWY 15 RRL
FAIRFIELD, IL

Ticket: 33 922646
000000 0000 0
27 January 2010 10:27 am
27 January 2010 10:27 am
JEFF GUISEWITE, INC



010041
JEFF GUISEWITE, INC
16153 E 1100 ROAD
MT CARMEL, IL 62863

Vehicle: M&B 9/GUIE

Inbound - SCALE TICKET
ILLINOIS

Contract: VWL10001

Reference: 9/CROSSVILLE

Gross Weight 76,400.00 lb
Tare Weight 32,180.00 lb
Net Weight 44,220.00 lb 22.11 TN

Quantity	Unit	Description	Rate	Tax	Total
22.11	TN				

Net Amount:
Tendered:

GLEND A KEORTGE

Driver

I hereby certify that this load does not contain any unauthorized waste.

SIGNATURE: 



VEOLIA ES WAYNE COUNTY LANDFILL
HWY 15 RR1
FAIRFIELD, IL

Ticket: 33 922655
000000 0000 0.00
27 January 2010 12:15 pm
27 January 2010 12:15 pm
JEFF GUISEWITE, INC

010041
JEFF GUISEWITE, INC
10153 E 1100 ROAD
MT CARMEL, IL 62863

Vehicle: M&B 9/GUIE

Inbound - SCALE TICKET
ILLINOIS

Contract: VWL10001
Reference: 9/CROSSVILLE
Gross Weight 78,040.00 lb
Stored Tare Weight 32,180.00 lb
Net Weight 45,860.00 lb 22.93 TN

Quantity	Unit	Description	Rate	Tax	Total
----------	------	-------------	------	-----	-------

Net Amount:
Tendered:

I hereby certify that this load does not contain any unauthorized waste.

GLENDA KEORTGE

Driver

SIGNATURE: 



VEOLIA ES WAYNE COUNTY LANDFILL
HWY 15 RR1
FAIRFIELD, IL

Ticket: 33 922675
000000 0000 0.00
27 January 2010 2:47 pm
27 January 2010 2:47 pm
JEFF GUISEWITE, INC

010041
JEFF GUISEWITE, INC
10153 E 1100 ROAD
MT CARMEL, IL 62863

Vehicle: M&B 9/GUIE

Inbound - SCALE TICKET
ILLINOIS

Contract: VWL10001
Reference: CROSSVILLE
Gross Weight 65,580.00 lb
Stored Tare Weight 32,180.00 lb
Net Weight 33,400.00 lb 16.70 TN

Quantity	Unit	Description	Rate	Tax	Total
----------	------	-------------	------	-----	-------

Net Amount:
Tendered:

I hereby certify that this load does not contain any unauthorized waste.

GLENDA KEORTGE

Driver

SIGNATURE: 

VEOLIA ES WAYNE COUNTY LANDFILL
HWY 15 RR1
FAIRFIELD, IL

010041
JEFF GUISEWITE, INC
16153 E 1100 ROAD
MT CARMEL, IL 62863

Ticket: 33 922647
000000 0000 0.
27 January 2010 10:29 am
27 January 2010 10:29 am
JEFF GUISEWITE, INC



Vehicle: M&B 10 GUI

Inbound - SCALE TICKET
ILLINOIS

Contract: VWL10001

Reference: 10/CROSSVILLE

Gross Weight 70,340.00 lb

Stored Tare Weight 33,160.00 lb

Net Weight 37,180.00 lb 18.59 TN

Quantity	Unit	Description	Rate	Tax	Total
----------	------	-------------	------	-----	-------

Net Amount:
Tendered:

GLEND A KEORTGE

Driver

I hereby certify that this load does not contain any unauthorized waste.

SIGNATURE: 



VEOLIA ES WAYNE COUNTY LANDFILL
HWY 15 RR1
FAIRFIELD, IL

010041
JEFF GUISEWITE, INC
16153 E 1100 ROAD
MT CARMEL, IL 62863

Ticket: 33 922657
000000 0000 0.00
27 January 2010 12:19 pm
27 January 2010 12:19 pm
JEFF GUISEWITE, INC

Vehicle: M&B 10 GUI

Inbound - SCALE TICKET
ILLINOIS

Contract: VWL10001

Reference: 10/CROSSVILLE

Gross Weight 76,940.00 lb

Stored Tare Weight 33,160.00 lb

Net Weight 43,780.00 lb 21.89 TN

Quantity	Unit	Description	Rate	Tax	Total
----------	------	-------------	------	-----	-------

Net Amount:
Tendered:

I hereby certify that this load does not contain any unauthorized waste.

GLEND A KEORTGE

Driver

SIGNATURE: 

VEOLIA ES WAYNE COUNTY LANDFILL
HWY 15 RR1
FAIRFIELD, IL

Ticket: 33 922642
000000 0000 0.
27 January 2010 8:24 am
27 January 2010 8:39 am
JEFF GUISEWITE, INC



010041
JEFF GUISEWITE, INC
16153 E 1100 ROAD
MT CARMEL, IL 62863

Vehicle: M&B Co 10

Inbound - SCALE TICKET
ILLINOIS

Contract: VWL10001

Reference: 10/CROSSVILLE

00 Gross Weight 82,020.00 lb
Tare Weight 33,160.00 lb
Net Weight 48,860.00 lb 24.43 TN

Quantity	Unit	Description	Rate	Tax	Total
15.00	YD	11 SW-CONT SOIL W/FUEL-EXT			

Net Amount:
Tendered:

GLEND A KEORTGE

Driver

I hereby certify that this load does not contain any unauthorized waste.

SIGNATURE: [Signature]



VEOLIA ES WAYNE COUNTY LANDFILL
HWY 15 RR1
FAIRFIELD, IL

Ticket: 33 922676
000000 0000 0.00
27 January 2010 2:50 pm
27 January 2010 2:50 pm
JEFF GUISEWITE, INC

010041
JEFF GUISEWITE, INC
16153 E 1100 ROAD
MT CARMEL, IL 62863

Vehicle: M&B 10 GUI

Inbound - SCALE TICKET
ILLINOIS

Contract: VWL10001

Reference: CROSSVILLE

00 Gross Weight 68,380.00 lb
Stored Tare Weight 33,160.00 lb
Net Weight 35,220.00 lb 17.61 TN

Quantity	Unit	Description	Rate	Tax	Total
----------	------	-------------	------	-----	-------

Net Amount:
Tendered:

GLEND A KEORTGE

Driver

I hereby certify that this load does not contain any unauthorized waste.
SIGNATURE: [Signature]



VEOLIA ES WAYNE COUNTY LANDFILL
HWY 15 RR1
FAIRFIELD, IL

Ticket: 33 922672
000000 0000 0.00
27 January 2010 2:11 pm
27 January 2010 2:26 pm
JEFF GUISEWITE, INC

010041
JEFF GUISEWITE, INC
16153 E 1100 ROAD
MT CARMEL, IL 62863

Vehicle: M&B

Inbound - SCALE TICKET
ILLINOIS

Contract: VWL10001

Reference: 42/CROSSVILLE

00 Gross Weight 69,360.00 lb
Tare Weight 31,680.00 lb
Net Weight 37,680.00 lb 18.84 TN

Quantity	Unit	Description	Rate	Tax	Total
15.00	Y0	11 SW-CONT SOIL W/FUEL-EXT			

Net Amount:
Tendered:

I hereby certify that this load does not contain any unauthorized waste.

GLENOA KEORTGE

Driver

SIGNATURE: 



VEOLIA ES WAYNE COUNTY LANDFILL
HWY 15 RR1
FAIRFIELD, IL

Ticket: 33 922680
000000 0000 0.00
27 January 2010 3:50 pm
27 January 2010 4:11 pm
JEFF GUISEWITE, INC

010041
JEFF GUISEWITE, INC
16153 E 1100 ROAD
MT CARMEL, IL 62863

Vehicle: M&B

Inbound - SCALE TICKET
ILLINOIS

Contract: VWL10001

Reference: 43/CROSSVILLE

00 Gross Weight 72,540.00 lb
Tare Weight 28,940.00 lb
Net Weight 43,600.00 lb 21.80 TN

Quantity	Unit	Description	Rate	Tax	Total
15.00	YD	11 SW-CONT SOIL W/FUEL-EXT			

Net Amount:
Tendered:

I hereby certify that this load does not contain any unauthorized waste.

GLEND A KEORTGE

Driver

SIGNATURE: *Glenda Keortge*



VEOLIA ES WAYNE COUNTY LANDFILL
HWY 15 RR1
FAIRFIELD, IL

Ticket: 33 922671
000000 0000 0.00
27 January 2010 2:01 pm
27 January 2010 2:19 pm
JEFF GUISEWITE, INC

010041
JEFF GUISEWITE, INC
16155 E 1100 ROAD
MT CARMEL, IL 62863

Vehicle: M&B

Inbound - SCALE TICKET
ILLINOIS

Contract: VW110001

Reference: 38/CROSSVILLE

00 Gross Weight 66,860.00 lb

Tare Weight 29,780.00 lb

Net Weight 37,080.00 lb 18.54 TN

Quantity	Unit	Description	Rate	Tax	Total
15.00	YU	11 SW-CONT SOIL W/FUEL-EXT			

Net Amount:

Tendered:

I hereby certify that this load does not contain any unauthorized waste.

GLEND A KEORTGE

Driver

SIGNATURE: 



VEOLIA 25 WAYNE COUNTY LANDFILL
HWY 15 RR1
FAIRFIELD, IL

Ticket: 33 922679
000000 0000 0.00
27 January 2010 3:45 pm
27 January 2010 4:08 pm
JEFF GUISEWITE, INC

010041
JEFF GUISEWITE, INC
16153 E 1100 ROAD
MT CARMEL, IL 62863

Vehicle: M&B

Inbound - SCALE TICKET
ILLINOIS

Contract: VWL10001

Reference: 36/CROSSVILLE

00 Gross Weight 67,580.00 lb
Tare Weight 29,740.00 lb
Net Weight 37,840.00 lb 18.92 TN

Quantity	Unit	Description	Rate	Tax	Total
18.00	YD	11 SW-CONT SOIL W/FUEL-EXT			

Net Amount:
Tendered:

I hereby certify that this load does not contain any unauthorized waste.

GLEND A KEORTGE

Driver

SIGNATURE



VEOLIA ES WAYNE COUNTY LANDFILL
HWY 15 RR1
FAIRFIELD, IL

Ticket: 33 922625
000000 0000 0.00
28 January 2010 8:23 am
28 January 2010 8:23 am
JEFF GUISEWITE, INC

010041
JEFF GUISEWITE, INC
16153 E 1100 ROAD
MT CARMEL, IL 62863

Vehicle: M&B 9/GUIE

Inbound - SCALE TICKET
ILLINOIS

Contract: VWL10001

Reference: CROSSVILLE

00 Gross Weight 69,560.00 lb

Stored Tare Weight 32,180.00 lb

Net Weight 37,380.00 lb 18.69 TN

Quantity	Unit	Description	Rate	Tax	Total
----------	------	-------------	------	-----	-------

Net Amount:
Tendered:

I hereby certify that this load does not contain any unauthorized waste.

GLEND A KEORTGE

Driver

SIGNATURE: 



VEOLIA ES WAYNE COUNTY LANDFILL
HWY 15 RR1
FAIRFIELD, IL

Ticket: 33 922696
000000 0000 0.00
28 January 2010 10:23 am
28 January 2010 10:23 am
JEFF GUISEWITE, INC

010041
JEFF GUISEWITE, INC
16153 E 1100 ROAD
MT CARMEL, IL 62863

Vehicle: M&B 9/GUIE

Inbound - SCALE TICKET
ILLINOIS

Contract: VWL10001

Reference: CROSSVILLE

00 Gross Weight 79,620.00 lb

Stored Tare Weight 32,180.00 lb

Net Weight 47,440.00 lb 23.72 TN

Quantity	Unit	Description	Rate	Tax	Total
----------	------	-------------	------	-----	-------

Net Amount:
Tendered:

I hereby certify that this load does not contain any unauthorized waste.

GLEND A KEORTGE

Driver

SIGNATURE: 



VEOLIA ES WAYNE COUNTY LANDFILL
HWY 15 RR1
FAIRFIELD, IL

Ticket: 33 922706
000000 0000 0.00
28 January 2010 12:22 pm
28 January 2010 12:22 pm
JEFF GUISEWITE, INC

010041
JEFF GUISEWITE, INC
16153 E 1100 ROAD
MT CARMEL, IL 62863

Vehicle: MSB 9/GUE

Inbound - SCALE TICKET
ILLINOIS

Contract: VWL10001
Reference: CROSSVILLE

Gross Weight 57,180.00 lb
Stored Tare Weight 32,180.00 lb
Net Weight 55,000.00 lb 27.50 TN

Quantity	Unit	Description	Rate	Tax	Total
15.00	YD	11 SW-CONT SOIL W/FUEL-EXT			

Net Amount:
Tendered:

I hereby certify that this load does not contain any unauthorized waste.

GLEND A KEORTGE

Driver

SIGNATURE: 



VEOLIA ES WAYNE COUNTY LANDFILL
HWY 15 RR1
FAIRFIELD, IL

Ticket: 33 922725
000000 0000 0.00
28 January 2010 2:41 pm
28 January 2010 2:41 pm
JEFF GUISEWITE, INC

010041
JEFF GUISEWITE, INC
16153 E 1100 ROAD
MT CARMEL, IL 62863

Vehicle: MSB 9/GUE

Inbound - SCALE TICKET
ILLINOIS

Contract: VWL10001
Reference: CROSSVILLE

Gross Weight 82,420.00 lb
Stored Tare Weight 32,180.00 lb
Net Weight 50,240.00 lb 25.12 TN

Quantity	Unit	Description	Rate	Tax	Total
15.00	YD	11 SW-CONT SOIL W/FUEL-EXT			

Net Amount:
Tendered:

GLEND A KEORTGE

Driver

I hereby certify that this load does not contain any unauthorized waste.

SIGNATURE: 



VEOLIA ES WAYNE COUNTY LANDFILL
HWY 15 RR1
FAIRFIELD, IL

Ticket: 33 922686
000000 0000 0.00
28 January 2010 8:27 am
28 January 2010 8:27 am
JEFF GUISEWITE, INC

010041
JEFF GUISEWITE, INC
16153 E 1100 ROAD
MT CARMEL, IL 62863

Vehicle: M&B 10 GUI

Inbound - SCALE TICKET
ILLINOIS

Contract: VWL10001
Reference: CROSSVILLE
00 Gross Weight 65,850.00 lb
Stored Tare Weight 33,160.00 lb
Net Weight 32,700.00 lb 16.35 TN

quantity	Unit	Description	Rate	Tax	Total
----------	------	-------------	------	-----	-------

Net Amount:
Tendered:

I hereby certify that this load does not contain any unauthorized waste.

GLEND A KEORTGE

Driver

SIGNATURE: 



VEOLIA ES WAYNE COUNTY LANDFILL
HWY 15 RR1
FAIRFIELD, IL

Ticket: 33 922698
000000 0000 0.00
28 January 2010 10:28 am
28 January 2010 10:28 am
JEFF GUISEWITE, INC

010041
JEFF GUISEWITE, INC
16153 E 1100 ROAD
MT CARMEL, IL 62863

Vehicle: M&B 10 GUI

Inbound - SCALE TICKET
ILLINOIS

Contract: VWL10001
Reference: CROSSVILLE
00 Gross Weight 75,440.00 lb
Stored Tare Weight 33,160.00 lb
Net Weight 42,280.00 lb 21.14 TN

quantity	Unit	Description	Rate	Tax	Total
----------	------	-------------	------	-----	-------

Net Amount:
Tendered:

I hereby certify that this load does not contain any unauthorized waste.

GLEND A KEORTGE

Driver

SIGNATURE: 



VEOLIA ES WAYNE COUNTY LANDFILL
HWY 15 RR1
FAIRFIELD, IL

Ticket: 33 922706
000000 0000 0.00
28 January 2010 12:25 pm
28 January 2010 12:25 pm
JEFF GUISEWITE, INC

010041
JEFF GUISEWITE, INC
16155 E 1100 ROAD
MT CARMEL, IL 62863

Vehicle: M&B 10 GUI

Inbound - SCALE TICKET
ILLINOIS

Contract: VWL10001

Reference: CROSSVILLE

Gross Weight 72,660.00 lb

Skored Tare Weight 33,160.00 lb

Net Weight 39,500.00 lb 19.75 TN

Quantity	unit	Description	Rate	Tax	Total
19.75	YD	11 SW-CONT SOIL W/FUEL-EXT			

Net Amount:

Tendered:

I hereby certify that this load does not contain any unauthorized waste.

GLENDIA KEORTGE

Driver

SIGNATURE: 



VEOLIA ES WAYNE COUNTY LANDFILL
HWY 15 RR1
FAIRFIELD, IL

Ticker: 33 922687
000000 0000 0.00
28 January 2010 8:14 am
28 January 2010 8:32 am
JEFF GUISEWITE, INC

010041
JEFF GUISEWITE, INC
16153 E 1100 ROAD
MT CARMEL, IL 62863

Vehicle: M&B

Inbound - SCALE TICKET
ILLINOIS

Contract: VWL10001

Reference: 43/CROSSVILLE

00 Gross Weight 68,220.00 lb
Tare Weight 29,700.00 lb
Net Weight 38,520.00 lb 19.26 TN

Quantity	Unit	Description	Rate	Tax	Total
19.26	TN	SW-CONT SOIL W/FUEL-EXT			

Net Amount:
Tendered:

I hereby certify that this load does not contain any unauthorized waste.

GLENDIA KEORTGE

Driver

SIGNATURE: [Signature]



VEOLIA ES WAYNE COUNTY LANDFILL
HWY 15 RR1
FAIRFIELD, IL

Ticker: 33 922695
000000 0000 0.00
28 January 2010 10:17 am
28 January 2010 10:17 am
JEFF GUISEWITE, INC

010041
JEFF GUISEWITE, INC
16153 E 1100 ROAD
MT CARMEL, IL 62863

Vehicle: M&B 43C

Inbound - SCALE TICKET
ILLINOIS

Contract: VWL10001

Reference: CROSSVILLE

00 Gross Weight 78,180.00 lb
Stored Tare Weight 29,700.00 lb
Net Weight 48,480.00 lb 24.24 TN

Quantity	Unit	Description	Rate	Tax	Total
24.24	TN				

Net Amount:
Tendered:

I hereby certify that this load does not contain any unauthorized waste.

GLENDIA KEORTGE

Driver

SIGNATURE: [Signature]



VEOLIA 25 WAYNE COUNTY LANDFILL
 HWY 15 RR1
 FAIRFIELD, IL

Ticker: 33 922704
 000000 0000 0.00
 28 January 2010 12:13 pm
 28 January 2010 12:13 pm
 JEFF GUISEWITE, INC

010041
 JEFF GUISEWITE, INC
 16153 E 1100 ROAD
 MT CARMEL, IL 62863

Vehicle: M&B 43C

Inbound - SCALE TICKET
 ILLINOIS

Contract: VWL10001
 Reference: CROSSVILLE

Gross Weight 64,060.00 lb
 Scored Tare Weight 29,700.00 lb
 Net Weight 34,360.00 lb 17.18 TN

Quantity	Unit	Description	Rate	Tax	Total
15.00	YU	11 SW-CONT SOIL W/FUEL-EXT			

Net Amount:
 Tendered:

GLEND A KEORTGE

Driver

I hereby certify that this load does not contain any unauthorized waste.

SIGNATURE: *Jeff Guisewite*



VEOLIA ES WAYNE COUNTY LANOFILL
HWY 15 RRI
FAIRFIELD, IL

Ticket: 33 922720
000000 0000 0.00
28 January 2010 1:46 pm
28 January 2010 1:46 pm
JEFF GUISEWITE, INC

010041
JEFF GUISEWITE, INC
16153 E 1100 ROAD
MT CARMEL, IL 62863

Vehicle: M&B 40 C

Inbound - SCALE TICKET
ILLINOIS

Contract: VWL10001

Reference: CROSSVILLE

00 Gross Weight 67,040.00 lb

Stored Tare Weight 30,580.00 lb

Net Weight 36,460.00 lb 18.23 TN

Quantity	Unit	Description	Rate	Tax	Total
18.23	YD	11 SW-CONT SOIL W/FUEL-EXT			

NET Amount:
Tendered:

GLEND A KEORTGE

Driver

I hereby certify that this load does not contain any unauthorized waste.

SIGNATURE: 



VEOLIA ES WAYNE COUNTY LANDFILL
 HWY 15 RR1
 FAIRFIELD, IL

Ticket: 33 922683
 000000 0000 0.00
 28 January 2010 7:20 am
 28 January 2010 7:38 am
 JEFF GUISEWITE, INC

010041
 JEFF GUISEWITE, INC
 16155 E 1100 ROAD
 MT CARMEL, IL 62863

Vehicle: M&B

Inbound - SCALE TICKET
 ILLINOIS

Contract: VWL10001
 Reference: 40/CROSSVILLE
 00 Gross Weight 74,740.00 lb
 Tare Weight 30,580.00 lb
 Net Weight 44,160.00 lb 22.08 TN

Quantity	Unit	Description	Rate	Tax	Total
15.00	YD	11 SW-CONT SOIL W/FUEL-EXT			

Net Amount:
 Tendered:

GLEND A KEORTGE

Driver

I hereby certify that this load does not contain any unauthorized waste.

SIGNATURE: 



VEOLIA ES WAYNE COUNTY LANDFILL
 HWY 15 RR1
 FAIRFIELD, IL

Ticket: 33 922690
 000000 0000 0.00
 28 January 2010 9:17 am
 28 January 2010 9:36 am
 JEFF GUISEWITE, INC

010041
 JEFF GUISEWITE, INC
 16155 E 1100 ROAD
 MT CARMEL, IL 62863

Vehicle: M&B

Inbound - SCALE TICKET
 ILLINOIS

Contract: VWL10001
 Reference: 40/CROSSVILLE
 00 Gross Weight 71,220.00 lb
 Tare Weight 31,500.00 lb
 Net Weight 39,720.00 lb 19.86 TN

Quantity	Unit	Description	Rate	Tax	Total
15.00	YD	11 SW-CONT SOIL W/FUEL-EXT			

Net Amount:
 Tendered:

GLEND A KEORTGE

Driver

I hereby certify that this load does not contain any unauthorized waste.

SIGNATURE: 



VEOLIA ES WAYNE COUNTY LANDFILL
HWY 15 RR1
FAIRFIELD, IL

Ticket: 33 922700
000000 0000 0.00
28 January 2010 11:20 am
28 January 2010 11:20 am
JEFF GUISEWITE, INC

010041
JEFF GUISEWITE, INC
16153 E 1100 ROAD
MT CARMEL, IL 62863

Vehicle: m&e 40 C

Inbound - SCALE TICKET
ILLINOIS

Contract: VWL10001

Reference: CROSSVILLE

Gross Weight 74,020.00 lb

stored Tare Weight 30,580.00 lb

Net Weight 43,440.00 lb 21.72 TN

quantity	unit	Description	Rate	Tax	Total
13.00	YD	11 SW-CONT SOIL W/FUEL-EXT			

Net Amount:

Tendered:

I hereby certify that this load does not contain any unauthorized waste.

GLEND A KEORTGE

Driver

SIGNATURE: 

10

No. 03017

Section I GENERATOR (Generator completes all of Section I)

a. Generator Name: MARTIN AND BAYLEY b. Generating Location: CROSSVILLE, IL
 c. Address: P.O. Box 385 d. Address: 109 S. State St.
CARMI, ILLINOIS 62821 Crossville, IL 62827
 e. Phone No.: (618) 382-2334 f. Phone No.: (618) 966-3461

If owner of the generating facility differs from the generator, provide:
 g. Owner's Name: _____
 h. Owner's Phone No.: _____

i. Waste Profile No.: VWL 10001
 j. Description of Waste: Petroleum contaminated soil, non-haz. by EPA description

	Quantity	Units	TYPE
k. Quantity - Ld 1	15	4	T
Quantity - Ld 2	15	4	T
Quantity - Ld 3	15	4	T
Quantity - Ld 4	15	4	T

TYPE
D - DRUM
T - TRUCK
O - OTHER
UNITS
Y - YARDS
O - OTHER

*GENERATOR'S CERTIFICATION: I hereby certify that the above named material is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations; AND, if the waste is a treatment residue of a previously restricted hazardous waste subject to the Land Disposal Restrictions, I certify and warrant that the waste has been treated in accordance with the requirements of 40 CFR Part 268 and is no longer a hazardous waste as defined by 40 CFR Part 261.

- 21.827 TOTAL
 21.58 VOLUME
 - 21.85 65.25T

Bryan Williams Bryan Williams 01/26/10
 Generator Authorized Agent Name Signature Shipment Date

Section II TRANSPORTER (Generator completes a-d; Transporter I complete c-g; Transporter II complete h-n)

TRANSPORTER I	TRANSPORTER II
a. Name: <u>Jeff Gruscio, Inc</u>	h. Name: _____
b. Address: <u>16153 East 1100 Road</u> <u>Mt. Carmel, Illinois 62863</u>	i. Address: _____
c. Driver Name/Title: <u>KELLY</u>	j. Driver Name/Title: _____
d. Phone No.: <u>(618) 262-4933</u> e. Truck No.: <u>10</u>	k. Phone No.: _____ l. Truck No.: _____
f. Vehicle License No./State: <u>P353121</u> <u>IL</u>	m. Vehicle License No./State: _____
Acknowledgement of Receipt of Materials.	Acknowledgement of Receipt of Materials.
g. <u>[Signature]</u> <u>01/26/10</u> Driver Signature Shipment Date	n. _____ Driver Signature Shipment Date

Section III DESTINATION (Generator completes a-d; destination site completes e-f)

a. Site Name: Veolia ES Wayne County Landfill, Inc. c. Phone No.: 618-842-4294
 b. Physical Address: State Highway 15 West d. Mailing Address: RR 1 Box 214, Fairfield, IL 62837
Fairfield, IL 62837 IEPA Site No. 1995-416-LF

e. Discrepancy Indication Space: _____

I hereby certify that the above named material has been accepted and to the best of my knowledge the foregoing is true and accurate.

f. Glenda Keortze Glenda Keortze 01/26/10
 Name of Authorized Agent Signature Receipt Date

* Shipper refers to the company which owns, leases, operates, controls, or supervises the facility being demolished or renovated, or the demolition or renovation operation, or both.

WHITE - Destination Retain CANARY - Return to Generator PINK - Transporter Retain GOLD - Generator Retain

No. 03000

Section I GENERATOR (Generator completes all of Section I)

a. Generator Name: MARTIN & BAYLEY, INC b. Generating Location: Crossville, IL
 c. Address: P.O. Box 385 d. Address: 109 S. State St.
Carmel, Illinois 62821 Crossville, IL 62827
 e. Phone No.: (618) 382-2334 f. Phone No.: (618) 968-3461

If owner of the generating facility differs from the generator, provide:
 g. Owner's Name: _____
 h. Owner's Phone No.: _____

i. Waste Profile No.: VWL 10001
 j. Description of Waste: Petroleum contaminated soil
working by EPA desig.

	Quantity	Units	TYPE
k. Quantity - Ld 1	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> 15	<input type="text"/> Y	<input type="text"/> T
Quantity - Ld 2	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> 15	<input type="text"/> Y	<input type="text"/> T
Quantity - Ld 3	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> 15	<input type="text"/> Y	<input type="text"/> T
Quantity - Ld 4	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> 15	<input type="text"/> Y	<input type="text"/> T

TYPE
 D - DRUM
 T - TRUCK
 O - OTHER

UNITS
 Y - YARDS
 O - OTHER

*GENERATOR'S CERTIFICATION: I hereby certify that the above named material is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations; **AND, if the waste is a treatment residue of a previously restricted hazardous waste** subject to the Land Disposal Restrictions, I certify and warrant that the waste has been treated in accordance with the requirements of 40 CFR Part 268 and is no longer a hazardous waste as defined by 40 CFR Part 261.

Bryan Williams Bryan Williams 012610
 Generator Authorized Agent Name Signature Shipment Date

TOTAL VOLUME
23.89 T

Section II TRANSPORTER (Generator completes a-d; Transporter I complete c-g; Transporter II complete h-n)

TRANSPORTER I	TRANSPORTER II
a. Name: <u>Jeff Causewate, Inc</u>	h. Name: <u>CH Carter & Son</u>
b. Address: <u>16153 East 1100 Road</u> <u>Mt Carmel, IL 62863</u>	i. Address: <u>Mill Shoals, IL</u>
c. Driver Name/Title: _____	j. Driver Name/Title: <u>Thomas Cannon</u>
d. Phone No.: _____ e. Truck No.: _____	k. Phone No.: <u>(618) 94-5316</u> l. Truck No.: <u>36</u>
f. Vehicle License No./State: <u>IL</u>	m. Vehicle License No./State: <u>P222616 IL</u>
Acknowledgement of Receipt of Materials.	Acknowledgement of Receipt of Materials.
g. Driver Signature _____ Shipment Date <input type="text"/>	n. Driver Signature <u>Thomas Cannon</u> Shipment Date <u>012610</u>

Section III DESTINATION (Generator completes a-b; destination/site completes e-f)

a. Site Name: Veolia ES Wayne County Landfill, Inc. c. Phone No.: 618-842-4294
 b. Physical Address: State Highway 15 West d. Mailing Address: RR 1 Box 214, Fairfield, IL 62837
Fairfield, IL 62837 **IEPA Site No.** 1995-416-LF

e. Discrepancy Indication Space: _____

I hereby certify that the above named material has been accepted and to the best of my knowledge the foregoing is true and accurate.

f. Glenda Keortze Glenda Keortze 012610
 Name of Authorized Agent Signature Receipt Date

* Shipper refers to the company which owns, leases, operates, controls, or supervises the facility being demolished or renovated, or the demolition or renovation operation, or both.

WHITE - Destination Retain CANARY - Return to Generator PINK - Transporter Retain GOLD - Generator Retain

No. 03015

Section I GENERATOR (Generator completes all of Section I)

a. Generator Name: MARTINI & BAYLEY, Inc. b. Generating Location: Crossville, IL
 c. Address: P.O. Box 385 d. Address: 109 S. State St.
Carmel, IL 62621 Crossville, IL 62627
 e. Phone No.: (618) 382-2334 f. Phone No.: (618) 966-3461

If owner of the generating facility differs from the generator, provide:
 g. Owner's Name: _____
 h. Owner's Phone No.: _____

i. Waste Profile No.: PWL 10001
 j. Description of Waste: Petroleum contaminated soil
non-h73 by EPA descrip.

	Quantity	Units	TYPE
k. Quantity - Ld 1	15	Y	T
Quantity - Ld 2	15	Y	T
Quantity - Ld 3	15	Y	T
Quantity - Ld 4	15	Y	T

TYPE
 D - DRUM
 T - TRUCK
 O - OTHER

UNITS
 Y - YARDS
 O - OTHER

TOTAL VOLUME
18.64 T

*GENERATOR'S CERTIFICATION: I hereby certify that the above named material is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations; **AND, if the waste is a treatment residue of a previously restricted hazardous waste** subject to the Land Disposal Restrictions, I certify and warrant that the waste has been treated in accordance with the requirements of 40 CFR Part 268 and is no longer a hazardous waste as defined by 40 CFR Part 261.

Bryan Williams Bryan Williams 012610
 Generator Authorized Agent Name Signature Shipment Date

Section II TRANSPORTER (Generator completes a-d; Transporter I complete c-g; Transporter II complete h-n)

TRANSPORTER I
 a. Name: Jeff Gruswick Inc
 b. Address: 16153 East 1100 Road
M. Carmel, IL 62663
 c. Driver Name/Title: _____
 d. Phone No.: _____ e. Truck No.: _____
 f. Vehicle License No./State: IL
 Acknowledgement of Receipt of Materials.
 g. Driver Signature _____ Shipment Date _____

TRANSPORTER II
 h. Name: CH Carter and Son
 i. Address: Mill Shoals, IL
 j. Driver Name/Title: DOUG FLY
 k. Phone No.: (618) 896-5316 l. Truck No.: 38
 m. Vehicle License No./State: P43119 IL
 Acknowledgement of Receipt of Materials.
 n. Driver Signature _____ Shipment Date _____

Section III DESTINATION (Generator completes a-d; Destination Site completes e-f)

a. Site Name: Veolia ES Wayne County Landfill, Inc. c. Phone No.: 618-842-4294
 b. Physical Address: State Highway 15 West d. Mailing Address: RR 1 Box 214, Fairfield, IL 62837
Fairfield, IL 62837 IEPA Site No. 1995-416-LF
 e. Discrepancy Indication Space: _____

I hereby certify that the above named material has been accepted and to the best of my knowledge the foregoing is true and accurate.

f. Glenda Keortge Glenda Keortge 012610
 Name of Authorized Agent Signature Receipt Date

* Shipper refers to the company which owns, leases, operates, controls, or supervises the facility being demolished or renovated, or the demolition or renovation operation, or both.

WHITE - Destination Retain CANARY - Return to Generator PINK - Transporter Retain GOLD - Generator Retain

No. 03010

Section I GENERATOR (Generator completes all of Section I)

a. Generator Name: MARTIN & BAYLEY, INC b. Generating Location: CROSSVILLE, IL
 c. Address: P.O. Box 366 d. Address: 109 S. STATE ST.
Crossville, IL 62821
 e. Phone No.: (618) 382-2334 f. Phone No.: (618) 966-3461
 If owner of the generating facility differs from the generator, provide:
 g. Owner's Name: _____
 h. Owner's Phone No.: _____

i. Waste Profile No.: VWL 10001
 j. Description of Waste: Petroleum contaminated soil
non-haz by EPA description

	Quantity	Units	TYPE
k. Quantity - Ld 1	<input type="text" value="15"/>	<input type="text" value="Y"/>	<input type="text" value="T"/>
Quantity - Ld 2	<input type="text" value="15"/>	<input type="text" value="Y"/>	<input type="text" value="T"/>
Quantity - Ld 3	<input type="text" value="15"/>	<input type="text" value="Y"/>	<input type="text" value="T"/>
Quantity - Ld 4	<input type="text" value="15"/>	<input type="text" value="Y"/>	<input type="text" value="T"/>

TYPE
D - DRUM
T - TRUCK
O - OTHER
UNITS
Y - YARDS
O - OTHER

TOTAL VOLUME
22.93

*GENERATOR'S CERTIFICATION: I hereby certify that the above named material is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations; AND, If the waste is a treatment residue of a previously restricted hazardous waste subject to the Land Disposal Restrictions, I certify and warrant that the waste has been treated in accordance with the requirements of 40 CFR Part 268 and is no longer a hazardous waste as defined by 40 CFR Part 261.

Bruce Williams Generator Authorized Agent Name
Bruce Williams Signature
012610 Shipment Date

Section II TRANSPORTER (Generator completes a-d; Transporter I complete c-g; Transporter II complete h-n)

TRANSPORTER I
 a. Name: _____
 b. Address: _____
 c. Driver Name/Title: _____
 d. Phone No.: _____ e. Truck No.: _____
 f. Vehicle License No./State: _____
 Acknowledgement of Receipt of Materials.
 g. Driver Signature _____
 Shipment Date

TRANSPORTER II
 h. Name: C. H. Carter & Sons
 i. Address: 2510 Co Rd 225E
Mill Shoals, IL 62862
 j. Driver Name/Title: Derek Lee
 k. Phone No.: (618) 896-5316 l. Truck No.: 43
 m. Vehicle License No./State: P443395
 Acknowledgement of Receipt of Materials.
 n. Driver Signature Derek Lee
 Shipment Date

Section III DESTINATION (Generator completes a-d; destination site completes e-f)

a. Site Name: Veolia ES Wayne County Landfill, Inc. c. Phone No.: 618-842-4294
 b. Physical Address: State Highway 15 West d. Mailing Address: RR 1 Box 214, Fairfield, IL 62837
Fairfield, IL 62837 IEPA Site No. 1995-416-LF
 e. Discrepancy Indication Space: _____

I hereby certify that the above named material has been accepted and to the best of my knowledge the foregoing is true and accurate.

f. Glenda Keontze Name of Authorized Agent
Glenda Keontze Signature
 Receipt Date

* Shipper refers to the company which owns, leases, operates, controls, or supervises the facility being demolished or renovated, or the demolition or renovation operation, or both.

WHITE - Destination Retain CANARY - Return to Generator PINK - Transporter Retain GOLD - Generator Retain

No. 03017

Section I GENERATOR (Generator completes all of Section I)

a. Generator Name: Martin & Bayley Inc
 b. Generating Location: Crossville, IL
 c. Address: P.O. Box 385
 d. Address: 109 S. State St
Crossville, IL 62827
 e. Phone No.: (618) 382-2334
 f. Phone No.: (618)(966) 3461
 If owner of the generating facility differs from the generator, provide:
 g. Owner's Name: _____
 h. Owner's Phone No.: _____
 i. Waste Profile No.: _____
 j. Description of Waste: _____

Quantity	Units	TYPE
Quantity - Ld 1	<input type="text" value="15"/> <input type="text" value="4"/>	<input type="text" value="T"/>
Quantity - Ld 2	<input type="text"/>	<input type="text"/>
Quantity - Ld 3	<input type="text"/>	<input type="text"/>
Quantity - Ld 4	<input type="text"/>	<input type="text"/>

TYPE

D - DRUM
T - TRUCK
O - OTHER

UNITS

Y - YARDS
O - OTHER

*GENERATOR'S CERTIFICATION: I hereby certify that the above named material is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations; **AND, if the waste is a treatment residue of a previously restricted hazardous waste** subject to the Land Disposal Restrictions, I certify and warrant that the waste has been treated in accordance with the requirements of 40 CFR Part 268 and is no longer a hazardous waste as defined by 40 CFR Part 261.

TOTAL VOLUME
25.39 Ton

Bryan Williams Generator Authorized Agent Name
Bryan Williams Signature
012610 Shipment Date

Section II TRANSPORTER (Generator completes a-d; Transporter I complete e-g; Transporter II complete h-n)

TRANSPORTER I		TRANSPORTER II	
a. Name: _____	h. Name: <u>C. H. Carter & Sons</u>	i. Address: <u>2510 Co Rd 225E</u>	j. Driver Name/Title: <u>Les Cline</u>
b. Address: _____	i. Address: <u>Mill Shoals, IL 62862</u>	k. Phone No.: <u>(618) 896-5316</u>	l. Truck No.: <u>40</u>
c. Driver Name/Title: _____	m. Vehicle License No./State: <u>P289 036</u>	Acknowledgement of Receipt of Materials.	
d. Phone No.: _____	n. <u>[Signature]</u> Driver Signature	<u>012610</u> Shipment Date	
e. Truck No.: _____	Acknowledgement of Receipt of Materials.		
f. Vehicle License No./State: _____	g. _____ Driver Signature		<u>012610</u> Shipment Date

Section III DESTINATION (Generator completes a-d; destination site completes e-f)

a. Site Name: Veolia ES Wayne County Landfill, Inc.
 b. Physical Address: State Highway 15 West
Fairfield, IL 62837
 c. Phone No.: 618-842-4294
 d. Mailing Address: RR 1 Box 214, Fairfield, IL 62837
IEPA Site No. 1995-416-LF
 e. Discrepancy Indication Space: _____
 I hereby certify that the above named material has been accepted and to the best of my knowledge the foregoing is true and accurate.
 f. Glenda Keortge Name of Authorized Agent
Glenda Keortge Signature
012610 Receipt Date

* Shipper refers to the company which owns, leases, operates, controls, or supervises the facility being demolished or renovated, or the demolition or renovation operation, or both.

WHITE - Destination Retain CANARY - Return to Generator PINK - Transporter Retain GOLD - Generator Retain

6

No. 03017

Section I: GENERATOR (Generator completes all of Section I)

a. Generator Name: MARTIN & BAYLEY
 b. Generating Location: CROSSVILLE, IL
 c. Address: P.O. Box 385
 d. Address: 109 S. State St.
CARME, ILLINOIS 62821
Crossville, IL 62827
 e. Phone No.: (618) 302-2334
 f. Phone No.: (618) 966-3461
 If owner of the generating facility differs from the generator, provide:
 g. Owner's Name: _____
 h. Owner's Phone No.: _____
 i. Waste Profile No.: VWL 10001
 j. Description of Waste: Petroleum contaminated soil -
non-haz by EPA desig.

	Quantity	Units	TYPE
k. Quantity - Ld 1	115	Y	T
Quantity - Ld 2	15	Y	T
Quantity - Ld 3	15	Y	T
Quantity - Ld 4	15	Y	T

TYPE
D - DRUM
T - TRUCK
O - OTHER
UNITS
Y - YARDS
O - OTHER

*GENERATOR'S CERTIFICATION: I hereby certify that the above named material is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations; **AND, if the waste is a treatment residue of a previously restricted hazardous waste** subject to the Land Disposal Restrictions, I certify and warrant that the waste has been treated in accordance with the requirements of 40 CFR Part 268 and is no longer a hazardous waste as defined by 40 CFR Part 261.

TOTAL VOLUME
67.27 Ton

Bryan Williams Generator Authorized Agent Name
Bryan Williams Signature
012610 Shipment Date

Section II: TRANSPORTER (Generator completes a-d; Transporter I complete c-g; Transporter II complete h-n)

TRANSPORTER I
 a. Name: Jeff Cousewik, Inc
 b. Address: 16153 East 1100 Road
Mt. Carmel, Illinois 62663
 c. Driver Name/Title: _____
 d. Phone No.: (618) 262-4933 PRINT/TYPE e. Truck No.: 9
 f. Vehicle License No./State: P21 875 IL
 Acknowledgement of Receipt of Materials.
 g. [Signature] Driver Signature
012610 Shipment Date

TRANSPORTER II
 h. Name: _____
 i. Address: _____
 j. Driver Name/Title: _____ PRINT/TYPE
 k. Phone No.: _____ I. Truck No.: _____
 m. Vehicle License No./State: _____
 Acknowledgement of Receipt of Materials.
 n. _____ Driver Signature
 _____ Shipment Date

Section III: DESTINATION (Generator completes a-d; destination site completes e-f)

a. Site Name: Veolia ES Wayne County Landfill, Inc.
 c. Phone No.: 618-842-4294
 b. Physical Address: State Highway 15 West
 d. Mailing Address: RR 1 Box 214, Fairfield, IL 62837
Fairfield, IL 62837
 IEPA Site No. 1995-416-LF
 e. Discrepancy Indication Space: _____

I hereby certify that the above named material has been accepted and to the best of my knowledge the foregoing is true and accurate.

f. Blenda Keortge Name of Authorized Agent
Blenda Keortge Signature
012610 Receipt Date

* Shipper refers to the company which owns, leases, operates, controls, or supervises the facility being demolished or renovated, or the demolition or renovation operation, or both.

No. 03011

Section I GENERATOR (Generator completes all of Section I)

a. Generator Name: MARTIN & BAYLEY INC
 b. Generating Location: CROSSVILLE, IL
 c. Address: P.O. Box 385
 d. Address: 109 S. State St.
Crossville, IL 62821
 e. Phone No.: (618) 382-2334
 f. Phone No.: (618) 966-3461

If owner of the generating facility differs from the generator, provide:
 g. Owner's Name: _____
 h. Owner's Phone No.: _____

i. Waste Profile No.: VWL 10001
 j. Description of Waste: Petroleum contaminated soil
not reg by EPA descrip.

	Quantity	Units	TYPE
k. Quantity - Ld 1	<input type="text"/> <input type="text"/> <input type="text"/> 15	<input type="text"/> 4	<input type="text"/> T
Quantity - Ld 2	<input type="text"/> <input type="text"/> <input type="text"/> 15	<input type="text"/> 4	<input type="text"/> T
Quantity - Ld 3	<input type="text"/> <input type="text"/> <input type="text"/> 15	<input type="text"/> 4	<input type="text"/> T
Quantity - Ld 4	<input type="text"/> <input type="text"/> <input type="text"/> 15	<input type="text"/> 4	<input type="text"/> T

TYPE
 D - DRUM
 T - TRUCK
 O - OTHER

UNITS
 Y - YARDS
 O - OTHER

*GENERATOR'S CERTIFICATION: I hereby certify that the above named material is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations; AND, if the waste is a treatment residue of a previously restricted hazardous waste subject to the Land Disposal Restrictions, I certify and warrant that the waste has been treated in accordance with the requirements of 40 CFR Part 268 and is no longer a hazardous waste as defined by 40 CFR Part 261.

Bryan Williams Generator Authorized Agent Name
Bryan Williams Signature
012710 Shipment Date

19.80	TOTAL
22.11	VOLUME
22.93	
16.70	
<u>81.54</u>	

Section II TRANSPORTER (Generator completes a-d; Transporter I complete c-g; Transporter II complete h-n)

TRANSPORTER I	TRANSPORTER II
a. Name: <u>Jeff Gauswink, Inc</u>	h. Name: _____
b. Address: <u>16153 East 1100 Road</u> <u>Mt. Carmel IL 62823</u>	i. Address: _____
c. Driver Name/Title: <u>Josh Johnson</u>	j. Driver Name/Title: _____
d. Phone No.: <u>(618) 262-4933</u> PRINT/TYPE	k. Phone No.: _____ PRINT/TYPE
e. Truck No.: <u>9</u>	l. Truck No.: _____
f. Vehicle License No./State: <u>P21875 IL</u>	m. Vehicle License No./State: _____
Acknowledgement of Receipt of Materials.	
g. <u>Josh Johnson</u> Driver Signature	n. _____ Driver Signature
<u>012710</u> Shipment Date	_____ Shipment Date

Section III DESTINATION (Generator completes a-d; destination site completes e-f)

a. Site Name: Veolia ES Wayne County Landfill, Inc.
 b. Physical Address: State Highway 15 West
Fairfield, IL 62837
 c. Phone No.: 618-842-4294
 d. Mailing Address: RR 1 Box 214, Fairfield, IL 62837
IEPA Site No. 1995-416-LF

e. Discrepancy Indication Space: _____

I hereby certify that the above named material has been accepted and to the best of my knowledge the foregoing is true and accurate.

f. Glanda Keortze Name of Authorized Agent
Glanda Keortze Signature
012710 Receipt Date

No. 03000

Section I GENERATOR (Generator completes all of Section I)

a. Generator Name: MARTIN and Bayley, Inc b. Generating Location: Crossville, IL
 c. Address: P.O. Box 385 d. Address: 109 S. State St
Carmi, Illinois 62621 Crossville, IL 62627
 e. Phone No.: (618) 382-2334 f. Phone No.: (618) 966-3461
 If owner of the generating facility differs from the generator, provide:
 g. Owner's Name: _____
 h. Owner's Phone No.: _____

i. Waste Profile No.: VWL 10001
 j. Description of Waste: Petroleum contaminated soil
with h22 by EPA designation
 k. Quantity - Ld 1:

Quantity	Units	TYPE
<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> 15	<input type="text"/> <input type="text"/> 4	<input type="text"/> T

 Quantity - Ld 2:

<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> 15	<input type="text"/> <input type="text"/> 4	<input type="text"/> T
--	---	------------------------

 Quantity - Ld 3:

<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> 15	<input type="text"/> <input type="text"/> 4	<input type="text"/> T
--	---	------------------------

 Quantity - Ld 4:

<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> 15	<input type="text"/> <input type="text"/> 4	<input type="text"/> T
--	---	------------------------

TYPE	
D	DRUM
T	TRUCK
O	OTHER
UNITS	
Y	YARDS
O	OTHER

*GENERATOR'S CERTIFICATION: I hereby certify that the above named material is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations; AND, if the waste is a treatment residue of a previously restricted hazardous waste subject to the Land Disposal Restrictions, I certify and warrant that the waste has been treated in accordance with the requirements of 40 CFR Part 268 and is no longer a hazardous waste as defined by 40 CFR Part 261.
 TOTAL VOLUME: 82.52
 Generator Authorized Agent Name: Bryan Williams Signature: Bryan Williams Shipment Date: 012710

Section II TRANSPORTER (Generator completes a-d; Transporter I complete e-g; Transporter II complete h-n)

TRANSPORTER I
 a. Name: Jeff Gausewick, Inc.
 b. Address: 16153 East 1100 Road
Mt. Carmel IL 62663
 c. Driver Name/Title: _____
 d. Phone No.: _____ e. Truck No.: _____
 f. Vehicle License No./State: _____
 Acknowledgement of Receipt of Materials.
 g. Driver Signature: [Signature] Shipment Date: 012710

TRANSPORTER II
 h. Name: _____
 i. Address: _____
 j. Driver Name/Title: _____
 k. Phone No.: _____ l. Truck No.: _____
 m. Vehicle License No./State: _____
 Acknowledgement of Receipt of Materials.
 n. Driver Signature: _____ Shipment Date: _____

Section III DESTINATION (Generator completes a-d; destination site completes e-f)

a. Site Name: Veolia ES Wayne County Landfill, Inc. c. Phone No.: 618-842-4294
 b. Physical Address: State Highway 15 West d. Mailing Address: RR 1 Box 214, Fairfield, IL 62837
Fairfield, IL 62837 IEPA Site No. 1995-416-LF
 e. Discrepancy Indication Space: _____

I hereby certify that the above named material has been accepted and to the best of my knowledge the foregoing is true and accurate.
 f. Name of Authorized Agent: [Signature] Signature: [Signature] Receipt Date: 012710

* Shipper refers to the company which owns, leases, operates, controls, or supervises the facility being demolished or renovated, or the demolition or renovation operation, or both.
 WHITE - Destination Retain CANARY - Return to Generator PINK - Transporter Retain GOLD - Generator Retain

No. 03017

Section I GENERATOR (Generator completes all of Section I)

a. Generator Name: MARTIN AND BAYEN INC b. Generating Location: Crossville IL
 c. Address: P.O. Box 365 d. Address: 109 S. State Street
Carmi, IL Crossville, IL 62827
 e. Phone No.: (618) 382-2334 f. Phone No.: (618) 966-3416

If owner of the generating facility differs from the generator, provide:
 g. Owner's Name: _____
 h. Owner's Phone No.: _____

i. Waste Profile No.: VWL 10001
 j. Description of Waste: Petroleum contaminated soil

	Quantity	Units	TYPE
k. Quantity - Ld 1	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> 15	<input type="text"/> <input type="text"/> 4	<input type="text"/> T
Quantity - Ld 2	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>	<input type="text"/> <input type="text"/>	<input type="text"/>
Quantity - Ld 3	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>	<input type="text"/> <input type="text"/>	<input type="text"/>
Quantity - Ld 4	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>	<input type="text"/> <input type="text"/>	<input type="text"/>

TYPE
 D - DRUM
 T - TRUCK
 O - OTHER

UNITS
 Y - YARDS
 O - OTHER

*GENERATOR'S CERTIFICATION: I hereby certify that the above named material is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations; AND, if the waste is a treatment residue of a previously restricted hazardous waste subject to the Land Disposal Restrictions, I certify and warrant that the waste has been treated in accordance with the requirements of 40 CFR Part 268 and is no longer a hazardous waste as defined by 40 CFR Part 261.

TOTAL VOLUME
18.84

Boman Williams Boman Williams 01/27/10
 Generator Authorized Agent Name Signature Shipment Date

Section II TRANSPORTER (Generator completes a-d; Transporter I completes e-g; Transporter II completes h-n)

TRANSPORTER I	TRANSPORTER II
a. Name: _____	h. Name: <u>CH Cantor and Son</u>
b. Address: _____	i. Address: _____ <u>MW Shoals IL</u>
c. Driver Name/Title: _____	j. Driver Name/Title: <u>Les Cline</u>
d. Phone No.: _____ e. Truck No.: _____	k. Phone No.: <u>(618) 846 5316</u> l. Truck No.: <u>40</u>
f. Vehicle License No./State: _____	m. Vehicle License No./State: <u>P289036 IL</u>
Acknowledgement of Receipt of Materials.	Acknowledgement of Receipt of Materials.
g. Driver Signature _____	n. Driver Signature _____
<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>
Shipment Date	Shipment Date

Section III DESTINATION (Generator completes a-d; destination site completes e-f)

a. Site Name: Veolia ES Wayne County Landfill, Inc. c. Phone No.: 618-842-4294
 b. Physical Address: State Highway 15 West d. Mailing Address: RR 1 Box 214, Fairfield, IL 62837
Fairfield, IL 62837 IEPA Site No. 1995-416-LF

e. Discrepancy Indication Space: _____

I hereby certify that the above named material has been accepted and to the best of my knowledge the foregoing is true and accurate.

f. Glenda Keotze Glenda Keotze 01/27/10
 Name of Authorized Agent Signature Receipt Date

* Shipper refers to the company which owns, leases, operates, controls, or supervises the facility being demolished or renovated, or the demolition or renovation operation, or both.

WHITE - Destination Retain CANARY - Return to Generator PINK - Transporter Retain GOLD - Generator Retain

No. 0300

Section I: GENERATOR (Generator completes all of Section I)

a. Generator Name: MARTIN AND BAILEY Inc b. Generating Location: Crossville TN
 c. Address: PO Box 385 d. Address: 109 S. STATE ST
CADAM, TN 62821 Crossville TN 62827
 e. Phone No.: (618) 382-2334 f. Phone No.: (618) 966-3461

If owner of the generating facility differs from the generator, provide:
 g. Owner's Name: _____
 h. Owner's Phone No.: _____

i. Waste Profile No.: VWL10001
 j. Description of Waste: Petroleum contaminated soil

Quantity	Units	TYPE
Quantity - Ld 1	<input type="text" value="15"/> <input type="text" value="9"/>	<input checked="" type="checkbox"/> T
Quantity - Ld 2	<input type="text"/> <input type="text"/>	<input type="checkbox"/>
Quantity - Ld 3	<input type="text"/> <input type="text"/>	<input type="checkbox"/>
Quantity - Ld 4	<input type="text"/> <input type="text"/>	<input type="checkbox"/>

TYPE
 D - DRUM
 T - TRUCK
 O - OTHER

UNITS
 Y - YARDS
 O - OTHER

*GENERATOR'S CERTIFICATION: I hereby certify that the above named material is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations; **AND, if the waste is a treatment residue of a previously restricted hazardous waste** subject to the Land Disposal Restrictions, I certify and warrant that the waste has been treated in accordance with the requirements of 40 CFR Part 268 and is no longer a hazardous waste as defined by 40 CFR Part 261.

TOTAL VOLUME

21.80

Brian Williams [Signature] 012710
 Generator Authorized Agent Name Signature Shipment Date

Section II: TRANSPORTER (Generator completes a-d; Transporter I complete e-g; Transporter II complete h-n)

TRANSPORTER I	TRANSPORTER II
a. Name: _____	h. Name: <u>CH Carter & Son</u>
b. Address: _____	i. Address: <u>2510 CO RA 225 East</u> <u>MW Smith, TN 62842</u>
c. Driver Name/Title: _____	j. Driver Name/Title: <u>Derek Lee</u>
d. Phone No.: _____ e. Truck No.: _____	k. Phone No.: <u>(618) 896-3310</u> l. Truck No.: <u>43</u>
f. Vehicle License No./State: _____	m. Vehicle License No./State: <u>PL4 3395 IL</u>
Acknowledgement of Receipt of Materials.	Acknowledgement of Receipt of Materials.
g. _____ Driver Signature	n. <u>Derek Lee</u> Driver Signature
<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> Shipment Date	<u>012710</u> Shipment Date

Section III: DESTINATION (Generator completes a-d; destination site completes e-f)

a. Site Name: Veolia ES Wayne County Landfill, Inc. c. Phone No.: 618-842-4294
 b. Physical Address: State Highway 15 West d. Mailing Address: RR 1 Box 214, Fairfield, IL 62837
Fairfield, IL 62837 IEPA Site No. 1995-416-LF

e. Discrepancy Indication Space: _____

I hereby certify that the above named material has been accepted and to the best of my knowledge the foregoing is true and accurate.

f. Blenda Keortge [Signature] 012710
 Name of Authorized Agent Signature Receipt Date

* Shipper refers to the company which owns, leases, operates, controls, or supervises the facility being demolished or renovated, or the demolition or renovation operation, or both.

No. 03010

Section I: GENERATOR (Generator completes all of Section I)

a. Generator Name: MARTIN & BAYLEY, INC b. Generating Location: Crossville IL
 c. Address: P.O. Box 385 d. Address: 109 S. State St.
Carmi, Illinois 62821 Crossville, IL 62827
 e. Phone No.: (618) 382-2334 f. Phone No.: (618) 966-3861

If owner of the generating facility differs from the generator, provide:
 g. Owner's Name: _____
 h. Owner's Phone No.: _____

i. Waste Profile No.: VWL 1000
 j. Description of Waste: Petroleum contaminated soil

Quantity	Units	TYPE
Quantity - Ld 1	<input type="text" value="115"/>	<input checked="" type="checkbox"/> T
Quantity - Ld 2	<input type="text"/>	<input type="checkbox"/>
Quantity - Ld 3	<input type="text"/>	<input type="checkbox"/>
Quantity - Ld 4	<input type="text"/>	<input type="checkbox"/>

TYPE
 D - DRUM
 T - TRUCK
 O - OTHER

UNITS
 Y - YARDS
 O - OTHER

*GENERATOR'S CERTIFICATION: I hereby certify that the above named material is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations; **AND, if the waste is a treatment residue of a previously restricted hazardous waste** subject to the Land Disposal Restrictions, I certify and warrant that the waste has been treated in accordance with the requirements of 40 CFR Part 268 and is no longer a hazardous waste as defined by 40 CFR Part 261.

TOTAL VOLUME
18.54

Bryan Williams Bryan Williams 012710
 Generator Authorized Agent Name Signature Shipment Date

Section II: TRANSPORTER (Generator completes a-d; Transporter I complete e-g; Transporter II complete h-n)

TRANSPORTER I	TRANSPORTER II
a. Name: _____	h. Name: <u>CHI Carter & Son</u>
b. Address: _____	i. Address: <u>Mill Shoals IL</u>
c. Driver Name/Title: _____	j. Driver Name/Title: <u>DOUG FLY</u>
d. Phone No.: _____ e. Truck No.: _____	k. Phone No.: <u>618 996 5710</u> l. Truck No.: <u>38</u>
f. Vehicle License No./State: _____	m. Vehicle License No./State: <u>P43119 IL</u>
Acknowledgement of Receipt of Materials.	Acknowledgement of Receipt of Materials.
g. Driver Signature _____	n. Driver Signature _____
<input type="text"/>	<input type="text" value="012710"/>
Shipment Date	Shipment Date

Section III: DESTINATION (Generator completes a-d; destination site completes e-f)

a. Site Name: Veolia ES Wayne County Landfill, Inc. c. Phone No.: 618-842-4294
 b. Physical Address: State Highway 15 West d. Mailing Address: RR 1 Box 214, Fairfield, IL 62837
Fairfield, IL 62837 IEPA Site No. 1995-416-LF

e. Discrepancy Indication Space: _____

I hereby certify that the above named material has been accepted and to the best of my knowledge the foregoing is true and accurate.

f. Glenda Keortge Glenda Keortge 012710
 Name of Authorized Agent Signature Receipt Date

* Shipper refers to the company which owns, leases, operates, controls, or supervises the facility being demolished or renovated, or the demolition or renovation operation, or both.

WHITE - Destination Retain CANARY - Return to Generator PINK - Transporter Retain GOLD - Generator Retain

No. 03010

Section I: GENERATOR (Generator completes all of Section I)

a. Generator Name: Martin and Bailey Inc
 b. Generating Location: Crossville IL
 c. Address: P.O. Box 305
 d. Address: 109 South State St
Crossville IL 62827
 e. Phone No.: (618) 382-2334
 f. Phone No.: (618) 966-3461

If owner of the generating facility differs from the generator, provide:
 g. Owner's Name: _____
 h. Owner's Phone No.: _____

i. Waste Profile No.: VWL 10001
 j. Description of Waste: Petroleum contaminated soil

	Quantity	Units	TYPE
k. Quantity - Ld 1	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> 15	<input type="text"/> <input type="text"/> 9	<input type="text"/> <input type="text"/> T
Quantity - Ld 2	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>	<input type="text"/> <input type="text"/>	<input type="text"/> <input type="text"/>
Quantity - Ld 3	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>	<input type="text"/> <input type="text"/>	<input type="text"/> <input type="text"/>
Quantity - Ld 4	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>	<input type="text"/> <input type="text"/>	<input type="text"/> <input type="text"/>

TYPE
 D - DRUM
 T - TRUCK
 O - OTHER

UNITS
 Y - YARDS
 O - OTHER

*GENERATOR'S CERTIFICATION: I hereby certify that the above named material is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations; **AND, if the waste is a treatment residue of a previously restricted hazardous waste** subject to the Land Disposal Restrictions, I certify and warrant that the waste has been treated in accordance with the requirements of 40 CFR Part 268 and is no longer a hazardous waste as defined by 40 CFR Part 261.

TOTAL VOLUME
18⁹²

Bryan Williams Thomas Williams 012710
 Generator Authorized Agent Name Signature Shipment Date

Section II: TRANSPORTER (Generator completes a-d; Transporter I complete c-g; Transporter II complete h-n)

TRANSPORTER I	TRANSPORTER II
a. Name: _____	h. Name: <u>C. H. Carter and Son</u>
b. Address: _____	i. Address: <u>2510 Co Rd 225 East</u> <u>Mill Shoals IL 62862</u>
c. Driver Name/Title: _____	j. Driver Name/Title: <u>Thomas Connor</u>
d. Phone No.: _____ e. Truck No.: _____	k. Phone No.: <u>(618) 896-5316</u> l. Truck No.: <u>36</u>
f. Vehicle License No./State: _____	m. Vehicle License No./State: <u>P222616 IL</u>
Acknowledgement of Receipt of Materials.	Acknowledgement of Receipt of Materials.
g. _____ Driver Signature	n. <u>Thomas Connor</u> Driver Signature
<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>	<u>012710</u> Shipment Date

Section III: DESTINATION (Generator completes a-d; destination site completes e-f)

a. Site Name: Veolia ES Wayne County Landfill, Inc. c. Phone No.: 618-842-4294
 b. Physical Address: State Highway 15 West d. Mailing Address: RR 1 Box 214, Fairfield, IL 62837
Fairfield, IL 62837 IEPA Site No. 1995-416-LF

e. Discrepancy Indication Space: _____

I hereby certify that the above named material has been accepted and to the best of my knowledge the foregoing is true and accurate.

f. Glenda Keotge Glenda Keotge 012710
 Name of Authorized Agent Signature Receipt Date

* Shipper refers to the company which owns, leases, operates, controls, or supervises the facility being demolished or renovated, or the demolition or renovation operation, or both.

WHITE - Destination Retain CANARY - Return to Generator PINK - Transporter Retain GOLD - Generator Retain

No. 03090

Section I GENERATOR (Generator completes all of Section I)

a. Generator Name: Martin and Bailey Inc
 b. Generating Location: Grossville, IL
 c. Address: P.O. Box 385
 d. Address: 109 S. State St
Carmel IL 62421
Grossville IL 62427
 e. Phone No.: 618) 382-2334
 f. Phone No.: (618) 966-3461
 If owner of the generating facility differs from the generator, provide:
 g. Owner's Name: _____
 h. Owner's Phone No.: _____
 i. Waste Profile No.: VWL 1008
 j. Description of Waste: Pet Contaminated Soil

Quantity	Units	TYPE
Quantity - Ld 1	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> 15	<input type="text"/> Y <input type="text"/> T
Quantity - Ld 2	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> 15	<input type="text"/> Y <input type="text"/> T
Quantity - Ld 3	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> 15	<input type="text"/> Y <input type="text"/> T
Quantity - Ld 4	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> 15	<input type="text"/> Y <input type="text"/> T

TYPE
 D - DRUM
 T - TRUCK
 O - OTHER
 UNITS
 Y - YARDS
 O - OTHER

*GENERATOR'S CERTIFICATION: I hereby certify that the above named material is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations; AND, if the waste is a treatment residue of a previously restricted hazardous waste subject to the Land Disposal Restrictions, I certify and warrant that the waste has been treated in accordance with the requirements of 40 CFR Part 268 and is no longer a hazardous waste as defined by 40 CFR Part 261.

Bryan Williams Generator Authorized Agent Name
Bryan Williams Signature
012810 Shipment Date

18.69 T TOTAL
 23.72 T VOLUME
 27.50 T 9503
 2512

Section II TRANSPORTER (Generator completes a-d; Transporter I complete c-g; Transporter II complete h-n)

TRANSPORTER I	TRANSPORTER II
a. Name: <u>Jeff Gauseville Inc</u>	h. Name: _____
b. Address: <u>Mt Carmel IL</u>	i. Address: _____
c. Driver Name/Title: <u>Sash Johnson</u>	j. Driver Name/Title: _____
d. Phone No.: <u>(618) 262-4933</u> e. Truck No.: <u>9</u>	k. Phone No.: _____ l. Truck No.: _____
f. Vehicle License No./State: <u>P 21 875</u>	m. Vehicle License No./State: _____
Acknowledgement of Receipt of Materials.	
g. <u>[Signature]</u> Driver Signature <u>062810</u> Shipment Date	n. _____ Driver Signature _____ Shipment Date

Section III DESTINATION (Generator completes a-d; destination site completes e-f)

a. Site Name: Veolia ES Wayne County Landfill, Inc. c. Phone No.: 618-842-4294
 b. Physical Address: State Highway 15 West d. Mailing Address: RR 1 Box 214, Fairfield, IL 62837
Fairfield, IL 62837 IEPA Site No. 1995-416-LF
 e. Discrepancy Indication Space: _____
 I hereby certify that the above named material has been accepted and to the best of my knowledge the foregoing is true and accurate.

f. Glenda Keortge Name of Authorized Agent Glenda Keortge Signature 012810 Receipt Date

* Shipper refers to the company which owns, leases, operates, controls, or supervises the facility being demolished or renovated, or the demolition or renovation operation, or both.

WHITE - Destination Retain CANARY - Return to Generator PINK - Transporter Retain GOLD - Generator Retain

No. 03010

Section I: GENERATOR (Generator completes all of Section I)

a. Generator Name: MW Inc and Bayley Inc
 b. Generating Location: Cornville IA
 c. Address: P.O. Box 385
 d. Address: 109 S State St
Cornville IA 62821
 e. Phone No.: 616 302-2334
 f. Phone No.: 616 966-3961
 If owner of the generating facility differs from the generator, provide:
 g. Owner's Name: _____
 h. Owner's Phone No.: _____
 i. Waste Profile No.: VWL 10001
 j. Description of Waste: Pet Cont. Soil

Quantity	Units	TYPE
Quantity - Ld 1: [][][][] 1 5	[] Y	[] T
Quantity - Ld 2: [][][][]	[]	[]
Quantity - Ld 3: [][][][]	[]	[]
Quantity - Ld 4: [][][][]	[]	[]

TYPE
 D - DRUM
 T - TRUCK
 O - OTHER

UNITS
 Y - YARDS
 O - OTHER

*GENERATOR'S CERTIFICATION: I hereby certify that the above named material is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations; AND, if the waste is a treatment residue of a previously restricted hazardous waste subject to the Land Disposal Restrictions, I certify and warrant that the waste has been treated in accordance with the requirements of 40 CFR Part 268 and is no longer a hazardous waste as defined by 40 CFR Part 261.

Bryan Williams Generator Authorized Agent Name Bryan Williams Signature 012810 Shipment Date

TOTAL VOLUME: 57.24

Section II: TRANSPORTER (Generator completes a-d; Transporter I complete c-g; Transporter II complete h-n)

TRANSPORTER I	TRANSPORTER II
a. Name: <u>Jeff Gauswitz, Inc</u>	h. Name: _____
b. Address: <u>16153 E. 1100 Rd.</u> <u>MW Camel, IA</u>	i. Address: _____
c. Driver Name/Title: <u>Kelly D. Harbor</u>	j. Driver Name/Title: _____
d. Phone No.: <u>(615) 262-4933</u> e. Truck No.: <u>10</u>	k. Phone No.: _____ l. Truck No.: _____
f. Vehicle License No./State: _____	m. Vehicle License No./State: _____
Acknowledgement of Receipt of Materials: <u>Kelly D. Harbor</u> Driver Signature <u>012810</u> Shipment Date	Acknowledgement of Receipt of Materials: _____ n. Driver Signature _____ Shipment Date

Section III: DESTINATION (Generator completes a-d; destination site completes e-f)

a. Site Name: Veolia ES Wayne County Landfill, Inc. c. Phone No.: 618-842-4294
 b. Physical Address: State Highway 15 West d. Mailing Address: RR 1 Box 214, Fairfield, IL 62837
Fairfield, IL 62837 IEPA Site No. 1995-416-LF
 e. Discrepancy Indication Space: _____
 I hereby certify that the above named material has been accepted and to the best of my knowledge the foregoing is true and accurate.
 f. Glenda Keortze Name of Authorized Agent Glenda Keortze Signature 012810 Receipt Date

* Shipper refers to the company which owns, leases, operates, controls, or supervises the facility being demolished or renovated, or the demolition or renovation operation, or both.

WHITE - Destination Retain CANARY - Return to Generator PINK - Transporter Retain GOLD - Generator Retain

No. 03022

Section I GENERATOR (Generator completes all of Section I)

a. Generator Name: Martin and Bayley Inc b. Generating Location: Crossville FI
 c. Address: P.O. Box 305 d. Address: 1095 State St
Crossville, TN 62821 Crossville FI 62827
 e. Phone No.: (615) 382-2334 f. Phone No.: (615) 966-3461

If owner of the generating facility differs from the generator, provide:
 g. Owner's Name: _____
 h. Owner's Phone No.: _____
 i. Waste Profile No.: VHL 1001
 j. Description of Waste: pet. cont. soil

	Quantity	Units	TYPE
k. Quantity - Ld 1	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>	<input type="text"/> <input type="text"/> <input type="text"/>	<input type="text"/> <input type="text"/>
Quantity - Ld 2	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>	<input type="text"/> <input type="text"/> <input type="text"/>	<input type="text"/> <input type="text"/>
Quantity - Ld 3	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>	<input type="text"/> <input type="text"/> <input type="text"/>	<input type="text"/> <input type="text"/>
Quantity - Ld 4	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>	<input type="text"/> <input type="text"/> <input type="text"/>	<input type="text"/> <input type="text"/>

TYPE
 D - DRUM
 T - TRUCK
 O - OTHER
 UNITS
 Y - YARDS
 O - OTHER

*GENERATOR'S CERTIFICATION: I hereby certify that the above named material is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations; AND, if the waste is a treatment residue of a previously restricted hazardous waste subject to the Land Disposal Restrictions, I certify and warrant that the waste has been treated in accordance with the requirements of 40 CFR Part 268 and is no longer a hazardous waste as defined by 40 CFR Part 261.

Bryan Williams Generator Authorized Agent Name Bryan Williams Signature 012610 Shipment Date

Section II TRANSPORTER (Generator completes a-d; Transporter I complete e-g; Transporter II complete h-n)

TRANSPORTER I
 a. Name: _____
 b. Address: _____
 c. Driver Name/Title: _____
 d. Phone No.: _____ e. Truck No.: _____
 f. Vehicle License No./State: _____
 Acknowledgement of Receipt of Materials.
 g. Driver Signature: _____ Shipment Date: _____

TRANSPORTER II
 h. Name: CH Center & Son
 i. Address: Mill Shoals, TN
 j. Driver Name/Title: Derek Lee
 k. Phone No.: (615) 896-5316 l. Truck No.: 43
 m. Vehicle License No./State: P443395 IL
 Acknowledgement of Receipt of Materials.
 n. Driver Signature: Derek Lee Shipment Date: 012810

Section III DESTINATION (Generator completes a-d; destination site completes e-f)

a. Site Name: Veolia ES Wayne County Landfill, Inc. c. Phone No.: 618-842-4294
 b. Physical Address: State Highway 15 West d. Mailing Address: RR 1 Box 214, Fairfield, IL 62837
Fairfield, IL 62837 IEPA Site No.: 1995-416-LF
 e. Discrepancy Indication Space: _____

I hereby certify that the above named material has been accepted and to the best of my knowledge the foregoing is true and accurate.

f. Glenda Keortge Name of Authorized Agent Glenda Keortge Signature 012810 Receipt Date

* Shipper refers to the company which owns, leases, operates, controls, or supervises the facility being demolished or renovated, or the demolition or renovation operation, or both.

No. 03007

a. Generator Name: MARTIN & BAYLEY INC
 c. Address: P.O. Box 365
Carmi, IL 62821
 e. Phone No.: (618) 382-2334

b. Generating Location: Crossville IL
 d. Address: 1095 State St.
Crossville, IL 62827
 f. Phone No.: (618) 966-3961

If owner of the generating facility differs from the generator, provide:
 g. Owner's Name: _____
 h. Owner's Phone No.: _____

i. Waste Profile No.: VWL 10001
 j. Description of Waste: Petroleum Cont. Soil

	Quantity	Units	TYPE
k. Quantity - Ld 1	<input type="text" value="1"/> <input type="text" value="9"/>	<input type="text" value="4"/>	<input type="text" value="T"/>
Quantity - Ld 2	<input type="text" value="1"/> <input type="text" value="5"/>	<input type="text" value="4"/>	<input type="text" value="T"/>
Quantity - Ld 3	<input type="text" value="1"/> <input type="text" value="5"/>	<input type="text" value="4"/>	<input type="text" value="T"/>
Quantity - Ld 4	<input type="text" value=""/>	<input type="text" value=""/>	<input type="text" value=""/>

TYPE
 D - DRUM
 T - TRUCK
 O - OTHER

UNITS
 Y - YARDS
 O - OTHER

*GENERATOR'S CERTIFICATION: I hereby certify that the above named material is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations; **AND, if the waste is a treatment residue of a previously restricted hazardous waste** subject to the Land Disposal Restrictions, I certify and warrant that the waste has been treated in accordance with the requirements of 40 CFR Part 268 and is no longer a hazardous waste as defined by 40 CFR Part 261.

22.08 T TOTAL VOLUME
 19.86 T
 31.72 T 81.89
 18.23 T

Brynn Williams (Signature) Brynn Williams (Signature) 012810 (Shipment Date)
 Generator Authorized Agent Name Signature Shipment Date

TRANSPORTER I
 a. Name: _____
 b. Address: _____
 c. Driver Name/Title: _____
 d. Phone No.: _____ e. Truck No.: _____
 f. Vehicle License No./State: _____
 Acknowledgement of Receipt of Materials.
 g. _____
 Driver Signature
 Driver Signature Shipment Date

TRANSPORTER II
 h. Name: C.H. Carter & Son
 i. Address: Mill Shoals IL
 j. Driver Name/Title: Los Cline
 k. Phone No.: (618) 896 5316 l. Truck No.: 40
 m. Vehicle License No./State: P289 036 IL
 Acknowledgement of Receipt of Materials.
 n. [Signature]
 Driver Signature 012810 (Shipment Date)
 Driver Signature Shipment Date

a. Site Name: Veolia ES Wayne County Landfill, Inc. c. Phone No.: 618-842-4294
 b. Physical Address: State Highway 15 West d. Mailing Address: RR 1 Box 214, Fairfield, IL 62837
Fairfield, IL 62837 **IEPA Site No. 1995-416-LF**
 e. Discrepancy Indication Space: _____

I hereby certify that the above named material has been accepted and to the best of my knowledge the foregoing is true and accurate.

f. Blenda Keortge (Signature) Blenda Keortge (Signature) 012810 (Receipt Date)
 Name of Authorized Agent Signature Receipt Date

* Shipper refers to the company which owns, leases, operates, controls, or supervises the facility being demolished or renovated, or the demolition or renovation operation, or both.

WHITE - Destination Retain CANARY - Return to Generator PINK - Transporter Retain GOLD - Generator Retain

No. 03007

Section I GENERATOR (Generator completes all of Section I)

a. Generator Name: MARTIN & BAILEY Inc
 b. Generating Location: Crossville IL
 c. Address: P.O. Box 385
 d. Address: 1095 State St.
Carmi, IL 62821
Crossville, IL 62827
 e. Phone No.: (618) 382 2334
 f. Phone No.: (618) 966-3900
 If owner of the generating facility differs from the generator, provide:
 g. Owner's Name: _____
 h. Owner's Phone No.: _____
 i. Waste Profile No.: VWL 10001
 j. Description of Waste: Petroleum Cont. Soil

Quantity	Units	TYPE
Quantity - Ld 1	<input type="text" value="13"/> <input type="text" value="4"/>	<input type="text" value="T"/>
Quantity - Ld 2	<input type="text" value="15"/> <input type="text" value="4"/>	<input type="text" value="T"/>
Quantity - Ld 3	<input type="text" value="15"/> <input type="text" value="4"/>	<input type="text" value="T"/>
Quantity - Ld 4	<input type="text" value=""/> <input type="text" value=""/>	<input type="text" value=""/>

TYPE
 D - DRUM
 T - TRUCK
 O - OTHER
 UNITS
 Y - YARDS
 O - OTHER

*GENERATOR'S CERTIFICATION: I hereby certify that the above named material is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations; **AND, if the waste is a treatment residue of a previously restricted hazardous waste** subject to the Land Disposal Restrictions, I certify and warrant that the waste has been treated in accordance with the requirements of 40 CFR Part 268 and is no longer a hazardous waste as defined by 40 CFR Part 261.

22.08 T TOTAL
19.86 T VOLUME
21.72 T

Bryan Williams Bryan Williams 01128110
 Generator Authorized Agent Name Signature Shipment Date

Section II TRANSPORTER (Generator completes a-d; Transporter I complete e-g; Transporter II complete h-n)

TRANSPORTER I	TRANSPORTER II
a. Name: _____	h. Name: <u>C.H. Carter & Son</u>
b. Address: _____	i. Address: <u>Mill Shoals IL</u>
c. Driver Name/Title: _____	j. Driver Name/Title: <u>Los Clark</u>
d. Phone No.: _____ e. Truck No.: _____	k. Phone No.: <u>(618) 896 5316</u> l. Truck No.: <u>40</u>
f. Vehicle License No./State: _____	m. Vehicle License No./State: <u>P289 096 IL</u>
Acknowledgement of Receipt of Materials. g. _____ Driver Signature <input type="text" value=""/> <input type="text" value=""/> <input type="text" value=""/> <input type="text" value=""/> Shipment Date	Acknowledgement of Receipt of Materials. n. <u>[Signature]</u> <u>01128110</u> Driver Signature Shipment Date

Section III DESTINATION (Generator completes a-d; destination site completes e-f)

a. Site Name: Veolia ES Wayne County Landfill, Inc.
 b. Physical Address: State Highway 15 West
Fairfield, IL 62837
 c. Phone No.: 618-842-4294
 d. Mailing Address: RR 1 Box 214, Fairfield, IL 62837
IEPA Site No. 1995-416-LF
 e. Discrepancy Indication Space: _____

I hereby certify that the above named material has been accepted and to the best of my knowledge the foregoing is true and accurate.

f. Glenda Keortze Glenda Keortze 01128110
 Name of Authorized Agent Signature Receipt Date

* Shipper refers to the company which owns, leases, operates, controls, or supervises the facility being demolished or renovated, or the demolition or renovation operation, or both.

WHITE - Destination Retain CANARY - Return to Generator PINK - Transporter Retain GOLD - Generator Retain

UNIVERSITY MICROFILMS
SERIALS ACQUISITION

DATE

FILE NO.

WASTE HANDLING PERMIT
EXEMPT

1 1-800-421-7666 000034673 FILE

PRIME GROCERY #131
109 SOUTH STATE HWY 1, GRIENVILLE, IL 62927

618-382-2324

ENVIRONMENTAL TECHNOLOGIES L.L.C. IN-R-000007982

ENVIRONMENTAL TECHNOLOGIES L.L.C.
8775 W. 52ND CRANDLER LN 47918 IN-R-000007982

813754818

DESCRIPTION	QTY	DATE	TIME	INITIALS
NON HAZARDOUS/NON REGULATED SLUDGE RECYCLED/NOT RECYCLED	001	07/11/99	08:00	AK

PG. 1 OF 1 NOT RECYCLED

GENERATOR CERTIFICATION STATEMENT: I hereby certify that the above information is true and correct to the best of my knowledge and belief. I understand that any false information provided may result in civil or criminal penalties.

Carol L. Jones (Signature)
07/11/99 (Date)

R.J. Shaffer (Signature)
07/11/99 (Date)

ENVIRONMENTAL TECHNOLOGIES L.L.C. (Company Name)
8775 W. 52ND CRANDLER LN (Address)
47918 (City/State/Zip)

GENERATED BY

PICKUP TICKET
CONSOLIDATED RECYCLING CO., INC.

6532

US EPA #IND098958283
 11210 SOLOMON ROAD
 TROY, IN 47588

P.O. NO. _____

REQ. NO. _____

812/547-7951-24 HOUR EMERGENCY NUMBER

LOAD NO. _____

DATE 1-26-10

CUSTOMER J. A. Gausewitz

Material Unloaded At:
 Consolidated Recycling Co., Inc.
 3909 Old Henderson Road
 Evansville, IN 47712
 EPA # INT190010025
 11210 Solomon Road Troy, IN 47588

ADDRESS 16153 East 1100 W.

CITY, STATE, ZIP MT. Carmel, IN

DESCRIPTION OF COMMODITY: DOT Hazardous Material DOT Non-Hazardous Material

Type of Waste city water #276 Product code No. _____

TRANSPORTATION per gal charge

Tractor/Unit No. 1611 Trailer No. _____

Driver Signature Tom Snyder

IN Permit No. _____ D.O.T. Placard No. _____

This is to certify that the above named materials are properly classified, described, packaged, marked and labeled, and are in proper condition for transportation according to the applicable regulations of the Department of Transportation.

J.S.
 (Initials)

CUSTOMER SIGNATURE

STATEMENT OF PRODUCT CONSTITUENTS

The undersigned supplier/seller hereby certifies under penalty of law that this product sold and/or delivered to CONSOLIDATED RECYCLING CO., INC. contains no HALOGENATED ORGANIC COMPOUNDS or other listed "HAZARDOUS WASTES" as defined by UNITED STATES EPA which are intentionally camouflaged or introduced in whole or in part of the "WASTE MATERIAL" being SOLD and/or DELIVERED by the SELLER.

Company J. A. Gausewitz Inc Date 1-26-10

Shipment Accepted by [Signature] (Signature) _____ (Print) _____

BUYER RECEIPT OF ABOVE GOODS CONSTITUTES ACCEPTANCE OF TERMS AND CONDITIONS ON REVERSE SIDE THEREOF

LAB	WEIGHTS	GALLONS
API _____	Gross Wt. _____	Into Tank NO. <u>Storage</u>
% BS&W <u>100%</u>	Tare _____	Metered: Yes _____ No <u>X</u>
Flash _____	Net Wt. _____	Gross Gallons <u>4500</u>
		Net Gallons _____

LAB REPORT NO. _____ ACCEPTED REJECTED BY [Signature]

EMERGENCY SPILL ASSISTANCE: TELL PHONE NUMBERS _____

PICKUP TICKET
CONSOLIDATED RECYCLING CO., INC.

6533

US EPA #IND098958283
11210 SOLOMON ROAD
TROY, IN 47588

P.O. NO. _____

REQ. NO. _____

812/547-7951-24 HOUR EMERGENCY NUMBER

LOAD NO. _____

DATE 1-26-10

(D)

CUSTOMER Jeff Guisevite

Material Unloaded At:
 Consolidated Recycling Co., Inc.
3909 Old Henderson Road
Evansville, IN 47712
EPA # INT190010025
 11210 Solomon Road Troy, IN 47388

ADDRESS 16153 EAST 1100 RD

CITY, STATE, ZIP MT. CAIN, IN

DESCRIPTION OF COMMODITY: DOT Hazardous Material DOT Non-Hazardous Material

Type of Waste city water at 76 per Product code No. _____

TRANSPORTATION gnc charge

Tractor/Unit No. 1611 Trailer No. _____

Driver Signature Tom Snyder

IN Permit No. _____ D.O.T. Placard No. _____

This is to certify that the above named materials are properly classified, described, packaged, marked and labeled, and are in proper condition for transportation according to the applicable regulations of the Department of Transportation.

T.S.
(Initials)

CUSTOMER SIGNATURE

STATEMENT OF PRODUCT CONSTITUENTS

The undersigned supplier/seller hereby certifies under penalty of law that this product sold and/or delivered to CONSOLIDATED RECYCLING CO., INC. contains no HALOGENATED ORGANIC COMPOUNDS or other listed "HAZARDOUS WASTES" as defined by UNITED STATES EPA which are intentionally camouflaged or introduced in whole or in part of the "WASTE MATERIAL" being SOLD and/or DELIVERED by the SELLER.

Company: J.P. Guisevite INC. Date: 1-26-10

Shipment Accepted by [Signature] (Signature) _____ (Print) _____

BUYS RECEIPT OF ABOVE GOODS CONSTITUTES ACCEPTANCE OF TERMS AND CONDITIONS ON REVERSE SIDE THEREOF

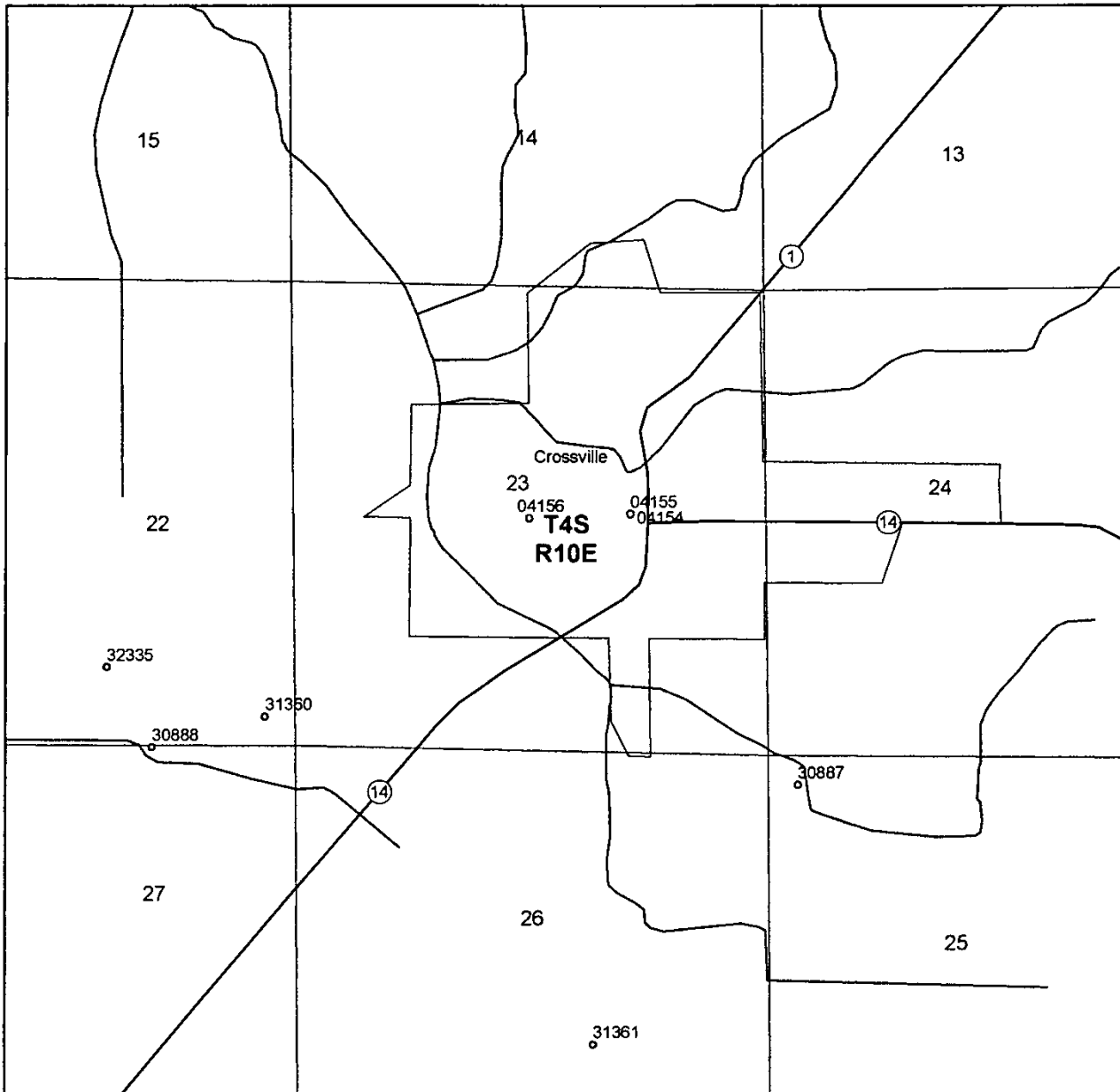
LAB	WEIGHTS	GALLONS
API _____	Gross Wt. _____	Into Tank NO. <u>Storage</u>
% BS&W <u>100%</u>	Tare _____	Metered: Yes ___ No <u>X</u>
Flash _____	Net Wt _____	Gross Gallons <u>245.0</u>
		Net Gallons _____

LAB REPORT NO. _____ ACCEPTED REJECTED BY: [Signature]

EMERGENCY SPILL ASSISTANCE TELEPHONE NUMBERS _____

26007

Exhibit E

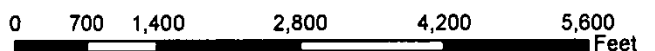


Explanation					
o	Water	⊗	D&A - Gas Show	⊘	Junked
×	Engineering	◇	D&A	◊	Temporarily Abandoned
•	Oil	⊗	Gas Injection	⊗	Observation
⊗	Oil & Gas	o	Gas Storage	⊗	Other Injection
⊗	Gas	•	Salt Water Disposal	⊗	Other Well Type
⊗	D&A - Oil Show	⊗	Water Injection	+	Unknown
⊗	D&A - Oil & Gas Show	△	Water Supply		

/ through any symbol indicates well is currently plugged

Illinois State Geological Survey

Questor: Custom Map



Scale: 1:20,236

Displayed data are based upon information supplied to the Illinois State Geological Survey (ISGS) and are not field verified. The ISGS does not guarantee the validity, accuracy, or completeness of these data.

January 4, 2010

Questor Data Extraction

11101

121933136000 Carter, Stan 22-4S-10E
White Speth, James SE SE SE
Well Status: WATER - Water Well
Comdate: 10/26/1990 Plugdate: TD: 49
Elevation: Permit #: 019390 Permit Date: 10/17/1990
Latitude: 38.155739 Longitude: -88.078836
Owner Address: R.R. #1 Crossville IL
Well Type: PRIV - Private Water Well
Water Bearing Formation: sand & gravel 35 to 48 ft
Static Water Level: 20 ft. below casing top of 1 ft. Hole Diam.:
Screen Diam.: 6 in. Screen Length: 10 ft. Slot: 20.00
Pumping Level: 48 ft. when pumping at 10 gpm for hours.
Casing and Liner Pipe: Diam. (in.) Kind and Weight From(ft)
6 ID SDR21 PVC PLASTIC -1 38
Driller's Log: 0 - 22 clay
22 - 25 quick sand
25 - 35 gray mud
35 - 48 sand & gravel
48 - 49 gray mud

121930415400 Crossville Village Test 1 23-4S-10E
White 75'S line, 1500'E line, NE
Well Status: WATER - Water Well
Comdate: Plugdate: TD:
Elevation: Permit #: Permit Date:
Latitude: 38.1618 Longitude: -88.064602
Logs Run: Geologic Tops
Survey Sample Study

121930415500 Crossville Village Test 2 23-4S-10E
White Dietz, Willis R. 65'S line, 1500'E line, NE
Well Status: WATER - Water Well
Comdate: Plugdate: TD: 41
Elevation: Permit #: Permit Date:
Latitude: 38.161772 Longitude: -88.064603
Logs Run: Geologic Tops
Survey Sample Study

121930415600 Crossville Village Test 3 23-4S-10E
White 40'S line, 1750'E line, NE
Well Status: WATER - Water Well
Comdate: Plugdate: TD: 41
Elevation: Permit #: Permit Date:
Latitude: 38.161705 Longitude: -88.068496
Logs Run: Geologic Tops
Survey Sample Study

121933088700 Viking Oil Co. 25-4S-10E
White Speth, David NW NW NW
Well Status: WATER - Water Well
Comdate: 01/15/1982 Plugdate: TD: 315
Elevation: Permit #: 102365 Permit Date: 12/10/1981
Latitude: 38.15336 Longitude: -88.058285

January 4, 2010

Questor Data Extraction

11101

Well Type: WF - Water Flood/Repressurize
 Water Bearing Formation: water sand 255 to 315 ft
 Static Water Level: 110 ft. below casing top of 1 ft. Hole Diam.:
 Pumping Level: ft. when pumping at 7 gpm for hours.
 Casing and Liner Pipe: Diam. (in.) Kind and Weight From(ft)
 5 ID PVC 0 256
 Size hole below casing: 5 in.

Driller's Log: 0 - 27 clay
 27 - 68 quick sand
 68 - 80 sand
 80 - 105 sandy slate
 105 - 163 dark slate
 163 - 167 coal
 167 - 168 lime
 168 - 185 gray slate
 185 - 211 sandy slate
 211 - 214 coal
 214 - 216 lime
 216 - 255 gray slate
 255 - 315 water sand

121933136100 Porter, Jess 1 26-4S-10E
 White West, Dean NW SE

Well Status: WATER - Water Well TD: 71
 Complate: 11/19/1992 Plugdate: Permit Date: 10/26/1992
 Elevation: Permit #: 022540 Latitude: 38.145484 Longitude: -88.066369

Owner Address: P.O. Box #338 Crossville IL
 Well Type: PRIV - Private Water Well

Water Bearing Formation: sand 59 to 76 ft
 Static Water Level: 13 ft. below casing top of 1 ft. Hole Diam.: 7 in.
 Screen Diam.: 5 in. Screen Length: 15 ft. Slot: .03
 Casing and Liner Pipe: Diam. (in.) Kind and Weight From(ft)
 5 SDR 21 -1 76
 Size hole below casing: 5 in.

Driller's Log: 0 - 12 clay
 12 - 49 blue shale
 49 - 71 sand

121933233500 Hodgson, Bill 27-4S-10E
 White Speth, James NE NW NE

Well Status: WATER - Water Well TD: 110
 Complate: 09/20/2007 Plugdate: Permit Date: 08/21/2007
 Elevation: Permit #: 193-05- Latitude: 38.157333 Longitude: -88.084889

Owner Address: 1561 Co. Rd. 1900 N Crossville IL 62827
 Well Type: PRIV - Private Water Well

Water Bearing Formation: water sand 105 to 109 ft
 Static Water Level: 18 ft. below casing top of 1 ft. Hole Diam.: 8 in.
 Screen Diam.: 5 in. Screen Length: 10 ft. Slot: 20.00
 Casing and Liner Pipe: Diam. (in.) Kind and Weight From(ft)
 5 PVC SDR 21 -2 100
 5 SCREEN 100 110

Driller's Log: 0 - 4 topsoil
 4 - 13 brown clay

January 4, 2010

Questor Data Extraction

11101

13 -	31	gray clay
31 -	49	sand & gravel
49 -	69	gray clay
69 -	76	brown clay
76 -	88	gray shale
88 -	89	lime
89 -	92	gray shale
92 -	96	sandy gray shale
96 -	97	lime
97 -	105	sandy gray shale
105 -	109	water sand
109 -	110	gray shale

121933088800
White

Hodgson, Joe 1
Lamp, Robert Wayne

27-4S-10E
20'N line, 250'E line, NW NE

Well Status: WATER - Water Well
Complate: 03/01/1982 Plugdate:
Elevation: Permit #: 102477

TD: 100
Permit Date: 12/23/1981
Latitude: 38.154851 Longitude: -88.083197

Owner Address: Crossville IL

Well Type: PRIV - Private Water Well

Water Bearing Formation: sandstone 80 to 100 ft

Static Water Level: 20 ft. below casing top of 1 ft. Hole Diam.:

Screen Diam.: 5 in. Screen Length: 10 ft. Slot: .01

Pumping Level: 60 ft. when pumping at 20 gpm for 1 hours.

Casing and Liner Pipe:	Diam. (in.)	Kind and Weight	From(ft)	
	5	SCH 40	-1	81
	5	SCH 40 SCRN .015 PVC	81	91
	5	SCH 40	91	96

Size hole below casing: 6.5 in.

Driller's Log:

0 -	15	clay
15 -	30	sand quick sand
30 -	80	sand & mud
80 -	100	gray sandstone

Illinois State Water Survey Well Database

Wednesday, January 6, 2010

County: WHITE

Township: 04S

Range: 10E

Sections: 13-15,22-27

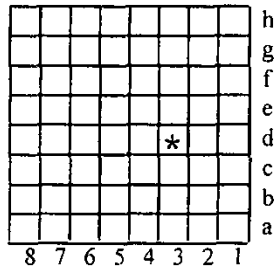
Records Found: 12

Questions: Contact the Illinois State Water Survey's Center for Groundwater Science @ (217)-333-9043

Publication: Please cite the Illinois State Water Survey's Well Database in all publications based wholly or partially on this information.

Note: The data listed in this printout includes non-municipal wells which are known to the Illinois State Water Survey (ISWS). This information has been entered verbatim from well logs submitted by the driller, chemical analysis reports, well sealing forms, well inventory forms from the 1930-1934 well survey, and other special projects. The accuracy of this data is controlled by those submitting the forms. Information in the Well Database has not been verified.

This data cannot be resold or redistributed. The Illinois State Water Survey must be acknowledged in any use of this material.



Location of a 10-acre-plot within a section:

The origin can be found at the lower right-hand-corner of an 8 x 8 grid. In this example, the well is in the 10-acre plot '3d'.

P NUM	FIPS	TWN	RNG	SEC	PLOT	OWNER	DRILLER	COMPLETED	RECORD		WELL	AQ	STAT	PUMP	PUMP	
								DATE	DEPTH	TYPE						USE
209474	193	04S	10E	14	2G	LAMONT FARMS	HACKER	02/26/1990	120	RG	DO	--	BR	20		
200661	193	04S	10E	14	3G	WILLIAM LAMONT	FLEMING	04/14/1981	155	RG	DO	--	BR	17		
200662	193	04S	10E	14	7G	HARRY RISTER	TURNER	06/05/1976	100	RG	DO	--	BR	35		
200663	193	04S	10E	15	7A	GEORGE ROWLINSON(PLUGGED 118')	LAMP	08/12/1980	125	RG	DO	--	UN	30		
228638	193	04S	10E	22	1A	STAN CARTER	SPETH	10/26/1990	49	RG	DO	--	UN	19	48	
202088	193	04S	10E	23	4E	C W STURM		00/00/1940	38	RGC	DO	BD	--			
200668	193	04S	10E	25	8H	VIKING OIL CO	SPETH	01/15/1982	315	RG	IC	--	BR	110		
250338	193	04S	10E	26		JESS PORTER #1	WEST-STAR DRILING	11/19/1992	71	RG	DO	DL	UN	12		
300561	193	04S	10E	26	2B	TERRY WEST	SPETH PLBG./WALKER	06/18/1997	58	RG	DO	BD	UN	2	23	30
228640	193	04S	10E	27		BEULAH KERSHAW	SLOAN WELL SERVICE	09/12/1990	150	RG	DO	--	UN			
434414	193	04S	10E	27	3H	BILL HODGSON	JAMES SPETH	09/20/2007	110	RG	DO	DL	UN			
200672	193	04S	10E	27	3H	JOE HODGSON	LAMP	03/01/1982	100	RG	DO	--	BR	20		

000173

Illinois State Water Survey IWIP Database

Wednesday, January 6, 2010

County: WHITE

Township: 04S

Range: 10E

Sections: 13-15,22-27

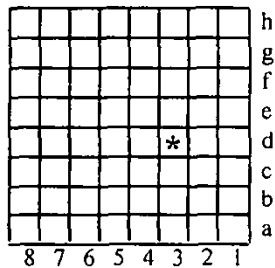
Records Found: 4

Questions: Contact the Illinois State Water Survey's Center for Groundwater Science @ (217)-333-9043

Publication: Please cite the Illinois State Water Survey's IWIP (Illinois Water Inventory Program) Database in all publications based wholly or partially this information.

Note: The data in the IWIP Database is a listing of municipal and commercial wells which are known to the Illinois State Water Survey (ISWS). This information was initially entered from public water supply data and supplemented with the Illinois State Water Inventory Project data. This database is updated as additional information is received and verified.

This data cannot be resold or redistributed. The Illinois State Water Survey must be acknowledged in any use of this material.

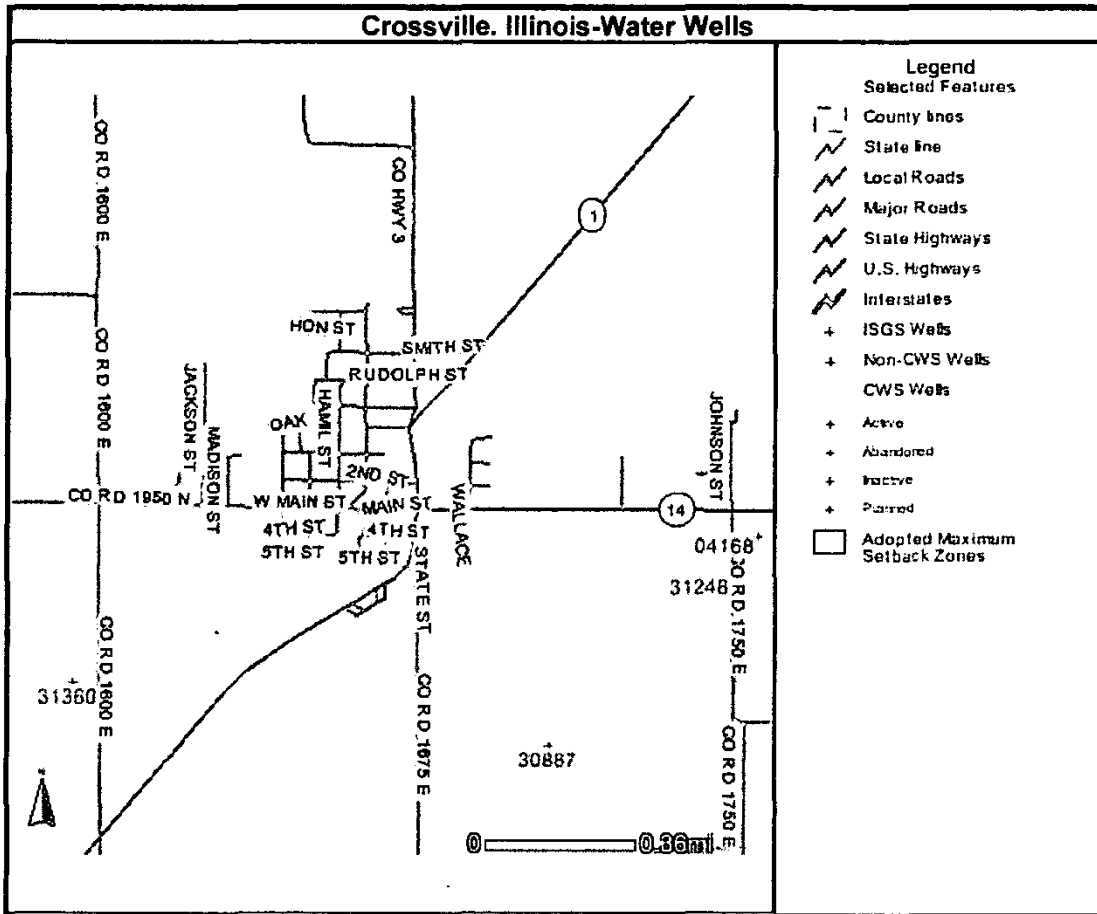


Location of a 10-acre-plot within a section:

The origin can be found at the lower right-hand-corner of an 8 x 8 grid. In this example, the well is in the 10-acre plot '3d'.

P NUM	FIPS	TWN	RNG	SEC	PLOT	OWNER	DRILLER	COMPLETED		STATUS	RECORD	STAT	PUMP	PUMP	
								DATE	DEPTH		TYPE	LVL	LVL	GPM	
409095	193	04S	10E	23	3E	CROSSVILLE	ROBERT R CALLAGHAN	1944		A	Z				
						ISWS FACILITY ID: 19390150 WELL NUMBER: 3									
409096	193	04S	10E	23	3E	CROSSVILLE	LOCKWOOD & SUTTON	1946	165	A	L				
REMARKS: BACKFILLED TO 107						ISWS FACILITY ID: 19390150 WELL NUMBER: 4									
409097	193	04S	10E	23	3E	CROSSVILLE	ENOCH L POTTS	1940	41	A	RG				
REMARKS: ACTUAL DEPTH = 40.3						ISWS FACILITY ID: 19390150 WELL NUMBER: 1									
409098	193	04S	10E	23	3E	CROSSVILLE	ALBERT LANCASTER	1940		A	Z				
REMARKS: ACTUAL DEPTH = 47.5						ISWS FACILITY ID: 19390150 WELL NUMBER: 2									

Information and data presented were obtained from various Federal, State, and local agencies and are subject to revision.



ISGS Wells

Rec	API_NUMBER	TOTAL_DEPT	FARM_NAME	ELEVATION	STATUS	LAM_X	LAM_Y	LATITUDE	LONGITUDE	COUNTY_NO
1	121930415500	41	Crossville Village Test	0	WATER	3410516	1875909	38.161719	88.064589	04155
2	121933124800	330	Carr etal Unit	430	WATRS	3414554	1875021	38.159091	88.050521	31248
3	121933168000	74	Weigh Station Ditch	398	ENG	3409403	1875867	38.161651	88.068482	31680
4	121930415600	41	Crossville Village Test	0	WATER	3409403	1875867	38.161651	88.068482	04156
5	121930415400	0	Crossville Village Test	0	WATER	3410516	1875919	38.161746	88.064588	04154

Exhibit F



Tank pit prior to removal.



10,000 gallon UST lifted from tank pit.



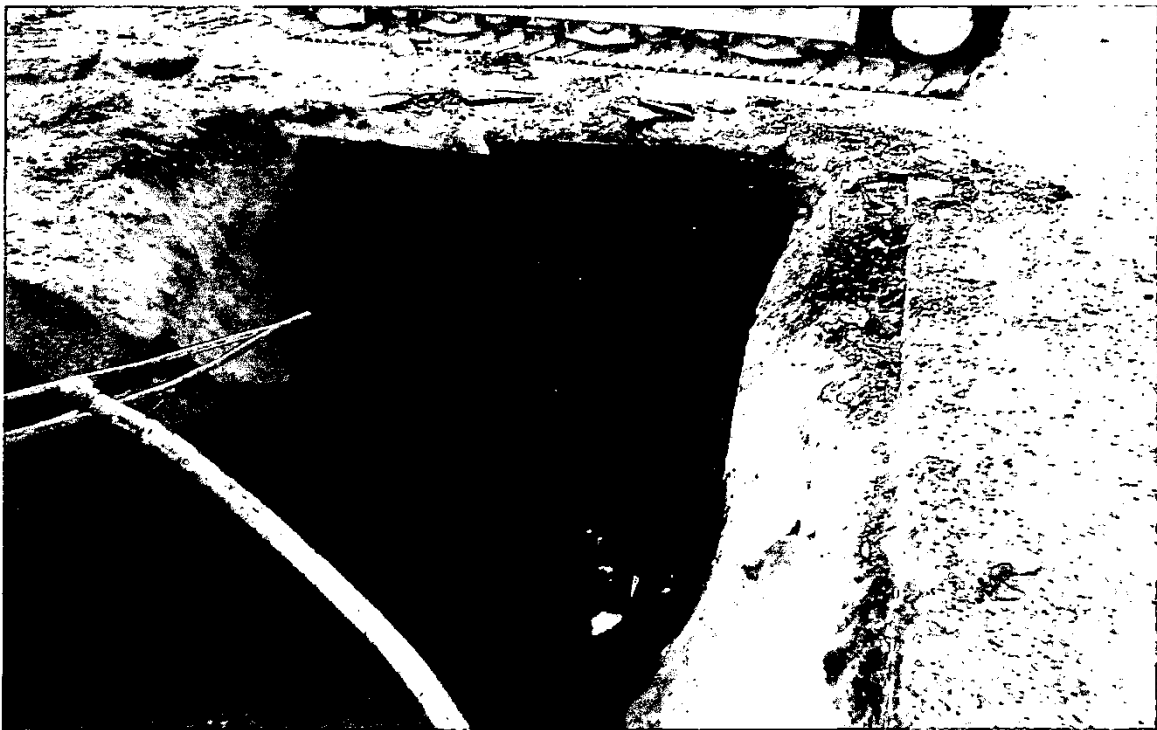
View of remaining fuel being removed from active UST.



View of tanker removing fluid from abandoned UST.



Commencement of concrete removal over UST pit.



View of contamination in west wall of excavation.



View of dispenser island prior to the removal of the pumps.



View of dispenser island as second pump was removed.



View of tank pit as backfill was cleared from UST's.



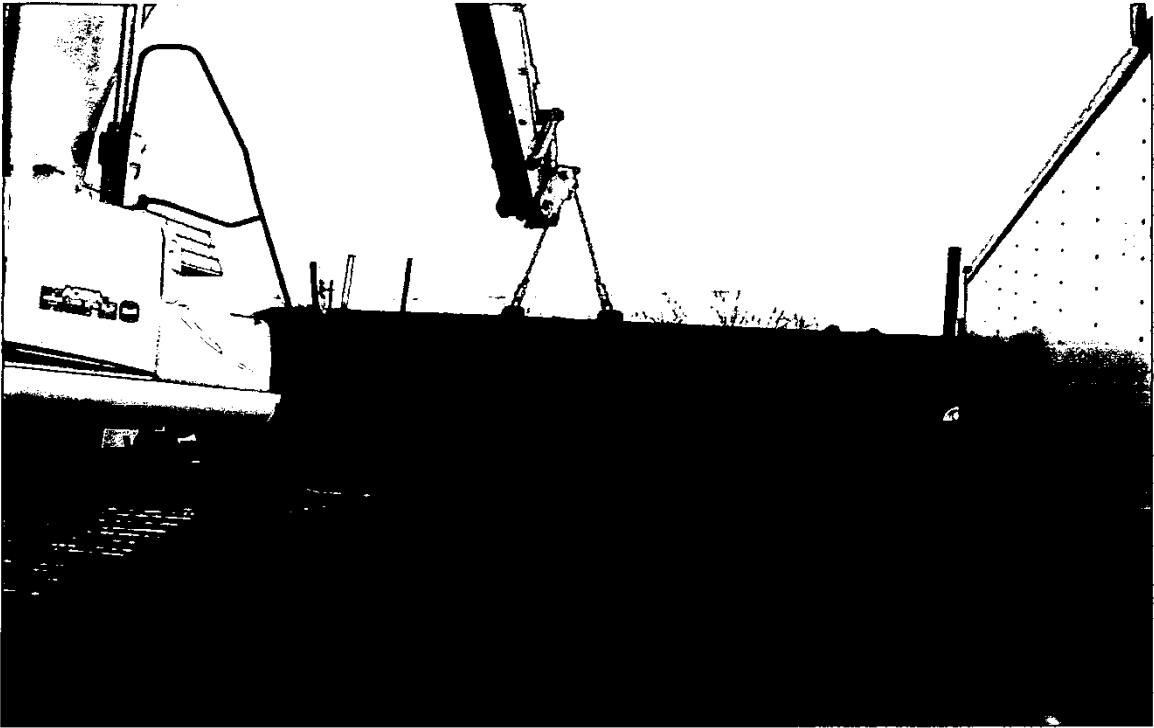
View of contamination on south wall.



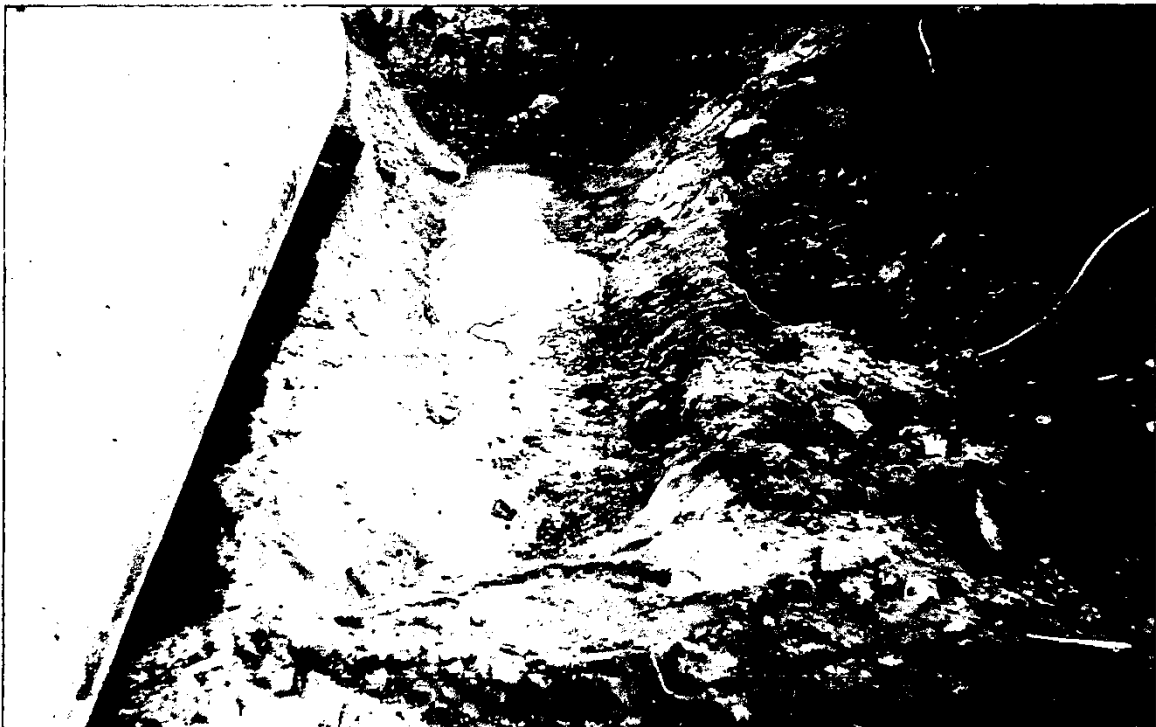
Tanks being purged prior to removal.



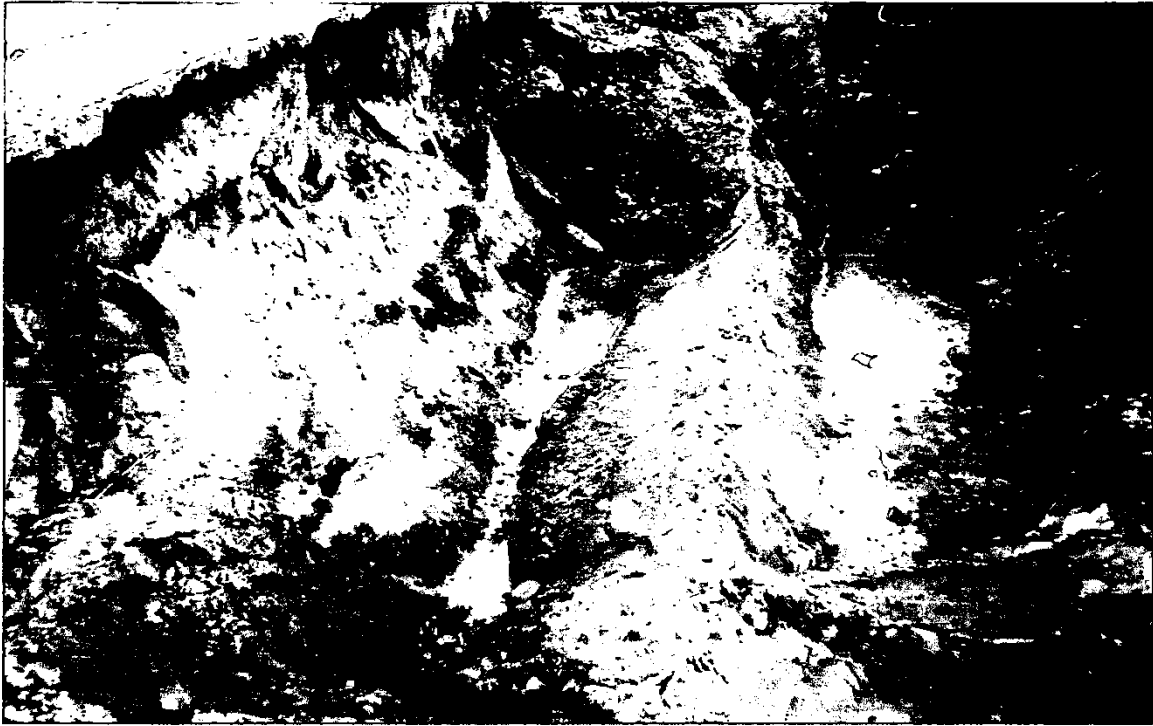
Contamination on tank pit wall.



View of south UST being removed from tank pit.



View of product-cut water beneath south UST post removal.



View of product-cut water observed beneath both tank positions post-removal.



Another view of the product-cut water at the bottom of the tank pit.



Interior of UST— note large hole in the center of the photo.



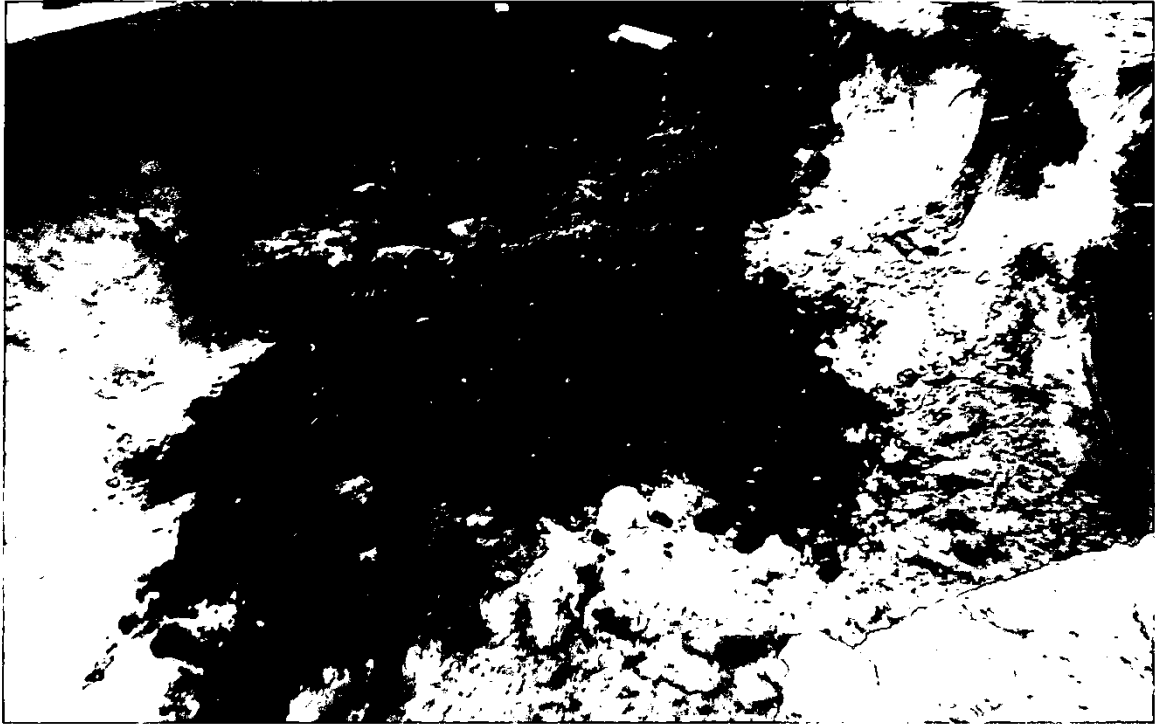
Large hole observed in one of the UST's.



Cleaning of UST after ends had been removed.



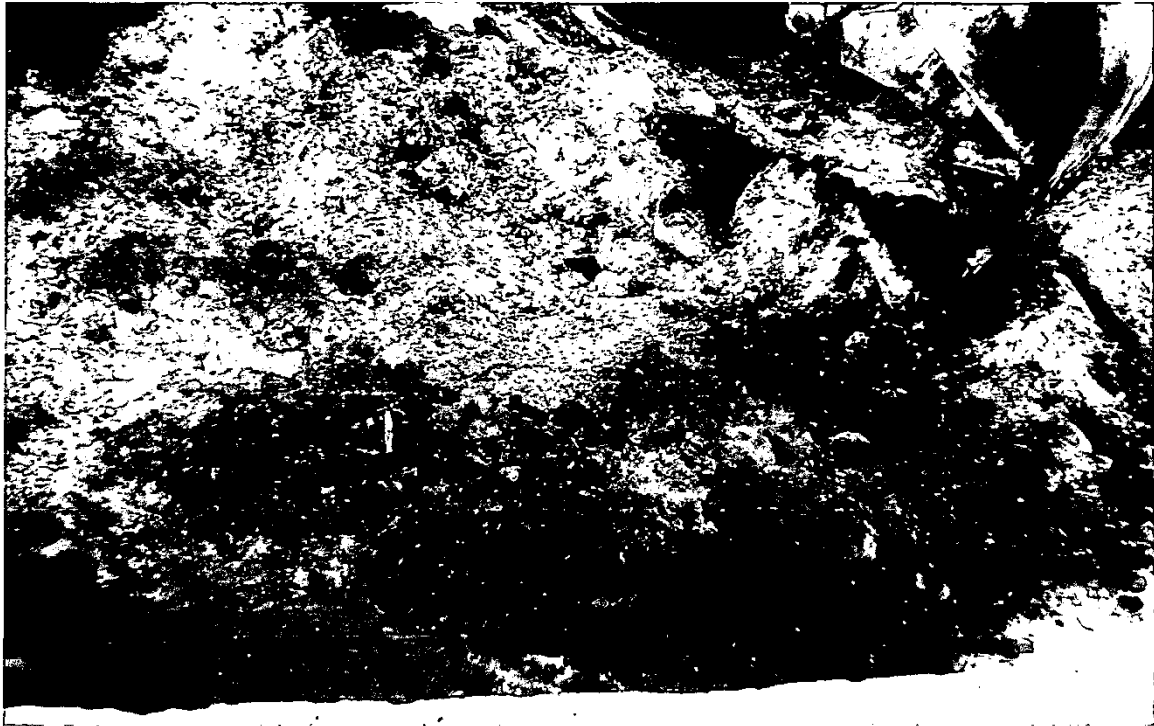
Cut and cleaned UST loaded for scrap.



View of code L lime used to remove water in the tank pit.



Thickness of the concrete overlying tank pit.



Code L Lime and backfill mixture in the tank pit.

Walker

APPLIED ENVIRONMENTAL TECHNOLOGIES, INC.

Bryan K. Williams
Professional Geologist/President

P.O. Box 303
Carmi, IL 62821
Bus. 618-382-8232
Fax 618-382-2462
Home 618-384-3601

February 19, 2010

Illinois Environmental Protection Agency
Bureau of Land #24
Leaking Underground Storage Tank Section
1021 North Grand Avenue East
P.O. Box 19276
Springfield, IL 62794-9276

RE: LPC #1930155021 - White County
Crossville/Maier's Grocery
109 South State Street
LUST Incident No. 20091397

Leak

To Whom It May Concern,

Enclosed please find a copy of lab report # L438155 which documents the release at the Maier's Grocery site. The indicator contaminants Benzene, Toluene, Ethylbenzene, Xylene and Lead TCLP were above objectives in boring No. 2 at six (6) feet.

This document was unintentionally omitted from the analytical results exhibit in the 45-Day Report Addendum and should be included in that report in order to verify the release.

If you have any questions or need any additional information, please let me know.

Sincerely,

John Marks
John Marks
Geologist, Civil Eng.

CC: Mr. Mark Bayley, Martin & Bayley, Inc.

RECEIVED
RELEASABLE FEB 22 2010
MAR 02 2010 IEP/BOL
REVIEWER MD

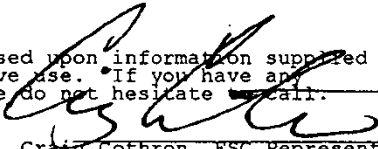


12065 Lebanon Rd.
Mt. Juliet, TN 37122
(615) 758-5858
1-800-767-5859
Fax (615) 758-5859
Tax I.D. 62-0814289
Est. 1970

Mr. Bryan Williams
Applied Environmental Technologies, Inc.
PO Box 303
Carmi, IL 62821

Report Summary
Wednesday December 30, 2009
Report Number: L438155
Samples Received: 12/23/09
Client Project: MAIER
Description: Maiers Grocery

The analytical results in this report are based upon information supplied by you, the client, and are for your exclusive use. If you have any questions regarding this data package, please do not hesitate to call.

Entire Report Reviewed By: 
Craig Cothron, ESC Representative

Laboratory Certification Numbers

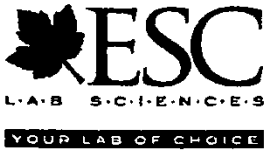
A2LA - 1461-01, AIHA - 100789, AL - 40660, CA - I-2327, CT - PH-0197, FL - E87487
GA - 923, IN - C-TN-01, KY - 90010, KYUST - 0016, NC - ENV375, DW21704, ND - R-140
NJ - TN002, NJ NELAP - TN002, SC - 84004, TN - 2006, VA - 00109, WV - 233
AZ - 0612, MN - 047-999-395, NY - 11742, WI - 998093910

Accreditation is only applicable to the test methods specified on each scope of accreditation held by ESC Lab Sciences.

This report may not be reproduced, except in full, without written approval from Environmental Science Corp.
Where applicable, sampling conducted by ESC is performed per guidance provided in laboratory standard operating procedures: 060302, 060303, and 060304.

2 Samples Reported: 12/30/09 09:52 Printed: 12/30/09 09:52
Page 1 of 5

RECEIVED
RELEASABLE FEB 22 2010
MAR 02 2010
IEPA/BOL
REVIEWER MD



12065 Lebanon Rd.
 Mt. Juliet, TN 37122
 (615) 758-5858
 1-800-767-5859
 Fax (615) 758-5859
 Tax I.D. 62-0814289
 Est. 1970

REPORT OF ANALYSIS

Mr. Bryan Williams
 Applied Environmental Technologies,
 PO Box 303
 Carmi, IL 62821

December 30, 2009

Date Received : December 23, 2009
 Description : Maiers Grocery
 Sample ID : NO. 2 6 FT
 Collected By : Bryan Williams
 Collection Date : 12/16/09 07:30

ESC Sample # : L438155-01
 Site ID :
 Project # : MAIER

Parameter	Dry Result	Det. Limit	Units	Method	Date	Dil.
Total Solids	80.3		%	2540G	12/24/09	1
Benzene	2.2	0.31	mg/kg	8021	12/23/09	500
Toluene	22.	3.1	mg/kg	8021	12/23/09	500
Ethylbenzene	36.	0.31	mg/kg	8021	12/23/09	500
Total Xylene	200	0.93	mg/kg	8021	12/23/09	500
Surrogate Recovery-% a, a, a-Trifluorotoluene (PID)	106.		% Rec.	8021	12/23/09	500

Results listed are dry weight basis.
 BDL - Below Detection Limit
 Det. Limit - Practical Quantitation Limit (PQL)
 Note:
 This report shall not be reproduced, except in full, without the written approval from ESC.
 The reported analytical results relate only to the sample submitted
 Reported: 12/30/09 09:52 Printed: 12/30/09 09:52



YOUR LAB OF CHOICE

12065 Lebanon Rd.
Mt. Juliet, TN 37122
(615) 758-5858
1-800-767-5859
Fax (615) 758-5859
Tax I.D. 62-0814289
Est. 1970

REPORT OF ANALYSIS

Mr. Bryan Williams
Applied Environmental Technologies,
PO Box 303
Carmi, IL 62821

December 30, 2009

Date Received : December 23, 2009
Description : Maiers Grocery
Sample ID : NO. 2 6 FT
Collected By : Bryan Williams
Collection Date : 12/16/09 07:30

ESC Sample # : L438155-02
Site ID :
Project : MAIER

Table with 9 columns: Parameter, Result, Det. Limit, Units, Limit, Method, Date/Time, By, Dil. Rows include Ignitability, Paint Filter Test, TCLP Extraction, and Lead.

BDL - Below Detection Limit
Det. Limit - Estimated Quantitation Limit(EQL)
Limit - Maximum Contaminant Level as established by the US EPA
Note:
The reported analytical results relate only to the sample submitted.
This report shall not be reproduced, except in full, without the written approval from ESC.

Reported: 12/30/09 09:52 Printed: 12/30/09 09:52
L438155-02 (IGNITABILITY) - Did Ignite @ 135 F
L438155-02 (PAINT) - Contains No Free Liquid

Attachment A
List of Analytes with QC Qualifiers

Sample Number	Work Group	Sample Type	Analyte	Run ID	Qualifier
L438155-02	WG457150	SAMP	Ignitability	R1059149	J3

Attachment B
Explanation of QC Qualifier Codes

Qualifier	Meaning
J3	The associated batch QC was outside the established quality control range for precision.

Qualifier Report Information

ESC utilizes sample and result qualifiers as set forth by the EPA Contract Laboratory Program and as required by most certifying bodies including NELAC. In addition to the EPA qualifiers adopted by ESC, we have implemented ESC qualifiers to provide more information pertaining to our analytical results. Each qualifier is designated in the qualifier explanation as either EPA or ESC. Data qualifiers are intended to provide the ESC client with more detailed information concerning the potential bias of reported data. Because of the wide range of constituents and variety of matrices incorporated by most EPA methods, it is common for some compounds to fall outside of established ranges. These exceptions are evaluated and all reported data is valid and useable unless qualified as 'R' (Rejected).

Definitions

- Accuracy - The relationship of the observed value of a known sample to the true value of a known sample. Represented by percent recovery and relevant to samples such as: control samples, matrix spike recoveries, surrogate recoveries, etc.
- Precision - The agreement between a set of samples or between duplicate samples. Relates to how close together the results are and is represented by Relative Percent Difference.
- Surrogate - Organic compounds that are similar in chemical composition, extraction, and chromatography to analytes of interest. The surrogates are used to determine the probable response of the group of analytes that are chemically related to the surrogate compound. Surrogates are added to the sample and carried through all stages of preparation and analyses.
- TIC - Tentatively Identified Compound: Compounds detected in samples that are not target compounds, internal standards, system monitoring compounds, or surrogates.

Summary of Remarks For Samples Printed
12/30/09 at 09:52:23

TSR Signing Reports: 034
R2 - Rush: Next Day

PENDING CALL FROM SALES RE: CL

Sample: L438155-01 Account: APPENVCIR Received: 12/23/09 09:00 Due Date: 12/24/09 00:00 RPT Date: 12/30/09 09:52
Open cup IGN
Sample: L438155-02 Account: APPENVCIR Received: 12/23/09 09:00 Due Date: 12/31/09 00:00 RPT Date: 12/30/09 09:52

Company Name/Address: **Applied Environmental Technologies, Inc.**
 PO Box 303
 Carmi, IL 62821

Alternate billing information:

Analysis/Container/Preservative

Chain of Custody Page 1 of 1
 Prepared by: **A166**

ENVIRONMENTAL SCIENCE CORP.
 12065 Lebanon Road
 Mt. Juliet, TN 37122
 Phone (615) 758-5858
 Phone (800) 767-5859
 FAX (615) 758-5859

Report to: **Mr Bryan Williams** Email to: **aet 98@venym.net**

Project Description: **Maier's Grocery** City/State Collected: **Crossville, IL**

Phone: (618) 382-8232 Client Project #: **Maier** ESC Key:

FAX: (618) 382-2462 Site/Facility ID#: P.O.#:

Collected by: **BWilliams**

Collected by (signature): *Bryan Williams*

Immerse Immediately Packed on Ice: N Y

Rush? (Lab MUST Be Notified)
 Same Day 200%
 Next Day 100%
 Two Day 50%
 Three Day 25%

Date Results Needed:
 Email? No Yes
 FAX? No Yes

No. of Cntrs

Sample ID	Comp/Grab	Matrix*	Depth	Date	Time	No. of Cntrs	Remarks/Contaminant	Sample # (lab only)
No 2	Grab	SS	6'	12/16/09	7:30	2		623816 S-01/02

BTEX (Chain Express, plus)
 TCLP Lead
 Open Cap/Fresh Paint
 Paint Filter

Co Code: **APPENVGIR** (lab use only)
 Template/Pre locn
 Shipped Via

*Matrix: **SS** - Soil/Solid **GW** - Groundwater **WW** - WasteWater **DW** - Drinking Water **OT** - Other

Remarks: **969 7462 0632** **Log BTEX, IGN, PAINT as Next Day TAT**
see page

pH _____ Temp _____
 Flow _____ Other _____

Relinquished by: (Signature) <i>Bryan Williams</i>	Date: 12/22/09	Time: 10:30	Received by: (Signature) <i>[Signature]</i>	Samples returned via: <input checked="" type="checkbox"/> UPS <input type="checkbox"/> FedEx <input type="checkbox"/> Courier	Condition: OK (lab use only)
Relinquished by: (Signature) <i>[Signature]</i>	Date:	Time:	Received by: (Signature) <i>[Signature]</i>	Temp: 38°C	Bottles Received: 2-4oz
Relinquished by: (Signature) <i>[Signature]</i>	Date:	Time:	Received for lab by: (Signature) <i>[Signature]</i>	Date: 12/23/09	Time: 0900

000197



Office of the Illinois
State Fire Marshal

"Partnering With the Fire Service to Protect Illinois"

1930155021 -- WHITE
Maier's Grocery
LUST Fiscal

CERTIFIED MAIL - RECEIPT REQUESTED #7009 2250 0003 8632 1666

March 18, 2010

Martin & Bayley, Inc.
928 County Road 1350 North
Carmi, IL 62821

9879

In Re: Facility No. 7-021663
IEMA Incident No. 09-1397
Meier Grocery #131
109 South State Highway 1
Crossville, White Co., IL

Dear Applicant:

The Reimbursement Eligibility and Deductible Application received on February 16, 2010 for the above referenced occurrence has been reviewed. The following determinations have been made based upon this review.

It has been determined that you are eligible to seek payment of costs in excess of \$10,000. The costs must be in response to the occurrence referenced above and associated with the following tanks:

Eligible Tanks

Tank 1 10,000 gallon Gasoline
Tank 2 10,000 gallon Gasoline

You must contact the Illinois Environmental Protection Agency to receive a packet of Agency billing forms for submitting your request for payment.

An owner or operator is eligible to access the Underground Storage Tank Fund if the eligibility requirements are satisfied:

1. Neither the owner nor the operator is the United States Government,
2. The tank does not contain fuel which is exempt from the Motor Fuel Tax Law,
3. The costs were incurred as a result of a confirmed release of any of the following substances:

"Fuel", as defined in Section 1.19 of the Motor Fuel Tax Law

Aviation fuel

Heating oil

Kerosene

1035 Stevenson Drive • Springfield, IL 67203-4259
Printed on Recycled Paper

RELEASABLE

APR 06 2010

REVIEWER CT

Used oil, which has been refined from crude oil used in a motor vehicle, as defined in Section 1.3 of the Motor Fuel Tax Law.

4. The owner or operator registered the tank and paid all fees in accordance with the statutory and regulatory requirements of the Gasoline Storage Act.
5. The owner or operator notified the Illinois Emergency Management Agency of a confirmed release, the costs were incurred after the notification and the costs were a result of a release of a substance listed in this Section. Costs of corrective action or indemnification incurred before providing that notification shall not be eligible for payment.
6. The costs have not already been paid to the owner or operator under a private insurance policy, other written agreement, or court order.
7. The costs were associated with "corrective action".

This constitutes the final decision as it relates to your eligibility and deductibility. We reserve the right to change the deductible determination should additional information that would change the determination become available. An underground storage tank owner or operator may appeal the decision to the Illinois Pollution Control Board (Board), pursuant to Section 57.9 (c) (2). An owner or operator who seeks to appeal the decision shall file a petition for a hearing before the Board within 35 days of the date of mailing of the final decision, (35 Illinois Administrative Code 105.102(a) (2)).

For information regarding the filing of an appeal, please contact:

Dorothy Gunn, Clerk
Illinois Pollution Control Board
State of Illinois Center
100 West Randolph, Suite 11-500
Chicago, Illinois 60601
(312) 814-3620

The following tanks are also listed for this site:

Tank 3 8,000 gallon Gasoline
Tank 4 4,000 gallon Gasoline

Your application indicates that there has not been a release from these tanks under this incident number. You may be eligible to seek payment of corrective action costs associated with these tanks if it is determined that there has been a release from one or more of these tanks. Once it is determined that there has been a release from one or more of these tanks you may submit a separate application for an eligibility determination to seek corrective action costs associated with this/these tanks.

If you have any questions, please contact our Office at (217) 785-1020 or (217) 785-5878.

Sincerely,



Deanne Lock
Administrative Assistant
Division of Petroleum and Chemical Safety

cc: IEPA
Facility File

7-021663
2-16-10

Leaking Underground Storage Tank Fund
Eligibility and Deductible Application

All underground storage tank owners or operators planning to seek reimbursement of corrective action costs from the Leaking Underground Storage Tank (LUST) Fund must submit this application. Instructions and definitions to aid in completing the application are attached.

The application must be completed in its entirety. Answers of unknown are not accepted and may be grounds for returning your application. All signatures and seals must be originals signed in ink. Incomplete applications will be returned to the Applicant. Any revisions to the original application must be dated and initialed by the person entering the new information. This must be the same person who signs the application. If a facility is not in compliance with registration requirements, the application will be returned.

Do not submit IEPA reports or bills with the application. A duplicate copy of the application is not required. Following the review of the application, the Applicant will receive a certified letter of eligibility stating the deductible amount.

OSFM Facility ID #: 7021663 U0009763

1. Name of Applicant: MARTIN & Bayley, Inc.

Current Tank Owner: Current Tank Operator Former Tank Owner: Former Tank Operator:

Mailing Address of Applicant: 928 G. Rd 1350N P.O. Box 385

City: CARMi State: IL Zip: 62821

Contact Person: Mark Bayley

2. Current Owner: MARTIN & Bayley, Inc.

Tank Property: Lessee: (check all that currently apply)

Mailing Address: 928 G. Rd 1350N P.O. Box 385

City: CARMi State: IL Zip: 62821

Phone: (618) 382-2334

a) Date Facility Property Purchased: 1983 Leased:

b) Were tanks in the ground on date of purchase/lease? Yes No

c) If answer to 2b is no, were tanks installed after your purchase/lease? Yes No

d) Have you ever operated these tanks; pumped product in or out during the ordinary course of operation? Yes No

The OSFM is requesting disclosure of information to process your Eligibility and Deductible Application in order to accomplish the statutory purpose as stated in 415 ILCS, Act 5, Environmental Protection Act. This is REQUIRED because failure to provide the requested information will result in this form not being processed, and there will be no eligibility or deductible determination for purposes of the LUST Fund.

FEB 16 2010

DIV. OF PETROLEUM
CHEMICAL SAFETY

Previous owner/operator: Unknown

Tank: _____ Property: _____ Lessee: _____ (check all that apply)

Previous owner/operator current mailing address: _____

City: _____ State: _____ Zip: _____

Phone: () _____

Page 1

4. Facility Name: Maiet's Grocery

Facility Address: 109 S. State St. Highway 1

City: Crossville County: White

5. Occurrence for which you intend to seek reimbursement: Incident # H 20091397

6. Name and official title of the person who notified IEMA of the occurrence: Bryan Williams
Agent/Consultant Date Reported: 12/16/09

7. Other incident numbers reported at the site: (A separate application must be filed for each occurrence. Please indicate if any of the additional incident numbers are erroneously reported incidents, or a second reporting of the same occurrence for which you intend to seek reimbursement.)

Other Incident Numbers

Date Reported

1) _____

2) _____

3) _____

8. Total number of USTs at the site: 4 (include USTs presently at the site and USTs that have been removed or abandoned in place)

9. Total number of USTs at the site that have had a release: 2 (An UST release includes a leak from an underground tank, a release from underground piping associated with the tank, plus overfills of the UST during filling.)

10. Type of release: (check all that apply) Answers of unknown will not be accepted.

UST leak _____ Overfill of an UST during filling
 Underground piping leak _____ Other (detailed description required) holes in both tanks

a) How was the release discovered? (check all that apply)

Inventory Loss Subsurface Investigation
 Product in Observation Well _____ Significant Event (i.e., overfill, vandalism, etc.)
 Subsurface Work/Repair _____ Other (detailed description required)

b) Date release discovered: 12/16/09

Page 2



11. Is the UST owner or operator the U.S. government? Yes _____ No X

12. Is the UST owner or operator a rail carrier registered pursuant to Section 18c-7201 of the Illinois Vehicle Code? Yes _____ No X

13. Is the UST located at an airport with over 300,000 operations per year, for years prior to 1991, and over 170,000 operations per year beginning in 1991, located in a city of more than 1,000,000 inhabitants? Yes _____ No X

Page 2

14. Date corrective action work began or scheduled to begin: 1/26/10

15. Date corrective action work completed: Not Completed

The following certification must be completed by the UST owner/operator:

I, Bryan Williams (circle all that apply) the Owner, Operator or designated agent of, MARTIN + Bayley Inc. leaking underground storage tank site, do hereby certify under penalty of law, that this application and the supporting documentation attached hereto were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted therein. I affirm that the information is, to the best of my knowledge and belief, true, accurate and complete. Such affirmation is made under penalty of perjury as defined in Section 32-2 of the Criminal Code, 720 ILCS 5/32-2. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowingly committing violations. The "Eligibility and Deductible Determination" decided pursuant to this document is subject to the costs defined in Title 35: Environmental Protection Illinois Administrative Code (IAC) 731, 732, 742 and Public Act 92-0554.

Signature (owner, operator or designated agent)

Bryan Williams

Title: Agent

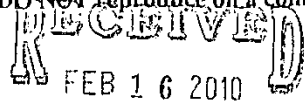
Date: 2/11/10, 20 2010

Subscribed and sworn to before me this 11th day of February, 20 10
(application must be notarized when the certificate is signed)

Christy Churchwell
Notary Public Seal



Note: Original signatures in ink and seals are required for the certification and notarization. Attach the UST information sheet behind this page. This form may be reproduced on a copier but cannot be altered in any way. DO NOT reproduce on a computer; this will be grounds for rejection.



DIV. OF PETROLEUM
CHEMICAL SAFETY

UST Information Sheet

The information below must be provided for each UST at the site. (USTs presently at the site and USTs that have been removed or abandoned)

All spaces must be completed for each tank. Answers of unknown will not be accepted

You may photocopy this page if more space is needed.

OSFM Facility ID #: 7021663

Circle one under each column.

Tank ID #	Product Code	Size (Gallons)	Date Installed	Date Registered	Date Out of Service	Date Removed	IEMA Number	Date IEMA Notified	Registration Fees Paid	Has UST Had a Release	Is UST Legally Abandoned In-Place?
<u>1</u>	<u>G</u>	<u>10,000</u>	<u>1983</u>	<u>1986</u>	<u>1/2010</u>	<u>1/27/2010</u>	<u>142009-1397</u>	<u>12/16/09</u>	<input checked="" type="radio"/> Y <input type="radio"/> N	<input checked="" type="radio"/> Y <input type="radio"/> N	<input type="radio"/> Y <input type="radio"/> N
<u>2</u>	<u>G</u>	<u>10,000</u>	<u>1983</u>	<u>1986</u>	<u>12/1/05</u>	<u>1/27/2010</u>	<u>142009-1397</u>	<u>12/16/09</u>	<input checked="" type="radio"/> Y <input type="radio"/> N	<input checked="" type="radio"/> Y <input type="radio"/> N	<input type="radio"/> Y <input type="radio"/> N
<u>3</u>	<u>G</u>	<u>8,000</u>	<u>2/25/10</u>	<u>2/10</u>	<u>In Service</u>	<u>In Service</u>	<u>No release</u>	<u>No release</u>	<input checked="" type="radio"/> Y <input type="radio"/> N	<input type="radio"/> Y <input checked="" type="radio"/> N	<input type="radio"/> Y <input type="radio"/> N
<u>4</u>	<u>G</u>	<u>4,000</u>	<u>2/25/10</u>	<u>2/10</u>	<u>In Service</u>	<u>In Service</u>	<u>No release</u>	<u>No release</u>	<input checked="" type="radio"/> Y <input type="radio"/> N	<input type="radio"/> Y <input checked="" type="radio"/> N	<input type="radio"/> Y <input type="radio"/> N
									<input type="radio"/> Y <input type="radio"/> N	<input type="radio"/> Y <input type="radio"/> N	<input type="radio"/> Y <input type="radio"/> N
									<input type="radio"/> Y <input type="radio"/> N	<input type="radio"/> Y <input type="radio"/> N	<input type="radio"/> Y <input type="radio"/> N
									<input type="radio"/> Y <input type="radio"/> N	<input type="radio"/> Y <input type="radio"/> N	<input type="radio"/> Y <input type="radio"/> N
									<input type="radio"/> Y <input type="radio"/> N	<input type="radio"/> Y <input type="radio"/> N	<input type="radio"/> Y <input type="radio"/> N
									<input type="radio"/> Y <input type="radio"/> N	<input type="radio"/> Y <input type="radio"/> N	<input type="radio"/> Y <input type="radio"/> N
									<input type="radio"/> Y <input type="radio"/> N	<input type="radio"/> Y <input type="radio"/> N	<input type="radio"/> Y <input type="radio"/> N

Product Codes - (refer to instructions for definitions): G - Gas, D - Diesel, A - Aviation fuels, K - Kerosene, M - New Motor Oil or U - Used oil; H - Heating oil; HAZ - Hazardous Substance (description required); N - Any product not included under another code. (description required)

Comments: _____



OFFICE OF THE ILLINOIS STATE FIRE MARSHAL
 Division of Technical Services
 1035 Stevenson Drive
 Springfield, Illinois 62703-4259
 (217)524-7605

FOR OFFICE USE ONLY
 Facility # 7-021663
 Permit # 00007-2010REM
 Request Rec'd 12/23/2009
 Amended Date
 Approval Date 1/6/2010 DS
 Permit Expires 7/6/2010

Permit for REMOVAL of Underground Storage Tank(s) and Piping for Petroleum and Hazardous Substances.

Permission to remove underground storage tank(s) or piping is hereby granted. Such removal shall not commence until the contractor the permit was issued to or an employee of that contractor (this does not include a subcontractor) shall establish a date certain to perform the UST activity by contacting the Office of the State Fire Marshal, Division of Petroleum and Chemical Safety, by telephone at the Springfield office between 8:30 a.m. and 12:00 p.m., at which time a mutually agreed upon date and time for the UST activity shall be scheduled. **THIS PERMIT IS VALID FOR SIX MONTHS FROM THE APPROVAL DATE.**

<p>(1) OWNER OF TANKS - Corporation, partnership, or other business entity: Martin & Bayley, Inc. 928 County Road 1350 North, Carmi, IL 62821 Contact: Mark Bayley (618) 382-2334</p>	<p>(2) FACILITY - name and address where tanks are located: Meier Grocery #131 109 South State Highway 1 Crossville, White Co., IL Contact: Mark Bayley (618) 382-2334</p>
--	---

(3) REMOVAL OF TANKS:

- (a) *Number and size of tanks being removed:* (TK # 1, 2) - 10,000 gallons
- (b) *Product stored in each tank:* (TK # 1, 2) - Gasoline
- (c) *Reason of tanks being removed:*
- (d) *If tank(s) is leaking, indicate IEMA incident number:*
- (e) *Date each tank was last used:* (TK # 1), (TK # 2)

(4) The owner must notify this Office when completion of tank removal has occurred, on the Notification for Underground Storage Tank Form This form can be obtained at www.state.il.us/osfm or by calling (217)785-1020. After removal is completed, the owner/operator shall perform a site assessment by measuring for the presence of a release where contamination is most likely to be present at the UST site. This is in accordance with the Illinois Administrative Code 170.640 (a) regulations and 40 CFR Part 280.72 (a) Federal Register Requirement.

(5) SPECIAL CONTINGENCIES:

<p>(6) PERSON, FIRM OR COMPANY PERFORMING WORK:</p>	
<p>Jeff Guisewite, Inc. 16153 East 1100 Road, Mount Carmel, IL 62863</p>	<p>Contact Person: Jeff Guisewite Phone: (618) 262-4933 Contractor Registration # IL-497 Exp. 08/10/2010</p>

Sincerely,

Daniel J. Starks

Daniel Starks

cc: Storage Tank Safety Specialist -
 Fire Department -
 Office Coordinator -
 Division File
 (Rev. - 6/07)



Office of the Illinois State Fire Marshal
 Division of Petroleum and Chemical Safety
 1035 Stevenson Drive
 Springfield, Illinois 62703-4259

Facility#	7021663
Permit#	00007-2010REM
Date	1/27/2010
IEMA #	09-1397
Notification Form Received	<input type="radio"/> Y <input checked="" type="radio"/> N
Permit Not Executed	<input type="checkbox"/>

LOG OF UNDERGROUND STORAGE TANK REMOVAL/PIPING REMOVAL

Removal Piping Removal Only

OWNER OF TANKS

Martin & Bayley, Inc.
 Name
 928 County Road 1350 North
 Street Address
 Carmi IL 62821
 City State Zip
 Mark Bayley 618-382-2334
 Contact Person Phone

FACILITY

Meier Grocery #131
 Name
 109 South State Highway 1
 Street Address
 Crossville IL 62827 White
 City State Zip County
 Mark Bayley 618-382-2334
 Contact Person Phone

CONTRACTOR

IL497
 License Number

Jeff Guisewite, Inc.
 Name
 16153 East 1100 Road
 Street Address
 Mount Carmel IL 62863
 City State Zip
 Jeff Guisewite 618-262-4933
 Contact Person Phone

TANK SYSTEM INFORMATION			
Tank	Capacity	Product	Status
1	10,000	Gasoline	Currently in use
2	10,000	Gasoline	Currently in use

SECTION A. TANK CORRECTION

SECTION B. ADDITIONAL TANKS FOUND

SECTION C. CONTAMINATION INFORMATION

Tank Number: 1
 Contamination Present: Y Unknown
 Water Present in Excavation: Y N
 Water wells in area: Y Unknown

Area of Contamination:

Tank Integrity:

- No Apparent Holes
- Observed Obvious Holes

- Tank Floor
- Backfill
- Walls
- Pipe Trench

Tank Number: 2

Contamination Present: Y Unknown

Water Present in Excavation: Y N

Water wells in area: Y Unknown

Tank Integrity: No Apparent Holes
 Observed Obvious Holes

Area of Contamination:

- Tank Floor
- Backfill
- Walls
- Pipe Trench

SECTION D. FORMS

ED & D Given To: Owner Contractor N/A

Rem/Abn Certification Given To: Owner Contractor

Remarks:

Aired down ID#1-2 to below 5% LEL, removed, cut and cleaned both tanks. Both tanks had obvious holes in the bottoms near the bulkheads. ED & D and removal certificate given to Bryan Williams (Contractor).

1/27/2010

X Louis Hertter

Signed by LOUIS E HERTTER View details
on Wednesday, January 27, 2010 1:12 PM (Central Daylight
Time)

Storage Tank Safety Specialist (Signature)

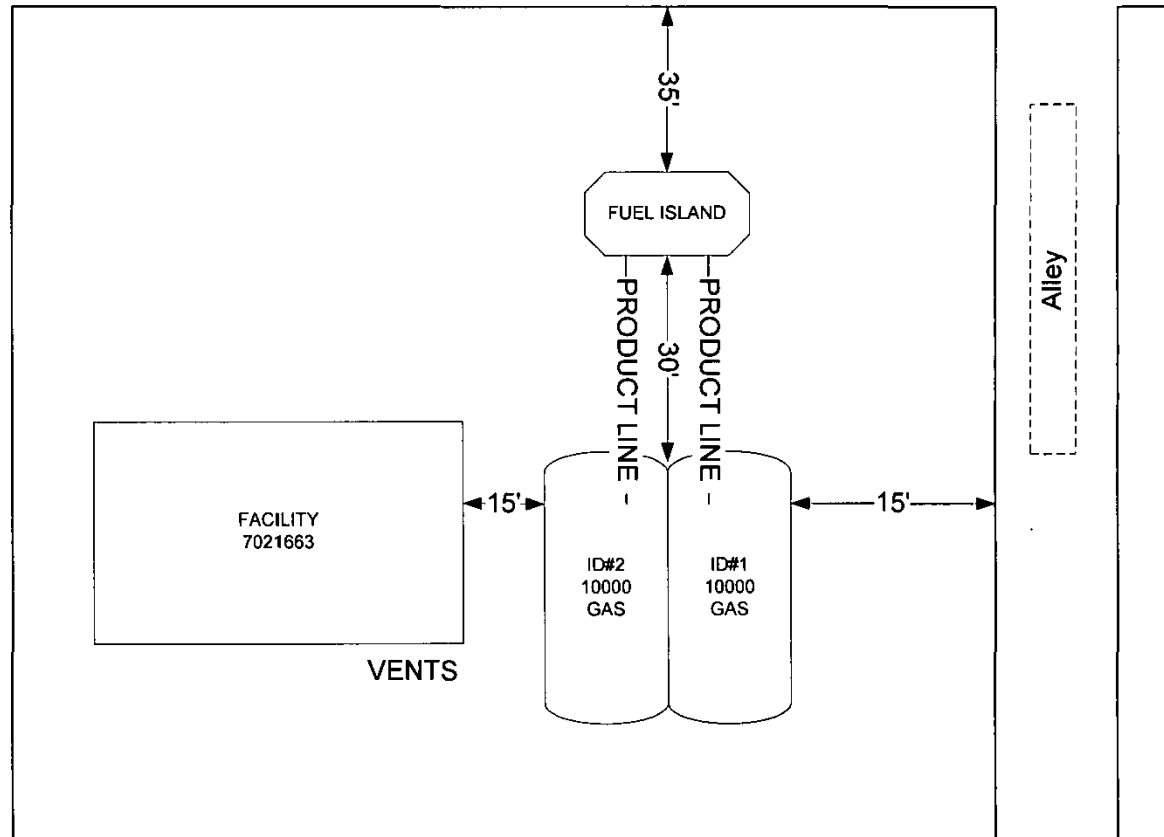
NOTE: Drawing attached



East Main Street

Date: 1-27-10
Facility: 7021663
Permit: 00007-2010REM
IEMA: H2009-1397
Note: Drawing not to scale

South State Street



Wallace

1930155021-White

APPLIED ENVIRONMENTAL TECHNOLOGIES, INC. *Maier's Grocery*

Bryan K. Williams
Professional Geologist/President

Unsub Tech

P.O. Box 303
Carmi, IL 62821
Bus. 618-382-8232
Fax 618-382-2462
Home 618-384-3601

September 16, 2010

Ms. Donna Wallace
Illinois Environmental Protection Agency
Bureau of Land #24, LUST Section
1021 North Grand Avenue East
P.O. Box 19276
Springfield, IL 62794-9276

RE: I.E.M.A. Incident 20091397
Site Investigation Plan Stage II/III
Maier's Grocery
109 South State Street
Crossville, IL 62821

Dear Ms. Wallace,

Please find enclosed the Site Investigation Plan Stage II/III regarding the above referenced site.

If you have any questions or need any additional information, please advise.

Sincerely yours,



Christy Churchwell
Administrative Assistant

Enclosure

cc: Mr. Mark Bayley, Martin & Bayley, Inc.

RELEASABLE

RECEIVED

OCT 19 2010

SEP 17 2010

REVIEWER MD

IEPA/BOL

The Agency is authorized to require this information under Section 4 and Title XVI of the Environmental Protection Act (415 ILCS 5/4, 5/57 - 57.17). Failure to disclose this information may result in a civil penalty of not to exceed \$50,000.00 for the violation and an additional civil penalty of not to exceed \$10,000.00 for each day during which the violation continues (415 ILCS 5/42). Any person who knowingly makes a false material statement or representation in any label, manifest, record, report, permit, or license, or other document filed, maintained or used for the purpose of compliance with Title XVI commits a Class 4 felony. Any second or subsequent offense after conviction hereunder is a Class 3 felony (415 ILCS 5/57.17). This form has been approved by the Forms Management Center.

**Illinois Environmental Protection Agency
Leaking Underground Storage Tank Program
LUST Technical Form Cover Page**

IEMA Incident #: H-20091397 IEPA LPC# (10-digit) 1930155021
 Site Name Maier's Grocery
 Site Address (Not a P.O. Box): 109 South State Street
 City: Crossville County: White ZIP Code: 62827

Please indicate below the type of plan/report that is being submitted to the Illinois EPA at this time. This form must be attached to all plans and reports submitted to the Illinois EPA pursuant to 35 Ill. Adm. Code 731, 732 and/or 415 ILCS 5/57-57.17. Please check all that apply.

20 Day Certification	_____	
45 Day Report	_____	
Free Product Removal Report	_____	
Owner/Operator Summary	_____	
Election to Proceed Under Title XVI	_____	
		Initial Submittal
Site Investigation Plan	<u>X</u>	Amended Submittal
Site Investigation Budget	<u>X</u>	_____
Site Investigation Completion Report	_____	_____
Site Classification Plan	_____	_____
Site Classification Plan Budget	_____	_____
Site Classification Completion Report	_____	_____
Groundwater Monitoring Plan (Low Priority)	_____	_____
Groundwater Monitoring Plan Budget (Low Priority)	_____	_____
Groundwater Monitoring Results (Low Priority)	_____	_____
Corrective Action Plan	_____	_____
Corrective Action Plan Budget (High Priority)	_____	_____
Corrective Action Completion Report	_____	_____
Professional Engineer Certification (High Priority)	_____	_____
Other (specify) _____	_____	_____

RELEASABLE

OCT 19 2010

REVIEWER MD

RECEIVED

SEP 17 2010

IEPA/BOL

I.E.M.A. INCIDENT NUMBER H-20091397

**SITE INVESTIGATION PLAN
STAGE II/III**

FOR

**MAIERS GROCERY
109 SOUTH STATE STREET
CROSSVILLE, IL 62827**

September 9, 2010

Submitted for:
Martin and Bayley, Inc.
P.O. Box 385
Carmi, Illinois 62821
(618) 382-2334

Submitted by:
Applied Environmental Technologies, Inc.
P.O. Box 303
Carmi, Illinois 62821
(618) 382-8232

Project No. 1,512

**RECEIVED
SEP 17 2010
IEPA/BOL**

**LEAKING UNDERGROUND STORAGE TANK PROGRAM
SITE INVESTIGATION PLAN STAGE II/III
TABLE OF CONTENTS**

<u>Page</u>	<u>Item</u>
1-3	Site Investigation Plan
4-17	Site Investigation Plan - Additional Information
 <u>Exhibit A</u>	
A-1	County Location Map
A-2	Site Location Map/Topographical Map
A-3	Tank Removal Sample Locations
A-4	General Site Map/Boring Locations
A-5	Proposed boring locations
A-6	Groundwater Flow Direction Map
A-7	Soil Analytical Results/Plume Map
A-8	Groundwater Analytical Results/Plume Map
A-9	Cross Sections A-A' – B-B' Locations
A-10	Cross Section A-A'
A-11	Cross Section B-B'
 <u>Exhibit B</u>	
B-1	Soil Boring Analytical Summary Tables, Laboratory Reports, Chain of Custody Form and IEPA Chemical Certification.
B-2	Groundwater Analytical Summary Tables, Laboratory Reports, Chain of Custodies, and IEPA Chemical Certification
 <u>Exhibit C</u>	
	Boring Logs
 <u>Exhibit D</u>	
	Monitoring Well Completion Diagrams
 <u>Exhibit E</u>	
	Groundwater Survey
 <u>Exhibit F</u>	
	Hydraulic Conductivity Analysis, Soil Bulk Density, Soil Particle Density, Moisture Content, Total Organic Carbon
 <u>Exhibit G</u>	
	Property Access Agreements

Exhibit I

Budget Form/ Stage II-III Budget Proposal



Illinois Environmental Protection Agency

Bureau of Land • 1021 N. Grand Avenue E. • P.O. Box 19276 • Springfield • Illinois • 62794-9276

The Agency is authorized to require this information under Section 4 and Title XVI of the Environmental Protection Act (415 ILCS 5/4, 5/57 – 57.17). Failure to disclose this information may result in a civil penalty of not to exceed \$50,000.00 for the violation and an additional civil penalty of not to exceed \$10,000.00 for each day during which the violation continues (415 ILCS 5/42). Any person who knowingly makes a false material statement or representation, orally or in writing, in any label, manifest, record, report, permit, or license, or other document filed, maintained or used for the purpose of compliance with Title XVI commits a Class 4 felony. Any second or subsequent offense after conviction hereunder is a Class 3 felony (415 ILCS 5/44 and 57.17). This form has been approved by the Forms Management Center.

Leaking Underground Storage Tank Program Site Investigation Plan

A. Site Identification

IEMA Incident # (6- or 8- digit): H-20091397 IEPA LPC # (10- digit): 1930155021

Site Name: Maier's Grocery

Site Address (not a P.O. Box): 109 South State Street

City: Crossville County: White Zip Code: 62827

Leaking UST Technical File

B. Site Information

1. Will the owner or operator seek payment from the Underground Storage Tank Fund? Yes No
2. If yes, is the budget attached? Yes No

C. Site Investigation

Provide the following:

1. Stage of investigation
 - a. Stage 2
 - b. Stage 3
2. Summary of Stage 1 or 2 site investigation activities;
3. Characterization of site and surrounding area:
 - a. Current and projected post-remediation uses;
 - b. Physical setting:
 - i. Environmental conditions;
 - ii. Geologic, hydrogeologic, and hydrologic conditions; and
 - iii. Geographic and topographic conditions;
4. Results of Stage 1 or 2 site investigation:
 - a. Map(s) showing locations of all borings and groundwater monitoring wells completed to date and groundwater flow direction;
 - b. Map(s) showing locations of all samples collected;
 - c. Map(s) showing extents of soil and groundwater contamination that exceeds the most stringent Tier 1 remediation objectives;
 - d. Cross-section(s) showing the geology and the horizontal and vertical extents of soil and groundwater contamination that exceeds the most stringent Tier 1 remediation objectives;
 - e. Analytical results, chain of custody forms, and laboratory certifications;

IL532 2747
LPC 619 Rev. July 2007

Site Investigation Plan
1 of 3

RECEIVED
SEP 17 2010
IEPA/BOL

- f. Table(s) comparing analytical results to the most stringent Tier 1 remediation objectives (include sample depth, date collected, and detection limits);
 - g. Potable water supply well survey (unless provided in previous plan):
 - i. Map(s) to scale showing:
 - a) Locations of community water supply wells and other potable wells and the setback zone for each well;
 - b) Location and extent of regulated recharge areas and wellhead protection areas;
 - c) Extent of groundwater contamination exceeding the most stringent Tier 1 remediation objectives; and
 - d) Modeled extent of groundwater contamination exceeding the most stringent Tier 1 remediation objectives (if performed as part of site investigation);
 - ii. Table(s) listing the setback zones for each community water supply well and other potable water supply wells;
 - iii. A narrative identifying each entity contacted to identify potable water supply wells, the name and title of each person contacted, and any field observations associated with any wells identified; and
 - iv. A certification from a Licensed Professional Engineer or Licensed Professional Geologist that the survey was conducted in accordance with the requirements and that documentation submitted includes information obtained as a result of the survey;
 - h. Soil boring logs and monitoring well construction diagrams;
 - i. Proposal for determining the following parameters:
 - i. Hydraulic conductivity (K);
 - ii. Soil bulk density (p_b);
 - iii. Soil particle density (p_s);
 - iv. Moisture content (w); and
 - v. Organic carbon content (f_{oc}); and
 - j. Budget forms of actual costs (documenting actual work performed during the previous stage).
5. Stage 2 or 3 sampling plan:
- a. Description of and justification for additional activities proposed as part of the plan;
 - b. A map depicting locations of proposed borings and groundwater monitoring wells; and
 - c. Depth of borings/wells and construction details of proposed borings and wells; and
6. Site maps meeting the requirements of 35 Ill. Adm. Code 734.440.

Continue onto next page.

D. Signatures

All plans, budgets, and reports must be signed by the owner or operator and list the owner's or operator's full name, address, and telephone number.

UST Owner or Operator

Name: Martin & Bayley, Inc.
Contact: Mr. Mark Bayley
Address: P.O. Box 385
City: Carmi
State: IL
Zip Code: 62821
Phone: (618)382-2334
Signature: *Mark Bayley*
Date: 9/15/10

Consultant

Company: Applied Environmental Tech., Inc.
Contact: Mr. Bryan Williams
Address: P.O. Box 303
City: Carmi
State: IL
Zip Code: 62821
Phone: (618)382-8232
Signature: *Bryan Williams*
Date: 9/15/10

I certify under penalty of law that all activities that are the subject of this report were conducted under my supervision or were conducted under the supervision of another Licensed Professional Engineer or Licensed Professional Geologist and reviewed by me; that this report and all attachments were prepared under my supervision; that, to the best of my knowledge and belief, the work described in this report has been completed in accordance with the Environmental Protection Act [415 ILCS 5], 35 Ill. Adm. Code 734, and generally accepted standards and practices of my profession; and that the information presented is accurate and complete. I am aware there are significant penalties for submitting false statements or representations to the Illinois EPA, including but not limited to fines, imprisonment, or both as provided in Sections 44 and 57.17 of the Environmental Protection Act [415 ILCS 5/44 and 57.17].

Licensed Professional Engineer or Geologist

L.P.E. or L.P.G. Seal

Name: Bryan Williams
Company: Applied Environmental Tech., Inc.
Address: P.O. Box 303
City: Carmi
State: IL
Zip Code: 62821
Phone: (618)382-8232
Ill. Registration No.: 196.000366
License Expiration Date: 3/31/2011
Signature: *Bryan Williams*
Date: 9/15/10



RECEIVED
SEP 17 2010
IEPA/BOL

Stage 2/3 Site Investigation Plan – Additional Information
Maiers Grocery
109 South State Street
Crossville, IL 62827
IEMA Incident Number H-20091397

C. Site Investigation

1. Stage of Investigation

The following is a Stage 2/3 Site investigation Plan and Budget that presents the findings of the Stage 1 Site Investigation, and proposes additional borings to define the area of contamination. Up to seven (7) additional borings which will be completed as groundwater monitoring wells are proposed. Four (4) shall be advanced off-site, and three (3) shall be advanced on-site, and all of the borings shall be completed as groundwater monitoring wells. Refer to Exhibit A for a Site Map illustrating the locations of the proposed borings. A detail of the proposed borings, monitoring wells and analytical parameters will be discussed in the following sections. The plan is being submitted as both a Stage II/III plan as both onsite and offsite borings need to be performed.

2. Summary of Stage I Site Investigation Activities

On June 2nd, 2010, Stage I Site Investigation activities were initiated. Advanced Environmental Drilling was contracted to collect continuous soil samples using a Geoprobe from the surface to a depth of fifteen (15) feet. Following collection of the soil samples from the borings with the Geoprobe, the auger attachment was utilized to complete the borings as groundwater monitoring wells. A total of five (5) borings were advanced on site, and five (5) borings were completed as groundwater monitoring wells. Refer to Exhibit A for a Site Map

illustrating the location of the borings. Soil samples were collected from every five (5) foot interval from the borings (starting at 2.5 feet) and analyzed for the gasoline indicator contaminants BTEX, MTBE and TCLP Lead. Refer to Exhibit C for the boring logs and FID readings.

The soil samples were logged in the field book for color, petroleum odors, lithology and any abnormalities that were encountered. Boring logs prepared from this information are presented in Exhibit C. A portion of each sample was placed in a sealed plastic bag allowed to volatize approximately five (5) minutes and screened with a calibrated flame ionization detector meter. Select samples were placed in glass vials with 5035 Prep preservatives. The samples were then preserved on ice, documented with a chain of custody, and delivered Environmental Science Corp. for analysis.

On June 30, 2010 five (5) groundwater monitoring wells installed at the site were surveyed, depth to groundwater was measured, they were purged, sampled and a slug test was performed. The wells were sampled for BTEX, MTBE and lead. The groundwater monitoring wells were purged dry and the wells were allowed to recharge prior to sampling. The wells were purged with a low flow submersible pump. The samples were collected with disposable bailers.

Boring B-1 (MW-1) was advanced west of the tank pit at the property line. A moist interval was encountered at a depth of eight (8) feet below ground level, but this interval had been exposed in the tank pit for several days and did not make any water. The boring was advanced deeper. Water seepage in the tank pit was coming from a depth over ten (10) feet (tank pit floor, seepage) so the boring was advanced

to a depth of fifteen (15) feet below ground level. A wet sandy interval was encountered at a depth of thirteen (13) feet below ground level. Soil samples No. 1 No. 2 and No.3 were collected at depths of 2.5, 7.5 and 12 feet respectively. The soil and groundwater samples collected from B-1, completed as MW-1, were below remediation objectives. Based on the analytical results the soil and groundwater appear to be defined to the west by this boring. A sample from this boring was analyzed for total organic carbon and the results are shown in A-4.

B-2 (MW-2) was positioned north of the UST System. Soil samples No. 4, No. 5, and No.6 were collected at depths of 2.5, 7.4 and 10 feet respectively. This boring was also completed as a groundwater monitoring well. Soil sample No. 5 collected at a depth of seven and one-half (7.5) feet, was above objectives for Benzene. Monitoring Well No. 2 is above groundwater objectives for Benzene. Groundwater was encountered in B-2 at a depth of eleven (11) feet below ground level. Based on the analytical results, additional delineation will be required to the north and east of B-2.

Boring No. 3 (MW-3) was advanced along the east property line, east of the dispensers. Groundwater was encountered at a depth of twelve (12) feet below ground level. Soil samples No. 7, No. 8 and No. 9 were collected at depths of 2.5, 7.5 and 10 feet below ground level. The boring was completed as Monitoring Well No. 3. Though visible evidence of soil contamination was observed in B-3 the FID readings were low. The soil samples did not exhibit any strong gasoline odors. The soil samples collected from B-3 were below objectives. The groundwater sample collected from MW-3 was above remediation objectives, and higher than any

groundwater results on site. Based on the analytical results and the groundwater flow information, the contamination could potentially be migrating from the LUST site across Illinois Route 1 and 14 east of the subject site. Monitoring wells have been installed along the right of way east the subject site by the consultant for the offsite operator. Refer to Exhibit A Groundwater Flow Direction Map.

B-4 (MW-4) was advanced near the south property line between the dispenser samples that were above objectives and the property line. Soil samples No. 10, No. 11 and No. 12 were collected at depths of 2.5, 7.5 and 10 feet. Groundwater was encountered at a depth of eleven and one half (11.5) feet and B-4 was completed as Monitoring Well No. 4. The soil samples collected from B-4 were below objectives for BTEX/MTBE. However, soil sample No. 12, collected at a depth of ten (10) feet, was above objectives for lead. The groundwater sample collected from MW-4 was below remediation objectives. Based on the analytical results additional delineation south of B-4 (MW-4) will be necessary.

B-5 (MW-5) was advanced between the south property line and the tank pit. Samples were collected and screened with the FID meter at 2.5' and 7.5' feet depths. At a depth of ten (10) feet refusal was encountered and it was necessary to auger through this interval for monitoring well installation. Hard clay soils can be very difficult to penetrate with a geo-probe. Even if you can penetrate the clay, the acetate liner will become crinkled and compacted in the steel tube. This results in wasted time trying to remove the liner. Groundwater was encountered at eleven (11) feet (estimated from auger samples) and no samples were collected below groundwater.

The groundwater present at the site was encountered primarily at a depth of approximately eleven (11) feet below ground level. All wells had sufficient water for purging and collection of groundwater samples. The wells purged dry with a low flow submersible pump and were allowed to recharge prior to sampling.

MW-3 was set along the east property line between the dispensers and the property line. The soil encountered in this boring had visible evidence of contamination and negligible odors but the highest FID reading encountered was at a depth of seven (7) feet. The soil samples collected from this interval were below remediation objectives. The groundwater, however, was the highest level of impactation encountered at the site. This well is located hydraulically up gradient from the area of soil contamination on site. The analytical results indicated that the groundwater contamination in MW-3 may be influenced from the open LUST Site east of the subject property. Refer to analytical results and groundwater flow direction map.

Results of this Stage I Site Investigation indicated that additional soil and groundwater testing will be required to define the area of contamination. Additional borings/monitoring wells are proposed.

3. Characterization of the site and surrounding area:

a. Current and projected post-remediation uses;

The property is currently still in use as a convenience store and fuel station. A new UST System was installed following removal of the old leaking tanks. A new tank was installed in the center of the leaking tank pit following remediation.. It

is believed that the future use of the site will consist of a convenience store with fuel sales.

b. Physical setting:

i. Environmental Conditions;

The subject property is located in an area that consists of commercial and residential properties. North of the subject site across Main Street is a former service station. Based on personal knowledge of this removal the site was extremely contaminated. Northeast of the subject property is a former service station site. East of the site across Illinois Routes 1 & 14 is a LUST site. It is unknown if an NFR has been issued. It is assumed this is an open incident as monitoring wells are located in the right-of-way adjacent to the subject property. In summary, lust sites are located east, north and northeast of the subject property.

Results of the Stage I Site Investigation groundwater investigation appear to indicate that potential BTEX contamination may be impacting the subject site from the east. MW3 is located hydraulically up gradient of contamination from the area of contamination on site. The soil in MW3 is below remediation objectives; yet, the groundwater contamination in this well is the highest level encountered on site. Hence, there may be some overlapping areas of contamination. It is recommended that the agency consider approving delineation to the east based on the groundwater investigation performed by the offsite consultant to the east. Based on the groundwater flow direction the site to the east should be clean on its east side delineating the area of contamination. There are not any additional environmental conditions known to exist in this area.

ii. Geologic, hydrogeologic, and hydrologic conditions;

Geology in the area of the site consists of clay to silty clay soil from the surface to approximately 15 feet below ground level. Groundwater is present in a slightly sandy till interval encountered in the borings at a depth of approximately eleven (11) to thirteen (13) feet below ground level. The site investigation borings were advanced to a depth of fifteen (15) feet below ground level. An in-situ hydraulic conductivity analysis was performed. The Bower and Rice Method was used to calculate the hydraulic conductivity at 1.74×10^{-4} cm/sec. This represents the highest permeability in the wells. It should be remembered that lower permeability material lies above and below the water-bearing interval. These lower permeability clays do retard the vertical migration of the contaminants.

The clay till in this area does not typically contain any major aquifers. The clay till in this area overlies the Pennsylvanian Bedrock System. Sandstones in the Pennsylvanian System can be developed as aquifers but the water quality and yield typically varies from area to area. Bedrock in the Pennsylvanian System consist of alternating formations of sandstone, siltstone, shale, and coal. The lithology of Pennsylvanian Bedrock changes in very short distances. Shallow groundwater flow in this area will typically follow the surface topography.

The unconsolidated material and bedrock in this area typically have limited yield with varying water quality. The Village of Crossville purchases water from the City of Carmi. The City of Carmi obtains water from wells located approximately five (5) miles southwest of Crossville.

iii. Geographic and topographic conditions;

The subject site is located in Crossville, IL in an area consisting of commercial as well as residential properties. Main Street borders the site to the North and Illinois State Route 1/14 to the east. The site is located in an upland area that is relatively flat with very little topographical relief. Refer to the topographical map in Exhibit A. The site also has a very low hydraulic gradient which is indicative of sites with very little topographical relief. There is no reason to believe that any geographical or topographical conditions exist that will adversely affect the site or contamination.

4. Results of Stage I or II Site Investigation:

a. Map(s) showing locations of all borings and groundwater monitoring wells completed to date and groundwater flow direction;

Refer to Exhibit A for the locations of all borings, groundwater monitoring wells, and the groundwater flow direction map. The groundwater elevation in MW4 does not appear to be representative of the hydraulic gradient. It is recommended that the wells be resurveyed during Stage II/III testing.

Map(s) showing locations of all samples collected;

Refer to Exhibit A for the locations of the samples collected following the tank removal and from Site Investigation.

b. Map(s) showing the extent of contamination that exceeds the most stringent Tier I remediation objectives;

The full extent of contamination has not been determined. An inferred area of contamination has been provided. This will be revised following additional

delineation. Refer to Exhibit A for a map illustrating the area of contamination based on the available information.

c. Cross-section(s) showing the geology and the horizontal and vertical extents of soil and groundwater contamination that exceeds the most stringent Tier I remediation objectives;

Refer to Exhibit A for cross-sections illustrating the geology and extents of contamination based on the currently available data.

e. Analytical results, chain of custody forms, and laboratory certifications;

Refer to Exhibit B for an analytical summary table, laboratory reports, chain of custody documents, and laboratory certifications.

f. Table(s) comparing analytical results to the most stringent Tier I Remediation Objectives;

Refer to Exhibit B for the analytical summary tables. The IEPA project manager on call was consulted and Applied Environmental Technologies, Inc. instructed to delineate to residential objectives both on and off-site.

g. Potable water supply well survey;

a) Locations of community water supply wells and other potable wells and the setback zone for each well;

Refer to Exhibit E for the location of municipal and private potable water supply wells located in the area of the site. The Village of Crossville permitted two water supply wells northwest of the site to a depth of approximately forty-one (41) feet. The records indicate that one (1) well was drilled and completed to a depth of forty-one (41) feet. According to the Village of Crossville Water Department

Superintendent this well is not in use and has been plugged. The Village of Crossville obtains water from the City of Carmi, Illinois.

b) Location and extent of regulated recharge areas and wellhead protection areas;

Refer to Exhibit E for the water well survey information. The site is provided water by the City of Crossville which obtains water from the City of Carmi. The City of Carmi water wells are located 5 miles southwest of Crossville.

c) Extent of groundwater contamination exceeding the most stringent Tier I remediation objectives;

Refer to Exhibit A for a map illustrating the locations of the groundwater monitoring wells installed at the site. Seven (7) additional borings/wells are proposed. The extent of groundwater contamination has not been defined but an area of inferred contamination has been mapped based on the available information. Refer to the Site Map in Exhibit A for the locations of the proposed wells.

d) Modeled extent of groundwater contamination exceeding the most stringent Tier I remediation objectives;

Additional delineation is required prior to modeling. The plumes are not defined and therefore the area of contamination cannot be defined.

ii) Table(s) listing the setback zones of each community water supply well and other potable water supply wells;

Refer to Exhibit E for all groundwater survey information. Mr. Chuck Conner, Superintendent of the Crossville Water Department, was contacted

regarding a potential well northwest of the subject site. According to Mr. Conner this well has been plugged and does not exist.

- iii) **A narrative identifying each entity contacted to identify potable water supply well, the name and title of each person contacted, and any field observations associated with any wells identified;**

Refer to Exhibit E for the potable water supply well survey. All well records (public and private) available from the Illinois State Water Survey, Illinois State Geological Survey, and IEPA Source Water Assessment Program have been obtained and reviewed. The Egyptian Health Department was contacted regarding knowledge of any private or municipal water supply wells in the area of the site. Mr. Chuck Conner, Superintendent of the Village of Crossville Water Department, was consulted regarding municipal and private water supply wells in the area of the site. The health department was unaware of any water wells in the area of the site.

According to Mr. Chuck Conner the Village of Crossville purchases water from the City of Carmi, Illinois. The City of Carmi, Illinois obtains water from wells located approximately five (5) miles southwest of Crossville, Illinois. Mr. Conner indicated that known of the residences or businesses in the area of the have private water supply wells. Mr. Conner indicated no one to his knowledge had private water supply wells in the area of the site.

- iv) **A certification from a Licensed Professional Engineer or Licensed Professional Geologist that the survey was conducted in accordance with the requirements and that documentation submitted includes information obtained as a result of the survey;**

Refer to the certification page in the forms section of the report.

h. Soil boring logs and monitoring well construction diagrams;

Refer to Exhibit C for copies of the soil boring logs and refer to Exhibit D for the monitoring well completion diagrams.

i. Proposal for determining the following parameters:

i. Hydraulic Conductivity (K);

A slug test was performed on monitoring well MW1. The results indicated a hydraulic conductivity of 1.74×10^{-4} cm/sec. Refer to Exhibit F for the results. The Hydraulic Conductivity was determined using the Bower and Rice Method.

ii. Soil bulk density;

Refer to Exhibit B-4 for the soil bulk density.

iii. Soil Specific Gravity;

Refer to Exhibit B-4 for the soil specific gravity.

iv. Moisture content;

Refer to Exhibit B-4 for the moisture content.

v. Organic carbon content;

A soil sample was collected in order to determine the organic carbon content of the soil at the site. The results of this analysis are located in Exhibit F.

j. Budget forms of actual costs (documenting actual work performed in the previous stage;

Refer to Exhibit H for the completed budget forms.

5. Stage 2 or 3 Sampling Plan:

a. Description of and justification for additional activities proposed as part of the plan;

Following the Stage I Site Investigation it was apparent that additional delineation of the soil and groundwater contamination will be required. It is proposed that boring B-6 shall be advanced along the north property line. Proposed boring B-7 shall be advanced east of the site on the property presently occupied by the Green Onion restaurant. Proposed borings B-8, B-11 and B-12 shall be advanced on the property south of the site, currently occupied by a pet grooming business. Proposed borings B-9 and B-10 shall be advanced along the east property line. All of the proposed borings shall be completed as groundwater monitoring wells. All proposed boring locations have been submitted to and approved by the project manager. Property access agreements will be drafted and sent to the offsite property owners prior to drilling the proposed borings. Also, all offsite property owners, as a matter of courtesy, will be notified before the property access agreements are mailed. Refer to Exhibit A for the locations of these proposed borings.

b. A map depicting locations of proposed borings and groundwater monitoring wells;

Refer to Exhibit A for a site map illustrating the locations of the proposed borings/wells.

c. Depth of borings/wells and construction details of the proposed borings and wells;

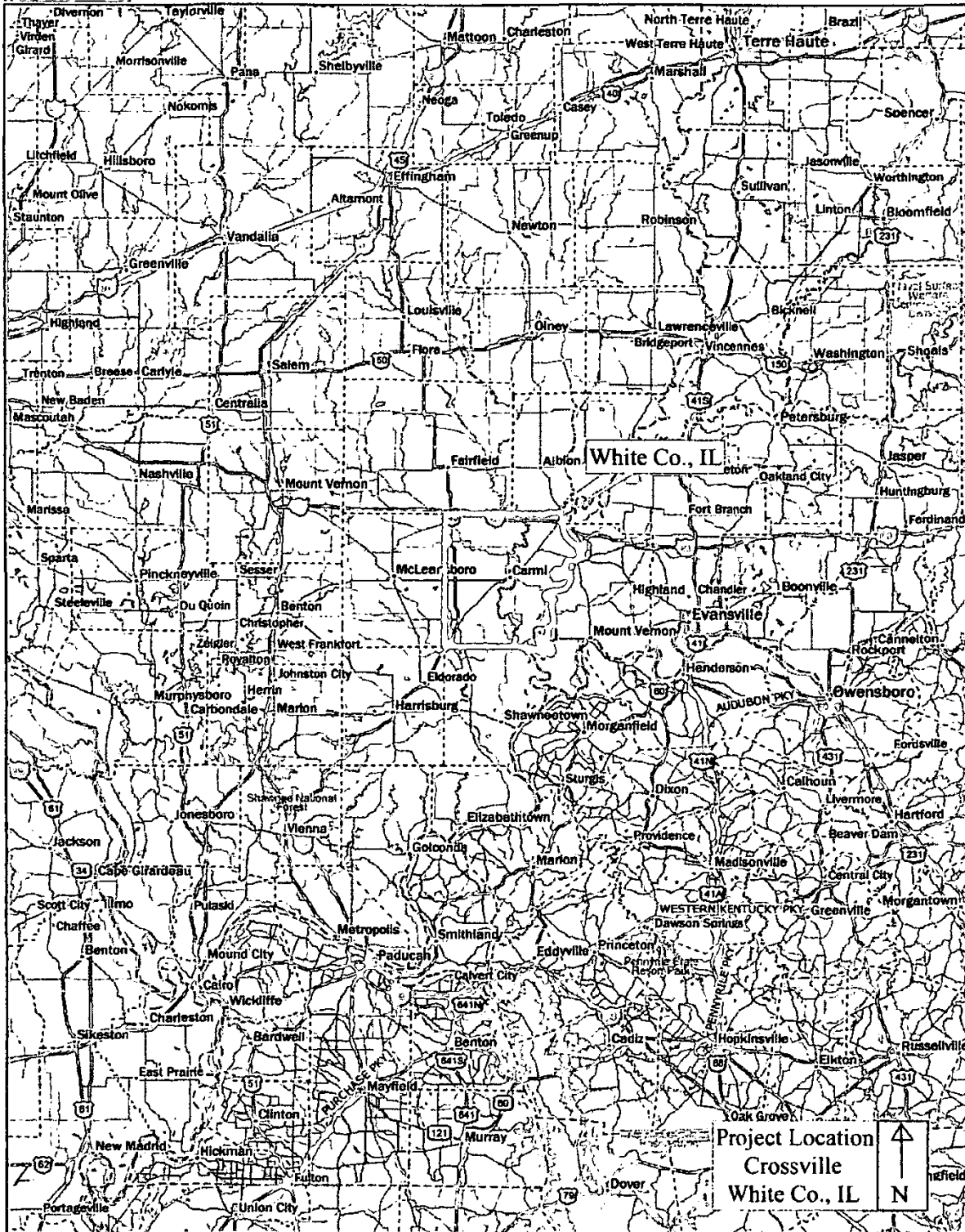
The borings shall be advanced to a maximum depth of fifteen (15) feet below ground level. Samples shall be collected from each five foot interval for analysis of BTEX, MTBE and TCLP lead. The wells shall be completed with ten (10) feet of screen and five (5) feet of riser. This will allow for the proper sampling of any free phase hydrocarbons as well as any dissolved phase hydrocarbons. The depth of fifteen (15) feet is appropriate, as the wells need to be set at least to a depth below the invert elevation of the tanks in order to properly characterize the site.

Groundwater was encountered between eleven (11) and fifteen (15) feet below ground level. It is necessary to advance the borings to a depth of fifteen (15) feet below ground level using a geo-probe with five (5) foot stainless steel sample tubes.

6. Site maps meeting the requirements of 35 IL. Adm. Code 734.440

Refer to Exhibit A for the Site Maps.

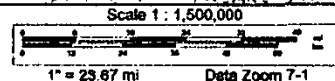
Exhibit A

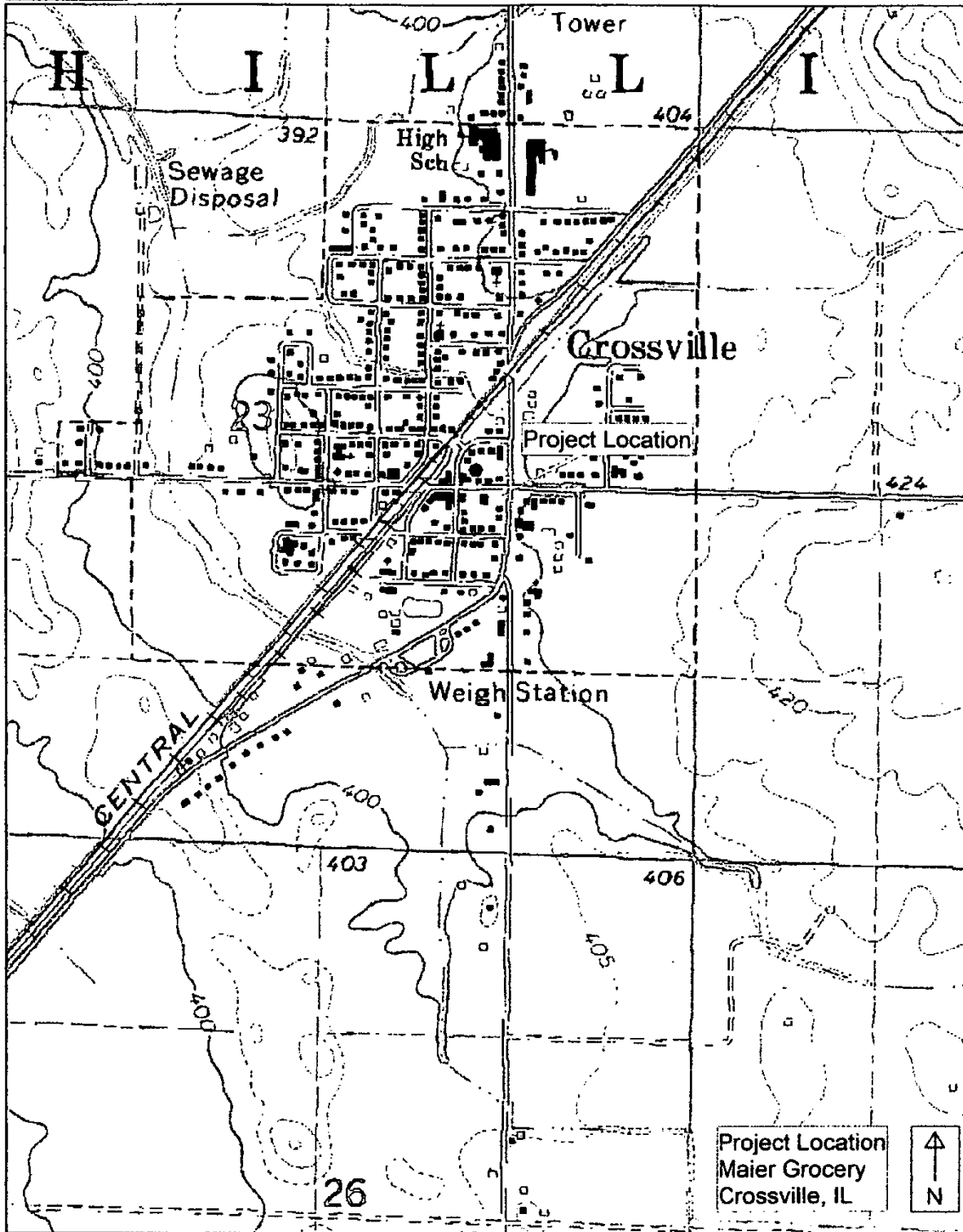


Data use subject to license.

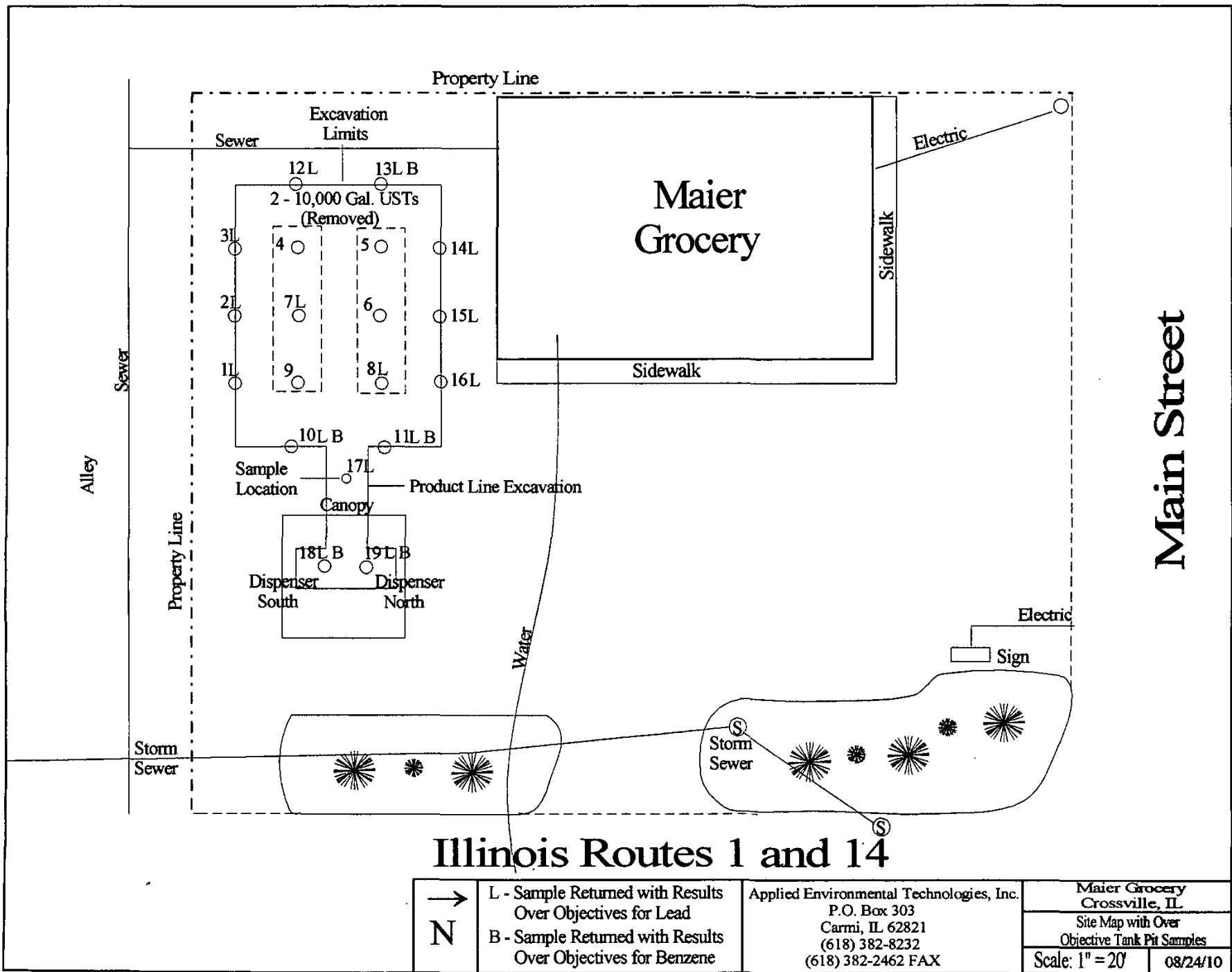
© DeLorme. DeLorme Topo USA® 7.0.

www.delorme.com



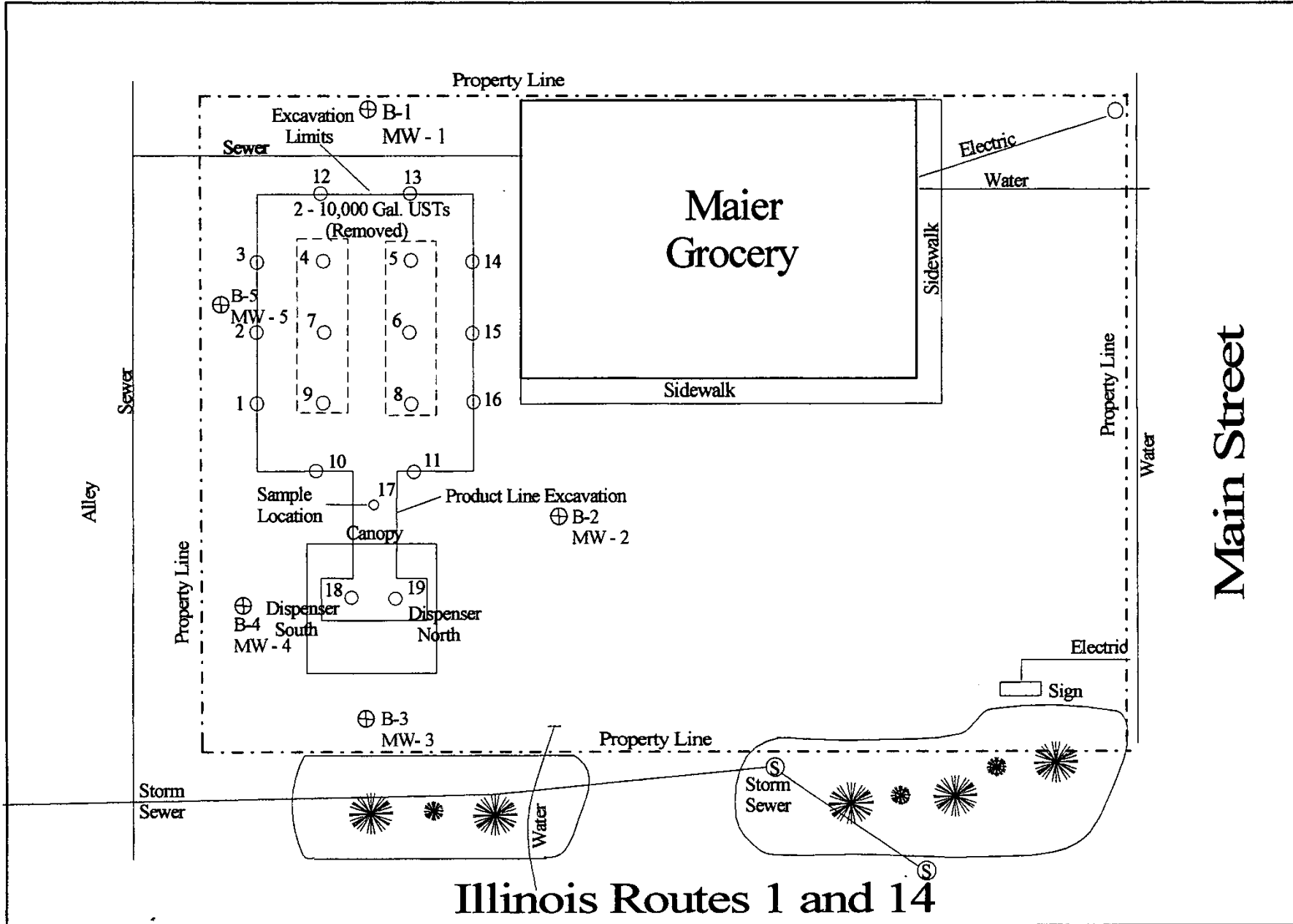


Data use subject to license.
 © 2004 Delorme. Topo USA® 5.0.
 www.delorme.com



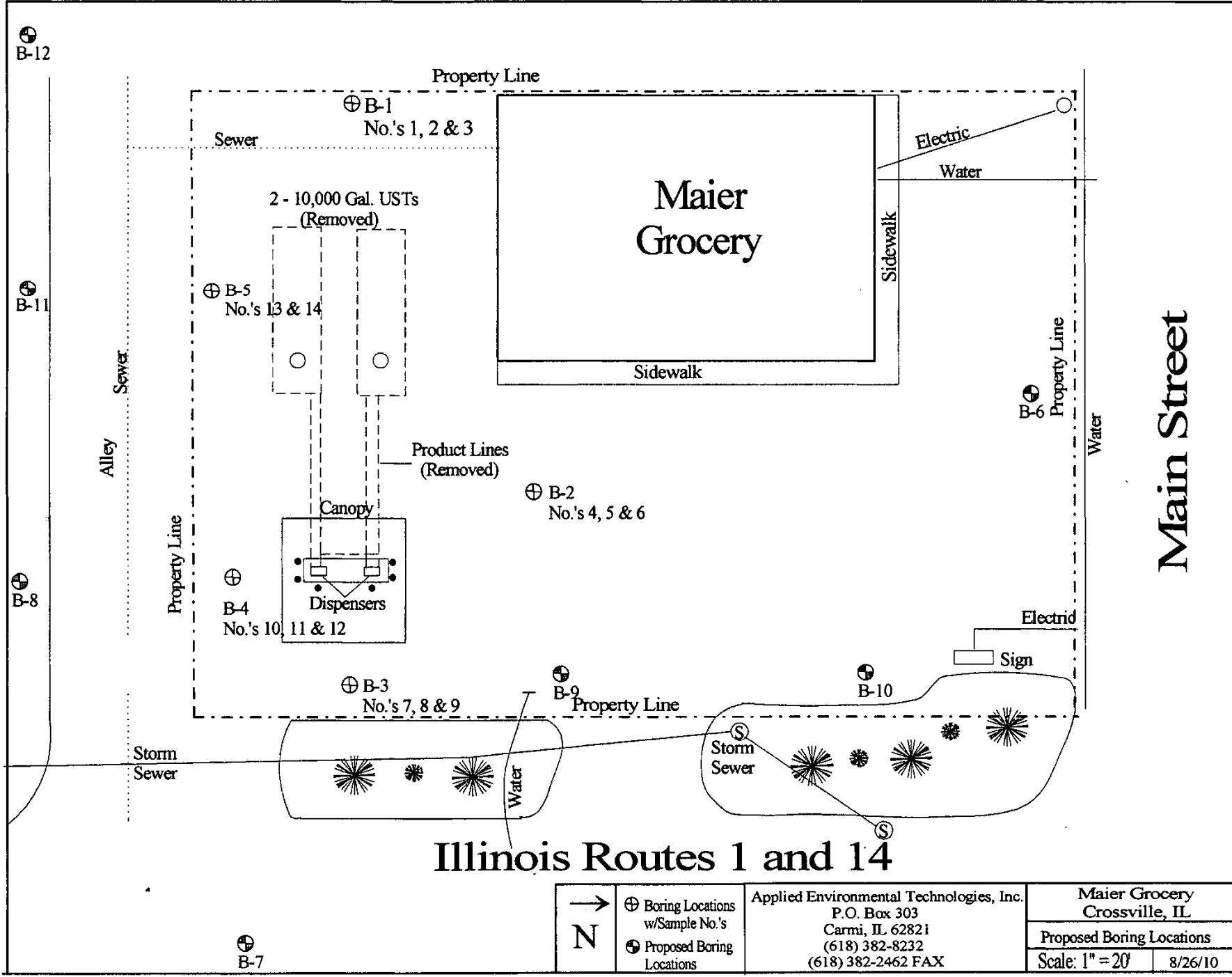
000233

→ N	L - Sample Returned with Results Over Objectives for Lead	Applied Environmental Technologies, Inc. P.O. Box 303 Carmi, IL 62821 (618) 382-8232 (618) 382-2462 FAX	Maier Grocery Crossville, IL	
	B - Sample Returned with Results Over Objectives for Benzene		Site Map with Over Objective Tank Pit Samples	
			Scale: 1" = 20'	08/24/10



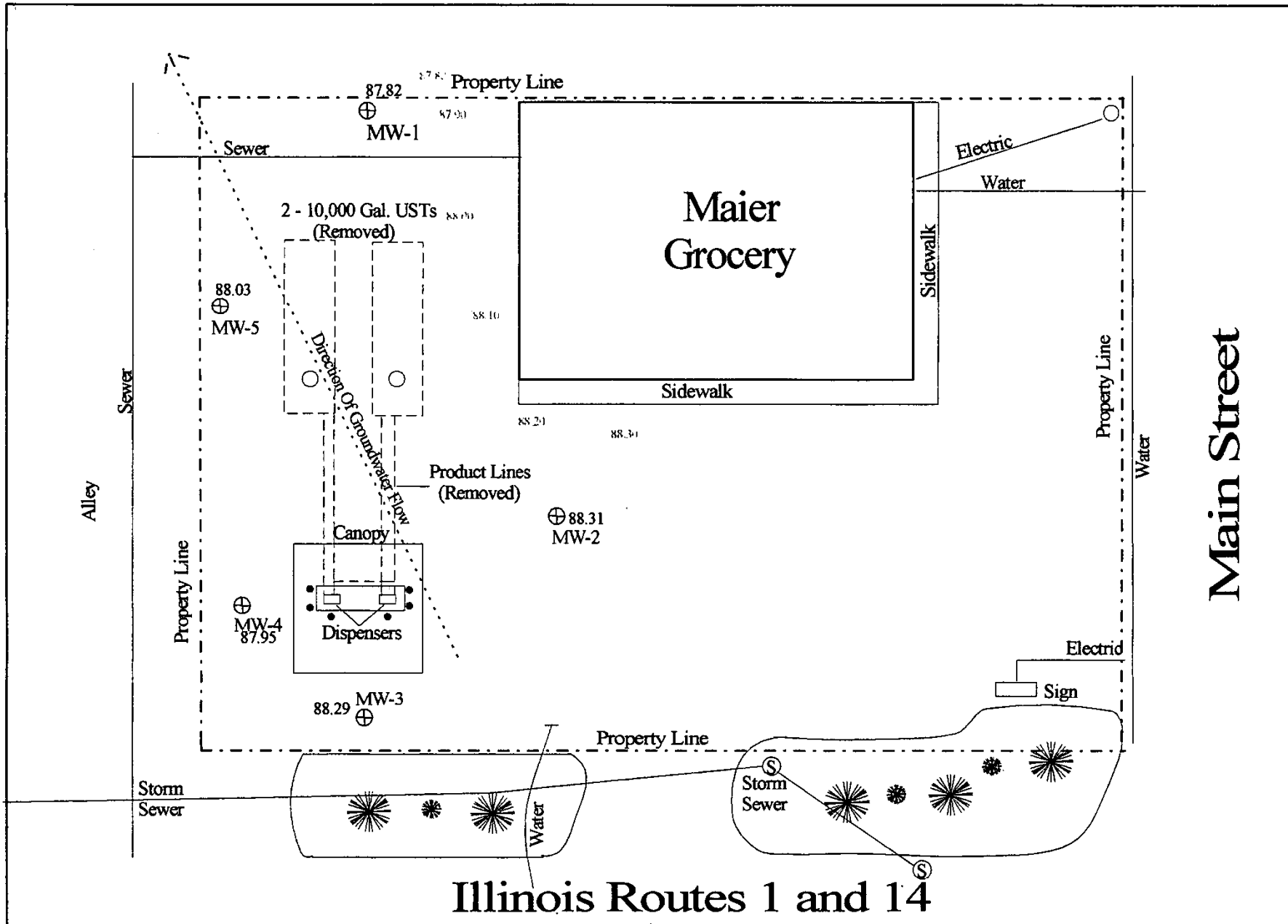
Illinois Routes 1 and 14

→ N	⊕ Boring Locations	Applied Environmental Technologies, Inc. P.O. Box 303 Carmi, IL 62821 (618) 382-8232 (618) 382-2462 FAX	Maier Grocery Crossville, IL	
	○ Tank Pit Sample Locations		General Site Map with Boring and Sample Locations Scale: 1" = 20' 8/24/10	



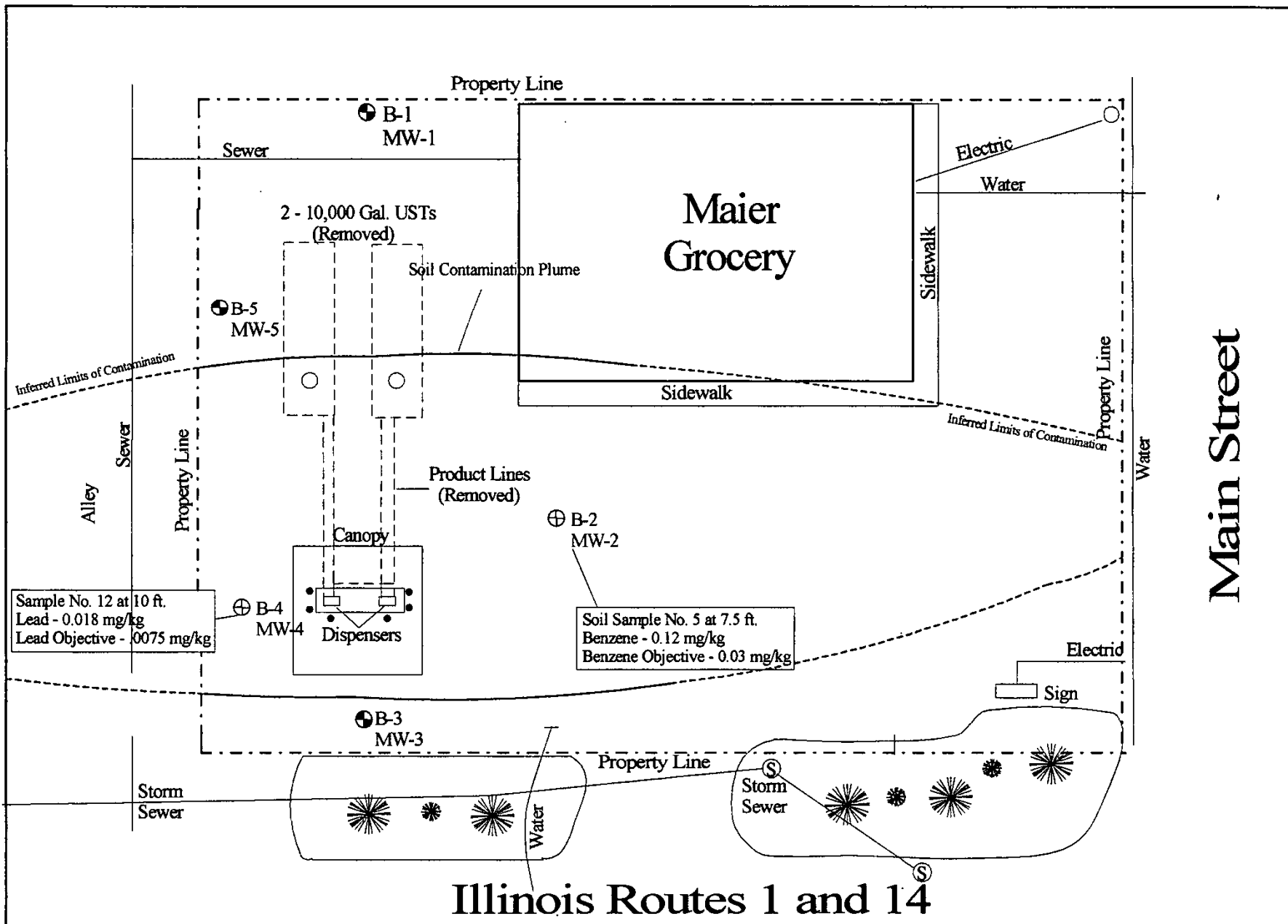
Illinois Routes 1 and 14

→ N	⊕ Boring Locations w/Sample No.'s	Applied Environmental Technologies, Inc. P.O. Box 303 Carmi, IL 62821 (618) 382-8232 (618) 382-2462 FAX	Maier Grocery Crossville, IL	
	⊙ Proposed Boring Locations		Proposed Boring Locations	
			Scale: 1" = 20'	8/26/10

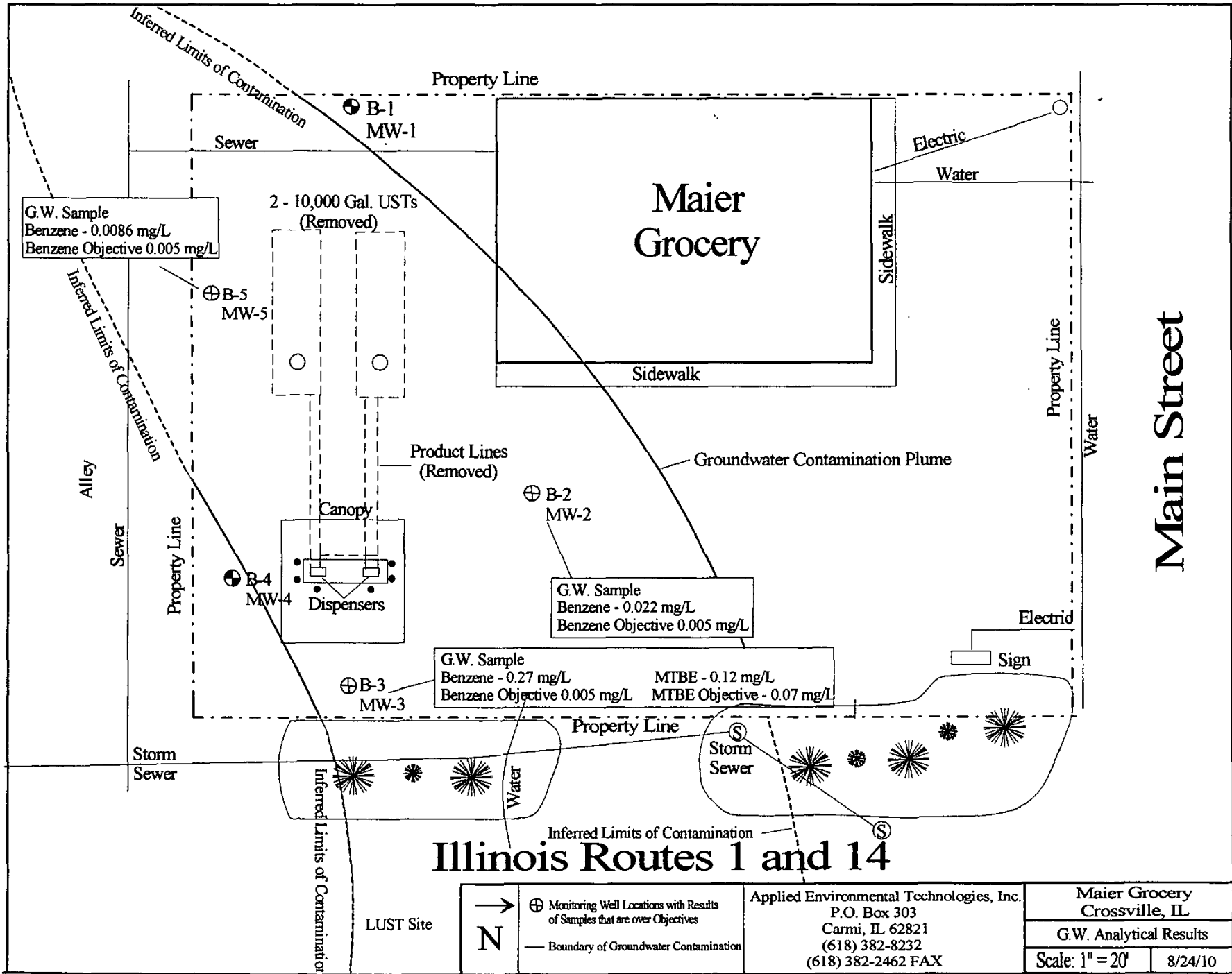


Illinois Routes 1 and 14

 N	⊕ Monitoring Well Locations — Calculated Flow Dir. - - Average G.W. Flow Dir.	Applied Environmental Technologies, Inc. P.O. Box 303 Carmi, IL 62821 (618) 382-8232 (618) 382-2462 FAX		Maier Grocery Crossville, IL	
				Groundwater Flow Direction Scale: 1" = 20' 8/24/10	



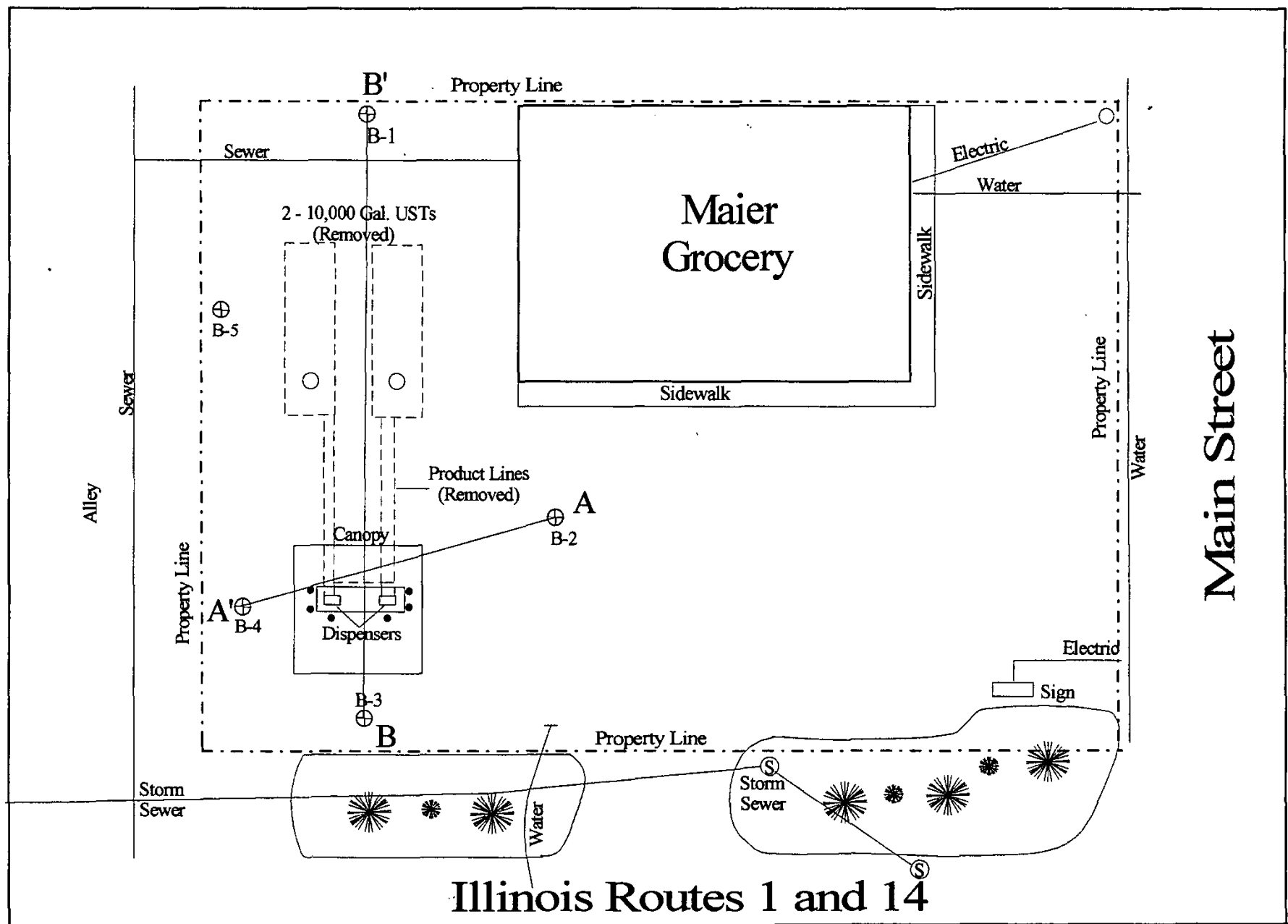
 N	⊕ Boring Locations with Results of Samples that are over Objectives - Boundary of Soil Contamination	Applied Environmental Technologies, Inc. P.O. Box 303 Carmi, IL 62821 (618) 382-8232 (618) 382-2462 FAX		Maier Grocery Crossville, IL	
		Soil Sample Analytical Results and Contamination Plume			
		Scale: 1" = 20'		8/24/10	



<p>→</p> <p>N</p>	<p>⊕ Monitoring Well Locations with Results of Samples that are over Objectives</p>
	<p>— Boundary of Groundwater Contamination</p>

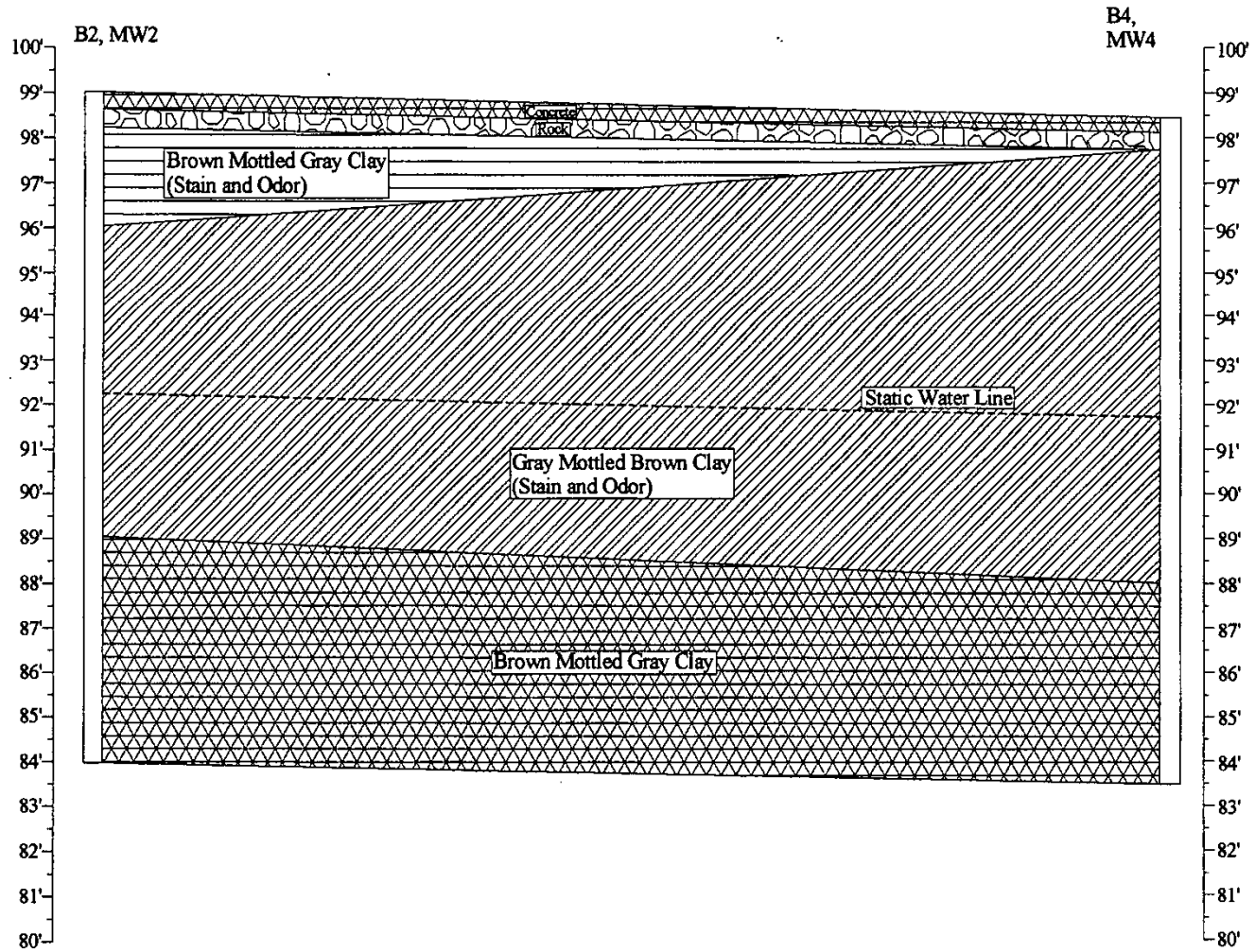
Applied Environmental Technologies, Inc.
 P.O. Box 303
 Carmi, IL 62821
 (618) 382-8232
 (618) 382-2462 FAX

<p>Maier Grocery Crossville, IL</p>	
<p>G.W. Analytical Results</p>	
<p>Scale: 1" = 20'</p>	<p>8/24/10</p>

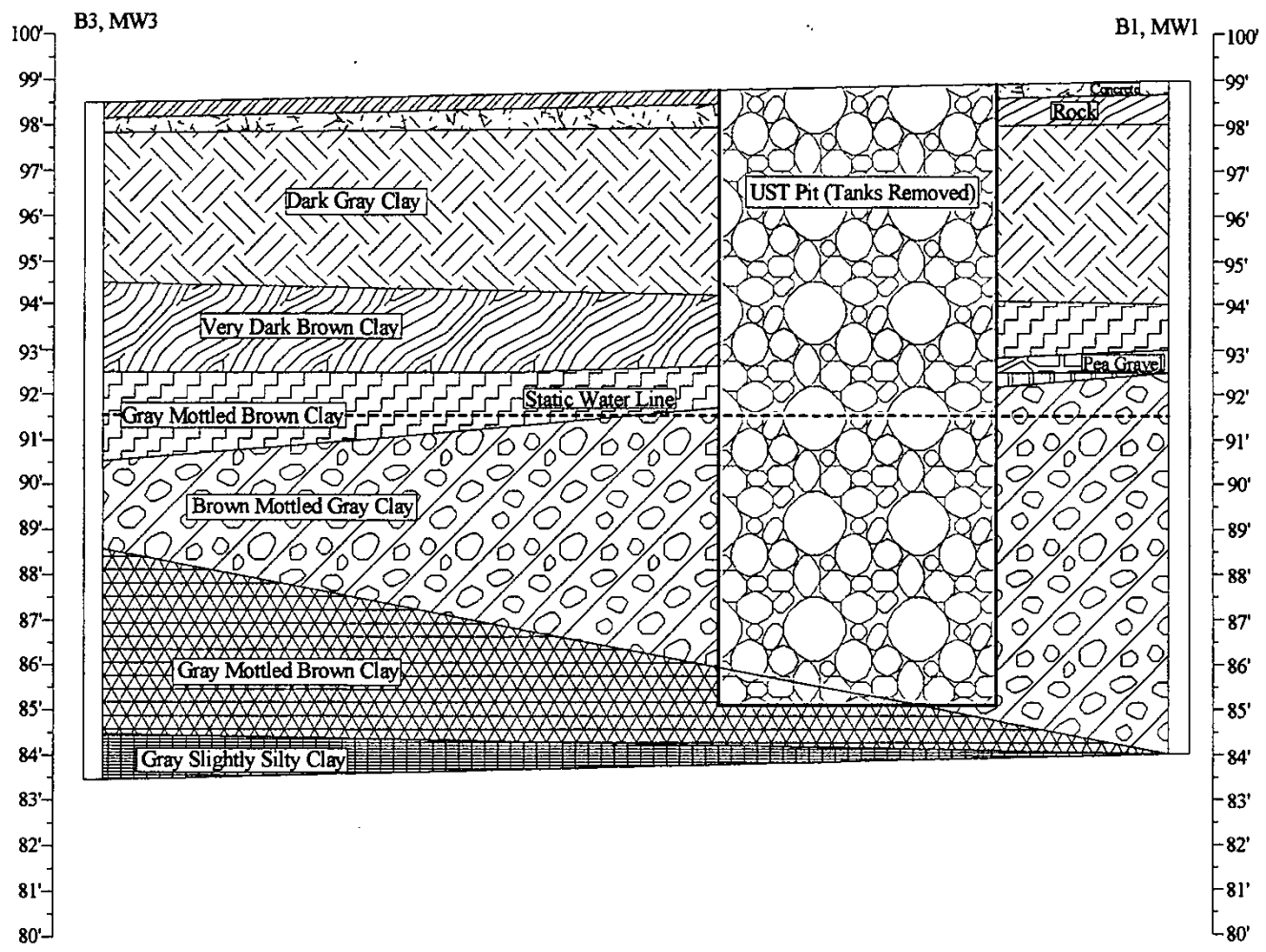


Illinois Routes 1 and 14

<p>→ N</p>	<p>⊕ Boring Locations</p>	<p>Applied Environmental Technologies, Inc. P.O. Box 303 Carmi, IL 62821 (618) 382-8232 (618) 382-2462 FAX</p>		<p>Maier Grocery Crossville, IL</p>	
				<p>Cross Sections A-A' and B-B'</p>	
				<p>Scale: 1" = 20'</p>	<p>9/9/10</p>



Horizontal Scale: 1" = 20' Vertical Scale on Drawing	Applied Environmental Technologies, Inc. P.O. Box 303 Carmi, IL 62821 (618) 382-8232 (618) 382-2462 FAX	Maier's Grocery Crossville, Illinois	
		Geological Cross-Section	
		North - South (B-2 to B-4)	7-12-10



Horizontal Scale: 1" = 20' Vertical Scale on Drawing	Applied Environmental Technologies, Inc. P.O. Box 303 Carmi, IL 62821 (618) 382-8232 (618) 382-2462 FAX		Maier's Grocery Crossville, Illinois	
	Geological Cross-Section With Sample Locations			
	East - West (B-3 to B-1)			7-12-10

Exhibit B

Maier's Grocery
 Stage 1 Sampling Event
 Analytical Summary Table
 6/21/10

Results of Soil Sample Analyses BTEX, MTBE and Lead.

Analyte	Ingestion Objective	Inhalation Objective	Migration to GW Objective	No. 1 B-1 2.5 FT	No. 2 B-1 7.5 FT	No. 3 B-1 12 FT	No. 4 B-2 2.5 FT	No. 5 B-2 7.5 FT	No. 6 B-2 10 FT	No. 7 B-3 2.5 FT	No. 8 B-3 7.5 FT	No. 9 B-3 10 FT	No. 10 B-4 2.5 FT	No. 11 B-4 7.5 FT	No. 12 B-4 10 FT	No. 13 B-5 2.5 FT	No. 14 B-5 7.5 FT
Date Sampled				6/2/10	6/2/10	6/2/10	6/2/10	6/2/10	6/2/10	6/2/10	6/2/10	6/2/10	6/2/10	6/2/10	6/2/10	6/2/10	6/2/10
BTEX																	
Benzene	12	0.8	0.03	0.0029	0.0069	0.0024	<0.00042	0.12	0.0016	0.0020	0.0060	0.0035	<0.00042	0.0018	0.0016	<0.00042	0.0029
Toluene	16,000	650	12	0.0046	0.015	0.0057	<0.00033	0.0075	0.0018	0.00043	0.00057	0.0012	<0.00033	0.0042	0.0037	<0.00033	0.0065
Ethylbenzene	7,800	400	13	0.0012	0.0055	0.0019	<0.00032	0.022	0.00048	0.00050	0.0047	0.0026	<0.00032	0.0015	0.0014	<0.00032	0.0031
Xylenes (Total)	160,000	410	150	0.0024	0.012	0.0031	<0.00046	0.044	0.0011	0.0015	0.0077	0.0048	<0.00046	0.0031	0.0026	<0.00046	0.0065
MTBE	780	8.800	0.32	<0.00036	<0.00036	<0.00036	<0.00036	<0.00036	0.0021	0.0037	0.0020	<0.00036	<0.00036	<0.00036	<0.00036	<0.00036	0.00064
TCLP Extraction Lead			0.0075	<0.0075	<0.0075	<0.0075	<0.0075	<0.0075	<0.0075	<0.0075	<0.0075	<0.0075	<0.0075	<0.0075	0.018	<0.0075	<0.0075
Total Organic Carbon				1700													

IEPA TACO Tier I Soil Remediation Objectives for Residential Properties. All results given in mg / kg.

(k) A preliminary remediation goal of 400 mg/kg has been set for lead based on Revised Interim Soil Lead Guidance for CERCLA sites and RCRA Corrective Action Facilities, OSWER Directive #9355.4-12.



12065 Lebanon Rd.
Mt. Juliet, TN 37122
(615) 758-5858
1-800-767-5859
Fax (615) 758-5859
Tax I.D. 62-0814289
Est. 1970

Mr. Bryan Williams
Applied Environmental Technologies, Inc.
PO Box 303
Carmi, IL 62821

Report Summary

Tuesday June 15, 2010

Report Number: L462590

Samples Received: 06/04/10

Client Project: MAIERS

Description: Maiers Crossville

The analytical results in this report are based upon information supplied by you, the client, and are for your exclusive use. If you have any questions regarding this data package, please do not hesitate to call.

Entire Report Reviewed By:

Craig Cothron , ESC Representative

Laboratory Certification Numbers

AZLA - 1461-01, AIHA - 100789, AL - 40660, CA - I-2327, CT - PH-0197, FL - E87487
GA - 923, IN - C-TN-01, KY - 90010, KYUST - 0016, NC - ENV375/DW21704, ND - R-140
NJ - TN002, NJ NELAP - TN002, SC - 84004, TN - 2006, VA - 00109, WV - 233
AZ - 0612, MN - 047-999-395, NY - 11742, WI - 998093910, NV - TN000032008A

Accreditation is only applicable to the test methods specified on each scope of accreditation held by ESC Lab Sciences.

Note: The use of the preparatory EPA Method 3511 is not approved or endorsed by the CA ELAP.

This report may not be reproduced, except in full, without written approval from ESC Lab Sciences. Where applicable, sampling conducted by ESC is performed per guidance provided in laboratory standard operating procedures: 060302, 060303, and 060304.



12065 Lebanon Rd.
 Mt. Juliet, TN 37122
 (615) 758-5858
 1-800-767-5859
 Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Mr. Bryan Williams
 Applied Environmental Technologies,
 PO Box 303
 Carmi, IL 62821

June 15, 2010

Date Received : June 04, 2010
 Description : Maiers Crossville
 Sample ID : NO 1 2.5 FT
 Collected By : Matt Garner
 Collection Date : 06/02/10 09:00

ESC Sample # : L462590-01

Site ID :

Project : MAIERS

Parameter	Result	Det. Limit	Units	Limit	Method	Date/Time	By	Dil
TCLP Extraction	-				1311	06/08/10 0718	LJN	1
Lead	BDL	0.0075	mg/l	5.0	6010B	06/10/10 2042	ALT	1

BDL - Below Detection Limit
 Det. Limit - Estimated Quantitation Limit(EQL)
 Limit - Maximum Contaminant Level as established by the US EPA

Note:
 The reported analytical results relate only to the sample submitted.
 This report shall not be reproduced, except in full, without the written approval from ESC.

Reported: 06/15/10 14:17 Printed: 06/15/10 14:17



12065 Lebanon Rd.
Mt. Juliet, TN 37122
(615) 758-5858
1-800-767-5859
Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Mr. Bryan Williams
Applied Environmental Technologies,
PO Box 303
Carmi, IL 62821

June 15, 2010

Date Received : June 04, 2010
Description : Maiers Crossville
Sample ID : NO 2 7.5 FT
Collected By : Matt Garner
Collection Date : 06/02/10 09:15

ESC Sample # : L462590-02

Site ID :

Project : MAIERS

Parameter	Result	Det. Limit	Units	Limit	Method	Date/Time	By	Dil
TCLP Extraction	-				1311	06/08/10 0718	LJN	1
Lead	BDL	0.0075	mg/l	5.0	6010B	06/10/10 2039	ALT	1

BDL - Below Detection Limit
Det. Limit - Estimated Quantitation Limit(EQL)
Limit - Maximum Contaminant Level as established by the US EPA

Note:

The reported analytical results relate only to the sample submitted.
This report shall not be reproduced, except in full, without the written approval from ESC.

Reported: 06/15/10 14:17 Printed: 06/15/10 14:17



YOUR LAB OF CHOICE

12065 Lebanon Rd.
Mt. Juliet, TN 37122
(615) 758-5858
1-800-767-5859
Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Mr. Bryan Williams
Applied Environmental Technologies,
PO Box 303
Carmi, IL 62821

June 15, 2010

Date Received : June 04, 2010
Description : Maiers Crossville
Sample ID : NO 3 12 FT
Collected By : Matt Garner
Collection Date : 06/02/10 09:35

ESC Sample # : L462590-03

Site ID :

Project : MAIERS

Parameter	Result	Det. Limit	Units	Limit	Method	Date/Time	By	Dil
TCLP Extraction	-				1311	06/08/10 0718	LJN	1
Lead	BDL	0.0075	mg/l	5.0	6010B	06/10/10 2035	ALT	1

BDL - Below Detection Limit
Det. Limit - Estimated Quantitation Limit(EQL)
Limit - Maximum Contaminant Level as established by the US EPA
Note:
The reported analytical results relate only to the sample submitted.
This report shall not be reproduced, except in full, without the written approval from ESC.

Reported: 06/15/10 14:17 Printed: 06/15/10 14:17



12065 Lebanon Rd.
 Mt. Juliet, TN 37122
 (615) 758-5858
 1-800-767-5859
 Fax (615) 758-5859
 Tax I.D. 62-0814289
 Est. 1970

REPORT OF ANALYSIS

Mr. Bryan Williams
 Applied Environmental Technologies,
 PO Box 303
 Carmi, IL 62821

June 15, 2010

Date Received : June 04, 2010
 Description : Maiers Crossville
 Sample ID : NO 4 2.5 FT
 Collected By : Matt Garner
 Collection Date : 06/02/10 09:45

ESC Sample # : L462590-04

Site ID :

Project : MAIERS

Parameter	Result	Det. Limit	Units	Limit	Method	Date/Time	By	Dil
TCLP Extraction	-				1311	06/08/10 0718	LJN	1
Lead	BDL	0.0075	mg/l	5.0	6010B	06/10/10 2032	ALT	1

BDL - Below Detection Limit
 Det. Limit - Estimated Quantitation Limit(EQL)
 Limit - Maximum Contaminant Level as established by the US EPA
 Note:
 The reported analytical results relate only to the sample submitted.
 This report shall not be reproduced, except in full, without the written approval from ESC.
 Reported: 06/15/10 14:17 Printed: 06/15/10 14:17



12065 Lebanon Rd.
Mt. Juliet, TN 37122
(615) 758-5858
1-800-767-5859
Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Mr. Bryan Williams
Applied Environmental Technologies,
PO Box 303
Carmi, IL 62821

June 15, 2010

Date Received : June 04, 2010
Description : Maiers Crossville
Sample ID : NO 5 7.5 FT
Collected By : Matt Garner
Collection Date : 06/02/10 09:57

ESC Sample # : L462590-05

Site ID :

Project : MAIERS

Parameter	Result	Det. Limit	Units	Limit	Method	Date/Time	By	Dil
TCLP Extraction	-				1311	06/08/10 0718	LJN	1
Lead	BDL	0.0075	mg/l	5.0	6010B	06/10/10 2029	ALT	1

BDL - Below Detection Limit

Det. Limit - Estimated Quantitation Limit(EQL)

Limit - Maximum Contaminant Level as established by the US EPA

Note:

The reported analytical results relate only to the sample submitted.

This report shall not be reproduced, except in full, without the written approval from ESC.

Reported: 06/15/10 14:17 Printed: 06/15/10 14:17



12065 Lebanon Rd.
Mt. Juliet, TN 37122
(615) 758-5858
1-800-767-5859
Fax (615) 758-5859

Tax I.D. 62-0814289
Est. 1970

REPORT OF ANALYSIS

Mr. Bryan Williams
Applied Environmental Technologies,
PO Box 303
Carmi, IL 62821

June 15, 2010

Date Received : June 04, 2010
Description : Maiers Crossville
Sample ID : NO 6 10 FT
Collected By : Matt Garner
Collection Date : 06/02/10 10:05

ESC Sample # : L462590-06
Site ID :
Project : MAIERS

Parameter	Result	Det. Limit	Units	Limit	Method	Date/Time	By	Dil
TCLP Extraction	-				1311	06/08/10 0718	LJN	1
Lead	BDL	0.0075	mg/l	5.0	6010B	06/10/10 2026	ALT	1

BDL - Below Detection Limit
Det. Limit - Estimated Quantitation Limit(EQL)
Limit - Maximum Contaminant Level as established by the US EPA
Note:
The reported analytical results relate only to the sample submitted.
This report shall not be reproduced, except in full, without the written approval from ESC.
Reported: 06/15/10 14:17 Printed: 06/15/10 14:17



12065 Lebanon Rd.
Mt. Juliet, TN 37122
(615) 758-5858
1-800-767-5859
Fax (615) 758-5859
Tax I.D. 62-0814289
Est. 1970

REPORT OF ANALYSIS

Mr. Bryan Williams
Applied Environmental Technologies,
PO Box 303
Carmi, IL 62821

June 15, 2010

Date Received : June 04, 2010
Description : Maiers Crossville
Sample ID : NO 7 2.5 FT
Collected By : Matt Garner
Collection Date : 06/02/10 10:20

ESC Sample # : L462590-07
Site ID :
Project : MAIERS

Parameter	Result	Det. Limit	Units	Limit	Method	Date/Time	By	Dil
TCLP Extraction	-				1311	06/08/10 0718	LJN	1
Lead	BDL	0.0075	mg/l	5.0	6010B	06/10/10 2022	ALT	1

BDL - Below Detection Limit
Det. Limit - Estimated Quantitation Limit(EQL)
Limit - Maximum Contaminant Level as established by the US EPA
Note:
The reported analytical results relate only to the sample submitted.
This report shall not be reproduced, except in full, without the written approval from ESC.
Reported: 06/15/10 14:17 Printed: 06/15/10 14:17



YOUR LAB OF CHOICE

12065 Lebanon Rd.
Mt. Juliet, TN 37122
(615) 758-5858
1-800-767-5859
Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Mr. Bryan Williams
Applied Environmental Technologies,
PO Box 303
Carmi, IL 62821

June 15, 2010

Date Received : June 04, 2010
Description : Maiers Crossville
Sample ID : NO 8 7.5 FT
Collected By : Matt Garner
Collection Date : 06/02/10 10:30

ESC Sample # : L462590-08

Site ID :

Project : MAIERS

Parameter	Result	Det. Limit	Units	Limit	Method	Date/Time	By	Dil
TCLP Extraction	-				1311	06/08/10 0718	LJN	1
Lead	BDL	0.0075	mg/l	5.0	6010B	06/10/10 2019	ALT	1

BDL - Below Detection Limit
Det. Limit - Estimated Quantitation Limit(EQL)
Limit - Maximum Contaminant Level as established by the US EPA
Note:
The reported analytical results relate only to the sample submitted.
This report shall not be reproduced, except in full, without the written approval from ESC.

Reported: 06/15/10 14:17 Printed: 06/15/10 14:17



YOUR LAB OF CHOICE

12065 Lebanon Rd.
Mt. Juliet, TN 37122
(615) 758-5858
1-800-767-5859
Fax (615) 758-5859
Tax I.D. 62-0814289
Est. 1970

REPORT OF ANALYSIS

Mr. Bryan Williams
Applied Environmental Technologies,
PO Box 303
Carmi, IL 62821

June 15, 2010

Date Received : June 04, 2010
Description : Maiers Crossville
Sample ID : NO 9 10 FT
Collected By : Matt Garner
Collection Date : 06/02/10 10:50

ESC Sample # : L462590-09
Site ID :
Project : MAIERS

Table with 9 columns: Parameter, Result, Det. Limit, Units, Limit, Method, Date/Time, By, Dil. Rows include TCLP Extraction and Lead.

BDL - Below Detection Limit
Det. Limit - Estimated Quantitation Limit(EQL)
Limit - Maximum Contaminant Level as established by the US EPA
Note:
The reported analytical results relate only to the sample submitted.
This report shall not be reproduced, except in full, without the written approval from ESC.
Reported: 06/15/10 14:17 Printed: 06/15/10 14:17



12065 Lebanon Rd.
Mt. Juliet, TN 37122
(615) 758-5858
1-800-767-5859
Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Mr. Bryan Williams
Applied Environmental Technologies,
PO Box 303
Carmi, IL 62821

June 15, 2010

Date Received : June 04, 2010
Description : Maiers Crossville
Sample ID : NO 10 2.5 FT
Collected By : Matt Garner
Collection Date : 06/02/10 13:00

ESC Sample # : L462590-10

Site ID :

Project : MAIERS

Parameter	Result	Det. Limit	Units	Limit	Method	Date/Time	By	Dil
TCLP Extraction	-				1311	06/08/10 0718	LJN	1
Lead	BDL	0.0075	mg/l	5.0	6010B	06/10/10 2001	ALT	1

BDL - Below Detection Limit

Det. Limit - Estimated Quantitation Limit(EQL)

Limit - Maximum Contaminant Level as established by the US EPA

Note:

The reported analytical results relate only to the sample submitted.

This report shall not be reproduced, except in full, without the written approval from ESC.

Reported: 06/15/10 14:17 Printed: 06/15/10 14:17



12065 Lebanon Rd.
Mt. Juliet, TN 37122
(615) 758-5858
1-800-767-5859
Fax (615) 758-5859
Tax I.D. 62-0814289
Est. 1970

REPORT OF ANALYSIS

Mr. Bryan Williams
Applied Environmental Technologies,
PO Box 303
Carmi, IL 62821

June 15, 2010

Date Received : June 04, 2010
Description : Maiers Crossville
Sample ID : NO 11 7.5 FT
Collected By : Matt Garner
Collection Date : 06/02/10 13:15

ESC Sample # : L462590-11
Site ID :
Project : MAIERS

Parameter	Result	Det. Limit	Units	Limit	Method	Date/Time	By	Dil
TCLP Extraction	-				1311	06/08/10 0718	LJN	1
Lead	BDL	0.0075	mg/l	5.0	6010B	06/10/10 1958	ALT	1

BDL - Below Detection Limit
Det. Limit - Estimated Quantitation Limit(EQL)
Limit - Maximum Contaminant Level as established by the US EPA
Note:
The reported analytical results relate only to the sample submitted.
This report shall not be reproduced, except in full, without the written approval from ESC.
Reported: 06/15/10 14:17 Printed: 06/15/10 14:17



12065 Lebanon Rd.
 Mt. Juliet, TN 37122
 (615) 758-5858
 1-800-767-5859
 Fax (615) 758-5859
 Tax I.D. 62-0814289
 Est. 1970

REPORT OF ANALYSIS

Mr. Bryan Williams
 Applied Environmental Technologies,
 PO Box 303
 Carmi, IL 62821

June 15, 2010

Date Received : June 04, 2010
 Description : Maiers Crossville
 Sample ID : NO 12 10 FT
 Collected By : Matt Garner
 Collection Date : 06/02/10 13:30

ESC Sample # : L462590-12
 Site ID :
 Project : MAIERS

Parameter	Result	Det. Limit	Units	Limit	Method	Date/Time	By	Dil
TCLP Extraction	-				1311	06/08/10 0718	LJN	1
Lead	0.018	0.0075	mg/l	5.0	6010B	06/10/10 1955	ALT	1

BDL - Below Detection Limit
 Det. Limit - Estimated Quantitation Limit(EQL)
 Limit - Maximum Contaminant Level as established by the US EPA
 Note:
 The reported analytical results relate only to the sample submitted.
 This report shall not be reproduced, except in full, without the written approval from ESC.
 Reported: 06/15/10 14:17 Printed: 06/15/10 14:17



YOUR LAB OF CHOICE

12065 Lebanon Rd.
Mt. Juliet, TN 37122
(615) 758-5858
1-800-767-5859
Fax (615) 758-5859

Tax I.D. 62-0814289
Est. 1970

REPORT OF ANALYSIS

Mr. Bryan Williams
Applied Environmental Technologies,
PO Box 303
Carmi, IL 62821

June 15, 2010

Date Received : June 04, 2010
Description : Maiers Crossville
Sample ID : NO 13 2.5 FT
Collected By : Matt Garner
Collection Date : 06/02/10 14:00

ESC Sample # : L462590-13
Site ID :
Project : MAIERS

Parameter	Result	Det. Limit	Units	Limit	Method	Date/Time	By	Dil
TCLP Extraction	-				1311	06/08/10 0718	LJN	1
Lead	BDL	0.0075	mg/l	5.0	6010B	06/10/10 1951	ALT	1

BDL - Below Detection Limit
Det. Limit - Estimated Quantitation Limit (EQL)
Limit - Maximum Contaminant Level as established by the US EPA

Note:
The reported analytical results relate only to the sample submitted.
This report shall not be reproduced, except in full, without the written approval from ESC.

Reported: 06/15/10 14:17 Printed: 06/15/10 14:17



12065 Lebanon Rd.
 Mt. Juliet, TN 37122
 (615) 758-5858
 1-800-767-5859
 Fax (615) 758-5859

Tax I.D. 62-0814289
 Est. 1970

REPORT OF ANALYSIS

Mr. Bryan Williams
 Applied Environmental Technologies,
 PO Box 303
 Carmi, IL 62821

June 15, 2010

Date Received : June 04, 2010
 Description : Maiers Crossville
 Sample ID : NO 14 7.5 FT
 Collected By : Matt Garner
 Collection Date : 06/02/10 14:15

ESC Sample # : L462590-14

Site ID :
 Project : MAIERS

Parameter	Result	Det. Limit	Units	Limit	Method	Date/Time	By	Dil
TCLP Extraction	-				1311	06/08/10 0718	LJN	1
Lead	BDL	0.0075	mg/l	5.0	6010B	06/10/10 1913	ALT	1

BDL - Below Detection Limit
 Det. Limit - Estimated Quantitation Limit(EQL)
 Limit - Maximum Contaminant Level as established by the US EPA
 Note:
 The reported analytical results relate only to the sample submitted.
 This report shall not be reproduced, except in full, without the written approval from ESC.
 Reported: 06/15/10 14:17 Printed: 06/15/10 14:17



12065 Lebanon Rd.
Mt. Juliet, TN 37122
(615) 758-5858
1-800-767-5859
Fax (615) 758-5859
Tax I.D. 62-0614289
Est. 1970

REPORT OF ANALYSIS

Mr. Bryan Williams
Applied Environmental Technologies,
PO Box 303
Carmi, IL 62821

June 15, 2010

Date Received : June 04, 2010
Description : Maiers Crossville
Sample ID : NO 1 2.5 FT
Collected By : Matt Garner
Collection Date : 06/02/10 09:00

ESC Sample # : L462590-15
Site ID :
Project # : MAIERS

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
TOC (Total Organic Carbon)	1700	10.	mg/kg	USDA LOI	06/11/10	1

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
Note:
The reported analytical results relate only to the sample submitted.
This report shall not be reproduced, except in full, without the written approval from ESC.
Reported: 06/15/10 14:17 Printed: 06/15/10 14:17



12065 Lebanon Rd.
 Mt. Juliet, TN 37122
 (615) 758-5858
 1-800-767-5859
 Fax (615) 758-5859
 Tax I.D. 62-0814289
 Est. 1970

REPORT OF ANALYSIS

Mr. Bryan Williams
 Applied Environmental Technologies,
 PO Box 303
 Carmi, IL 62821

June 15, 2010

Date Received : June 04, 2010
 Description : Maiers Crossville
 Sample ID : NO 1 2.5 FT
 Collected By : Matt Garner
 Collection Date : 06/02/10 09:00

ESC Sample # : L462590-16
 Site ID :
 Project # : MAIERS

Parameter	Dry Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
Total Solids	79.0			%		2540G	06/09/10	1
Benzene	0.0029	0.00042	0.0013	mg/kg		8260B	06/12/10	1
Toluene	0.0046	0.00033	0.0063	mg/kg	J	8260B	06/12/10	1
Ethylbenzene	0.0012	0.00032	0.0013	mg/kg	J	8260B	06/12/10	1
Total Xylenes	0.0024	0.00046	0.0038	mg/kg	J	8260B	06/12/10	1
Methyl tert-butyl ether	U	0.00036	0.0013	mg/kg		8260B	06/12/10	1
Surrogate Recovery								
Toluene-d8	103.			% Rec.		8260B	06/12/10	1
Dibromofluoromethane	102.			% Rec.		8260B	06/12/10	1
4-Bromofluorobenzene	82.7			% Rec.		8260B	06/12/10	1

Results listed are dry weight basis.
 U = ND (Not Detected)
 MDL = Minimum Detection Limit = LOD
 RDL = Reported Detection Limit = LOQ = PQL = EQL
 Note:

This report shall not be reproduced, except in full, without the written approval from ESC.
 The reported analytical results relate only to the sample submitted
 Reported: 06/15/10 14:17 Printed: 06/15/10 14:17



12065 Lebanon Rd.
 Mt. Juliet, TN 37122
 (615) 758-5858
 1-800-767-5859
 Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

June 15, 2010

Mr. Bryan Williams
 Applied Environmental Technologies,
 PO Box 303
 Carmi, IL 62821

Date Received : June 04, 2010
 Description : Maiers Crossville
 Sample ID : NO 2 7.5 FT
 Collected By : Matt Garner
 Collection Date : 06/02/10 09:15

ESC Sample # : L462590-17

Site ID :

Project # : MAIERS

Parameter	Dry Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
Total Solids	80.0			%		2540G	06/09/10	1
Benzene	0.0069	0.00042	0.0012	mg/kg		8260B	06/12/10	1
Toluene	0.015	0.00033	0.0062	mg/kg		8260B	06/12/10	1
Ethylbenzene	0.0055	0.00032	0.0012	mg/kg		8260B	06/12/10	1
Total Xylenes	0.012	0.00046	0.0038	mg/kg		8260B	06/12/10	1
Methyl tert-butyl ether	U	0.00036	0.0012	mg/kg		8260B	06/12/10	1
Surrogate Recovery								
Toluene-d8	103.			%	Rec.	8260B	06/12/10	1
Dibromofluoromethane	100.			%	Rec.	8260B	06/12/10	1
4-Bromofluorobenzene	94.1			%	Rec.	8260B	06/12/10	1

Results listed are dry weight basis.

U = ND (Not Detected)

MDL = Minimum Detection Limit = LOD

RDL = Reported Detection Limit = LOQ = PQL = EQL

Note:

This report shall not be reproduced, except in full, without the written approval from ESC.

The reported analytical results relate only to the sample submitted

Reported: 06/15/10 14:17 Printed: 06/15/10 14:17



12065 Lebanon Rd.
 Mt. Juliet, TN 37122
 (615) 758-5858
 1-800-767-5859
 Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

June 15, 2010

Mr. Bryan Williams
 Applied Environmental Technologies,
 PO Box 303
 Carmi, IL 62821

Date Received : June 04, 2010
 Description : Maiers Crossville
 Sample ID : NO 3 12 FT
 Collected By : Matt Garner
 Collection Date : 06/02/10 09:35

ESC Sample # : L462590-18

Site ID :

Project # : MAIERS

Parameter	Dry Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
Total Solids	80.3			%		2540G	06/09/10	1
Benzene	0.0024	0.00042	0.0012	mg/kg		8260B	06/13/10	1
Toluene	0.0057	0.00033	0.0062	mg/kg	J	8260B	06/13/10	1
Ethylbenzene	0.0019	0.00032	0.0012	mg/kg		8260B	06/13/10	1
Total Xylenes	0.0031	0.00046	0.0037	mg/kg	J	8260B	06/13/10	1
Methyl tert-butyl ether	U	0.00036	0.0012	mg/kg		8260B	06/13/10	1
Surrogate Recovery								
Toluene-d8	104.			%	Rec.	8260B	06/13/10	1
Dibromofluoromethane	124.			%	Rec.	8260B	06/13/10	1
4-Bromofluorobenzene	100.			%	Rec.	8260B	06/13/10	1

Results listed are dry weight basis.
 U = ND (Not Detected)
 MDL = Minimum Detection Limit = LOD
 RDL = Reported Detection Limit = LOQ = PQL = EQL

Note:
 This report shall not be reproduced, except in full, without the written approval from ESC.
 The reported analytical results relate only to the sample submitted
 Reported: 06/15/10 14:17 Printed: 06/15/10 14:17



12065 Lebanon Rd.
Mt. Juliet, TN 37122
(615) 758-5858
1-800-767-5859
Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

June 15, 2010

Mr. Bryan Williams
Applied Environmental Technologies,
PO Box 303
Carmi, IL 62821

Date Received : June 04, 2010
Description : Maiers Crossville
Sample ID : NO 4 2.5 FT
Collected By : Matt Garner
Collection Date : 06/02/10 09:45

ESC Sample # : I462590-19

Site ID :

Project # : MAIERS

Parameter	Dry Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
Total Solids	79.7			%		2540G	06/09/10	1
Benzene	U	0.00042	0.0012	mg/kg		8260B	06/13/10	1
Toluene	U	0.00033	0.0063	mg/kg		8260B	06/13/10	1
Ethylbenzene	U	0.00032	0.0012	mg/kg		8260B	06/13/10	1
Total Xylenes	U	0.00046	0.0038	mg/kg		8260B	06/13/10	1
Methyl tert-butyl ether	U	0.00036	0.0012	mg/kg		8260B	06/13/10	1
Surrogate Recovery								
Toluene-d8	104.			%	Rec.	8260B	06/13/10	1
Dibromofluoromethane	117.			%	Rec.	8260B	06/13/10	1
4-Bromofluorobenzene	95.7			%	Rec.	8260B	06/13/10	1

Results listed are dry weight basis.

U = ND (Not Detected)

MDL = Minimum Detection Limit = LOD

RDL = Reported Detection Limit = LOQ = PQL = EQL

Note:

This report shall not be reproduced, except in full, without the written approval from ESC.

The reported analytical results relate only to the sample submitted

Reported: 06/15/10 14:17 Printed: 06/15/10 14:17



12065 Lebanon Rd.
 Mt. Juliet, TN 37122
 (615) 758-5858
 1-800-767-5859
 Fax (615) 758-5859
 Tax I.D. 62-0814289
 Est. 1970

REPORT OF ANALYSIS

Mr. Bryan Williams
 Applied Environmental Technologies,
 PO Box 303
 Carmi, IL 62821

June 15, 2010

Date Received : June 04, 2010
 Description : Maiers Crossville
 Sample ID : NO 5 7.5 FT
 Collected By : Matt Garner
 Collection Date : 06/02/10 09:57

ESC Sample # : L462590-20
 Site ID :
 Project # : MAIERS

Parameter	Dry Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
Total Solids	77.5			%		2540G	06/09/10	1
Benzene	0.12	0.00042	0.0013	mg/kg		8260B	06/13/10	1
Toluene	0.0075	0.00033	0.0064	mg/kg		8260B	06/13/10	1
Ethylbenzene	0.022	0.00032	0.0013	mg/kg		8260B	06/13/10	1
Total Xylenes	0.044	0.00046	0.0039	mg/kg		8260B	06/13/10	1
Methyl tert-butyl ether	U	0.00036	0.0013	mg/kg		8260B	06/13/10	1
Surrogate Recovery								
Toluene-d8	110.			%	Rec.	8260B	06/13/10	1
Dibromofluoromethane	129.			%	Rec.	8260B	06/13/10	1
4-Bromofluorobenzene	93.9			%	Rec.	8260B	06/13/10	1

Results listed are dry weight basis.

U = ND (Not Detected)

MDL = Minimum Detection Limit = LOD

RDL = Reported Detection Limit = LOQ = PQL = EQL

Note:

This report shall not be reproduced, except in full, without the written approval from ESC.

The reported analytical results relate only to the sample submitted

Reported: 06/15/10 14:17 Printed: 06/15/10 14:17



12065 Lebanon Rd.
 Mt. Juliet, TN 37122
 (615) 758-5858
 1-800-767-5859
 Fax (615) 758-5859
 Tax I.D. 62-0814289
 Est. 1970

REPORT OF ANALYSIS

Mr. Bryan Williams
 Applied Environmental Technologies,
 PO Box 303
 Carmi, IL 62821

June 15, 2010

Date Received : June 04, 2010
 Description : Maiers Crossville
 Sample ID : NO 6 10 FT
 Collected By : Matt Garner
 Collection Date : 06/02/10 10:05

ESC Sample # : L462590-21
 Site ID :
 Project # : MAIERS

Parameter	Dry Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
Total Solids	76.4			%		2540G	06/09/10	1
Benzene	0.0016	0.00042	0.0013	mg/kg		8260B	06/13/10	1
Toluene	0.0018	0.00033	0.0065	mg/kg	J	8260B	06/13/10	1
Ethylbenzene	0.00048	0.00032	0.0013	mg/kg	J	8260B	06/13/10	1
Total Xylenes	0.0011	0.00046	0.0039	mg/kg	J	8260B	06/13/10	1
Methyl tert-butyl ether	0.0021	0.00036	0.0013	mg/kg		8260B	06/13/10	1
Surrogate Recovery								
Toluene-d8	102.			% Rec.		8260B	06/13/10	1
Dibromofluoromethane	121.			% Rec.		8260B	06/13/10	1
4-Bromofluorobenzene	101.			% Rec.		8260B	06/13/10	1

Results listed are dry weight basis.
 U = ND (Not Detected)
 MDL = Minimum Detection Limit = LOD
 RDL = Reported Detection Limit = LOQ = PQL = EQL

Note:
 This report shall not be reproduced, except in full, without the written approval from ESC.
 The reported analytical results relate only to the sample submitted
 Reported: 06/15/10 14:17 Printed: 06/15/10 14:17



12065 Lebanon Rd.
 Mt. Juliet, TN 37122
 (615) 758-5858
 1-800-767-5859
 Fax (615) 758-5859
 Tax I.D. 62-0814289
 Est. 1970

REPORT OF ANALYSIS

Mr. Bryan Williams
 Applied Environmental Technologies,
 PO Box 303
 Carmi, IL 62821

June 15, 2010

Date Received : June 04, 2010
 Description : Maiers Crossville
 Sample ID : NO 7 2.5 FT
 Collected By : Matt Garner
 Collection Date : 06/02/10 10:20

ESC Sample # : L462590-22
 Site ID :
 Project # : MAIERS

Parameter	Dry Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
Total Solids	78.4			%		2540G	06/09/10	1
Benzene	0.0020	0.00042	0.0013	mg/kg		8260B	06/15/10	1
Toluene	0.00043	0.00033	0.0064	mg/kg	J	8260B	06/15/10	1
Ethylbenzene	0.00050	0.00032	0.0013	mg/kg	J	8260B	06/15/10	1
Total Xylenes	0.0015	0.00046	0.0038	mg/kg	J	8260B	06/15/10	1
Methyl tert-butyl ether	0.0037	0.00036	0.0013	mg/kg		8260B	06/15/10	1
Surrogate Recovery								
Toluene-d8	95.7			% Rec.		8260B	06/15/10	1
Dibromofluoromethane	108.			% Rec.		8260B	06/15/10	1
4-Bromofluorobenzene	85.6			% Rec.		8260B	06/15/10	1

Results listed are dry weight basis.
 U = ND (Not Detected)
 MDL = Minimum Detection Limit = LOD
 RDL = Reported Detection Limit = LOQ = PQL = EQL

Note:
 This report shall not be reproduced, except in full, without the written approval from ESC.
 The reported analytical results relate only to the sample submitted
 Reported: 06/15/10 14:17 Printed: 06/15/10 14:17



12065 Lebanon Rd.
 Mt. Juliet, TN 37122
 (615) 758-5858
 1-800-767-5859
 Fax (615) 758-5859

Tax I.D. 62-0814289
 Est. 1970

REPORT OF ANALYSIS

Mr. Bryan Williams
 Applied Environmental Technologies,
 PO Box 303
 Carmi, IL 62821

June 15, 2010

Date Received : June 04, 2010
 Description : Maiers Crossville
 Sample ID : NO 8 7.5 FT
 Collected By : Matt Garner
 Collection Date : 06/02/10 10:30

ESC Sample # : L462590-23

Site ID :

Project # : MAIERS

Parameter	Dry Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
Total Solids	78.3			%		2540G	06/09/10	1
Benzene	0.0060	0.00042	0.0013	mg/kg		8260B	06/14/10	1
Toluene	0.0057	0.00033	0.0064	mg/kg	J	8260B	06/14/10	1
Ethylbenzene	0.0047	0.00032	0.0013	mg/kg		8260B	06/14/10	1
Total Xylenes	0.0077	0.00046	0.0038	mg/kg		8260B	06/14/10	1
Methyl tert-butyl ether	0.0020	0.00036	0.0013	mg/kg		8260B	06/14/10	1
Surrogate Recovery								
Toluene-d8	102.			%	Rec.	8260B	06/14/10	1
Dibromofluoromethane	105.			%	Rec.	8260B	06/14/10	1
4-Bromofluorobenzene	103.			%	Rec.	8260B	06/14/10	1

Results listed are dry weight basis.
 U = ND (Not Detected)
 MDL = Minimum Detection Limit = LOD
 RDL = Reported Detection Limit = LOQ = PQL = EQL

Note:
 This report shall not be reproduced, except in full, without the written approval from ESC.
 The reported analytical results relate only to the sample submitted
 Reported: 06/15/10 14:17 Printed: 06/15/10 14:17



12065 Lebanon Rd.
 Mt. Juliet, TN 37122
 (615) 758-5858
 1-800-767-5859
 Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

June 15, 2010

Mr. Bryan Williams
 Applied Environmental Technologies,
 PO Box 303
 Carmi, IL 62821

Date Received : June 04, 2010
 Description : Maiers Crossville
 Sample ID : NO 9 10 FT
 Collected By : Matt Garner
 Collection Date : 06/02/10 10:50

ESC Sample # : L462590-24

Site ID :

Project # : MAIERS

Parameter	Dry Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
Total Solids	79.2			%		2540G	06/09/10	1
Benzene	0.0035	0.00042	0.0013	mg/kg		8260B	06/13/10	1
Toluene	0.0012	0.00033	0.0063	mg/kg	J	8260B	06/13/10	1
Ethylbenzene	0.0026	0.00032	0.0013	mg/kg		8260B	06/13/10	1
Total Xylenes	0.0048	0.00046	0.0038	mg/kg		8260B	06/13/10	1
Methyl tert-butyl ether	U	0.00036	0.0013	mg/kg		8260B	06/13/10	1
Surrogate Recovery								
Toluene-d8	104.			% Rec.		8260B	06/13/10	1
Dibromofluoromethane	112.			% Rec.		8260B	06/13/10	1
4-Bromofluorobenzene	88.3			% Rec.		8260B	06/13/10	1

Results listed are dry weight basis.

U = ND (Not Detected)

MDL = Minimum Detection Limit = LOD

RDL = Reported Detection Limit = LOQ = PQL = EQL

Note:

This report shall not be reproduced, except in full, without the written approval from ESC.

The reported analytical results relate only to the sample submitted

Reported: 06/15/10 14:17 Printed: 06/15/10 14:17



12065 Lebanon Rd.
 Mt. Juliet, TN 37122
 (615) 758-5858
 1-800-767-5859
 Fax (615) 758-5859
 Tax I.D. 62-0814289
 Est. 1970

REPORT OF ANALYSIS

Mr. Bryan Williams
 Applied Environmental Technologies,
 PO Box 303
 Carmi, IL 62821

June 15, 2010

Date Received : June 04, 2010
 Description : Maiers Crossville
 Sample ID : NO 10 2.5 FT
 Collected By : Matt Garner
 Collection Date : 06/02/10 13:00

ESC Sample # : L462590-25
 Site ID :
 Project # : MAIERS

Parameter	Dry Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
Total Solids	77.7			%		2540G	06/09/10	1
Benzene	U	0.00042	0.0013	mg/kg		8260B	06/13/10	1
Toluene	U	0.00033	0.0064	mg/kg		8260B	06/13/10	1
Ethylbenzene	U	0.00032	0.0013	mg/kg		8260B	06/13/10	1
Total Xylenes	U	0.00046	0.0039	mg/kg		8260B	06/13/10	1
Methyl tert-butyl ether	U	0.00036	0.0013	mg/kg		8260B	06/13/10	1
Surrogate Recovery								
Toluene-d8	104.			%	Rec.	8260B	06/13/10	1
Dibromofluoromethane	109.			%	Rec.	8260B	06/13/10	1
4-Bromofluorobenzene	92.6			%	Rec.	8260B	06/13/10	1

Results listed are dry weight basis.
 U = ND (Not Detected)
 MDL = Minimum Detection Limit = LOD
 RDL = Reported Detection Limit = LOQ = PQL = EQL
 Note:

This report shall not be reproduced, except in full, without the written approval from ESC.
 The reported analytical results relate only to the sample submitted
 Reported: 06/15/10 14:17 Printed: 06/15/10 14:17



12065 Lebanon Rd.
 Mt. Juliet, TN 37122
 (615) 758-5858
 1-800-767-5859
 Fax (615) 758-5859
 Tax I.D. 62-0814289
 Est. 1970

REPORT OF ANALYSIS

June 15, 2010

Mr. Bryan Williams
 Applied Environmental Technologies,
 PO Box 303
 Carmi, IL 62821

Date Received : June 04, 2010
 Description : Maiers Crossville
 Sample ID : NO 11 7.5 FT
 Collected By : Matt Garner
 Collection Date : 06/02/10 13:15

ESC Sample # : L462590-26
 Site ID :
 Project # : MAIERS

Parameter	Dry Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
Total Solids	78.2			%		2540G	06/09/10	1
Benzene	0.0018	0.00042	0.0013	mg/kg		8260B	06/13/10	1
Toluene	0.0042	0.00033	0.0064	mg/kg	J	8260B	06/13/10	1
Ethylbenzene	0.0015	0.00032	0.0013	mg/kg		8260B	06/13/10	1
Total Xylenes	0.0031	0.00046	0.0038	mg/kg	J	8260B	06/13/10	1
Methyl tert-butyl ether	U	0.00036	0.0013	mg/kg		8260B	06/13/10	1
Surrogate Recovery								
Toluene-d8	102.			%	Rec.	8260B	06/13/10	1
Dibromofluoromethane	116.			%	Rec.	8260B	06/13/10	1
4-Bromofluorobenzene	91.6			%	Rec.	8260B	06/13/10	1

Results listed are dry weight basis.
 U = ND (Not Detected)
 MDL = Minimum Detection Limit = LOD
 RDL = Reported Detection Limit = LOQ = PQL = EQL

Note:
 This report shall not be reproduced, except in full, without the written approval from ESC.
 The reported analytical results relate only to the sample submitted
 Reported: 06/15/10 14:17 Printed: 06/15/10 14:17



12065 Lebanon Rd.
 Mt. Juliet, TN 37122
 (615) 758-5858
 1-800-767-5859
 Fax (615) 758-5859
 Tax I.D. 62-0814289
 Est. 1970

REPORT OF ANALYSIS

Mr. Bryan Williams
 Applied Environmental Technologies,
 PO Box 303
 Carmi, IL 62821

June 15, 2010

Date Received : June 04, 2010
 Description : Maiers Crossville
 Sample ID : NO 12 10 FT
 Collected By : Matt Garner
 Collection Date : 06/02/10 13:30

ESC Sample # : L462590-27

Site ID :

Project # : MAIERS

Parameter	Dry Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
Total Solids	80.1			%		2540G	06/09/10	1
Benzene	0.0016	0.00042	0.0012	mg/kg		8260B	06/13/10	1
Toluene	0.0037	0.00033	0.0062	mg/kg	J	8260B	06/13/10	1
Ethylbenzene	0.0014	0.00032	0.0012	mg/kg		8260B	06/13/10	1
Total Xylenes	0.0026	0.00046	0.0037	mg/kg	J	8260B	06/13/10	1
Methyl tert-butyl ether	U	0.00036	0.0012	mg/kg		8260B	06/13/10	1
Surrogate Recovery								
Toluene-d8	102.			% Rec.		8260B	06/13/10	1
Dibromofluoromethane	114.			% Rec.		8260B	06/13/10	1
4-Bromofluorobenzene	98.7			% Rec.		8260B	06/13/10	1

Results listed are dry weight basis.
 U = ND (Not Detected)
 MDL = Minimum Detection Limit = LOD
 RDL = Reported Detection Limit = LOQ = PQL = EQL

Note:
 This report shall not be reproduced, except in full, without the written approval from ESC.
 The reported analytical results relate only to the sample submitted
 Reported: 06/15/10 14:17 Printed: 06/15/10 14:17



12065 Lebanon Rd.
 Mt. Juliet, TN 37122
 (615) 758-5858
 1-800-767-5859
 Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

June 15, 2010

Mr. Bryan Williams
 Applied Environmental Technologies,
 PO Box 303
 Carmi, IL 62821

Date Received : June 04, 2010
 Description : Maiers Crossville
 Sample ID : NO 13 2.5 FT
 Collected By : Matt Garner
 Collection Date : 06/02/10 14:00

ESC Sample # : L462590-28
 Site ID :
 Project # : MAIERS

Parameter	Dry Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
Total Solids	78.4			%		2540G	06/09/10	1
Benzene	U	0.00042	0.0013	mg/kg		8260B	06/13/10	1
Toluene	U	0.00033	0.0064	mg/kg		8260B	06/13/10	1
Ethylbenzene	U	0.00032	0.0013	mg/kg		8260B	06/13/10	1
Total Xylenes	U	0.00046	0.0038	mg/kg		8260B	06/13/10	1
Methyl tert-butyl ether	U	0.00036	0.0013	mg/kg		8260B	06/13/10	1
Surrogate Recovery								
Toluene-d8	103.			%	Rec.	8260B	06/13/10	1
Dibromofluoromethane	124.			%	Rec.	8260B	06/13/10	1
4-Bromofluorobenzene	99.1			%	Rec.	8260B	06/13/10	1

Results listed are dry weight basis.
 U = ND (Not Detected)
 MDL = Minimum Detection Limit = LOD
 RDL = Reported Detection Limit = LOQ = PQL = EQL

Note:
 This report shall not be reproduced, except in full, without the written approval from ESC.
 The reported analytical results relate only to the sample submitted
 Reported: 06/15/10 14:17 Printed: 06/15/10 14:17



YOUR LAB OF CHOICE

12065 Lebanon Rd.
 Mt. Juliet, TN 37122
 (615) 758-5858
 1-800-767-5859
 Fax (615) 758-5859

Tax I.D. 62-0814289
 Est. 1970

REPORT OF ANALYSIS

Mr. Bryan Williams
 Applied Environmental Technologies,
 PO Box 303
 Carmi, IL 62821

June 15, 2010

Date Received : June 04, 2010
 Description : Maiers Crossville
 Sample ID : NO 14 7.5 FT
 Collected By : Matt Garner
 Collection Date : 06/02/10 14:15

ESC Sample # : L462590-29
 Site ID :
 Project # : MAIERS

Parameter	Dry Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
Total Solids	79.7			%		2540G	06/09/10	1
Benzene	0.0029	0.00042	0.0012	mg/kg		8260B	06/13/10	1
Toluene	0.0065	0.00033	0.0063	mg/kg		8260B	06/13/10	1
Ethylbenzene	0.0031	0.00032	0.0012	mg/kg		8260B	06/13/10	1
Total Xylenes	0.0065	0.00046	0.0038	mg/kg		8260B	06/13/10	1
Methyl tert-butyl ether	0.00064	0.00036	0.0012	mg/kg	J	8260B	06/13/10	1
Surrogate Recovery								
Toluene-d8	97.2			%	Rec.	8260B	06/13/10	1
Dibromofluoromethane	91.4			%	Rec.	8260B	06/13/10	1
4-Bromofluorobenzene	109.			%	Rec.	8260B	06/13/10	1

Results listed are dry weight basis.

U = ND (Not Detected)

MDL = Minimum Detection Limit = LOD

RDL = Reported Detection Limit = LOQ = PQL = EQL

Note:

This report shall not be reproduced, except in full, without the written approval from ESC.

The reported analytical results relate only to the sample submitted

Reported: 06/15/10 14:17 Printed: 06/15/10 14:17

Attachment A
List of Analytes with QC Qualifiers

Sample Number	Work Group	Sample Type	Analyte	Run ID	Qualifier
L462590-16	WG483203	SAMP	Toluene	R1250668	J
	WG483203	SAMP	Ethylbenzene	R1250668	J
	WG483203	SAMP	Total Xylenes	R1250668	J
L462590-18	WG483296	SAMP	Toluene	R1251349	J
	WG483296	SAMP	Total Xylenes	R1251349	J
L462590-21	WG483296	SAMP	Toluene	R1251349	J
	WG483296	SAMP	Ethylbenzene	R1251349	J
	WG483296	SAMP	Total Xylenes	R1251349	J
L462590-22	WG483557	SAMP	Toluene	R1252189	J
	WG483557	SAMP	Ethylbenzene	R1252189	J
	WG483557	SAMP	Total Xylenes	R1252189	J
L462590-23	WG483485	SAMP	Toluene	R1252008	J
L462590-24	WG483296	SAMP	Toluene	R1251349	J
L462590-26	WG483296	SAMP	Toluene	R1251349	J
	WG483296	SAMP	Total Xylenes	R1251349	J
L462590-27	WG483296	SAMP	Toluene	R1251349	J
	WG483296	SAMP	Total Xylenes	R1251349	J
L462590-29	WG483301	SAMP	Methyl tert-butyl ether	R1252313	J

Attachment B
Explanation of QC Qualifier Codes

Qualifier	Meaning
J	(EPA) - Estimated value below the lowest calibration point. Confidence correlates with concentration.

Qualifier Report Information

ESC utilizes sample and result qualifiers as set forth by the EPA Contract Laboratory Program and as required by most certifying bodies including NELAC. In addition to the EPA qualifiers adopted by ESC, we have implemented ESC qualifiers to provide more information pertaining to our analytical results. Each qualifier is designated in the qualifier explanation as either EPA or ESC. Data qualifiers are intended to provide the ESC client with more detailed information concerning the potential bias of reported data. Because of the wide range of constituents and variety of matrices incorporated by most EPA methods, it is common for some compounds to fall outside of established ranges. These exceptions are evaluated and all reported data is valid and useable "unless qualified as 'R' (Rejected)."

Definitions

- Accuracy** - The relationship of the observed value of a known sample to the true value of a known sample. Represented by percent recovery and relevant to samples such as: control samples, matrix spike recoveries, surrogate recoveries, etc.
- Precision** - The agreement between a set of samples or between duplicate samples. Relates to how close together the results are and is represented by Relative Percent Difference.
- Surrogate** - Organic compounds that are similar in chemical composition, extraction, and chromatography to analytes of interest. The surrogates are used to determine the probable response of the group of analytes that are chemically related to the surrogate compound. Surrogates are added to the sample and carried through all stages of preparation and analyses.
- TIC** - Tentatively Identified Compound: Compounds detected in samples that are not target compounds, internal standards, system monitoring compounds, or surrogates.

The appearance of some of the images

following this page is due to

Poor Quality Original Documents

and not the scanning or filming processes.

Com Microfilm Company
(217) 525-5860

Company Name/Address:

Applied Environmental Technologies, Inc.

PO Box 303
Carmi, IL 62821

Billing Information:

Mr. Bryan Williams
PO Box 303
Carmi, IL 62821

Analysis/Container/Preservative

Chain of Custody Page 1 of 2



12065 Lebanon Road
Murfreesboro, TN 37122
Phone: (800) 767-5859
Phone: (615) 758-5858
Fax: (615) 758-5859

Report to: Mr. Bryan Williams
Email to: act98@verizon.net

Project description: Maier's Crossville
City/State Collected: Crossville, IL

Phone: (618) 382-8232
Client Project #: Maier's
ESC Key:

Fax: (618) 382-2462
Site/Facility ID#: P.O.#:

Collected by (signature): Matt Garner
Rush? (Lab MUST Be Notified)
Same Day 200%
Next Day 100%
Two Day 50%
Three Day 25%
Date Results Needed:
Email? No Yes
FAX? No Yes
No. of Cntrs

Sample ID	Comp/Grab	Matrix*	Depth	Date	Time	No.				Remarks/Contaminant	Sample # (lab only)
No 1	Grab	SS	2.5'	6/2/10	9:00	7	X	X	X	L462590-01	15-16
No 2	Grab	SS	7.5'	6/2/10	9:15	6	X	X	X	02-17	
No 3	Grab	SS	12'	6/2/10	9:35	5	X	X	X	03-18	
No 4	Grab	SS	2.5'	6/2/10	9:45	6	X	X	X	04-19	
No 5	Grab	SS	7.5'	6/2/10	9:57	6	X	X	X	05-20	
No 6	Grab	SS	10'	6/2/10	10:05	6	X	X	X	06-21	
No 7	Grab	SS	2.5'	6/2/10	10:20	6	X	X	X	07-22	
No 8	Grab	SS	7.5'	6/2/10	10:30	6	X	X	X	08-23	
No 9	Grab	SS	10'	6/2/10	10:50	6	X	X	X	09-24	

*Matrix: SS - Soil/Solid GW - Groundwater WW - WasteWater DW - Drinking Water OT - Other _____ pH _____ Temp _____

Remarks: Must meet TACO Tier 1 residential objectives Flow _____ Other _____

Delivered by: (Signature) Matt Garner	Date: 6/2/10	Time: 10:30	Received by: (Signature) [Signature]	Samples returned via: <input type="checkbox"/> UPS <input checked="" type="checkbox"/> FedEx <input type="checkbox"/> Courier	Condition: (lab use) OK
Delivered by: (Signature)	Date:	Time:	Received by: (Signature)	Temp: 3.4°C	Bottles Received: 84
Delivered by: (Signature)	Date:	Time:	Received by: (Signature)	Date: 6/2/10	Time: [Signature]

TELE 4341 988 0020

000278

Company Name/Address:
Applied Environmental Technologies, Inc.
 PO Box 303
 Carmi, IL 62821

Billing Information:
 Mr. Bryan Williams
 PO Box 303
 Carmi, IL 62821

Analysis/Container/Preservative

Chain of Custody
 Page 2 of 2



Report to: Mr. Bryan Williams Email to: aet98@Verizon.net

Project description: Maier's Crossville City/State Collected: Crossville, IL

Phone: (618) 382-8232 Client Project #: Maier's ESC Key:
 AX: (618) 382-2462

Collected by: (print) Matt Garner Site/Facility ID#: P.O.#:

Collected by (signature): Matt Garner
 Rush? (Lab MUST Be Notified)
 Same Day 200%
 Next Day 100%
 Two Day 50%
 Three Day 25%
 Date Results Needed:
 Email? No Yes
 FAX? No Yes
 Immediately checked on ice N Y

Sample ID	Comp/Grab	Matrix*	Depth	Date	Time	No. of Cntrs	TCLP Lead		Remarks/Contaminant	Sample # (lab only)
N _o 10	Grab	SS	2.5'	6/2/10	1:00	6	X	X	L462590-10/-11	
N _o 11	↓	↓	7.5'	6/2/10	1:15	6	X	X	-11/-12	
N _o 12	↓	↓	10'	6/2/10	1:30	6	X	X	-12/-13	
N _o 13	↓	↓	2.5'	6/2/10	2:00	6	X	X	-13/-14	
N _o 14	↓	↓	7.5'	6/2/10	2:15	6	X	X	-14/-15	

*Matrix: SS - Soil/Solid GW - Groundwater WW - WasteWater DW - Drinking Water OT - Other _____

pH _____ Temp _____

Remarks: Must meet TACD Tier 1 residential objectives

Flow _____ Other _____

Relinquished by: (Signature) <u>Matt Garner</u>	Date: <u>6/2/10</u>	Time: <u>10:45</u>	Received by: (Signature) <u>[Signature]</u>	Samples returned via: <input checked="" type="checkbox"/> FedEx <input type="checkbox"/> UPS <input type="checkbox"/> Courier	Condition: <u>[Signature]</u> (lab use only)
Relinquished by: (Signature) <u>[Signature]</u>	Date:	Time:	Received by: (Signature) <u>[Signature]</u>	34	84
Relinquished by: (Signature) <u>[Signature]</u>	Date:	Time:	Received for lab by: (Signature) <u>[Signature]</u>	Date: <u>6/2/10</u>	Time: <u>0900</u>

000279

Maler's Grocery
Groundwater Analytical Summary Table
7/16/10

Results of Water Sample Analyses for BTEX, MTBE and TCLP Extraction Lead.

Analyte	Class I GW Objective	MW-1	MW-2	MW-3	MW-4	MW-5
Date Sampled		6/30/10	6/30/10	6/30/10	6/30/10	6/30/10
BTEX						
Benzene	0.005	0.00015	0.022	0.27	0.0018	0.0086
Toluene	1	<0.00021	0.0031	0.020	<0.00021	0.00036
Ethylbenzene	0.7	0.00022	0.0048	0.15	0.00044	0.0037
Xylenes (Total)	10	<0.00043	0.0087	0.19	0.0023	0.013
MTBE	0.07	0.018	0.040	0.12	0.044	0.034
TCLP Extraction: Lead	0.0075	<0.0075	<0.0075	<0.0075	<0.0075	<0.0075

All concentrations given in mg/L. Bold entries exceed cleanup objectives.



12065 Lebanon Rd.
Mt. Juliet, TN 37122
(615) 758-5858
1-800-767-5859
Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

Mr. Bryan Williams
Applied Environmental Technologies, Inc.
PO Box 303
Carmi, IL 62821

Report Summary

Tuesday July 13, 2010

Report Number: L467177

Samples Received: 07/02/10

Client Project: MAIERS GROCERY

Description: Maiers Grocery

The analytical results in this report are based upon information supplied by you, the client, and are for your exclusive use. If you have any questions regarding this data package, please do not hesitate to call.

Entire Report Reviewed By:

Craig Cothron, ESC Representative

Laboratory Certification Numbers

A2LA - 1461-01, AIHA - 100789, AL - 40660, CA - I-2327, CT - PH-0197, FL - E87497
GA - 923, IN - C-TN-01, KY - 90010, KYUST - 0016, NC - ENV375/DW21704, ND - R-140
NJ - TN002, NJ NELAP - TN002, SC - 84004, TN - 2006, VA - 00109, WV - 233
AZ - 0612, MN - 047-999-395, NY - 11742, WI - 998093910, NV - TN000032008A

Accreditation is only applicable to the test methods specified on each scope of accreditation held by ESC Lab Sciences.

Note: The use of the preparatory EPA Method 3511 is not approved or endorsed by the CA ELAP.

This report may not be reproduced, except in full, without written approval from ESC Lab Sciences. Where applicable, sampling conducted by ESC is performed per guidance provided in laboratory standard operating procedures: 060302, 060303, and 060304.



YOUR LAB OF CHOICE

12065 Lebanon Rd.
Mt. Juliet, TN 37122
(615) 758-5858
1-800-767-5859
Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

July 13, 2010

Mr. Bryan Williams
Applied Environmental Technologies,
PO Box 303
Carmi, IL 62821

Date Received : July 02, 2010
Description : Maiers Grocery
Sample ID : MW-1
Collected By : Matt Garner
Collection Date : 06/30/10 14:00

ESC Sample # : L467177-01

Site ID :

Project # : MAIERS GROCERY

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
Benzene	0.00015	0.00013	0.00050	mg/l	J	8021	07/09/10	1
Toluene	U	0.00021	0.0050	mg/l		8021	07/09/10	1
Ethylbenzene	0.00022	0.00021	0.00050	mg/l	J	8021	07/09/10	1
Total Xylene	U	0.00043	0.0015	mg/l		8021	07/09/10	1
Methyl tert-butyl ether	0.018	0.00018	0.0010	mg/l		8021	07/09/10	1
Surrogate Recovery(%) a,a,a-Trifluorotoluene (PID)	102.			% Rec.		8021	07/09/10	1

U = ND (Not Detected)
MDL = Minimum Detection Limit = LOD
RDL = Reported Detection Limit = LOQ = PQL = EQL

Note:
The reported analytical results relate only to the sample submitted.
This report shall not be reproduced, except in full, without the written approval from ESC.

Reported: 07/13/10 15:42 Printed: 07/13/10 15:43



12065 Lebanon Rd.
Mt. Juliet, TN 37122
(615) 758-5858
1-800-767-5859
Fax (615) 758-5859
Tax I.D. 62-0814289
Est. 1970

REPORT OF ANALYSIS

July 13, 2010

Mr. Bryan Williams
Applied Environmental Technologies,
PO Box 303
Carmi, IL 62821

Date Received : July 02, 2010
Description : Maiers Grocery
Sample ID : MW-1
Collected By : Matt Garner
Collection Date : 06/30/10 14:00

ESC Sample # : L467177-02
Site ID :
Project : MAIERS GROCERY

Parameter	Result	Det. Limit	Units	Limit	Method	Date/Time	By	Dil
TCCLP Extraction	-				1311	07/03/10 0724	AJN	1
Lead	BDL	0.0075	mg/l	5.0	6010B	07/05/10 2011	ALT	1

BDL - Below Detection Limit
Det. Limit - Estimated Quantitation Limit(EQL)
Limit - Maximum Contaminant Level as established by the US EPA
Note:
The reported analytical results relate only to the sample submitted.
This report shall not be reproduced, except in full, without the written approval from ESC.
Reported: 07/13/10 15:42 Printed: 07/13/10 15:43



12065 Lebanon Rd.
 Mt. Juliet, TN 37122
 (615) 758-5858
 1-800-767-5859
 Fax (615) 758-5859
 Tax I.D. 62-0814289
 Est. 1970

REPORT OF ANALYSIS

July 13, 2010

Mr. Bryan Williams
 Applied Environmental Technologies,
 PO Box 303
 Carmi, IL 62821

Date Received : July 02, 2010
 Description : Maiers Grocery
 Sample ID : MW-2
 Collected By : Matt Garner
 Collection Date : 06/30/10 14:30

ESC Sample # : L467177-03
 Site ID :
 Project # : MAIERS GROCERY

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
Benzene	0.022	0.00013	0.00050	mg/l		8021	07/09/10	1
Toluene	0.0031	0.00021	0.0050	mg/l	J	8021	07/09/10	1
Ethylbenzene	0.0048	0.00021	0.00050	mg/l		8021	07/09/10	1
Total Xylene	0.0087	0.00043	0.0015	mg/l		8021	07/09/10	1
Methyl tert-butyl ether	0.040	0.00018	0.0010	mg/l		8021	07/09/10	1
Surrogate Recovery(%) a,a,a-Trifluorotoluene (PID)	104.			% Rec.		8021	07/09/10	1

U = ND (Not Detected)
 MDL = Minimum Detection Limit = LOD
 RDL = Reported Detection Limit = LOQ = PQL = EQL
 Note:
 The reported analytical results relate only to the sample submitted.
 This report shall not be reproduced, except in full, without the written approval from ESC.
 Reported: 07/13/10 15:42 Printed: 07/13/10 15:43



YOUR LAB OF CHOICE

12065 Lebanon Rd.
Mt. Juliet, TN 37122
(615) 758-5858
1-800-767-5859
Fax (615) 758-5859
Tax I.D. 62-0814289
Est. 1970

REPORT OF ANALYSIS

Mr. Bryan Williams
Applied Environmental Technologies,
PO Box 303
Carmi, IL 62821

July 13, 2010

Date Received : July 02, 2010
Description : Maiers Grocery
Sample ID : MW-2
Collected By : Matt Garner
Collection Date : 06/30/10 14:30

ESC Sample # : L467177-04
Site ID :
Project : MAIERS GROCERY

Parameter	Result	Det. Limit	Units	Limit	Method	Date/Time	By	Dil
TCLP Extraction	-				1311	07/03/10 0724	AJN	1
Lead	BDL	0.0075	mg/l	5.0	6010B	07/05/10 2014	ALT	1

BDL - Below Detection Limit
Det. Limit - Estimated Quantitation Limit(EQL)
Limit - Maximum Contaminant Level as established by the US EPA
Note:
The reported analytical results relate only to the sample submitted.
This report shall not be reproduced, except in full, without the written approval from ESC.
Reported: 07/13/10 15:42 Printed: 07/13/10 15:43



12065 Lebanon Rd.
 Mt. Juliet, TN 37122
 (615) 758-5858
 1-800-767-5859
 Fax (615) 758-5859
 Tax I.D. 62-0814289
 Est. 1970

REPORT OF ANALYSIS

Mr. Bryan Williams
 Applied Environmental Technologies,
 PO Box 303
 Carmi, IL 62821

July 13, 2010

Date Received : July 02, 2010
 Description : Maiers Grocery
 Sample ID : MW-3
 Collected By : Matt Garner
 Collection Date : 06/30/10 14:45

ESC Sample # : L467177-05

Site ID :

Project # : MAIERS GROCERY

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
Benzene	0.27	0.00013	0.00050	mg/l	E	8021	07/09/10	1
Toluene	0.020	0.00021	0.0050	mg/l		8021	07/09/10	1
Ethylbenzene	0.15	0.00021	0.00050	mg/l		8021	07/09/10	1
Total Xylene	0.19	0.00043	0.0015	mg/l		8021	07/09/10	1
Methyl tert-butyl ether	0.12	0.00018	0.0010	mg/l		8021	07/09/10	1
Surrogate Recovery(%) a,a,a-Trifluorotoluene(PID)	105.			% Rec.		8021	07/09/10	1

U = ND (Not Detected)
 MDL = Minimum Detection Limit = LOD
 RDL = Reported Detection Limit = LOQ = PQL = EQL
 Note:

The reported analytical results relate only to the sample submitted.
 This report shall not be reproduced, except in full, without the written approval from ESC.

Reported: 07/13/10 15:42 Printed: 07/13/10 15:43



12065 Lebanon Rd.
Mt. Juliet, TN 37122
(615) 758-5858
1-800-767-5859
Fax (615) 758-5859
Tax I.D. 62-0814289
Est. 1970

REPORT OF ANALYSIS

Mr. Bryan Williams
Applied Environmental Technologies,
PO Box 303
Carmi, IL 62821

July 13, 2010

Date Received : July 02, 2010
Description : Maiers Grocery
Sample ID : MW-3
Collected By : Matt Garner
Collection Date : 06/30/10 14:45

ESC Sample # : L467177-06
Site ID :
Project : MAIERS GROCERY

Parameter	Result	Det. Limit	Units	Limit	Method	Date/Time	By	Dil
TCLP Extraction	-				1311	07/03/10 0724	AJN	1
Lead	BDL	0.0075	mg/l	5.0	6010B	07/05/10 2018	ALT	1

BDL - Below Detection Limit
Det. Limit - Estimated Quantitation Limit(EQL)
Limit - Maximum Contaminant Level as established by the US EPA
Note:
The reported analytical results relate only to the sample submitted.
This report shall not be reproduced, except in full, without the written approval from ESC.

Reported: 07/13/10 15:42 Printed: 07/13/10 15:43



12065 Lebanon Rd.
 Mt. Juliet, TN 37122
 (615) 758-5858
 1-800-767-5859
 Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Mr. Bryan Williams
 Applied Environmental Technologies,
 PO Box 303
 Carmi, IL 62821

July 13, 2010

Date Received : July 02, 2010
 Description : Maiers Grocery
 Sample ID : MW-4
 Collected By : Matt Garner
 Collection Date : 06/30/10 15:20

ESC Sample # : L467177-07

Site ID :

Project # : MAIERS GROCERY

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
Benzene	0.0018	0.00013	0.00050	mg/l		8021	07/09/10	1
Toluene	U	0.00021	0.0050	mg/l		8021	07/09/10	1
Ethylbenzene	0.00044	0.00021	0.00050	mg/l	J	8021	07/09/10	1
Total Xylene	0.0023	0.00043	0.0015	mg/l		8021	07/09/10	1
Methyl tert-butyl ether	0.044	0.00018	0.0010	mg/l		8021	07/09/10	1
Surrogate Recovery(%) a,a,a-Trifluorotoluene (PID)	101.			% Rec.		8021	07/09/10	1

U = ND (Not Detected)

MDL = Minimum Detection Limit = LOD

RDL = Reported Detection Limit = LOQ = PQL = EQL

Note:

The reported analytical results relate only to the sample submitted.

This report shall not be reproduced, except in full, without the written approval from ESC.

Reported: 07/13/10 15:42 Printed: 07/13/10 15:43



YOUR LAB OF CHOICE

12065 Lebanon Rd.
Mt. Juliet, TN 37122
(615) 758-5858
1-800-767-5859
Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

July 13, 2010

Mr. Bryan Williams
Applied Environmental Technologies,
PO Box 303
Carmi, IL 62821

Date Received : July 02, 2010
Description : Maiers Grocery
Sample ID : MW-4
Collected By : Matt Garner
Collection Date : 06/30/10 15:20

ESC Sample # : L467177-08
Site ID :
Project : MAIERS GROCERY

Parameter	Result	Det. Limit	Units	Limit	Method	Date/Time	By	Dil
TCLP Extraction	-				1311	07/03/10 0724	AJN	1
Lead	BDL	0.0075	mg/l	5.0	6010B	07/05/10 2021	ALT	1

BDL - Below Detection Limit
Det. Limit - Estimated Quantitation Limit(EQL)
Limit - Maximum Contaminant Level as established by the US EPA
Note:
The reported analytical results relate only to the sample submitted.
This report shall not be reproduced, except in full, without the written approval from ESC.

Reported: 07/13/10 15:42 Printed: 07/13/10 15:43



12065 Lebanon Rd.
 Mt. Juliet, TN 37122
 (615) 758-5858
 1-800-767-5859
 Fax (615) 758-5859
 Tax I.D. 62-0814289
 Est. 1970

REPORT OF ANALYSIS

Mr. Bryan Williams
 Applied Environmental Technologies,
 PO Box 303
 Carmi, IL 62821

July 13, 2010

Date Received : July 02, 2010
 Description : Maiers Grocery
 Sample ID : MW-5
 Collected By : Matt Garner
 Collection Date : 06/30/10 15:30

ESC Sample # : L467177-09
 Site ID :
 Project # : MAIERS GROCERY

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
Benzene	0.0086	0.00013	0.00050	mg/l		8021	07/09/10	1
Toluene	0.00036	0.00021	0.0050	mg/l	J	8021	07/09/10	1
Ethylbenzene	0.0037	0.00021	0.00050	mg/l		8021	07/09/10	1
Total Xylene	0.013	0.00043	0.0015	mg/l		8021	07/09/10	1
Methyl tert-butyl ether	0.034	0.00018	0.0010	mg/l		8021	07/09/10	1
Surrogate Recovery(%) a,a,a-Trifluorotoluene (PID)	100.			% Rec.		8021	07/09/10	1

U = ND (Not Detected)
 MDL = Minimum Detection Limit = LOD
 RDL = Reported Detection Limit = LOQ = PQL = EQL
 Note:
 The reported analytical results relate only to the sample submitted.
 This report shall not be reproduced, except in full, without the written approval from ESC.
 Reported: 07/13/10 15:42 Printed: 07/13/10 15:43



12065 Lebanon Rd.
Mt. Juliet, TN 37122
(615) 758-5858
1-800-767-5859
Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Mr. Bryan Williams
Applied Environmental Technologies,
PO Box 303
Carmi, IL 62821

July 13, 2010

Date Received : July 02, 2010
Description : Maiers Grocery
Sample ID : MW-5
Collected By : Matt Garner
Collection Date : 06/30/10 15:30

ESC Sample # : L467177-10

Site ID :

Project : MAIERS GROCERY

Parameter	Result	Det. Limit	Units	Limit	Method	Date/Time	By	Dil
TCLP Extraction	-				1311	07/03/10 0724	AJN	1
Lead	BDL	0.0075	mg/l	5.0	6010B	07/05/10 2024	ALT	1

BDL - Below Detection Limit
Det. Limit - Estimated Quantitation Limit (EQL)
Limit - Maximum Contaminant Level as established by the US EPA

Note:
The reported analytical results relate only to the sample submitted.
This report shall not be reproduced, except in full, without the written approval from ESC.

Reported: 07/13/10 15:42 Printed: 07/13/10 15:43

Attachment A
List of Analytes with QC Qualifiers

Sample Number	Work Group	Sample Type	Analyte	Run ID	Qualifier
L467177-01	WG487534	SAMP	Benzene	R1284331	J
	WG487534	SAMP	Ethylbenzene	R1284331	J
L467177-03	WG487534	SAMP	Toluene	R1284331	J
L467177-05	WG487534	SAMP	Benzene	R1284331	E
L467177-07	WG487534	SAMP	Ethylbenzene	R1284331	J
L467177-09	WG487534	SAMP	Toluene	R1284331	J

Attachment B
Explanation of QC Qualifier Codes

Qualifier	Meaning
E	GTL (EPA) - Greater than upper calibration limit: Actual value is known to be greater than the upper calibration range.
J	(EPA) - Estimated value below the lowest calibration point. Confidence correlates with concentration.

Qualifier Report Information

ESC utilizes sample and result qualifiers as set forth by the EPA Contract Laboratory Program and as required by most certifying bodies including NELAC. In addition to the EPA qualifiers adopted by ESC, we have implemented ESC qualifiers to provide more information pertaining to our analytical results. Each qualifier is designated in the qualifier explanation as either EPA or ESC. Data qualifiers are intended to provide the ESC client with more detailed information concerning the potential bias of reported data. Because of the wide range of constituents and variety of matrices incorporated by most EPA methods, it is common for some compounds to fall outside of established ranges. These exceptions are evaluated and all reported data is valid and useable "unless qualified as 'R' (Rejected)."

Definitions


- Accuracy** - The relationship of the observed value of a known sample to the true value of a known sample. Represented by percent recovery and relevant to samples such as: control samples, matrix spike recoveries, surrogate recoveries, etc.
- Precision** - The agreement between a set of samples or between duplicate samples. Relates to how close together the results are and is represented by Relative Percent Difference.
- Surrogate** - Organic compounds that are similar in chemical composition, extraction, and chromatography to analytes of interest. The surrogates are used to determine the probable response of the group of analytes that are chemically related to the surrogate compound. Surrogates are added to the sample and carried through all stages of preparation and analyses.
- TIC** - Tentatively Identified Compound: Compounds detected in samples that are not target compounds, internal standards, system monitoring compounds, or surrogates.

Summary of Remarks For Samples Printed
07/13/10 at 15:43:21

TSR Signing Reports: 034
R5 - Desired TAT

Log all PAHs as SV8270PAHSIM

Sample: L467177-01 Account: APPENVCIR Received: 07/02/10 09:00 Due Date: 07/12/10 00:00 RPT Date: 07/13/10 15:42
Sample: L467177-02 Account: APPENVCIR Received: 07/02/10 09:00 Due Date: 07/12/10 00:00 RPT Date: 07/13/10 15:42
Sample: L467177-03 Account: APPENVCIR Received: 07/02/10 09:00 Due Date: 07/12/10 00:00 RPT Date: 07/13/10 15:42
Sample: L467177-04 Account: APPENVCIR Received: 07/02/10 09:00 Due Date: 07/12/10 00:00 RPT Date: 07/13/10 15:42
Sample: L467177-05 Account: APPENVCIR Received: 07/02/10 09:00 Due Date: 07/12/10 00:00 RPT Date: 07/13/10 15:42
Sample: L467177-06 Account: APPENVCIR Received: 07/02/10 09:00 Due Date: 07/12/10 00:00 RPT Date: 07/13/10 15:42
Sample: L467177-07 Account: APPENVCIR Received: 07/02/10 09:00 Due Date: 07/12/10 00:00 RPT Date: 07/13/10 15:42
Sample: L467177-08 Account: APPENVCIR Received: 07/02/10 09:00 Due Date: 07/12/10 00:00 RPT Date: 07/13/10 15:42
Sample: L467177-09 Account: APPENVCIR Received: 07/02/10 09:00 Due Date: 07/12/10 00:00 RPT Date: 07/13/10 15:42
Sample: L467177-10 Account: APPENVCIR Received: 07/02/10 09:00 Due Date: 07/12/10 00:00 RPT Date: 07/13/10 15:42

Company Name/Address: Applied Environmental Technologies, Inc. PO Box 303 Carmi, IL 62821		Billing Information: Mr. Bryan Williams PO Box 303 Carmi, IL 62821		Analysis/Container/Preservative			Chain of Custody Page ___ of ___			
Report to: <i>Bryan Williams</i>		Email to: <i>Act98@vericon.net</i>		BIFLEX/MBE TCLP LEAD			 ESC LAB SCIENCES 12065 Lebanon Road Mt. Juliet, TN 37122 Phone: (800) 767-5859 Phone: (615) 758-5858 Fax: (615) 758-5859 E153			
Project Description: <i>Maiers Grocery</i>		City/State Collected: <i>Carmi, IL</i>								
Phone: (618) 382-8232		Client Project #: <i>Maiers Grocery</i>							ESC Key:	
FAX: (618) 382-2462		Site/Facility ID#:							P.O.#:	
Collected by: (print) <i>Matt Garner</i>		Collected by (signature): <i>Matt Garner</i>							<input checked="" type="checkbox"/> Rush? (Lab MUST Be Notified) <input type="checkbox"/> Same Day..... 200% <input type="checkbox"/> Next Day..... 100% <input type="checkbox"/> Two Day..... 50% <input type="checkbox"/> Three Day..... 25%	
Immediately Packed on Ice N <input checked="" type="checkbox"/> Y <input type="checkbox"/>		Date Results Needed:		Email? <input type="checkbox"/> No <input checked="" type="checkbox"/> Yes		FAX? <input type="checkbox"/> No <input type="checkbox"/> Yes				
Sample ID		Comp/Grab	Matrix*	Depth	Date	Time	No. of Cntrs	Remarks/Contaminant	Sample # (lab only)	
<i>MW-1</i>	<i>Grab</i>	<i>GW</i>	<i>-</i>	<i>7/30/10</i>	<i>2:00</i>	<i>4</i>	<i>X X</i>		<i>2467/7/30/10</i>	
<i>MW-2</i>	<i>↓</i>	<i>↓</i>	<i>-</i>	<i>↓</i>	<i>2:30</i>	<i>↓</i>	<i>X X</i>		<i>02/04</i>	
<i>MW-3</i>	<i>↓</i>	<i>↓</i>	<i>-</i>	<i>↓</i>	<i>2:45</i>	<i>↓</i>	<i>X X</i>		<i>05/06</i>	
<i>MW-4</i>	<i>↓</i>	<i>↓</i>	<i>-</i>	<i>↓</i>	<i>3:00</i>	<i>↓</i>	<i>X X</i>		<i>07/08</i>	
<i>MW-5</i>	<i>↓</i>	<i>↓</i>	<i>-</i>	<i>↓</i>	<i>3:30</i>	<i>↓</i>	<i>X X</i>		<i>09/10</i>	

*Matrix: SS - Soil/Solid GW - Groundwater WW - WasteWater DW - Drinking Water OT - Other _____ pH _____ Temp _____

Remarks: *Must meet TACO TIER 1 residential objectives* Flow _____ Other _____

Relinquished by: (Signature) <i>Matt Garner</i>	Date: <i>7/30/10</i>	Time: <i>8:10AM</i>	Received by: (Signature) <i>[Signature]</i>	Samples returned via: <input type="checkbox"/> UPS <input checked="" type="checkbox"/> FedEx <input type="checkbox"/> Courier	Condition: <i>016</i> (lab use only)
Relinquished by: (Signature) <i>[Signature]</i>	Date:	Time:	Received by: (Signature) <i>[Signature]</i>	Temp: <i>26.0C</i>	Bottles Received: <i>20</i>
Relinquished by: (Signature) <i>[Signature]</i>	Date:	Time:	Received for lab by: (Signature) <i>[Signature]</i>	Date: <i>07/02/10</i>	Time: <i>0900</i>

TRK 4341 9808 0101

000295

2467177

The Agency is authorized to require this information under Section 4 and Title XVI of the Environmental Protection Act (415 ILCS 5/4, 5/7 - 5/7.17). Failure to disclose this information may result in a civil penalty of not to exceed \$50,000.00 for the violation and an additional civil penalty of not to exceed \$10,000.00 for each day during which the violation continues (415 ILCS 5/42). Any person who knowingly makes a false material statement or representation in any label, manifest, record, report, permit, or license, or other document filed, maintained or used for the purpose of compliance with Title XVI commits a Class 4 Felony. Any second or subsequent offense after conviction hereunder is a Class 3 felony (415 ILCS 5/57.17). This form has been approved by the Forms Management Center.

**Illinois Environmental Protection Agency
Leaking Underground Storage Tank Program
Laboratory Certification for Chemical Analysis**

A. Site Identification

IEMA Incident # (6 digit): 20091397 IEPA Generator # (10 digit): 1930155021

Site Name: Maier's Grocery

Site Address (Not a P.O. Box): 109 South State Street

City: Crossville County: White Zip Code: 62827

B. Sample Collector

I certify that:

- 1. Appropriate sampling equipment/methods were utilized to obtain representative sample.
- 2. Chain of custody procedures were followed in the field.
- 3. Sample integrity was maintained by proper preservation.
- 4. All samples were properly labeled.

[Signature]
(initial)
[Signature]
(initial)
[Signature]
(initial)
[Signature]
(initial)

C. Laboratory Representative

I certify that:

- 1. Proper chain of custody procedures were followed as documented on the chain of custody forms.
- 2. Sample integrity was maintained by proper preservation.
- 3. All samples were properly labeled.

[Signature]
(initial)
[Signature]
(initial)
[Signature]
(initial)

C467177

4. Quality assurance/quality control procedures were established and carried out. CC
(initial)
5. Sample holding times were not exceeded. CC
(initial)
6. SW-846 Analytical Laboratory Procedure (USEPA) methods were used for the analyses. CC
(initial)
7. An accredited lab performed quantitative analysis using test methods identified in 35 IAC 186.180 (for samples collected on or after January 1, 2003). CC
(initial)

D. Signatures

I hereby affirm that all information contained in this form is true and accurate to the best of my knowledge and belief. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Sample Collector

Name: John Marks
Title: Civil Engineer
Company: Applied Environmental Technologies, Inc.
Address: P.O. Box 303
City, State, ZIP: Carmi, IL 62821
Phone: (618)382-8232
Signature: John Marks
Date: 9/16/10

Laboratory Representative

Name: Craig Cothron
Title: Laboratory Project Manager
Company: Environmental Science Corp.
Address: 12065 Lebanon Road
City, State, ZIP: Mt. Juliet, TN 37122
Phone: 1-800-767-5889
Signature: Craig Cothron
Date: 7/14/10

Laboratory Certification for Chemical Analysis

Exhibit C

PROJECT: Maier's Grocery BORING NO. B-1
 LOCATION: Crossville, Illinois
 DATE DRILLED: 06/02/10
 DEPTH OF BORING: 15'
 WATER INDICATION: Groundwater Encountered @ 8'
 WATER SAMPLE: PRODUCT LAYER: N/A
 METHODS: DRILLING: Geoprobe SAMPLING: Continuous
 DRILLING CO.: Advanced Environmental Drilling
 OBSERVATIONS BY: Matt Garner, John Marks Page 1 of 5

DEPTH	SAMPLE	FID	DESCRIPTION	DEPTH	FT. RECOVERY
0			Asphalt 3"	0	
			Crushed Stone 9"		
2	■	N.D.	No Recovery	2	
4			Dark Clay w/Pebbles Slightly Sandy	4	
6			Dark Sandy Clay	6	
			Rock		
8	■	N.D.	Brown Mottled Gray Sandy Clay	8	
10			Brown, Sandy Clay (moist)	10	
12	■	N.D.	Brown Mottled Gray Clay (Dry)	12	
14			Brown Clay, Sandy (wet)	14	
16			Bottom of Boring: 15'	16	
18				18	
20				20	
22				22	
24				24	
26				26	

BORING LOG

Applied Environmental Technologies, Inc.

PROJECT: Maier's Grocery BORING NO. B-2
 LOCATION: Crossville, Illinois
 DATE DRILLED: 06/02/10
 DEPTH OF BORING: 15'
 WATER INDICATION: Groundwater Encountered @ 11'
 WATER SAMPLE: PRODUCT LAYER: N/A
 METHODS: DRILLING: Geoprobe SAMPLING: Continuous
 DRILLING CO.: Advanced Environmental Drilling
 OBSERVATIONS BY: Matt Garner, John Marks Page 2 of 5

DEPTH	SAMPLE	FID	DESCRIPTION	DEPTH	FT. RECOVERY
0			Concrete 4"	0	
2		11.0	Crushed Stone 4"	2	
4			Brown Mottled Gray Clay (Stain and Odor)	4	
6			No Recovery	6	
8		8.0		8	
10		8.2	Gray Clay (Stain and Odor)	10	
			Brown Mottled Gray Clay (Stain and Odor)		
12			Brown Mottled Gray Clay	12	
			Groundwater Encountered @ 11'		
14			Brown Mottled Gray Clay (No Water)	14	
16			Bottom of Boring: 15'	16	
18				18	
20				20	
22				22	
24				24	
26				26	

BORING LOG

Applied Environmental Technologies, Inc.

PROJECT: Maier's Grocery BORING NO. _____
 LOCATION: Crossville, Illinois B-3
 DATE DRILLED: 06/02/10
 DEPTH OF BORING: 15'
 WATER INDICATION: Groundwater Encountered @ 12'
 WATER SAMPLE: PRODUCT LAYER: N/A
 METHODS: DRILLING: Geoprobe SAMPLING: Continuous
 DRILLING CO.: Advanced Environmental Drilling
 OBSERVATIONS BY: Matt Garner, John Marks Page 3 of 5

DEPTH	SAMPLE	FID	DESCRIPTION	DEPTH	FT. RECOVERY
0			Concrete 4"	0	
			Crushed Stone 4"		
2	■	7.0	Dark Clay (Odor)	2	
4			Gray Mottled Brown Clay (Stain and Odor)	4	
6			Very Dark Brown Clay (Stain and Odor)	6	
8	■	5.5	Gray Mottled Brown Clay (sl. Odor)	8	
10	■	4.5	Brown Mottled Gray Clay	10	
12			Gray Mottled Brown Clay (Odor and sl. Stain)	12	
			Gray Mottled Brown Clay		
14			Gray Slightly Silty Clay (No Water)	14	
16			Bottom of Boring: 15'	16	
18				18	
20				20	
22				22	
24				24	
26				26	

BORING LOG

Applied Environmental Technologies, Inc.

PROJECT: Maier's Grocery BORING NO. _____
 LOCATION: Crossville, Illinois B-4
 DATE DRILLED: 06/02/10
 DEPTH OF BORING: 15'
 WATER INDICATION: Groundwater Encountered @ 11.5'
 WATER SAMPLE: PRODUCT LAYER: N/A
 METHODS: DRILLING: Geoprobe SAMPLING: Continuous
 DRILLING CO.: Advanced Environmental Drilling
 OBSERVATIONS BY: Matt Garner, John Marks Page 4 of 5

DEPTH	SAMPLE	FID	DESCRIPTION	DEPTH	FT. RECOVERY
0			Concrete 4"	0	
2		10.0	Crushed Stone 4" Dark Clay (Stain and Odor)	2	
4			Gray Clay (Stain and mod. Odor)	4	
6			Gray Mottled Brown Clay (sl. Stain and mod. Odor)	6	
8		4.3	Gray Mottled Brown Clay	8	
10		3.0	Gray Mottled Brown Clay (sl. Odor and Stain)	10	
12			Groundwater Encountered @ 11.5' Brown Mottled Gray Clay	12	
14			Brown Mottled Gray Clay	14	
16			Bottom of Boring: 15'	16	
18				18	
20				20	
22				22	
24				24	
26				26	

BORING LOG

Applied Environmental Technologies, Inc.

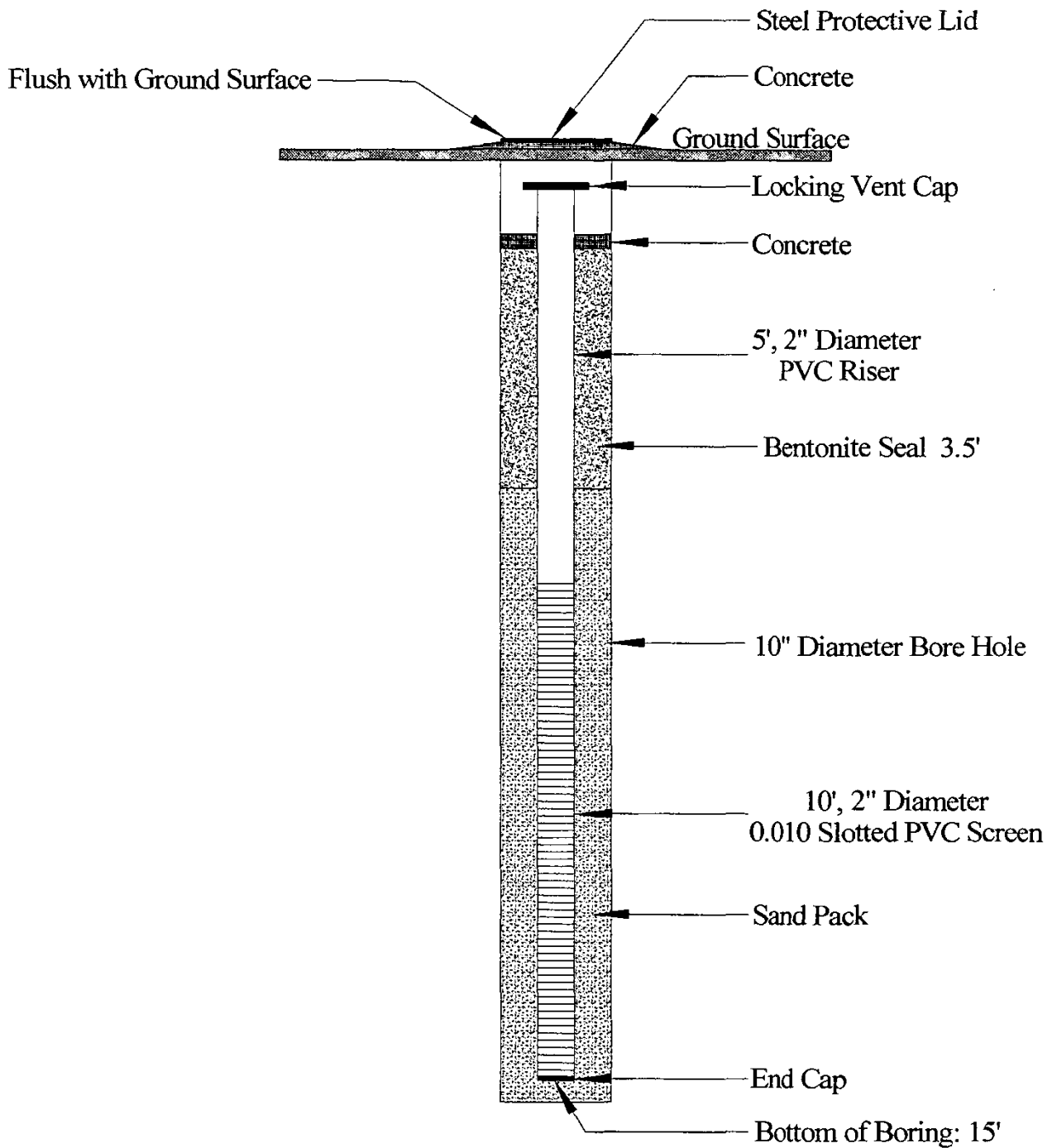
PROJECT: Maier's Grocery BORING NO. B-5
 LOCATION: Crossville, Illinois
 DATE DRILLED: 06/02/10
 DEPTH OF BORING: 15'
 WATER INDICATION: Groundwater Encountered @ 11'
 WATER SAMPLE: PRODUCT LAYER: N/A
 METHODS: DRILLING: Geoprobe SAMPLING: Continuous
 DRILLING CO.: Advanced Environmental Drilling
 OBSERVATIONS BY: Matt Garner, John Marks Page 5 of 5

DEPTH	SAMPLE	FID	DESCRIPTION	DEPTH	FT. RECOVERY
0			Concrete 4"	0	
2		N.D.	Crushed Stone 4"	2	
4			Brown Mottled Gray Clay	4	
6			Dark Brown Clay	6	
8		N.D.	Brown Mottled Gray Clay	8	
10			Refusal	10	
12			Brown Slightly Silty Clay Groundwater Encountered @ 11'	12	
14			Gray Sandy Clay	14	
16			Bottom of Boring: 15'	16	
18				18	
20				20	
22				22	
24				24	
26				26	

BORING LOG

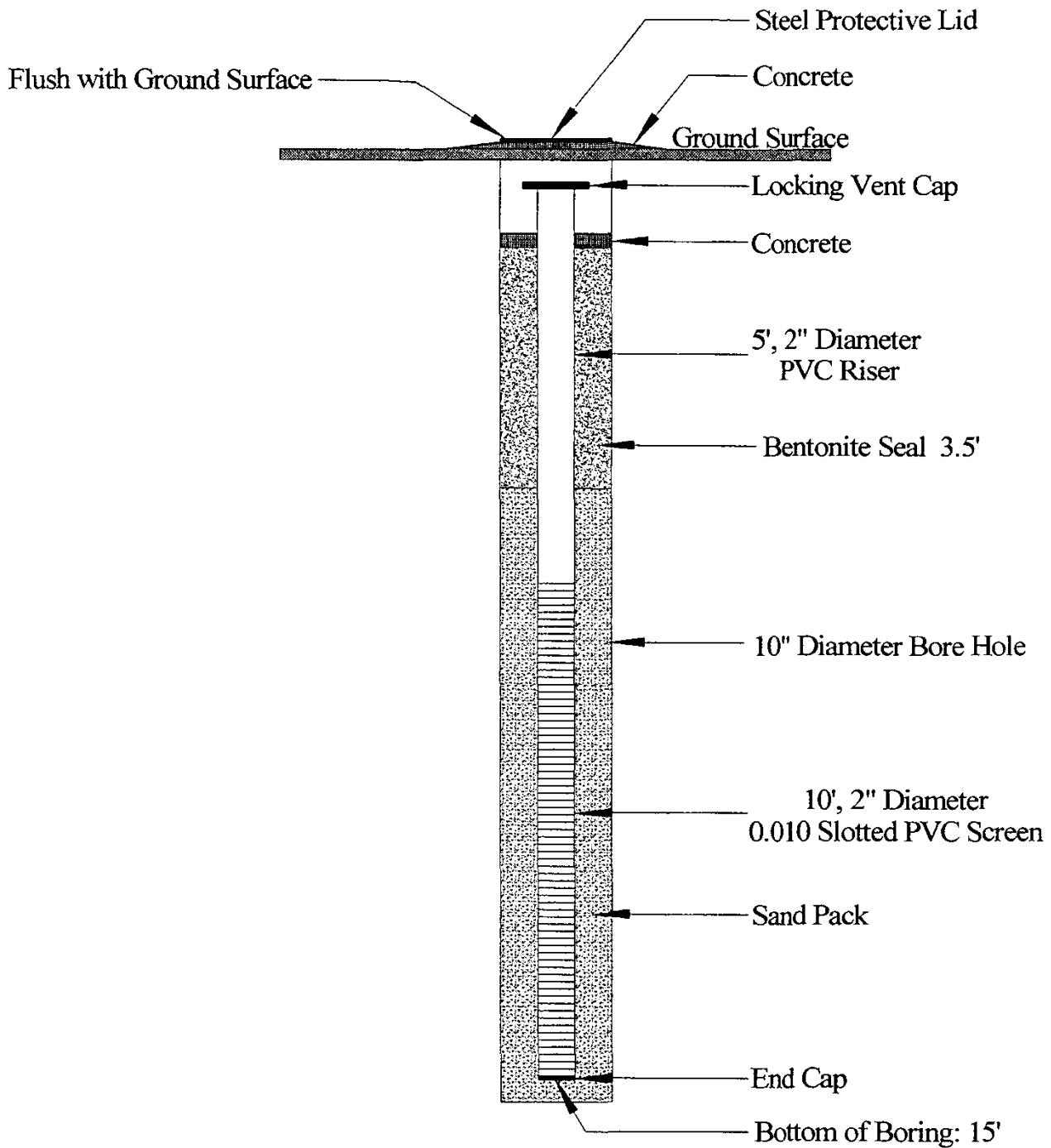
Applied Environmental Technologies, Inc.

Exhibit D



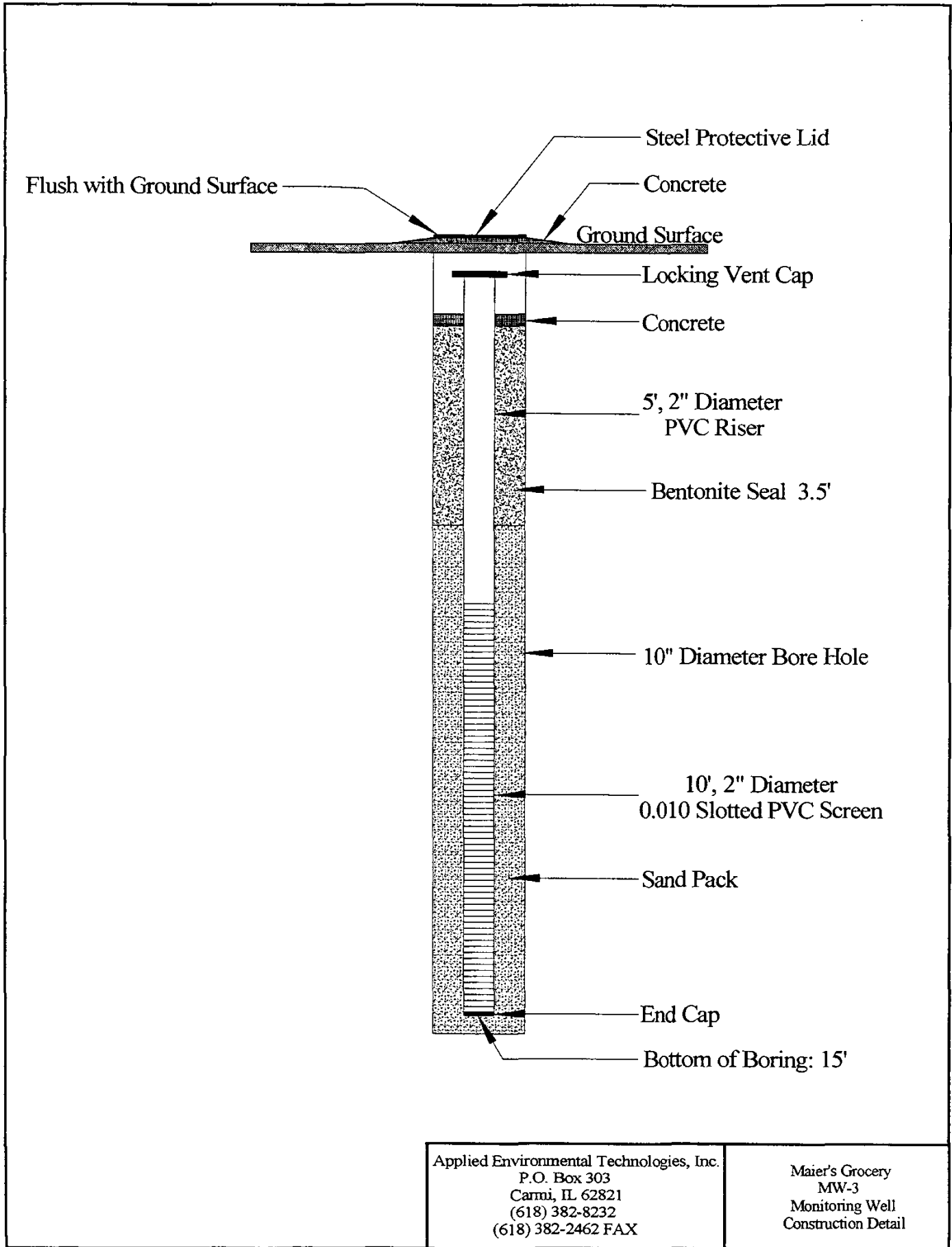
Applied Environmental Technologies, Inc.
 P.O. Box 303
 Carmi, IL 62821
 (618) 382-8232
 (618) 382-2462 FAX

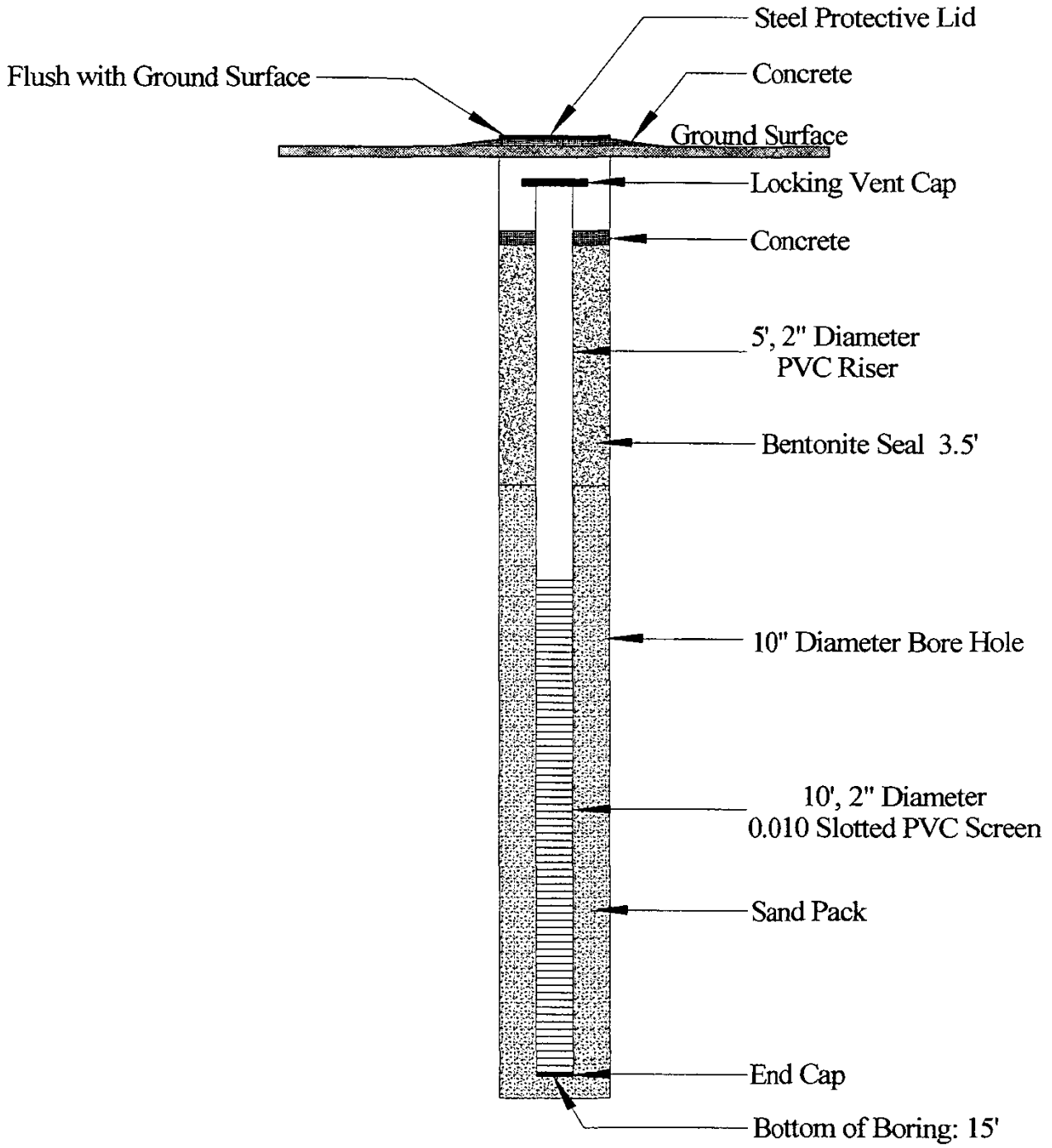
Maier's Grocery
 MW-1
 Monitoring Well
 Construction Detail



Applied Environmental Technologies, Inc.
 P.O. Box 303
 Carmi, IL 62821
 (618) 382-8232
 (618) 382-2462 FAX

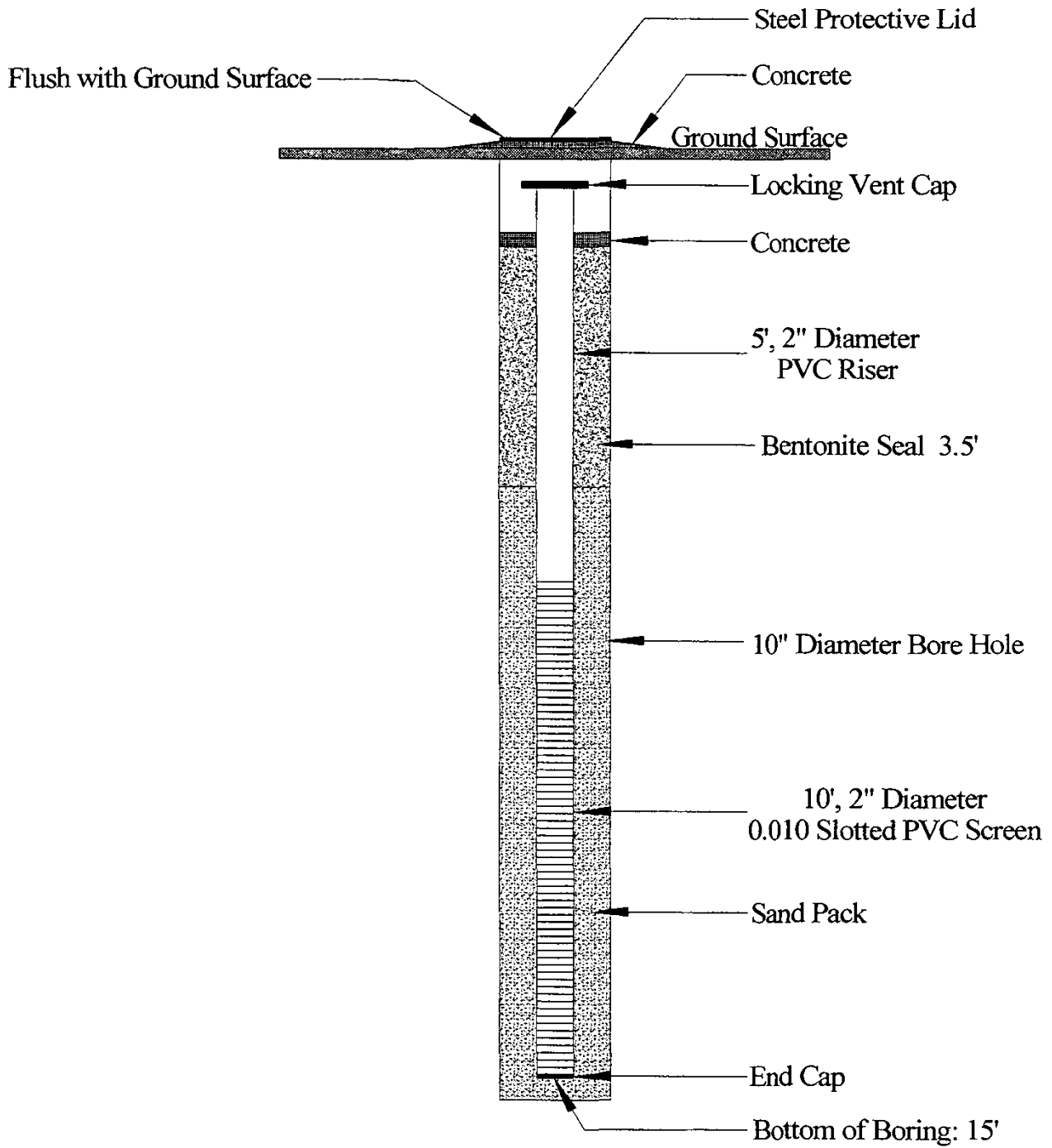
Maier's Grocery
 MW-2
 Monitoring Well
 Construction Detail





Applied Environmental Technologies, Inc.
 P.O. Box 303
 Carmi, IL 62821
 (618) 382-8232
 (618) 382-2462 FAX

Maier's Grocery
 MW-4
 Monitoring Well
 Construction Detail



Applied Environmental Technologies, Inc.
 P.O. Box 303
 Carmi, IL 62821
 (618) 382-8232
 (618) 382-2462 FAX

Maier's Grocery
 MW-5
 Monitoring Well
 Construction Detail

Exhibit E

FILE NO. L 1930155021

EXEMPT DOCUMENT NO. 001

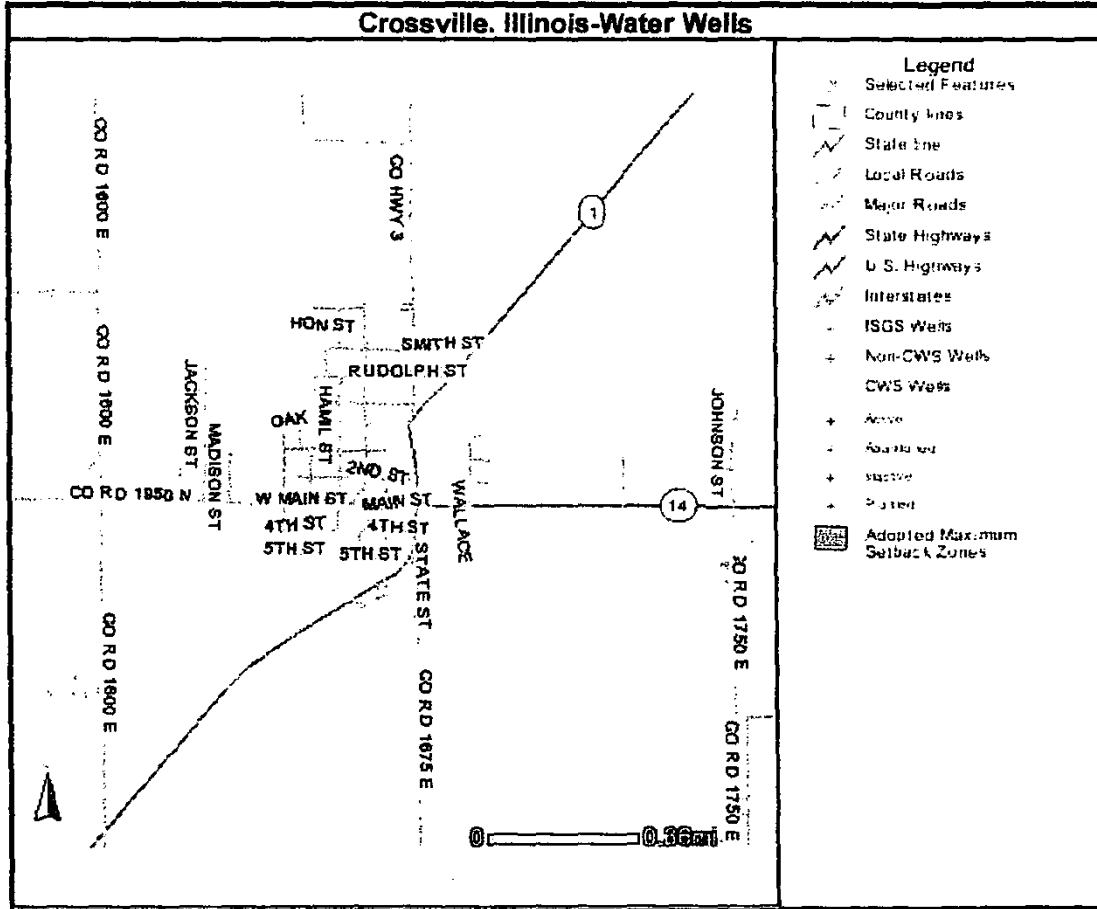
**THE AGENCY HAS DETERMINED THIS DOCUMENT
IS EXEMPT IN PART FROM PUBLIC DISCLOSURE**

**EXEMPT
IN
PART
DOCUMENT**

FILE CATEGORY LIST/TECH

DOCUMENT DATE 09-16-2010

Information and data presented were obtained from various Federal, State, and local agencies and are subject to revision.



ISGS Wells

Rec	API_NUMBER	TOTAL_DEPT	FARM_NAME	ELEVATION	STATUS	LAM_X	LAM_Y	LATITUDE	LONGITUDE	COUNTY_NO
1		41			WATER					
2		330		430	WATRS					
3	121933168000	74	Weigh Station Ditch	396	ENG	3409403	1875887	38.161651	88.068482	31880
4		41		0	WATER					
5		0			WATER					

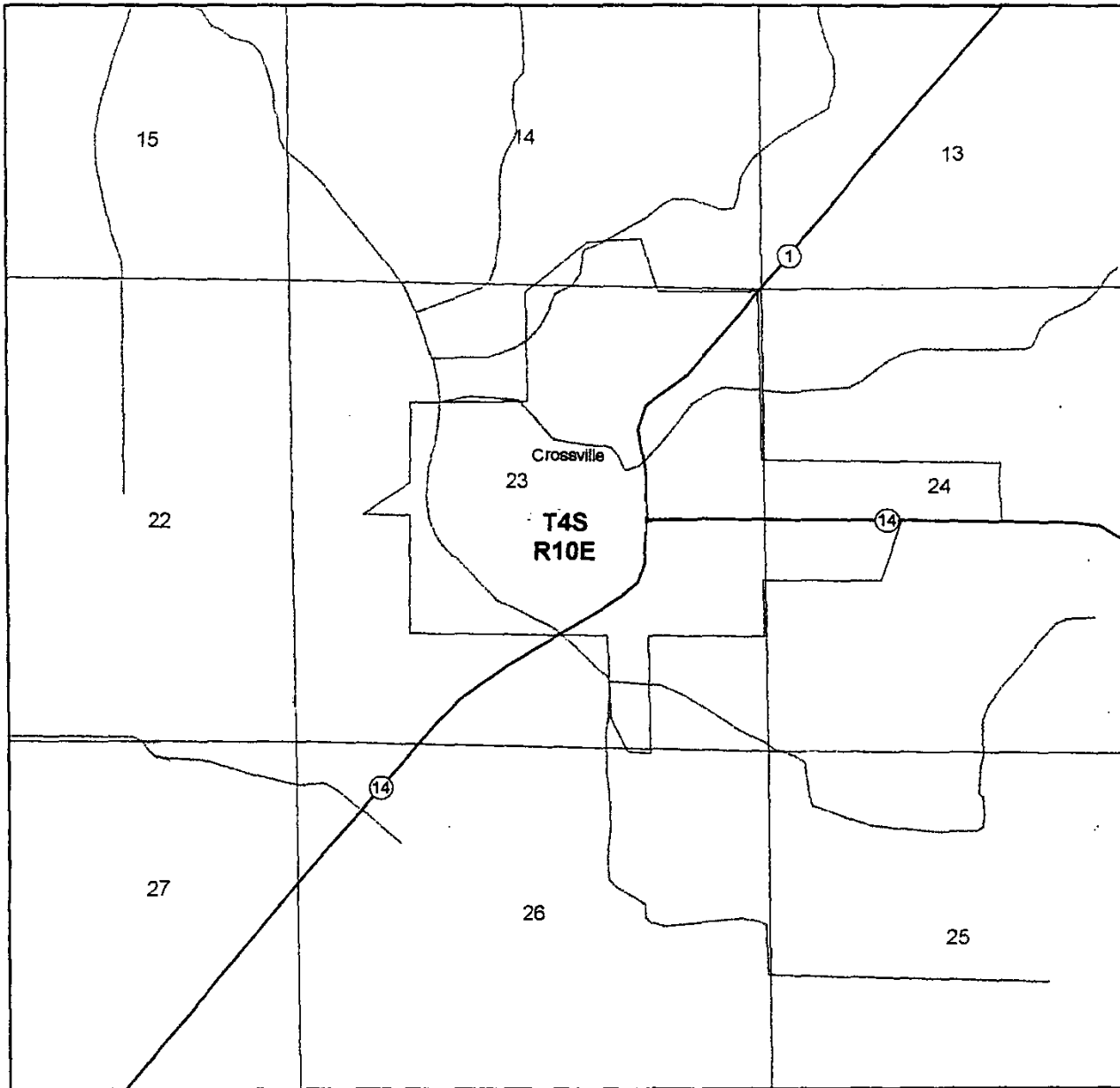
RELEASABLE

OCT 19 2010

REVIEWER MD

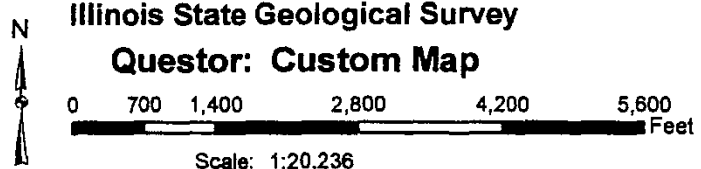
1/12/2010

file://A:\Crossville.htm



Explanation					
o	Water	✧	D&A - Gas Show	⊗	Junked
×	Engineering	◇	D&A	⊖	Temporarily Abandoned
●	Oil	⊗	Gas Injection	⊞	Observation
*	Oil & Gas	○	Gas Storage	⊠	Other Injection
⊞	Gas	●	Salt Water Disposal	⊡	Other Well Type
⊞	D&A - Oil Show	⊞	Water Injection	+	Unknown
✧	D&A - Oil & Gas Show	△	Water Supply		

/ through any symbol indicates well is currently plugged



Displayed data are based upon information supplied to the Illinois State Geological Survey (ISGS) and are not field verified. The ISGS does not guarantee the validity, accuracy, or completeness of these data.

January 4, 2010

Questor Data Extraction

11101

Speth, James
 Well Status: WATER - Water Well
 Comdate: 10/26/1990 Plugdate: TD: 49
 Elevation: Permit #: 019390 Permit Date: 10/17/1990
 Latitude: Longitude:

Owner Address:
 Well Type: PRIV - Private Water Well
 Water Bearing Formation: sand & gravel 35 to 48 ft
 Static Water Level: 20 ft. below casing top of 1 ft. Hole Diam.:
 Screen Diam.: 6 in. Screen Length: 10 ft. Slot: 20.00
 Pumping Level: 48 ft. when pumping at 10 gpm for hours.
 Casing and Liner Pipe: Diam. (in.) Kind and Weight From(ft)
 6 ID SDR21 PVC PLASTIC -1 38

Driller's Log: 0 - 22 clay
 22 - 25 quick sand
 25 - 35 gray mud
 35 - 48 sand & gravel
 48 - 49 gray mud

Well Status: WATER - Water Well
 Comdate: Plugdate: TD:
 Elevation: Permit #: Permit Date:
 Latitude: Longitude:

Logs Run: Geologic Tops
 Survey Sample Study

Dietz, Willis R.
 Well Status: WATER - Water Well
 Comdate: Plugdate: TD: 41
 Elevation: Permit #: Permit Date:
 Latitude: Longitude:

Logs Run: Geologic Tops
 Survey Sample Study

Well Status: WATER - Water Well
 Comdate: Plugdate: TD: 41
 Elevation: Permit #: Permit Date:
 Latitude: Longitude:

Logs Run: Geologic Tops
 Survey Sample Study

Speth, David
 Well Status: WATER - Water Well
 Comdate: 01/15/1982 Plugdate: TD: 315
 Elevation: Permit #: 102365 Permit Date: 12/10/1981
 Latitude: Longitude:

January 4, 2010

Questor Data Extraction

11101

Well Type: WF - Water Flood/Repressurize
 Water Bearing Formation: water sand 255 to 315 ft
 Static Water Level: 110 ft. below casing top of 1 ft. Hole Diam.:
 Pumping Level: ft. when pumping at 7 gpm for hours.
 Casing and Liner Pipe: Diam. (in.) Kind and Weight From(ft)
 5 ID PVC 0 256
 Size hole below casing: 5 in.

Driller's Log: 0 - 27 clay
 27 - 68 quick sand
 68 - 80 sand
 80 - 105 sandy slate
 105 - 163 dark slate
 163 - 167 coal
 167 - 168 lime
 168 - 185 gray slate
 185 - 211 sandy slate
 211 - 214 coal
 214 - 216 lime
 216 - 255 gray slate
 255 - 315 water sand

West, Dean
 Well Status: WATER - Water Well TD: 71
 Complate: 11/19/1992 Plugdate: Permit Date: 10/26/1992
 Elevation: Permit #: 022540 Latitude: Longitude:

Owner Address:
 Well Type: PRIV - Private Water Well
 Water Bearing Formation: sand 59 to 76 ft
 Static Water Level: 13 ft. below casing top of 1 ft. Hole Diam.: 7 in.
 Screen Diam.: 5 in. Screen Length: 15 ft. Slot: .03
 Casing and Liner Pipe: Diam. (in.) Kind and Weight From(ft)
 5 SDR 21 -1 76
 Size hole below casing: 5 in.

Driller's Log: 0 - 12 clay
 12 - 49 blue shale
 49 - 71 sand

Speth, James
 Well Status: WATER - Water Well TD: 110
 Complate: 09/20/2007 Plugdate: Permit Date: 08/21/2007
 Elevation: Permit #: 193-05- Latitude: Longitude:

Owner Address:
 Well Type: PRIV - Private Water Well
 Water Bearing Formation: water sand 105 to 109 ft
 Static Water Level: 18 ft. below casing top of 1 ft. Hole Diam.: 8 in.
 Screen Diam.: 5 in. Screen Length: 10 ft. Slot: 20.00
 Casing and Liner Pipe: Diam. (in.) Kind and Weight From(ft)
 5 PVC SDR 21 -2 100
 5 SCREEN 100 110

Driller's Log: 0 - 4 topsoil
 4 - 13 brown clay

January 4, 2010

Questor Data Extraction

11101

15 - 31 gray clay
 31 - 49 sand & gravel
 49 - 69 gray clay
 69 - 76 brown clay
 76 - 88 gray shale
 88 - 89 lime
 89 - 92 gray shale
 92 - 96 sandy gray shale
 96 - 97 lime
 97 - 105 sandy gray shale
 105 - 109 water sand
 109 - 110 gray shale

Lamp, Robert Wayne
 Well Status: WATER - Water Well
 Comdate: 03/01/1982
 Elevation:

Plugdate:
 Permit #: 102477

TD: 100
 Permit Date: 12/23/1981

Latitude: _____ Longitude: _____

Owner Address: _____

Well Type: PRIV - Private Water Well

Water Bearing Formation: sandstone 80 to 100 ft

Static Water Level: 20 ft. below casing top of 1 ft.

Hole Diam.:

Screen Diam.: 5 in. Screen Length: 10 ft.

Slot: .01

Pumping Level: 60 ft. when pumping at 20 gpm for 1 hours.

Casing and Liner Pipe:	Diam. (in.)	Kind and Weight	From(ft)	
	5	SCH 40	-1	81
	5	SCH 40 SCRNS .015 PVC	81	91
	5	SCH 40	91	96

Size hole below casing: 6.5 in.

Driller's Log: 0 - 15 clay
 15 - 30 sand quick sand
 30 - 80 sand & mud
 80 - 100 gray sandstone

JM	FIPS	TWN	RNG	SEC	PLOT	OWNER	DRILLER	COMPLETED DATE	RECORD DEPTH	TYPE	USE	WELL TYPE	AQ TYPE	STAT LVL	PUMP LVL	PUMP GPM
		04S	10E	14	2G		HACKER	02/26/1990	120	RG	DO	--	BR	20		
		04S	10E	14	3G		FLEMING	04/14/1981	155	RG	DO	--	BR	17		
		04S	10E	14	7G		TURNER	06/05/1976	100	RG	DO	--	BR	35		
		04S	10E	15	7A		LAMP	08/12/1980	125	RG	DO	--	UN	30		
		04S	10E	22	1A		SPETH	10/26/1990	49	RG	DO	--	UN	19	48	
		04S	10E	23	4E			00/00/1940	38	RGC	DO	BD	--			
		04S	10E	25	8H		SPETH	01/15/1982	315	RG	IC	--	BR	110		
		04S	10E	26			WEST-STAR DRILING	11/19/1992	71	RG	DO	DL	UN	12		
		04S	10E	26	2B		SPETH PLBG./WALKER	06/18/1997	58	RG	DO	BD	UN	2	23	30
		04S	10E	27			SLOAN WELL SERVICE	09/12/1990	150	RG	DO	--	UN			
		04S	10E	27	3H		JAMES SPETH	09/20/2007	110	RG	DO	DL	UN			
		04S	10E	27	3H		LAMP	03/01/1982	100	RG	DO	--	BR	20		

Illinois State Water Survey IWIP Database

Wednesday, January 6, 2010

County: WHITE

Township: 04S

Range: 10E

Sections: 13-15,22-27

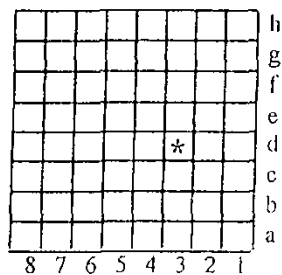
Records Found: 4

Questions: Contact the Illinois State Water Survey's Center for Groundwater Science @ (217)-333-9043

Publication: Please cite the Illinois State Water Survey's IWIP (Illinois Water Inventory Program) Database in all publications based wholly or partially on this information.

Note: The data in the IWIP Database is a listing of municipal and commercial wells which are known to the Illinois State Water Survey (ISWS). This information was initially entered from public water supply data and supplemented with the Illinois State Water Inventory Project data. This database is updated as additional information is received and verified.

This data cannot be resold or redistributed. The Illinois State Water Survey must be acknowledged in any use of this material.



Location of a 10-acre-plot within a section:

The origin can be found at the lower right-hand-corner of an 8 x 8 grid. In this example, the well is in the 10-acre plot '3d'.

Illinois State Water Survey Well Database

Wednesday, January 6, 2010

County: WHITE

Township: 04S

Range: 10E

Sections: 13-15,22-27

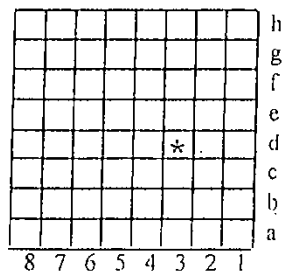
Records Found: 12

Questions: Contact the Illinois State Water Survey's Center for Groundwater Science @ (217)-333-9043

Publication: Please cite the Illinois State Water Survey's Well Database in all publications based wholly or partially on this information.

ote: The data listed in this printout includes non-municipal wells which are known to the Illinois State Water Survey (ISWS). This information has been entered verbatim from well logs submitted by the driller, chemical analysis reports, well sealing forms, well inventory forms from the 1930-1934 well survey, and other special projects. The accuracy of this data is controlled by those submitting the forms. Information in the Well Database has not been verified.

This data cannot be resold or redistributed. The Illinois State Water Survey must be acknowledged in any use of this material.



Location of a 10-acre-plot within a section:

The origin can be found at the lower right-hand-corner of an 8 x 8 grid. In this example, the well is in the 10-acre plot '3d'.

P NUM	RPS	TWN	RNG	SEC	PLOT	OWNER	DRILLER	COMPLETED		STATUS	RECORD	STAT	PUMP	PUM
								DATE	DEPTH		TYPE	LVL	LVL	CPW
		04S	10E	23	3E		ROBERT R CALLAGHAN	1944		A	Z			
							ISWS FACILITY ID: _____ WELL NUMBER: _____							
		04S	10E	23	3E		LOCKWOOD & SUTTON	1946	165	A	L			
							REMARKS: BACKFILLED TO 107 ISWS FACILITY ID: _____ WELL NUMBER: _____							
		04S	10E	23	3E		ENOCH L POTTS	1940	41	A	RG			
							REMARKS: ACTUAL DEPTH = 40.3 ISWS FACILITY ID: _____ WELL NUMBER: _____							
		04S	10E	23	3E		ALBERT LANCASTER	1940		A	Z			
							REMARKS: ACTUAL DEPTH = 47.5 ISWS FACILITY ID: _____ WELL NUMBER: _____							

Exhibit F

**Hydraulic Conductivity from Slug Test Data
using Bouwer and Rice Method**

Project: Maier's Grocery - Crossville, IL Date: 7/9/2010
 Calc. By: MDG Chk'd by: _____

Well Column Diameter (2rc):	2.0 inches	Depth to water tbl(ft):	7.30
Sand Pack Diameter (2rw):	6.0 inches	Depth of well bot (ft):	15.00
Screened Length (Le):	10.0 feet	Ref Depth: top of riser	
Aquifer Thickness (H):	10.00 feet	Depth/Xducer:	Xducer
Water ht above screen bot (Lw):	7.70 feet	Porosity:	0.3
Lw/rw:	30.8	Efftive col. Dia (2rc)	3.7
Le/rw:	40.0	ln(Le/rw):	3.69
Bouwer-Rice Factors:	A: 2.80	4th Order Polynomial	
	B: 0.80	approximations to curves in	
	C: 2.50	1989 paper	
ln(Re/rw):	H=Lw:		
	H>Lw:	2.297	
Hydr. Cond. (cm/s)	H=Lw:		best fit slope: -0.002111
	H>Lw:	1.74E-04	

TIME(sec)	D sub n	h sub n	ln(h sub n)	ln(hn/hn-1)	ln(h/h-1)/t	Estimated Slope
1	0	13.1	5.80	1.76		
2	5	13	5.70	1.74	-0.017392	-0.002038
3	10	12.98	5.68	1.74	-0.003515	-0.002401
4	15	12.92	5.62	1.73	-0.01062	-0.002523
5	20	12.85	5.55	1.71	-0.012534	-0.002507
6	25	12.78	5.48	1.70	-0.012693	-0.002539
7	30	12.7	5.40	1.69	-0.014706	-0.002941
8	35	12.67	5.37	1.68	-0.005571	-0.001114
9	40	12.58	5.28	1.66	-0.016902	-0.00338
10	45	12.54	5.24	1.66	-0.007605	-0.001521
11	50	12.47	5.17	1.64	-0.013449	-0.00269
12	55	12.4	5.10	1.63	-0.013632	-0.002726
13	60	12.36	5.06	1.62	-0.007874	-0.001575
14	70	12.24	4.94	1.60	-0.024001	-0.0024
15	80	12.07	4.77	1.56	-0.035019	-0.003502
16	90	11.97	4.67	1.54	-0.021187	-0.002119
17	100	11.86	4.56	1.52	-0.023836	-0.002384
18	110	11.75	4.45	1.49	-0.024419	-0.002442
19	120	11.65	4.35	1.47	-0.022728	-0.002273
20	130	11.57	4.27	1.45	-0.018562	-0.001856
21	140	11.45	4.15	1.42	-0.028505	-0.002851
22	150	11.38	4.08	1.41	-0.017011	-0.001701
23	160	11.3	4.00	1.39	-0.019803	-0.00198
24	170	11.21	3.91	1.36	-0.022757	-0.002276
25	180	11.14	3.84	1.35	-0.018065	-0.001807
26	190	11.05	3.75	1.32	-0.023717	-0.002372
27	200	10.98	3.68	1.30	-0.018843	-0.001884
28	210	10.89	3.59	1.28	-0.024761	-0.002476
29	220	10.84	3.54	1.26	-0.014025	-0.001403

30	230	10.77	3.47	1.24	-0.019972	-0.001997	-0.002265
31	240	10.71	3.41	1.23	-0.017442	-0.001744	-0.002246
32	250	10.64	3.34	1.21	-0.020741	-0.002074	-0.002231
33	260	10.58	3.28	1.19	-0.018127	-0.001813	-0.002215
34	270	10.51	3.21	1.17	-0.021572	-0.002157	-0.002202
35	280	10.45	3.15	1.15	-0.018868	-0.001887	-0.002189
36	290	10.38	3.08	1.12	-0.022473	-0.002247	-0.002179
37	300	10.33	3.03	1.11	-0.016367	-0.001637	-0.002168
38	320	10.27	2.97	1.09	-0.020001	-0.001	-0.002143
39	340	10.16	2.86	1.05	-0.03774	-0.001887	-0.00212
40	360	10.05	2.75	1.01	-0.039221	-0.001961	-0.002099
41	380	9.94	2.64	0.97	-0.040822	-0.002041	-0.002081
42	400	9.84	2.54	0.93	-0.038615	-0.001931	-0.002065
43	420	9.75	2.45	0.90	-0.036076	-0.001804	-0.00205
44	440	9.67	2.37	0.86	-0.033198	-0.00166	-0.002034
45	460	9.6	2.30	0.83	-0.029981	-0.001499	-0.002016
46	480	9.52	2.22	0.80	-0.035402	-0.00177	-0.002
47	500	9.46	2.16	0.77	-0.027399	-0.00137	-0.001983
48	520	9.4	2.10	0.74	-0.028171	-0.001409	-0.001965
49	540	9.35	2.05	0.72	-0.024098	-0.001205	-0.001945
50	560	9.29	1.99	0.69	-0.029705	-0.001485	-0.001926
51	580	9.24	1.94	0.66	-0.025447	-0.001272	-0.001907
52	600	9.2	1.90	0.64	-0.020834	-0.001042	-0.001886
53	660	9.15	1.85	0.62	-0.026668	-0.000444	-0.001845
54	720	9.01	1.71	0.54	-0.078692	-0.001312	-0.0018
55	780	8.89	1.59	0.46	-0.072759	-0.001213	-0.001754
56	840	8.81	1.51	0.41	-0.051624	-0.00086	-0.001705
57	900	8.71	1.41	0.34	-0.06852	-0.001142	-0.001657
58	960	8.63	1.33	0.29	-0.058411	-0.000974	-0.001612
59	1020	8.56	1.26	0.23	-0.054067	-0.000901	-0.001568
60	1080	8.49	1.19	0.17	-0.057158	-0.000953	-0.001527
61	1140	8.43	1.13	0.12	-0.051736	-0.000862	-0.001488
62	1200	8.38	1.08	0.08	-0.045257	-0.000754	-0.001451

-0.002111

Holcomb Foundation Engineering Co., Inc.

SOILS • BITUMINOUS • CONCRETE • ENGINEERING AND TESTING

SHIPPING ADDRESS
393 Wood Road
Carbondale, IL 62901

MAILING ADDRESS
PO Box 88
Carbondale, IL 62903

PHONE 618-529-5262
TOLL FREE 800-333-1740
FAX 618-457-8991

June 21, 2010

Applied Environmental Technologies, Inc.
PO Box 303
Carmi, Illinois 62821

Attention: Mr. Bryan Williams

Re: Soil Tests
Maiers Grocery
Crossville, Illinois
HFE File H-09077

Dear Sir:


Results of the laboratory tests performed on a soil sample delivered to our laboratory on June 4, 2010, are as follows:

Sample No.	#1
Bulk Density:	99.2 pcf
Moisture Content:	24.1%
Specific Gravity:	2.70

If you should have any questions, please feel free to contact us at your convenience.

Sincerely,

HOLCOMB FOUNDATION ENGINEERING CO.


Timothy J. Holcomb, P.E.

www.holcombengineering.com

000324



12065 Lebanon Rd.
Mt. Juliet, TN 37122
(615) 758-5858
1-800-767-5859
Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Mr. Bryan Williams
Applied Environmental Technologies,
PO Box 303
Carmi, IL 62821

June 15, 2010

Date Received : June 04, 2010
Description : Maiers Crossville
Sample ID : NO 1 2.5 FT
Collected By : Matt Garner
Collection Date : 06/02/10 09:00

ESC Sample # : L462590-15

Site ID :

Project # : MAIERS

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
TOC (Total Organic Carbon)	1700	10.	mg/kg	USDA LOI	06/11/10	1

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit (PQL)

Note:

The reported analytical results relate only to the sample submitted.

This report shall not be reproduced, except in full, without the written approval from ESC.

Reported: 06/15/10 14:17 Printed: 06/15/10 14:17

Exhibit G

APPLIED ENVIRONMENTAL TECHNOLOGIES, INC.

Bryan K. Williams
Professional Geologist/President

P.O. Box 303
Carmi, IL 62821
Bus. 618-382-8232
Fax 618-382-2462
Home 618-384-3601

August 26, 2010

Ms. Ardella V. Martin
276 Co. Rd. 500 North
Norris City, IL 62869-3301

RE: Affidavit for access to property
Vacant lot south of Maier's Grocery
Crossville, IL 62827

Dear Ms. Martin,

Martin & Bayley, Inc., the underground storage tank (UST) owner or operator, is performing an environmental response action at Maier's Grocery, 109 South State Street in Crossville, Illinois. The response action is being performed due to leaking gasoline underground storage tanks. The response action consists of performing soil and groundwater sampling by installation of soil borings and groundwater monitoring wells to define any gasoline contamination in the soil or groundwater from the Maier's Grocery and Gas Store adjacent to your property.

Illinois petroleum UST regulations require that the UST owner or operator determine the extent of petroleum contamination caused by a UST system release. Information currently in our possession indicates that petroleum contamination may have migrated onto your property.

Illinois petroleum UST regulations state, in part, that:

1. According to Section 57 of the Environmental Protection Act (Act), the UST owner or operator is legally responsible to remediate the contamination caused by the UST system release;
2. If the property owner denies access to the UST owner or operator, the UST owner or operator may seek to gain entry by a court order pursuant to Section 22.2c of the ACT;
3. In performing the requested investigation, the UST owner or operator will work so as to minimize any disruption on the property, will maintain, or its environmental consultant will maintain, appropriate insurance and will repair any damage caused by the investigation;
4. If contamination results from a UST release by the UST owner or operator, the UST owner or operator will conduct all associated remediation at its own expense; and
5. Threats to human health and the environment and diminished property value may result from failure to remediate contamination from the UST release.

Therefore, Martin & Bayley, Inc. requests that access to your property be granted for the purpose of conducting an investigation to comply with Illinois petroleum UST regulations. Said investigation will, at a minimum, require the collection of soil and/or groundwater samples. We would appreciate a response within 30 days of receipt of this letter.

To learn more about the Maier's Grocery and Gas Store located at 109 South State Street in Crossville, Illinois, please contact Applied Environmental Technologies, Inc, P.O. Box 303, Carmi, IL 62821, (618) 382-8232, or the Illinois Environmental Protection Agency (IEPA), Leaking Underground Storage Tank Section project manager at (217) 782-6761. You may also obtain a copy of the complete Illinois EPA file regarding the Maier's Grocery and Gas Store in Crossville, IL. To do so, you must submit a written request with your signature to:

Illinois Environmental Protection Agency
Bureau of Land - #24
Freedom of Information Act (FOIA) Officer
1021 North Grand Avenue East
Post Office Box 19276
Springfield, IL 62794-9276

When requesting a copy of the file, please reference the file heading shown below:

LPC #1930155021 – White County
Crossville/Martin and Bayley, Inc.
109 South State Street
LUST Incident No. 20091397

____ We the undersigned, as owner or representative of the property at vacant lot south of Maier's Grocery in Crossville, Illinois, **grant** permission to Applied Environmental Technologies, Inc. on behalf of Martin & Bayley, Inc. to conduct drilling and soil sampling on said property.

____ We the undersigned, as owner representative of the property at vacant lot south of Maier's Grocery Street in Crossville, Illinois, **do not grant** permission to Applied Environmental Technologies, Inc. on behalf of Martin & Bayley, Inc. to conduct drilling and soil sampling on said property.

Name: _____ Date: _____
Ms. Ardella Martin

Sincerely,

Mark Bayley
Chairman, Martin and Bayley, Inc.

APPLIED ENVIRONMENTAL TECHNOLOGIES, INC.

Bryan K. Williams
Professional Geologist/President

P.O. Box 303
Carmi, IL 62821
Bus. 618-382-8232
Fax 618-382-2462
Home 618-384-3601

August 26, 2010

Mr. John Ackerman
122 Meadowbrook Ln.
Mt. Carmel, IL 62863

RE: Affidavit for access to property
102 South Cross Street
Crossville, IL 62827

Dear Mr. Ackerman,

Martin & Bayley, Inc., the underground storage tank (UST) owner or operator, is performing an environmental response action at Maier's Grocery, 109 South State Street in Crossville, Illinois. The response action is being performed due to leaking gasoline underground storage tanks. The response action consists of performing soil and groundwater sampling by installation of soil borings and groundwater monitoring wells to define any gasoline contamination in the soil or groundwater from the Maier's Grocery and Gas Store adjacent to your property.

Illinois petroleum UST regulations require that the UST owner or operator determine the extent of petroleum contamination caused by a UST system release. Information currently in our possession indicates that petroleum contamination may have migrated onto your property.

Illinois petroleum UST regulations state, in part, that:

1. According to Section 57 of the Environmental Protection Act (Act), the UST owner or operator is legally responsible to remediate the contamination caused by the UST system release;
2. If the property owner denies access to the UST owner or operator, the UST owner or operator may seek to gain entry by a court order pursuant to Section 22.2c of the ACT;
3. In performing the requested investigation, the UST owner or operator will work so as to minimize any disruption on the property, will maintain, or its environmental consultant will maintain, appropriate insurance and will repair any damage caused by the investigation;
4. If contamination results from a UST release by the UST owner or operator, the UST owner or operator will conduct all associated remediation at its own expense; and
5. Threats to human health and the environment and diminished property value may result from failure to remediate contamination from the UST release.

Therefore, Martin & Bayley, Inc. requests that access to your property be granted for the purpose of conducting an investigation to comply with Illinois petroleum UST regulations. Said investigation will, at a minimum, require the collection of soil and/or groundwater samples. We would appreciate a response within 30 days of receipt of this letter.

To learn more about the Maier's Grocery and Gas Store located at 109 South State Street in Crossville, Illinois, please contact Applied Environmental Technologies, Inc, P.O. Box 303, Carmi, IL 62821, (618) 382-8232, or the Illinois Environmental Protection Agency (IEPA), Leaking Underground Storage Tank Section project manager at (217) 782-6761. You may also obtain a copy of the complete Illinois EPA file regarding the Maier's Grocery and Gas Store in Crossville, IL. To do so, you must submit a written request with your signature to:

Illinois Environmental Protection Agency
Bureau of Land - #24
Freedom of Information Act (FOIA) Officer
1021 North Grand Avenue East
Post Office Box 19276
Springfield, IL 62794-9276

When requesting a copy of the file, please reference the file heading shown below:

LPC #1930155021 – White County
Crossville/Martin and Bayley, Inc.
109 South State Street
LUST Incident No. 20091397

We the undersigned, as owner or representative of the property at 102 South Cross Street in Crossville, Illinois and the property currently occupied by The Green Onion Restaurant in Crossville, IL, **grant** permission to Applied Environmental Technologies, Inc. on behalf of Martin & Bayley, Inc. to conduct drilling and soil sampling on said property.

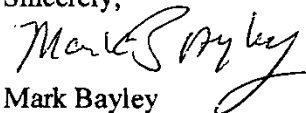
We the undersigned, as owner representative of the property at 102 South Cross Street in Crossville, Illinois and the property currently occupied by The Green Onion Restaurant in Crossville, IL, **do not grant** permission to Applied Environmental Technologies, Inc. on behalf of Martin & Bayley, Inc. to conduct drilling and soil sampling on said property.

Name: 

Mr. John Ackerman

Date: SEPT. 14, 2010

Sincerely,



Mark Bayley
Chairman, Martin and Bayley, Inc.

Exhibit H

I.E.M.A. INCIDENT NO. 20091397

SITE INVESTIGATION BUDGET
STAGE I

FOR

MAIER'S GROCERY
109 SOUTH STATE STREET
CROSSVILLE, IL 62827

September 9, 2010

SUBMITTED FOR:
MR. MARK BAYLEY
MARTIN & BAYLEY, INC.
P.O. BOX 385
CARMi, IL 62821

PREPARED BY:
APPLIED ENVIRONMENTAL TECHNOLOGIES, INC.
P.O. BOX 303
CARMi, IL 62821
618-382-8232

PROJECT NO. 1,512

Table of Contents

- 1.0 IEPA Budget Forms
- 2.0 Invoices
- 3.0 Owner/Operator/P.G. Budget Certification Form

1.0 IEPA Budget Forms



Illinois Environmental Protection Agency

Bureau of Land • 1021 N. Grand Avenue E. • P.O. Box 19276 • Springfield • Illinois • 62794-9276

General Information for the Budget and Billing Forms

LPC #: 1930155021 County: White

City: Crossville Site Name: Maier's Grocery

Site Address: 109 South State Street

IEMA Incident No.: 20091397

IEMA Notification Date: Dec 16, 2009

Date this form was prepared: Sep 9, 2010

This form is being submitted as a (check one, if applicable):

- Budget Proposal
- Budget Amendment (Budget amendments must include only the costs over the previous budget.)
- Billing Package

Please provide the name(s) and date(s) of report(s) documenting the costs requested:

Name(s): _____

Date(s): _____

This package is being submitted for the site activities indicated below:

35 III. Adm. Code 734:

- Early Action
- Free Product Removal after Early Action
- Site Investigation Stage 1: Stage 2: Stage 3:
- Corrective Action Actual Costs

35 III. Adm. Code 732:

- Early Action
- Free Product Removal after Early Action
- Site Classification
- Low Priority Corrective Action
- High Priority Corrective Action

35 III. Adm. Code 731:

- Site Investigation
- Corrective Action

IL 532 -2825
LPC 630 Rev. 1/2007

RECEIVED
SEP 17 2010
IEPA/BOL

General Information for the Budget and Billing Forms

The following address will be used as the mailing address for checks and any final determination letters regarding payment from the Fund.

Pay to the order of: Martin & Bayley, Inc.

Send in care of: Mr. Mark Bayley

Address: P.O. Box 385

City: Carmi

State: IL

Zip: 62821

The payee is the: Owner Operator (Check one or both.)

Mark Bayley
Signature of the owner or operator of the UST(s) (required)

W-9 must be submitted.
[Click here to print off a W-9 Form.](#)

Number of petroleum USTs in Illinois presently owned or operated by the owner or operator; any subsidiary, parent or joint stock company of the owner or operator; and any company owned by any parent, subsidiary or joint stock company of the owner or operator:

Fewer than 101: 101 or more:

Number of USTs at the site: 2 (Number of USTs includes USTs presently at the site and USTs that have been removed.)

Number of incidents reported to IEMA for this site: 1

Incident Numbers assigned to the site due to releases from USTs: 20091397

Please list all tanks that have ever been located at the site and tanks that are presently located at the site.

Product Stored in UST	Size (gallons)	Did UST have a release?	Incident No.	Type of Release Tank Leak / Overfill / Piping Leak
Gasoline	10,000	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	20091397	Overfill
Gasoline	10,000	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	20091397	Overfill
Gasoline/Diesel (Compartment)	12,000	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>		
		Yes <input type="checkbox"/> No <input type="checkbox"/>		
		Yes <input type="checkbox"/> No <input type="checkbox"/>		
		Yes <input type="checkbox"/> No <input type="checkbox"/>		
		Yes <input type="checkbox"/> No <input type="checkbox"/>		
		Yes <input type="checkbox"/> No <input type="checkbox"/>		

Add More Rows

Undo Last Add

Budget Summary

Choose the applicable regulation: 734 732

734	Free Product	Stage 1 Site Investigation	Stage 2 Site Investigation	Stage 3 Site Investigation	Corrective Action
Drilling and Monitoring Well Costs Form	\$	\$ 2,595.00	\$	\$	\$
Analytical Costs Form	\$	\$ 2,909.00	\$	\$	\$
Remediation and Disposal Costs Form	\$	\$	\$	\$	\$
UST Removal and Abandonment Costs Form	\$	\$	\$	\$	\$
Paving, Demolition, and Well Abandonment Costs Form	\$	\$	\$	\$	\$
Consulting Personnel Costs Form	\$	\$ 12,880.00	\$	\$	\$
Consultant's Materials Costs Form	\$	\$ 102.99	\$	\$	\$
Handling Charges Form	Handling charges will be determined at the time a billing package is submitted to the Illinois EPA. The amount of allowable handling charges will be determined in accordance with the Handling Charges Form.				
Total	\$	\$ 18,486.99	\$	\$	\$

Drilling and Monitoring Well Costs Form

1. Drilling

Number of Borings to Be Drilled	Type HSA/PUSH/ Injection	Depth (feet) of Each Boring	Total Feet Drilled	Reason for Drilling
5	PUSH	15.00	75.00	Stage I Site Investigation Drilling

Subpart H minimum payment amount applies.

	Total Feet	Rate per Foot (\$)	Total Cost (\$)
Total Feet via HSA:			
Total Feet via PUSH:	75.00	20.42	1,531.50
Total Feet for Injection via PUSH:			
Total Drilling Costs:			1,531.50

2. Monitoring / Recovery Wells

Number of Wells	Type of Well HSA / PUSH / 4" or 6" Recovery / 8" Recovery	Diameter of Well (inches)	Depth of Well (feet)	Total Feet of Wells to Be Installed (\$)
5	PUSH	2.00	15.00	75.00

Well Installation	Total Feet	Rate per Foot (\$)	Total Cost (\$)
Total Feet via HSA:			
Total Feet via PUSH:	75.00	14.18	1,063.50
Total Feet of 4" or 6" Recovery:			
Total Feet of 8" or Greater Recovery:			
Total Well Costs:			1,063.50

Total Drilling and Monitoring Well Costs:	\$2,595.00
--	-------------------

Analytical Costs Form

Laboratory Analysis	Number of Samples		Cost (\$) per Analysis		Total per Parameter
Chemical Analysis					
BETX Soil with MTBE EPA 8260	14	X	65.00	=	\$910.00
BETX Water with MTBE EPA 8260	5	X	50.00	=	\$250.00
COD (Chemical Oxygen Demand)		X		=	
Corrosivity		X		=	
Flash Point or Ignitability Analysis EPA 1010		X		=	
Fraction Organic Carbon Content (f _{oc}) ASTM-D 2974-00		X		=	
Fat, Oil, & Grease (FOG)		X		=	
LUST-Pollutants Soil - analysis must include volatile, base/neutral, polynuclear aromatics and metals list in Section 732 Appendix B and 734 Appendix B		X		=	
Dissolved Oxygen (DO)		X		=	
Paint Filter (Free Liquids)		X		=	
PCB / Pesticides (combination)		X		=	
PCBs		X		=	
Pesticides		X		=	
pH		X		=	
Phenol		X		=	
Polynuclear Aromatics PNA, or PAH SOIL EPA 8270		X		=	
Polynuclear Aromatics PNA, or PAH WATER EPA 8270		X		=	
Reactivity		X		=	
SVOC - Soil (Semi-Volatile Organic Compounds)		X		=	
SVOC - Water (Semi-Volatile Organic Compounds)		X		=	
TKN (Total Kjeldahl) "nitrogen"		X		=	
TPH (Total Petroleum Hydrocarbons)		X		=	
VOC (Volatile Organic Compounds) - Soil (Non-Aqueous)		X		=	
VOC (Volatile Organic Compounds) - Water		X		=	
TCLP Extraction Soil Samples	19	X	63.00	=	\$1,197.00
Total Organic Carbon Soil Sample	1	X	20.00	=	\$20.00
5035 Kits	19	X	10.00	=	\$190.00
		X		=	
		X		=	
Geo-Technical Analysis					
Soil Bulk Density (p _b) ASTM D2937-94	1	X	22.00	=	\$22.00
Ex-situ Hydraulic Conductivity / Permeability		X		=	
Moisture Content (w) ASTM D2216-92 / D4643-93	1	X	12.00	=	\$12.00
Porosity		X		=	
Rock Hydraulic Conductivity Ex-situ		X		=	
Sieve / Particle Size Analysis ASTM D422-63 / D1140-54		X		=	
Soil Classification ASTM D2488-90 / D2487-90		X		=	
Soil Particle Density (p _s) ASTM D854-92		X		=	
Specific Gravity Testing	1	X	70.00	=	\$70.00
		X		=	
		X		=	

Analytical Costs Form

Metals Analysis					
Soil preparation fee for Metals TCLP Soil (one fee per soil sample)		X		=	
Soil preparation fee for Metals Total Soil (one fee per soil sample)		X		=	
Water preparation fee for Metals Water (one fee per water sample)		X		=	
Arsenic TCLP Soil		X		=	
Arsenic Total Soil		X		=	
Arsenic Water		X		=	
Barium TCLP Soil		X		=	
Barium Total Soil		X		=	
Barium Water		X		=	
Cadmium TCLP Soil		X		=	
Cadmium Total Soil		X		=	
Cadmium Water		X		=	
Chromium TCLP Soil		X		=	
Chromium Total Soil		X		=	
Chromium Water		X		=	
Cyanide TCLP Soil		X		=	
Cyanide Total Soil		X		=	
Cyanide Water		X		=	
Iron TCLP Soil		X		=	
Iron Total Soil		X		=	
Iron Water		X		=	
Lead TCLP Soil	19	X	12.00	=	\$228.00
Lead Total Soil		X		=	
Lead Water		X		=	
Mercury TCLP Soil		X		=	
Mercury Total Soil		X		=	
Mercury Water		X		=	
Selenium TCLP Soil		X		=	
Selenium Total Soil		X		=	
Selenium Water		X		=	
Silver TCLP Soil		X		=	
Silver Total Soil		X		=	
Silver Water		X		=	
Metals TCLP Soil (a combination of all metals) RCRA		X		=	
Metals Total Soil (a combination of all metals) RCRA		X		=	
Metals Water (a combination of all metals) RCRA		X		=	
Metals prep fee per set	1	X	10.00	=	\$10.00
		X		=	
		X		=	
		X		=	
Other					
EnCore® Sampler, purge-and-trap sampler, or equivalent sampling device		X		=	
Sample Shipping per sampling event ¹		X		=	

¹A sampling event, at a minimum, is all samples (soil and groundwater) collected in a calendar day.

Total Analytical Costs: \$ 2,909.00

Consulting Personnel Costs Form

Employee Name	Personnel Title	Hours	Rate* (\$)	Total Cost
Remediation Category	Task			
Bryan Williams	Project Manager	10.00	90.00	\$900.00
Stage 1-Field	Travel to site, perform site investigation drilling, sampling, return travel.			
John Marks	Scientist III	10.00	70.00	\$700.00
Stage 1-Field	Assist Project Manager with site investigation drilling & sampling.			
John Marks	Scientist III	1.00	70.00	\$70.00
	Package & ship samples.			
Bryan Williams	Project Manager	8.00	90.00	\$720.00
Stage 1-Field	Mobilization, measure depth to groundwater, survey wells, purge, sample, slug test.			
John Marks	Scientist III	8.00	70.00	\$560.00
Stage 1-Field	Assist Project Manager with surveying, purge, sample, slug test.			
John Marks	Scientist III	1.00	70.00	\$70.00
	Package & ship samples.			
Bryan Williams	Project Manager	10.00	90.00	\$900.00
	Preparation of Stage 1 Site Investigation Budget.			
Christy Churchwell	Administrative Assistant IV	2.00	40.00	\$80.00
	Copy, bind & mail Stage 1 Site Investigation Budget.			
Bryan Williams	Project Manager	8.00	90.00	\$720.00
Stage 1-Pay	Preparation of Stage 1 Site Investigation Billing Application.			

Employee Name	Personnel Title	Hours	Rate* (\$)	Total Cost
Remediation Category	Task			
Bryan Williams	Senior Prof. Geologist	2.00	120.00	\$240.00
Stage 1-Pay	Review, edit & certify Stage 1 Site Investigation Billing Application.			
Christy Churchwell	Administrative Assistant IV	2.00	40.00	\$80.00
Stage 1-Pay	Copy, bind and mail Stage 1 Site Investigation Billing Application.			
Bryan Williams	Project Manager	60.00	90.00	\$5,400.00
Stage 2-Plan	Prepare Stage II / III Site Investigation Plan & Budget.			
John Marks	Scientist III	16.00	70.00	\$1,120.00
Stage 2-Plan	Prepare maps, boring logs, exhibits, slug test for Stage II / III Site Investigation Plan & Budget.			
Christy Churchwell	Administrative Assistant IV	8.00	40.00	\$320.00
Stage 2-Plan	Copy, check pages, package & mail Stage II / III Site Investigation Plan & Budget.			
Bryan Williams	Senior Prof. Geologist	2.00	120.00	\$240.00
Stage 2-Plan	Review, edit & certify Stage II / III Site Investigation Plan & Budget.			
Bryan Williams	Senior Prof. Geologist	4.00	120.00	\$480.00
	Meet with operator and go over contamination.			
John Marks	Scientist III	4.00	70.00	\$280.00
	Go to Supervisor of Assessments office & get off-site property owner information.			
John Marks cont.	Scientist III			
	Prepare access agreements.			

*Refer to the applicable Maximum Payment Amounts document.

Total of Consulting Personnel Costs	\$12,880.00
--	--------------------

Consultant's Materials Costs Form

Materials, Equipment, or Field Purchase	Time or Amount Used	Rate (\$)	Unit	Total Cost
Remediation Category	Description/Justification			
Project Manager Mileage	28.00	.50	mile	\$14.00
Stage 1-Field				
Ice	1.00	9.97	ea	\$9.97
	For sample shipment.			
Ice	1.00	3.32	ea	\$3.32
	For sample shipment.			
Shipping	1.00	5.70	ea	\$5.70
	Ship soil samples to Holcomb Foundation Engineering Co., Inc.			
Survey Equipment	1.00	25.00		\$25.00
Stage 1-Field	1 Day rental			
Solinst Water Level Indicator	1.00	25.00	day	\$25.00
Stage 1-Field	1 Day Rental			
FID	1.00	20.00	day	\$20.00
Stage 1-Field	1 Day Rental			

Total of Consultant Materials Costs	\$102.99
--	-----------------

Donna
After carefully monitoring our time in completion
of these projects we have

Justification Sheet.

60 hrs. ^{Stage II/III Plan/Budget}
Report Preparation Project Manager

- Narrative and research information for narrative.
- Analytical Summary tables
- Slug test calculations
- draft maps of soil/groundwater contamination
- calculate and map groundwater flow
- Obtain SWAP, ES65, ESWS, contact water department superintendent, contact health department. Review data for geology, wells, setbacks.
- Prepare budget forms. Check costs.

16 hrs. Exhibit Preparation

- CAD Drafting of all site maps, cross sections, boring logs, monitoring well diagrams.

Additional Tasks:

Correspondence with owner/operator explain findings,
Research off site property owners, ^{contact} ~~prepare~~ them,
Prepare and mail Prop Access Agreements. Negotiate
drill locations. Provide data to off site owners
Travel to site and pre mark ~~site~~ boring locations
for July.

2.0 Invoices

Maximum Payment Amounts July 1, 2010 through June 30, 2011

	<u>Maximum Total Amount</u>
Drilling:	
Hollow-stem auger	\$26.09 per foot
Direct-push platform for sampling or other non-injection	\$20.42 per foot
Direct-push platform for injection	\$17.02 per foot
<p>If the costs associated with a round of drilling are less than \$1,361.47 for direct-push platform or \$1,701.83 for hollow-stem auger, a charge of \$1,361.47 or \$1,701.83, respectively, can be requested.</p>	
Monitoring / Recovery Wells:	
Monitoring well installation via hollow-stem auger	\$18.72 per foot
Monitoring well installation via direct-push platform	\$14.18 per foot
4" or 6" recovery well installation	\$28.36 per foot
8" or greater recovery well installation	\$46.52 per foot
Monitoring well abandonment	\$11.35 per foot
Excavation, Transportation, and Disposal of Contaminated Soil:	\$64.67 per cubic yard
Backfilling the Excavation:	\$22.69 per cubic yard
Overburden Removal and Replacement:	\$7.37 per cubic yard
Groundwater or Free Product Removal and Disposal (per round):	\$0.77 per gallon
<p>If the removal, transportation, and disposal costs associated with each round of free product removal via hand bailing or a vacuum truck are less than \$226.91, a charge of \$226.91 may be requested. If the removal, transportation, and disposal costs associated with each round of groundwater removal via hand bailing or a vacuum truck are less than \$226.91, a charge of \$226.91 may be requested.</p>	
Drum Disposal:	
Purchase, transportation, and disposal of drum of solid waste	\$283.64 per drum
Purchase, transportation, and disposal of drum of liquid waste	\$170.18 per drum
<p>If the costs associated with the purchase, transportation, and disposal of 55-gallon drums containing waste (solid and liquid) are less than \$567.28, a charge of \$567.28 may be requested.</p>	
UST Abandonment or Removal:	
UST volume 110 to 999 gallons	\$2,382.57 per UST
UST volume 1,000 to 14,999 gallons	\$3,573.85 per UST
UST volume ≥15,000 gallons	\$4,651.68 per UST
Replacement of Concrete, Asphalt, and Paving:	
asphalt @ 2" depth: \$1.87 per square foot	asphalt @ 3" depth: \$2.11 per square foot
asphalt @ 4" depth: \$2.70 per square foot	asphalt @ 6" depth: \$3.49 per square foot
concrete @ 2" depth: \$2.78 per square foot	concrete @ 3" depth: \$3.32 per square foot
concrete @ 4" depth: \$3.87 per square foot	concrete @ 5" depth: \$4.41 per square foot
concrete @ 6" depth: \$4.95 per square foot	concrete @ 8" depth: \$6.02 per square foot
Concrete, Asphalt, and Paving Installed as of an Engineered Barrier:	
asphalt @ 2" depth: \$1.87 per square foot	asphalt @ 3" depth: \$2.11 per square foot
asphalt @ 4" depth: \$2.70 per square foot	concrete @ any depth: \$2.70 per square foot
Destruction or Dismantling and Reassembly of Above Grade Structures: \$10,000.00 per site	

Maximum Payment Amounts July 1, 2010 through June 30, 2011

Personnel Titles and Requirements

Title	Degree Required	Ill. License Required	Minimum Yrs. Experience	Maximum Hourly Rate
Engineer I	Bachelor's in Engineering	None	0	\$85.09
Engineer II	Bachelor's in Engineering	None	2	\$96.44
Engineer III	Bachelor's in Engineering	None	4	\$113.46
Professional Engineer	Bachelor's in Engineering	P.E.	4	\$124.80
Senior Prof. Engineer	Bachelor's in Engineering	P.E.	8	\$147.49
Geologist I	Bachelor's in Geology or Hydrogeology	None	0	\$79.42
Geologist II	Bachelor's in Geology or Hydrogeology	None	2	\$85.09
Geologist III	Bachelor's in Geology or Hydrogeology	None	4	\$99.84
Professional Geologist	Bachelor's in Geology or Hydrogeology	P.G.	4	\$104.38
Senior Prof. Geologist	Bachelor's in Geology or Hydrogeology	P.G.	8	\$124.80
Scientist I	Bachelor's in a Natural or Physical Science	None	0	\$68.07
Scientist II	Bachelor's in a Natural or Physical Science	None	2	\$73.75
Scientist III	Bachelor's in a Natural or Physical Science	None	4	\$79.42
Scientist IV	Bachelor's in a Natural or Physical Science	None	6	\$85.09
Senior Scientist	Bachelor's in a Natural or Physical Science	None	8	\$96.44
Project Manager	None	None	8 ¹	\$102.11
Senior Project Manager	None	None	12 ¹	\$113.46
Technician I	None	None	0	\$51.05
Technician II	None	None	2 ¹	\$56.73
Technician III	None	None	4 ¹	\$62.04
Technician IV	None	None	6 ¹	\$68.07
Senior Technician	None	None	8 ¹	\$73.75
Account Technician I	None	None	0	\$39.71
Account Technician II	None	None	2 ²	\$45.38
Account Technician III	None	None	4 ²	\$51.05
Account Technician IV	None	None	6 ²	\$56.73
Senior Acct. Technician	None	None	8 ²	\$62.40
Administrative Assistant I	None	None	0	\$28.36
Administrative Assistant II	None	None	2 ³	\$34.04
Administrative Assistant III	None	None	4 ³	\$39.71
Administrative Assistant IV	None	None	6 ³	\$45.38
Senior Admin. Assistant	None	None	8 ³	\$51.05
Draftperson/CAD I	None	None	0	\$45.38
Draftperson/CAD II	None	None	2 ⁴	\$51.05
Draftperson/CAD III	None	None	4 ⁴	\$56.73
Draftperson/CAD IV	None	None	6 ⁴	\$62.40
Senior Draftperson/CAD	None	None	8 ⁴	\$68.07

¹ Equivalent work-related or college level education with significant coursework in the physical, life, or environmental sciences can be substituted for all or part of the specified experience requirements.

² Equivalent work-related or college level education with significant coursework in accounting or business can be substituted for all or part of the specified experience requirements.

³ Equivalent work-related or college level education with significant coursework in administrative or secretarial services can be substituted for all or part of the specified experience requirements.

⁴ Equivalent work-related or college level education with significant coursework in drafting or computer aided design (CAD) can be substituted for all or part of the specified experience requirements.

Maximum Payment Amounts July 1, 2010 through June 30, 2011

Laboratory Rates Per Analysis Chemical	Maximum	Metals	Maximum
BETX Soil with MTBE	\$96.44	Soil preparation for Metals TCLP Soil (one fee per sample)	\$89.63
BETX Water with MTBE	\$91.90	Soil preparation for Metals Total Soil (one fee per sample)	\$18.15
COD (Chemical Oxygen Demand)	\$34.04	Water preparation for Metals Water (one fee per sample)	\$12.48
Corrosivity	\$17.02	Arsenic TCLP Soil	\$18.15
Flash Point or Ignitability Analysis EPA 1010	\$37.44	Arsenic Total Soil	\$18.15
FOC (Fraction Organic Carbon)	\$43.11	Arsenic Water	\$20.42
Fat, Oil, & Grease (FOG)	\$68.07	Barium TCLP Soil	\$11.35
LUST Pollutants Soil - analysis must include all volatile, base/neutral, polynuclear aromatic and metal parameters list in Section 732.Appendix B and 734.Appendix B	\$786.25	Barium Total Soil	\$11.35
Organic Carbon (ASTM-D 2974-87)	\$37.44	Barium Water	\$13.61
Dissolved Oxygen (DO)	\$27.23	Cadmium TCLP Soil	\$18.15
Paint Filter (Free Liquids)	\$15.88	Cadmium Total Soil	\$18.15
PCB / Pesticides (combination)	\$251.87	Cadmium Water	\$20.42
PCBs	\$125.94	Chromium TCLP Soil	\$11.35
Pesticides	\$158.84	Chromium Total Soil	\$11.35
pH	\$15.88	Chromium Water	\$13.61
Phenol	\$38.57	Cyanide TCLP Soil	\$31.77
Polynuclear Aromatics PNA, or PAH SOIL	\$172.45	Cyanide Total Soil	\$38.57
Polynuclear Aromatics PNA, or PAH WATER	\$172.45	Cyanide Water	\$38.57
Reactivity	\$77.15	Iron TCLP Soil	\$11.35
SVOC - Soil (Semi-Volatile Organic Compounds)	\$355.12	Iron Total Soil	\$11.35
SVOC - Water (Semi-Volatile Organic Compounds)	\$355.12	Iron Water	\$13.61
TKN (Total Kjeldahl) "nitrogen"	\$49.92	Lead TCLP Soil	\$18.15
TOC (Total Organic Carbon) EPA 9060A	\$35.17	Lead Total Soil	\$18.15
TPH (Total Petroleum Hydrocarbons)	\$138.42	Lead Water	\$20.42
VOC (Volatile Organic Compound) - Soil (Non-Aqueous)	\$198.55	Mercury TCLP Soil	\$21.56
VOC (Volatile Organic Compound) - Water	\$191.74	Mercury Total Soil	\$11.35
Geo-Technical		Mercury Water	\$29.50
Bulk Density ASTM D4292 / D2937	\$24.96	Selenium TCLP Soil	\$18.15
Ex-situ Hydraulic Conductivity / Permeability	\$289.31	Selenium Total Soil	\$18.15
Moisture Content ASTM D2216-90 / D4643-87	\$13.61	Selenium Water	\$17.02
Porosity	\$34.04	Silver TCLP Soil	\$11.35
Rock Hydraulic Conductivity Ex-situ	\$397.09	Silver Total Soil	\$11.35
Sieve / Particle Size Analysis ASTM D422-63 / D1140-54	\$164.51	Silver Water	\$13.61
Soil Classification ASTM D2488-90 / D2487-90	\$77.15	Metals TCLP Soil (a combination of all RCRA metals)	\$116.86
Other		Metals Total Soil (a combination of all RCRA metals)	\$106.65
EnCore® Sampler, purge-and-trap sampler, or equivalent sampling device	\$11.35	Metals Water (a combination of all RCRA metals)	\$135.01
Sample Shipping (*maximum total amount for shipping all samples collected in a calendar day)	*\$56.73		

APPLIED ENVIRONMENTAL TECHNOLOGIES, INC.

Bryan K. Williams
Professional Geologist/President

P.O. Box 303
Carmi, IL 62821
Bus. 618-382-8232
Fax 618-382-2462
Home 618-384-3601

INVOICE

July 27, 2010

Martin & Bayley, Inc.
Mr. Mark Bayley
P.O. Box 385
Carmi, IL 62821

Draft

IEMA Incident No. 20091397, Maier's Grocery
RE: Perform Stage 1 Site Investigation Drilling.

Invoice No. 9001790

Project Manager

06/02/10	10 hours	\$90.00/hr	\$ 900.00	Travel to site, perform site investigation drilling, sampling, return travel.
----------	----------	------------	-----------	---

Scientist III

06/02/10	10 hours	\$70.00/hr	\$ 700.00	Assist Project Manager with site investigation drilling & sampling.
06/03/10	1 hour	\$70.00/hr	\$ 70.00	Package & ship samples.

Advanced Environmental Drilling & Contracting, Inc.

Drilling & Sampling	75 ft	\$20.42/ft	\$ 1,531.50
Monitoring well installation	75 ft	\$14.18/ft	\$ 1,063.50

Analytical Testing

Fourteen (14) TCLP Extraction Soil Samples @ \$63.00 ea	\$ 882.00
One (1) Total Organic Carbon Soil Sample @ \$20.00	\$ 20.00
Fourteen (14) BTEX, MTBE Soil Samples @ \$65.00 ea	\$ 910.00
Fourteen (14) TCLP Lead Soil Samples @ \$12.00 ea	\$ 168.00
Fourteen (14) 5035 Kits @ \$10.00 ea	\$ 140.00

Holcomb Foundation Engineering Co., Inc.

\$ 12.00	Moisture Content Determinations
\$ 22.00	Bulk Density Test
\$ 70.00	Specific Gravity Testing

Miscellaneous Costs

06/02/10	14 miles	\$0.50/mile	\$ 7.00	Project Manager Mileage
06/03/10			\$ 9.97	Ice for sample shipment
06/03/10			\$ 5.70	Ship soil samples to Holcomb Foundation Engineering Co., Inc.
			\$ 20.00	FID Meter

Balance Due \$ 6,531.67

Please pay within 14 days. Past Due accounts will be charged interest at the maximum rate allowed by law, 2.0% per month. Unpaid invoices submitted for collection will be subject to collection fees and attorney fees.

APPLIED ENVIRONMENTAL TECHNOLOGIES, INC.

Bryan K. Williams
Professional Geologist/President

P.O. Box 303
Carmi, IL 62821
Bus. 618-382-8232
Fax 618-382-2462
Home 618-384-3601

INVOICE

July 27, 2010

Martin & Bayley, Inc.
Mr. Mark Bayley
P.O. Box 385
Carmi, IL 62821

Draft

HEMA incident No. 20091397, Maier's Grocery
RE: Sample wells. Stage 1 Site Investigation.

Invoice No. 9001791

Project Manager

06/30/10	8 hours	\$90.00/hr	\$ 720.00	Mobilization, measure depth to groundwater, survey wells, purge, sample, slug test.
----------	---------	------------	-----------	---

Environmental Scientist

06/30/10	8 hours	\$70.00/hr	\$ 560.00	Assist project manager with surveying, purge, sample, slug test.
----------	---------	------------	-----------	--

07/01/10	1 hour	\$70.00/hr	\$ 70.00	Package & ship samples.
----------	--------	------------	----------	-------------------------

Analytical Testing

Five (5) BTEX, MTBE Groundwater Samples @ \$50.00 ea	\$ 250.00	8021 Method
Five (5) TCLP Extraction Soil Samples @ \$63.00 ea	\$ 315.00	
Five (5) TCLP Lead Samples @ \$12.00 ea	\$ 60.00	
Metals Prep Fee per set	\$ 10.00	
Five (5) 5035 Kits @ \$10.00 ea	\$ 50.00	

Miscellaneous Costs

06/30/10	14 miles	\$0.50/mile	\$ 7.00	Project Manager Mileage
07/01/10			\$ 3.32	ice for sample shipment
			\$ 25.00	Survey Equipment - 1 Day Rental
			\$ 25.00	Solinst Water Level Indicator

Balance Due \$ 2,095.32

Please pay within 14 days. Past Due accounts will be charged interest at the maximum rate allowed by law. 2.0% per month. Unpaid invoices submitted for collection will be subject to collection fees and attorney fees.

APPLIED ENVIRONMENTAL TECHNOLOGIES, INC.

Bryan K. Williams
Professional Geologist/President

P.O. Box 303
Carmi, IL 62821
Bus. 618-382-8232
Fax 618-382-2462
Home 618-384-3601

INVOICE

September 16, 2010

Martin & Bayley, Inc.
Mr. Mark Bayley
P.O. Box 385
Carmi, IL 62821

Draft

IEMA Incident No. 20091397, Maier's Grocery

RE: Preparation of Stage 1 Site Investigation Budget.

Invoice No. 9001793

Project Manager

7/28/10	4 hours	\$90.00/hr	\$ 360.00	Preparation of Stage 1 Site Investigation Budget.
8/16/10	4 hours	\$90.00/hr	\$ 360.00	Preparation of Stage 1 Site Investigation Budget.
9/9/10	2 hours	\$90.00/hr	\$ 180.00	Preparation of Stage 1 Site Investigation Budget.

Administrative Assistant IV

9/16/10	2 hours	\$ 40.00	\$ 80.00	Copy, bind & mail Stage 1 Site Investigation Budget.
---------	---------	----------	----------	--

Balance Due \$ 980.00

Please pay within 14 days. Past Due accounts will be charged interest at the maximum rate allowed by law. 2.0% per month. Unpaid invoices submitted for collection will be subject to collection fees and attorney fees.

APPLIED ENVIRONMENTAL TECHNOLOGIES, INC.

Bryan K. Williams
Professional Geologist/President

P.O. Box 303
Carmi, IL 62821
Bus. 618-382-8232
Fax 618-382-2462
Home 618-384-3601

INVOICE

Martin & Bayley, Inc.
Mr. Mark Bayley
P.O. Box 385
Carmi, IL 62821

Draft

IEMA Incident No. 20091397, Maier's Grocery
RE: Preparation of Stage 1 Site Investigation Billing Application.

Invoice No. 9001792

<u>Project Manager</u>	8 hours	\$90.00/hr	\$ 720.00	Preparation of Stage 1 Site Investigation Billing Application.
<u>Senior Professional Geologist</u>	2 hours	\$120.00/hr	\$ 240.00	Review, edit & certify Stage 1 Site Investigation Billing Application.
<u>Administrative Assistant IV</u>	2 hours	\$40.00/hr	\$ 80.00	Copy, bind and mail Stage 1 Site Investigation Billing Application.

Balance Due \$ 1,040.00

Please pay within 14 days. Past Due accounts will be charged interest at the maximum rate allowed by law. 2.0% per month. Unpaid invoices submitted for collection will be subject to collection fees and attorney fees.

APPLIED ENVIRONMENTAL TECHNOLOGIES, INC.

Bryan K. Williams
Professional Geologist/President

P.O. Box 303
Carmi, IL 62821
Bus. 618-382-8232
Fax 618-382-2462
Home 618-384-3601

INVOICE

September 16, 2010

Martin & Bayley, Inc.
Mr. Mark Bayley
P.O. Box 385
Carmi, IL 62821

Draft

HEMA Incident No. 20091397, Maier's Grocery
RE: Preparation of Stage II / III Site Investigation Plan & Budget.

Invoice No. 9001813

Project Manager

8/18/10	4 hours	\$90.00/hr	\$ 360.00	Prepare Stage II Site Investigation Plan & Budget.
8/19/10	6 hours	\$90.00/hr	\$ 540.00	Prepare Stage II Site Investigation Plan & Budget.
8/23/10	8 hours	\$90.00/hr	\$ 720.00	Prepare Stage II Site Investigation Plan & Budget.
8/24/10	8 hours	\$90.00/hr	\$ 720.00	Prepare Stage II Site Investigation Plan & Budget.
8/25/10	8 hours	\$90.00/hr	\$ 720.00	Prepare Stage II Site Investigation Plan & Budget.
8/26/10	6 hours	\$90.00/hr	\$ 540.00	Prepare Stage II Site Investigation Plan & Budget.
8/27/10	4 hours	\$90.00/hr	\$ 360.00	Prepare Stage II Site Investigation Plan & Budget.
8/30/10	6 hours	\$90.00/hr	\$ 540.00	Prepare Stage II Site Investigation Plan & Budget.
9/1/10	2 hours	\$90.00/hr	\$ 180.00	Prepare Stage II Site Investigation Plan & Budget.
9/2/10	2 hours	\$90.00/hr	\$ 180.00	Prepare Stage II Site Investigation Plan & Budget.
9/10/10	6 hours	\$90.00/hr	\$ 540.00	Prepare Stage II Site Investigation Plan & Budget.

Senior Professional Geologist

9/15/10	4 hours	\$120.00/hr	\$ 480.00	Meet with operator and go over contamination.
	2 hours	\$120.00/hr	\$ 240.00	Review, edit & certify Stage II / III Site Investigation Plan & Budget.

Scientist III

7/12/10	4 hours	\$70.00/hr	\$ 280.00	Prepare maps, boring logs, exhibits, slug test for Stage II / III Site Investigation Plan & Budget.
8/16/10	4 hours	\$70.00/hr	\$ 280.00	Go to Supervisor of Assessments office & get off-site property owner information.
8/24/10	8 hours	\$70.00/hr	\$ 560.00	Prepare maps, boring logs, exhibits, slug test for Stage II / III Site Investigation Plan & Budget.
9/9/10	4 hours	\$70.00/hr	\$ 280.00	Prepare maps, boring logs, exhibits, slug test for Stage II / III Site Investigation Plan & Budget.

Administrative Assistant IV

9/16/10	8 hours	\$40.00/hr	\$ 320.00	Copy, check pages, package & mail Stage II / III Site Investigation Plan & Budget.
---------	---------	------------	-----------	--

Balance Due \$ 7,840.00

Please pay within 14 days. Past Due accounts will be charged interest at the maximum rate allowed by law. 2.0% per month. Unpaid invoices submitted for collection will be subject to collection fees and attorney fees.

3.0 Owner/Operator/P.G. Budget Certification Form

Owner/Operator and Licensed Professional Engineer/Geologist Budget Certification Form

I hereby certify that I intend to seek payment from the UST Fund for costs incurred while performing corrective action activities for Leaking UST incident 20091397. I further certify that the costs set forth in this budget are for necessary activities and are reasonable and accurate to the best of my knowledge and belief. I also certify that the costs included in this budget are not for corrective action in excess of the minimum requirements of 415 ILCS 5/57, no costs are included in this budget that are not described in the corrective action plan, and no costs exceed Subpart H: Maximum Payment Amounts, Appendix D Sample Handling and Analysis amounts, and Appendix E Personnel Titles and Rates of 35 Ill. Adm. Code 732 or 734. I further certify that costs ineligible for payment from the Fund pursuant to 35 Ill. Adm. Code 732.606 or 734.630 are not included in the budget proposal or amendment. Such ineligible costs include but are not limited to:

- Costs associated with ineligible tanks.
- Costs associated with site restoration (e.g., pump islands, canopies).
- Costs associated with utility replacement (e.g., sewers, electrical, telephone, etc.).
- Costs incurred prior to IEMA notification.
- Costs associated with planned tank pulls.
- Legal fees or costs.
- Costs incurred prior to July 28, 1989.
- Costs associated with installation of new USTs or the repair of existing USTs.

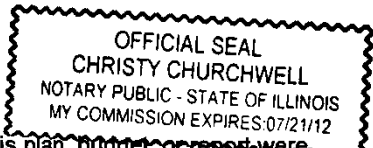
Owner/Operator: Martin & Bayley, Inc.

Authorized Representative: Mr. Mark Bayley Title: Chairman

Signature: Mark Bayley Date: 9/15/10

Subscribed and sworn to before me the 15th day of September, 2010

Christy Churchwell
(Notary Public) Seal:



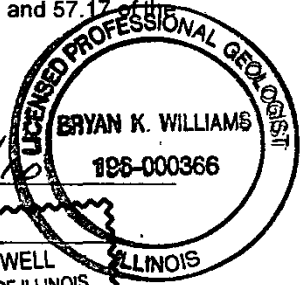
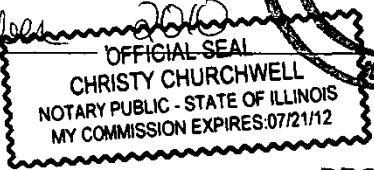
In addition, I certify under penalty of law that all activities that are the subject of this plan, budget, or report were conducted under my supervision or were conducted under the supervision of another Licensed Professional Engineer or Licensed Professional Geologist and reviewed by me; that this plan, budget, or report and all attachments were prepared under my supervision; that, to the best of my knowledge and belief, the work described in the plan, budget, or report has been completed in accordance with the Environmental Protection Act [415 ILCS 5], 35 Ill. Adm. Code 732 or 734, and generally accepted standards and practices of my profession; and that the information presented is accurate and complete. I am aware there are significant penalties for submitting false statements or representations to the Illinois EPA, including but not limited to fines, imprisonment, or both as provided in Sections 44 and 57.17 of the Environmental Protection Act [415 ILCS 5/44 and 57.17].

L.P.E./L.P.G.: Bryan Williams L.P.E./L.P.G. Seal:

L.P.E./L.P.G. Signature: Bryan Williams Date: 9/15/10

Subscribed and sworn to before me the 15th day of September, 2010

Christy Churchwell
(Notary Public) Seal:



The Illinois EPA is authorized to require this information under 415 ILCS 5/1. Disclosure of this information is required. Failure to do so may result in the delay or denial of any budget or payment requested hereunder.

RECEIVED
SEP 17 2010
IEPA/BOL

Exhibit I

General Information for the Budget and Billing Forms

LPC #: 1930155021 County: White

City: Crossville Site Name: Maier's Grocery

Site Address: 109 South State Street

IEMA Incident No.: 20091397

IEMA Notification Date: Dec 16, 2009

Date this form was prepared: Sep 13, 2010

This form is being submitted as a (check one, if applicable):

- Budget Proposal
- Budget Amendment (Budget amendments must include only the costs over the previous budget.)
- Billing Package

Please provide the name(s) and date(s) of report(s) documenting the costs requested:

Name(s): _____

Date(s): _____

This package is being submitted for the site activities indicated below:

35 III. Adm. Code 734:

- Early Action
- Free Product Removal after Early Action
- Site Investigation Stage 1: Actual Costs Stage 2: Proposed Stage 3: Proposed
- Corrective Action

35 III. Adm. Code 732:

- Early Action
- Free Product Removal after Early Action
- Site Classification
- Low Priority Corrective Action
- High Priority Corrective Action

35 III. Adm. Code 731:

- Site Investigation
- Corrective Action

**RECEIVED
SEP 17 2010
IEPA/BOL**

General Information for the Budget and Billing Forms

The following address will be used as the mailing address for checks and any final determination letters regarding payment from the Fund.

Pay to the order of: Martin and Bayley, Inc.

Send in care of: Mr. Mark Bayley, Chairman

Address: P.O. Box 385

City: Carmi State: Illinois Zip: 62821

The payee is the: Owner Operator (Check one or both.)

Mark Bayley
Signature of the owner or operator of the UST(s) (required)

W-9 must be submitted.
[Click here to print off a W-9 Form.](#)

Number of petroleum USTs in Illinois presently owned or operated by the owner or operator; any subsidiary, parent or joint stock company of the owner or operator; and any company owned by any parent, subsidiary or joint stock company of the owner or operator:

Fewer than 101: 101 or more:

Number of USTs at the site: 3 (Number of USTs includes USTs presently at the site and USTs that have been removed.)

Number of incidents reported to IEMA for this site: 1

Incident Numbers assigned to the site due to releases from USTs: 20091397

Please list all tanks that have ever been located at the site and tanks that are presently located at the site.

Product Stored in UST	Size (gallons)	Did UST have a release?	Incident No.	Type of Release Tank Leak / Overfill / Piping Leak
Gasoline	10,000	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	20091397	Overfill
Gasoline	10,000	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	20091397	Overfill
Gasoline/Diesel (Compartment.)	12,000	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>		
		Yes <input type="checkbox"/> No <input type="checkbox"/>		
		Yes <input type="checkbox"/> No <input type="checkbox"/>		
		Yes <input type="checkbox"/> No <input type="checkbox"/>		
		Yes <input type="checkbox"/> No <input type="checkbox"/>		
		Yes <input type="checkbox"/> No <input type="checkbox"/>		

Add More Rows Undo Last Add

Budget Summary

Choose the applicable regulation: 734 732

734	Free Product	Stage 1 Site Investigation	Stage 2 Site Investigation	Stage 3 Site Investigation	Corrective Action
Drilling and Monitoring Well Costs Form	\$	\$	\$ 3,633.00	\$	\$
Analytical Costs Form	\$	\$	\$ 1,656.47	\$	\$
Remediation and Disposal Costs Form	\$	\$	\$ 567.28	\$	\$
UST Removal and Abandonment Costs Form	\$	\$	\$.00	\$	\$
Paving, Demolition, and Well Abandonment Costs Form	\$	\$	\$.00	\$	\$
Consulting Personnel Costs Form	\$	\$	\$ 21,144.70	\$	\$
Consultant's Materials Costs Form	\$	\$	\$ 268.40	\$	\$
Handling Charges Form	Handling charges will be determined at the time a billing package is submitted to the Illinois EPA. The amount of allowable handling charges will be determined in accordance with the Handling Charges Form.				
Total	\$	\$	\$ 27,269.85	\$	\$

Drilling and Monitoring Well Costs Form

1. Drilling

Number of Borings to Be Drilled	Type HSA/PUSH/ Injection	Depth (feet) of Each Boring	Total Feet Drilled	Reason for Drilling
7	PUSH	15.00	105.00	Stage II-III Investigation

Subpart H minimum payment amount applies.

	Total Feet	Rate per Foot (\$)	Total Cost (\$)
Total Feet via HSA:			
Total Feet via PUSH:	105.00	20.42	2,144.10
Total Feet for Injection via PUSH:			
Total Drilling Costs:			2,144.10

2. Monitoring / Recovery Wells

Number of Wells	Type of Well HSA / PUSH / 4" or 6" Recovery / 8" Recovery	Diameter of Well (inches)	Depth of Well (feet)	Total Feet of Wells to Be Installed (\$)
7	PUSH	2.00	15.00	105.00

Well Installation	Total Feet	Rate per Foot (\$)	Total Cost (\$)
Total Feet via HSA:			
Total Feet via PUSH:	105.00	14.18	1,488.90
Total Feet of 4" or 6" Recovery:			
Total Feet of 8" or Greater Recovery:			
Total Well Costs:			1,488.90

Total Drilling and Monitoring Well Costs:	\$3,633.00
--	-------------------

Analytical Costs Form

Laboratory Analysis	Number of Samples		Cost (\$) per Analysis		Total per Parameter
Chemical Analysis					
BETX Soil with MTBE EPA 8260	7	X	96.44	=	\$675.08
BETX Water with MTBE EPA 8260	7	X	91.90	=	\$643.30
COD (Chemical Oxygen Demand)		X		=	
Corrosivity		X		=	
Flash Point or Ignitability Analysis EPA 1010		X		=	
Fraction Organic Carbon Content (f _{OC}) ASTM-D 2974-00		X		=	
Fat, Oil, & Grease (FOG)		X		=	
EUST Pollutants Soil - analysis must include volatile, base/neutral, polynuclear aromatics and metals list in Section 732 Appendix B and 734 Appendix B		X		=	
Dissolved Oxygen (DO)		X		=	
Paint Filter (Free Liquids)		X		=	
PCB / Pesticides (combination)		X		=	
PCBs		X		=	
Pesticides		X		=	
pH		X		=	
Phenol		X		=	
Polynuclear Aromatics PNA, or PAH SOIL EPA 8270		X		=	
Polynuclear Aromatics PNA, or PAH WATER EPA 8270		X		=	
Reactivity		X		=	
SVOC - Soil (Semi-Volatile Organic Compounds)		X		=	
SVOC - Water (Semi-Volatile Organic Compounds)		X		=	
TKN (Total Kjeldahl) "nitrogen"		X		=	
TPH (Total Petroleum Hydrocarbons)		X		=	
VOC (Volatile Organic Compounds) - Soil (Non-Aqueous)		X		=	
VOC (Volatile Organic Compounds) - Water		X		=	
		X		=	
		X		=	
		X		=	
		X		=	
		X		=	
Geo-Technical Analysis					
Soil Bulk Density (p _b) ASTM D2937-94		X		=	
Ex-situ Hydraulic Conductivity / Permeability		X		=	
Moisture Content (w) ASTM D2216-92 / D4643-93		X		=	
Porosity		X		=	
Rock Hydraulic Conductivity Ex-situ		X		=	
Sieve / Particle Size Analysis ASTM D422-63 / D1140-54		X		=	
Soil Classification ASTM D2488-90 / D2487-90		X		=	
Soil Particle Density (p _s) ASTM D854-92		X		=	
		X		=	
		X		=	
		X		=	

Analytical Costs Form

Metals Analysis					
Soil preparation fee for Metals TCLP Soil (one fee per soil sample)	2	X	89.63	=	\$179.26
Soil preparation fee for Metals Total Soil (one fee per soil sample)		X		=	
Water preparation fee for Metals Water (one fee per water sample)	2	X	12.48	=	\$24.96
Arsenic TCLP Soil		X		=	
Arsenic Total Soil		X		=	
Arsenic Water		X		=	
Barium TCLP Soil		X		=	
Barium Total Soil		X		=	
Barium Water		X		=	
Cadmium TCLP Soil		X		=	
Cadmium Total Soil		X		=	
Cadmium Water		X		=	
Chromium TCLP Soil		X		=	
Chromium Total Soil		X		=	
Chromium Water		X		=	
Cyanide TCLP Soil		X		=	
Cyanide Total Soil		X		=	
Cyanide Water		X		=	
Iron TCLP Soil		X		=	
Iron Total Soil		X		=	
Iron Water		X		=	
Lead TCLP Soil	2	X	18.15	=	\$36.30
Lead Total Soil		X		=	
Lead Water	2	X	20.42	=	\$40.84
Mercury TCLP Soil		X		=	
Mercury Total Soil		X		=	
Mercury Water		X		=	
Selenium TCLP Soil		X		=	
Selenium Total Soil		X		=	
Selenium Water		X		=	
Silver TCLP Soil		X		=	
Silver Total Soil		X		=	
Silver Water		X		=	
Metals TCLP Soil (a combination of all metals) RCRA		X		=	
Metals Total Soil (a combination of all metals) RCRA		X		=	
Metals Water (a combination of all metals) RCRA		X		=	
		X		=	
		X		=	
		X		=	
		X		=	
Other					
EnCore® Sampler, purge-and-trap sampler, or equivalent ¹ sampling device		X		=	
Sample Shipping per sampling event ¹	1	X	56.73	=	\$56.73

¹A sampling event, at a minimum, is all samples (soil and groundwater) collected in a calendar day.

Total Analytical Costs: \$ 1,656.47

Remediation and Disposal Costs Form

A. Conventional Technology

Excavation, Transportation, and Disposal of contaminated soil and/or the 4-foot backfill material removal during early action activities:

Number of Cubic Yards	Cost per Cubic Yard (\$)	Total Cost

Backfilling the Excavation:

Number of Cubic Yards	Cost per Cubic Yard (\$)	Total Cost

Overburden Removal and Return:

Number of Cubic Yards	Cost per Cubic Yard (\$)	Total Cost

B. Alternative Technology

Alternative Technology Selected:	
Number of Cubic Yards of Soil to Be Remediated	
Total Non-Consulting Personnel Costs Summary Sheet (\$)	
Total Remediation Materials Costs Summary Sheet (\$)	
Total Cost of the System	

Remediation and Disposal Costs Form

C. Groundwater Remediation and/or Free Product Removal System

Total Non-Consulting Personnel Costs Summary Sheet (\$)	
Total Remediation Materials Costs Summary Sheet (\$)	
Total Cost of the System	

D. Groundwater and/or Free Product Removal and Disposal

Subpart H minimum payment amount applies.

Number of Gallons	Cost per Gallon (\$)	Total Cost (\$)

E. Drum Disposal

Subpart H minimum payment amount applies.

Number of Drums of Solid Waste	Cost per Drum (\$)	Total Cost (\$)
2	283.64	567.28
Number of Drums of Liquid Waste	Cost per Drum (\$)	Total Cost (\$)
Total Drum Disposal Costs		567.28

Total Remediation and Disposal Costs:	\$567.28
--	-----------------

Consulting Personnel Costs Form

Employee Name	Personnel Title	Hours	Rate* (\$)	Total Cost
Remediation Category	Task			
Bryan Williams	Project Manager	50.00	90.00	\$4,500.00
Stage 2-Plan	Prepare plan and budget for Stage II/III plan and budget.			
John Marks	Scientist III	70.00	70.00	\$4,900.00
Stage 2-Plan	Prepare maps, exhibits and photos for Stage II/III plan and budget.			
Christy Churchwell	Administrative Assistant IV	6.00	40.00	\$240.00
Stage 2-Plan	Proof, copy and bind report.			
Bryan Williams	Project Manager	12.00	90.00	\$1,080.00
Stage 2-Field	Travel to site, perform borings on- and off-site, install monitoring wells, ship samples.			
John Marks	Scientist III	12.00	70.00	\$840.00
Stage 2-Field	Travel to site, assist with borings, MW's, flag traffic, etc.			
Bryan Williams	Project Manager	10.00	90.00	\$900.00
Stage 2-Field	Travel to site, purge and sample wells, re-survey wells and measure depth-to-water.			
John Marks	Scientist III	10.00	70.00	\$700.00
Stage 2-Field	Travel to site, help purge and sample wells, re-survey wells and measure depth-to-water.			
Bryan Williams	Project Manager	60.00	90.00	\$5,400.00
SICR	Prepare SICR, modeling, map contamination.			
John Marks	Scientist III	16.00	70.00	\$1,120.00
SICR	Prepare exhibits, maps, cross-sections, etc.			

Employee Name	Personnel Title	Hours	Rate* (\$)	Total Cost
Remediation Category	Task			
Christy Churchwell	Administrative Assistant IV	8.00	40.00	\$320.00
SICR	Proof, bind and mail SICR.			
Bryan Williams	Senior Prof. Geologist	2.00	122.35	\$244.70
Stage 2-Plan	Proof, edit and certify Stage II/III Plan and Budget.			
Bryan Williams	Project Manager	10.00	90.00	\$900.00
Stage 2-Field	Research offsite property owners, travel to site, contact offsite owners, determine boring locations.			

*Refer to the applicable Maximum Payment Amounts document.

Total of Consulting Personnel Costs	\$21,144.70
--	--------------------

Consultant's Materials Costs Form

Materials, Equipment, or Field Purchase		Time or Amount Used	Rate (\$)	Unit	Total Cost
Remediation Category	Description/Justification				
Mileage (three trips to site)		48.00	.50	miles	\$24.00
Stage 2-Field	Travel to Crossville.				
Poly tubing		160.00	.28	feet	\$44.80
Stage 2-Field	Purge and sample wells.				
FID meter		1.00	50.00	day	\$50.00
Stage 2-Field	Screen borings.				
Disposable bailers		8.00	4.95	ea.	\$39.60
Stage 2-Field	Sample wells.				
Survey Equipment		1.00	50.00	day	\$50.00
Stage 2-Field	Survey elevations on MW's.				
Water Level Indicator		1.00	25.00	day	\$25.00
Stage 2-Field	Determine depth-to-water in MW's.				
Submersible pump		1.00	35.00	day	\$35.00
Stage 2-Field	Pump-out monitoring wells.				

Total of Consultant Materials Costs	\$268.40
--	-----------------

Owner/Operator and Licensed Professional Engineer/Geologist Budget Certification Form

I hereby certify that I intend to seek payment from the UST Fund for costs incurred while performing corrective action activities for Leaking UST incident H-20091397. I further certify that the costs set forth in this budget are for necessary activities and are reasonable and accurate to the best of my knowledge and belief. I also certify that the costs included in this budget are not for corrective action in excess of the minimum requirements of 415 ILCS 5/57, no costs are included in this budget that are not described in the corrective action plan, and no costs exceed Subpart H: Maximum Payment Amounts, Appendix D Sample Handling and Analysis amounts, and Appendix E Personnel Titles and Rates of 35 Ill. Adm. Code 732 or 734. I further certify that costs ineligible for payment from the Fund pursuant to 35 Ill. Adm. Code 732.606 or 734.630 are not included in the budget proposal or amendment. Such ineligible costs include but are not limited to:

- Costs associated with ineligible tanks.
- Costs associated with site restoration (e.g., pump islands, canopies).
- Costs associated with utility replacement (e.g., sewers, electrical, telephone, etc.).
- Costs incurred prior to IEMA notification.
- Costs associated with planned tank pulls.
- Legal fees or costs.
- Costs incurred prior to July 28, 1989.
- Costs associated with installation of new USTs or the repair of existing USTs.

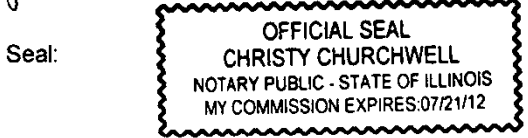
Owner/Operator: Martin & Bayley Inc.

Authorized Representative: Mr. Mark Bayley Title: Chairman

Signature: Mark Bayley Date: 9/15/10

Subscribed and sworn to before me the 15th day of September, 2010

Christy Churchwell
(Notary Public)



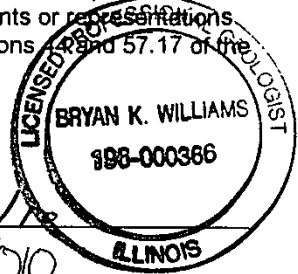
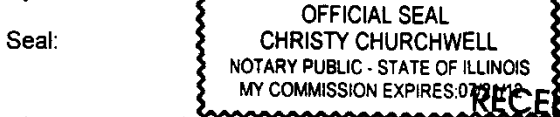
In addition, I certify under penalty of law that all activities that are the subject of this plan, budget, or report were conducted under my supervision or were conducted under the supervision of another Licensed Professional Engineer or Licensed Professional Geologist and reviewed by me; that this plan, budget, or report and all attachments were prepared under my supervision; that, to the best of my knowledge and belief, the work described in the plan, budget, or report has been completed in accordance with the Environmental Protection Act [415 ILCS 5], 35 Ill. Adm. Code 732 or 734, and generally accepted standards and practices of my profession; and that the information presented is accurate and complete. I am aware there are significant penalties for submitting false statements or representations to the Illinois EPA, including but not limited to fines, imprisonment, or both as provided in Sections 4.4 and 57.17 of the Environmental Protection Act [415 ILCS 5/44 and 57.17].

L.P.E./L.P.G.: Bryan Williams, P.G. L.P.E./L.P.G. Seal:

L.P.E./L.P.G. Signature: Bryan Williams Date: 9/15/10

Subscribed and sworn to before me the 15th day of September, 2010

Christy Churchwell
(Notary Public)



The Illinois EPA is authorized to require this information under 415 ILCS 5/1. Disclosure of this information is required. Failure to do so may result in the delay or denial of any budget or payment requested hereunder. **RECEIVED SEP 17 2010**

IEPA/BOL



ILLINOIS ENVIRONMENTAL PROTECTION AGENCY

1021 North Grand Avenue East, P.O. Box 19276, Springfield, Illinois 62794-9276 • (217) 782-2829
James R. Thompson Center, 100 West Randolph, Suite 11-300, Chicago, IL 60601 • (312) 814-6026

PAT QUINN, GOVERNOR

DOUGLAS P. SCOTT, DIRECTOR

217/782-6762

CERTIFIED MAIL

OCT 20 2010

7009 2820 0001 7491 7142

Martin & Bailey
Attention: Mr. Mark Bailey
928 County Road 1350N
Carmi, Illinois 62821

Re: LPC #1930155021 -- White County
Crossville/ Maier's Grocery
109 South State Street
Leaking UST Incident No. 20091397
Leaking UST Technical File

Dear Mr. Bailey:

The Illinois Environmental Protection Agency (Illinois EPA) has reviewed the Stage 2 and 3 Site Investigation Plan (plan) submitted for the above-referenced incident. This plan, dated September 16, 2010, was received by the Illinois EPA on September 17, 2010. Citations in this letter are from the Environmental Protection Act (Act), as amended by Public Act 92-0554 on June 24, 2002, and Public Act 96-0908 on June 8, 2010, and 35 Illinois Administrative Code (35 Ill. Adm. Code).

The Illinois EPA has determined that the activities proposed in this plan are appropriate to demonstrate compliance with Title XVI of the Act and 35 Ill. Adm. Code 734 (Sections 57.7(a)(1) and 57.7(c) of the Act and 35 Ill. Adm. Code 734.505(b) and 734.510(a)). Therefore, the plan is approved.

The actual costs for Stage 1 are modified pursuant to Sections 57.7(a)(2) and 57.7(c) of the Act and 35 Ill. Adm. Code 734.505(b) and 734.510(b). Based on the modifications listed in Section 2 of Attachment A, the amounts listed in Section 1 of Attachment A are approved. Be aware that the amount of payment from the Fund may be limited by Sections 57.8(d), 57.8(e), and 57.8(g) of the Act, as well as 35 Ill. Adm. Code 734.630 and 734.655.

In addition, the proposed budget for Stage(s) 2 and 3 is approved for amounts determined in accordance with Subpart H, Appendix D, and Appendix E of 35 Ill. Adm. Code 734 (35 Ill. Adm. Code 734.310(b)). Costs must be incurred in accordance with the approved plan. Please be advised that costs associated with materials, activities, and services must be reasonable, must be consistent with the associated technical plan, must be incurred in the performance of corrective action activities, must not be used for corrective action activities in excess of those necessary to meet the minimum requirements of the Act and regulations, and must not exceed the maximum payment amounts set forth in Subpart H, Appendix D, and Appendix E of Part 734 (Section 57.7(c) of the Act and 35 Ill. Adm. Code 734.510(b)).

RELEASED

OCT 20 2010

DOUGLAS P. SCOTT, DIRECTOR

Rockford • 4302 N. Main St., Rockford, IL 61103 • (815) 987-7760
Elgin • 595 S. State, Elgin, IL 60123 • (847) 608-3131
Bureau of Land – Peoria • 7620 N. University St., Peoria, IL 61614 • (309) 693-5462
Collinsville • 2009 Mall Street, Collinsville, IL 62234 • (618) 346-5120

Des Plaines • 9511 W. Harrison St., Des Plaines, IL 60016 • (847) 294-4000
Peoria • 5415 N. University St., Peoria, IL 61614 • (309) 693-5463
Champaign • 2125 S. First St., Champaign, IL 61820 • (217) 278-5800
Marion • 2309 W. Main St., Suite 116, Marion, IL 62959 • (618) 993-7200

NOTE: For Corrective Action, a foc sample must be obtained by Method (ASTM2974) for use in determining Tier 2 clean up objectives. The TOC by Method (USDA LOI) that was submitted with this report is not acceptable.

NOTE: Pursuant to Section 57.8(a)(5) of the Act, if payment from the Fund will be sought for any additional costs that may be incurred as a result of the Illinois EPA's modifications, an amended budget must be submitted. Amended plans and/or budgets must be submitted and approved prior to the issuance of a No Further Remediation (NFR) Letter. Costs associated with a plan or budget that have not been approved prior to the issuance of an NFR Letter will not be paid from the Fund.

Pursuant to Sections 57.7(a)(5) and 57.12(c) and (d) of the Act and 35 Ill. Adm. Code 734.100 and 734.125, the Illinois EPA requires submittal of a Stage 3 Site Investigation Plan, and budget if applicable, or Site Investigation Completion Report within 30 days after completing the site investigation to:

Illinois Environmental Protection Agency
Bureau of Land - #24
Leaking Underground Storage Tank Section
1021 North Grand Avenue East
Post Office Box 19276
Springfield, IL 62794-9276

Please submit all correspondence in duplicate and include the Re: block shown at the beginning of this letter.

An underground storage tank system owner or operator may appeal this decision to the Illinois Pollution Control Board. Appeal rights are attached.

If you have any questions or need further assistance, please contact Donna Wallace at 217/ 524-1283.

Sincerely,



Thomas A. Henninger
Unit Manager
Leaking Underground Storage Tank Section
Division of Remediation Management
Bureau of Land

TAH:DW:dw\

Attachment: Attachment A (Actual Costs)

c: Applied Environmental Technologies, Inc.
BOL File
Leaking UST Claims

Attachment A

Re: LPC #1930155021 -- White County
Crossville/ Maier's Grocery
109 South State Street
Leaking UST Incident No. 20091397
Leaking UST Technical File

SECTION 1

STAGE 1 Actual Costs

As a result of the Illinois EPA's modifications in Section 2 of this Attachment A, the following amounts are approved:

\$2,595.00	Drilling and Monitoring Well Costs
\$2,909.00	Analytical Costs
\$0	Remediation and Disposal Costs
\$0	UST Removal and Abandonment Costs
\$0	Paving, Demolition, and Well Abandonment Costs
\$10,440.00	Consulting Personnel Costs
\$102.99	Consultant's Materials Costs

Handling charges will be determined at the time a billing package is reviewed by the Illinois EPA. The amount of allowable handling charges will be determined in accordance with Section 57.1(a) of the Environmental Protection Act (Act) and 35 Illinois Administrative Code (35 Ill. Adm. Code) 734.635.

SECTION 2

STAGE 1 Modifications

\$2,440.00 for costs for personnel activities related to Stage 2 and 3 that are inconsistent with the associated technical plan. One of the overall goals of the financial review is to assure that costs associated with materials, activities, and services are consistent with the associated technical plan. Such costs are ineligible for payment from the Fund pursuant to Section 57.7(c)(3) of the Act and 35 Ill. Adm. Code 734.510(b).

Stage 2 and 3 Actual Costs should be kept separate from the Stage 1 Actual Costs.

DW:dwl

Appeal Rights

An underground storage tank owner or operator may appeal this final decision to the Illinois Pollution Control Board pursuant to Sections 40 and 57.7(c)(4) of the Act by filing a petition for a hearing within 35 days after the date of issuance of the final decision. However, the 35-day period may be extended for a period of time not to exceed 90 days by written notice from the owner or operator and the Illinois EPA within the initial 35-day appeal period. If the owner or operator wishes to receive a 90-day extension, a written request that includes a statement of the date the final decision was received, along with a copy of this decision, must be sent to the Illinois EPA as soon as possible.

For information regarding the filing of an appeal, please contact:

Dorothy Gunn, Clerk
Illinois Pollution Control Board
State of Illinois Center
100 West Randolph, Suite 11-500
Chicago, IL 60601
312/814-3620

For information regarding the filing of an extension, please contact:

Illinois Environmental Protection Agency
Division of Legal Counsel
1021 North Grand Avenue East
Post Office Box 19276
Springfield, IL 62794-9276
217/782-5544

U.S. Postal Service™
CERTIFIED MAIL™ RECEIPT
(Domestic Mail Only; No Insurance Coverage Provided)

For delivery information visit our website at www.usps.com

7009 2820 0001 7491 7142

7009 2820 0001 7491 7142

7009 2820 0001 7491 7142

Postage	\$	2.80
Certified Fee		2.30
Return Receipt Fee <small>(Endorsement Required)</small>		
Restricted Delivery Fee <small>(Endorsement Required)</small>		

Total Post

Martin & Bailey
 Sent To Attn: Mr. Mark Bailey
 Street, Apt. 1 or PO Box # 928 County Road 135N
 City, State, Z Carmi, IL 62821

PS Form 3800, August 2005 See Reverse for Instructions



SENDER: COMPLETE THIS SECTION	COMPLETE THIS SECTION ON DELIVERY
<ul style="list-style-type: none"> ■ Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired. ■ Print your name and address on the reverse so that we can return the card to you. ■ Attach this card to the back of the mailpiece, or on the front if space permits. <p>1. Article Addressed to</p> <p>Martin & Bailey Attn: Mr. Mark Bailey 928 County Road 135N Carmi, IL 62821</p> <p>2. Article Number <small>(Transfer from service label)</small></p>	<p>A. Signature <input type="checkbox"/> Agent <input type="checkbox"/> Addressee</p> <p>B. Received by (Printed Name) C. Date of Delivery</p> <p>Jim Whalstone 10-22</p> <p>D. Is delivery address different from item 1? <input type="checkbox"/> Yes <input type="checkbox"/> No <small>if YES, enter delivery address below:</small></p> <p>1311A W Main 20091397 TAH/DW</p> <p>3. Service Type</p> <p><input checked="" type="checkbox"/> Certified Mail <input type="checkbox"/> Express Mail <input type="checkbox"/> Registered <input type="checkbox"/> Return Receipt for Merchandise <input type="checkbox"/> Insured Mail <input type="checkbox"/> C.O.D.</p> <p>4. Restricted Delivery? (Extra Fee) <input type="checkbox"/> Yes</p>
7009 2820 0001 7491 7142	
PS Form 3811, February 2004 Domestic Return Receipt 102595-02-M-1540	

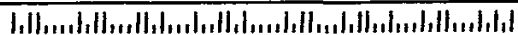
UNITED STATES POSTAL SERVICE



First-Class Mail
Postage & Fees Paid
USPS
Permit No. G-10

• Sender: Please print your name, address, and ZIP+4 in this box •

**Illinois Environmental
Protection Agency**
P.O. BOX 19276 MAIL CODE #
SPRINGFIELD, IL 62794-9276



000374

CW^M Company

Environmental Consulting Services

701 W. South Grand Avenue
Springfield, IL 62704

Phone: (217) 522-8001
Fax: (217) 522-8009

July 18, 2013

Ms. Donna Wallace, Project Manager
LUST Section, Bureau of Land
Illinois Environmental Protection Agency
1021 North Grand Avenue East
Springfield, Illinois 62794-9276

**1930155021 - White Co.
Maier's Grocery
Incident # 20091397
Leaking UST Tech File**

RE: **LPC #1930155021—White County
Huck's #131 / Maier's Grocery
109 South State Street, Crossville, Illinois
Incident Number: 2009-1397
LUST Technical Reports — Stage 2 / 3 Site Investigation Plan and Budget**

EPA DIVISION OF REGIONAL OFFICE
OFFICE

AUG 14 2013

REVIEWER JKS

Dear Ms. Wallace:

On behalf of Mr. Mark Bayley, owner of the USTs at the above referenced site, we are submitting the attached Amended Stage 2 / 3 Site Investigation Plan and Budget. This includes the results of Stage 2 / Stage 3 investigations as well as a summary of costs. A Site Investigation Completion Report will be prepared on behalf of the owner.

If you have questions or require more information, please contact Mr. Vince Smith at (618) 997-2238, or me, at (217) 522-8001. Thank you for your consideration of this request.

Sincerely,



Carol L. Rowe, P.G.
Senior Environmental Geologist

Enclosure

xc: Mr. Mark Bayley, *Martin and Bayley, Inc*
Mr. William T. Sinnott, *CW^M Company, Inc.*

D:\M&B Maiers Grocery\Stage 2 3/ Stage 2 3 Coverletter.doc

RECEIVED

JUL 19 2013

IEPA/BOL

701 W. South Grand Avenue
Springfield, IL 62704
(217) 522-8001

400 West Jackson, Suite C
Marion, IL 62959
(618) 997-2238

000375

1930155021 - White Co.
Maier's Grocery
Incident # 20091397
Leaking UST Tech File

AMENDED STAGE 2 / 3 SITE INVESTIGATION PLAN AND BUDGET

HUCK'S #131 / MAIER'S GROCERY

Crossville, Illinois
LPC #1930155021— White County
Incident Number 2009-1397

RECEIVED

JUL 19 2013

IEPA/BOL

Submitted to:

Illinois Environmental Protection Agency
Leaking Underground Storage Tank Section, Bureau of Land
1021 North Grand Avenue East
Springfield, Illinois

Prepared By:

CW³M COMPANY, INC.

701 West South Grand Ave.
Springfield, Illinois
(217) 522-8001

400 West Jackson St., Suite C
Marion, Illinois
(618) 997-2238

JULY 2013

CONTENTS

APPENDICES	ii
TABLES	ii
ACRONYMS AND ABBREVIATIONS	iii
1. SITE HISTORY/EXECUTIVE SUMMARY	1
1.1 General	1
1.2 Site Location	2
1.3 Underground Storage Tank Information	2
1.4 Early Action Summary	3
2. SITE CHARACTERIZATION	4
2.1 Nature and Quantity of Release	4
2.2 Current and Projected Post-Remediation Uses	4
2.3 Water Quality	4
2.4 Well Data	4
2.5 Subsurface Soil Conditions and Regional Geology	5
2.5.1 Surficial Geology	5
2.5.2 Bedrock Geology	5
2.5.3 Distribution of Aquifers	5
2.5.4 Potential for Contamination of Shallow Aquifers	6
2.6 Climatological Conditions	6
3. SITE INVESTIGATION	7
3.1 Site Investigation Executive Summary	7
3.2 Drilling Method	7
3.3 Monitor Well Installation and Development Protocol	8
3.4 Soil Sampling Protocol	8
3.5 Groundwater Sampling Protocol	9
3.6 Description of Activities Completed	9
3.6.1 First Round of Sampling	9
3.6.2 Second Round of Sampling	10
3.6.3 Hydraulic Conductivity Testing	10
4. DEVELOPMENT OF REMEDIATION OBJECTIVES	12
4.1 Groundwater Remediation Objectives	12
4.2 Soil Remediation Objectives	13
4.3 Groundwater Flow Direction	13
5. SITE MAPS	14

6. CONCLUSIONS AND RECOMMENDATIONS..... 15
 6.1 Conclusions..... 15
 6.2 Recommendations 15

8. REFERENCES 16

APPENDICES

APPENDIX A Site Investigation Plan Form
APPENDIX B Site Maps and Illustrations
APPENDIX C Illinois Office of the State Fire Marshal Eligibility Determination
APPENDIX D Boring Logs and Well Completion Reports
APPENDIX E Analytical Results
APPENDIX F Site Investigation Budgets and Certification
APPENDIX G Off Site Affidavit

TABLES

Table 1-1 Underground Storage Tank Summary 2
Table 2-1 Water Well Supply Information 5
Table 4-1 Groundwater Remediation Objectives 12
Table 4-2 TACO Tier 1 Soil Remediation Objectives 13

ACRONYMS AND ABBREVIATIONS

BETX	benzene, ethylbenzene, toluene and total xylenes
CUOs	Clean-Up Objectives
CW ³ M	CW ³ M Company, Inc.
Ill. Adm. Code	Illinois Administrative Code
IEMA	Illinois Emergency Management Agency
IEPA	Illinois Environmental Protection Agency
ISGS	Illinois State Geological Survey
ISWS	Illinois State Water Survey
LUST	Leaking Underground Storage Tank
mg/kg	milligrams per kilogram (parts per million)
mg/L	milligrams per liter
ml	Milliliters
MTBE	Methyl tert-butyl ether
MW	Monitoring Well
PID	Photoionization detector
PVC	polyvinyl chloride
OSFM	Office of the State Fire Marshal
ROW	Right of Way
SICR	Site Investigation Completion Report
SIP	Site Investigation Plan
TACO	Tiered Approach to Corrective Action Objectives
TCLP	Toxicity Characteristic Leaching Procedure
USTs	Underground Storage Tank
WCRs	Well Completion Reports

1 SITE HISTORY/EXECUTIVE SUMMARY

1.1 GENERAL

Mr. Mark Bayley, representing Martin and Bayley, Inc. / Maiers Grocery, the owner of the underground storage tanks (USTs) at Huck's Convenience Store #131, reported a release to the Illinois Emergency Management Agency (IEMA) following an environmental assessment. Incident Number 2009-1397 was assigned on December 16, 2009. Martin and Bayley, Inc. has now requested that CW³M Company, Inc. (CW³M) proceed with site investigation completion report requirements in accordance with 35 Illinois Administrative Code (Ill Adm. Code) § 734.

The 20-Day Certification was submitted to the Illinois Environmental Protection Agency (IEPA) on December 30, 2009 (AET, 2009). The 45-Day Report was submitted on January 26, 2010 (AET, 2010a) and was approved by the Agency on February 4, 2010 (IEPA, 2010a). Because Applied Environmental Technologies, Inc. (AET) conducted a Stage 2 and Stage 3 Site Investigation simultaneously, both reports were submitted on November 17, 2010 (AET, 2010b) and approved by the Agency on October 20, 2010 (IEPA, 2010b).

This Amended Stage 2 / 3 Site Investigation Plan (SIP) has been prepared by CW³M in accordance with the requirements of 35 Ill. Adm. Code § 734. The Site Investigation Plan form, which has been prescribed and provided by the IEPA, has been included herein as Appendix A. All costs incurred from Stage 2 / 3 activities conducted by CW³M and the Amended Stage 2 / 3 proposed budget are included herein as Appendix F. This report is certified by an Illinois Licensed Professional Engineer. The geological investigation and site investigation was performed under the direction of an Illinois Licensed Professional Geologist and completed in accordance with the Professional Geologist Licensing Act and its Rules for Administration.

1.2 SITE LOCATION

The site, known as Huck's #131 / Maier's Grocery is located at 109 South State Street, Crossville, White County, Illinois 62821. The site is located in the SW ¼ of the NE ¼ of the SE ¼ of Section 23, Township 4 South of the Centralia Baseline and Range 10 East of the Third Principal Meridian.

1.3 UNDERGROUND STORAGE TANK INFORMATION

Applied Environmental Technologies, Inc. personnel were at the site on December 16, 2009 to conduct early action activities. Two (2) ten thousand (10,000) gallon underground storage tanks (UST's), one (1) eight thousand (8,000) gallon UST, and one (1) four thousand (4,000) gallon UST were present at the facility; all containing gasoline. Under permit No. 00007-2010REM issued by Office of the Illinois State Fire Marshall (OSFM) tank specialist Daniel Starks, the two (2) ten thousand (10,000) gallon UST's were removed on January 27, 2010. A narrative of the tank removals and other early action activities can be found in the 45-Day Report (AET, 2010a).

Table 1-1. Underground Storage Tank Summary

Tank Number	Tank Volume (gallons)	Tank Contents	Incident Number	Release Information	Current Status
1	10,000	Gasoline	2010-0620	Tank Leak	Removed 1/27/2010
2	10,000	Gasoline	2010-0620	Tank Leak	Removed 1/27/2010
3	8,000	Gasoline	none	n/a	Currently in use
6	4,000	Gasoline	none	n/a	Currently in use

1.4 EARLY ACTION SUMMARY

Following IEMA notification of the release, Mr. Mark Bayley requested that AET proceed with reporting requirements and early action activities in accordance with 35 Ill. Adm. Code § 734.

While on site on December 16, 2009 for an environmental assessment, AET personnel observed soil discoloration and odor in a soil boring advanced adjacent to the tank pit which contained the two (2) 10,000 gallon UST's. Permit No. 00007-2010REM was issued by OSFM Tank Specialist Daniel Starks. Starks was on-site to observe the removal of the two (2) ten thousand (10,000) gallon UST's on January 27, 2010. Following the removal of the tanks, the cause of the release was confirmed to be the result of holes in the UST's. Installation of two new ten thousand (10,000) gallon tanks immediately followed the removal of the old tanks.

Approximately 544 tons (362 cubic yards) of contaminated backfill was removed from the former tank pit and taken to Veolia Landfill in Fairfield, Illinois. Applied Environmental Technologies, Inc. then collected nineteen (19) soil samples in early action which were analyzed for benzene, ethylbenzene, toluene, and total xylenes (BETX), methyl-tert-butyl-ether (MTBE), Toxicity Leaching Characteristic Leaching Procedure (TCLP) Lead, and Total Lead. Soil samples were collected from the excavation walls and floor, the supply lines, and beneath the dispensers, as required. Soil analytical results indicated that the most stringent Tier 1 Clean-up Objectives (CUO's) have been exceeded by benzene, ethylbenzene, MTBE, and lead at various locations around the tank pit area. The soil boring logs and analytical results from early action sampling were included in the 45-Day Report (AET, 2010a).

2 SITE CHARACTERIZATION

2.1 NATURE AND QUANTITY OF RELEASE

On January 27, 2010 OSFM Tank Specialist Daniel Starks was at the site to oversee the tank removal activities conducted and coordinated by Applied Environmental Technologies, Inc. Removal of the tanks at the site confirmed the release and the factors that contributed to the release. The quantity of the release is unknown; however, it was evident to have migrated beyond the backfill materials into the surrounding native soil. Before the tanks were removed, tank leak tests confirmed that an ongoing release was not occurring and no product was present within the tanks.

2.2 CURRENT AND PROJECTED POST-REMEDATION USES

The site is located in a commercial / residential district of Crossville, Illinois. Surrounding the site are private residences as well as small businesses. The site borders Main Street (Route 14) to the north and Illinois Route 1 to the east.

2.3 WATER QUALITY

According to the Illinois Pollution Control Board, three Class III Groundwater contributing area exist; however, they are located in McHenry County, Monroe County, and St. Clair County. Therefore, CW³M will consider the groundwater at this site to be Class I unless demonstrated otherwise pursuant to 35 Ill. Adm. Code § 620.210. The city of Carmi supplies the site with water.

2.4 WELL DATA

A survey of water supply wells for the purpose of identifying and locating all community water supply wells within 2,500 feet of the UST systems and all potable water supply wells within 200 feet of the UST systems has been conducted. The Illinois State Water Survey (ISWS), the Illinois State Geological Survey (ISGS) and the IEPA Division of Public Water Supplies were contacted via the Source Water Assessment Program online.

The ISGS, ISWS, and IEPA Division of Public Water Supplies were accessed on line on June 19, 2013 (EPA.STATE.IL.US, 2013). The response indicated that four wells were located within 2,500 feet of the site and no wells are within the designated set back zone.



Illinois EPA FOIA Exemption Reference Sheet

SID: 22009

Agency ID: 170001834825 Media File Type LAND
Bureau ID: 1930155021
Site Name: Martin & Bailey Inc
Site Address1: 109 S State St
Site Address2:
Site City: Crossville State: IL Zip: 62827-

**This record has been determined to
be partially or wholly exempt from
public disclosure**

Exemption Type:

Redaction

Exempt Doc #: 2

Document Date: 7/19/2013

Staff: JKS

**Document Description: STAGE2/3 SITE INVESTIGATION PLAN AND BUDGET: WELL
INFORMATION, CITIZEN LETTER**

Category ID: 21A

Category Description: LEAKING UST TECHNICAL

Exempt Type: Redaction

Permit ID:

Date of Determination: 8/14/2013

Table 2-1. Water Supply Well Information

Well ID	Type	Depth of Well (feet)	Distance From USTs (feet)	Setback Zone (feet)
[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]
[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]
[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]
[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]

2.5 SUBSURFACE SOIL CONDITIONS AND REGIONAL GEOLOGY

2.5.1 Surficial Geology

According to the 1988 "Stack-unit map", the area consists of less than 6 meters (19.7 ft) of Equality Carmi silts overlaying more than 6 meters (19.7 ft) of Glasford formations, loamy and sandy diamictions. Pennsylvanian rocks, mainly shales may not be continuous at the 6-15 meter depth in this mapping area but may be present within 6 meters of the surface in some portions (ISGS, 1988). The Glasford Formation classification is consistent with the "G" classification from the "Berg Circular" discussed below in Section 2.5.5.

2.5.2 Bedrock Geology

Between the depths of 50 to 200 feet of Pleistocene deposits, Pennsylvanian limestone may occur (ISGS, 1984). The Pennsylvanian (Bond and Mattoon Formations) rocks are largely composed of limestone, dolomite and sandstone. These formations include narrow belts of older formations along La Salle Anticline (ISGS, 1975).

2.5.3 Distribution of Aquifers

Glacial deposits are thin in White County. Thin scattered deposits of clay, sand, and gravel are locally present in the upper part of White County. Pennsylvanian sandstone is water-yielding in the central portion of White County. Most domestic wells obtain water from these sandstones at depths ranging from 25 to 100 feet (ISGS, 1956).

2.5.4 Potential For Contamination Of Shallow Aquifers

ISGS Circular Number 532, the Berg Circular, indicates that the site is located in an area classified as “G”. The area “G” represents an area that consists of shale or relatively impermeable limestone between 20 and 50 feet of the surface; overlain by till or other fine-grain materials with no identifiable sand or gravel (ISGS, 1984).

The geologic limitations listed within the Berg Circular 532, concerning “G” sequence, states that the potential for contamination is very low because unconsolidated deposits at least 20-feet thick overlie the bedrock. Also, more clay is contained in the unconsolidated deposits than in the shale or limestone: increasing the clay content increases the attenuation capacity of these sequences (ISGS, 1984).

2.6 CLIMATOLOGICAL CONDITIONS

White County has typical southern Illinois temperatures, with cold winters and hot summers. The coldest months are usually January and the early part of February. July is usually the warmest month, with an average maximum temperature of approximately 90°F. The average annual precipitation is 35 to 45 inches. Precipitation is fairly uniformly distributed throughout the year (Weather.com, 2013).

3 SITE INVESTIGATION

3.1 SITE INVESTIGATION EXECUTIVE SUMMARY

Following Stage 2 / 3 investigations, Martin and Bayley, Inc., requested that CW³M to proceed with further investigation activities in accordance with 35 Ill Adm. Code 734.

On November 21, 2011 CW³M personnel were on site to implement Stage 2 / 3 investigation activities previously approved by AET. Six Monitoring wells (MWs) with soil borings were installed at the locations approved by the IEPA in the Site Investigation 2 and 3 submitted by AET on September 17, 2010. CW³M personnel were back on site January 26, 2012 to take groundwater samples from the installed monitoring wells. All samples, both groundwater and soil, were tested for BETX and MTBE. Soil Samples were also tested for TCLP lead. Only one sample (B-6 2.5') exceeded Tier 1 CUO's for TCLP lead. Groundwater analytical results from Stage 2 / 3 investigation activities indicate that all samples came back clean and the groundwater contamination has been defined on and off site. Soil boring logs and Well Completion Reports (WCR's) are included in Appendix D. Analytical Results are summarized and included in Appendix E.

This Amended Stage 2 / 3 SIP proposes two soil borings in an attempt to complete and more narrowly define the soil contamination plume. Borings advanced during the Stage 2 / 3 SIP indicated that the soil contamination plumes may not have been defined on site. Although the current analytical results indicate the sample that exceeded Tier 1 CUO's for lead may be an anomaly, it may also indicate the soil plume is not defined on site or contamination may exist off site. The soil samples will be tested only for TCLP lead. Also proposed at this time is one TACO sample to be analyzed for the Tiered Approach to Clean-up Objective (TACO) Tier 1 parameters.

3.2 DRILLING METHOD

Five-foot continuous samplers were used to advance and characterize each boring. This method was selected to minimize the likelihood of gaps in the sample column. Augers were decontaminated with a pressure steam wash between borings to prevent cross-contamination. Soil boring logs were prepared for all soil borings.

3.3 MONITOR WELL INSTALLATION AND DEVELOPMENT PROTOCOL

Two-inch diameter wells consisted of a 10-foot polyvinyl chloride (PVC) screen and PVC riser above the well screen. Annular space around the wells was filled with coarse-grained, 20/20, sand. Each well was completed at the surface with a flush-mount manway and a locking protective cover. The manways were slightly elevated and the concrete sloped away from each well to prevent surface water run-in. The elevations of the manways were surveyed to the nearest 0.01-foot.

Monitoring wells were cleared of foreign sediment by standard well development procedures in order to restore the natural hydraulic conductivity of the formation and to reduce the turbidity of the groundwater samples. All of the wells were developed by surging the bailer back and forth for several minutes, followed by withdrawing the groundwater. The development process continued until clear water flowed into each well. The purpose of the surging was to remove the undersize sediment from the well and filter pack. All wells were developed the day of installation.

3.4 SOIL SAMPLING PROTOCOL

All samples were collected utilizing proper sampling protocol. Samplers wore new, disposable, latex gloves for each sampling event. Samples were collected at the center of each 5-foot boring section if no contamination was detected, otherwise samples are taken from the area in the section with the highest level of contamination. Each sample collected was screened using a photoionization detector (PID). The sample from each section (above the water table) was placed in the appropriate laboratory-provided sampling container for laboratory analysis of BETX, MTBE, and TCLP lead. Proper sampling, decontamination and chain-of-custody procedures were employed. The sample containers were filled, labeled, and kept cool until shipment to the laboratory. Sample descriptions were recorded on the boring log prepared for each boring.

All soil samples were analyzed by an accredited laboratory using test methods identified under 35 Ill. Adm. Code 186.180. As required by the Leaky Underground Storage Tank (LUST) Section, a Laboratory Certification for Chemical Analysis accompanies each of the sample results that have been reported.

3.5 GROUNDWATER SAMPLING PROTOCOL

All samples were collected utilizing proper sampling protocol. Samplers wore clean, disposable latex gloves, which were changed between each sample. The water level in each newly installed well was measured prior to sampling to determine the direction of the flow of groundwater. Prior to sampling, the water above the well screen was extracted from each well utilizing clean, disposable bailers to purge the well of its contents and collect a fresh sample of groundwater as it flowed into the well.

Groundwater samples were gently poured into 40 milliliter (mL) glass vials for BETX and MTBE, and then placed in a cooler with ice for transport. The samples were placed in coolers with ice for delivery to the laboratory. Proper chain-of-custody procedures were followed. Each sample was labeled immediately upon collection and logged onto the chain-of-custody form. The chain-of-custody form was transported with the samples and was relinquished to the laboratory. The data collected was used to determine the groundwater flow directions and whether the applicable groundwater quality standards had been exceeded.

3.6 DESCRIPTION OF ACTIVITIES COMPLETED

3.6.1 First Round of Sampling

On June 2, 2010, AET personnel were on site to complete the Stage 1 investigation activities. Five monitoring wells (MWs) with soil samples were advanced as part of the plume delineation activities. Soil samples were collected from each drilling location and were analyzed for BETX, MTBE, and TCLP lead. AET personnel returned to the site on June 30, 2010, to survey and sample MW-1 through MW-5. Analytical results, boring logs, and WCR's can be found in Site Investigation Plan Stage 2 / 3 (AET, 2010b).

Soil analytical results from Stage 1 investigations indicate that the benzene CUOs for B-2 at 7.5-foot depth and lead CUOs for B-4 at 10-foot depth were exceeded. Groundwater analytical results for monitoring wells, MW-2, MW-3, and MW-5 exceeded the Class I Groundwater Objectives for benzene. MW-3 also exceeded Class I Groundwater Objectives for MTBE.

3.6.2 Second Round of Sampling

Based on the results from Stage 1, AET proposed and received IEPA approval for a Stage 2 / 3 Site Investigation Plan. The plan called for the installation of seven (7) monitoring wells with soil samples (B-6 through B-12). Martin and Bayley, Inc. then asked CW³M to take over the project. On November 21, 2011 CW³M personnel were on site to complete the Stage 2 / 3 site investigation activities proposed by AET. Six MWs with soil samples were advanced as part of the Stage 2 / 3 site investigation activities. Note that, due to a failure to reach an off-site agreement, sample location B-7 was never taken. Therefore samples B-8, B-11, and B-12 were taken off site to the south of the tank pit and B-6, B-9, and B-10 were taken on site to the north and east. Soil samples were collected and analyzed for BETX, MTBE, and TCLP lead. CW³M personnel returned to the site on January 26, 2012 to survey and sample groundwater at locations B-6 through B-12. Groundwater samples were analyzed for BETX and MTBE. Soil boring logs and WCRs are included in Appendix D. Analytical results are summarized and included in Appendix E.

Soil analytical results from the Stage 2 / 3 investigations indicate that the CUOs for B-6 were exceeded for TCLP lead. Groundwater analytical results for all locations indicate that groundwater is clean, therefore, the groundwater contamination plume has been defined on and off site.

3.6.3 Hydraulic Conductivity Testing

To be in accordance with 35 Ill. Adm. Code 734, remediation objectives are being proposed to determine in accordance with 35 Ill. Adm. Code 742. The site specific physical parameters have yet to be determined but are listed below.

Hydraulic Conductivity (K)
Soil bulk density (ρ_b),
Soil particle density (ρ_s),
Moisture content (w),
Organic carbon content (f_{oc})

In order to determine the hydraulic conductivity, a slug test will be performed during the proposed Stage 2 / 3 site investigation activities. The test will be performed by lowering a "slug" constructed of PVC into a monitoring well. When the slug is lowered into the well, the groundwater will be displaced by the volume of the slug. As the water within the well equilibrates, groundwater depth changes will be recorded in relation to the time interval that had passed since the test was initiated.

*CWM Company, Inc.
Amended Stage 2 / 3 Site Investigation
Huck's#131 / Maier's Grocery – Crossville
LPC #1930155021 – Incident Number 2009-1397*

The hydraulic conductivity calculations are based on the total well depth, screen length and radius, initial water depth and the water depth change over time. The depth-to-water changes over time were plotted on a semi-logarithmic graph and the curve was evaluated. The slope of the straight-line portion of the curve, along with the slug test data, will be used to calculate the hydraulic conductivity.

4. DEVELOPMENT OF REMEDIATION OBJECTIVES

4.1 GROUNDWATER REMEDIATION OBJECTIVES

CW³M will consider the groundwater at this site to be Class I unless demonstrated otherwise pursuant to 35 Ill. Adm. Code § 620.210. According to the Illinois Pollution Control Board, three Class II Groundwater contributing areas exist; however, they are located in McHenry, Monroe, and St. Clair Counties in northern and western Illinois.

Groundwater investigation sample results were compared to the TACO Residential Tier 1 Clean-up Objectives.

Table 4-1. Groundwater Remediation Objectives

Parameter	TACO Tier 1 Residential Clean-up Objective (mg/L)
Benzene	0.005
Ethylbenzene	0.7
Toluene	1.0
Total Xylenes	10.0

4.2 SOIL REMEDIATION OBJECTIVES

Soil analytical results were compared to the TACO Residential Tier 1 Clean-up Objectives.

Table 4-2. TACO Tier 1 Soil Remediation Objectives

Parameter	TACO Residential Tier 1 Clean-up Objective (mg/kg)
Benzene	0.03
Ethylbenzene	13.0
Toluene	12.0
Total Xylenes	5.6
Methyl tert-butyl ether	0.32
Lead TCLP	0.0075

4.3 GROUNDWATER FLOW DIRECTION

Static water elevations were measured for each well. The well locations are surveyed to determine relative surface elevations. The data collected is used to determine relative groundwater elevations and the groundwater flow direction. Generally, static groundwater elevations do not stabilize on the date of well installation and well development procedures interfere with determination of static elevation. As a result, an additional trip to the site is required to sample and survey the monitoring wells. Based on activities completed to date, it appears that the groundwater flow direction is toward the southwest across the site.

5. SITE MAPS

Site maps identifying the UST systems, excavations and sample locations, product and dispenser lines, pumps and pump islands, underground utilities, nearby structures, property boundaries, and the locations of proposed boring and monitoring wells are included in Appendix B. All maps are prepared in accordance with 35 Ill. Adm. Code 734.440.

A map of the site and any surrounding areas that may be adversely affected by the release of petroleum from the UST systems will be provided in the Site Investigation Completion Report (SICR). At a minimum, the map will be to scale and will show the location of the leaking UST systems with any associated piping and all potential natural and/or man-made pathways which are on the site, in Right of Ways (ROWs) attached to the site, or that are in areas that may be adversely affected as a result of the release.

6. CONCLUSIONS AND RECOMMENDATIONS

6.1 CONCLUSIONS

Soil and groundwater BETX and MTBE contamination has been defined on the subject property. While soil analytical results indicate that the CUOs for the site have been exceeded for TCLP lead contaminants at the northern property boundary. The Tier 1 CUO for TCLP lead being exceeded at B-6 is so slight that it is believed to possibly be an anomaly or an incident unrelated to the incident being investigated. However, CW³M cannot unequivocally state this and is therefore recommending two soil samples to better define the soil plume on site. While drilling is being conducted, a boring for a TACO sample is also being proposed. Attached in Appendix G is an off-site affidavit for the property in which access was denied.

6.2 RECOMMENDATIONS

The results of the site investigation confirm that the extent of groundwater contamination is defined on and off site. On behalf of Mr. Mark Bayley, the owner of the Huck's #131 / Maier's Grocery, CW³M proposes three additional boring locations for submittal to the IEPA based upon the contamination discovered upon Site Investigation to determine the soil plume on and off site as well as the TACO characteristics specific to the soil on site. Once the full extent of contaminants is determined, these results will be submitted in a SICR.

7. REFERENCES

AET, 2009. Applied Environmental Technologies, Inc., *20-Day Report, Huck's #131 / Maier's Grocery*, Crossville, Illinois, December 30, 2009.

AET, 2010a. Applied Environmental Technologies, Inc., *45-Day Report, Huck's #131 / Maier's Grocery*, Crossville, Illinois, January 26, 2010.

AET, 2010b. Applied Environmental Technologies, Inc., *Site Investigation Plan and Budget Stage 2 / 3, Huck's #131 / Maier's Grocery*, Crossville, Illinois, November 17, 2010.

EPA.STATE.IL.US, 2013. Source Water Assessment Program, *Water Well Survey Map* www.maps.epa.state.il.us, accessed June 19, 2013.

IEPA, 2010a. Illinois Environmental Protection Agency, *45-Day Report Correspondence, Huck's #131 / Maier's Grocery*, Crossville, Illinois, February 4, 2010.

IEPA, 2010b. Illinois Environmental Protection Agency, *Stage 2 / 3 Site Investigation Plan and Budget Correspondence, Huck's #131 / Maier's Grocery*, Crossville, Illinois, October 20, 2010.

ISGS, 1956. Lidia F. Selkregg and John P. Kempton, *Groundwater Geology in Southern Illinois*, Illinois State Geological Survey, Circular 212, 1956.

ISGS, 1975. H. B. William, et al., *Handbook of Illinois Stratigraphy*, Illinois State Geological Survey, Bulletin 95, 1975.

ISGS, 1984. R. Berg, et al., *Potential for Contamination of Shallow Aquifers in Illinois*, Illinois State Geological Survey, Circular 532, 1984.

ISGS, 1988. R. Berg, and J. Kempton, Illinois State Geological Survey Circular 542, *Stack-Unit Mapping of Geologic Materials in Illinois to a Depth of 15 Meters*, 1988.

Weather.com, 2013. Carmi, Illinois, www.weather.com, accessed June 19, 2013.

APPENDIX A

SITE INVESTIGATION PLAN FORM

AMENDED STAGE 2 / 3 SITE INVESTIGATION PLAN AND BUDGET

**HUCK'S #131 / MAIERS GROCERY
CROSSVILLE, ILLINOIS**



Illinois Environmental Protection Agency

Bureau of Land • 1021 N. Grand Avenue E. • P.O. Box 19276 • Springfield • Illinois • 62794-9276

The Agency is authorized to require this information under Section 4 and Title XVI of the Environmental Protection Act (415 ILCS 5/4, 5/57 - 57.17). Failure to disclose this information may result in a civil penalty of not to exceed \$50,000.00 for the violation and an additional civil penalty of not to exceed \$10,000.00 for each day during which the violation continues (415 ILCS 5/42). Any person who knowingly makes a false material statement or representation, orally or in writing, in any label, manifest, record, report, permit, or license, or other document filed, maintained or used for the purpose of compliance with Title XVI commits a Class 4 felony. Any second or subsequent offense after conviction hereunder is a Class 3 felony (415 ILCS 5/44 and 57.17). This form has been approved by the Forms Management Center.

Leaking Underground Storage Tank Program Site Investigation Plan

A. Site Identification

IEMA Incident # (6- or 8- digit): 09-1397 IEPA LPC # (10- digit): 1930155021

Site Name: Huck's #131 / Maiers Grocery

Site Address (not a P.O. Box): 109 South State Street

City: Crossville County: White Zip Code: 62821

Leaking UST Technical File

B. Site Information

1. Will the owner or operator seek payment from the Underground Storage Tank Fund? Yes No
2. If yes, is the budget attached? Yes No

C. Site Investigation

Provide the following:

1. Stage of investigation
 - a. Stage 2
 - b. Stage 3
2. Summary of Stage 1 or 2 site investigation activities;
3. Characterization of site and surrounding area:
 - a. Current and projected post-remediation uses;
 - b. Physical setting:
 - i. Environmental conditions;
 - ii. Geologic, hydrogeologic, and hydrologic conditions; and
 - iii. Geographic and topographic conditions;
4. Results of Stage 1 or 2 site investigation:
 - a. Map(s) showing locations of all borings and groundwater monitoring wells completed to date and groundwater flow direction;
 - b. Map(s) showing locations of all samples collected;
 - c. Map(s) showing extents of soil and groundwater contamination that exceeds the most stringent Tier 1 remediation objectives;
 - d. Cross-section(s) showing the geology and the horizontal and vertical extents of soil and groundwater contamination that exceeds the most stringent Tier 1 remediation objectives;
 - e. Analytical results, chain of custody forms, and laboratory certifications;

RECEIVED

JUL 19 2013

IEPA/BOL

- f. Table(s) comparing analytical results to the most stringent Tier 1 remediation objectives (include sample depth, date collected, and detection limits);
 - g. Potable water supply well survey (unless provided in previous plan):
 - i. Map(s) to scale showing:
 - a) Locations of community water supply wells and other potable wells and the setback zone for each well;
 - b) Location and extent of regulated recharge areas and wellhead protection areas;
 - c) Extent of groundwater contamination exceeding the most stringent Tier 1 remediation objectives; and
 - d) Modeled extent of groundwater contamination exceeding the most stringent Tier 1 remediation objectives (if performed as part of site investigation);
 - ii. Table(s) listing the setback zones for each community water supply well and other potable water supply wells;
 - iii. A narrative identifying each entity contacted to identify potable water supply wells, the name and title of each person contacted, and any field observations associated with any wells identified; and
 - iv. A certification from a Licensed Professional Engineer or Licensed Professional Geologist that the survey was conducted in accordance with the requirements and that documentation submitted includes information obtained as a result of the survey;
 - h. Soil boring logs and monitoring well construction diagrams;
 - i. Proposal for determining the following parameters:
 - i. Hydraulic conductivity (K);
 - ii. Soil bulk density (p_b);
 - iii. Soil particle density (p_s);
 - iv. Moisture content (w); and
 - v. Organic carbon content (f_{oc}); and
 - j. Budget forms of actual costs (documenting actual work performed during the previous stage).
- 5. Stage 2 or 3 sampling plan:
 - a. Description of and justification for additional activities proposed as part of the plan;
 - b. A map depicting locations of proposed borings and groundwater monitoring wells; and
 - c. Depth of borings/wells and construction details of proposed borings and wells; and
 - 6. Site maps meeting the requirements of 35 Ill. Adm. Code 734.440.

Continue onto next page.

D. Signatures

All plans, budgets, and reports must be signed by the owner or operator and list the owner's or operator's full name, address, and telephone number.

UST Owner or Operator

Name: Martin & Bayley, Inc.
Contact: Mark Bayley
Address: 1311A West Main Street
City: Carmi
State: Illinois
Zip Code: 62821
Phone: _____
Signature: [Signature]
Date: 7/15/13

Consultant

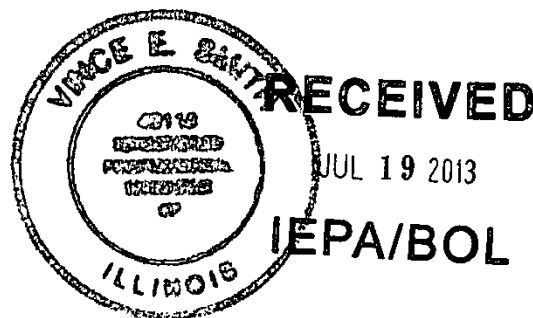
Company: CWM Company, Inc.
Contact: Carol Rowe
Address: 701 West South Grand Ave.
City: Springfield
State: Illinois
Zip Code: 62704
Phone: 217-522-8001
Signature: [Signature]
Date: July 18, 2013

I certify under penalty of law that all activities that are the subject of this report were conducted under my supervision or were conducted under the supervision of another Licensed Professional Engineer or Licensed Professional Geologist and reviewed by me; that this report and all attachments were prepared under my supervision; that, to the best of my knowledge and belief, the work described in this report has been completed in accordance with the Environmental Protection Act [415 ILCS 5], 35 Ill. Adm. Code 734, and generally accepted standards and practices of my profession; and that the information presented is accurate and complete. I am aware there are significant penalties for submitting false statements or representations to the Illinois EPA, including but not limited to fines, imprisonment, or both as provided in Sections 44 and 57.17 of the Environmental Protection Act [415 ILCS 5/44 and 57.17].

Licensed Professional Engineer or Geologist

L.P.E. or L.P.G. Seal

Name: Vince E. Smith
Company: CWM Company, Inc.
Address: 701 West South Grand Ave.
City: Springfield
State: Illinois
Zip Code: 62704
Phone: 217-522-8001
Ill. Registration No.: 062-046118
License Expiration Date: Nov 30, 2013
Signature: [Signature]
Date: 7/18/13



APPENDIX B

SITE MAPS AND ILLUSTRATIONS

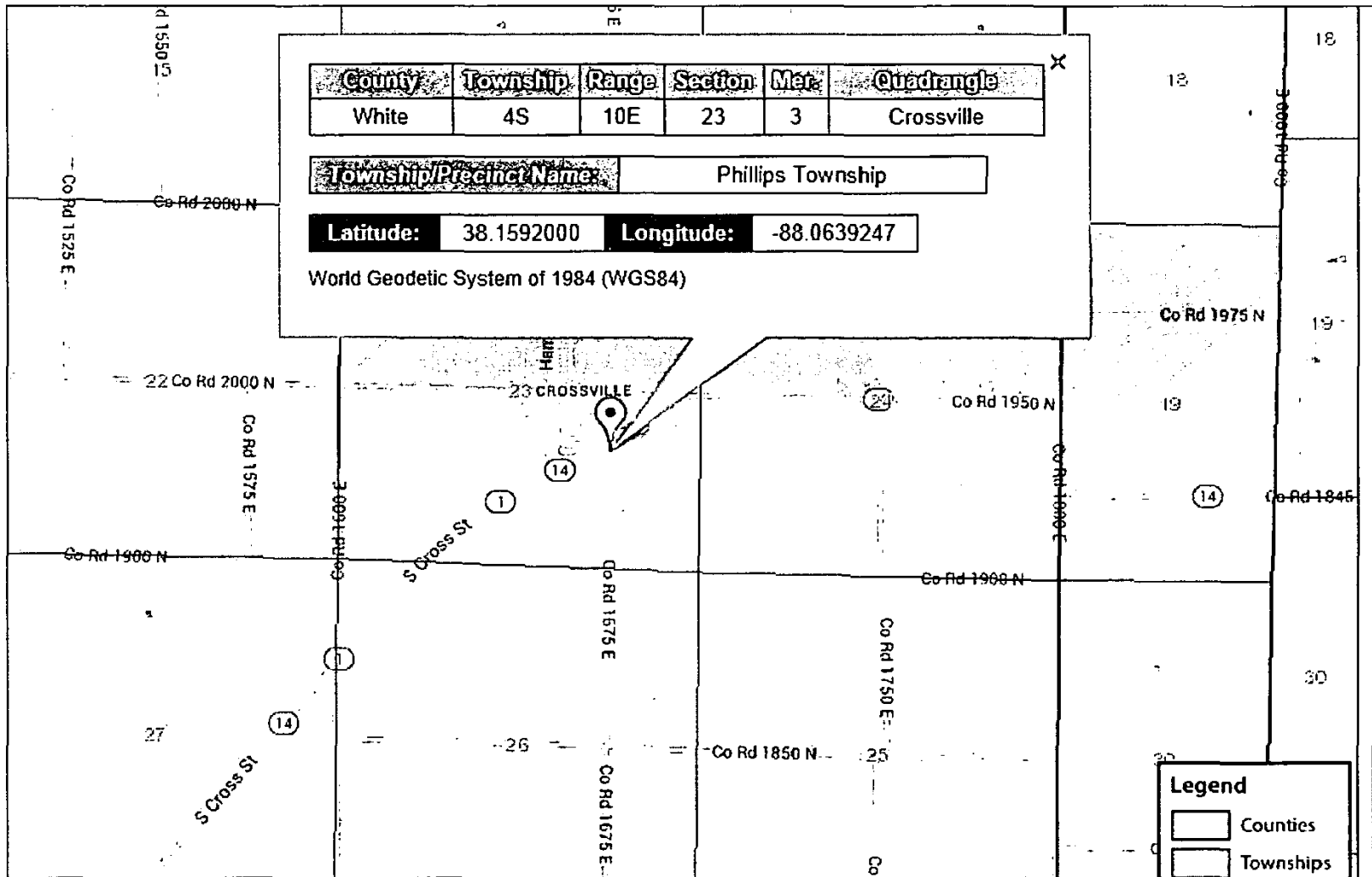
AMENDED STAGE 2 / 3 SITE INVESTIGATION PLAN AND BUDGET

HUCK'S #131 / MAIERS GROCERY CROSSVILLE, ILLINOIS

CW²M Company, Inc.
Amended Stage 2 / 3 Site Investigation
Huck's #131 / Maier's Grocery – Crossville
LPC #1930155021 – Incident Number 2009-1397

INDEX OF DRAWINGS

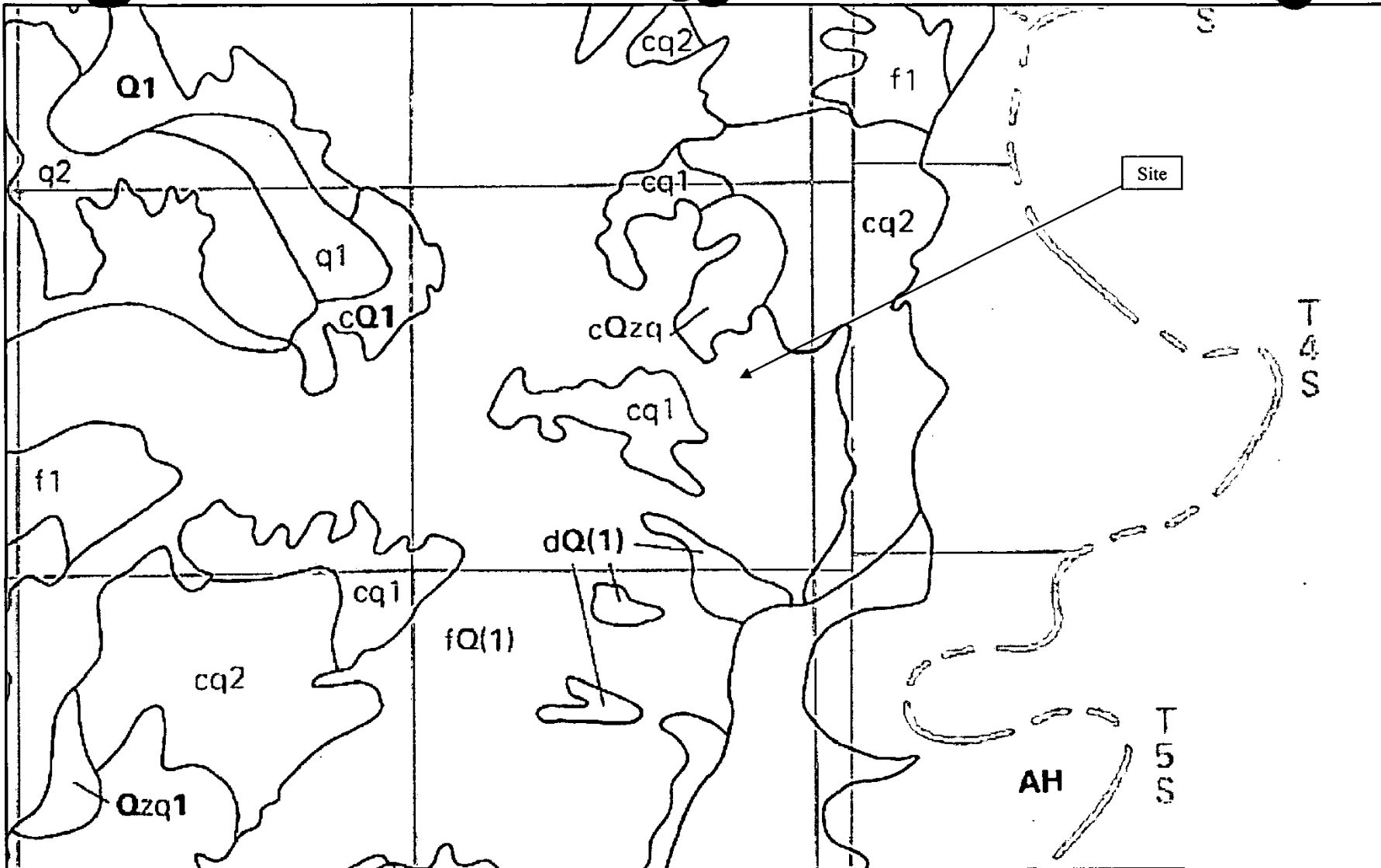
Drawing Number	Description
0001	Section Township Range Map
0001A	Stack Unit Map
0001B	Geological Susceptibility Map
0001C	Well Map
0002	Site Map
0003	Early Action Excavation Map
0004	Early Action Sample Map
0005	Soil Boring Location Map
0006	Benzene Soil Contamination Plume Map
0007	Lead Value Map
0008	Proposed Soil Boring Location Map
0010	Monitoring Well Location Map
0011	Monitoring Well Elevation Map
0012	Groundwater Elevation Map
0013	Groundwater Plume Map



CW³M Company, Inc.
 701 South Grand Avenue West
 Springfield, IL 62704
 (217)-522-8001

Section Township Range Map
 109 South State Street
 Crossville, Illinois

Drawn By: BMW
 Reviewed By: CLR
 Drawing 0001
 STRMap.doc



CW³M Company, Inc.
 701 South Grand Avenue West
 Springfield, IL 62704
 (217)-522-8001

Stack Unit Map
 109 South State Street
 Crossville, Illinois

Drawn By: BMW
 Reviewed By: CLR
 Drawing 0001A
 StackMap.doc

000404

**The appearance of some of the images
following this page is due to**

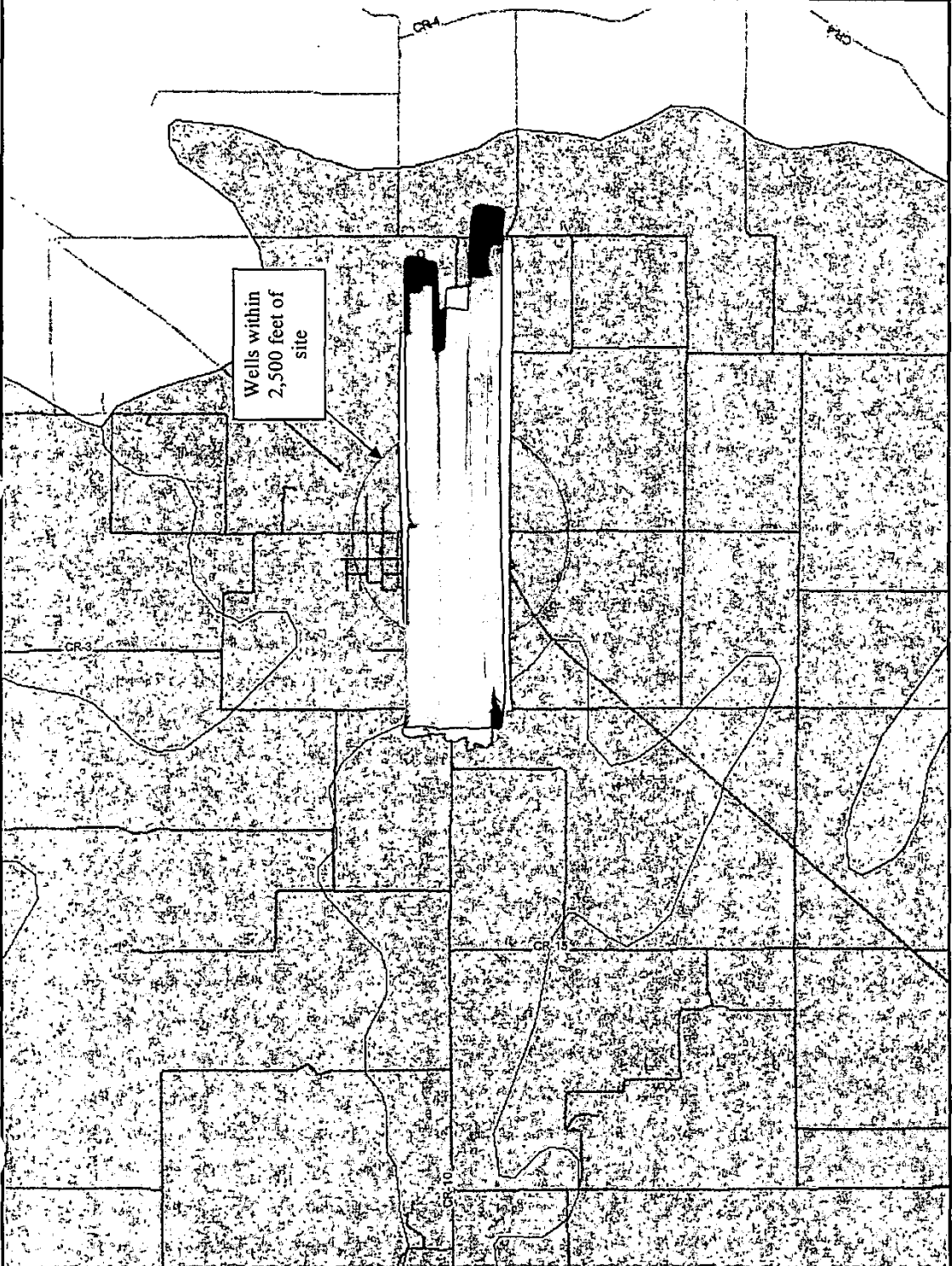
Poor Quality Original Documents

and not the scanning or filming processes.

**Com Microfilm Company
(217) 525-5860**

Legend
 theBufferPolygons
 theBufferTarget
 County lines
 State line
 Geologic Susceptibility
 (ISGS Circular 532)

- | | | |
|-------------------------------------|-------------|-------------|
| A1 (Higher geologic susceptibility) | Water | Local Roads |
| A2 | Minor roads | Major Roads |
| A3 | | |
| A4 | | |
| A5 | | |
| AK | | |
| B1 | | |
| B2 | | |
| BX | | |
| C1 | | |
| C2 | | |
| C3 | | |
| C4 | | |
| C5 | | |
| D | | |
| E | | |
| F (Lower geologic susceptibility) | | |

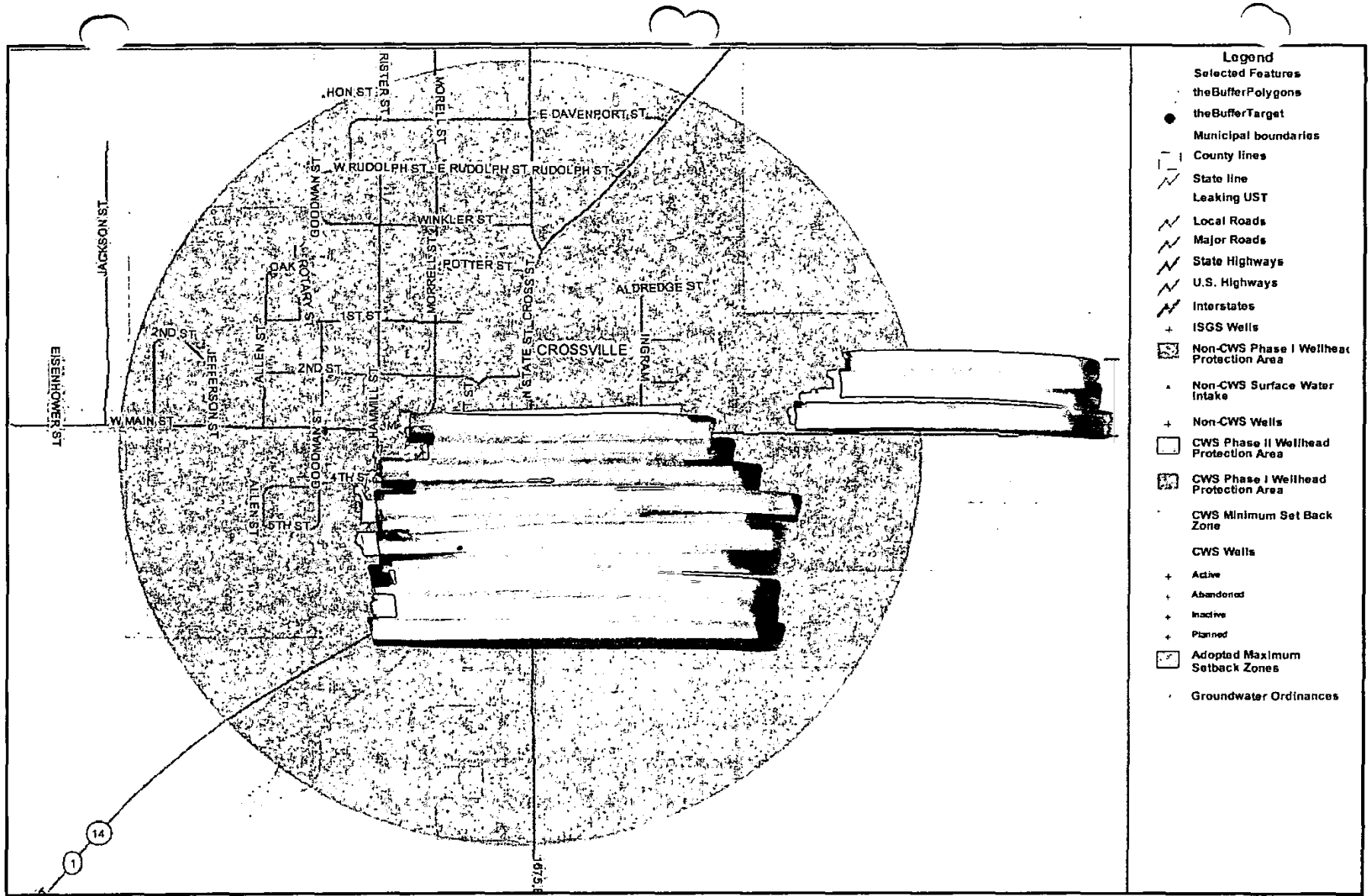


Wells within
 2,500 feet of
 site

Drawn By: BMW
 Reviewed By: CLR
 Drawing 0001B
 GeoMap.doc

Geologic Susceptibility Map
 109 South State Street
 Crossville, Illinois

CW²M Company, Inc.
 701 South Grand Avenue West
 Springfield, IL 62704
 (217)-522-8001

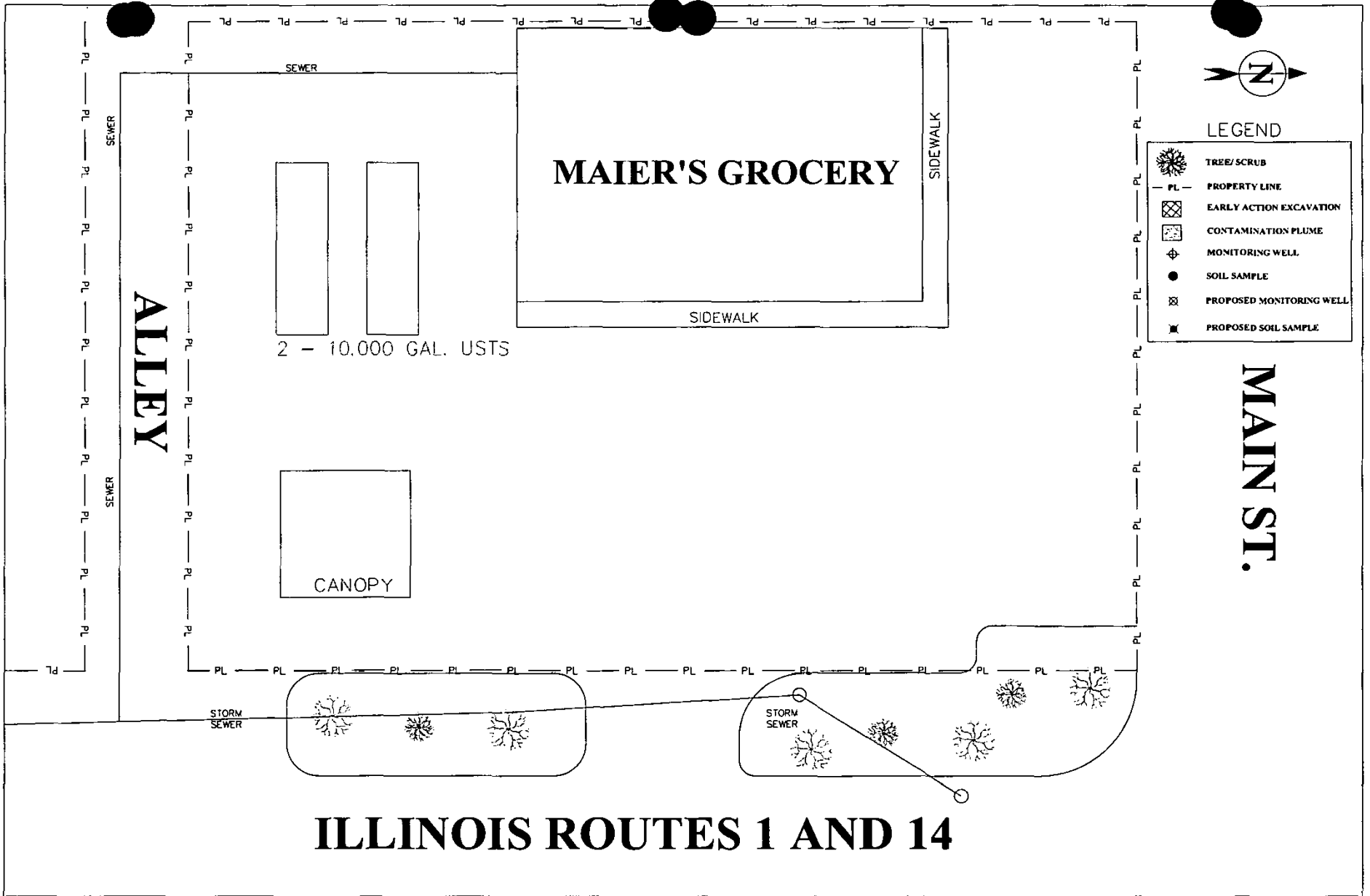


- Legend**
- Selected Features
 - theBufferPolygons
 - theBufferTarget
 - Municipal boundaries
 - County lines
 - State line
 - Leaking UST
 - Local Roads
 - Major Roads
 - State Highways
 - U.S. Highways
 - Interstates
 - ISGS Wells
 - Non-CWS Phase I Wellhead Protection Area
 - Non-CWS Surface Water Intake
 - Non-CWS Wells
 - CWS Phase II Wellhead Protection Area
 - CWS Phase I Wellhead Protection Area
 - CWS Minimum Set Back Zone
 - CWS Wells
 - Active
 - Abandoned
 - Inactive
 - Planned
 - Adopted Maximum Setback Zones
 - Groundwater Ordinances

CW³M Company, Inc.
 701 South Grand Avenue West
 Springfield, IL 62704
 (217)-522-8001

Community Water Supply Well Map
 109 South State Street
 Crossville, Illinois

Drawn By: BMW
 Reviewed By: CLR
 Drawing 0001C
 WellMap.doc



CWM COMPANY, INC.
 701 W. SOUTH GRAND
 SPRINGFIELD, IL. 62704
 (217) 522-8001

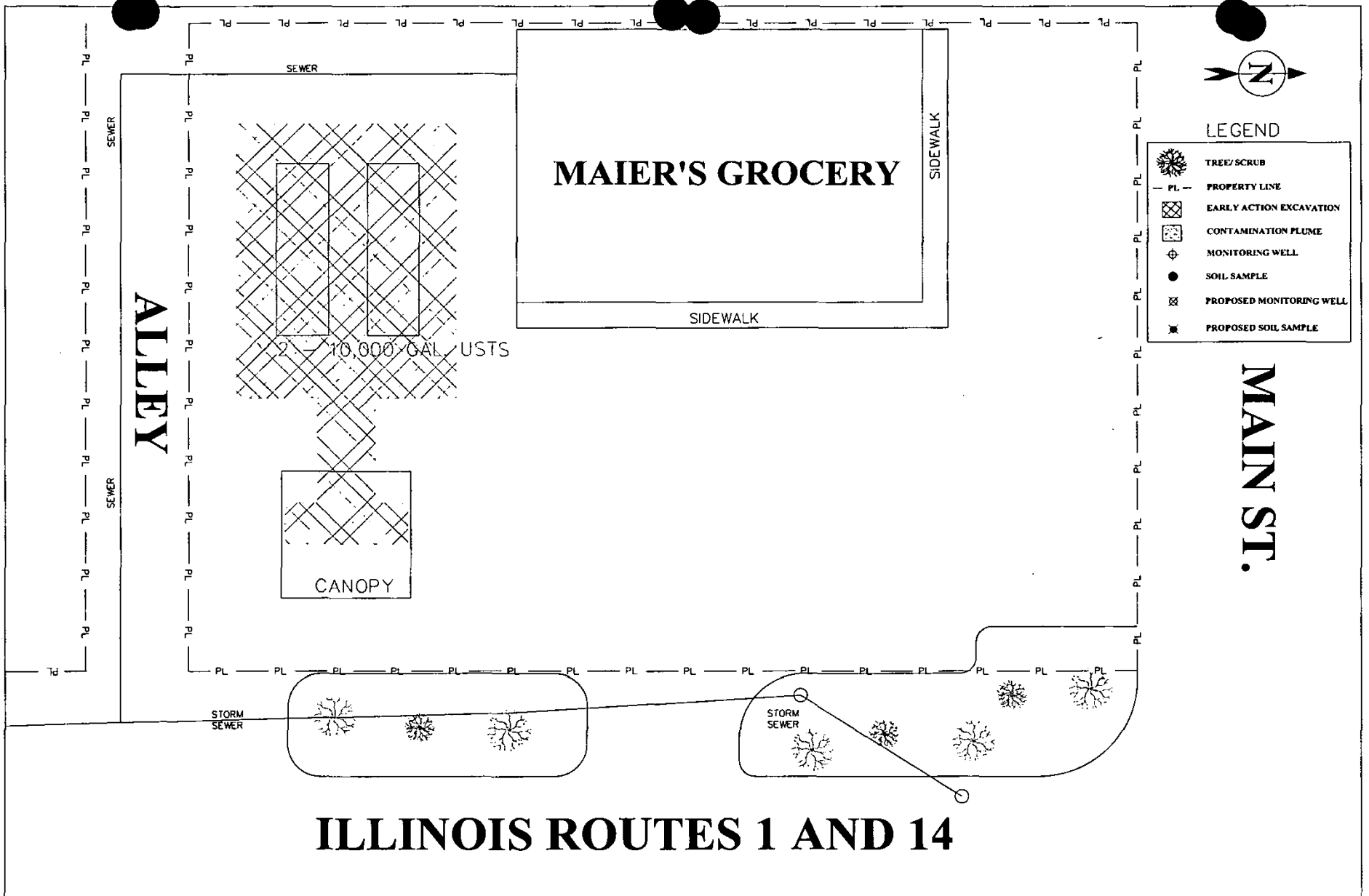
HUCK'S #131 / MAIERS
 GROCERY
 CROSSVILLE, ILLINOIS
 INCIDENT #09-1397
 WHITE COUNTY

SITE MAP

DATE: 7/16/13
 REVISED DATE:
 SCALE 1"=20'
 DRAWING: 0002

DRAWN BY: BMW
 REVISED BY:
 REVIEWED BY: CLR

000408



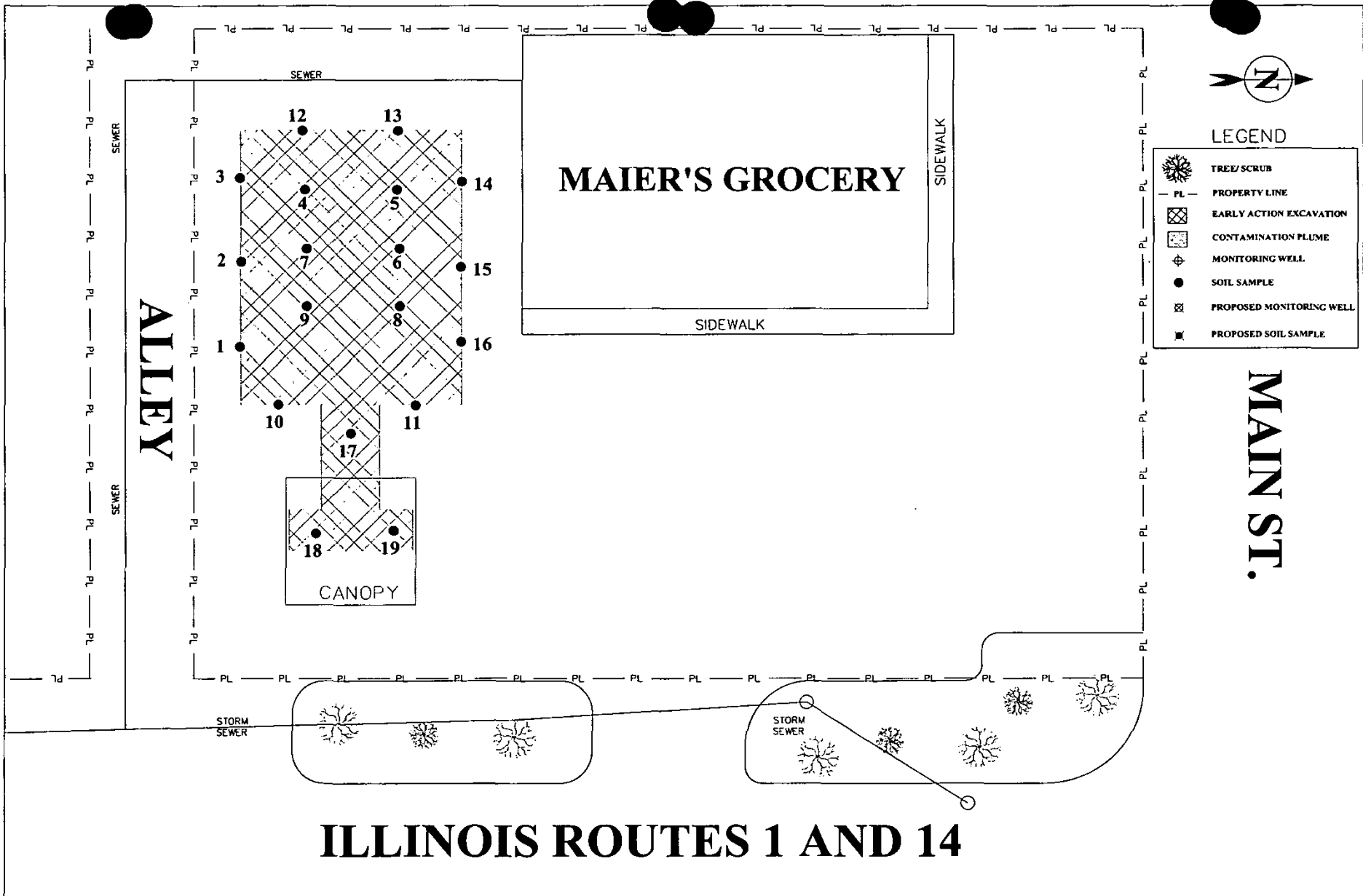
LEGEND

- TREE/SCRUB
- PROPERTY LINE
- EARLY ACTION EXCAVATION
- CONTAMINATION PLUME
- MONITORING WELL
- SOIL SAMPLE
- PROPOSED MONITORING WELL
- PROPOSED SOIL SAMPLE

ILLINOIS ROUTES 1 AND 14

<p>CWM COMPANY, INC. 701 W. SOUTH GRAND SPRINGFIELD, IL. 62704 (217) 522-8001</p>	<p>HUCK'S #131 / MAIERS GROCERY CROSSVILLE, ILLINOIS INCIDENT #09-1397 WHITE COUNTY</p>	<p>EARLY ACTION EXCAVATION MAP</p>	<p>DATE: 7/16/13 REVISED DATE: SCALE 1"=20' DRAWING: 0003</p>	<p>DRAWN BY: BMW REVISED BY: REVIEWED BY: CLR</p>
---	---	--	---	---

000409



CWM COMPANY, INC.
 701 W. SOUTH GRAND
 SPRINGFIELD, IL. 62704
 (217) 522-8001

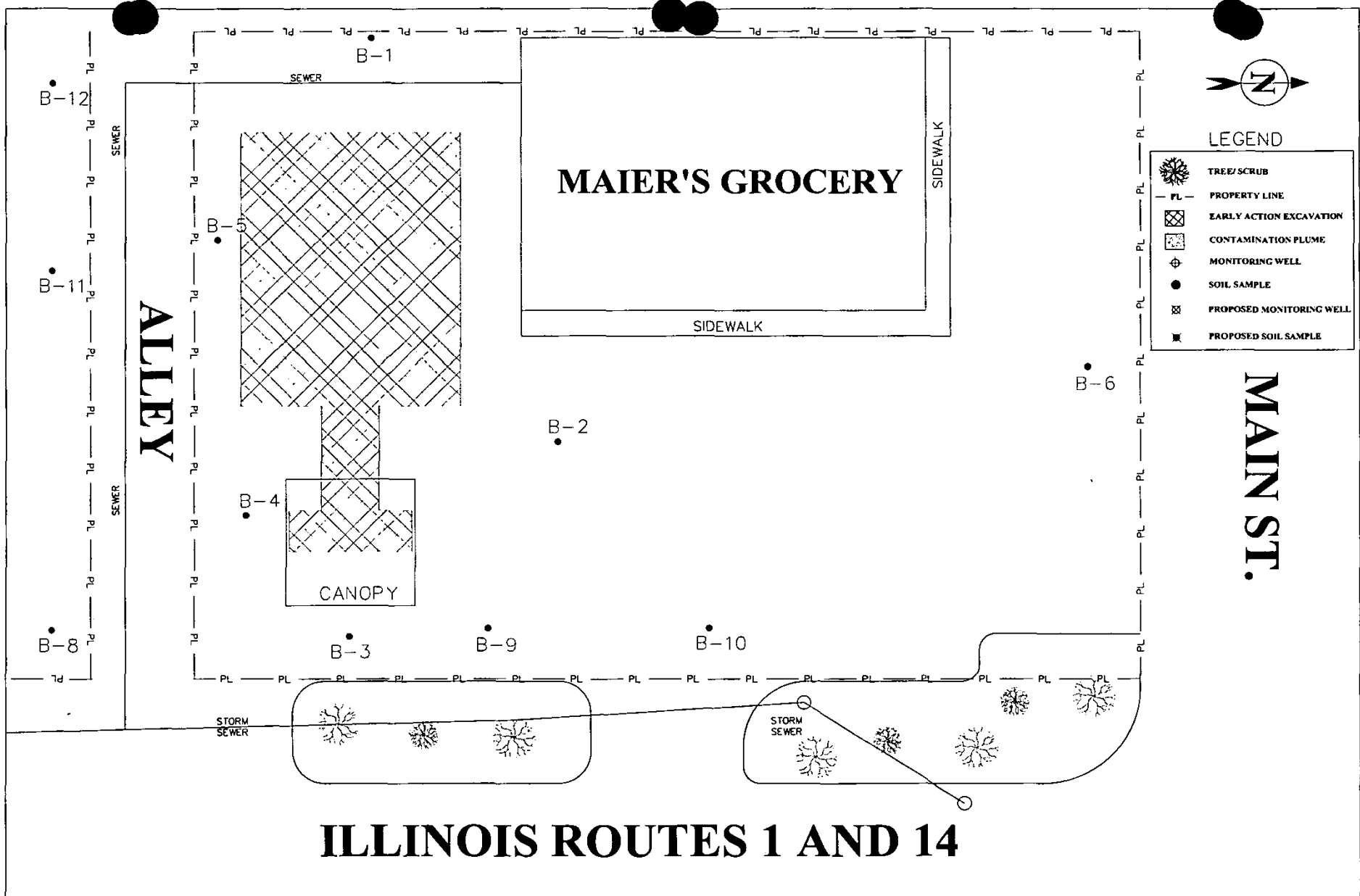
HUCK'S #131 / MAIERS
 GROCERY
 CROSSVILLE, ILLINOIS
 INCIDENT #09-1397
 WHITE COUNTY

EARLY ACTION
 SAMPLE MAP

DATE: 7/16/13
 REVISED DATE:
 SCALE 1"=20'
 DRAWING: 0004

DRAWN BY: BMW
 REVISED BY:
 REVIEWED BY: CLR

000410



ILLINOIS ROUTES 1 AND 14

CWM COMPANY, INC.
 701 W. SOUTH GRAND
 SPRINGFIELD, IL. 62704
 (217) 522-8001

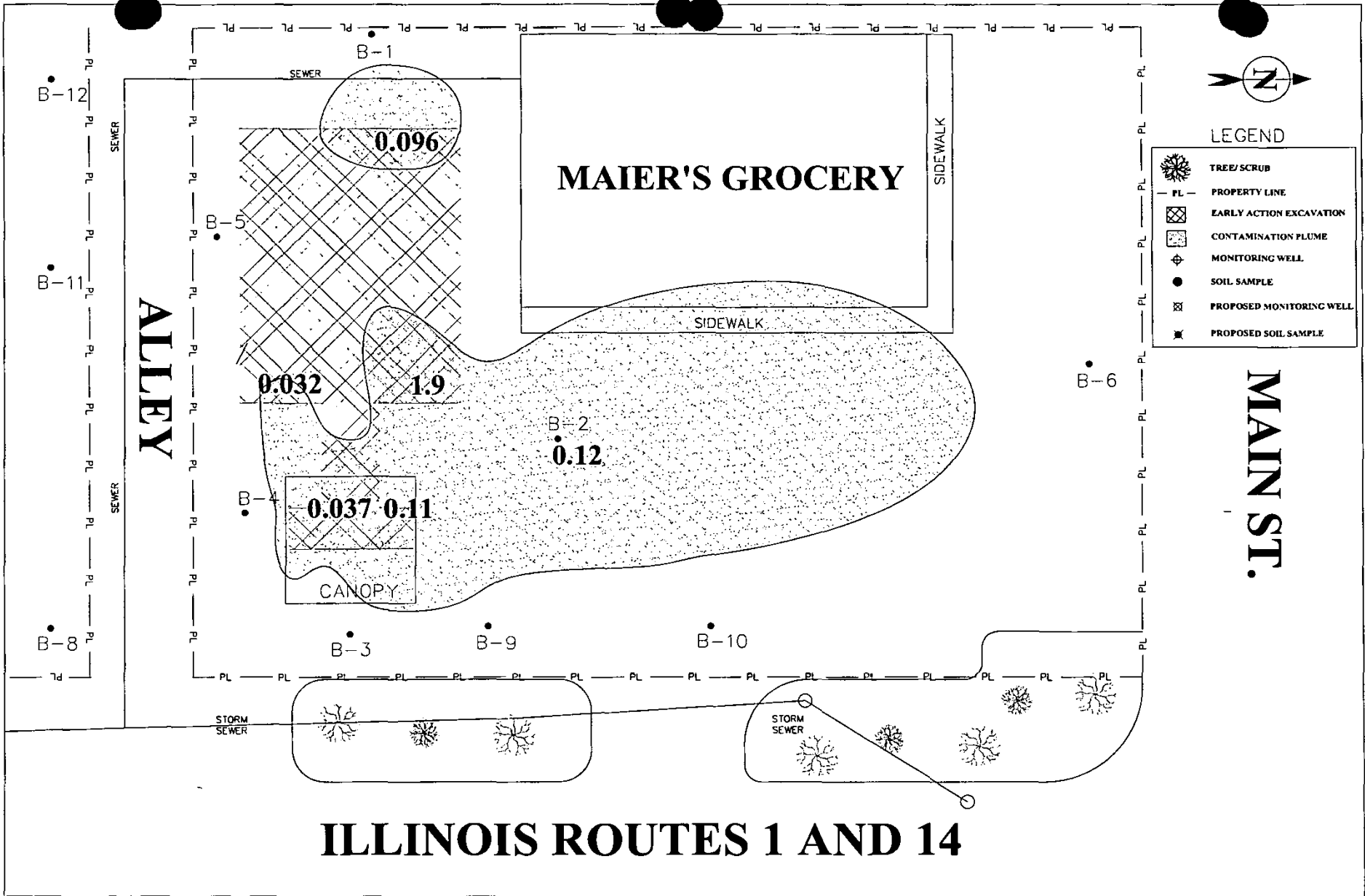
HUCK'S #131 / MAIERS
 GROCERY
 CROSSVILLE, ILLINOIS
 INCIDENT #09-1397
 WHITE COUNTY

SOIL BORING LOCATION
 MAP

DATE: 7/16/13
 REVISED DATE:
 SCALE 1"=20'
 DRAWING: 0005

DRAWN BY: BMW
 REVISED BY: MDR
 REVIEWED BY: CLR

000411



ILLINOIS ROUTES 1 AND 14

CWM COMPANY, INC.
 701 W. SOUTH GRAND
 SPRINGFIELD, IL. 62704
 (217) 522-8001

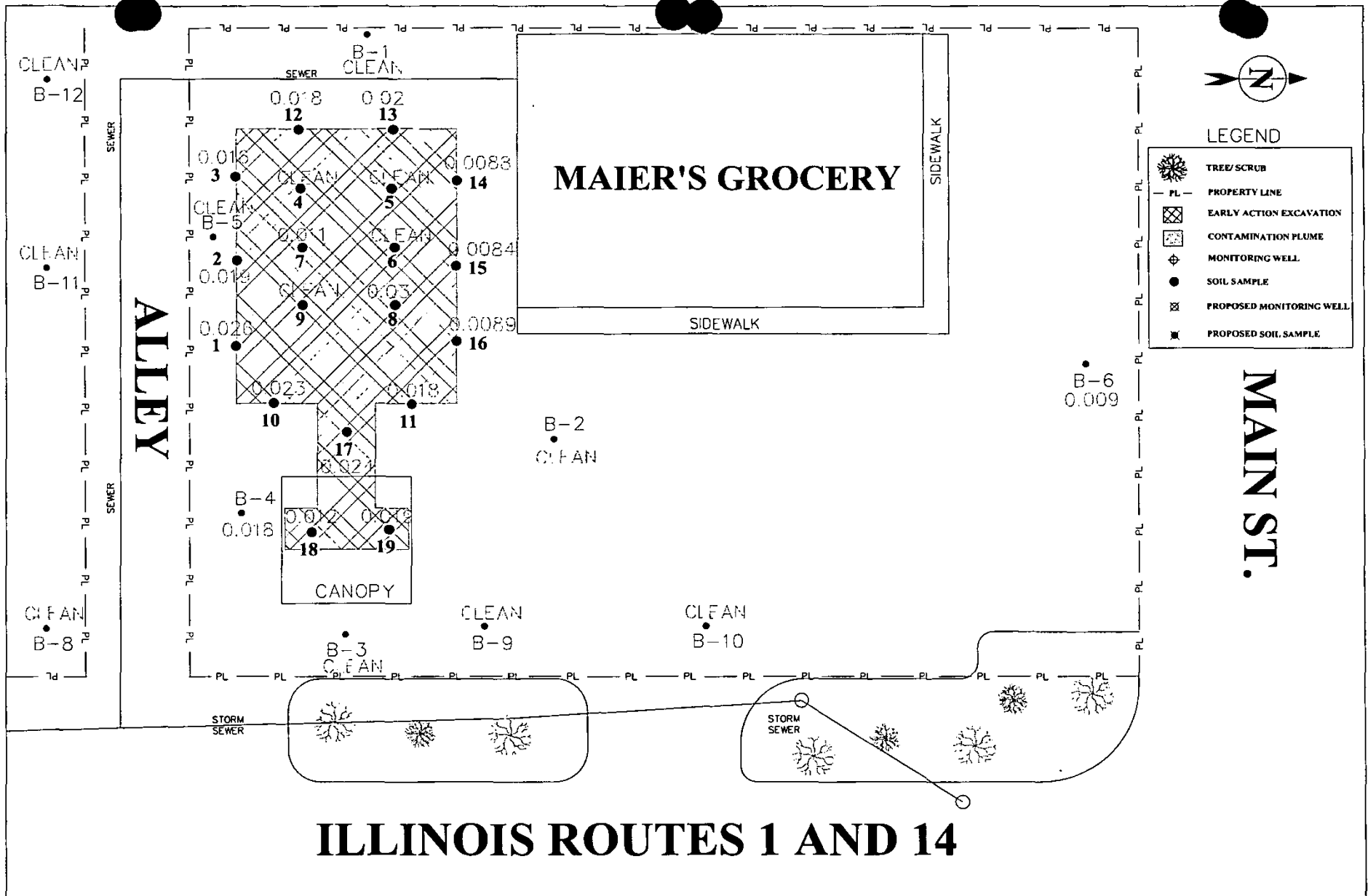
HUCK'S #131 / MAIERS
 GROCERY
 CROSSVILLE, ILLINOIS
 INCIDENT #09-1397
 WHITE COUNTY

BENZENE SOIL
 CONTAMINATION
 PLUME MAP

DATE: 7/16/13
 REVISED DATE:
 SCALE 1"=20'
 DRAWING: 0006

DRAWN BY: BMW
 REVISED BY: MDR
 REVIEWED BY: CLR

000412



CWM COMPANY, INC.
 701 W. SOUTH GRAND
 SPRINGFIELD, IL. 62704
 (217) 522-8001

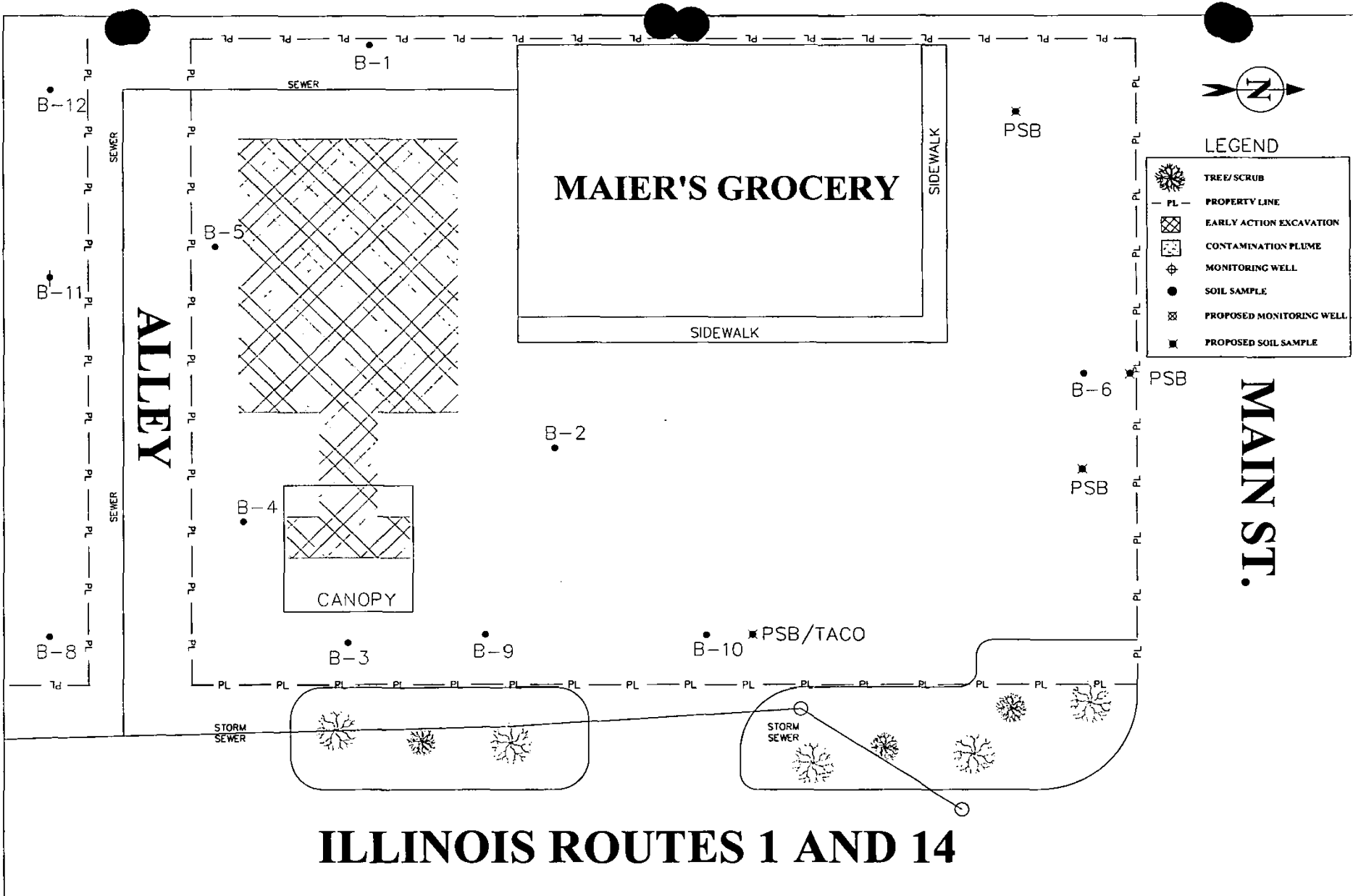
**HUCK'S #131 / MAIERS
 GROCERY**
 CROSSVILLE, ILLINOIS
 INCIDENT #09-1397
 WHITE COUNTY

LEAD VALUE MAP

DATE: 7/16/13
REVISED DATE:
SCALE 1"=20'
DRAWING: 0007

DRAWN BY: BMW
REVISED BY: MDR
REVIEWED BY: CLR

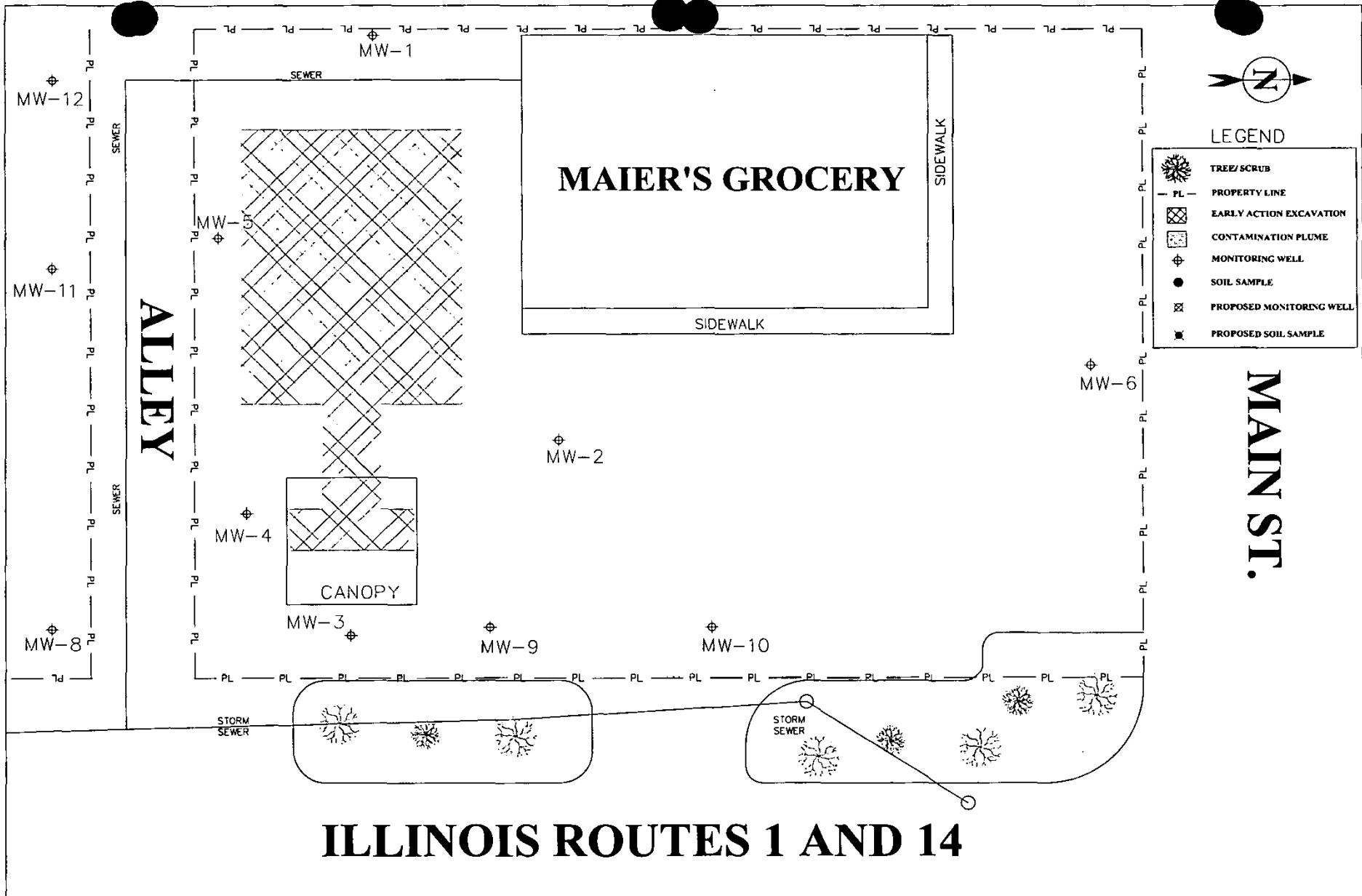
000413



ILLINOIS ROUTES 1 AND 14

<p>CWM COMPANY, INC. 701 W. SOUTH GRAND SPRINGFIELD, IL. 62704 (217) 522-8001</p>	<p>HUCK'S #131 / MAIERS GROCERY CROSSVILLE, ILLINOIS INCIDENT #09-1397 WHITE COUNTY</p>	<p>PROPOSED SOIL BORING LOCATION MAP</p>	<p>DATE: 7/16/13 REVISED DATE: SCALE 1"=20' DRAWING: 0008</p>	<p>DRAWN BY: BMW REVISED BY: MDR REVIEWED BY: CLR</p>
---	---	--	---	---

000414



CWM COMPANY, INC.
 701 W. SOUTH GRAND
 SPRINGFIELD, IL. 62704
 (217) 522-8001

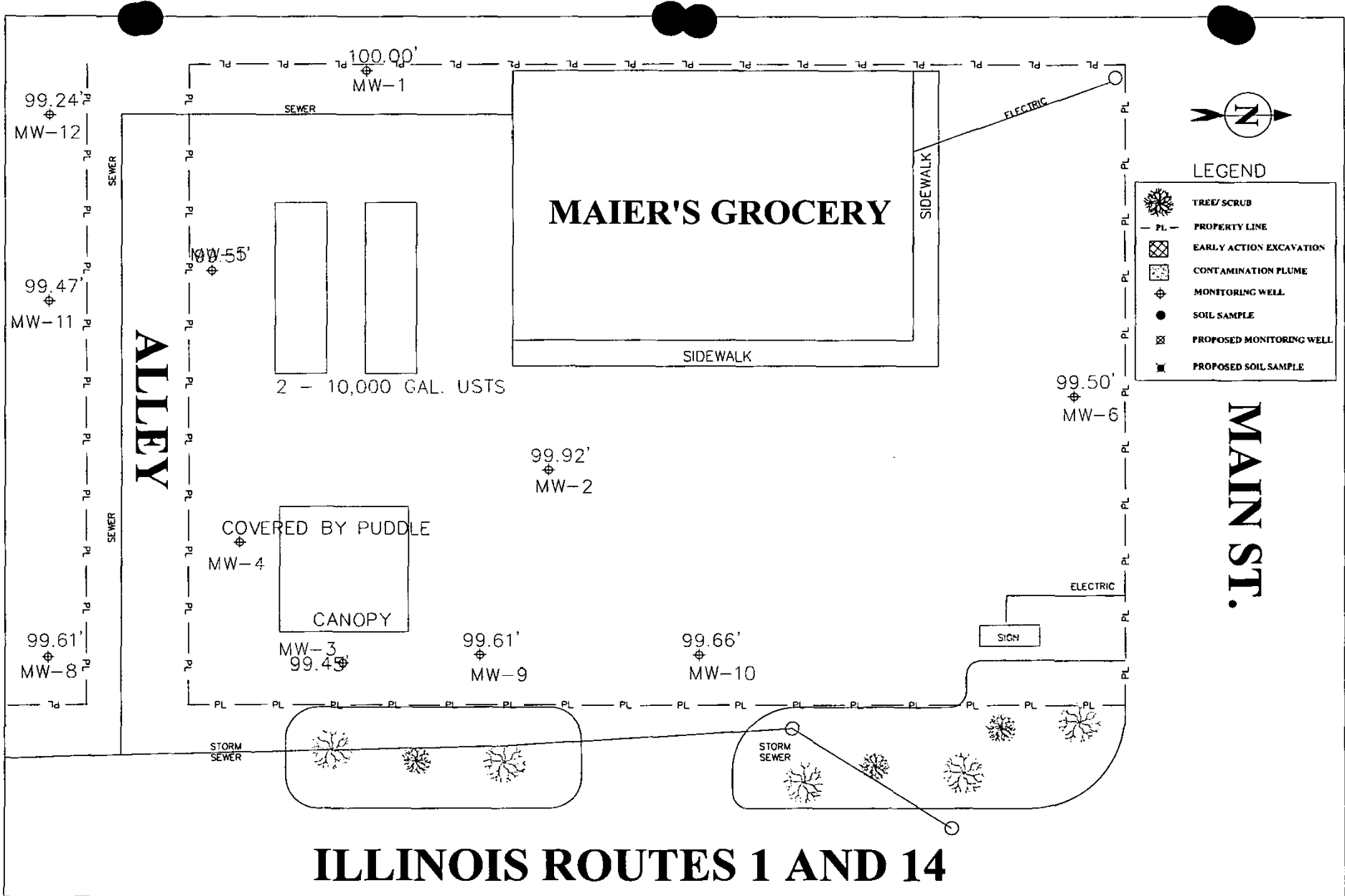
HUCK'S #131 / MAIERS
 GROCERY
 CROSSVILLE, ILLINOIS
 INCIDENT #09-1397
 WHITE COUNTY

MONITORING WELL
 LOCATION MAP

DATE: 7/16/13 -
 REVISED DATE:
 SCALE 1"=20'
 DRAWING: 0010

DRAWN BY: BMW
 REVISED BY: MDR
 REVIEWED BY: CLR

000415



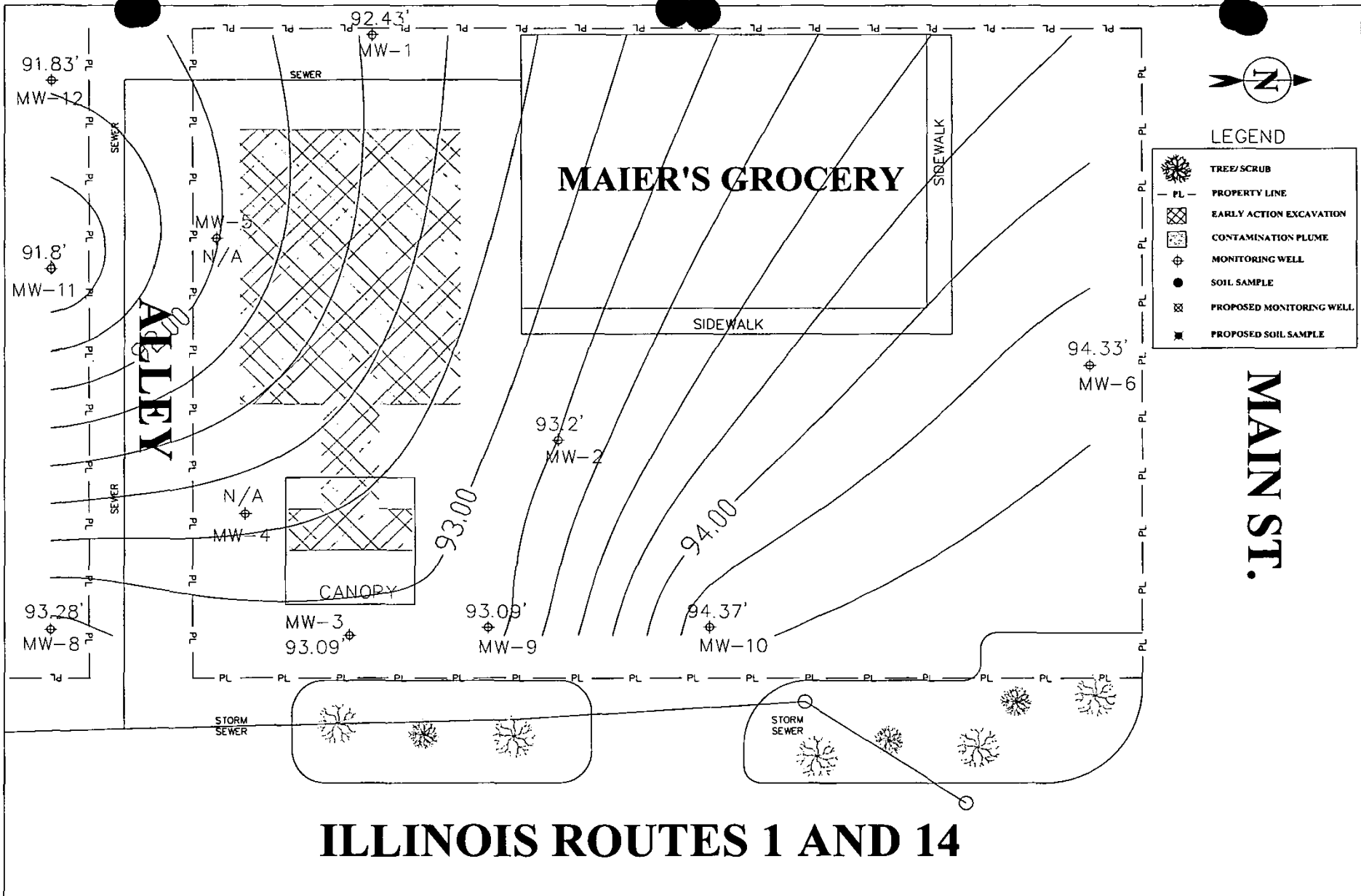
CWM COMPANY, INC.
701 W. SOUTH GRAND
SPRINGFIELD, IL. 62704
(217) 522-8001

HUCK'S #131 / MAIERS
GROCERY
CROSSVILLE, ILLINOIS
INCIDENT #09-1397
WHITE COUNTY

MONITORING WELL
ELEVATION MAP

DATE: 6/20/13
REVISED DATE:
SCALE 1"=20'
DRAWING: 0011

DRAWN BY: BMW
REVISED BY:
REVIEWED BY: CLR
MWelev.dwg



CWM COMPANY, INC.
 701 W. SOUTH GRAND
 SPRINGFIELD, IL. 62704
 (217) 522-8001

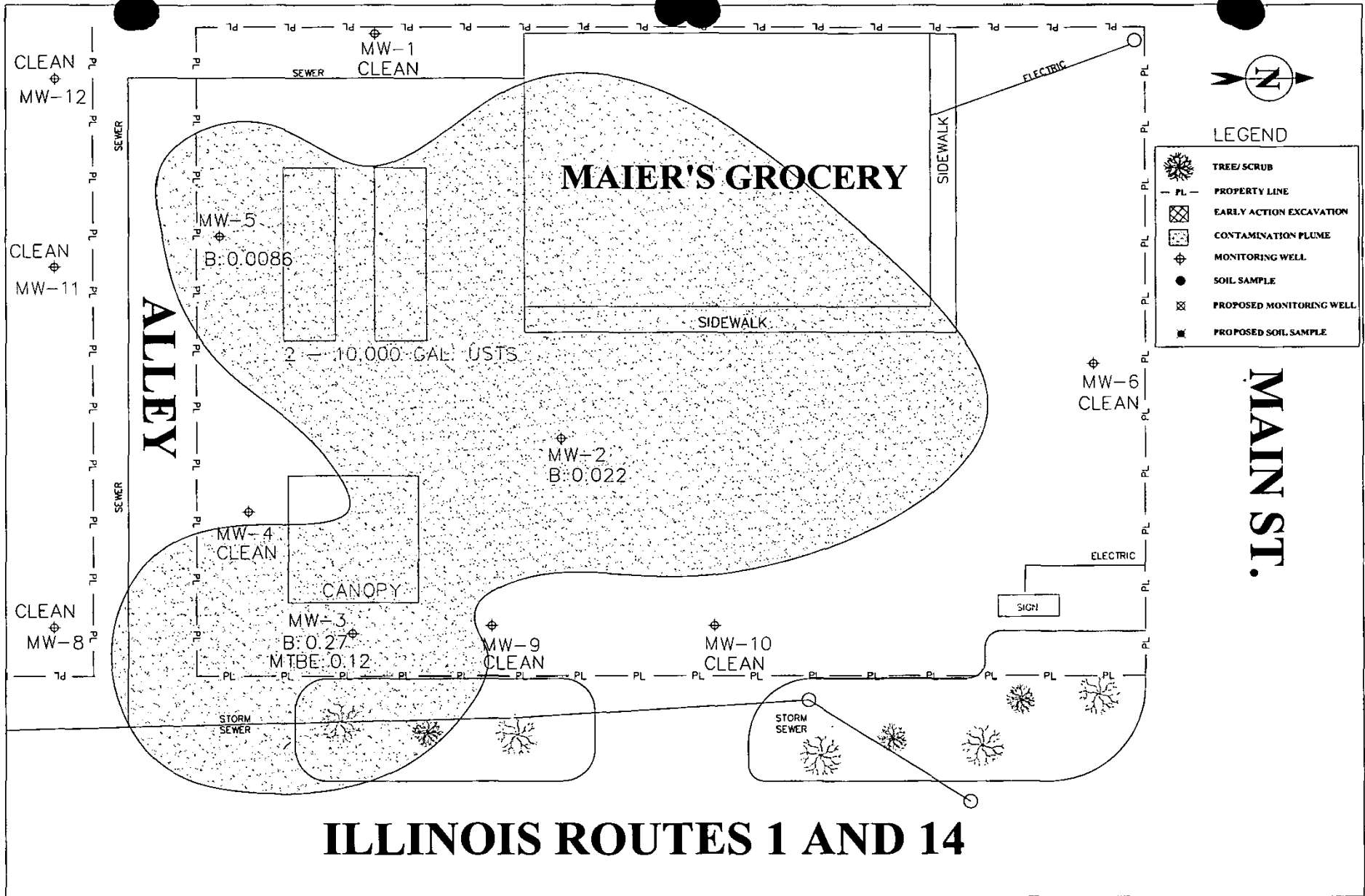
**HUCK'S #131 / MAIERS
 GROCERY**
 CROSSVILLE, ILLINOIS
 INCIDENT #09-1397
 WHITE COUNTY

**GROUDWATER
 ELEVATION MAP**

DATE: 7/16/13
REVISED DATE:
SCALE 1"=20'
DRAWING: 0012

DRAWN BY: BMW
REVISED BY: MDR
REVIEWED BY: CLR

000417



ILLINOIS ROUTES 1 AND 14

CWM COMPANY, INC.
 701 W. SOUTH GRAND
 SPRINGFIELD, IL. 62704
 (217) 522-8001

**HUCK'S #131 / MAIERS
 GROCERY
 CROSSVILLE, ILLINOIS
 INCIDENT #09-1397
 WHITE COUNTY**

**GROUNDWATER PLUME
 MAP**

**DATE: 7/16/13
 REVISED DATE:
 SCALE 1"=20'
 DRAWING: 0013**

**DRAWN BY: BMW
 REVISED BY: MDR
 REVIEWED BY: CLR**

000418

APPENDIX C

ILLINOIS OFFICE OF THE STATE FIRE MARSHAL ELIGIBILITY DETERMINATION

AMENDED STAGE 2 / 3 SITE INVESTIGATION PLAN AND BUDGET

**HUCK'S #131 / MAIERS GROCERY
CROSSVILLE, ILLINOIS**



Office of the Illinois
State Fire Marshal
"Partnering With the Fire Service to Protect Illinois"

CERTIFIED MAIL - RECEIPT REQUESTED #7009 2250 0003 8632 1666

March 18, 2010

Martin & Bayley, Inc.
928 County Road 1350 North
Carmi, IL 62821

In Re: Facility No. 7-021663
IEMA Incident No. 09-1397
Meier Grocery #131
109 South State Highway 1
Crossville, White Co., IL

Dear Applicant:

The Reimbursement Eligibility and Deductible Application received on February 16, 2010 for the above referenced occurrence has been reviewed. The following determinations have been made based upon this review.

It has been determined that you are eligible to seek payment of costs in excess of **\$10,000**. The costs must be in response to the occurrence referenced above and associated with the following tanks:

Eligible Tanks

Tank 1 10,000 gallon Gasoline
Tank 2 10,000 gallon Gasoline

You must contact the Illinois Environmental Protection Agency to receive a packet of Agency billing forms for submitting your request for payment.

An owner or operator is eligible to access the Underground Storage Tank Fund if the eligibility requirements are satisfied:

1. Neither the owner nor the operator is the United States Government,
2. The tank does not contain fuel which is exempt from the Motor Fuel Tax Law,
3. The costs were incurred as a result of a confirmed release of any of the following substances:

"Fuel", as defined in Section 1.19 of the Motor Fuel Tax Law

Aviation fuel

Heating oil

Kerosene

1035 Stevenson Drive • Springfield, IL 67203-4259
Printed on Recycled Paper

Used oil, which has been refined from crude oil used in a motor vehicle, as defined in Section 1.3 of the Motor Fuel Tax Law.

4. The owner or operator registered the tank and paid all fees in accordance with the statutory and regulatory requirements of the Gasoline Storage Act.
5. The owner or operator notified the Illinois Emergency Management Agency of a confirmed release, the costs were incurred after the notification and the costs were a result of a release of a substance listed in this Section. Costs of corrective action or indemnification incurred before providing that notification shall not be eligible for payment.
6. The costs have not already been paid to the owner or operator under a private insurance policy, other written agreement, or court order.
7. The costs were associated with "corrective action".

This constitutes the final decision as it relates to your eligibility and deductibility. We reserve the right to change the deductible determination should additional information that would change the determination become available. An underground storage tank owner or operator may appeal the decision to the Illinois Pollution Control Board (Board), pursuant to Section 57.9 (c) (2). An owner or operator who seeks to appeal the decision shall file a petition for a hearing before the Board within 35 days of the date of mailing of the final decision, (35 Illinois Administrative Code 105.102(a) (2)).

For information regarding the filing of an appeal, please contact:

Dorothy Gunn, Clerk
Illinois Pollution Control Board
State of Illinois Center
100 West Randolph, Suite 11-500
Chicago, Illinois 60601
(312) 814-3620

The following tanks are also listed for this site:

Tank 3 8,000 gallon Gasoline
Tank 4 4,000 gallon Gasoline

Your application indicates that there has not been a release from these tanks under this incident number. You may be eligible to seek payment of corrective action costs associated with these tanks if it is determined that there has been a release from one or more of these tanks. Once it is determined that there has been a release from one or more of these tanks you may submit a separate application for an eligibility determination to seek corrective action costs associated with this/these tanks.

If you have any questions, please contact our Office at (217) 785-1020 or (217) 785-5878.

Sincerely,



Deanne Lock
Administrative Assistant
Division of Petroleum and Chemical Safety

cc: IEPA
Facility File

APPENDIX D

BORING LOGS AND WELL COMPLETION REPORTS

AMENDED STAGE 2 / 3 SITE INVESTIGATION PLAN AND BUDGET

**HUCK'S #131 / MAIERS GROCERY
CROSSVILLE, ILLINOIS**



INCIDENT #: 2009-1397	BOREHOLE NUMBER: B-6/MW-6
SITE NAME: Huck's #131 / Maiers Grocery	BORING LOCATION: 25'N and 10'E of NE Corner of Building
SITE ADDRESS: 109 South State Street Crossville, Illinois 62821	RIG TYPE: Truck mounted drill rig
DATE/TIME STARTED: 11/21/11 10:00am	DRILLING/SAMPLE METHOD: continuous sampling/hollow stem auger
DATE/TIME FINISHED: 11/21/11 10:30am	BACKFILL: well

DEPTH (FEET)	SOIL AND ROCK DESCRIPTION	USCS CLASS	Sample Recovery	PID (ppm)	Sample Type	SAMPLE NUMBER	REMARKS: (Odor, Color, Moisture, Penetrometer, etc.)
0	Concrete						
	Gravel Subbase						
1	Dark Brown Clayey Silt						
2							
3			80%	0	Grab	B-6 2.5'	MTBE, BETX, TCLP
4							
5	Light Brown Clayey Silt						
6							
8			90%	0	Grab	B-6 7.5'	MTBE, BETX, TCLP
9							wet at 8'
10							
11							
12							
13							
14							
15							

Stratification lines are approximate, in-situ transition between soil types may be gradual.

NOTES: Well to 15'

Manway / Surface Elevation: 99.50'			
Groundwater Depth While Drilling:	~ 8'-10'	Auger Depth:	Driller: CW M
Groundwater Depth After Drilling:	94.33'	Rotary Depth:	Geologist: MDR/JKT



INCIDENT #: 2009-1397	BOREHOLE NUMBER: B-8
SITE NAME: Huck's #131 / Maiers Grocery	BORING LOCATION: 50' E and 72' S of the South East corner of building
SITE ADDRESS: 109 South State Street Crossville, Illinois 62821	RIG TYPE: Truck mounted drill rig
DATE/TIME STARTED: 11/27/11 12:00pm	DRILLING/SAMPLE METHOD: continuous sampling/hollow stem auger
DATE/TIME FINISHED: 11/27/11 12:30pm	BACKFILL: well

DEPTH (FEET)	SOIL AND ROCK DESCRIPTION	USCS CLASS	Sample Recovery	PID (ppm)	Sample Type	SAMPLE NUMBER	REMARKS: (Odor, Color, Moisture, Penetrometer, etc.)
0	Grass						
1	Top Soil						
2	Brown Clayey Silt		90%	0	Grab	B-8 2.5'	MTBE, BETX, TCLP
3							
4							
5	Gray Mottle Brown Clayey Silt		90%	260	Grab	B-8 7.5'	Slight odor and discoloration from this point downward MTBE, BETX, TCLP wet at 8'
6							
7							
8	Well to 15'						
9							
10							
11	Well to 15'						
12							
13							
14	Well to 15'						
15							
16							

Stratification lines are approximate, in-situ transition between soil types may be gradual.

NOTES:

Manway / Surface Elevation:

Groundwater Depth While Drilling: ~8'	Auger Depth:	Driller: CW ¹ M
Groundwater Depth After Drilling:	Rotary Depth: 15'	Geologist: MDR/JKT



INCIDENT #: 2009-1397	BOREHOLE NUMBER: B-9/MW-9
SITE NAME: Huck's #131 / Maiers Grocery	BORING LOCATION: 55'E and 5'S of SE Corner of Building
SITE ADDRESS: 109 South State Street Crossville, Illinois 62821	RIG TYPE: Truck mounted drill rig
DATE/TIME STARTED: 11/21/11 11:30am	DRILLING/SAMPLE METHOD: continuous sampling/hollow stem auger
DATE/TIME FINISHED: 11/21/11 12:00pm	BACKFILL: well

DEPTH (FEET)	SOIL AND ROCK DESCRIPTION	USCS CLASS	Sample Recovery	PID (ppm)	Sample Type	SAMPLE NUMBER	REMARKS: (Odor, Color, Moisture, Penetrometer, etc.)
0	Concrete						
1	Gravel/Subbase						
2	Brown Clayey Silt						
3			90%	0	Grab	B-8 2.5'	MTBE, BETX, TCLP
4							
5							
6							
7	Gray Mottle Brown Clayey Silt						
8			90%	0	Grab	B-8 7.5'	MTBE, BETX, TCLP wet at 8.5'-10'
9							
10							
11							
12							
13							
14							
15							

Stratification lines are approximate, in-situ transition between soil types may be gradual.

NOTES: Well to 15'

Manway / Surface Elevation: 99.61'

Groundwater Depth While Drilling:	8.5'-10'	Auger Depth:		Driller:	CW ² M
Groundwater Depth After Drilling:	93.09'	Rotary Depth:	15'	Geologist:	MDR/JKT



INCIDENT #: 2009-1397	BOREHOLE NUMBER: B-10/MW-10
SITE NAME: Huck's #131 / Maiers Grocery	BORING LOCATION: 34' N of B-9
SITE ADDRESS: 109 South State Street Crossville, Illinois 62821	RIG TYPE: Truck mounted drill rig
DATE/TIME STARTED: 11/21/11 10:45am	DRILLING/SAMPLE METHOD: continuous sampling/hollow stem auger
DATE/TIME FINISHED: 11/21/11 11:15am	BACKFILL: well

DEPTH (FEET)	SOIL AND ROCK DESCRIPTION	USCS CLASS	Sample Recovery	PID (ppm)	Sample Type	SAMPLE NUMBER	REMARKS: (Odor, Color, Moisture, Penetrometer, etc.)
0	Concrete						
1	Gravel/Subbase						
2	Dark Brown Clayey Silt		90%	0	Grab	B-10 2.5'	MTBE, BETX, TCLP
3							
4							
5	Light Brown Clayey Silt		100%	0	Grab	B-10 7.5'	MTBE, BETX, TCLP wet at 8'-10'
6							
7							
8							
9							
10							
11							
12							
13							
14							
15							

Stratification lines are approximate, in-situ transition between soil types may be gradual.

NOTES: Well to 15'

Manway / Surface Elevation: 99.66'

Groundwater Depth While Drilling: ~8'-10'	Auger Depth:	Driller: CW M
Groundwater Depth After Drilling: 94.37'	Rotary Depth: 15'	Geologist: MDR/JKT



INCIDENT #: 2009-1397	BOREHOLE NUMBER: B-11
CLIENT NAME: Huck's #131 / Maiers Grocery	BORING LOCATION: 6' W and 72' S of the South East corner of building
SITE ADDRESS: 109 South State Street Crossville, Illinois 62821	RIG TYPE: Truck mounted drill rig
DATE/TIME STARTED: 11/27/11 12:30pm	DRILLING/SAMPLE METHOD: continuous sampling/hollow stem auger
DATE/TIME FINISHED: 11/27/11 1:00pm	BACKFILL: well

DEPTH (FEET)	SOIL AND ROCK DESCRIPTION	USCS CLASS	Sample Recovery	PID (ppm)	Sample Type	SAMPLE NUMBER	REMARKS: (Odor, Color, Moisture, Penetrometer, etc.)
0	Grass						
1	Top Soil						
2	Light Brown Silty Clay		70%	0	Grab	B-11 2.5'	MTBE, BETX, TCLP
3							
4							
5							
6							
7							
8			100%	0	Grab	B-11 7.5'	MTBE, BETX, TCLP wet at 8'
9							
10							
11							
12							
13							
14							
15	Well to 15'						

Stratification lines are approximate, in-situ transition between soil types may be gradual.

NOTES:

Manway / Surface Elevation:

Groundwater Depth While Drilling: ~ 8'	Auger Depth:	Driller: CW ⁽¹⁾ M
Groundwater Depth After Drilling:	Rotary Depth: 15'	Geologist: MDR/JKT



Illinois Environmental Protection Agency

CW[®] M COMPANY, INC.
DRILLING BOREHOLE LOG

Page 1 of 1

INCIDENT #: 2009-1397	BOREHOLE NUMBER: B-12
SITE NAME: Huck's #131 / Maiers Grocery	BORING LOCATION: 35' W and 72' S of the South East corner of building
SITE ADDRESS: 109 South State Street Crossville, Illinois 62821	RIG TYPE: Truck mounted drill rig
DATE/TIME STARTED: 11/27/11 1:00pm	DRILLING/SAMPLE METHOD: continuous sampling/hollow stem auger
DATE/TIME FINISHED: 11/27/11 1:30pm	BACKFILL: well

DEPTH (FEET)	SOIL AND ROCK DESCRIPTION	USCS CLASS	Sample Recovery	PID (ppm)	Sample Type	SAMPLE NUMBER	REMARKS: (Odor, Color, Moisture, Penetrometer, etc.)
0	Grass						
1	Top Soil						
2	Light Brown Silty Clay		90%	0	Grab	B-12 2.5'	MTBE, BETX, TCLP
3							
4	Light Brown Clayey Silt						
5							
6							
8							
8			90%	0	Grab	B-12 7.5'	MTBE, BETX, TCLP wet at 8'
9							
10							
11							
12							
13							
14							
15	Well to 15'						

Stratification lines are approximate, in-situ transition between soil types may be gradual.

NOTES:

Manway / Surface Elevation:

Groundwater Depth While Drilling: ~ 8'	Auger Depth:	Driller: CW [®] M
Groundwater Depth After Drilling:	Rotary Depth: 15'	Geologist: MDR/JKT

Incident No. 2009-1397
 Site Name Huck's #131 / Maiers Grocery
 Drilling Contractor CW³M
 Driller CW³M
 Drilling Method Hollow Stem Auger

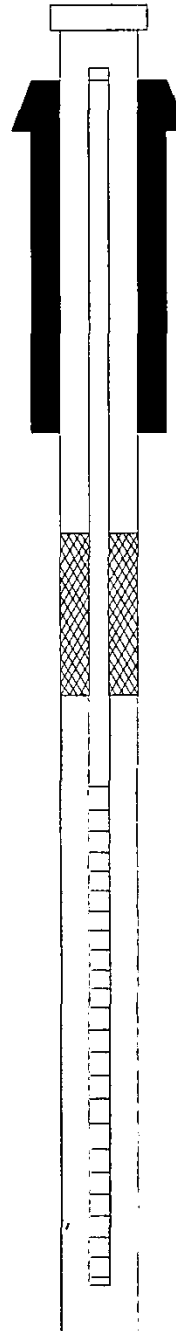
Well No. MW-6
 Date Drilled 11/21/2011
 Date Completed 11/21/2011
 Geologist MDR/JKT
 Drilling Fluids N/A

Annular Space Details

Type of Surface Seal Concrete
 Type of Annular Sealant Bentonite
 Type of Bentonite High-Yield
 Type of Sand Pack Coarse 20-20

Well Construction Materials

	Stainless Steel Type	PVC Specify Type	Other Specify Type
Riser Coupling Joint			
Riser Pipe Above w.t.		Sched.-40	
Riser Pipe Below w.t.			
Screen		Sched.-40	
Coupling Joint Screen to Riser		Sched.-40	
Protective Casing			Steel



Top of Protective Casing 99.50 ft.
 Top of riser pipe 99.25 ft.
 Ground surface 99.50 ft.
 Top of Annular Sealant 99.00 ft.
 Casing Stickup N/A

Top of Seal 99.00 ft.
 Total Seal interval 3.00 ft.
 Top of Sand 96.00 ft.
 Top of Screen 95.00 ft.

Total Screen Interval 10.0 ft.

Bottom of Screen 85.00 ft.
 Bottom of Borehole 84.50 ft.

Measurements

Riser Pipe Length	4.25 ft.
Screen Length	10.0 ft.
Screen Slot Size	10-slot
Protective Casing Length	N/A
Depth to Water	~8-10 ft. while drilling
Depth to Water	94.33 ft. static
Free Product Thickness	N/A
Gallons removed (develop)	N/A
Gallons removed (purge)	N/A
Other	

Completed by: BMW

Illinois Environmental Protection Agency

LUST Well Completion Report

Incident No. 2009-1397
 Site Name Huck's #131 / Maiers Grocery
 Drilling Contractor CW³M
 Driller CW³M
 Drilling Method Hollow Stem Auger

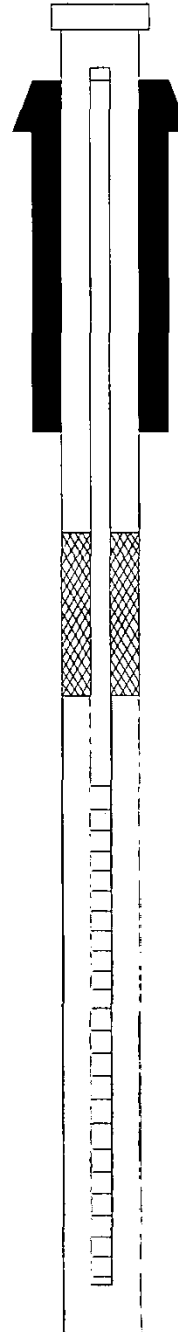
Well No. MW-8
 Date Drilled 11/21/2011
 Date Completed 11/21/2011
 Geologist MDR/JKT
 Drilling Fluids N/A

Annular Space Details

Type of Surface Seal Concrete
 Type of Annular Sealant Bentonite
 Type of Bentonite High-Yield
 Type of Sand Pack Coarse 20-20

Well Construction Materials

	Stainless Steel Type	PVC Specify Type	Other Specify Type
Riser Coupling Joint			
Riser Pipe Above w.t.		Sched.-40	
Riser Pipe Below w.t.			
Screen		Sched.-40	
Coupling Joint Screen to Riser		Sched.-40	
Protective Casing			Steel



Top of Protective Casing 99.61 ft.
 Top of riser pipe 99.36 ft.
 Ground surface 99.61 ft.
 Top of Annular Sealant 99.11 ft.
 Casing Stickup N/A

Top of Seal 99.11 ft.
 Total Seal interval 3.00 ft.
 Top of Sand 96.11 ft.
 Top of Screen 95.11 ft.

Total Screen Interval 10.0 ft.

Bottom of Screen 85.11 ft.
 Bottom of Borehole 84.61 ft.

Measurements

Riser Pipe Length	4.25 ft.
Screen Length	10.0 ft.
Screen Slot Size	10-slot
Protective Casing Length	N/A
Depth to Water	~8-10 ft. while drilling
Depth to Water	93.28 ft. static
Free Product Thickness	N/A
Gallons removed (develop)	N/A
Gallons removed (purge)	N/A
Other	

Completed by: BMW

Incident No. 2009-1397
 Site Name Huck's #131 / Maiers Grocery
 Drilling Contractor CW³M
 Driller CW³M
 Drilling Method Hollow Stem Auger

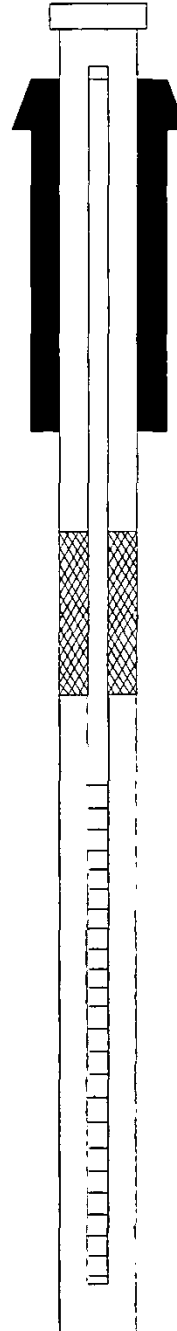
Well No. MW-9
 Date Drilled 11/21/2011
 Date Completed 11/21/2011
 Geologist MDR/JKT
 Drilling Fluids N/A

Annular Space Details

Type of Surface Seal Concrete
 Type of Annular Sealant Bentonite
 Type of Bentonite High-Yield
 Type of Sand Pack Coarse 20-20

Well Construction Materials

	Stainless Steel Type	PVC Specify Type	Other Specify Type
Riser Coupling Joint			
Riser Pipe Above w.t.		Sched.-40	
Riser Pipe Below w.t.			
Screen		Sched.-40	
Coupling Joint Screen to Riser		Sched.-40	
Protective Casing			Steel



99.61 ft. Top of Protective Casing
99.36 ft. Top of riser pipe
99.61 ft. Ground surface
 Top of Annular Sealant
99.11 ft. Sealant
N/A Casing Stickup

99.11 ft. Top of Seal
3.00 ft. Total Seal interval
96.11 ft. Top of Sand
95.11 ft. Top of Screen

Total Screen
10.0 ft. Interval

Bottom of
85.11 ft. Screen
 Bottom of
84.61 ft. Borehole

Measurements

Riser Pipe Length	4.25 ft.
Screen Length	10.0 ft.
Screen Slot Size	10-slot
Protective Casing Length	N/A
Depth to Water	~8-10 ft. while drilling
Depth to Water	93.09 ft. static
Free Product Thickness	N/A
Gallons removed (develop)	N/A
Gallons removed (purge)	N/A
Other	

Completed by: BMW

Illinois Environmental Protection Agency

LUST Well Completion Report

Incident No. 2009-1397
 Site Name Huck's #131 / Maiers Grocery
 Drilling Contractor CW³M
 Driller CW³M
 Drilling Method Hollow Stem Auger

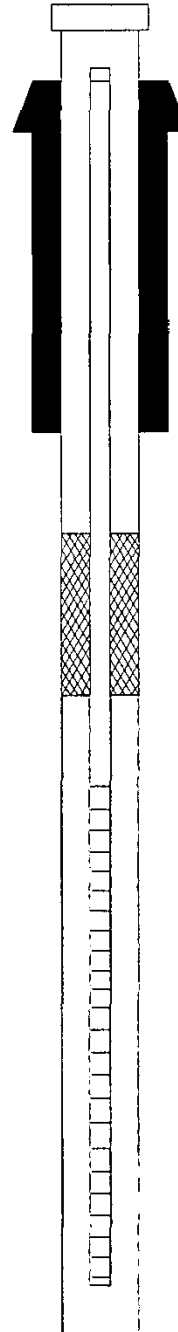
Well No. MW-10
 Date Drilled 11/21/2011
 Date Completed 11/21/2011
 Geologist MDR/JKT
 Drilling Fluids N/A

Annular Space Details

Type of Surface Seal Concrete
 Type of Annular Sealant Bentonite
 Type of Bentonite High-Yield
 Type of Sand Pack Coarse 20-20

Well Construction Materials

	Stainless Steel Type	PVC Specify Type	Other Specify Type
Riser Coupling Joint			
Riser Pipe Above w.t.		Sched.-40	
Riser Pipe Below w.t.			
Screen		Sched.-40	
Coupling Joint			
Screen to Riser		Sched.-40	
Protective Casing			Steel



Top of Protective Casing 99.66 ft.
 Top of riser pipe 99.41 ft.
 Ground surface 99.66 ft.
 Top of Annular Sealant 99.16 ft.
 Casing Stickup N/A

Top of Seal 99.16 ft.
 Total Seal interval 3.00 ft.
 Top of Sand 96.16 ft.
 Top of Screen 95.16 ft.

Total Screen Interval 10.0 ft.

Bottom of Screen 85.16 ft.
 Bottom of Borehole 84.66 ft.

Measurements

Riser Pipe Length	4.25 ft.
Screen Length	10.0 ft.
Screen Slot Size	10-slot
Protective Casing Length	N/A
Depth to Water	~8-10 ft. while drilling
Depth to Water	94.37 ft. static
Free Product Thickness	N/A
Gallons removed (develop)	N/A
Gallons removed (purge)	N/A
Other	

Completed by: BMW

Incident No. 2009-1397
 Site Name Huck's #131 / Maiers Grocery
 Drilling Contractor CW³M
 Driller CW³M
 Drilling Method Hollow Stem Auger

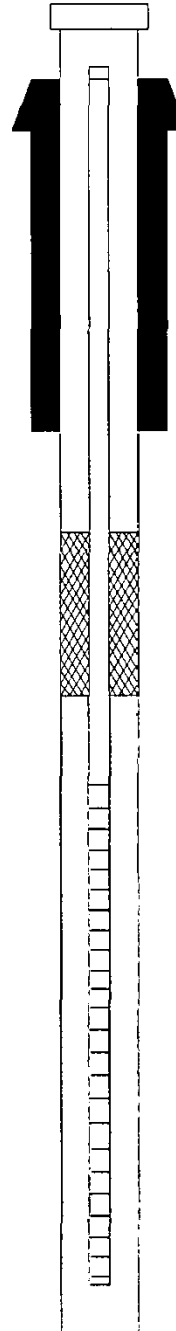
Well No. MW-11
 Date Drilled 11/21/2011
 Date Completed 11/21/2011
 Geologist MDR/JKT
 Drilling Fluids N/A

Annular Space Details

Type of Surface Seal Concrete
 Type of Annular Sealant Bentonite
 Type of Bentonite High-Yield
 Type of Sand Pack Coarse 20-20

Well Construction Materials

	Stainless Steel Type	PVC Specify Type	Other Specify Type
Riser Coupling Joint			
Riser Pipe Above w.t.		Sched.-40	
Riser Pipe Below w.t.			
Screen		Sched.-40	
Coupling Joint			
Screen to Riser		Sched.-40	
Protective Casing			Steel



Top of Protective Casing 99.47 ft.
 Top of riser pipe 99.22 ft.
 Ground surface 99.47 ft.
 Top of Annular Sealant 98.97 ft.
 Casing Stickup N/A

Top of Seal 98.97 ft.
 Total Seal interval 3.00 ft.
 Top of Sand 95.97 ft.
 Top of Screen 94.97 ft.

Total Screen Interval 10.0 ft.

Bottom of Screen 84.97 ft.
 Bottom of Borehole 84.47 ft.

Measurements

Riser Pipe Length	4.25 ft.
Screen Length	10.0 ft.
Screen Slot Size	10-slot
Protective Casing Length	N/A
Depth to Water	~8-10 ft. while drilling
Depth to Water	91.80 ft. static
Free Product Thickness	N/A
Gallons removed (develop)	N/A
Gallons removed (purge)	N/A
Other	

Completed by: BMW

Illinois Environmental Protection Agency

LUST Well Completion Report

Incident No. 2009-1397
 Site Name Huck's #131 / Maiers Grocery
 Drilling Contractor CW³M
 Driller CW³M
 Drilling Method Hollow Stem Auger

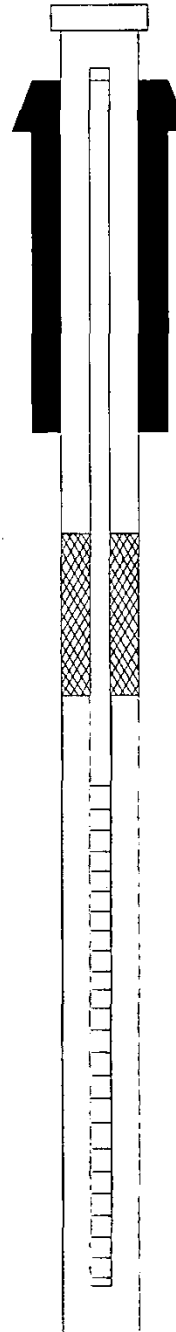
Well No. MW-12
 Date Drilled 11/21/2011
 Date Completed 11/21/2011
 Geologist MDR/JKT
 Drilling Fluids N/A

Annular Space Details

Type of Surface Seal Concrete
 Type of Annular Sealant Bentonite
 Type of Bentonite High-Yield
 Type of Sand Pack Coarse 20-20

Well Construction Materials

	Stainless Steel Type	PVC Specify Type	Other Specify Type
Riser Coupling Joint			
Riser Pipe Above w.t.		Sched.-40	
Riser Pipe Below w.t.			
Screen		Sched.-40	
Coupling Joint			
Screen to Riser		Sched.-40	
Protective Casing			Steel



Top of Protective Casing 99.24 ft.
 Top of riser pipe 98.99 ft.
 Ground surface 99.24 ft.
 Top of Annular Sealant 98.74 ft.
 Casing Stickup N/A

Top of Seal 98.74 ft.
 Total Seal interval 3.00 ft.
 Top of Sand 95.74 ft.
 Top of Screen 94.74 ft.

Total Screen Interval 10.0 ft.

Bottom of Screen 84.74 ft.
 Bottom of Borehole 84.24 ft.

Measurements

Riser Pipe Length	4.25 ft.
Screen Length	10.0 ft.
Screen Slot Size	10-slot
Protective Casing Length	N/A
Depth to Water	~8-10 ft. while drilling
Depth to Water	91.83 ft. static
Free Product Thickness	N/A
Gallons removed (develop)	N/A
Gallons removed (purge)	N/A
Other	

Completed by: BMW

APPENDIX E

ANALYTICAL RESULTS

AMENDED STAGE 2 / 3 SITE INVESTIGATION PLAN AND BUDGET

**HUCK'S #131 / MAIERS GROCERY
CROSSVILLE, ILLINOIS**

Huck's #131 / Maiers Grocery
Site Assessment Data

Soil 11-21-11

	Location	B-6	B-6	B-8	B-8	B-8	B-9	B-9	B-10	B-10
	Depth	2.5'	7.5'	2.5'	7.5'	12.5'	2.5'	7.5'	2.5'	7.5'
Parameter	Class I CUO									
Benzene	0.03	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	0.001	<0.002
Ethylbenzene	13.0	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Toluene	12.0	<0.002	0.005	<0.002	0.012	<0.002	<0.002	0.008	0.009	0.009
Total Xylenes	5.6	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
MTBE	0.32	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Lead TCLP	0.0075	0.009	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005

Huck's #131 / Maiers Grocery
Site Assessment Data

Soil 11-21-11

	Location	B-11	B-11	B-12	B-12
	Depth	2.5'	7.5'	2.5'	7.5'
Parameter	Class I CUO				
Benzene	0.03	<0.002	<0.002	<0.002	<0.002
Ethylbenzene	13.0	<0.002	<0.002	<0.002	<0.002
Toluene	12.0	<0.002	0.007	<0.002	0.01
Total Xylenes	5.6	<0.005	<0.005	<0.005	<0.005
MTBE	0.32	<0.005	<0.005	<0.005	<0.005
Lead TCLP	0.0075	<0.005	<0.005	<0.005	<0.005

Huck's #131 / Maier's Grocery
 Site Assessment Data

Stage 2/3 - Groundwater

	Location	MW-6	MW-8	MW-9	MW-10	MW-11	MW-12
	Date	1/26/2012	1/26/2012	1/26/2012	1/26/2012	1/26/2012	1/26/2012
Parameter	Class I CUO						
Benzene	0.005	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Ethylbenzene	0.7	0.155	<0.002	<0.002	0.082	<0.002	<0.002
Toluene	1.0	0.356	<0.002	<0.002	0.111	0.005	<0.002
Total Xylenes	10.0	0.741	<0.005	<0.005	0.242	0.015	<0.005



INVOICE

Remit To: Accounts Receivable
Prairie Analytical Systems, Inc.
1210 Capital Airport Drive
Springfield, IL 62707
217.753.1148

Invoice Number 1103984

Invoice Date: December 06, 2011
Due Date: January 05, 2012

Invoice To: Martin and Bayley
928 County Road
Carmi, IL 62821

Project: Maiers Grocery-Martin & Bayley /
PO: Crossville, IL
Received: 11/22/2011
Work Order(s): 11K0384

Attn: Mark Bayley
Phone: NA

Quantity	Analysis/Description	Matrix	Unit Cost	Extended Cost
12	SW 8260B BETX+MTBE [7 day]	Solid	\$96.44	\$1,157.28
12	SW 6020A Lead TCLP [7 day]	Solid	\$18.15	\$217.80
12	SW 1311 TCLP [7 day]	Solid	\$89.63	\$1,075.56

Invoice Total: \$2,450.64

RECEIVED
DEC 14 2011
BY: *ck*



Tuesday, December 6, 2011

Ms. Carol Rowe
CW3M Company, Inc.
701 South Grand Ave. West
Springfield, IL 62704
TEL: (217) 522-8001
FAX: (217) 522-8009

RECEIVED
DEC 14 2011
BY: *CR*

RE: Maiers Grocery-Martin & Bayley / Crossville, IL

PAS WO: 11K0384

Prairie Analytical Systems, Inc. received 12 sample(s) on 11/22/2011 for the analyses presented in the following report.

All applicable quality control procedures met method specific acceptance criteria unless otherwise noted.

This report shall not be reproduced, except in full, without the prior written consent of Prairie Analytical Systems, Inc.

If you have any questions, please feel free to contact me at (217) 753-1148.

Respectfully submitted,

A handwritten signature in black ink, appearing to read "Michael D. Brophy".

Michael D. Brophy
Project Manager

Certifications:

NELAP/NELAC - IL #100323

1210 Capital Airport Drive	*	Springfield, IL 62707	*	1.217.753.1148	*	1.217.753.1152 Fax
9114 Virginia Road Suite #112	*	Lake in the Hills, IL 60156	*	1.847.651.2604	*	1.847.458.0538 Fax

LABORATORY RESULTS

Client: CW3M Company, Inc.
 Project: Maiers Grocery-Martin & Bayley / Crossville, IL
 Client Sample ID: B6 2.5'
 Collection Date: 11/21/11 10:10

Lab Order: 11K0384
 Lab ID: 11K0384-01
 Matrix: Solid

Analyses	Result	Limit	Qual	Units	DF	Date Prepared	Date Analyzed	Method	Analyst
Volatile Organic Compounds by GC-MS									
*Benzene	U	5.14		µg/Kg dry	1	11/29/11 11:25	11/29/11 19:50	SW 8260B	BDP
*Ethylbenzene	U	5.14		µg/Kg dry	1	11/29/11 11:25	11/29/11 19:50	SW 8260B	BDP
*Methyl tert-butyl ether	U	5.14		µg/Kg dry	1	11/29/11 11:25	11/29/11 19:50	SW 8260B	BDP
*Toluene	U	5.14		µg/Kg dry	1	11/29/11 11:25	11/29/11 19:50	SW 8260B	BDP
*Xylenes (total)	U	15.4		µg/Kg dry	1	11/29/11 11:25	11/29/11 19:50	SW 8260B	BDP

TCLP Metals by ICP-MS

*Lead	0.00892	0.00750		mg/L	3	11/29/11 11:37	11/30/11 23:10	SW 6020A	JTC
-------	---------	---------	--	------	---	----------------	----------------	----------	-----

Conventional Chemistry Parameters

Percent Solids	78.9	0.100		%	1	11/24/11 8:30	11/25/11 13:30	ASTM D2216	AJD
----------------	------	-------	--	---	---	---------------	----------------	------------	-----

Client Sample ID: B6 7.5'
 Collection Date: 11/21/11 10:20

Lab ID: 11K0384-02
 Matrix: Solid

Analyses	Result	Limit	Qual	Units	DF	Date Prepared	Date Analyzed	Method	Analyst
Volatile Organic Compounds by GC-MS									
*Benzene	U	4.64		µg/Kg dry	1	11/29/11 11:25	11/29/11 20:20	SW 8260B	BDP
*Ethylbenzene	U	4.64		µg/Kg dry	1	11/29/11 11:25	11/29/11 20:20	SW 8260B	BDP
*Methyl tert-butyl ether	U	4.64		µg/Kg dry	1	11/29/11 11:25	11/29/11 20:20	SW 8260B	BDP
*Toluene	5.01	4.64		µg/Kg dry	1	11/29/11 11:25	11/29/11 20:20	SW 8260B	BDP
*Xylenes (total)	U	13.9		µg/Kg dry	1	11/29/11 11:25	11/29/11 20:20	SW 8260B	BDP

TCLP Metals by ICP-MS

*Lead	U	0.00750		mg/L	3	11/29/11 11:37	11/30/11 23:15	SW 6020A	JTC
-------	---	---------	--	------	---	----------------	----------------	----------	-----

Conventional Chemistry Parameters

Percent Solids	78.2	0.100		%	1	11/24/11 8:30	11/25/11 13:30	ASTM D2216	AJD
----------------	------	-------	--	---	---	---------------	----------------	------------	-----

RECEIVED
 DEC 14 2011
 BY: *CA*

LABORATORY RESULTS

Client: CW3M Company, Inc.
 Project: Maiers Grocery-Martin & Bayley / Crossville, IL
 Client Sample ID: B8 2.5'
 Collection Date: 11/21/11 12:10

Lab Order: 11K0384
 Lab ID: 11K0384-03
 Matrix: Solid

Analyses	Result	Limit	Qual	Units	DF	Date Prepared	Date Analyzed	Method	Analyst
Volatile Organic Compounds by GC-MS									
*Benzene	U	5.20		µg/Kg dry	1	11/30/11 10:58	11/30/11 20:05	SW 8260B	BDP
*Ethylbenzene	U	5.20		µg/Kg dry	1	11/30/11 10:58	11/30/11 20:05	SW 8260B	BDP
*Methyl tert-butyl ether	U	5.20		µg/Kg dry	1	11/30/11 10:58	11/30/11 20:05	SW 8260B	BDP
*Toluene	U	5.20		µg/Kg dry	1	11/30/11 10:58	11/30/11 20:05	SW 8260B	BDP
*Xylenes (total)	U	15.6		µg/Kg dry	1	11/30/11 10:58	11/30/11 20:05	SW 8260B	BDP
TCLP Metals by ICP-MS									
*Lead	U	0.00750		mg/L	3	11/29/11 11:37	11/30/11 23:20	SW 6020A	JTC
Conventional Chemistry Parameters									
Percent Solids	77.6	0.100		%	1	11/24/11 8:30	11/25/11 13:30	ASTM D2216	AJD

Client Sample ID: B8 7.5'
 Collection Date: 11/21/11 12:20

Lab ID: 11K0384-04
 Matrix: Solid

Analyses	Result	Limit	Qual	Units	DF	Date Prepared	Date Analyzed	Method	Analyst
Volatile Organic Compounds by GC-MS									
*Benzene	U	6.57		µg/Kg dry	1	11/30/11 10:58	11/30/11 20:35	SW 8260B	BDP
*Ethylbenzene	U	6.57		µg/Kg dry	1	11/30/11 10:58	11/30/11 20:35	SW 8260B	BDP
*Methyl tert-butyl ether	U	6.57		µg/Kg dry	1	11/30/11 10:58	11/30/11 20:35	SW 8260B	BDP
*Toluene	12.1	6.57		µg/Kg dry	1	11/30/11 10:58	11/30/11 20:35	SW 8260B	BDP
*Xylenes (total)	U	19.7		µg/Kg dry	1	11/30/11 10:58	11/30/11 20:35	SW 8260B	BDP
TCLP Metals by ICP-MS									
*Lead	U	0.00750		mg/L	3	11/29/11 11:37	11/30/11 23:25	SW 6020A	JTC
Conventional Chemistry Parameters									
Percent Solids	79.7	0.100		%	1	11/24/11 8:30	11/25/11 13:30	ASTM D2216	AJD

RECEIVED
 DEC 14 2011
 BY: OR

LABORATORY RESULTS

Client: CW3M Company, Inc.
 Project: Maiers Grocery-Martin & Bayley / Crossville, IL
 Client Sample ID: B9 2.5'
 Collection Date: 11/21/11 11:40

Lab Order: 11K0384
 Lab ID: 11K0384-05
 Matrix: Solid

Analyses	Result	Limit	Qual	Units	DF	Date Prepared	Date Analyzed	Method	Analyst
Volatile Organic Compounds by GC-MS									
*Benzene	U	5.02		µg/Kg dry	1	11/30/11 10:58	11/30/11 21:04	SW 8260B	BDP
*Ethylbenzene	U	5.02		µg/Kg dry	1	11/30/11 10:58	11/30/11 21:04	SW 8260B	BDP
*Methyl tert-butyl ether	U	5.02		µg/Kg dry	1	11/30/11 10:58	11/30/11 21:04	SW 8260B	BDP
*Toluene	U	5.02		µg/Kg dry	1	11/30/11 10:58	11/30/11 21:04	SW 8260B	BDP
*Xylenes (total)	U	15.1		µg/Kg dry	1	11/30/11 10:58	11/30/11 21:04	SW 8260B	BDP
TCLP Metals by ICP-MS									
*Lead	U	0.00750		mg/L	3	11/29/11 11:37	11/30/11 23:31	SW 6020A	JTC
Conventional Chemistry Parameters									
Percent Solids	77.9	0.100		%	1	11/24/11 8:30	11/25/11 13:30	ASTM D2216	AJD

Client Sample ID: B9 7.5'
 Collection Date: 11/21/11 11:50

Lab ID: 11K0384-06
 Matrix: Solid

Analyses	Result	Limit	Qual	Units	DF	Date Prepared	Date Analyzed	Method	Analyst
Volatile Organic Compounds by GC-MS									
*Benzene	U	5.09		µg/Kg dry	1	11/30/11 10:58	11/30/11 15:09	SW 8260B	BDP
*Ethylbenzene	U	5.09		µg/Kg dry	1	11/30/11 10:58	11/30/11 15:09	SW 8260B	BDP
*Methyl tert-butyl ether	U	5.09		µg/Kg dry	1	11/30/11 10:58	11/30/11 15:09	SW 8260B	BDP
*Toluene	7.51	5.09		µg/Kg dry	1	11/30/11 10:58	11/30/11 15:09	SW 8260B	BDP
*Xylenes (total)	U	15.3		µg/Kg dry	1	11/30/11 10:58	11/30/11 15:09	SW 8260B	BDP
TCLP Metals by ICP-MS									
*Lead	U	0.00750		mg/L	3	11/29/11 11:37	11/30/11 23:36	SW 6020A	JTC
Conventional Chemistry Parameters									
Percent Solids	78.4	0.100		%	1	11/24/11 8:30	11/25/11 13:30	ASTM D2216	AJD

RECEIVED
 DEC 14 2011
 BY: CR

LABORATORY RESULTS

Client: CW3M Company, Inc.
 Project: Maiers Grocery-Martin & Bayley / Crossville, IL
 Client Sample ID: B10 2.5'
 Collection Date: 11/21/11 10:55
 Lab Order: 11K0384
 Lab ID: 11K0384-07
 Matrix: Solid

Analyses	Result	Limit	Qual	Units	DF	Date Prepared	Date Analyzed	Method	Analyst
Volatile Organic Compounds by GC-MS									
*Benzene	U	5.77		µg/Kg dry	1	11/30/11 10:58	11/30/11 21:33	SW 8260B	BDP
*Ethylbenzene	U	5.77		µg/Kg dry	1	11/30/11 10:58	11/30/11 21:33	SW 8260B	BDP
*Methyl tert-butyl ether	U	5.77		µg/Kg dry	1	11/30/11 10:58	11/30/11 21:33	SW 8260B	BDP
*Toluene	U	5.77		µg/Kg dry	1	11/30/11 10:58	11/30/11 21:33	SW 8260B	BDP
*Xylenes (total)	U	17.3		µg/Kg dry	1	11/30/11 10:58	11/30/11 21:33	SW 8260B	BDP

TCLP Metals by ICP-MS									
*Lead	U	0.00750		mg/L	3	11/29/11 11:37	11/30/11 23:56	SW 6020A	JTC

Conventional Chemistry Parameters									
Percent Solids	77.8	0.100		%	1	11/24/11 8:30	11/25/11 13:30	ASTM D2216	AJD

Client Sample ID: B10 7.5'
 Collection Date: 11/21/11 11:05
 Lab ID: 11K0384-08
 Matrix: Solid

Analyses	Result	Limit	Qual	Units	DF	Date Prepared	Date Analyzed	Method	Analyst
Volatile Organic Compounds by GC-MS									
*Benzene	U	5.32		µg/Kg dry	1	11/30/11 12:51	12/1/11 11:44	SW 8260B	BDP
*Ethylbenzene	U	5.32		µg/Kg dry	1	11/30/11 12:51	12/1/11 11:44	SW 8260B	BDP
*Methyl tert-butyl ether	U	5.32		µg/Kg dry	1	11/30/11 12:51	12/1/11 11:44	SW 8260B	BDP
*Toluene	9.05	5.32		µg/Kg dry	1	11/30/11 12:51	12/1/11 11:44	SW 8260B	BDP
*Xylenes (total)	U	16.0		µg/Kg dry	1	11/30/11 12:51	12/1/11 11:44	SW 8260B	BDP

TCLP Metals by ICP-MS									
*Lead	U	0.00750		mg/L	3	11/29/11 11:37	12/1/11 0:01	SW 6020A	JTC

Conventional Chemistry Parameters									
Percent Solids	79.2	0.100		%	1	11/24/11 8:30	11/25/11 13:30	ASTM D2216	AJD

RECEIVED
 DEC 14 2011
 BY: *CR*

LABORATORY RESULTS

Client: CW3M Company, Inc.
 Project: Maiers Grocery-Martin & Bayley / Crossville, IL
 Client Sample ID: B11 2.5'
 Collection Date: 11/21/11 12:40
 Lab Order: 11K0384
 Lab ID: 11K0384-09
 Matrix: Solid

Analyses	Result	Limit	Qual	Units	DF	Date Prepared	Date Analyzed	Method	Analyst
Volatile Organic Compounds by GC-MS									
*Benzene	U	5.34		µg/Kg dry	1	11/30/11 12:51	12/1/11 10:16	SW 8260B	BDP
*Ethylbenzene	U	5.34		µg/Kg dry	1	11/30/11 12:51	12/1/11 10:16	SW 8260B	BDP
*Methyl tert-butyl ether	U	5.34		µg/Kg dry	1	11/30/11 12:51	12/1/11 10:16	SW 8260B	BDP
*Toluene	U	5.34		µg/Kg dry	1	11/30/11 12:51	12/1/11 10:16	SW 8260B	BDP
*Xylenes (total)	U	16.0		µg/Kg dry	1	11/30/11 12:51	12/1/11 10:16	SW 8260B	BDP

TCLP Metals by ICP-MS									
*Lead	U	0.00750		mg/L	3	11/29/11 11:37	12/1/11 0:06	SW 6020A	JTC

Conventional Chemistry Parameters									
Percent Solids	78.5	0.100		%	1	11/24/11 8:30	11/25/11 13:30	ASTM D2216	AJD

Client Sample ID: B11 7.5'
 Collection Date: 11/21/11 12:50
 Lab ID: 11K0384-10
 Matrix: Solid

Analyses	Result	Limit	Qual	Units	DF	Date Prepared	Date Analyzed	Method	Analyst
Volatile Organic Compounds by GC-MS									
*Benzene	U	5.39		µg/Kg dry	1	11/29/11 11:25	11/29/11 15:53	SW 8260B	BDP
*Ethylbenzene	U	5.39		µg/Kg dry	1	11/29/11 11:25	11/29/11 15:53	SW 8260B	BDP
*Methyl tert-butyl ether	U	5.39		µg/Kg dry	1	11/29/11 11:25	11/29/11 15:53	SW 8260B	BDP
*Toluene	7.50	5.39		µg/Kg dry	1	11/29/11 11:25	11/29/11 15:53	SW 8260B	BDP
*Xylenes (total)	U	16.2		µg/Kg dry	1	11/29/11 11:25	11/29/11 15:53	SW 8260B	BDP

TCLP Metals by ICP-MS									
*Lead	U	0.00750		mg/L	3	11/29/11 11:37	12/1/11 0:11	SW 6020A	JTC

Conventional Chemistry Parameters									
Percent Solids	78.8	0.100		%	1	11/24/11 8:30	11/25/11 13:30	ASTM D2216	AJD

RECEIVED
 DEC 14 2011
 BY:

LABORATORY RESULTS

Client: CW3M Company, Inc.
 Project: Maiers Grocery-Martin & Bayley / Crossville, IL
 Client Sample ID: B12 2.5'
 Collection Date: 11/21/11 13:10

Lab Order: 11K0384
 Lab ID: 11K0384-11
 Matrix: Solid

Analyses	Result	Limit	Qual	Units	DF	Date Prepared	Date Analyzed	Method	Analyst
Volatile Organic Compounds by GC-MS									
*Benzene	U	5.25		µg/Kg dry	1	11/30/11 12:51	12/1/11 10:45	SW 8260B	BDP
*Ethylbenzene	U	5.25		µg/Kg dry	1	11/30/11 12:51	12/1/11 10:45	SW 8260B	BDP
*Methyl tert-butyl ether	U	5.25		µg/Kg dry	1	11/30/11 12:51	12/1/11 10:45	SW 8260B	BDP
*Toluene	U	5.25		µg/Kg dry	1	11/30/11 12:51	12/1/11 10:45	SW 8260B	BDP
*Xylenes (total)	U	15.8		µg/Kg dry	1	11/30/11 12:51	12/1/11 10:45	SW 8260B	BDP
TCLP Metals by ICP-MS									
*Lead	U	0.00750		mg/L	3	11/29/11 11:37	12/1/11 0:16	SW 6020A	JTC
Conventional Chemistry Parameters									
Percent Solids	78.0	0.100		%	1	11/24/11 8:30	11/25/11 13:30	ASTM D2216	AJD

Client Sample ID: B12 7.5'
 Collection Date: 11/21/11 13:20

Lab ID: 11K0384-12
 Matrix: Solid

Analyses	Result	Limit	Qual	Units	DF	Date Prepared	Date Analyzed	Method	Analyst
Volatile Organic Compounds by GC-MS									
*Benzene	U	5.69		µg/Kg dry	1	11/30/11 12:51	12/1/11 11:14	SW 8260B	BDP
*Ethylbenzene	U	5.69		µg/Kg dry	1	11/30/11 12:51	12/1/11 11:14	SW 8260B	BDP
*Methyl tert-butyl ether	U	5.69		µg/Kg dry	1	11/30/11 12:51	12/1/11 11:14	SW 8260B	BDP
*Toluene	10.7	5.69		µg/Kg dry	1	11/30/11 12:51	12/1/11 11:14	SW 8260B	BDP
*Xylenes (total)	U	17.1		µg/Kg dry	1	11/30/11 12:51	12/1/11 11:14	SW 8260B	BDP
TCLP Metals by ICP-MS									
*Lead	U	0.00750		mg/L	3	11/29/11 11:37	12/1/11 0:21	SW 6020A	JTC
Conventional Chemistry Parameters									
Percent Solids	79.2	0.100		%	1	11/24/11 8:30	11/25/11 13:30	ASTM D2216	AJD

RECEIVED
 DEC 14 2011
 BY: *OR*

LABORATORY RESULTS

Client: CW3M Company, Inc.

Project: Maiers Grocery-Martin & Bayley / Crossville, IL

Lab Order: 11K0384

Notes and Definitions

- S Spike recovery outside acceptance limits.
- R RPD outside acceptance limits.
- * NELAC certified compound.
- U Analyte not detected (i.e. less than RL or MDL).

RECEIVED
DEC 14 2011
CR
BY: _____

Chain of Custody Record

Central IL - 1210 Capital Airport Drive - Springfield, IL 62707-8490 - Phone (217) 753-1148 - Facsimile (217) 753-1152
 Chicago Office - PO Box 2116 - Crystal Lake, IL 60039-2116 - Phone (847) 651-2604 - Facsimile (847) 458-9680

www.prairieanalytical.com



Page 9 of 9

Client: CW3M		Analysis and/or method Requested:						Reporting:					
Address: 701 W. S. Grand Ave		Analysis and/or method Requested	BTEX/MTBE	TCCLP Lead					<input checked="" type="checkbox"/> TACO				
City, State, Zip Code: Spfld, IL									<input type="checkbox"/> Resid				
Phone / Facsimile No.: 217-522-8001									<input type="checkbox"/> Ind/Comm				
Client Project: Mayer's Grocery - Martin + Bayley									<input checked="" type="checkbox"/> CALM				
Location: Crossville, IL									<input type="checkbox"/> A <input type="checkbox"/> B				
Sampler(s) / Phone: same									<input type="checkbox"/> C				
Turnaround Time: Standard <input checked="" type="checkbox"/> Rush <input type="checkbox"/> Date Required:									<input checked="" type="checkbox"/> RISC				
P.O. # or Invoice To:		<input type="checkbox"/> Resid											
Contact Person: Matt Rives		<input type="checkbox"/> Indust											
Sample Description	Sampling		Matrix Code	Total # of Containers	Sample		Laboratory Comments						
	Date	Time			Comp	Grab							
B6-2.5	11-21-11	10:10	S	4		X	<div style="border: 1px solid black; padding: 5px; display: inline-block;"> RECEIVED DEC 14 2011 BY: <i>[Signature]</i> </div>						
B6-7.5		10:20	S	4		X							
B8-2.5		12:10	S	4		X							
B8-7.5		12:20	S	4		X							
B9-2.5		11:40	S	4		X							
B9-7.5		11:50	S	4		X							
B10-2.5		10:55	S	4		X							
B10-7.5		11:05	S	4		X							
B11-2.5		12:40	S	4		X							
B11-7.5		12:50	S	4		X							
B12-2.5		1:10	S	4		X							
B12-7.5		1:20	S	4		X							
M = Matrix Code		A - Aqueous		DW - Drinking Water		GW - Groundwater		NA - Non-aqueous Liquid		S - Solids		O - Other (Specify)	
Requisitioned By: <i>[Signature]</i>		Date: 11-22-11	Time: 16:15	Received By: <i>[Signature]</i>		Date: 11/22/11	Time: 16:15	Method of Shipment: Hand					
Special Instructions:				O/C Level: 1 2 3 4		On Wet Ice: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N		Temperature (°C): 5.1					

000448

The Agency is authorized to require this information under Section 4 and Title XVI of the Environmental Protection Act (415 ILCS 5/4, 5/57 - 57.17). Failure to disclose this information may result in a civil penalty of not to exceed \$50,000.00 for the violation and an additional civil penalty of not to exceed \$10,000.00 for each day during which the violation continues (415 ILCS 5/42). Any person who knowingly makes a false material statement or representation in any label, manifest, record, report, permit, or license, or other document filed, maintained or used for the purpose of compliance with Title XVI commits a Class 4 felony. Any second or subsequent offense after conviction hereunder is a Class 3 felony (415 ILCS 5/57.17). This form has been approved by the Forms Management Center.

Illinois Environmental Protection Agency
Leaking Underground Storage Tank Program
Laboratory Certification for Chemical Analysis

RECEIVED
DEC 14 2011
BY: AK

A. Site Identification

IEMA Incident # (6- or 8-digit): 2009-1937 IEPA LPC# (10-digit): 1930155021
Site Name: Maier's Grocery
Site Address (Not a P.O. Box): 109 South State Street
City: Crossville County: White ZIP Code: 62827
Leaking UST Technical File

B. Sample Collector

I certify that:

1. Appropriate sampling equipment/methods were utilized to obtain representative samples.
2. Chain-of-custody procedures were followed in the field.
3. Sample integrity was maintained by proper preservation.
4. All samples were properly labeled.

JKT
(initial)

JKT
(initial)

JKT
(initial)

JKT
(initial)

C. Laboratory Representative

I certify that:

1. Proper chain-of-custody procedures were followed as documented on the chain-of-custody forms
2. Sample integrity was maintained by proper preservation.
3. All samples were properly labeled.
4. Quality assurance/quality control procedures were established and carried out.

LB
(initial)

LB
(initial)

LB
(initial)

LB
(initial)

5. Sample holding times were not exceeded.

JB
(initial)

6. SW-846 Analytical Laboratory Procedure (USEPA) methods were used for the analyses.

JB
(initial)

7. An accredited lab performed quantitative analysis using test methods identified in 35 IAC 186.180 (for samples collected on or after January 1, 2003).

JB
(initial)

D. Signatures

I hereby affirm that all information contained in this form is true and accurate to the best of my knowledge and belief. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Sample Collector

Name: James K Thornton
Title: Env. Geologist
Company: CWM Company, Inc.
Address: 701 W. South Grand Avenue
City: Springfield
State: Illinois
ZIP Code: 62704
Phone: (217) 522-8001
Signature: JK Thornton
Date: 11-21-11

Laboratory Representative

Name: Michael Brophy
Title: Project Manager
Company: Prairie Analytical Systems, Inc.
Address: 1210 Capital Airport Drive
City: Springfield
State: Illinois
ZIP Code: 62707
Phone: (217) 753-1148
Signature: Michael Brophy
Date: 12-6-11

RECEIVED
DEC 14 2011
BY: AK



INVOICE

Remit To: Accounts Receivable
Prairie Analytical Systems, Inc.
1210 Capital Airport Drive
Springfield, IL 62707
217.753.1148

Invoice Number 1200501

Invoice Date: February 08, 2012
Due Date: March 09, 2012

Invoice To: Martin and Bayley
928 County Road
Carmi, IL 62821

Project: Maier Grocery / Crossville, IL
PO:
Received: 01/30/2012
Work Order(s): 12A0528

Attn: Mark Bayley
Phone: NA

Quantity	Analysis/Description	Matrix	Unit Cost	Extended Cost
6	SW 8260B BETX+MTBE [7 day]	Water	\$91.90	\$551.40

Invoice Total: \$551.40

RECEIVED
FEB 13 2012
BY: *CR*



Wednesday, February 8, 2012

Ms. Carol Rowe
CW3M Company, Inc.
701 South Grand Ave. West
Springfield, IL 62704
TEL: (217) 522-8001
FAX: (217) 522-8009

RE: Maier Grocery / Crossville, IL

PAS WO: 12A0528

Prairie Analytical Systems, Inc. received 6 sample(s) on 1/30/2012 for the analyses presented in the following report:

All applicable quality control procedures met method specific acceptance criteria unless otherwise noted.

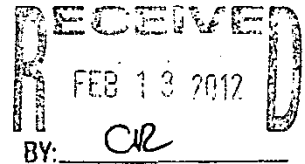
This report shall not be reproduced, except in full, without the prior written consent of Prairie Analytical Systems, Inc.

If you have any questions, please feel free to contact me at (217) 753-1148.

Respectfully submitted,

A handwritten signature in black ink, appearing to read "Michael D. Brophy".

Michael D. Brophy
Project Manager



Certifications: NELAP/NELAC - IL #100323

1210 Capital Airport Drive	*	Springfield, IL 62707	*	1.217.753.1148	*	1.217.753.1152 Fax
9114 Virginia Road Suite #112	*	Lake in the Hills, IL 60156	*	1.847.651.2604	*	1.847.458.0538 Fax

LABORATORY RESULTS

Client: CW3M Company, Inc.
 Project: Maier Grocery / Crossville, IL
 Client Sample ID: MW 6
 Collection Date: 1/26/12 13:30

Lab Order: 12A0528
 Lab ID: 12A0528-01
 Matrix: Water

Analyses	Result	Limit	Qual	Units	DF	Date Prepared	Date Analyzed	Method	Analyst
Volatile Organic Compounds by GC-MS									
*Benzene	U	5.00		µg/L	1	2/1/12 8:53	2/1/12 12:26	SW 8260B	BDP
*Ethylbenzene	155	5.00		µg/L	1	2/1/12 8:53	2/1/12 12:26	SW 8260B	BDP
*Methyl tert-butyl ether	U	5.00		µg/L	1	2/1/12 8:53	2/1/12 12:26	SW 8260B	BDP
*Toluene	356	25.0		µg/L	5	2/3/12 10:49	2/3/12 16:06	SW 8260B	BDP
*Xylenes (total)	741	75.0		µg/L	5	2/3/12 10:49	2/3/12 16:06	SW 8260B	BDP

Client Sample ID: MW 8
 Collection Date: 1/26/12 13:40

Lab ID: 12A0528-02
 Matrix: Water

Analyses	Result	Limit	Qual	Units	DF	Date Prepared	Date Analyzed	Method	Analyst
Volatile Organic Compounds by GC-MS									
*Benzene	U	5.00		µg/L	1	2/1/12 8:53	2/1/12 12:55	SW 8260B	BDP
*Ethylbenzene	U	5.00		µg/L	1	2/1/12 8:53	2/1/12 12:55	SW 8260B	BDP
*Methyl tert-butyl ether	U	5.00		µg/L	1	2/1/12 8:53	2/1/12 12:55	SW 8260B	BDP
*Toluene	U	5.00		µg/L	1	2/1/12 8:53	2/1/12 12:55	SW 8260B	BDP
*Xylenes (total)	U	15.0		µg/L	1	2/1/12 8:53	2/1/12 12:55	SW 8260B	BDP

Client Sample ID: MW 9
 Collection Date: 1/26/12 13:50

Lab ID: 12A0528-03
 Matrix: Water

Analyses	Result	Limit	Qual	Units	DF	Date Prepared	Date Analyzed	Method	Analyst
Volatile Organic Compounds by GC-MS									
*Benzene	U	5.00		µg/L	1	2/1/12 8:53	2/1/12 13:26	SW 8260B	BDP
*Ethylbenzene	U	5.00		µg/L	1	2/1/12 8:53	2/1/12 13:26	SW 8260B	BDP
*Methyl tert-butyl ether	U	5.00		µg/L	1	2/1/12 8:53	2/1/12 13:26	SW 8260B	BDP
*Toluene	U	5.00		µg/L	1	2/1/12 8:53	2/1/12 13:26	SW 8260B	BDP
*Xylenes (total)	U	15.0		µg/L	1	2/1/12 8:53	2/1/12 13:26	SW 8260B	BDP

Client Sample ID: MW 10
 Collection Date: 1/26/12 14:00

Lab ID: 12A0528-04
 Matrix: Water

Analyses	Result	Limit	Qual	Units	DF	Date Prepared	Date Analyzed	Method	Analyst
Volatile Organic Compounds by GC-MS									
*Benzene	U	5.00		µg/L	1	2/1/12 8:53	2/1/12 13:57	SW 8260B	BDP
*Ethylbenzene	82.6	5.00		µg/L	1	2/1/12 8:53	2/1/12 13:57	SW 8260B	BDP
*Methyl tert-butyl ether	U	5.00		µg/L	1	2/1/12 8:53	2/1/12 13:57	SW 8260B	BDP
*Toluene	111	5.00		µg/L	1	2/1/12 8:53	2/1/12 13:57	SW 8260B	BDP
*Xylenes (total)	242	15.0		µg/L	1	2/1/12 8:53	2/1/12 13:57	SW 8260B	BDP

RECEIVED
 FEB 13 2012
 By: *CR*

LABORATORY RESULTS

Client: CW3M Company, Inc.
 Project: Maier Grocery / Crossville, IL
 Client Sample ID: MW 11
 Collection Date: 1/26/12 14:10

Lab Order: 12A0528
 Lab ID: 12A0528-05
 Matrix: Water

Analyses	Result	Limit	Qual	Units	DF	Date Prepared	Date Analyzed	Method	Analyst
Volatile Organic Compounds by GC-MS									
*Benzene	U	5.00		µg/L	1	2/1/12 8:53	2/1/12 14:30	SW 8260B	BDP
*Ethylbenzene	U	5.00		µg/L	1	2/1/12 8:53	2/1/12 14:30	SW 8260B	BDP
*Methyl tert-butyl ether	U	5.00		µg/L	1	2/1/12 8:53	2/1/12 14:30	SW 8260B	BDP
*Toluene	5.44	5.00		µg/L	1	2/1/12 8:53	2/1/12 14:30	SW 8260B	BDP
*Xylenes (total)	15.0	15.0		µg/L	1	2/1/12 8:53	2/1/12 14:30	SW 8260B	BDP

Client Sample ID: MW 12
 Collection Date: 1/26/12 14:20

Lab ID: 12A0528-06
 Matrix: Water

Analyses	Result	Limit	Qual	Units	DF	Date Prepared	Date Analyzed	Method	Analyst
Volatile Organic Compounds by GC-MS									
*Benzene	U	5.00		µg/L	1	2/1/12 8:53	2/1/12 15:03	SW 8260B	BDP
*Ethylbenzene	U	5.00		µg/L	1	2/1/12 8:53	2/1/12 15:03	SW 8260B	BDP
*Methyl tert-butyl ether	U	5.00		µg/L	1	2/1/12 8:53	2/1/12 15:03	SW 8260B	BDP
*Toluene	U	5.00		µg/L	1	2/1/12 8:53	2/1/12 15:03	SW 8260B	BDP
*Xylenes (total)	U	15.0		µg/L	1	2/1/12 8:53	2/1/12 15:03	SW 8260B	BDP

RECEIVED
 FEB 13 2012
 BY: *CR*

LABORATORY RESULTS

Client: CW3M Company, Inc.
Project: Maier Grocery / Crossville, IL

Lab Order: 12A0528

Notes and Definitions

- * NELAC certified compound.
- U Analyte not detected (i.e. less than RL or MDL).

RECEIVED
FEB 13 2012
BY: *CA*

**The appearance of some of the images
following this page is due to**

Poor Quality Original Documents

and not the scanning or filming processes.

**Com Microfilm Company
(217) 525-5860**

J:\mailbox\poorDocs.doc

Chain of Custody Record

Central IL - 1210 Capital Airport Drive - Springfield, IL 62707-8490 - Phone (217) 753-1148 - Facsimile (217) 753-1152
 Chicago Office - PO Box 2116 - Crystal Lake, IL 60032-2116 - Phone (847) 651-2604 - Facsimile (847) 458-8680



Prairie Analytical
 SYSTEMS, INCORPORATED

www.prairieanalytical.com

Client		Address		City, State, Zip Code		Phone / Facsimile No.		Client / Project		Location		Sampler(s) / Phone		Turnaround Time		I.P.O. # or Invoice To		Contact Person		Analysis and/or Method Requested		Analysis and/or Method Requested		Reporting	
CNRS Co. Inc.		701 W.S. Grand Ave		Springfield, IL 62704		(217) 753-1148		CNRS Co. Inc.		Springfield, IL		701 W.S. Grand Ave		1-30-12		1-30-12		BETX		MTE		ATACO		Resid	
Sample Description		Sampling Date		Sampling Time		Matrix Code		Total # of Containers		Comp		Grab		J.M. = Matrix Code		A. = Aquatics		D.W. = Drinking Water		G.W. = Groundwater		S.F. = Soils		O. = Other (Specify)	
MAN-6	1/26/12	1:35 p	GW	2	X																				
MW-8	1/26/12	11:40 p																							
MW-9	1/26/12	11:50 p																							
MW-10	1/26/12	2:00 p																							
MW-11	1/26/12	2:10 p																							
MW-12	1/26/12	2:20 p																							
Standard		Rushy (1) Date Required		Protect		Carol Rowe																			
Reinquisitioned By		Date		Time		Date		Time		Date		Time		Date		Time		Date		Time		Date		Time	
Robert B... Paul Carter		1/27/12		5:00 PM		1/27/12		5:00 PM		1/27/12		5:00 PM		1/27/12		5:00 PM		1/27/12		5:00 PM		1/27/12		5:00 PM	
Special Instructions		Date		Time		Date		Time		Date		Time		Date		Time		Date		Time		Date		Time	
		1/30/12		4:15 PM		1/30/12		4:15 PM		1/30/12		4:15 PM		1/30/12		4:15 PM		1/30/12		4:15 PM		1/30/12		4:15 PM	
Temperature (°C)		29																							

The Agency is authorized to require this information under Section 4 and Title XVI of the Environmental Protection Act (415 ILCS 5/4, 5/57 - 57.17). Failure to disclose this information may result in a civil penalty of not to exceed \$50,000.00 for the violation and an additional civil penalty of not to exceed \$10,000.00 for each day during which the violation continues (415 ILCS 5/42). Any person who knowingly makes a false material statement or representation in any label, manifest, record, report, permit, or license, or other document filed, maintained or used for the purpose of compliance with Title XVI commits a Class 4 felony. Any second or subsequent offense after conviction hereunder is a Class 3 felony (415 ILCS 5/57.17). This form has been approved by the Forms Management Center.

**Illinois Environmental Protection Agency
Leaking Underground Storage Tank Program
Laboratory Certification for Chemical Analysis**

RECEIVED
FEB 13 2012
BY: CR

A. Site Identification

IEMA Incident # (6- or 8-digit): _____ IEPA LPC# (10-digit): _____
Site Name: Main Grocery
Site Address (Not a P.O. Box): IL Rt. 1 @ Main Street
City: Crossville County: _____ ZIP Code: _____
Leaking UST Technical File _____

B. Sample Collector

I certify that:

1. Appropriate sampling equipment/methods were utilized to obtain representative samples.
2. Chain-of-custody procedures were followed in the field.
3. Sample integrity was maintained by proper preservation.
4. All samples were properly labeled.

RB
(initial)
RB
(initial)
RB
(initial)
RB
(initial)

C. Laboratory Representative

I certify that:

1. Proper chain-of-custody procedures were followed as documented on the chain-of-custody forms
2. Sample integrity was maintained by proper preservation.
3. All samples were properly labeled.
4. Quality assurance/quality control procedures were established and carried out.

LB
(initial)
LB
(initial)
LB
(initial)
LB
(initial)

5. Sample holding times were not exceeded.

LP
(initial)

6. SW-846 Analytical Laboratory Procedure (USEPA) methods were used for the analyses.

LP
(initial)

7. An accredited lab performed quantitative analysis using test methods identified in 35 IAC 186.180 (for samples collected on or after January 1, 2003).

LP
(initial)

D. Signatures

I hereby affirm that all information contained in this form is true and accurate to the best of my knowledge and belief. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Sample Collector

Name: Rob Stanley, PG
Title: Senior Geologist
Company: CWM Company, Inc.
Address: 400 West Jackson Street -Suite C
City: Marion
State: Illinois
ZIP Code: 62959
Phone: (618) 997-2238
Signature: *Rob Stanley*
Date: 1/26/12

Laboratory Representative

Name: Michael Dwyer
Title: Project Manager
Company: Prairie Analytical Systems, Inc.
Address: 1210 Capital Airport Drive
City: Springfield
State: Illinois
ZIP Code: 62707
Phone: (217) 753-1148
Signature: *Michael Dwyer*
Date: 2-8-12

RECEIVED
FEB 15 2012
BY: CR

APPENDIX F

BUDGETS AND CERTIFICATION

AMENDED STAGE 2 / 3 SITE INVESTIGATION PLAN AND BUDGET

**HUCK'S #131 / MAIERS GROCERY
CROSSVILLE, ILLINOIS**



Illinois Environmental Protection Agency

Bureau of Land • 1021 N. Grand Avenue E. • P.O. Box 19276 • Springfield • Illinois • 62794-9276

General Information for the Budget and Billing Forms

LPC #: 1930155021 County: White

City: Crossville Site Name: Huck's #131 / Maier's Grocery

Site Address: 109 South State Street

IEMA Incident No.: 20091397

IEMA Notification Date: Dec 16, 2009

Date this form was prepared: Sep 9, 2010

This form is being submitted as a (check one, if applicable):

- Budget Proposal
- Budget Amendment (Budget amendments must include only the costs over the previous budget.)
- Billing Package

Please provide the name(s) and date(s) of report(s) documenting the costs requested:

Name(s): _____

Date(s): _____

This package is being submitted for the site activities indicated below:

35 III. Adm. Code 734:

- Early Action
- Free Product Removal after Early Action
- Site Investigation Stage 1: Stage 2:
- Corrective Action Actual Costs Proposed

RECEIVED

JUL 19 2013

Stage 3:

Propose

EPA/BOL

35 III. Adm. Code 732:

- Early Action
- Free Product Removal after Early Action
- Site Classification
- Low Priority Corrective Action
- High Priority Corrective Action

35 III. Adm. Code 731:

- Site Investigation
- Corrective Action

General Information for the Budget and Billing Forms

The following address will be used as the mailing address for checks and any final determination letters regarding payment from the Fund.

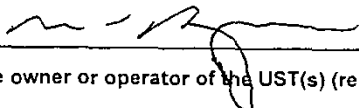
Pay to the order of: Martin & Bayley, Inc.

Send in care of: CWM Company, Inc.

Address: P.O. Box 385

City: Carmi State: Illinois Zip: 62821

The payee is the: Owner Operator (Check one or both.)



 Signature of the owner or operator of the UST(s) (required)

If you have a change of address, [click here](#) to print off a W-9 Form.

Number of petroleum USTs in Illinois presently owned or operated by the owner or operator; any subsidiary, parent or joint stock company of the owner or operator; and any company owned by any parent, subsidiary or joint stock company of the owner or operator:

Fewer than 101: 101 or more:

Number of USTs at the site: 4 (Number of USTs includes USTs presently at the site and USTs that have been removed.)

Number of incidents reported to IEMA for this site: 1

Incident Numbers assigned to the site due to releases from USTs: 20091397

Please list all tanks that have ever been located at the site and tanks that are presently located at the site.

Product Stored in UST	Size (gallons)	Did UST have a release?	Incident No.	Type of Release Tank Leak / Overfill / Piping Leak
Gasoline	10,000	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	20091397	Tank Leak
Gasoline	10,000	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	20091397	Tank Leak
Gasoline	8,000	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	n/a	
Gasoline	4,000	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	n/a	
		Yes <input type="checkbox"/> No <input type="checkbox"/>		
		Yes <input type="checkbox"/> No <input type="checkbox"/>		
		Yes <input type="checkbox"/> No <input type="checkbox"/>		
		Yes <input type="checkbox"/> No <input type="checkbox"/>		
		Yes <input type="checkbox"/> No <input type="checkbox"/>		

Owner/Operator and Licensed Professional Engineer/Geologist Budget Certification Form

I hereby certify that I intend to seek payment from the UST Fund for costs incurred while performing corrective action activities for Leaking UST incident 2009-1397. I further certify that the costs set forth in this budget are for necessary activities and are reasonable and accurate to the best of my knowledge and belief. I also certify that the costs included in this budget are not for corrective action in excess of the minimum requirements of 415 ILCS 5/57, no costs are included in this budget that are not described in the corrective action plan, and no costs exceed Subpart H: Maximum Payment Amounts, Appendix D Sample Handling and Analysis amounts, and Appendix E Personnel Titles and Rates of 35 Ill. Adm. Code 732 or 734. I further certify that costs ineligible for payment from the Fund pursuant to 35 Ill. Adm. Code 732.606 or 734.630 are not included in the budget proposal or amendment. Such ineligible costs include but are not limited to:

- Costs associated with ineligible tanks.
- Costs associated with site restoration (e.g., pump islands, canopies).
- Costs associated with utility replacement (e.g., sewers, electrical, telephone, etc.).
- Costs incurred prior to IEMA notification.
- Costs associated with planned tank pulls.
- Legal fees or costs.
- Costs incurred prior to July 28, 1989.
- Costs associated with installation of new USTs or the repair of existing USTs.

Owner/Operator: Martin & Bayley, Inc.

Authorized Representative: Mark Bayley Title: Chairman

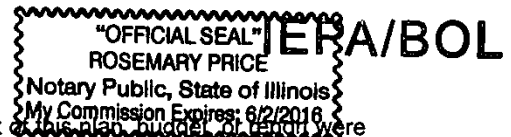
Signature: [Signature] Date: 7/15/13

RECEIVED

Subscribed and sworn to before me the 15 day of July, 2013 JUL 19 2013

Rosemary Price
(Notary Public)

Seal:



In addition, I certify under penalty of law that all activities that are the subject of this plan, budget, or report were conducted under my supervision or were conducted under the supervision of another Licensed Professional Engineer or Licensed Professional Geologist and reviewed by me; that this plan, budget, or report and all attachments were prepared under my supervision; that, to the best of my knowledge and belief, the work described in the plan, budget, or report has been completed in accordance with the Environmental Protection Act [415 ILCS 5], 35 Ill. Adm. Code 732 or 734, and generally accepted standards and practices of my profession; and that the information presented is accurate and complete. I am aware there are significant penalties for submitting false statements or representations to the Illinois EPA, including but not limited to fines, imprisonment, or both as provided in Sections 44 and 57.17 of the Environmental Protection Act [415 ILCS 5/44 and 57.17].

L.P.E./L.P.G.: Vince E. Smith

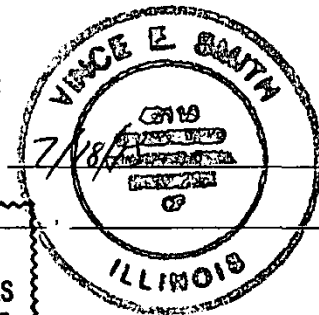
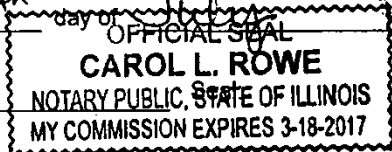
L.P.E./L.P.G. Seal:

L.P.E./L.P.G. Signature: [Signature]

Date: 7/18/13

Subscribed and sworn to before me the 18th day of July

[Signature]
(Notary Public)



The Illinois EPA is authorized to require this information under 415 ILCS 5/1. Disclosure of this information is required. Failure to do so may result in the delay or denial of any budget or payment requested hereunder.

Stage 2 / 3
Proposed Budget Amendment

Budget Summary

Choose the applicable regulation: 734 732

734	Free Product	Stage 1 Site Investigation	Stage 2 Site Investigation	Stage 3 Site Investigation	Corrective Action
Drilling and Monitoring Well Costs Form	\$	\$	\$	\$ 856.70	\$
Analytical Costs Form	\$	\$	\$	\$ 1,096.83	\$
Remediation and Disposal Costs Form	\$	\$	\$	\$	\$
UST Removal and Abandonment Costs Form	\$	\$	\$	\$	\$
Paving, Demolition, and Well Abandonment Costs Form	\$	\$	\$	\$	\$
Consulting Personnel Costs Form	\$	\$	\$	\$ 25,640.75	\$
Consultant's Materials Costs Form	\$	\$	\$	\$ 753.70	\$
Handling Charges Form	Handling charges will be determined at the time a billing package is submitted to the Illinois EPA. The amount of allowable handling charges will be determined in accordance with the Handling Charges Form.				
Total	\$	\$	\$	\$ 28,347.98	\$

Drilling and Monitoring Well Costs Form

1. Drilling

Number of Borings to Be Drilled	Type HSA/PUSH/ Injection	Depth (feet) of Each Boring	Total Feet Drilled	Reason for Drilling
3	PUSH	10.00	30.00	Stage 3 Soil Plume Delineation
1	PUSH	10.00	10.00	TACO sample

Subpart H minimum payment amount applies.

	Total Feet	Rate per Foot (\$)	Total Cost (\$)
Total Feet via HSA:		27.39	
Total Feet via PUSH:	40.00	21.44	857.60
Total Feet for Injection via PUSH:		17.87	
Total Drilling Costs:			856.70

2. Monitoring / Recovery Wells

Number of Wells	Type of Well HSA / PUSH / 4" or 6" Recovery / 8" Recovery	Diameter of Well (inches)	Depth of Well (feet)	Total Feet of Wells to Be Installed (\$)

Well Installation	Total Feet	Rate per Foot (\$)	Total Cost (\$)
Total Feet via HSA:		18.72	
Total Feet via PUSH:		14.18	
Total Feet of 4" or 6" Recovery:		28.36	
Total Feet of 8" or Greater Recovery:		46.52	
Total Well Costs:			

Total Drilling and Monitoring Well Costs:	\$856.70
--	-----------------

Analytical Costs Form

Laboratory Analysis	Number of Samples		Cost (\$) per Analysis		Total per Parameter
Chemical Analysis					
BETX Soil with MTBE EPA 8260		X		=	
BETX Water with MTBE EPA 8260		X		=	
COD (Chemical Oxygen Demand)		X		=	
Corrosivity		X		=	
Flash Point or Ignitability Analysis EPA 1010		X		=	
Fraction Organic Carbon Content (f_{OC}) ASTM-D 2974-00	1	X	45.25	=	\$45.25
Fat, Oil, & Grease (FOG)		X		=	
LUST Pollutants Soil - analysis must include volatile, base/neutral, polynuclear aromatics and metals list in Section 732, Appendix B and 734, Appendix B		X		=	
Dissolved Oxygen (DO)		X		=	
Paint Filter (Free Liquids)		X		=	
PCB / Pesticides (combination)		X		=	
PCBs		X		=	
Pesticides		X		=	
pH		X		=	
Phenol		X		=	
Polynuclear Aromatics PNA, or PAH SOIL EPA 8270		X		=	
Polynuclear Aromatics PNA, or PAH WATER EPA 8270		X		=	
Reactivity		X		=	
SVOC - Soil (Semi-Volatile Organic Compounds)		X		=	
SVOC - Water (Semi-Volatile Organic Compounds)		X		=	
TKN (Total Kjeldahl) "nitrogen"		X		=	
TPH (Total Petroleum Hydrocarbons)		X		=	
VOC (Volatile Organic Compounds) - Soil (Non-Aqueous)		X		=	
VOC (Volatile Organic Compounds) - Water		X		=	
		X		=	
		X		=	
		X		=	
		X		=	
		X		=	
Geo-Technical Analysis					
Soil Bulk Density (ρ_b) ASTM D2937-94	1	X	26.20	=	\$26.20
Ex-situ Hydraulic Conductivity / Permeability		X		=	
Moisture Content (w) ASTM D2216-92 / D4643-93	1	X	14.29	=	\$14.29
Porosity		X		=	
Rock Hydraulic Conductivity Ex-situ		X		=	
Sieve / Particle Size Analysis ASTM D422-63 / D1140-54	1	X	172.70	=	\$172.70
Soil Classification ASTM D2488-90 / D2487-90		X		=	
Soil Particle Density (ρ_s) ASTM D854-92		X		=	
Specific Gravity	1	X	100.00	=	\$100.00
		X		=	
		X		=	

Analytical Costs Form

Metals Analysis					
Soil preparation fee for Metals TCLP Soil (one fee per soil sample)	6	X	94.09	=	\$564.54
Soil preparation fee for Metals Total Soil (one fee per soil sample)		X		=	
Water preparation fee for Metals Water (one fee per water sample)		X		=	
Arsenic TCLP Soil		X		=	
Arsenic Total Soil		X		=	
Arsenic Water		X		=	
Barium TCLP Soil		X		=	
Barium Total Soil		X		=	
Barium Water		X		=	
Cadmium TCLP Soil		X		=	
Cadmium Total Soil		X		=	
Cadmium Water		X		=	
Chromium TCLP Soil		X		=	
Chromium Total Soil		X		=	
Chromium Water		X		=	
Cyanide TCLP Soil		X		=	
Cyanide Total Soil		X		=	
Cyanide Water		X		=	
Iron TCLP Soil		X		=	
Iron Total Soil		X		=	
Iron Water		X		=	
Lead TCLP Soil	6	X	19.05	=	\$114.30
Lead Total Soil		X		=	
Lead Water		X		=	
Mercury TCLP Soil		X		=	
Mercury Total Soil		X		=	
Mercury Water		X		=	
Selenium TCLP Soil		X		=	
Selenium Total Soil		X		=	
Selenium Water		X		=	
Silver TCLP Soil		X		=	
Silver Total Soil		X		=	
Silver Water		X		=	
Metals TCLP Soil (a combination of all metals) RCRA		X		=	
Metals Total Soil (a combination of all metals) RCRA		X		=	
Metals Water (a combination of all metals) RCRA		X		=	
		X		=	
		X		=	
		X		=	
		X		=	
Other					
EnCore® Sampler, purge-and-trap sampler, or equivalent sampling device		X		=	
Sample Shipping per sampling event ¹	1	X	59.55	=	\$59.55

¹A sampling event, at a minimum, is all samples (soil and groundwater) collected in a calendar day.

Total Analytical Costs: \$ 1,096.83

Consulting Personnel Costs Form

Employee Name		Personnel Title	Hours	Rate* (\$)	Total Cost
Remediation Category	Task				
		Senior Project Manager	4.00	119.11	\$476.44
Stage 3-Plan	Stage 3 Plan / Oversight/ Coordination / Technical Compliance				
		Senior Prof. Engineer	3.00	154.84	\$464.52
Stage 3-Plan	Stage 3 Report Certification				
		Professional Geologist	36.00	109.57	\$3,944.52
Stage 3-Plan	Stage 3 Plan Development/Design				
		Engineer III	8.00	119.11	\$952.88
Stage 3-Plan	Stage 3 Plan Sampling Plan				
		Draftperson/CAD III	8.00	59.55	\$476.40
Stage 3-Plan	Drafting of maps for report				
		Senior Admin. Assistant	4.00	53.60	\$214.40
Stage 3-Plan	Stage 3 report compilation, assembly and distribution				

Employee Name	Personnel Title	Hours	Rate* (\$)	Total Cost
Remediation Category	Task			
	Senior Project Manager	6.00	119.11	\$714.66
Stage 3-Budget	Stage 3 Budget / Oversight/ Coordination / Technical Compliance			
	Senior Prof. Engineer	3.00	154.84	\$464.52
Stage 3-Budget	Stage 3 Budget Certification			
	Engineer III	8.00	119.11	\$952.88
Stage 3-Budget	Stage 3 Budget Calculations/Input			
	Engineer I	16.00	89.32	\$1,429.12
Stage 3-Budget	Stage 3 Budget			
	Senior Admin. Assistant	2.00	53.60	\$107.20
Stage 3-Budget	Stage 3 Budget assembly and distribution			
	Senior Project Manager	8.00	119.11	\$952.88
Stage 3-Field	Site Investigation Coordination/Technical Compliance			

Employee Name	Personnel Title	Hours	Rate* (\$)	Total Cost
Remediation Category	Task			
	Senior Prof. Engineer	2.00	154.84	\$309.68
Stage 3-Field	Project Arrangements/Oversight for Site Investigation			
	Geologist III	10.00	104.81	\$1,048.10
Stage 3-Field	On-site Drilling/Sampling Oversight/Slug Test			
	Engineer III	10.00	119.11	\$1,191.10
Stage 3-Field	On-site Drilling and Sampling/Slug Test			
	Senior Admin. Assistant	4.00	53.60	\$214.40
Stage 3-Field	Office Prep., Scheduling, Arrangements for investigation			
	Senior Project Manager	3.00	119.11	\$357.33
Stage 3-Field	Analytical review			
	Draftperson/CAD IV	6.00	65.50	\$393.00
Stage 3-Field	Drafting/ Locations/Elevation/Contamination Levels			
	Geologist III	2.00	104.81	\$209.62
Stage 3-Field	Analytical Tabulation/Input			
	Engineer I	4.00	89.32	\$357.28
Stage 3-Field	Borelogs			

Employee Name	Personnel Title	Hours	Rate* (\$)	Total Cost
Remediation Category	Task			
	Senior Project Manager	6.00	119.11	\$714.66
SICR	SICR oversight / Technical Compliance			
	Senior Prof. Engineer	3.00	154.84	\$464.52
SICR	SICR Certification			
	Engineer III	40.00	119.11	\$4,764.40
SICR	SICR			
	Senior Draftperson/CAD	8.00	71.45	\$571.60
SICR	Drafting/Update and Complete Maps			
	Senior Admin. Assistant	4.00	53.60	\$214.40
SICR	SICR Assembly/Distribution			

Employee Name	Personnel Title	Hours	Rate* (\$)	Total Cost
Remediation Category	Task			
	Senior Project Manager	12.00	119.11	\$1,429.32
Stage 3-Pay	Stage 3 Reimbursement Coordination /Technical Oversight			
	Senior Prof. Engineer	3.00	154.84	\$464.52
Stage 3-Pay	Stage 3 Reimbursement Certification			
	Senior Acct. Technician	24.00	65.50	\$1,572.00
Stage 3-Pay	Stage 3 Reimbursement			
	Senior Admin. Assistant	4.00	53.60	\$214.40
Stage 3-Pay	Stage 3 Reimbursement Assembly/Distribution			

*Refer to the applicable Maximum Payment Amounts document.

Total of Consulting Personnel Costs	\$25,640.75
--	--------------------

Consultant's Materials Costs Form

Materials, Equipment, or Field Purchase	Time or Amount Used	Rate (\$)	Unit	Total Cost
Remediation Category	Description/Justification			
PID Rental	1.00	129.00	/day	\$129.00
Stage 3-Field	To detect VOC levels in soil samples			
Slug Rental	1.00	36.00	/day	\$36.00
Stage 3-Field	Hydraulic Conductivity Determination			
Water Level Indicator	1.00	27.00	/day	\$27.00
Stage 3-Field	Slug Test			
Measuring Wheel	1.00	18.00	/day	\$18.00
Stage 3-Field	Mapping SB locations			
Mileage	415.00	.58	/mile	\$240.70
Stage 3-Field	1 round trip			
Disposable Gloves	1.00	13.00	/box	\$13.00
Stage 3-Field	Disposable latex gloves for soil and groundwater sampling			
Copies	800.00	.10	/each	\$80.00
Stage 3-Plan	Copies Stage 3 Plan/ Drafts			

Materials, Equipment, or Field Purchase		Time or Amount Used	Rate (\$)	Unit	Total Cost
Remediation Category	Description/Justification				
Postage		2.00	5.00	/each	\$10.00
Stage 3-Plan	Stage 3 Forms/Report Distribution				
Copies		200.00	.10	/each	\$20.00
Stage 3-Budget	Copies of Stage 3 Budget/drafts				
Copies		800.00	.10	/each	\$80.00
SICR	Copies of Completion Report and Attachments				
Postage		2.00	5.00	/each	\$10.00
SICR	Completion Forms/Report distribution				
Copies		800.00	.10	/each	\$80.00
Stage 3-Pay	Copies of Stage 3 Reimbursement/Supporting Documentation				
Postage		2.00	5.00	/each	\$10.00
Stage 3-Pay	Stage 3 Forms/Reimbursement distribution				

Total of Consultant Materials Costs	\$753.70
--	-----------------

APPENDIX G

OFF SITE AFFIDAVIT

AMENDED STAGE 2 / 3 SITE INVESTIGATION PLAN AND BUDGET

**HUCK'S #131 / MAIERS GROCERY
CROSSVILLE, ILLINOIS**

APPLIED ENVIRONMENTAL TECHNOLOGIES, INC.

Bryan K. Williams
Professional Geologist/President

P.O. Box 303
Carmi, IL 62821
Bus. 618-382-8232
Fax 618-382-2462
Home 618-384-3601

August 26, 2010

[REDACTED]

RE: Affidavit for access to property

[REDACTED]

Dear [REDACTED]

Martin & Bayley, Inc., the underground storage tank (UST) owner or operator, is performing an environmental response action at Maier's Grocery, 109 South State Street in Crossville, Illinois. The response action is being performed due to leaking gasoline underground storage tanks. The response action consists of performing soil and groundwater sampling by installation of soil borings and groundwater monitoring wells to define any gasoline contamination in the soil or groundwater from the Maier's Grocery and Gas Store adjacent to your property.

Illinois petroleum UST regulations require that the UST owner or operator determine the extent of petroleum contamination caused by a UST system release. Information currently in our possession indicates that petroleum contamination may have migrated onto your property.

Illinois petroleum UST regulations state, in part, that:

1. According to Section 57 of the Environmental Protection Act (Act), the UST owner or operator is legally responsible to remediate the contamination caused by the UST system release;
2. If the property owner denies access to the UST owner or operator, the UST owner or operator may seek to gain entry by a court order pursuant to Section 22.2c of the ACT;
3. In performing the requested investigation, the UST owner or operator will work so as to minimize any disruption on the property, will maintain, or its environmental consultant will maintain, appropriate insurance and will repair any damage caused by the investigation;
4. If contamination results from a UST release by the UST owner or operator, the UST owner or operator will conduct all associated remediation at its own expense; and
5. Threats to human health and the environment and diminished property value may result from failure to remediate contamination from the UST release.

Therefore, Martin & Bayley, Inc. requests that access to your property be granted for the purpose of conducting an investigation to comply with Illinois petroleum UST regulations. Said investigation will, at a minimum, require the collection of soil and/or groundwater samples. We would appreciate a response within 30 days of receipt of this letter.

To learn more about the Maier's Grocery and Gas Store located at 109 South State Street in Crossville, Illinois, please contact Applied Environmental Technologies, Inc, P.O. Box 303, Carmi, IL 62821, (618) 382-8232, or the Illinois Environmental Protection Agency (IEPA), Leaking Underground Storage Tank Section project manager at (217) 782-6761. You may also obtain a copy of the complete Illinois EPA file regarding the Maier's Grocery and Gas Store in Crossville, IL. To do so, you must submit a written request with your signature to:

Illinois Environmental Protection Agency
Bureau of Land - #24
Freedom of Information Act (FOIA) Officer
1021 North Grand Avenue East
Post Office Box 19276
Springfield, IL 62794-9276

When requesting a copy of the file, please reference the file heading shown below:

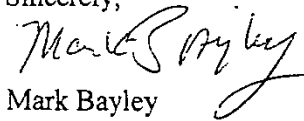
LPC #1930155021 - White County
Crossville/Martin and Bayley, Inc.
109 South State Street
LUST Incident No. 20091397

We the undersigned, as owner or representative of the [REDACTED] and the property currently occupied by The Green Onion Restaurant in Crossville, IL, **grant** permission to Applied Environmental Technologies, Inc. on behalf of Martin & Bayley, Inc. to conduct drilling and soil sampling on said property.

We the undersigned, as owner representative of the property [REDACTED] and the property currently occupied by The Green Onion Restaurant in Crossville, IL, **do not grant** permission to Applied Environmental Technologies, Inc. on behalf of Martin & Bayley, Inc. to conduct drilling and soil sampling [REDACTED]

Date: SEPT. 14, 2010

Sincerely,



Mark Bayley
Chairman, Martin and Bayley, Inc.



ILLINOIS ENVIRONMENTAL PROTECTION AGENCY

1021 NORTH GRAND AVENUE EAST, P.O. BOX 19276, SPRINGFIELD, ILLINOIS 62794-9276 • (217)782-2829
PAT QUINN, GOVERNOR LISA BONNETT, DIRECTOR

217/524-3300

CERTIFIED MAIL

AUG 08 2013

7011 1150 0001 0862 6023

Martin & Bailey
Attention: Mr. Mark Bailey
1311A West Main Street
Carmi, Illinois 62821

Re: LPC #1930155021 -- White County
Crossville/ Maier's Grocery
109 South State Street
Leaking UST Incident No. 20091397
Leaking UST Technical File

EPA-DIVISION OF RECORDS MANAGEMENT
OFFICE

AUG 10 2013

REVIEWER JKS

Dear Mr. Bailey:

The Illinois Environmental Protection Agency (Illinois EPA) has reviewed the amended Stage 2 and 3 Site Investigation Plan (plan) submitted for the above-referenced incident. This plan, dated July 18, 2013, was received by the Illinois EPA on July 19, 2013. Citations in this letter are from the Environmental Protection Act (Act), as amended by Public Act 92-0554 on June 24, 2002, and Public Act 96-0908 on June 8, 2010, and 35 Illinois Administrative Code (35 Ill. Adm. Code).

The Illinois EPA has determined that the activities proposed in this plan are appropriate to demonstrate compliance with Title XVI of the Act and 35 Ill. Adm. Code 734 (Sections 57.7(a)(1) and 57.7(c) of the Act and 35 Ill. Adm. Code 734.505(b) and 734.510(a)). Therefore, the plan is approved.

In addition, the proposed budget for Stage(s) 2 and 3 is modified pursuant to Sections 57.7(a)(2) and 57.7(c) of the Act and 35 Ill. Adm. Code 734.505(b) and 734.510(b). The modifications are listed in Section 2 of Attachment A. Costs must be incurred in accordance with the approved plan. The maximum amounts that can be paid from the Fund must be determined in accordance with Subpart H, Appendix D, and Appendix E of 35 Ill. Adm. Code 734 (35 Ill. Adm. Code 734.310(b)). Please be advised that costs associated with materials, activities, and services must be reasonable, must be consistent with the associated technical plan, must be incurred in the performance of corrective action activities, must not be used for corrective action activities in excess of those necessary to meet the minimum requirements of the Act and regulations, and must not exceed the maximum payment amounts set forth in Subpart H, Appendix D, and Appendix E of Part 734 (Section 57.7(c) of the Act and 35 Ill. Adm. Code 734.510(b)).

4302 N. Main St., Rockford, IL 61103 (815)987-7760
595 S. State, Elgin, IL 60123 (847)608-3131
2125 S. First St., Champaign, IL 61820 (217)278-5800
2009 Mail St., Collinsville, IL 62234 (618)346-5120

9511 Harrison St., Des Plaines, IL 60016 (847)294-4000
5407 N. University St., Arbor 113, Peoria, IL 61614 (309)693-5462
2309 W. Main St., Suite 116, Marion, IL 62959 (618)993-7200
100 W. Randolph, Suite 10-300, Chicago, IL 60601 (312)814-6026

PLEASE PRINT ON RECYCLED PAPER

000479

NOTE: Pursuant to Section 57.8(a)(5) of the Act, if payment from the Fund will be sought for any additional costs that may be incurred as a result of the Illinois EPA's modifications, an amended budget must be submitted. Amended plans and/or budgets must be submitted and approved prior to the issuance of a No Further Remediation (NFR) Letter. Costs associated with a plan or budget that have not been approved prior to the issuance of an NFR Letter will not be paid from the Fund.

Further, pursuant to 35 Ill. Adm. Code 734.145, it is required that the Illinois EPA be notified of field activities prior to the date the field activities take place. This notice must include a description of the field activities to be conducted; the name of the person conducting the activities; and the date, time, and place the activities will be conducted. This notification of field activities may be done by telephone, facsimile, or electronic mail—and must be provided at least three (3) working days prior to the scheduled field activities. Besides providing at least three days' notice to the Leaking UST Section staff in Springfield, notification must be provided to Rob Mileur either by telephone at (618) 993-7223 or by e-mail at Robert.Mileur@illinois.gov.

Please be advised that Senate Bill 20/Public Act 98-109, which became effective July 25, 2013, requires that certain corrective action activities include a Project Labor Agreement (PLA) if payment of costs is requested from the UST Fund. Visit the Leaking UST Program Web page at www.epa.state.il.us/land/lust for information about Senate Bill 20, the fact sheet, and the PLA Certification. For corrective action activities that require a PLA, a complete application for payment from the UST Fund must contain a PLA Certification in order for payment from the UST Fund to be approved.

Pursuant to Sections 57.7(a)(5) and 57.12(c) and (d) of the Act and 35 Ill. Adm. Code 734.100 and 734.125, the Illinois EPA requires submittal of a Site Investigation Completion Report within 30 days after completing the site investigation to:

Illinois Environmental Protection Agency
Bureau of Land - #24
Leaking Underground Storage Tank Section
1021 North Grand Avenue East
Post Office Box 19276
Springfield, IL 62794-9276

Please submit all correspondence in duplicate and include the Re: block shown at the beginning of this letter.

An underground storage tank system owner or operator may appeal this decision to the Illinois Pollution Control Board. Appeal rights are attached.

Page 3

If you have any questions or need further assistance, please contact Donna Wallace at (217) 524-1283.

Sincerely,



Thomas A. Henninger
Unit Manager
Leaking Underground Storage Tank Section
Division of Remediation Management
Bureau of Land

TAH:DW:dw\

Attachment: Attachment A

c: CW3M Company
BOL File

Attachment A

Re: LPC #1930155021 -- White County
Crossville/ Maier's Grocery
109 South State Street
Leaking UST Incident No. 20091397
Leaking UST Technical File

SECTION 1

STAGE 1 Actual Costs

Previously submitted

STAGE 2/3 Proposed Costs

As a result of the Illinois EPA's modifications in Section 2 of this Attachment A, the following amounts are approved:

\$1,429.23	Drilling and Monitoring Well Costs
\$1,096.83	Analytical Costs
\$0	Remediation and Disposal Costs
\$0	UST Removal and Abandonment Costs
\$0	Paving, Demolition, and Well Abandonment Costs
\$18,911.17	Consulting Personnel Costs
\$753.70	Consultant's Materials Costs

Handling charges will be determined at the time a billing package is reviewed by the Illinois EPA. The amount of allowable handling charges will be determined in accordance with Section 57.1(a) of the Environmental Protection Act (Act) and 35 Illinois Administrative Code (35 Ill. Adm. Code) 734.635.

SECTION 2

STAGE 2/3 Modifications

1. An amount of \$572.53 was added to Drilling and Monitoring Well Costs to allow for the minimum.
2. An amount of \$6,729.58 for site investigation or corrective action costs for Personnel Time that are not reasonable as submitted. Such costs are ineligible for payment from the Fund pursuant to Section 57.7(c)(3) of the Act and 35 Ill. Adm. Code 734.630(dd).

In the previous Stage 2/3 Proposed Budget \$6,840.00 in Personnel Time was approved for Site Investigation Completion Report activities.

DW:dwl

Appeal Rights

An underground storage tank owner or operator may appeal this final decision to the Illinois Pollution Control Board pursuant to Sections 40 and 57.7(c)(4) of the Act by filing a petition for a hearing within 35 days after the date of issuance of the final decision. However, the 35-day period may be extended for a period of time not to exceed 90 days by written notice from the owner or operator and the Illinois EPA within the initial 35-day appeal period. If the owner or operator wishes to receive a 90-day extension, a written request that includes a statement of the date the final decision was received, along with a copy of this decision, must be sent to the Illinois EPA as soon as possible.

For information regarding the filing of an appeal, please contact:

Dorothy Gunn, Clerk
Illinois Pollution Control Board
State of Illinois Center
100 West Randolph, Suite 11-500
Chicago, IL 60601
312/814-3620

For information regarding the filing of an extension, please contact:

Illinois Environmental Protection Agency
Division of Legal Counsel
1021 North Grand Avenue East
Post Office Box 19276
Springfield, IL 62794-9276
217/782-5544

CW³M Company

Environmental Consulting Services

701 W. South Grand Avenue
Springfield, IL 62704

Phone: (217) 522-8001
Fax: (217) 522-8009

October 1, 2013

Ms. Donna Wallace, Project Manager
LUST Section, Bureau of Land
Illinois Environmental Protection Agency
1021 North Grand Avenue East
Springfield, Illinois 62794-9276

1930155021 - White Co.
Maier's Grocery
Incident # 20091397
Leaking UST Technical File

RE: **LPC #1930155021—White County**
Huck's #131 / Maier's Grocery
109 South State Street, Crossville, Illinois
Incident Number: 2009-1397
LUST Technical Reports — Stage 2/3 Site Investigation Plan Amendment

RECEIVED

OCT 01 2013

Dear Ms. Wallace:

IEPA/BOL

On behalf of Mr. Mark Bayley, owner of the USTs at the above referenced site, please consider this the submittal of the Stage 2/3 Site Investigation Plan and Budget Amendment. Included herein are the results from the Stage 2/3 Investigation Amendment submitted on July 19, 2013. Please note multiple personnel are listed for the completion of certain tasks. Some reviewers have mistakenly interpreted this as an error or duplication; it is not. Like the Illinois EPA, CW³M uses a system of multiple preparers and reviewers to ensure quality work. Each person works on an area of the project in which they have the most expertise, similar to the Illinois EPA.

The drilling from the IEPA approved on August 8, 2013 Stage 2/3 plan was conducted on August 15, 2013. Three (3) soil borings and one Tiered Approach to Corrective Objectives (TACO) sample were advanced on this date. All soil samples were analyzed for TCLP Lead and the TACO sample was analyzed to determine site-specific soil properties. Analytical results from the Stage 2/3 activities indicate contaminant levels above the Tier 1 CUOs. Analytical results can be found in Attachment A. Soil contamination is present at L-3 for TCLP Lead with a level of 0.0083 mg/ml.

After receiving analytical results from the laboratory, additional boring locations are needed to define the soil plume on site. Proposed at this time are two (2) soil borings which will be advanced on-site to the north and west of L-3 to define the soil contamination plume. The location of the proposed drilling activity can be found in Attachment B. The plan and budget includes costs for another round of drilling and associated personnel time. The budget can be found in Attachment C of this plan. The method for calculating personnel time in the proposed budget has been approved by the Agency in other incidents, such as, incident numbers 2006-0366, 2007-1408, 2008-0366.

701 W. South Grand Avenue
Springfield, IL 62704
(217) 522-8001

400 West Jackson, Suite C
Marion, IL 62959
(618) 997-2238

2008 DIVISION OF RECORDS MANAGEMENT
RELEASABLE

NOV 01 2013

REVIEWER MED

000484

1202, 2008-1657, 2008-1543, 2009-1270, 2009-0929, 2009-1410, 2011-0837, 2011-0822, 2011-0516, and 2012-0575. These hours have been found reasonable and justified as an estimate for the work proposal. These hours should be deemed reasonable as more than one person is required to develop plans and budgets and to check for accuracy of the plan, budget, bore logs, reimbursement claims, and analytical, which is needed to finalize the plan and budget.

For further information about specific site characteristics, please refer to the approved Stage 2/3 Site Investigation Plan and Budget (approved November 16, 2013). If you have any questions or require additional information, please contact Mr. Vince Smith or me at (217) 522-8001.

Sincerely,



Carol L. Rowe, P.G.
Senior Environmental Geologist

xc: Mr. Mark Bayley, *Martin and Bayley, Inc*
Mr. William T. Sinnott, *CW^{PM} Company, Inc.*

RECEIVED

OCT 01 2013

IEPA/BOL



Illinois Environmental Protection Agency

Bureau of Land • 1021 N. Grand Avenue E. • P.O. Box 19276 • Springfield • Illinois • 62794-9276

The Agency is authorized to require this information under Section 4 and Title XVI of the Environmental Protection Act (415 ILCS 6/4, 6/57 - 6/17). Failure to disclose this information may result in a civil penalty of not to exceed \$50,000.00 for the violation and an additional civil penalty of not to exceed \$10,000.00 for each day during which the violation continues (415 ILCS 6/42). Any person who knowingly makes a false material statement or representation, orally or in writing, in any label, manifest, record, report, permit, or license, or other document filed, maintained or used for the purpose of compliance with Title XVI commits a Class 4 felony. Any second or subsequent offense after conviction hereunder is a Class 3 felony (415 ILCS 6/44 and 57.17). This form has been approved by the Forms Management Center.

Leaking Underground Storage Tank Program Site Investigation Plan

A. Site Identification

IEMA Incident # (6- or 8- digit): 09-1397 IEPA LPC # (10- digit): 1930155021

Site Name: Huck's #131 / Maiers Grocery

Site Address (not a P.O. Box): 109 South State Street

City: Crossville County: White Zip Code: 62821

Leaking UST Technical File

B. Site Information

1. Will the owner or operator seek payment from the Underground Storage Tank Fund? Yes No

2. If yes, is the budget attached? Yes No

C. Site Investigation

Provide the following:

1. Stage of investigation
 - a. Stage 2
 - b. Stage 3
2. Summary of Stage 1 or 2 site investigation activities;
3. Characterization of site and surrounding area:
 - a. Current and projected post-remediation uses;
 - b. Physical setting:
 - i. Environmental conditions;
 - ii. Geologic, hydrogeologic, and hydrologic conditions; and
 - iii. Geographic and topographic conditions;
4. Results of Stage 1 or 2 site investigation:
 - a. Map(s) showing locations of all borings and groundwater monitoring wells completed to date and groundwater flow direction;
 - b. Map(s) showing locations of all samples collected;
 - c. Map(s) showing extents of soil and groundwater contamination that exceeds the most stringent Tier 1 remediation objectives;
 - d. Cross-section(s) showing the geology and the horizontal and vertical extents of soil and groundwater contamination that exceeds the most stringent Tier 1 remediation objectives;
 - e. Analytical results, chain of custody forms, and laboratory certifications;

RECEIVED
OCT 01 2013
IEPA/BOL

- f. Table(s) comparing analytical results to the most stringent Tier 1 remediation objectives (include sample depth, date collected, and detection limits);
 - g. Potable water supply well survey (unless provided in previous plan):
 - i. Map(s) to scale showing:
 - a) Locations of community water supply wells and other potable wells and the setback zone for each well;
 - b) Location and extent of regulated recharge areas and wellhead protection areas;
 - c) Extent of groundwater contamination exceeding the most stringent Tier 1 remediation objectives; and
 - d) Modeled extent of groundwater contamination exceeding the most stringent Tier 1 remediation objectives (if performed as part of site investigation);
 - ii. Table(s) listing the setback zones for each community water supply well and other potable water supply wells;
 - iii. A narrative identifying each entity contacted to identify potable water supply wells, the name and title of each person contacted, and any field observations associated with any wells identified; and
 - iv. A certification from a Licensed Professional Engineer or Licensed Professional Geologist that the survey was conducted in accordance with the requirements and that documentation submitted includes information obtained as a result of the survey;
 - h. Soil boring logs and monitoring well construction diagrams;
 - i. Proposal for determining the following parameters:
 - i. Hydraulic conductivity (K);
 - ii. Soil bulk density (p_b);
 - iii. Soil particle density (p_s);
 - iv. Moisture content (w); and
 - v. Organic carbon content (f_{oc}); and
 - j. Budget forms of actual costs (documenting actual work performed during the previous stage).
5. Stage 2 or 3 sampling plan:
- a. Description of and justification for additional activities proposed as part of the plan;
 - b. A map depicting locations of proposed borings and groundwater monitoring wells; and
 - c. Depth of borings/wells and construction details of proposed borings and wells; and
6. Site maps meeting the requirements of 35 Ill. Adm. Code 734.440.

D. Signatures

All plans, budgets, and reports must be signed by the owner or operator and list the owner's or operator's full name, address, and telephone number.

UST Owner or Operator

Consultant

Name: Martin & Bayley, Inc.

Company: CWM Company, Inc.

Contact: Mark Bayley

Contact: Carol Rowe

Address: 1311A West Main Street

Address: 701 West South Grand Ave.

City: Carmi

City: Springfield

State: Illinois

State: Illinois

Zip Code: 62821

Zip Code: 62704

Phone: _____

Phone: 217-522-8001

Signature: [Handwritten Signature]

Signature: [Handwritten Signature]

Date: 9/25/2013

Date: 10/1/2013

I certify under penalty of law that all activities that are the subject of this report were conducted under my supervision or were conducted under the supervision of another Licensed Professional Engineer or Licensed Professional Geologist and reviewed by me; that this report and all attachments were prepared under my supervision; that, to the best of my knowledge and belief, the work described in this report has been completed in accordance with the Environmental Protection Act [415 ILCS 5], 35 Ill. Adm. Code 734, and generally accepted standards and practices of my profession; and that the information presented is accurate and complete. I am aware there are significant penalties for submitting false statements or representations to the Illinois EPA, including but not limited to fines, imprisonment, or both as provided in Sections 44 and 57.17 of the Environmental Protection Act [415 ILCS 5/44 and 57.17].

RECEIVED
OCT 01 2013

Licensed Professional Engineer or Geologist

L.P.E. or L.P.G. Seal EPA/BOL

Name: Vince E. Smith

Company: CWM Company, Inc.

Address: 701 West South Grand Ave.

City: Springfield

State: Illinois

Zip Code: 62704

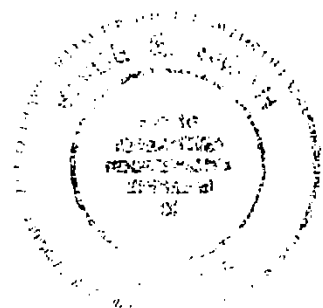
Phone: 217-522-8001

Ill. Registration No.: 062-046118

License Expiration Date: Nov 30, 2013

Signature: [Handwritten Signature]

Date: 9/30/13



Attachment A

ANALYTICAL RESULTS

AMENDED STAGE 2 / 3 SITE INVESTIGATION PLAN AND BUDGET HUCK'S #131 / MAIERS GROCERY CROSSVILLE, ILLINOIS

**Maiers Grocery
Site Assessment Data**

EA - SOIL

	Location	1	2	3	4	5	6	7	8	9
	Date	1/28/2010	1/28/2010	1/28/2010	1/28/2010	1/28/2010	1/28/2010	1/28/2010	1/28/2010	1/28/2010
	Depth	6'	6'	6'	6'	13'	13'	13'	13'	13'
Parameter	Class I CUO									
Benzene	0.03	0.0052	0.0074	0.0055	0.0032	0.0027	0.0017	0.0072	0.016	<0.002
Ethylbenzene	13.0	0.0046	0.0042	0.011	0.0014	0.00046	0.00041	<0.002	<0.002	<0.002
Toluene	12.0	0.011	0.011	0.051	0.008	0.0029	0.0025	<0.002	<0.002	<0.002
Total Xylenes	5.6	0.0097	0.0091	0.051	0.0068	0.0024	0.0021	<0.002	<0.002	<0.002
TCLP lead	0.0075	0.026	0.019	0.016	<0.002	<0.002	<0.002	0.011	0.03	<0.002
MTBE	0.32	0.000662	<0.002	<0.002	<0.002	<0.002	0.00072	0.004	0.0025	0.0022

**Maiers Grocery
Site Assessment Data**

EA - SOIL

	Location	10	11	12	13	14	15	16	17	18
	Date	1/28/2010	1/28/2010	1/28/2010	1/28/2010	1/28/2010	1/28/2010	1/28/2010	1/28/2010	1/28/2010
	Depth	6'	6'	6'	6'	6'	6'	6'	3'	3'
Parameter	Class I CUO									
Benzene	0.03	0.032	1.9	<0.002	0.096	<0.002	0.0009	0.00095	0.026	0.037
Ethylbenzene	13.0	0.046	20.	<0.002	0.009	<0.002	<0.002	0.0019	0.024	0.0032
Toluene	12.0	0.021	2.1	<0.002	0.048	<0.002	<0.002	0.003	0.071	0.0032
Total Xylenes	5.6	0.16	95.	<0.002	0.018	<0.002	<0.002	0.01	0.01	0.032
TCLP lead	0.0075	0.023	0.018	0.018	0.02	0.0088	0.0084	0.0089	0.024	0.012
MTBE	0.32	0.0079	0.47	<0.002	0.011	<0.002	<0.002	<0.002	<0.002	<0.002

**Maiers Grocery
Site Assessment Data**

EA - SOIL

	Location	19
	Date	1/28/2010
	Depth	3'
Parameter	Class I CUO	
Benzene	0.03	0.11
Ethylbenzene	13.0	0.019
Toluene	12.0	0.049
Total Xylenes	5.6	0.077
TCLP lead	0.0075	0.019
MTBE	0.32	<0.002

Huck's #131 / Maiers Grocery
Site Assessment Data

Soil AET(6-2-10)

	Location	B-1	B-1	B-1	B-2	B-2	B-2	B-3	B-3	B-3
	Depth	2.5'	7.5'	12'	2.5'	7.5'	10'	2.5'	7.5'	10'
Parameter	Class I CUO									
Benzene	0.03	0.0029	0.0069	0.0024	<0.002	0.12	0.0016	0.002	0.006	0.0035
Ethylbenzene	13.0	0.0012	0.0055	0.0057	<0.002	0.022	<0.002	0.0005	0.0047	0.0026
Toluene	12.0	0.0046	0.015	0.0019	<0.002	0.0075	0.0018	0.0004	0.0006	0.0012
Total Xylenes	5.6	0.0024	0.012	0.0031	<0.002	0.044	0.0011	0.0015	0.0077	0.0048
MTBE	0.32	<0.002	<0.002	<0.002	<0.002	<0.002	0.0021	0.0037	0.002	<0.002
Lead TCLP	0.0075	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002

Huck's #131 / Maiers Grocery
 Site Assessment Data

Soil AET(6-2-10)

	Location	B-4	B-4	B-4	B-5	B-5
	Depth	2.5'	7.5'	10'	2.5'	7.5'
Parameter	Class I CUO					
Benzene	0.03	<0.002	0.0018	0.0016	<0.002	0.0029
Ethylbenzene	13.0	<0.002	0.0015	0.0014	<0.002	0.0031
Toluene	12.0	<0.002	0.0042	0.0037	<0.002	0.0065
Total Xylenes	5.6	<0.002	0.0031	0.0026	<0.002	0.0065
MTBE	0.32	<0.002	<0.002	<0.002	<0.002	0.0006
Lead TCLP	0.0075	<0.002	<0.002	0.018	<0.002	<0.002

Huck's Maiers Grocery
Site Assessment Data

Groundwater AET(6-30-10)

	Location	MW-1	MW-2	MW-3	MW-4	MW-5	
	Date	6/30/2010	6/30/2010	6/30/2010	6/30/2010	6/30/2010	
Parameter	Class I CUO						
Benzene	0.005	<0.002	0.022	0.27	0.002	0.0086	
Ethylbenzene	0.7	<0.002	0.005	0.15	<0.002	0.004	
Toluene	1.0	<0.002	0.003	0.02	<0.002	<0.002	
Total Xylenes	10.0	<0.005	0.009	0.19	<0.005	0.013	
MTBE	0.1	0.018	0.04	0.12	0.044	0.034	

Huck's #131 / Maiers Grocery
Site Assessment Data

Soil 11-21-11

	Location	B-6	B-6	B-8	B-8	B-8	B-9	B-9	B-10	B-10
	Depth	2.5'	7.5'	2.5'	7.5'	12.5'	2.5'	7.5'	2.5'	7.5'
Parameter	Class I CUO									
Benzene	0.03	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	0.001	<0.002
Ethylbenzene	13.0	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Toluene	12.0	<0.002	0.005	<0.002	0.012	<0.002	<0.002	0.008	0.009	0.009
Total Xylenes	5.6	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
MTBE	0.32	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Lead TCLP	0.0075	0.009	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005

Huck's #131 / Maiers Grocery
Site Assessment Data

Soil 11-21-11

Parameter	Location	B-11	B-11	B-12	B-12
	Depth	2.5'	7.5'	2.5'	7.5'
Parameter	Class I CUO				
Benzene	0.03	<0.002	<0.002	<0.002	<0.002
Ethylbenzene	13.0	<0.002	<0.002	<0.002	<0.002
Toluene	12.0	<0.002	0.007	<0.002	0.01
Total Xylenes	5.6	<0.005	<0.005	<0.005	<0.005
MTBE	0.32	<0.005	<0.005	<0.005	<0.005
Lead TCLP	0.0075	<0.005	<0.005	<0.005	<0.005

Huck's #131 / Maier's Grocery
 Site Assessment Data

Stage 2/3 - Groundwater

	Location	MW-6	MW-8	MW-9	MW-10	MW-11	MW-12
	Date	1/26/2012	1/26/2012	1/26/2012	1/26/2012	1/26/2012	1/26/2012
Parameter	Class I CUO						
Benzene	0.005	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Ethylbenzene	0.7	0.155	<0.002	<0.002	0.082	<0.002	<0.002
Toluene	1.0	0.356	<0.002	<0.002	0.111	0.005	<0.002
Total Xylenes	10.0	0.741	<0.005	<0.005	0.242	0.015	<0.005

Huck's #131 / Maiers Grocery
Site Assessment Data

Lead 8-15-13

	Location	L-1	L-1	L-2	L-2	L-3	L-3
	Depth	2.5'	7.5'	2.5'	7.5'	12.5'	2.5'
Parameter	Class I CUO						
Lead TCLP	0.0075	<0.0067	0.0071	<0.0067	<0.0067	<0.0067	0.0083

Huck's Maiers Grocery	
8/15/2013	
Sample ID: TACO	
Parameter	Result
FOC	0.0063 g/g
Gravel	0.1%
Sand	49.1%
Silt	42.2%
Clay	8.6%
Soil Bulk Density	1.398 gm/cm ³
Soil Specific Gravity	2.523
Percent Moisture	23.00%

SUBURBAN LABORATORIES, Inc.



INVOICE
FEIN # 36-2695636

4140 Litt Drive Hillside, Illinois 60162
Tel. (708) 544-3260 · Toll Free (800) 783-LABS
Fax (708) 544-8587
www.suburbanlabs.com

Remit To: Suburban Laboratories, Inc.
4140 Litt Dr.
Hillside, IL 60162-1183
Phone: 708-544-3260 Fax: 708-544-8587

Invoice#: 30733
Invoice Date: 8/31/2013

Terms: NET90
Invoice Due: 11/29/2013

Carol Rowe
ACCOUNTS PAYABLE
CWM Company, Inc
701 West South Grand
Springfield, IL 62704

Priority: Rush
PO:
Report To: Carol Rowe
Fax: (217) 522-8009

Work Order: 1308B10

Date Received: 8/20/2013

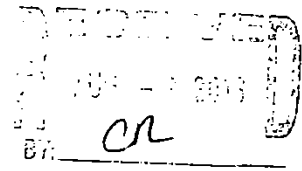
Project: Maier's Grocery

Item Description	Matrix	Remarks	Qty	Unit Price	% Disc.	Net Price	Total
TCLP Lead by ICP	Soil	July 2013 - June 2014	6	\$123.14			\$738.84
DRY BULK DENSITY	Soil		1	\$26.20			\$26.20
ORGANIC MATTER & ORGANIC CAR	Soil		1	\$45.25			\$45.25
PARTICLE-SIZE ANALYSIS OF SOILS	Soil		1	\$172.70			\$172.70
PERCENT MOISTURE	Soil		1	\$14.29			\$14.29
SOIL PARTICLE DENSITY	Soil		1	\$172.70			\$172.70

Miscellaneous Charge Summary				
Item	Unit	Qty	Total	
Shipping & Handling	\$59.55	0	\$0.00	
5035 Sampling Kit	\$11.91	0	\$0.00	

Sub Total: \$1,169.98
Misc. Charges: \$0.00
Surcharge: 0.00%
INVOICE Total: \$1,169.98
Pre-Paid Amount: \$0.00
Total Payable Amount: \$1,169.98

Comments: Terms per signed agreement



Illinois Department of Public Health Accredited #17585



Illinois Environmental Protection Agency Accredited #100225

SUBURBAN LABORATORIES, Inc.



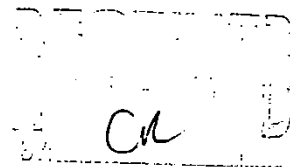
4140 Litt Drive Hillside, Illinois 60162
Tel. (708) 544-3260 • Toll Free (800) 783-LABS
Fax (708) 544-8587
www.suburbanlabs.com

August 31, 2013

Carol Rowe
CWM Company, Inc
701 West South Grand
Springfield, IL 62704

Workorder: 1308B10

TEL: (217) 522-8001
FAX: (217) 522-8009
RE: Maiers Grocery



Dear Carol Rowe:

Suburban Laboratories, Inc. received 7 sample(s) on 8/20/2013 for the analyses presented in the following report.

All data for the associated quality control (QC) met EPA, method, or internal laboratory specifications except where noted in the case narrative. If you are comparing these results to external QC specifications or compliance limits and have any questions, please contact us.

This final report of laboratory analysis consists of this cover letter, case narrative, analytical report, dates report, and any accompanying documentation on, but not limited to, chain of custody records, raw data, and letters of explanation or reliance. This report may not be reproduced, except in full, without the prior written approval of Suburban Laboratories, Inc.

If you have any questions regarding these test results, please call me at (708) 544-3260.

Sincerely,

Kelly Culhane
Project Manager
708-544-3260 ext. 212
kelly@suburbanlabs.com

Illinois Department of Public Health Accredited #17585



Illinois Environmental Protection Agency Accredited #100225



Suburban Laboratories, Inc.

4140 Litt Drive, Hillside, IL 60162 (708) 544-3260

Case Narrative

Client: CWM Company, Inc

Date: August 31, 2013

Project: Maiers Grocery

PO #:

WorkOrder: 1308B10

QC Level:

Temperature of samples upon receipt at SLI: 1 C

Chain of Custody #: 109368

General Comments:

- All results reported in wet weight unless otherwise indicated. (dry = Dry Weight)
- Sample results relate only to the analytes of interest tested and to sample as received by the laboratory.
- Environmental compliance sample results meet the requirements of 35 IAC Part 186 unless otherwise indicated.
- Waste water analysis follows the rules set forth in 40 CFR part 136 except where otherwise noted.
- Accreditation by the State of Illinois is not an endorsement or a guarantee of the validity of data generated.
- For more information about the laboratories' scope of accreditation, please contact us at (708) 544-3260 or the Agency at (217) 782-6455.

Abbreviations:

- Reporting Limit: The concentration at which an analyte can be routinely detected on a day to day basis, and which also meets regulatory and client needs.
- Quantitation Limit: The lowest concentration at which results can be accurately quantitated.
- J: The analyte was positively identified above our Method Detection Limit and is considered detectable and usable; however, the associated numerical value is the approximate concentration of the analyte in the sample.
- ATC: Automatic Temperature Correction. - TNTC: Too Numerous To Count
- In Laboratory: EPA recommends this analyte be analyzed "immediately" (e.g., tests that should be performed in the field within 15 minutes of collection). Analytes with "immediate" hold times are analyzed as soon as possible upon receipt by the laboratory.
- TIC: Tentatively Identified Compound (GCMS library search identification, concentration estimated to nearest internal standard).
- SS (Surrogate Standard): Quality control compound added to the sample by the lab.

Method References:

For a complete list of method references please contact us.

- E: USEPA Reference methods
- SW: USEPA, Test Methods for Evaluating Solid Waste (SW-846)
- M: Standard Methods for the Examination of Water and Wastewater
- USP: Latest version of United States Pharmacopeia

DETECTED
 8/31/13 10:10 AM
 BY: *CR*

Workorder Specific Comments:



Suburban Laboratories, Inc.

4140 Litt Drive, Hillside, IL 60162 (708) 544-3260

Laboratory Results

Client ID: CWM Company, Inc
Project Name: Maiers Grocery

Report Date: August 31, 2013
Workorder: 1308B10

Client Sample ID: L-1 2.5 Matrix: SOIL
Lab ID: 1308B10-001 Date Received: 08/20/2013 9:45 AM Collection Date: 08/15/2013 12:00 AM

Parameter Result Report Limit Qual. Units Dilution Factor Date Analyzed Batch ID

METALS BY ICP, TCLP LEACHED Method: EPA-1311/6010B-Rev 2, Dec-96 Analyst: jmk

Lead ND 0.0067 mg/L 1 08/22/2013 12:46 PM 17102

Client Sample ID: L-1 7.5 Matrix: SOIL
Lab ID: 1308B10-002 Date Received: 08/20/2013 9:45 AM Collection Date: 08/15/2013 12:00 AM

Parameter Result Report Limit Qual. Units Dilution Factor Date Analyzed Batch ID

METALS BY ICP, TCLP LEACHED Method: EPA-1311/6010B-Rev 2, Dec-96 Analyst: jmk

Lead 0.0071 0.0067 J mg/L 1 08/22/2013 12:49 PM 17102

Client Sample ID: L-2 2.5 Matrix: SOIL
Lab ID: 1308B10-003 Date Received: 08/20/2013 9:45 AM Collection Date: 08/15/2013 12:00 AM

Parameter Result Report Limit Qual. Units Dilution Factor Date Analyzed Batch ID

METALS BY ICP, TCLP LEACHED Method: EPA-1311/6010B-Rev 2, Dec-96 Analyst: jmk

Lead ND 0.0067 mg/L 1 08/22/2013 12:52 PM 17102

Client Sample ID: L-2 7.5 Matrix: SOIL
Lab ID: 1308B10-004 Date Received: 08/20/2013 9:45 AM Collection Date: 08/15/2013 12:00 AM

Parameter Result Report Limit Qual. Units Dilution Factor Date Analyzed Batch ID

METALS BY ICP, TCLP LEACHED Method: EPA-1311/6010B-Rev 2, Dec-96 Analyst: jmk

Lead ND 0.0067 mg/L 1 08/22/2013 12:56 PM 17102

Client Sample ID: L-3 2.5 Matrix: SOIL
Lab ID: 1308B10-005 Date Received: 08/20/2013 9:45 AM Collection Date: 08/15/2013 12:00 AM

Parameter Result Report Limit Qual. Units Dilution Factor Date Analyzed Batch ID

METALS BY ICP, TCLP LEACHED Method: EPA-1311/6010B-Rev 2, Dec-96 Analyst: jmk

Lead ND 0.0067 mg/L 1 08/22/2013 12:59 PM 17102

Handwritten signature and stamp area



Suburban Laboratories, Inc.

4140 Lin Drive, Hillside, IL 60162 (708) 544-3260

Laboratory Results

Client ID: CWM Company, Inc
Project Name: Maiers Grocery

Report Date: August 31, 2013
Workorder: 1308B10

Client Sample ID: L-3 7.5
Lab ID: 1308B10-006
Date Received: 08/20/2013 9:45 AM
Matrix: SOIL
Collection Date: 08/15/2013 12:00 AM

Table with 8 columns: Parameter, Result, Report Limit, Qual., Units, Dilution Factor, Date Analyzed, Batch ID. Row 1: METALS BY ICP, TCLP LEACHED. Row 2: Lead, 0.0083, 0.0067, J, mg/L, 1, 08/22/2013 1:02 PM, 17102.

Client Sample ID: TACO
Lab ID: 1308B10-007
Date Received: 08/20/2013 9:45 AM
Matrix: SOIL
Collection Date: 08/15/2013 12:00 AM

Table with 8 columns: Parameter, Result, Report Limit, Qual., Units, Dilution Factor, Date Analyzed, Batch ID. Rows include: DRY BULK DENSITY (Soil Bulk Density: 1.398), ORGANIC MATTER & ORGANIC CARBON CONTENT (FOM: 0.0109, FOC: 0.00630), PARTICLE-SIZE ANALYSIS OF SOILS (Particle Density: Complete, Sieve Analysis: Complete), SOIL PARTICLE DENSITY (Soil Particle Density: 2.523), PERCENT MOISTURE (Percent Moisture: 23).

Handwritten signature 'CR' inside a dashed rectangular box.



SUBURBAN LABORATORIES, Inc.
 4140 Litt Drive · Hillside, Illinois 60162-1183
 Tel. (708) 544-3260 · Toll Free (800) 783-LABS · Fax (708) 544-8587
www.suburbanlabs.com



SLI Work Order: 1308B10-
 SLI Sample ID: 1308B10-007A

Analysis Date: 8/27/2013


Standard Test Method for Particle-Size Analysis of Soil

Sieve (U.S.)	Sieve Opening (mm)	Percent Retained
		1308B10-007A
1-1/2"	38.1	0.00%
1"	25.4	0.00%
0.75"	19.1	0.0%
No. 4	4.75	0.1%
No. 10	2.00	2.6%
No. 20	0.85	15.5%
No. 40	0.420	13.1%
No. 60	0.250	9.6%
No. 140	0.106	6.6%
No. 200	0.075	1.7%


Particle(s)	Particle Size (mm)	Percent Present
		1308B10-007A
Gravel	>4.75	0.1%
Sand, Course	4.74-2.0	2.6%
Sand, Medium	1.99-0.420	28.6%
Sand, Fine	0.419-0.075	17.8%
Silt	0.074-0.005	42.2%
Clay	<0.005-0.001	2.8%
Colloids	<0.001	5.8%

Analyst: _____

Date: _____

Reviewed:  Digitally signed by Monica Zupan
 Reason: I have reviewed this document
 Date: 2013.08.29 10:21:50 -0500

Date: _____





SUBURBAN LABORATORIES, Inc.
4140 Litt Drive · Hillside, Illinois 60162-1183
Tel. (708) 544-3260 · Toll Free (800) 783-LABS · Fax (708) 544-8587
www.suburbanlabs.com

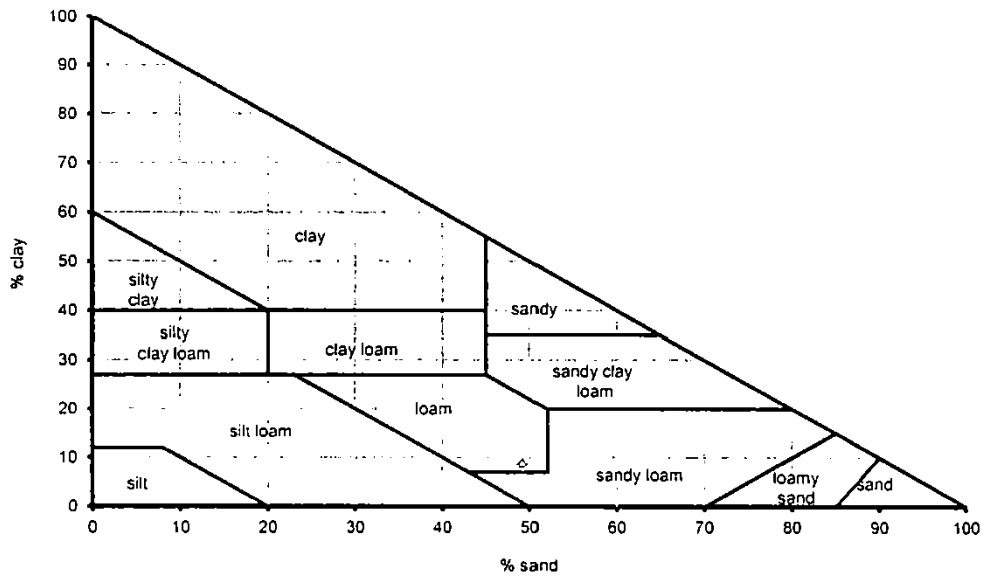


SLI Work Order: 1308B10-
SLI Sample ID: 1308B10-007A

Analysis Date: 8/27/2013

% SAND	% CLAY	% SILT
49.1	8.6	42.21

Soil Classification: Loam



Textural triangle by A. Gerakis and B. Baer, 26 July 2000.

CR



Suburban Laboratories, Inc.
4140 Litt Drive, Hillside, IL 60162 (708) 544-3260

PREP DATES REPORT

Client: CWM Company, Inc
Project: Maiers Grocery

Report Date: August 31, 2013
Lab Order: 1308B10

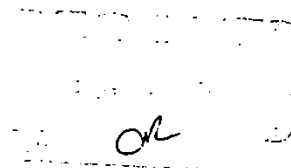
Sample ID	Collection Date	Batch ID	Prep Method	Prep Test Name	TCLP Date	Prep Date
1308B10-001A	8/15/2013	17102	200.2_ICPT_PR	AQUEOUS PREP TOTAL METALS: ICP		8/21/2013
		17080	1311LM	TCLP SAMPLE PREP (Metals)		8/20/2013
1308B10-002A		17102	200.2_ICPT_PR	AQUEOUS PREP TOTAL METALS: ICP		8/21/2013
		17080	1311LM	TCLP SAMPLE PREP (Metals)		8/20/2013
1308B10-003A		17102	200.2_ICPT_PR	AQUEOUS PREP TOTAL METALS: ICP		8/21/2013
		17080	1311LM	TCLP SAMPLE PREP (Metals)		8/20/2013
1308B10-004A		17102	200.2_ICPT_PR	AQUEOUS PREP TOTAL METALS: ICP		8/21/2013
		17080	1311LM	TCLP SAMPLE PREP (Metals)		8/20/2013
1308B10-005A		17102	200.2_ICPT_PR	AQUEOUS PREP TOTAL METALS: ICP		8/21/2013
		17080	1311LM	TCLP SAMPLE PREP (Metals)		8/20/2013
1308B10-006A		17102	200.2_ICPT_PR	AQUEOUS PREP TOTAL METALS: ICP		8/21/2013
		17080	1311LM	TCLP SAMPLE PREP (Metals)		8/20/2013

CR



Qualifiers:

- */x Value exceeds Maximum Contaminant Level
- B Analyte detected in the associated Method Blank
- c Analyte not in SLI scope of accreditation
- E Estimated, detected above quantitation range
- G Refer to case narrative page for specific comments
- H Holding times for preparation or analysis exceeded
- J Analyte detected below quantitation limit (QL)
- N Tentatively identified compounds
- ND Not Detected at the Reporting Limit
- P Present
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits





SUBURBAN LABORATORIES, Inc.

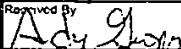

4140 Litt Drive Hillside, IL 60162 Tel. 708.544.3260 Fax: 708.544.8587 Toll Free: 800.783.LABS www.suburbanlabs.com

CHAIN OF CUSTODY RECORD # 109368

Company Name CW3M Company, Inc.		TURNAROUND TIME REQUESTED <input type="checkbox"/> Normal <input type="checkbox"/> RUSH* *Additional Rush Charges Approved.		ANALYSIS & METHOD REQUESTED Enter an "X" in box below for request:		Page of	
Company Address 701 West South Grand Ave.		*Date & Time Needed:		Shipping Method		PO No.	
City Springfield State IL Zip 62764		Normal TAT is specified on the price quotation or fee schedule. Rush work must be pre-approved and additional charges apply.		<input checked="" type="checkbox"/> Bulk Density <input checked="" type="checkbox"/> Moisture <input checked="" type="checkbox"/> FOC <input checked="" type="checkbox"/> Particle Density/Solids <input checked="" type="checkbox"/> Specific Gravity		Reporting Level (at additional charge) 1 2 3 4	
Phone 217 522 8001 Fax 522-8009 <input type="checkbox"/> Fax Report		Specify Regulatory Program: <input type="checkbox"/> None/Info Only (Required)		LAB USE ONLY		SLI ORDER No. 13089310	
Email Address CW3M@CW3MCompany.com Final Report will be emailed		<input checked="" type="checkbox"/> LUST <input type="checkbox"/> SRP <input type="checkbox"/> SDWA		Sample containers supplied by customer? <input type="checkbox"/> Yes		Temperature of Received Samples _____ °C	
Project ID / Location Maier's Grocery		<input type="checkbox"/> 503 Sludge <input type="checkbox"/> NPDES <input type="checkbox"/> MWRDGC		Samples received the same day as collection? <input type="checkbox"/> Yes		R Condition Spill LAB #	
Project Manager (Report to) Carol Rowe		<input type="checkbox"/> Disposal <input type="checkbox"/> Other* *Please specify in comment section below.					
Sample Collector(s) Name MDR							

SAMPLE IDENTIFICATION *Use One Line Per Preservation & Container Type*	COLLECTION		MATRIX	GRAB/COMP.	CONTAINERS		PRESERVATIVE	TCLP LEAD	R	Condition	Spill	LAB #
	DATE	TIME			Qty	SIZE & TYPE						
1 L-1 2.5'	8/15/13		S		2	4oz	None	X				1A
2 L-1 7.5'								X				2A
3 L-2 2.5'								X				3A
4 L-2 7.5'								X				4A
5 L-3 2.5'								X				5A
6 L-3 7.5'								X				6A
7 TACO	↓ ↓ ↓		↓		1	1.5L 4oz		X	X	X	X	7A, B
8												
9												
10												
11												
12												

MATRIX: Drinking Water (DW), Soil (S), Waste Water (WW), Surface Water (SW), Ground Water (GW), Solid Waste (WA), Sludge (U), Wipe (P) CONTAINER: 2oz, 4oz, 8oz, 40ml Vial, 500ml, Liter (L), Tube, Glass (G), Plastic (P) PRESERVATIVE: H ₂ SO ₄ , HCl, HNO ₃ , Methanol (MeOH), NaOH, Sodium Bisulfate (NaB), NaThio	COMMENTS & SPECIAL INSTRUCTIONS: Rates 2013-2014				CONDITION CODES 1. Improper/damaged container/cap 2. Improper preservation 3. Insufficient sample volume 4. Headspace/fair bubbles for VOCs 5. Received past holding time 6. Received frozen 7. Label conflicts with COC
	1. Requisitioned By:  Date: 8-19-13 2. Requisitioned By: Andy Shym Date: 8-20-13 3. Requisitioned By: _____ Date: _____ 4. Requisitioned By: _____ Date: _____				

1. Received By:  <input type="checkbox"/> Ice present Time: 8:15 AM	2. Received By:  <input type="checkbox"/> Ice present Time: 9:45	3. Received By: _____ <input type="checkbox"/> Ice present Time: _____	4. Received By: _____ <input type="checkbox"/> Ice present Time: _____
--	---	---	---

Submission of samples subject to Terms and Conditions of back. Rev. 07/2008 White-Original, Pink-Sampler Copy



Illinois Environmental Protection Agency

Bureau of Land • 1021 N. Grand Avenue E. • P.O. Box 19276 • Springfield • Illinois • 62794-9276

The Agency is authorized to require this information under Section 4 and Title XVI of the Environmental Protection Act (415 ILCS 5/4, 5/57 – 57.17). Failure to disclose this information may result in a civil penalty of not to exceed \$50,000.00 for the violation and an additional civil penalty of not to exceed \$10,000.00 for each day during which the violation continues (415 ILCS 5/42). Any person who knowingly makes a false material statement or representation, orally or in writing, in any label, manifest, record, report, permit, or license, or other document filed, maintained or used for the purpose of compliance with Title XVI commits a Class 4 felony. Any second or subsequent offense after conviction hereunder is a Class 3 felony (415 ILCS 5/44 and 57.17). This form has been approved by the Forms Management Center.

Leaking Underground Storage Tank Program Laboratory Certification for Physical Soil Analysis

CR

A. Site Identification

IEMA Incident # (6- or 8-digit): 09-1397 IEPA LPC# (10-digit): _____

Site Name: Martinez Grocery

Site Address (Not a P.O. Box): Main St. 1

City: Crossville County: _____ ZIP Code: _____

Leaking UST Technical File

B. Sample Collector

I certify that:

1. Samples were collected using ASTM procedures.
2. Chain-of-custody procedures were followed in the field.
3. Sample integrity was maintained by proper preservation.
4. All samples were properly labeled.

NR
(Initial)

NR
(Initial)

NR
(Initial)

NR
(Initial)

C. Laboratory Representative

I certify that:

1. Proper chain-of-custody procedures were followed as documented on the chain-of-custody forms
2. Sample integrity was maintained by proper preservation.
3. All samples were properly labeled.
4. Quality assurance/quality control procedures were established and carried out.
5. The test methods specified in the ASTM Standard D 422-63 or or D 1140-54 were used for particle size analysis.

RP
(Initial)

RP
(Initial)

RP
(Initial)

RP
(Initial)

RP
(Initial)

6. The test methods specified in ASTM Standards D 2216-90 or D 4643-87 were used for soil moisture content.

RP
(Initial)

7. The test methods specified in ASTM Standards D 2487-90 or D 2488-90 were used for soil classification.

RP
(Initial)

8. The test methods specified in ASTM Standards D 5084-90 or D 4525-90 were used for hydraulic conductivity.

RP
(Initial)

D. Signatures

I hereby affirm that all information contained in this form is true and accurate to the best of my knowledge and belief. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Sample Collector

Name Matt Rives
Title Engineer
Company CWM Company, Inc.
Address 701 South Grand Ave. West
City Springfield
State IL
Zip Code 62704
Phone 217-522-8001
Signature *Matt Rives*
Date 8-15-13

Laboratory Representative

Name Kelly Culhane
Title Project Manager
Company Suburban Laboratorfes, Inc.
Address 414- Litt Drive
City Hillside
State IL
Zip Code 62704
Phone 708-544-3260
Signature *K Culhane*
Date 9/3/2013

CR



Illinois Environmental Protection Agency

Bureau of Land • 1021 N. Grand Avenue E. • P.O. Box 19276 • Springfield • Illinois • 62794-9276

The Agency is authorized to require this information under Section 4 and Title XVI of the Environmental Protection Act (415 ILCS 5/4, 5/57 - 57.17). Failure to disclose this information may result in a civil penalty of not to exceed \$50,000.00 for the violation and an additional civil penalty of not to exceed \$10,000.00 for each day during which the violation continues (415 ILCS 5/42). Any person who knowingly makes a false material statement or representation, orally or in writing, in any label, manifest, record, report, permit, or license, or other document filed, maintained or used for the purpose of compliance with Title XVI commits a Class 4 felony. Any second or subsequent offense after conviction hereunder is a Class 3 felony (415 ILCS 5/44 and 57.17). This form has been approved by the Forms Management Center.

Leaking Underground Storage Tank Program Laboratory Certification for Chemical Analysis

CR

A. Site Identification

IEMA Incident # (6- or 8-digit): 09-1397 IEPA LPC# (10-digit): _____
Site Name: Maries Grocery
Site Address (Not a P.O. Box): 600 Main St 3 (t.1)
City: Grossville County: _____ ZIP Code: _____

Leaking UST Technical File

B. Sample Collector

I certify that:

1. Appropriate sampling equipment/methods were utilized to obtain representative samples.
2. Chain-of-custody procedures were followed in the field.
3. Sample integrity was maintained by proper preservation.
4. All samples were properly labeled.

MR
(Initial)
MR
(Initial)
MR
(Initial)
MR
(Initial)

C. Laboratory Representative

I certify that:

1. Proper chain-of-custody procedures were followed as documented on the chain-of-custody forms
2. Sample integrity was maintained by proper preservation.
3. All samples were properly labeled.
4. Quality assurance/quality control procedures were established and carried out.
5. Sample holding times were not exceeded.

RP
(Initial)
RP
(Initial)
RP
(Initial)
RP
(Initial)
RP
(Initial)

6. SW-846 Analytical Laboratory Procedure (USEPA) methods were used for the analyses.
7. An accredited lab performed quantitative analysis using test methods identified in 35 IAC 186.180 (for samples collected on or after January 1, 2003).

RA
(Initial)

RB
(Initial)

D. Signatures

I hereby affirm that all information contained in this form is true and accurate to the best of my knowledge and belief. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Sample Collector

Name Matt Rives

Title Engineer

Company CWM Company, Inc.

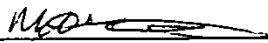
Address 701 South Grand Ave. West

City Springfield

State IL

Zip Code 62704

Phone 217-522-8001

Signature 

Date 8-15-13

Laboratory Representative

Name Kelly Cullane

Title Quality Manager

Company Suburban Laboratories, Inc.


Address 414- Litt Drive

City Hillside

State IL

Zip Code 62704

Phone 708-544-3260

Signature 

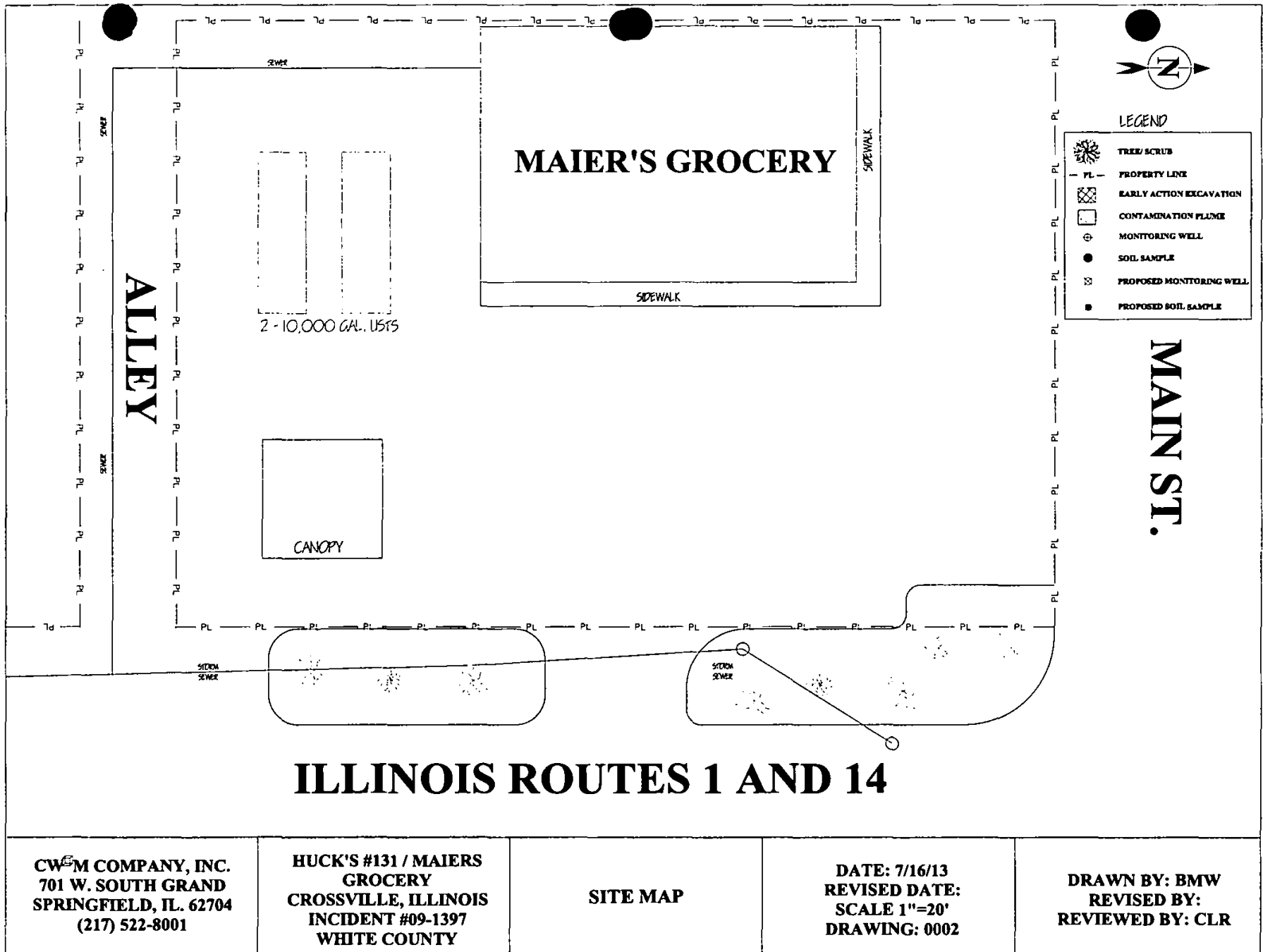
Date 9/3/2013

CW

Attachment B

MAPS

**AMENDED STAGE 2 / 3 SITE
INVESTIGATION PLAN AND BUDGET
HUCK'S #131 / MAIERS GROCERY
CROSSVILLE, ILLINOIS**



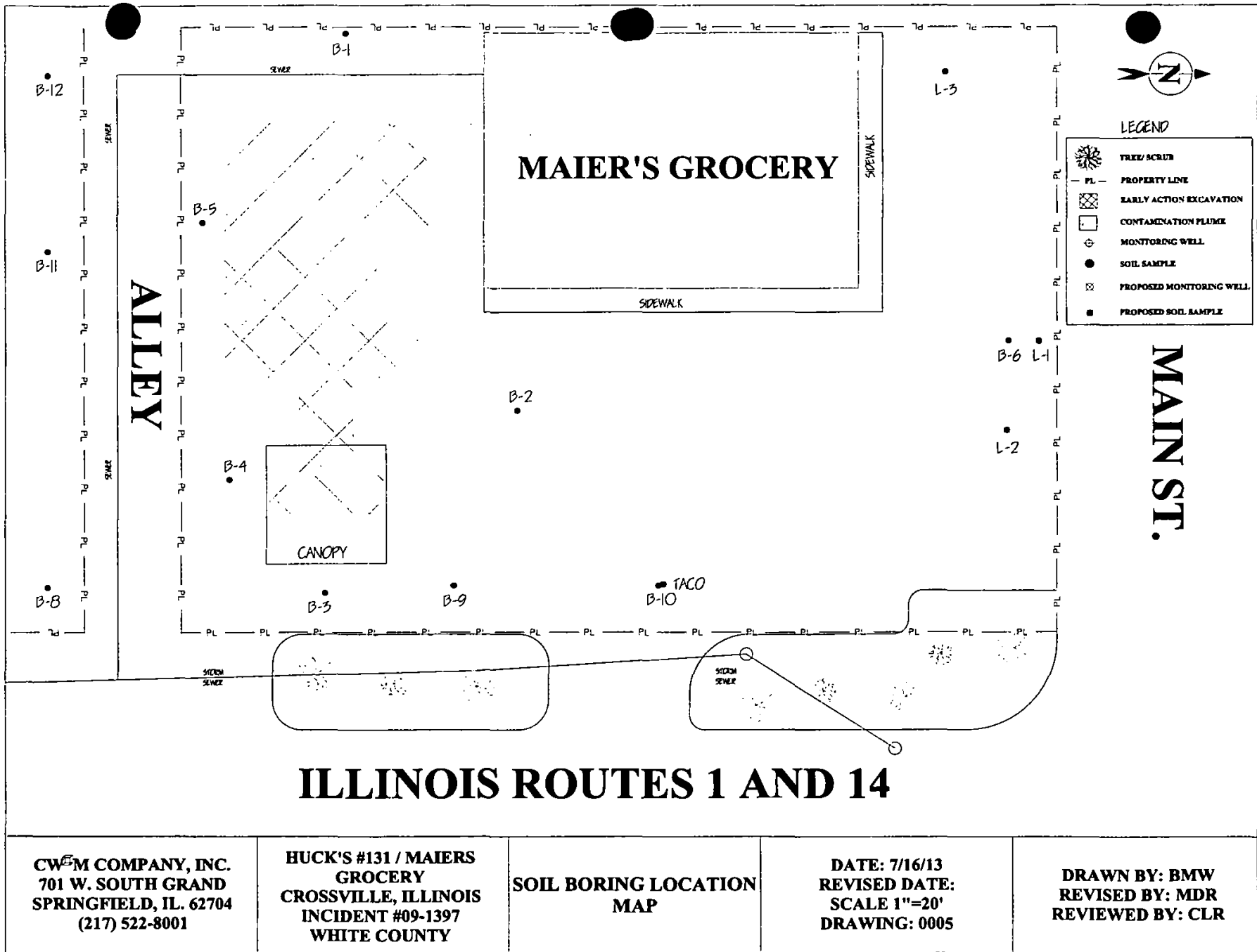
CWM COMPANY, INC.
 701 W. SOUTH GRAND
 SPRINGFIELD, IL. 62704
 (217) 522-8001

**HUCK'S #131 / MAIERS
 GROCERY
 CROSSVILLE, ILLINOIS
 INCIDENT #09-1397
 WHITE COUNTY**

SITE MAP

**DATE: 7/16/13
 REVISED DATE:
 SCALE 1"=20'
 DRAWING: 0002**

**DRAWN BY: BMW
 REVISED BY:
 REVIEWED BY: CLR**



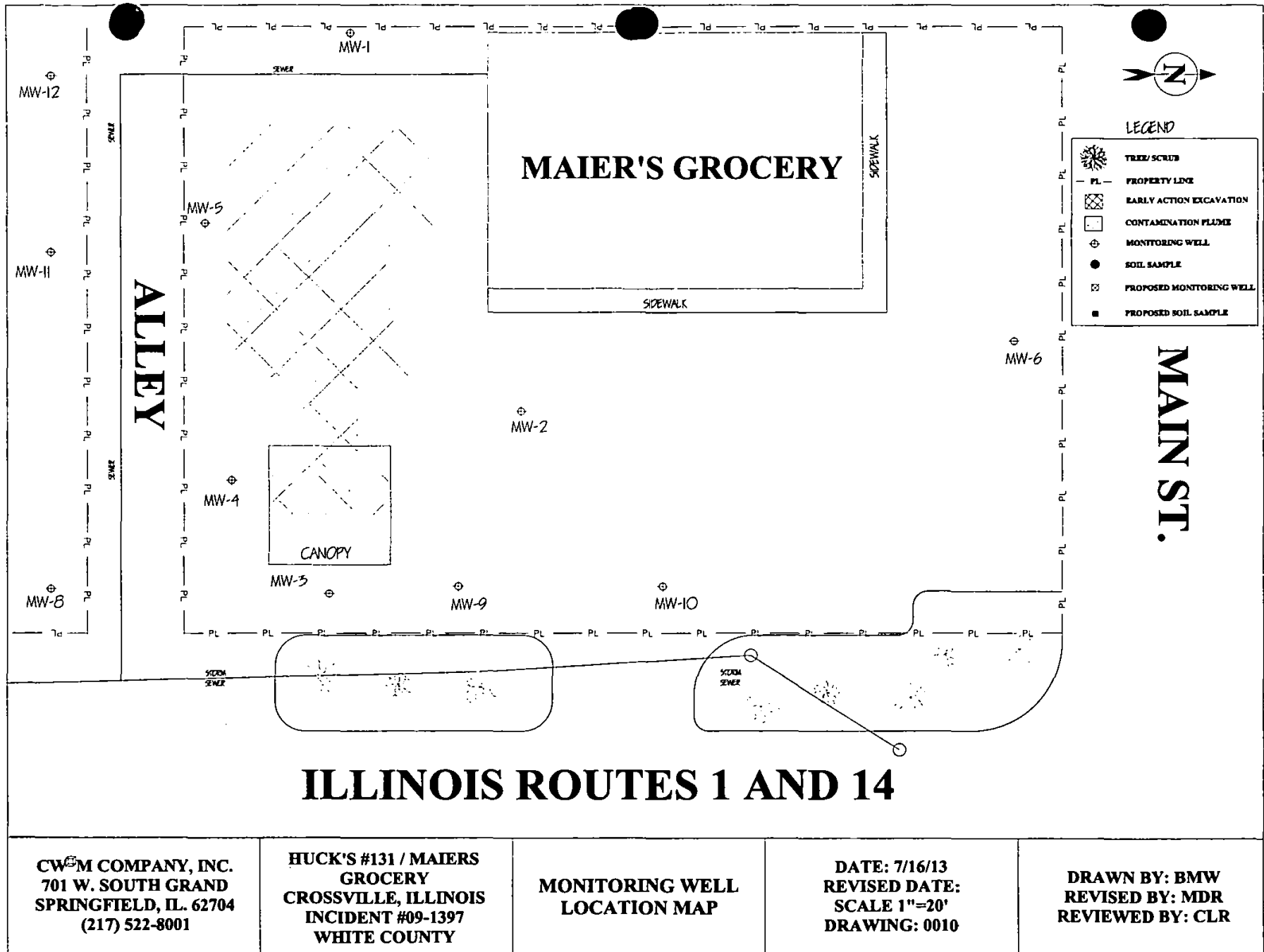
CWM COMPANY, INC.
 701 W. SOUTH GRAND
 SPRINGFIELD, IL. 62704
 (217) 522-8001

HUCK'S #131 / MAIERS
 GROCERY
 CROSSVILLE, ILLINOIS
 INCIDENT #09-1397
 WHITE COUNTY

SOIL BORING LOCATION
 MAP

DATE: 7/16/13
 REVISED DATE:
 SCALE 1"=20'
 DRAWING: 0005

DRAWN BY: BMW
 REVISED BY: MDR
 REVIEWED BY: CLR



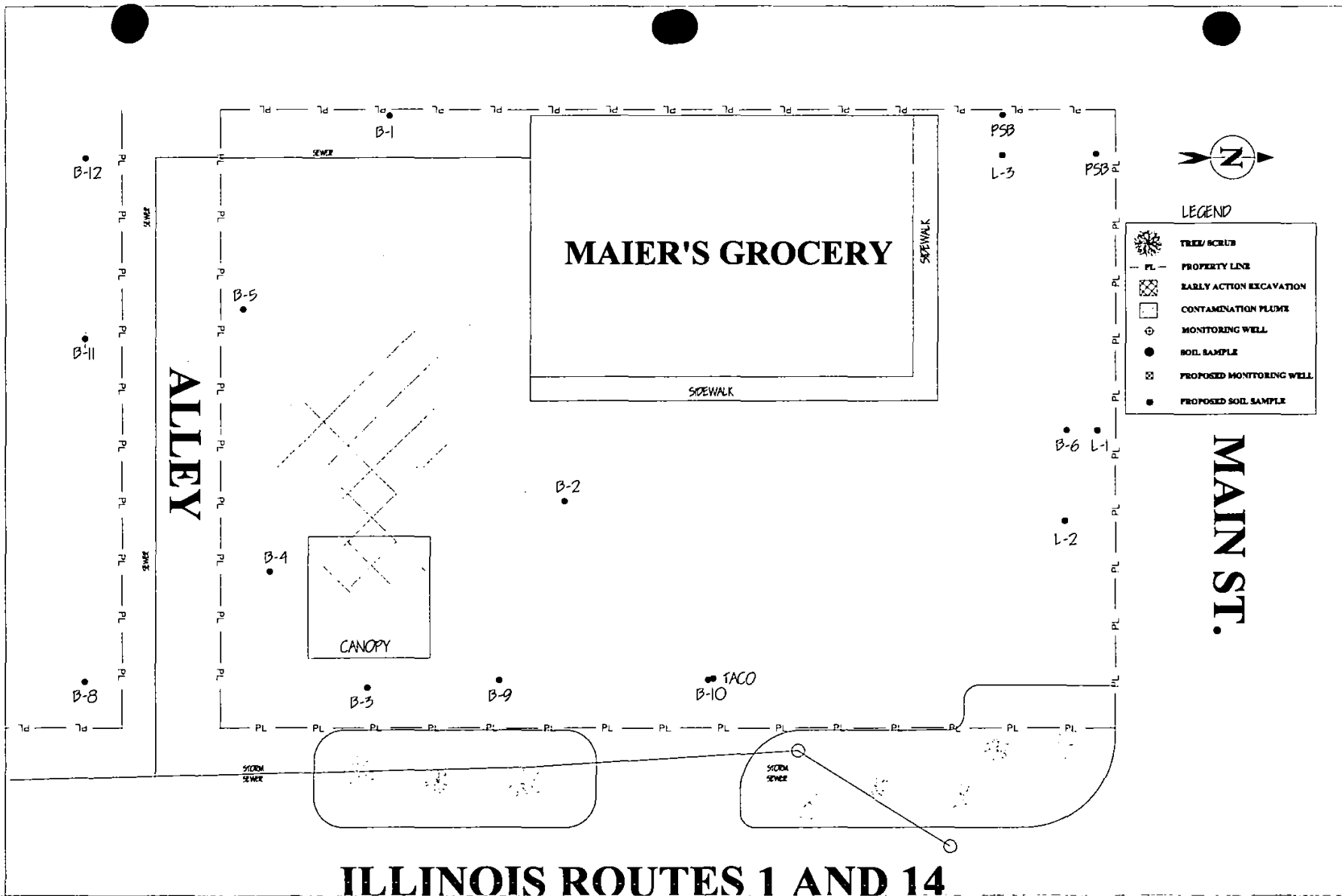
CWM COMPANY, INC.
 701 W. SOUTH GRAND
 SPRINGFIELD, IL. 62704
 (217) 522-8001

**HUCK'S #131 / MAIERS
 GROCERY**
 CROSSVILLE, ILLINOIS
 INCIDENT #09-1397
 WHITE COUNTY

**MONITORING WELL
 LOCATION MAP**

DATE: 7/16/13
REVISED DATE:
SCALE 1"=20'
DRAWING: 0010

DRAWN BY: BMW
REVISED BY: MDR
REVIEWED BY: CLR



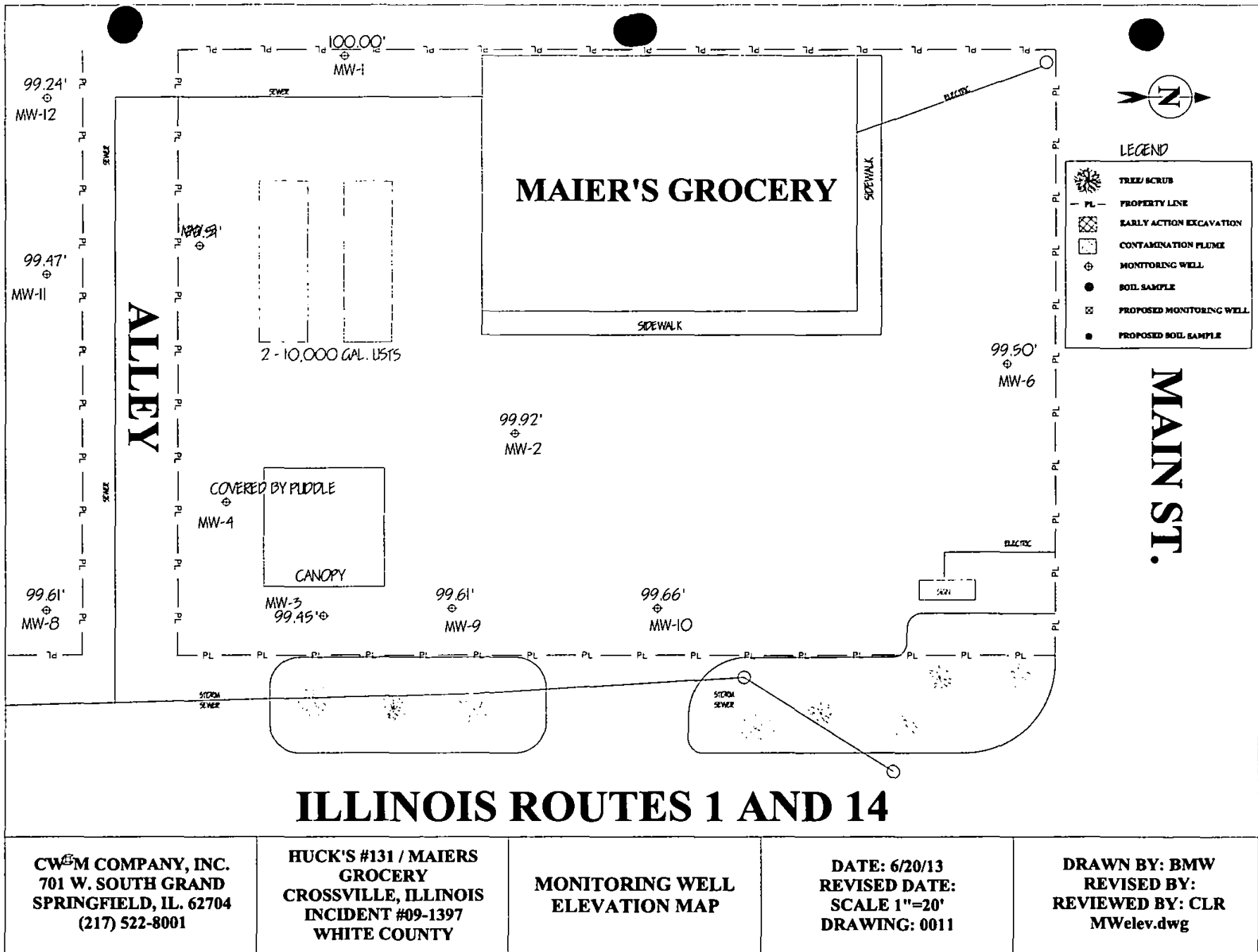
CWM COMPANY, INC.
 701 W. SOUTH GRAND
 SPRINGFIELD, IL. 62704
 (217) 522-8001

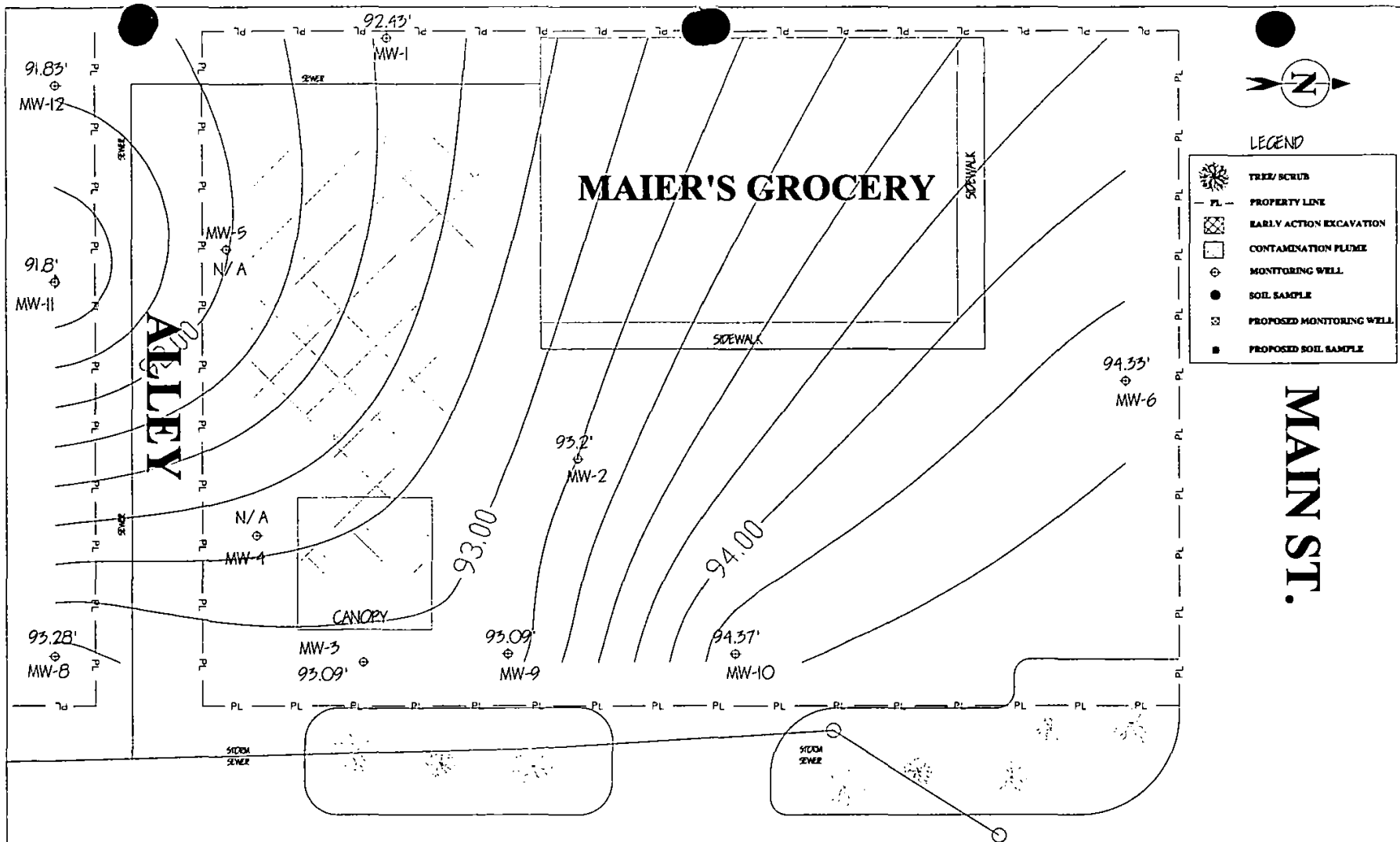
HUCK'S #131 / MAIERS
 GROCERY
 CROSSVILLE, ILLINOIS
 INCIDENT #09-1397
 WHITE COUNTY

PROPOSED SOIL BORING
 LOCATION MAP

DATE: 7/16/13
 REVISED DATE:
 SCALE 1"=20'
 DRAWING: 0008

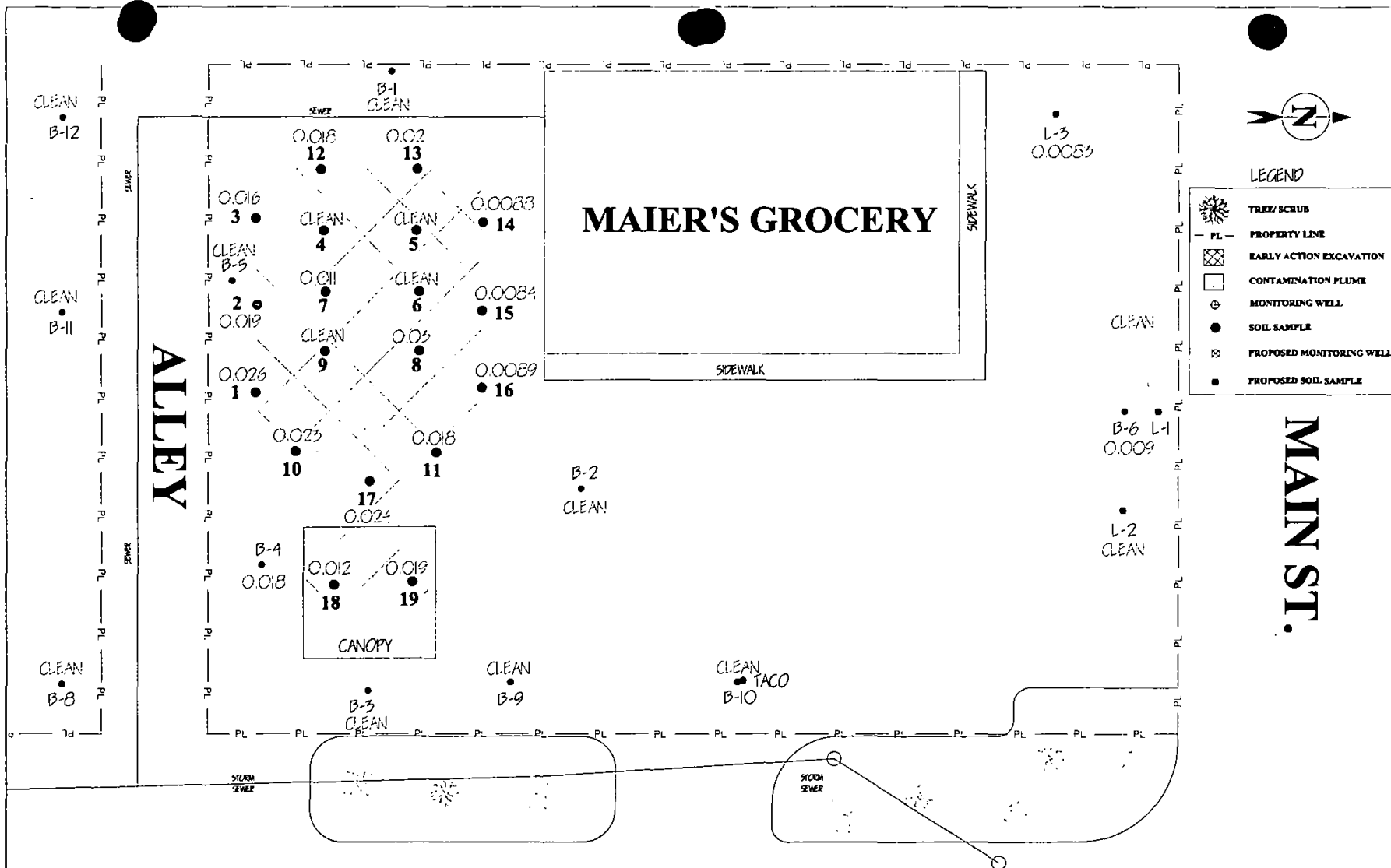
DRAWN BY: BMW
 REVISED BY: MDR
 REVIEWED BY: CLR





ILLINOIS ROUTES 1 AND 14

<p>CWM COMPANY, INC. 701 W. SOUTH GRAND SPRINGFIELD, IL. 62704 (217) 522-8001</p>	<p>HUCK'S #131 / MAIERS GROCERY CROSSVILLE, ILLINOIS INCIDENT #09-1397 WHITE COUNTY</p>	<p>GROUDWATER ELEVATION MAP</p>	<p>DATE: 7/16/13 REVISED DATE: SCALE 1"=20' DRAWING: 0012</p>	<p>DRAWN BY: BMW REVISED BY: MDR REVIEWED BY: CLR</p>
---	--	---	---	--

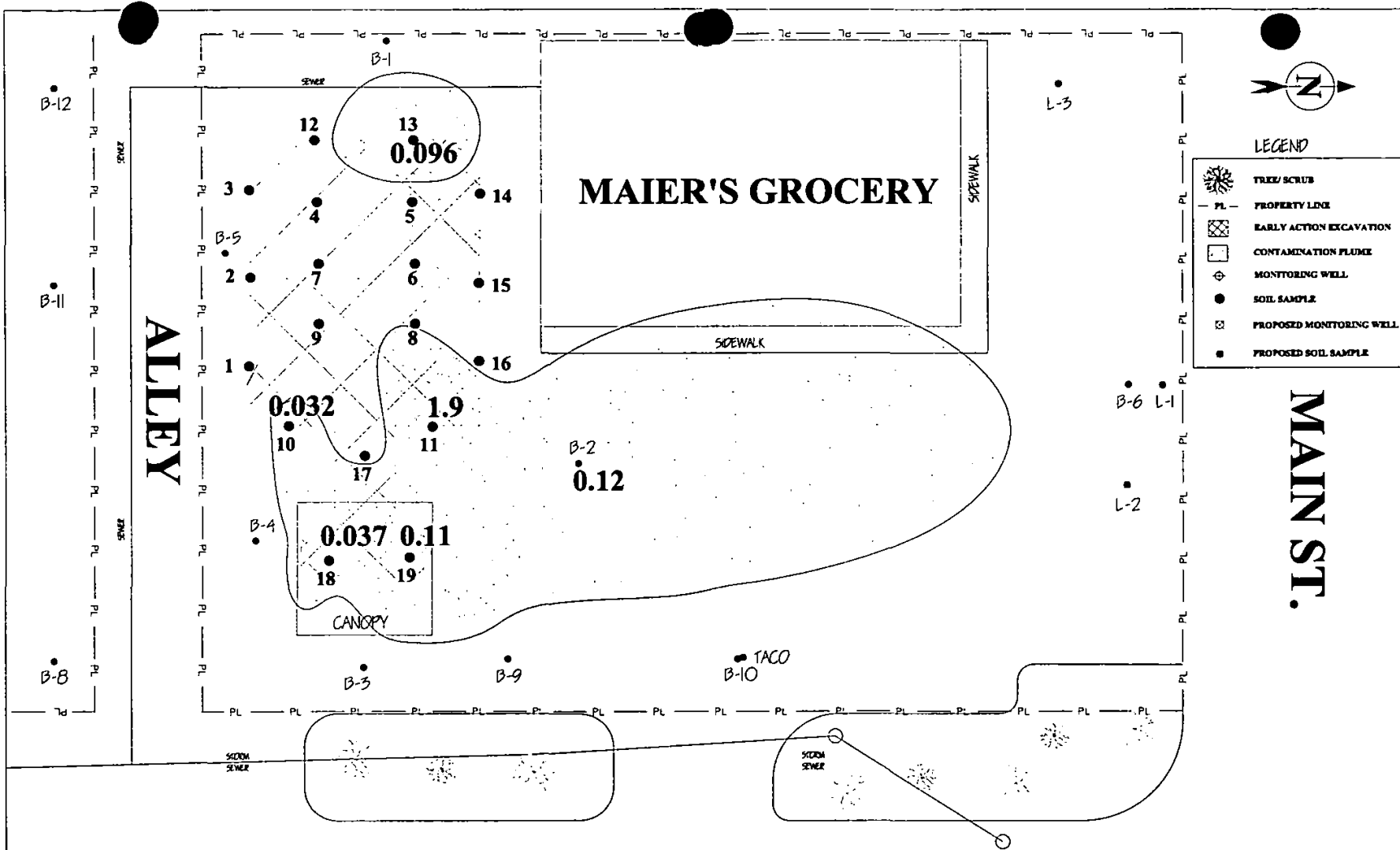


LEGEND

- TREE/ SCRUB
- PL - PROPERTY LINE
- EARLY ACTION EXCAVATION
- CONTAMINATION PLUME
- MONITORING WELL
- SOIL SAMPLE
- PROPOSED MONITORING WELL
- PROPOSED SOIL SAMPLE

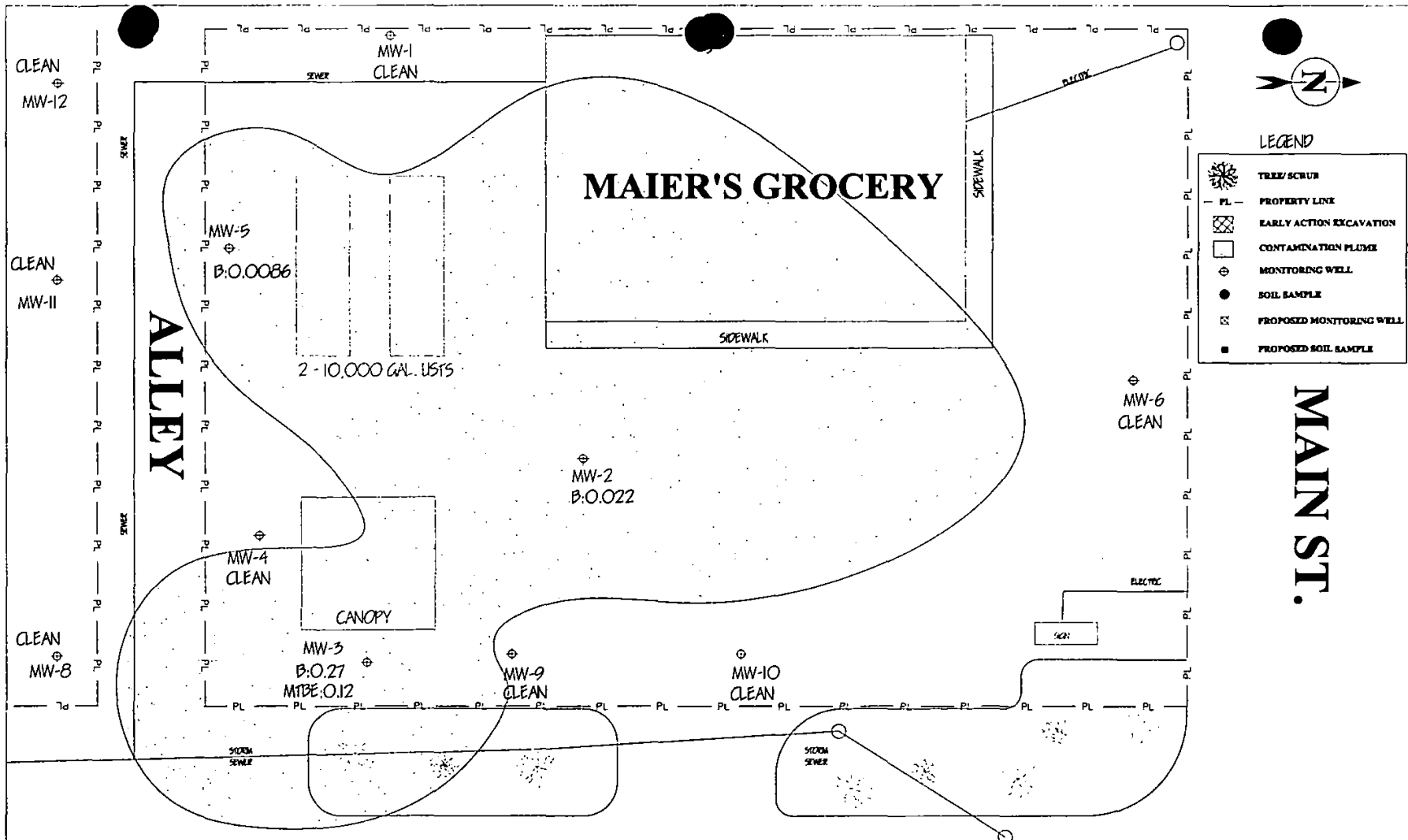
ILLINOIS ROUTES 1 AND 14

<p>CWM COMPANY, INC. 701 W. SOUTH GRAND SPRINGFIELD, IL. 62704 (217) 522-8001</p>	<p>HUCK'S #131 / MAIERS GROCERY CROSSVILLE, ILLINOIS INCIDENT #09-1397 WHITE COUNTY</p>	<p>LEAD VALUE MAP</p>	<p>DATE: 7/16/13 REVISED DATE: SCALE 1"=20' DRAWING: 0007</p>	<p>DRAWN BY: BMW REVISED BY: MDR REVIEWED BY: CLR</p>
---	---	-----------------------	---	---



ILLINOIS ROUTES 1 AND 14

<p>CWM COMPANY, INC. 701 W. SOUTH GRAND SPRINGFIELD, IL. 62704 (217) 522-8001</p>	<p>HUCK'S #131 / MAIERS GROCERY CROSSVILLE, ILLINOIS INCIDENT #09-1397 WHITE COUNTY</p>	<p>BENZENE SOIL CONTAMINATION PLUME MAP</p>	<p>DATE: 7/16/13 REVISED DATE: SCALE 1"=20' DRAWING: 0006</p>	<p>DRAWN BY: BMW REVISED BY: MDR REVIEWED BY: CLR</p>
--	--	--	---	--



ILLINOIS ROUTES 1 AND 14

<p>CWSMM COMPANY, INC. 701 W. SOUTH GRAND SPRINGFIELD, IL. 62704 (217) 522-8001</p>	<p>HUCK'S #131 / MAIERS GROCERY CROSSVILLE, ILLINOIS INCIDENT #09-1397 WHITE COUNTY</p>	<p>GROUNDWATER PLUME MAP</p>	<p>DATE: 7/16/13 REVISED DATE: SCALE 1"=20' DRAWING: 0013</p>	<p>DRAWN BY: BMW REVISED BY: MDR REVIEWED BY: CLR</p>
--	--	--	--	--

Attachment C

BUDGET

**AMENDED STAGE 2 / 3 SITE
INVESTIGATION PLAN AND BUDGET
HUCK'S #131 / MAIERS GROCERY
CROSSVILLE, ILLINOIS**

Owner/Operator and Licensed Professional Engineer/Geologist Budget Certification Form

I hereby certify that I intend to seek payment from the UST Fund for costs incurred while performing corrective action activities for Leaking UST incident 2009-1397. I further certify that the costs set forth in this budget are for necessary activities and are reasonable and accurate to the best of my knowledge and belief. I also certify that the costs included in this budget are not for corrective action in excess of the minimum requirements of 415 ILCS 5/57, no costs are included in this budget that are not described in the corrective action plan, and no costs exceed Subpart H: Maximum Payment Amounts, Appendix D Sample Handling and Analysis amounts, and Appendix E Personnel Titles and Rates of 35 Ill. Adm. Code 732 or 734. I further certify that costs ineligible for payment from the Fund pursuant to 35 Ill. Adm. Code 732.606 or 734.630 are not included in the budget proposal or amendment. Such ineligible costs include but are not limited to:

- Costs associated with ineligible tanks.
- Costs associated with site restoration (e.g., pump islands, canopies).
- Costs associated with utility replacement (e.g., sewers, electrical, telephone, etc.).
- Costs incurred prior to IEMA notification.
- Costs associated with planned tank pulls.
- Legal fees or costs.
- Costs incurred prior to July 28, 1989.
- Costs associated with installation of new USTs or the repair of existing USTs.

Owner/Operator: Martin & Bayley, Inc.

Authorized Representative: Mark Bayley

Title: Sharma

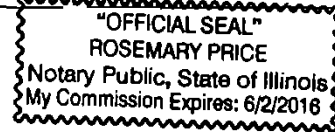
Signature: _____

Date: 9/25/2013

Subscribed and sworn to before me the 25th day of September

Rosemary Price
(Notary Public)

Seal:



RECEIVED

OCT 01 2013

EPA/BOL

In addition, I certify under penalty of law that all activities that are the subject of this plan, budget, or report were conducted under my supervision or were conducted under the supervision of another Licensed Professional Engineer or Licensed Professional Geologist and reviewed by me; that this plan, budget, or report and all attachments were prepared under my supervision; that, to the best of my knowledge and belief, the work described in the plan, budget, or report has been completed in accordance with the Environmental Protection Act [415 ILCS 5], 35 Ill. Adm. Code 732 or 734, and generally accepted standards and practices of my profession; and that the information presented is accurate and complete. I am aware there are significant penalties for submitting false statements or representations to the Illinois EPA, including but not limited to fines, imprisonment, or both as provided in Sections 44 and 57.17 of the Environmental Protection Act [415 ILCS 5/44 and 57.17].

L.P.E./L.P.G.: Vince E. Smith

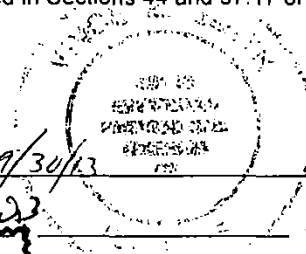
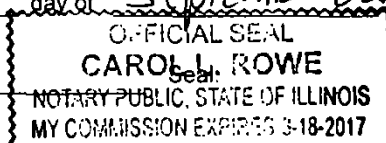
L.P.E./L.P.G. Seal:

L.P.E./L.P.G. Signature: _____

Date: 9/30/13

Subscribed and sworn to before me the 30th day of September

Carol Rowe
(Notary Public)



The Illinois EPA is authorized to require this information under 415 ILCS 5/7. Disclosure of this information is required. Failure to do so may result in the delay or denial of any budget or payment requested hereunder.



Illinois Environmental Protection Agency

Bureau of Land • 1021 N. Grand Avenue E. • P.O. Box 19276 • Springfield • Illinois • 62794-9276

General Information for the Budget and Billing Forms

LPC #: 1930155021 County: White

City: Crossville Site Name: Huck's #131 / Maier's Grocery

Site Address: 109 South State Street

IEMA Incident No.: 20091397

IEMA Notification Date: Dec 16, 2009

Date this form was prepared: Sep 18, 2013

RECEIVED

OCT 01 2013

This form is being submitted as a (check one, if applicable):

- Budget Proposal
- Budget Amendment (Budget amendments must include only the costs over the previous budget.)
- Billing Package

IEPA/BOL

Please provide the name(s) and date(s) of report(s) documenting the costs requested:

Name(s): _____

Date(s): _____

This package is being submitted for the site activities indicated below:

35 III. Adm. Code 734:

- Early Action
- Free Product Removal after Early Action
- Site Investigation Stage 1: Stage 2: Stage 3:
- Corrective Action Actual Costs Proposed Proposed

35 III. Adm. Code 732:

- Early Action
- Free Product Removal after Early Action
- Site Classification
- Low Priority Corrective Action
- High Priority Corrective Action

35 III. Adm. Code 731:

- Site Investigation
- Corrective Action

General Information for the Budget and Billing Forms

The following address will be used as the mailing address for checks and any final determination letters regarding payment from the Fund.

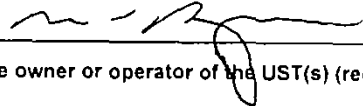
Pay to the order of: Martin & Bayley, Inc.

Send in care of: CWM Company, Inc.

Address: P.O. Box 385

City: Carmi State: Illinois Zip: 62821

The payee is the: Owner Operator (Check one or both.)


 Signature of the owner or operator of the UST(s) (required)

If you have a change of address, [click here](#) to print off a W-9 Form.

Number of petroleum USTs in Illinois presently owned or operated by the owner or operator; any subsidiary, parent or joint stock company of the owner or operator; and any company owned by any parent, subsidiary or joint stock company of the owner or operator:

Fewer than 101: 101 or more:

Number of USTs at the site: 4 (Number of USTs includes USTs presently at the site and USTs that have been removed.)

Number of incidents reported to IEMA for this site: 1

Incident Numbers assigned to the site due to releases from USTs: 20091397

Please list all tanks that have ever been located at the site and tanks that are presently located at the site.

Product Stored in UST	Size (gallons)	Did UST have a release?	Incident No.	Type of Release Tank Leak / Overfill / Piping Leak
Gasoline	10,000	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	20091397	Tank Leak
Gasoline	10,000	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	20091397	Tank Leak
Gasoline	8,000	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	n/a	
Gasoline	4,000	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	n/a	
		Yes <input type="checkbox"/> No <input type="checkbox"/>		
		Yes <input type="checkbox"/> No <input type="checkbox"/>		
		Yes <input type="checkbox"/> No <input type="checkbox"/>		
		Yes <input type="checkbox"/> No <input type="checkbox"/>		

Add More Rows

Undo Last Add

Budget Summary

Choose the applicable regulation: 734 732

734	Free Product	Stage 1 Site Investigation	Stage 2 Site Investigation	Stage 3 Site Investigation	Corrective Action
				Proposed	
Drilling and Monitoring Well Costs Form	\$	\$	\$	\$ 1,429.23	\$
Analytical Costs Form	\$	\$	\$	\$ 512.11	\$
Remediation and Disposal Costs Form	\$	\$	\$	\$	\$
UST Removal and Abandonment Costs Form	\$	\$	\$	\$	\$
Paving, Demolition, and Well Abandonment Costs Form	\$	\$	\$	\$	\$
Consulting Personnel Costs Form	\$	\$	\$	\$ 14,618.75	\$
Consultant's Materials Costs Form	\$	\$	\$	\$ 567.70	\$
Handling Charges Form	Handling charges will be determined at the time a billing package is submitted to the Illinois EPA. The amount of allowable handling charges will be determined in accordance with the Handling Charges Form.				
Total	\$	\$	\$	\$ 17,127.79	\$

Drilling and Monitoring Well Costs Form

1. Drilling

Number of Borings to Be Drilled	Type HSA/PUSH/ Injection	Depth (feet) of Each Boring	Total Feet Drilled	Reason for Drilling
2	PUSH	10.00	20.00	Stage 2 Soil Plume Delineation

Subpart H minimum payment amount applies.

	Total Feet	Rate per Foot (\$)	Total Cost (\$)
Total Feet via HSA:		27.39	
Total Feet via PUSH:	20.00	21.44	428.80
Total Feet for Injection via PUSH:		17.87	
Total Drilling Costs:			1,429.23

2. Monitoring / Recovery Wells

Number of Wells	Type of Well HSA / PUSH / 4" or 6" Recovery / 8" Recovery	Diameter of Well (inches)	Depth of Well (feet)	Total Feet of Wells to Be Installed (\$)

Well Installation	Total Feet	Rate per Foot (\$)	Total Cost (\$)
Total Feet via HSA:		18.72	
Total Feet via PUSH:		14.18	
Total Feet of 4" or 6" Recovery:		28.36	
Total Feet of 8" or Greater Recovery:		46.52	
Total Well Costs:			

Total Drilling and Monitoring Well Costs:	\$1,429.23
--	-------------------

Analytical Costs Form

Laboratory Analysis	Number of Samples	Cost (\$) per Analysis	Total per Parameter
Chemical Analysis			
BETX Soil with MTBE EPA 8260		X	=
BETX Water with MTBE EPA 8260		X	=
COD (Chemical Oxygen Demand)		X	=
Corrosivity		X	=
Flash Point or Ignitability Analysis EPA 1010		X	=
Fraction Organic Carbon Content (f _{OC}) ASTM-D 2974-00		X	=
Fat, Oil, & Grease (FOG)		X	=
LUST Pollutants Soil - analysis must include volatile, base/neutral, polynuclear aromatics and metals list in Section 732, Appendix B and 734. Appendix B		X	=
Dissolved Oxygen (DO)		X	=
Paint Filter (Free Liquids)		X	=
PCB / Pesticides (combination)		X	=
PCBs		X	=
Pesticides		X	=
pH		X	=
Phenol		X	=
Polynuclear Aromatics PNA, or PAH SOIL EPA 8270		X	=
Polynuclear Aromatics PNA, or PAH WATER EPA 8270		X	=
Reactivity		X	=
SVOC - Soil (Semi-Volatile Organic Compounds)		X	=
SVOC - Water (Semi-Volatile Organic Compounds)		X	=
TKN (Total Kjeldahl) "nitrogen"		X	=
TPH (Total Petroleum Hydrocarbons)		X	=
VOC (Volatile Organic Compounds) - Soil (Non-Aqueous)		X	=
VOC (Volatile Organic Compounds) - Water		X	=
		X	=
		X	=
		X	=
		X	=
		X	=
Geo-Technical Analysis			
Soil Bulk Density (ρ _b) ASTM D2937-94		X	=
Ex-situ Hydraulic Conductivity / Permeability		X	=
Moisture Content (w) ASTM D2216-92 / D4643-93		X	=
Porosity		X	=
Rock Hydraulic Conductivity Ex-situ		X	=
Sieve / Particle Size Analysis ASTM D422-63 / D1140-54		X	=
Soil Classification ASTM D2488-90 / D2487-90		X	=
Soil Particle Density (ρ _s) ASTM D854-92		X	=
Specific Gravity		X	=
		X	=
		X	=

Analytical Costs Form

Metals Analysis					
Soil preparation fee for Metals TCLP Soil (one fee per soil sample)	4	X	94.09	=	\$376.36
Soil preparation fee for Metals Total Soil (one fee per soil sample)		X		=	
Water preparation fee for Metals Water (one fee per water sample)		X		=	
Arsenic TCLP Soil		X		=	
Arsenic Total Soil		X		=	
Arsenic Water		X		=	
Barium TCLP Soil		X		=	
Barium Total Soil		X		=	
Barium Water		X		=	
Cadmium TCLP Soil		X		=	
Cadmium Total Soil		X		=	
Cadmium Water		X		=	
Chromium TCLP Soil		X		=	
Chromium Total Soil		X		=	
Chromium Water		X		=	
Cyanide TCLP Soil		X		=	
Cyanide Total Soil		X		=	
Cyanide Water		X		=	
Iron TCLP Soil		X		=	
Iron Total Soil		X		=	
Iron Water		X		=	
Lead TCLP Soil	4	X	19.05	=	\$76.20
Lead Total Soil		X		=	
Lead Water		X		=	
Mercury TCLP Soil		X		=	
Mercury Total Soil		X		=	
Mercury Water		X		=	
Selenium TCLP Soil		X		=	
Selenium Total Soil		X		=	
Selenium Water		X		=	
Silver TCLP Soil		X		=	
Silver Total Soil		X		=	
Silver Water		X		=	
Metals TCLP Soil (a combination of all metals) RCRA		X		=	
Metals Total Soil (a combination of all metals) RCRA		X		=	
Metals Water (a combination of all metals) RCRA		X		=	
		X		=	
		X		=	
		X		=	
		X		=	
Other					
EnCore® Sampler, purge-and-trap sampler, or equivalent sampling device		X		=	
Sample Shipping per sampling event ¹	1	X	59.55	=	\$59.55

¹A sampling event, at a minimum, is all samples (soil and groundwater) collected in a calendar day.

Total Analytical Costs: \$ 512.11

Consulting Personnel Costs Form

Employee Name	Personnel Title	Hours	Rate* (\$)	Total Cost
Remediation Category	Task			
	Senior Project Manager	4.00	119.11	\$476.44
Stage 3-Plan	Stage 3 Plan / Oversight/ Coordination / Technical Compliance			
	Senior Prof. Engineer	3.00	154.84	\$464.52
Stage 3-Plan	Stage 3 Report Certification			
	Professional Geologist	24.00	109.57	\$2,629.68
Stage 3-Plan	Stage 3 Plan Development/Design			
	Engineer III	8.00	119.11	\$952.88
Stage 3-Plan	Stage 3 Plan Sampling Plan			
	Draftperson/CAD III	8.00	59.55	\$476.40
Stage 3-Plan	Drafting of maps for report			
	Senior Admin. Assistant	2.00	53.60	\$107.20
Stage 3-Plan	Stage 3 report compilation, assembly and distribution			
	Senior Project Manager	6.00	119.11	\$714.66
Stage 3-Pay	Stage 3 Reimbursement Coordination / Technical Oversight			
	Senior Acct. Technician	8.00	65.50	\$524.00
Stage 3-Pay	Stage 3 Reimbursement			

Employee Name	Personnel Title	Hours	Rate* (\$)	Total Cost
Remediation Category	Task			
	Senior Project Manager	6.00	119.11	\$714.66
Stage 3-Budget	Stage 3 Budget / Oversight/ Coordination / Technical Compliance			
	Senior Prof. Engineer	3.00	154.84	\$464.52
Stage 3-Budget	Stage 3 Budget Certification			
	Engineer III	8.00	119.11	\$952.88
Stage 3-Budget	Stage 3 Budget Calculations/Input			
	Engineer I	16.00	89.32	\$1,429.12
Stage 3-Budget	Stage 3 Budget			
	Senior Admin. Assistant	2.00	53.60	\$107.20
Stage 3-Budget	Stage 3 Budget assembly and distribution			
	Senior Project Manager	4.00	119.11	\$476.44
Stage 3-Field	Site Investigation Coordination/Technical Compliance			

Employee Name	Personnel Title	Hours	Rate* (\$)	Total Cost
Remediation Category	Task			
	Senior Prof. Engineer	2.00	154.84	\$309.68
Stage 3-Field	Project Arrangements/Oversight for Site Investigation			
	Geologist III	10.00	104.81	\$1,048.10
Stage 3-Field	On-site Drilling/Sampling Oversight			
	Engineer III	10.00	119.11	\$1,191.10
Stage 3-Field	On-site Drilling and Sampling			
	Senior Admin. Assistant	4.00	53.60	\$214.40
Stage 3-Field	Office Prep., Scheduling, Arrangements for investigation			
	Senior Project Manager	3.00	119.11	\$357.33
Stage 3-Field	Analytical/ BL/ Map review			
	Draftperson/CAD IV	4.00	65.50	\$262.00
Stage 3-Field	Drafting/ Locations/Elevation/Contamination Levels			
	Geologist III	2.00	104.81	\$209.62
Stage 3-Field	Analytical Tabulation/Input			
	Engineer I	6.00	89.32	\$535.92
Stage 3-Field	Borelogs			

*Refer to the applicable Maximum Payment Amounts document.

Total of Consulting Personnel Costs	\$14,618.75
--	--------------------

Consultant's Materials Costs Form

Materials, Equipment, or Field Purchase	Time or Amount Used	Rate (\$)	Unit	Total Cost
Remediation Category	Description/Justification			
PID Rental	1.00	129.00	/day	\$129.00
Stage 3-Field	To detect VOC levels in soil samples			
Postage	2.00	6.00	/each	\$12.00
Stage 3-Plan	Stage 3 Forms/ Report			
Copies	100.00	.15	/each	\$15.00
Stage 3-Budget	Copies of Stage 3 budget/drafts			
Measuring Wheel	1.00	18.00	/day	\$18.00
Stage 3-Field	Mapping SB locations			
Mileage	415.00	.58	/mile	\$240.70
Stage 3-Field	1 round trip			
Disposable Gloves	1.00	13.00	/box	\$13.00
Stage 3-Field	Disposable latex gloves for soil and groundwater sampling			
Copies	800.00	.15	/each	\$120.00
Stage 3-Pay	Copies of Stage 3 Reimbursement/ Supporting Documentation			
Postage				
Stage 3-Pay	Stage 3 Forms/Reimbursement Distribution			
Copies	200.00	.10	/each	\$20.00
Stage 3-Plan	Copies Stage 3 Plan/ Drafts			

Total of Consultant Materials Costs	\$567.70
--	-----------------

Attachment D

BORELOGS

**AMENDED STAGE 2 / 3 SITE
INVESTIGATION PLAN AND BUDGET
HUCK'S #131 / MAIERS GROCERY
CROSSVILLE, ILLINOIS**



INCIDENT #: 2009-1397	BOREHOLE NUMBER: L-1
CLIENT NAME: Maier's Grocery	BORING LOCATION: 5'N of MW-6
CLIENT ADDRESS: Illinois Route 1 and 14 Crossville, IL	RIG TYPE: Truck mounted drill rig
DATE/TIME STARTED: 8/15/13	DRILLING/SAMPLE METHOD: continuous sampling/hollow stem auger
DATE/TIME FINISHED: 8/15/13	BACKFILL: Well

DEPTH (FEET)	SOIL AND ROCK DESCRIPTION	USCS CLASS	Sample Recovery	PID (ppm)	Sample Type	SAMPLE NUMBER	REMARKS: (Odor, Color, Moisture, Penetrometer, etc.)
0	Concrete						
1	Gravel sub-base						
2	Dark brown clayey silt		90%	0	Grab	L-1 2.5'	TCLP Lead
3							
4							
5	light brown						
6							
7			100%	0	Grab	L-1 7.5'	TCLP Lead
8							
9							
10	EOB 10'						
11							
12							
13							
14							
15							
16							

Stratification lines are approximate, in-situ transition between soil types may be gradual.

NOTES:

Manway / Surface Elevation:

Groundwater Depth While Drilling:	Auger Depth: 10'	Driller: AEDC/CW M
Groundwater Depth After Drilling:	Rotary Depth:	Geologist: MDR/CTB



INCIDENT #: 2009-1397	BOREHOLE NUMBER: L-2
NAME: Maier's Grocery	BORING LOCATION: 15'E of MW-6
SITE ADDRESS: Illinois Route 1 and 14 Crossville, IL	RIG TYPE: Truck mounted drill rig
DATE/TIME STARTED: 8/15/13	DRILLING/SAMPLE METHOD: continuous sampling/hollow stem auger
DATE/TIME FINISHED: 8/15/13	BACKFILL: Well

DEPTH (FEET)	SOIL AND ROCK DESCRIPTION	USCS CLASS	Sample Recovery	PID (ppm)	Sample Type	SAMPLE NUMBER	REMARKS: (Odor, Color, Moisture, Penetrometer, etc.)
0	Concrete						
1	Gravel sub-base						
2	Dark brown clayey silt		90%	0	Grab	L-2 2.5'	TCLP Lead
3							
4							
5	light brown						
6							
7			95%	0	Grab	L-2 7.5'	TCLP Lead
8							
9							
10	EOB 10'						
11							
12							
13							
14							
15							
16							

Stratification lines are approximate, in-situ transition between soil types may be gradual.

NOTES:

Manway / Surface Elevation:

Groundwater Depth While Drilling:	Auger Depth: 10'	Driller: AEDC/CW M
Groundwater Depth After Drilling:	Rotary Depth:	Geologist: MDR/CTB



LIST INCIDENT #: 2009-1397	BOREHOLE NUMBER: L-3
CLIENT NAME: Maier's Grocery	BORING LOCATION: 10'S and 45'W of MW-6
SITE ADDRESS: Illinois Route 1 and 14 Crossville, IL	RIG TYPE: Truck mounted drill rig
DATE/TIME STARTED: 8/15/13	DRILLING/SAMPLE METHOD: continuous sampling/hollow stem auger
DATE/TIME FINISHED: 8/15/13	BACKFILL: Well

DEPTH (FEET)	SOIL AND ROCK DESCRIPTION	USCS CLASS	Sample Recovery	PID (ppm)	Sample Type	SAMPLE NUMBER	REMARKS: (Odor, Color, Moisture, Penetrometer, etc.)
0	Concrete						
1	Gravel sub-base						
2	Dark brown clayey silt		95%	0	Grab	L-3 2.5'	TCLP Lead
3							
4							
5			light brown				
6							
7			100%	0	Grab	L-3 7.5'	TCLP Lead
8							
9							
10	EOB 10'						
11							
12							
13							
14							
15							
16							

Stratification lines are approximate. in-situ transition between soil types may be gradual.

NOTES:
Manway / Surface Elevation:

Groundwater Depth While Drilling:	Auger Depth: 10'	Driller: AEDC/CW M
Groundwater Depth After Drilling:	Rotary Depth:	Geologist: MDR/CTB



LIST INCIDENT #: 2009-1397	BOREHOLE NUMBER: TACO
CLIENT NAME: Maier's Grocery	BORING LOCATION: MW-10
CLIENT ADDRESS: Illinois Route 1 and 14 Crossville, IL	RIG TYPE: Truck mounted drill rig
DATE/TIME STARTED: 8/15/13	DRILLING/SAMPLE METHOD: continuous sampling/hollow stem auger
DATE/TIME FINISHED: 8/15/13	BACKFILL: Well

DEPTH (FEET)	SOIL AND ROCK DESCRIPTION	USCS CLASS	Sample Recovery	PID (ppm)	Sample Type	SAMPLE NUMBER	REMARKS: (Odor, Color, Moisture, Penetrometer, etc.)
0	Concrete						
1	Gravel sub-base						
2	Dark brown clayey silt		90%	0			
3							
4	light brown						
5							
6							
7			100%	0	Grab	TACO	TACO Parameters
8							
9							
10	EOB 10'						
11							
12							
13							
14							
15							
16							

Stratification lines are approximate, in-situ transition between soil types may be gradual.

NOTES:

Manway / Surface Elevation:

Groundwater Depth While Drilling:	Auger Depth: 10'	Driller: AEDC/CW M
Groundwater Depth After Drilling:	Rotary Depth:	Geologist: MDR/CTB



ILLINOIS ENVIRONMENTAL PROTECTION AGENCY

1021 NORTH GRAND AVENUE EAST, P.O. BOX 19276, SPRINGFIELD, ILLINOIS 62794-9276 • (217) 782-2829
PAT QUINN, GOVERNOR LISA BONNETT, DIRECTOR

217/524-3300

CERTIFIED MAIL

OCT 28 2013

7012 0470 0001 2974 4853

Martin & Bailey
Attention: Mark Bailey
1311A West Main Street
Carmi, Illinois 62821

Re: LPC #1930155021 -- White County
Crossville/ Maier's Grocery
109 South State Street
Leaking UST Incident No. 20091397
Leaking UST Technical File

IEPA-DIVISION OF RECORDS MANAGEMENT
RELEASABLE

NOV 05 2013

REVIEWER JKS

Dear Mr. Bailey:

The Illinois Environmental Protection Agency (Illinois EPA) has reviewed the amended Stage 2 and 3 Site Investigation Plan (plan) submitted for the above-referenced incident. This plan, dated October 1, 2013, was received by the Illinois EPA on October 1, 2013. Citations in this letter are from the Environmental Protection Act (Act), as amended by Public Act 92-0554 on June 24, 2002, and Public Act 96-0908 on June 8, 2010, and 35 Illinois Administrative Code (35 Ill. Adm. Code).

The Illinois EPA has determined that the activities proposed in this plan are appropriate to demonstrate compliance with Title XVI of the Act and 35 Ill. Adm. Code 734 (Sections 57.7(a)(1) and 57.7(c) of the Act and 35 Ill. Adm. Code 734.505(b) and 734.510(a)). Therefore, the plan is approved.

In addition, the proposed budget for Stage(s) 2 and 3 is approved for amounts determined in accordance with Subpart H, Appendix D, and Appendix E of 35 Ill. Adm. Code 734 (35 Ill. Adm. Code 734.310(b)). Costs must be incurred in accordance with the approved plan. Please be advised that costs associated with materials, activities, and services must be reasonable, must be consistent with the associated technical plan, must be incurred in the performance of corrective action activities, must not be used for corrective action activities in excess of those necessary to meet the minimum requirements of the Act and regulations, and must not exceed the maximum payment amounts set forth in Subpart H, Appendix D, and Appendix E of Part 734 (Section 57.7(c) of the Act and 35 Ill. Adm. Code 734.510(b)).

NOTE: Pursuant to Section 57.8(a)(5) of the Act, if payment from the Fund will be sought for any additional costs that may be incurred as a result of the Illinois EPA's modifications, an amended budget must be submitted. Amended plans and/or budgets must be submitted and approved prior to the issuance of a No Further Remediation (NFR) Letter. Costs associated with a plan or budget that have not been approved prior to the issuance of an NFR Letter will not be paid from the Fund.

4302 N. Main St., Rockford, IL 61103 (815)987-7760
595 S. State, Elgin, IL 60123 (847)608-3131
2125 S. First St., Champaign, IL 61820 (217)278-5800
2009 Mall St., Collinsville, IL 62234 (618)346-5120

9511 Harrison St., Des Plaines, IL 60016 (847)294-4000
5407 N. University St., Arbor 113, Peoria, IL 61614 (309)693-5462
2309 W. Main St., Suite 116, Marion, IL 62959 (618)993-7200
100 W. Randolph, Suite 10-300, Chicago, IL 60601 (312)814-6026

Page 2

Further, pursuant to 35 Ill. Adm. Code 734.145, it is required that the Illinois EPA be notified of field activities prior to the date the field activities take place. This notice must include a description of the field activities to be conducted; the name of the person conducting the activities; and the date, time, and place the activities will be conducted. This notification of field activities may be done by telephone, facsimile, or electronic mail—and must be provided at least three (3) working days prior to the scheduled field activities. Besides providing at least three days' notice to Leaking UST Section staff in Springfield, notification must be provided to Rob Mileur either by telephone at (618) 993-7223 or by e-mail at Robert.Mileur@illinois.gov.

Pursuant to Sections 57.7(a)(5) and 57.12(c) and (d) of the Act and 35 Ill. Adm. Code 734.100 and 734.125, the Illinois EPA requires submittal of a Stage 3 Site Investigation Plan, and budget if applicable, or Site Investigation Completion Report within 30 days after completing the site investigation to:

Illinois Environmental Protection Agency
Bureau of Land - #24
Leaking Underground Storage Tank Section
1021 North Grand Avenue East
Post Office Box 19276
Springfield, IL 62794-9276

Please submit all correspondence in duplicate and include the Re: block shown at the beginning of this letter.

If you have any questions or need further assistance, please contact Donna Wallace at (217) 524-1283.

Sincerely,



Thomas A. Henninger
Unit Manager
Leaking Underground Storage Tank Section
Division of Remediation Management
Bureau of Land

TAH:DW:dw\

c: CWM Company
BOL File

000543

FILE COPY

CW²M Company

Environmental Consulting Services

701 W. South Grand Avenue
Springfield, IL 62704

Phone: (217) 522-8001
Fax: (217) 522-8009

June 23, 2014

Ms. Donna Wallace, Project Manager
LUST Section, Bureau of Land
Illinois Environmental Protection Agency
1021 North Grand Avenue East
Springfield, Illinois 62794-9276

1930155021 – White County
Maier's Grocery
Incident # 20091397
Leaking UST Technical File

EPA-DIVISION OF RECORDS MANAGEMENT
RELEASABLE

JUL 23 2014

RE: LPC #1930155021-White County
Huck's #131 / Maier's Grocery
109 South State Street, Crossville, Illinois
Incident Numbers: 2009-1397
LUST Technical Reports—Site Investigation Completion Report

REVIEWER RDH

Dear Ms. Wallace:

On behalf of Mr. Mark Bayley, owner of Huck's #131 – Maier's Grocery in Crossville, Illinois, we are submitting the attached Site Investigation Completion Report (SICR) for the above referenced site. A summary of costs for Stage 2/3 Site Investigations has been included. Costs for each round of drilling and sampling during the three Stage 2/3 Investigation Plans have been separated by each event on the Drilling and Monitoring Well Costs Form and the Analytical Cost Form. The Personnel Costs Form has been separated by the work incurred by CWM written plans and the work incurred by Applied Environmental Services written plans. The Material Costs Form and the Remediation and Disposal Costs Form have the total of associated costs from the entire Stage 2/3 Investigation.

If you have any questions or require additional information, please contact Mr. Vince Smith or me at (217) 522-8001.

Sincerely,



Carol L. Rowe, P.G.
Senior Environmental Geologist

xc: Mr. Mark Bayley, *Martin & Bayley, Inc.*
Mr. William T. Sinnott, *CW²M Company, Inc.*

RECEIVED

JUN 23 2014

IEPA/BOL

I:/Maier's Grocery/SICR/SICR cl.doc

701 W. South Grand Avenue
Springfield, IL 62704
(217) 522-8001

400 West Jackson, Suite C
Marion, IL 62959
(618) 997-2238

SITE INVESTIGATION COMPLETION REPORT

Huck's #131 / Maier's Grocery

**Crossville, Illinois
LPC #1930155021 — White County
Incident Number 2009-1397**

Submitted to:

**Illinois Environmental Protection Agency
Leaking Underground Storage Tank Section, Bureau of Land
1021 North Grand Avenue East
Springfield, Illinois**

RECEIVED

JUN 23 2014

IEPA/BOL

Prepared By:

CW³M COMPANY, INC.

701 West South Grand Ave.
Springfield, Illinois
(217) 522-8001

400 West Jackson St., Suite C
Marion, Illinois
(618) 997-2238

June 2014

CONTENTS

APPENDICES	ii
TABLES	ii
ACRONYMS AND ABBREVIATIONS	iii
1. SITE HISTORY/EXECUTIVE SUMMARY	1
1.1 GENERAL.....	1
1.2 SITE LOCATION	1
1.3 UNDERGROUND STORAGE TANK INFORMATION.....	2
1.4 EARLY ACTION SUMMARY.....	2
2. SITE CHARACTERIZATION	4
2.1 NATURE AND QUANTITY OF RELEASE	4
2.2 CURRENT AND PROJECTED POST-REMEDATION USES	4
2.3 WATER QUALITY.....	4
2.4 WELL DATA	4
2.5 PHYSICAL SETTING	5
3. SITE INVESTIGATION.....	6
3.1 DRILLING METHOD	6
3.2 SOIL SAMPLING PROTOCOL.....	6
3.3 DESCRIPTION OF ACTIVITIES COMPLETED	6
3.3.1 First Round of Sampling.....	6
3.3.2 Second Round of Sampling.....	7
3.3.3 Third Round of Sampling.....	7
3.3.4 Fourth Round of Sampling	8
3.3.5 Hydraulic Conductivity Testing	8
4. DEVELOPMENT OF REMEDIATION OBJECTIVES	9
4.1 GROUNDWATER REMEDIATION OBJECTIVES	9
4.2 SOIL REMEDIATION OBJECTIVES	9
5. ANALYTICAL OBJECTIVES AND RESULTS	10
5.1 SOIL ANALYTICAL RESULTS	10
5.2 GROUNDWATER ANALYTICAL RESULTS	10
5.3 GROUNDWATER FLOW DIRECTION.....	10
6. SITE MAPS.....	10
7. CONCLUSIONS AND RECOMMENDATIONS.....	11
7.1 CONCLUSIONS.....	11
7.2 RECOMMENDATIONS.....	11
8. REFERENCES	12

APPENDICES

APPENDIX A	Site Investigation Completion Report Form
APPENDIX B	Site Maps and Illustrations
APPENDIX C	Illinois Office of the State Fire Marshal Eligibility Determination
APPENDIX D	Boring Logs and Well Completion Reports
APPENDIX E	Analytical Results
APPENDIX F	Stage 2/3 Actual Costs

TABLES

Table 1-1. Underground Storage Tank Summary	2
Table 2-1 Water Supply Well Information.....	5
Table 4-1 Groundwater Remediation Objectives	9
Table 4-2. Soil Remediation Objectives	9

ACRONYMS AND ABBREVIATIONS

AET	Applied Environmental Technologies, Inc.
BETX	benzene, ethylbenzene, toluene and total xylenes
CAP	Corrective Action Plan
CUOs	Clean-Up Objectives
CW ³ M	CW ³ M Company, Inc.
Ill. Adm. Code	Illinois Administrative Code
IEMA	Illinois Emergency Management Agency
IEPA	Illinois Environmental Protection Agency
ISGS	Illinois State Geological Survey
ISWS	Illinois State Water Survey
LUST	Leaking Underground Storage Tank
mg/kg	milligrams per kilogram (parts per million)
mg/L	milligrams per liter
ml	Milliliters
MTBE	Methyl tert-butyl ether
MW	Monitoring Well
PID	Photoionization detector
PVC	polyvinyl chloride
OSFM	Office of the State Fire Marshal
ROW	Right of Way
SICR	Site Investigation Completion Report
SIP	Site Investigation Plan
TACO	Tiered Approach to Corrective Action Objectives
TCLP	Toxicity Characteristic Leaching Procedure
USTs	Underground Storage Tank
WCRs	Well Completion Reports

1. SITE HISTORY/EXECUTIVE SUMMARY

1.1 GENERAL

Mr. Mark Bayley, representing Martin and Bayley, Inc. / Maier's Grocery, the owner of the underground storage tanks (USTs) at Huck's Convenience Store #131, reported a release to the Illinois Emergency Management Agency (IEMA) following an environmental assessment. Incident Number 2009-1397 was assigned on December 16, 2009. Martin and Bayley, Inc. has now requested that CW³M Company, Inc. (CW³M) proceed with site investigation completion report requirements in accordance with 35 Illinois Administrative Code (Ill Adm. Code) § 734.

The 20-Day Certification was submitted to the Illinois Environmental Protection Agency (IEPA) on December 30, 2009 (AET, 2009). The 45-Day Report was submitted on January 26, 2010 (AET, 2010a) and was approved by the Agency on February 4, 2010 (IEPA, 2010a). Because Applied Environmental Technologies, Inc. (AET) conducted a Stage 2 and Stage 3 Site Investigation simultaneously, both reports were submitted on September 17, 2010 (AET, 2010b) and approved by the Agency on October 20, 2010 (IEPA, 2010b). CW³M Company, Inc. submitted an Amended Stage 2/3 Site Investigation Plan (SIP) and Budget to the Agency on July 19, 2013 (CW³M, 2013a) and it was approved with modifications to the budget on August 8, 2013 (IEPA, 2013a). Another Amended Stage 2/3 SIP and Budget was submitted on October 1, 2013 (CW³M, 2013b) and was approved by the Agency on October 23, 2013 (IEPA, 2013b).

This Site Investigation Completion Report (SICR) has been prepared by CW³M in accordance with the requirements of 35 Ill. Adm. Code § 734. The Site Investigation Completion Report form, which has been prescribed and provided by the IEPA, has been included as Appendix A. The Stage 2/3 actual costs and certification are included as Appendix F. This report is certified by an Illinois Licensed Professional Engineer. The geological investigation and site investigation was performed under the direction of an Illinois Licensed Professional Geologist and completed in accordance with the Professional Geologist Licensing Act and its Rules for Administration.

1.2 SITE LOCATION

The site, known as Huck's #131 / Maier's Grocery is located at 109 South State Street, Crossville, White County, Illinois 62821. The site is located in the SW $\frac{1}{4}$ of the NE $\frac{1}{4}$ of the SE $\frac{1}{4}$ of Section 23, Township 4 South of the Centralia Baseline and Range 10 East of the Third Principal Meridian.

1.3 UNDERGROUND STORAGE TANK INFORMATION

Applied Environmental Technologies, Inc. personnel were at the site on December 16, 2009 to conduct early action activities. Two (2) ten thousand (10,000) gallon USTs, one (1) eight thousand (8,000) gallon UST, and one (1) four thousand (4,000) gallon UST were present at the facility; all containing gasoline. Under permit No. 00007-2010REM issued by Office of the Illinois State Fire Marshal (OSFM) Tank Specialist Daniel Starks, the two (2) ten thousand (10,000) gallon USTs were removed on January 27, 2010. A narrative of the tank removals and other early action activities can be found in the 45-Day Report (AET, 2010a).

Table 1-1. Underground Storage Tank Summary

Tank Number	Tank Volume (gallons)	Tank Contents	Incident Number	Release Information	Current Status
1	10,000	Gasoline	2009-1397	Tank Leak	Removed 1/27/2010
2	10,000	Gasoline	2009-1397	Tank Leak	Removed 1/27/2010
3	8,000	Gasoline	none	n/a	Currently in use
6	4,000	Gasoline	none	n/a	Currently in use

1.4 EARLY ACTION SUMMARY

Following IEMA notification of the release, Mr. Mark Bayley requested that AET proceed with reporting requirements and early action activities in accordance with 35 Ill. Adm. Code § 734.

While on site on December 16, 2009 for an environmental assessment, AET personnel observed soil discoloration and odor in a soil boring advanced adjacent to the tank pit which contained the two (2) 10,000 gallon UST's. Permit No. 00007-2010REM was issued by OSFM Tank Specialist Daniel Starks. Starks was on-site to observe the removal of the two (2) 10,000 gallon USTs on January 27, 2010. Following the removal of the tanks, the cause of the release was confirmed to be the result of holes in the USTs.

Approximately 544 tons (362 cubic yards) of contaminated backfill was removed from the former tank pit and taken to Veolia Landfill in Fairfield, Illinois. Applied Environmental Technologies, Inc. then collected nineteen (19) soil samples in early action which were analyzed for benzene, ethylbenzene, toluene, and total xylenes (BETX), methyl-tert-butyl-ether (MTBE), Toxicity Leaching Characteristic Leaching Procedure (TCLP) Lead, and Total Lead. Soil samples were collected from the excavation walls and floor, the supply lines, and beneath the dispensers, as required. Soil analytical results indicated that the most stringent Tier 1 Clean-up Objectives (CUOs) have been exceeded by benzene, ethylbenzene, MTBE, and lead at various locations around the tank pit area. The soil boring logs and analytical results from early action sampling were included in the 45-Day Report (AET, 2010a).

2. SITE CHARACTERIZATION

2.1 NATURE AND QUANTITY OF RELEASE

On January 27, 2010 OSFM Tank Specialist Daniel Starks was at the site to oversee the tank removal activities conducted and coordinated by Applied Environmental Technologies, Inc. Removal of the tanks at the site confirmed the release and the factors that contributed to the release. The quantity of the release is unknown; however, it was evident to have migrated beyond the backfill materials into the surrounding native soil. Before the tanks were removed, tank leak tests confirmed that an ongoing release was not occurring and no product was present within the tanks.

2.2 CURRENT AND PROJECTED POST-REMEDATION USES

The site is located in a commercial / residential district of Crossville, Illinois. Surrounding the site are private residences as well as small businesses. The site borders Main Street (Route 14) to the north and Illinois Route 1 to the east.

2.3 WATER QUALITY

According to the Illinois Pollution Control Board, three Class III Groundwater contributing areas exist; however, they are located in McHenry County, Monroe County, and St. Clair County. Therefore, CW³M will consider the groundwater at this site to be Class I unless demonstrated otherwise pursuant to 35 Ill. Adm. Code § 620.210. The city of Carmi supplies the site with water.

2.4 WELL DATA

A survey of water supply wells for the purpose of identifying and locating all community water supply wells within 2,500 feet of the UST systems and all potable water supply wells within 200 feet of the UST systems has been conducted. The Illinois State Water Survey (ISWS), the Illinois State Geological Survey (ISGS) and the IEPA Division of Public Water Supplies were contacted via the Source Water Assessment Program online.

The ISGS, ISWS, and IEPA Division of Public Water Supplies were accessed on line on June 19, 2013 (EPA.STATE.IL.US, 2013). The response indicated that four wells were located within 2,500 feet of the site and no wells are within the designated setback zone.

Table 2-1. Water Supply Well Information

Well ID	Type	Depth of Well (feet)	Distance From USTs (feet)	Setback Zone (feet)
04154	ISGS	0	225	200
04155	ISGS	41	225	200
04156	ISGS	41	1,225	200
31680	ISGS	74	1,275	200

2.5 PHYSICAL SETTING

The physical setting including environmental, geologic, hydrogeologic, hydrologic, geographic, and topographic conditions has been described in the Stage 2/3 SIP and Budget Report (CW³M, 2013a). Additionally, this information is supplemented by the boring logs from the Stage 2 and Stage 3 investigations which are included in Appendix D of this report.

3. SITE INVESTIGATION

3.1 DRILLING METHOD

Five-foot continuous samplers were used to advance and characterize each boring. This method was selected to minimize the likelihood of gaps in the sample column. Soil boring logs were prepared for all soil borings.

3.2 SOIL SAMPLING PROTOCOL

All samples were collected utilizing proper sampling protocol. Samplers wore new, disposable, latex gloves for each sampling event. Samples were collected at the center of each 5-foot sample core, unless conditions within the soil units warranted otherwise by odor or visual contamination. Each of the samples from the continuous sampler was screened using a photoionization detector (PID) and was placed in the appropriate laboratory-provided sampling container for laboratory analysis of BETX, MTBE, and TCLP Lead. Proper sampling, decontamination and chain-of-custody procedures were employed. The sample containers were filled, labeled, and kept cool (to 6° C or below) until shipment to the laboratory. Sample descriptions were recorded on the boring log prepared for each boring.

All soil samples were analyzed by an accredited laboratory using test methods identified under 35 Ill. Adm. Code 186.180. As required by the leaking underground storage tank (LUST) Section, a Laboratory Certification for Chemical and Physical Analysis accompanies each of the sample results that have been reported.

3.3 DESCRIPTION OF ACTIVITIES COMPLETED

3.3.1 First Round of Sampling

On June 2, 2010, AET personnel were on site to complete the Stage 1 investigation activities. Five monitoring wells (MWs) with soil samples were advanced as part of the plume delineation activities. Soil samples were collected from each drilling location and were analyzed for BETX, MTBE, and TCLP lead. AET personnel returned to the site on June 30, 2010, to survey and sample MW-1 through MW-5. Analytical results, boring logs, and well completion reports (WCRs) can be found in Site Investigation Plan Stage 2 / 3 (AET, 2010b).

Soil analytical results from Stage 1 investigations indicate that the benzene CUOs for B-2 at 7.5-foot depth and TCLP lead CUOs for B-4 at 10-foot depth were exceeded. Groundwater analytical results for monitoring wells, MW-2, MW-3, and MW-5 exceeded the Class I Groundwater Objectives for benzene. MW-3 also exceeded Class I Groundwater Objectives for MTBE.

3.3.2 Second Round of Sampling

Based on the results from Stage 1, AET proposed and received IEPA approval for a Stage 2 / 3 Site Investigation Plan. The plan called for the installation of seven (7) monitoring wells with soil samples (B-6 through B-12). Martin and Bayley, Inc. then asked CW³M to take over the project. On November 21, 2011 CW³M personnel were on site to complete the Stage 2 / 3 site investigation activities proposed by AET. Six MWs with soil samples were advanced as part of the Stage 2 / 3 site investigation activities. Note that, due to a failure to reach an off-site agreement, sample location B-7 was never taken. Therefore, samples B-8, B-11, and B-12 were collected off site to the south of the tank pit and B-6, B-9, and B-10 were collected on site to the north and east. Soil samples were collected and analyzed for BETX, MTBE, and TCLP lead. CW³M personnel returned to the site on January 26, 2012 to survey and sample groundwater at locations B-6 through B-12. Groundwater samples were analyzed for BETX and MTBE. Soil boring logs and WCRs are included in Appendix D. Analytical results are summarized and included in Appendix E.

Soil analytical results from the Stage 2 / 3 investigations indicate that the CUOs for B-6 were exceeded for TCLP lead. Groundwater analytical results for all locations indicate that groundwater is clean, therefore, the groundwater contamination plume was defined on and off site at that time.

3.3.3 Third Round of Sampling

On August 15, 2013 CW³M personnel were on site in attempt to define the lead contamination plume. Two soil borings were advanced as part of the plume delineation activities. One additional soil boring was collected and analyzed for the Tiered Approach to Corrective Action Objectives (TACO) physical parameters. Soil boring logs are included in Appendix D. Analytical results are summarized and included in Appendix E. Soil analytical results from the investigation indicated lead contamination at soil boring location L-3.

3.3.4 Fourth Round of Sampling

On November 18, 2013 CW³M personnel returned to the site to define the lead contamination plume. A total of two soil borings (L-4 & L-5) were advanced as part of the plume delineation activities. Analytical results indicate that both samples had met Tier 1 CUOs for TCLP lead; therefore, the soil contamination plume has been defined on site. Soil boring logs and WCRs are included in Appendix D. Analytical results are summarized and included in Appendix E.

3.3.5 Hydraulic Conductivity Testing

In accordance with 35 Ill. Adm. Code 734, remediation objectives were determined in accordance with 35 Ill. Adm. Code 742. The site specific physical parameters have been determined, and are calculated below.

Hydraulic Conductivity (K), 1.74×10^{-4} cm/sec
Soil bulk density (ρ_b), 1.398 g/cm³
Soil particle density (ρ_s), 2.523 g/cm³
Moisture content (w), 0.23
Organic carbon content (f_{oc}), 0.00630 g/g

An ex-situ hydraulic conductivity test was performed during site investigation activities. The test was performed by lowering a "slug" constructed of polyvinyl chloride (PVC) into a monitoring well. When the slug was lowered into the well, the groundwater was displaced by the volume of the slug. As the water within the well equilibrated, groundwater depth changes were recorded in relation to the time interval that had passed since the test was initiated.

The hydraulic conductivity calculations are based on the total well depth, screen length and radius, initial water depth and the water depth change over time. The depth-to-water changes over time were plotted on a semi-logarithmic graph and the curve was evaluated. The slope of the straight-line portion of the curve, along with the slug test data, was used to calculate the hydraulic conductivity.

4. DEVELOPMENT OF REMEDIATION OBJECTIVES

4.1 GROUNDWATER REMEDIATION OBJECTIVES

CW³M will consider the groundwater at this site to be Class I unless demonstrated otherwise pursuant to 35 Ill. Adm. Code § 620.210. According to the Illinois Pollution Control Board, three Class III Groundwater contributing areas exist; however, they are located in McHenry, Monroe and St. Clair Counties in northern and western Illinois.

Groundwater investigation sample results would be compared to the TACO Residential Tier 1 Clean-up Objectives in milligrams per liter (mg/L).

Table 4-1. Groundwater Remediation Objectives

Parameter	TACO Residential Tier 1 Clean-up Objective (mg/L)
Benzene	0.005
Ethylbenzene	0.7
Toluene	1.0
Total Xylenes	10.0
MTBE	0.07

4.2 SOIL REMEDIATION OBJECTIVES

Soil analytical results were compared to the TACO Residential Tier 1 Clean-up Objectives in milligrams per kilogram (parts per million) (mg/kg).

Table 4-2. Soil Remediation Objectives

Parameter	TACO Residential Tier 1 Clean-up Objective (mg/kg)
Benzene	0.03
Ethylbenzene	13.0
Toluene	12.0
Total Xylenes	5.6
MTBE	0.32
Lead TCLP	0.0075

5. ANALYTICAL OBJECTIVES AND RESULTS

5.1 SOIL ANALYTICAL RESULTS

Tables comparing the site investigation analytical results to the most stringent Tier 1 Remediation Objectives are included with the analytical results in Appendix E. The soil plume is confined to the site and the alley south of the site, and is defined horizontally and vertically.

5.2 GROUNDWATER ANALYTICAL RESULTS

Tables comparing the site investigation analytical results to the most stringent Tier 1 Remediation Objectives are included with the analytical results in Appendix E. The groundwater plume is defined on-site to the north and west. Due to denial of off-site agreements, the groundwater contamination plume is defined in the southeastern corner of the property and may cross into the right of way (ROW) onto the alley adjacent the property and into the right-of-way Illinois Route 1 and 14.

5.3 GROUNDWATER FLOW DIRECTION

Based upon measurements taken during a visit to the site, the groundwater flow direction is generally toward the south. A map of the groundwater elevations can be found in Appendix B.

6. SITE MAPS

Site maps identifying the UST systems, excavations and sample locations, product and dispenser lines, pumps and pump islands, underground utilities, nearby structures, property boundaries, and any surrounding areas that might have been adversely affected by the release of petroleum from the UST systems are included in Appendix B. All maps are to scale and are prepared in accordance with 35 Ill. Adm. Code 734.440.

7. CONCLUSIONS AND RECOMMENDATIONS

7.1 CONCLUSIONS

Soil analytical results indicate that the Clean-Up Objectives for the site have been exceeded but are contained within the property boundaries and the ROW of the alley south of the site. Contamination is located in the southern portion of the site near the former tank pit. Indicator contaminants have exceeded the objectives of benzene and lead TCLP contaminants. Based on site investigations, the soil plume has been defined.

Groundwater analytical results indicate that the Clean-Up Objectives for the site have been exceeded and are not contained within the property boundary. Contamination is located in the center of the property and the southeastern property line. Due to denial of off-site agreements, the groundwater contamination plume is defined in the southeastern corner of the property and may cross into the ROW onto the alley adjacent the property and Illinois Route 1 and 14. Based on the site investigations, the groundwater plume has been defined.

7.2 RECOMMENDATIONS

The results of the site investigation confirm that the extent of contamination has been defined on site and the ROW of the alley south of the site. On behalf of Mr. Mark Bayley, owner of USTs at the site, CW³M will develop a Corrective Action Plan (CAP) and Budget for submittal to the IEPA based upon the contamination plumes that have been defined in this report.

The CAP will address recently adopted rules on Vapor Intrusion; screening parameters will be evaluated for the potential presence and impact of vapor. If necessary, a Vapor Intrusion Investigation will be proposed.

8. REFERENCES

AET, 2009. Applied Environmental Technologies, Inc., *20-Day Report, Huck's #131 / Maier's Grocery*, Crossville, Illinois, December 30, 2009.

AET, 2010a. Applied Environmental Technologies, Inc., *45-Day Report, Huck's #131 / Maier's Grocery*, Crossville, Illinois, January 26, 2010.

AET, 2010b. Applied Environmental Technologies, Inc., *Site Investigation Plan and Budget Stage 2 / 3, Huck's #131 / Maier's Grocery*, Crossville, Illinois, September 17, 2010.

CW³M, 2013a. CWM Company, Inc., *Amended Stage 2/3 Site Investigation Plan and Budget, Huck's #131/ Maier's Grocery*, Crossville, Illinois, July 19, 2013.

CW³M, 2013b. CWM Company, Inc., *Amended Stage 2/3 Site Investigation Plan and Budget, Huck's #131/ Maier's Grocery*, Crossville, Illinois, October 1, 2013.

EPA.STATE.IL.US, 2013. Source Water Assessment Program, *Water Well Survey Map* www.maps.epa.state.il.us, accessed June 19, 2013.

IEPA, 2010a. Illinois Environmental Protection Agency, *45-Day Report Correspondence, Huck's #131 / Maier's Grocery*, Crossville, Illinois, February 4, 2010.

IEPA, 2010b. Illinois Environmental Protection Agency, *Stage 2 / 3 Site Investigation Plan and Budget Correspondence, Huck's #131 / Maier's Grocery*, Crossville, Illinois, October 20, 2010.

IEPA, 2013a. Illinois Environmental Protection Agency, *Amended Stage 2 / 3 Site Investigation Plan and Budget Correspondence, Huck's #131 / Maier's Grocery*, Crossville, Illinois, August 8, 2013.

IEPA, 2013b. Illinois Environmental Protection Agency, *Amended Stage 2 / 3 Site Investigation Plan and Budget Correspondence, Huck's #131 / Maier's Grocery*, Crossville, Illinois, October 23, 2013.

APPENDIX A

SITE INVESTIGATION COMPLETION REPORT FORM

**SITE INVESTIGATION
COMPLETION REPORT
HUCK'S #131 / MAIER'S GROCERY
CROSSVILLE, ILLINOIS**



Illinois Environmental Protection Agency

Bureau of Land • 1021 N. Grand Avenue E. • P.O. Box 19276 • Springfield • Illinois • 62794-9276

The Agency is authorized to require this information under Section 4 and Title XVI of the Environmental Protection Act (415 ILCS 5/4, 5/57 -- 57.17). Failure to disclose this information may result in a civil penalty of not to exceed \$50,000.00 for the violation and an additional civil penalty of not to exceed \$10,000.00 for each day during which the violation continues (415 ILCS 5/42). Any person who knowingly makes a false material statement or representation, orally or in writing, in any label, manifest, record, report, permit, or license, or other document filed, maintained or used for the purpose of compliance with Title XVI commits a Class 4 felony. Any second or subsequent offense after conviction hereunder is a Class 3 felony (415 ILCS 5/44 and 57.17). This form has been approved by the Forms Management Center.

Leaking Underground Storage Tank Program Site Investigation Completion Report

A. Site Identification

IEMA Incident # (6- or 8- digit): 2009-1397 IEPA LPC # (10- digit): 1930155021

Site Name: Huck's #131 / Maier's Grocery

Site Address (not a P.O. Box): 109 South State Street

City: Crossville County: White Zip Code: 62821

Leaking UST Technical File

B. Site Information

1. Will the owner or operator seek payment from the Underground Storage? Yes No

2. Has a Site Investigation Plan been approved? Yes No

Date(s) of approval letter(s): Oct 20, 2010 Aug 8, 2013 Oct 23, 2013

C. Site Investigation Results

Provide the following:

1. Site history with respect to the release;
2. Site description:
 - a. Area surrounding the site;
 - b. Local geology, hydrogeology, and hydrology;
 - c. Local geography and topography;
 - d. Existing and potential migration pathways and exposure routes; and
 - e. Current and projected post-remediation land use;
3. Site investigation results:
 - a. Map(s) showing locations of all borings and groundwater monitoring wells completed as part of site investigation and the groundwater flow direction;
 - b. Map(s) showing the horizontal extent of soil and groundwater contamination exceeding the most stringent Tier 1 remediation objectives (ROs);
 - c. Map cross-section(s) showing the horizontal and vertical extents of soil and groundwater contamination exceeding the most stringent Tier 1 ROs;
 - d. Soil boring logs and monitoring well construction diagrams for all borings drilled and groundwater monitoring wells installed as part of site investigation;
 - e. Analytical results, chain of custody forms, and laboratory certifications;
 - f. Table comparing analytical results to the most stringent Tier 1 ROs (include sample depth, date collected, and detection limits); and
 - g. Potable water supply well survey;

RECEIVED

JUN 23 2014

IEPA/BOL

4. Conclusion that includes an assessment of the sufficiency of the data;
5. Site map(s) meeting the requirements of 35 Ill. Adm. Code 734.440; and
6. Budget forms of actual costs (documenting actual work performed during the previous stage).

D. Signatures

All plans, budgets, and reports must be signed by the owner or operator and list the owner's or operator's full name, address, and telephone number.

UST Owner or Operator

Name: Martin & Bayley, Inc.
 Contact: Troy Deitz
 Address: 1311A West Main Street
 City: Carmi
 State: Illinois
 Zip Code: 62821
 Phone: _____
 Signature: *Troy Deitz*
 Date: 4/13/2014

Consultant

Company: CWM Company, Inc.
 Contact: Carol Rowe
 Address: 701 W. South Grand Ave
 City: Springfield
 State: Illinois
 Zip Code: 62704
 Phone: 217-522-8001
 Signature: *Carol Rowe*
 Date: 6/23/2014

I certify under penalty of law that all activities that are the subject of this report were conducted under my supervision or were conducted under the supervision of another Licensed Professional Engineer or Licensed Professional Geologist and reviewed by me; that this report and all attachments were prepared under my supervision; that, to the best of my knowledge and belief, the work described in this report has been completed in accordance with the Environmental Protection Act [415 ILCS 5], 35 Ill. Adm. Code 734, and generally accepted standards and practices of my profession; and that the information presented is accurate and complete. I am aware there are significant penalties for submitting false statements or representations to the Illinois EPA, including but not limited to fines, imprisonment, or both as provided in Sections 44 and 57.17 of the Environmental Protection Act [415 ILCS 5/44 and 57.17].

RECEIVED

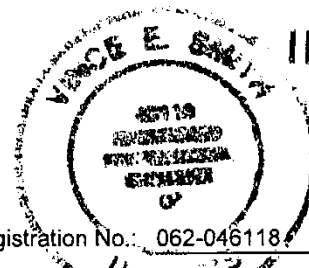
L.P.E. or L.P.G. Seal

JUN 23 2014

Licensed Professional Engineer or Geologist

Name: Vince E. Smith
 Company: CWM Company, Inc.
 Address: 701 W. South Grand Ave
 City: Springfield
 State: Illinois
 Zip Code: 62704
 Phone: 217 5228001

Ill. Registration No.: 062-046118
 License Expiration Date: Nov 30, 2015
 Signature: *Vince E. Smith*
 Date: 6/23/14



IEPA/BOL

APPENDIX B

SITE MAPS AND ILLUSTRATIONS

**SITE INVESTIGATION
COMPLETION REPORT
HUCK'S #131 / MAIER'S GROCERY
CROSSVILLE, ILLINOIS**

INDEX OF DRAWINGS

Drawing Number	Description	File Name
0001A	Site Location Map	SiteMap.doc
0001B	Topographic Map	topomap.doc
0001C	Surrounding Populations Map	Surround.dwg
0002	Site Map	Site.dwg
0003	Early Action Excavation Map	EAexc.dwg
0004	Early Action Sample Map	EAsamp.dwg
0005	Soil Boring Location Map	SBloc.dwg
0006	Monitoring Well Location Map	MWloc.dwg
0007A	Benzene Soil Contamination Plume Map	Bplume.dwg
0007B	Lead Values Map	Lplume.dwg
0007C	Groundwater Contamination Plume Map	GWcont.dwg
0008	Monitoring Well Elevation Map	MWelev.dwg
0008A	Groundwater Elevation Map June 2012	GWelev.dwg
0009	Potentially Impacted Properties Map	Site2.dwg

The appearance of some of the images

following this page is due to

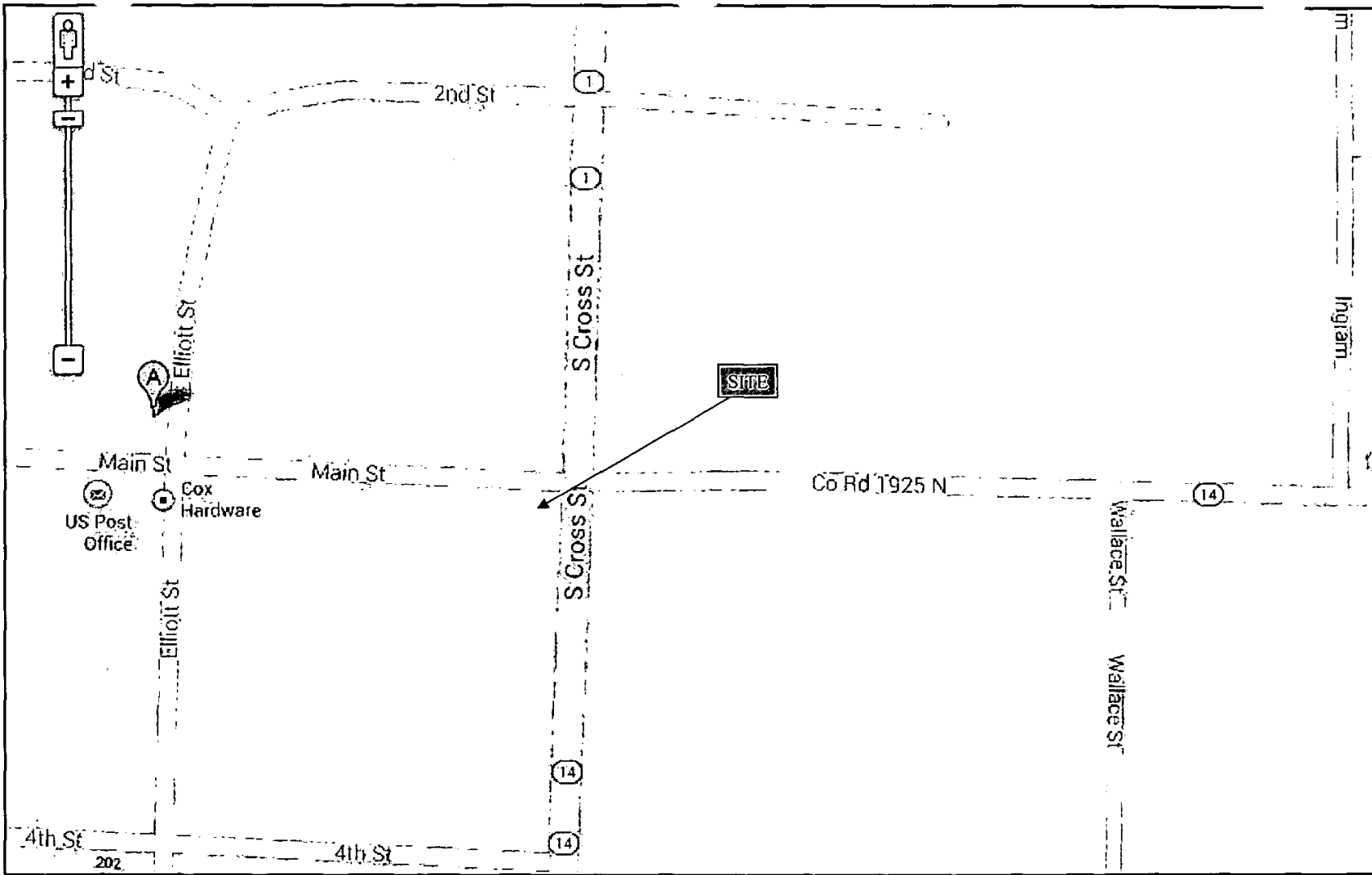
Poor Quality Original Documents

and not the scanning or filming processes.

Com Microfilm Company

(217) 525-5860

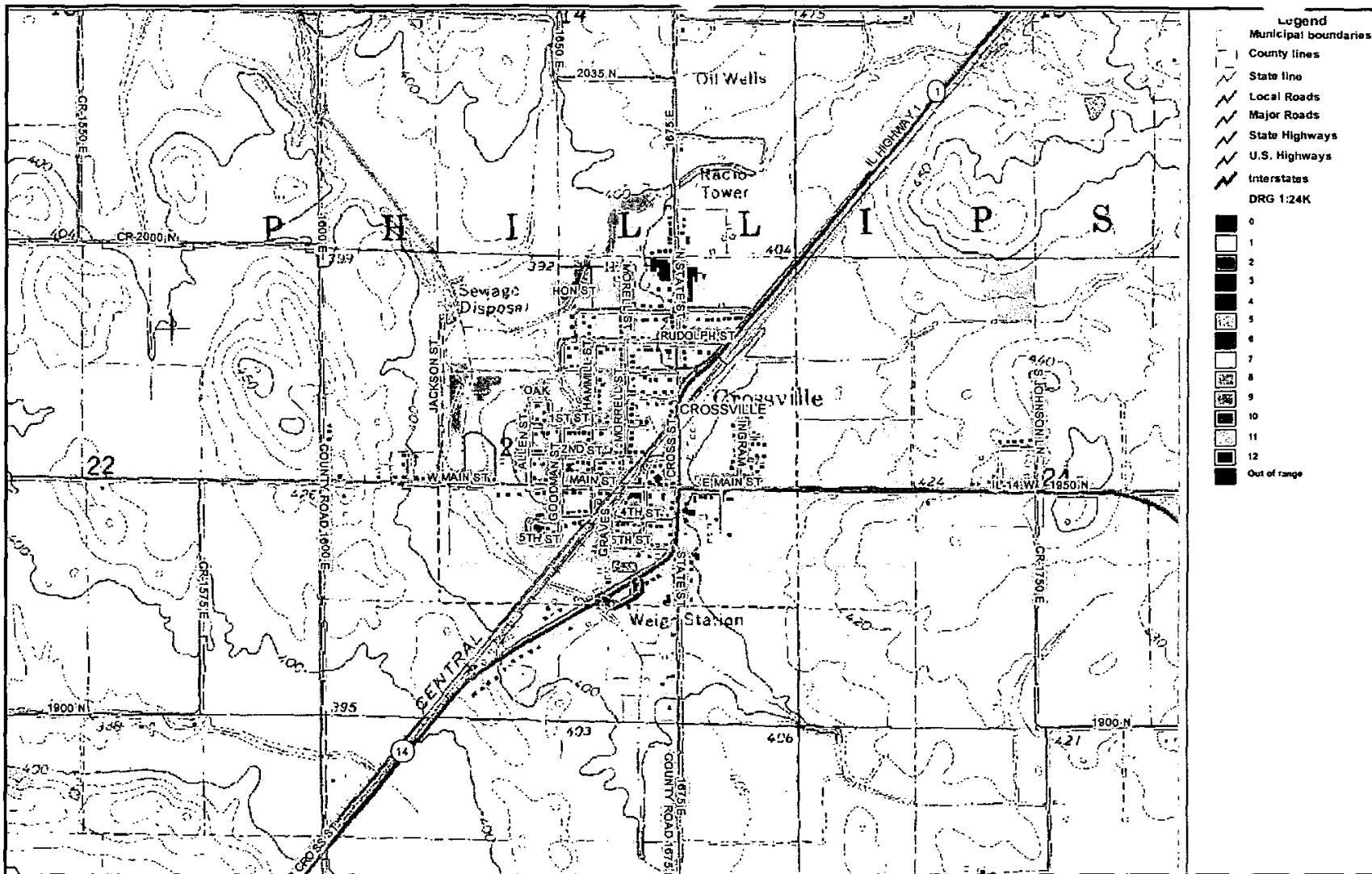
1:tootho\poor\Docs.doc



CW³M Company, Inc.
 701 South Grand Avenue West
 Springfield, IL 62704
 (217)-522-8001

Site Location Map
 109 South State Street
 Crossville, Illinois

Drawn By: BMW
 Reviewed By: CLR
 Drawing 0001A
 SiteMap.doc



CW³M Company, Inc.
 701 South Grand Avenue West
 Springfield, IL 62704
 (217)-522-8001

Topographic Map
 109 South State Street
 Crossville, Illinois

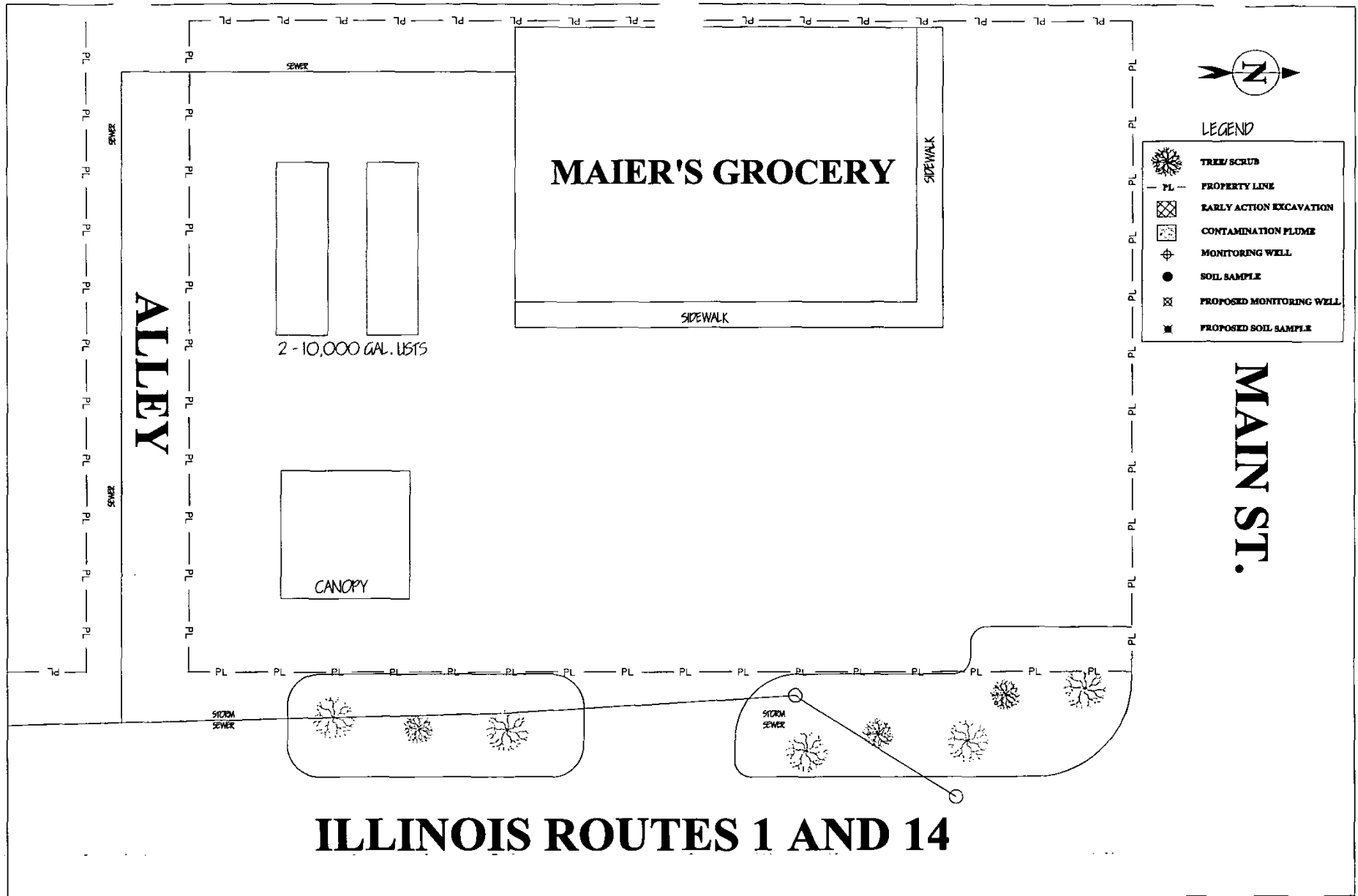
Drawn By: BMW
 Reviewed By: CLR
 Drawing 0001B
 TopoMap.doc



CW³M Company, Inc.
701 South Grand Avenue West
Springfield, IL 62704
(217)-522-8001

Surrounding Populations Map
109 South State Street
Crossville, Illinois

Drawn By: BMW
Reviewed By: CLR
Drawing 0001C
Surround.doc



CWM COMPANY, INC.
 701 W. SOUTH GRAND
 SPRINGFIELD, IL. 62704
 (217) 522-8001

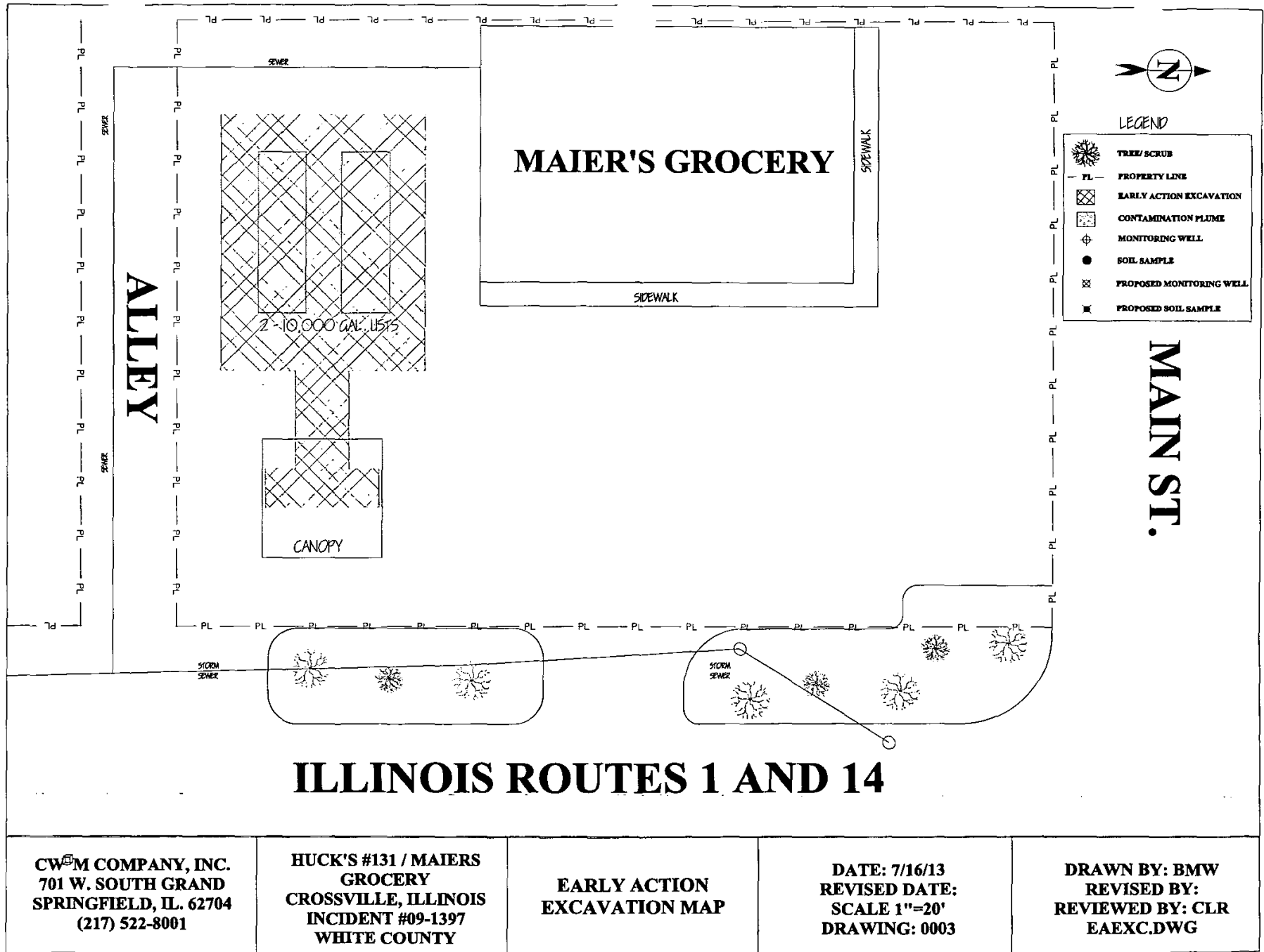
HUCK'S #131 / MAIERS
 GROCERY
 CROSSVILLE, ILLINOIS
 INCIDENT #09-1397
 WHITE COUNTY

SITE MAP









DATE: 7/16/13
 REVISED DATE:
 SCALE 1"=20'
 DRAWING: 0002

DRAWN BY: BMW
 REVISED BY:
 REVIEWED BY: CLR
 SITE.DWG

000570



LEGEND

-  TREE/ SCRUB
-  PL PROPERTY LINE
-  EARLY ACTION EXCAVATION
-  CONTAMINATION PLUME
-  MONITORING WELL
-  SOIL SAMPLE
-  PROPOSED MONITORING WELL
-  PROPOSED SOIL SAMPLE

MAIN ST.

ILLINOIS ROUTES 1 AND 14

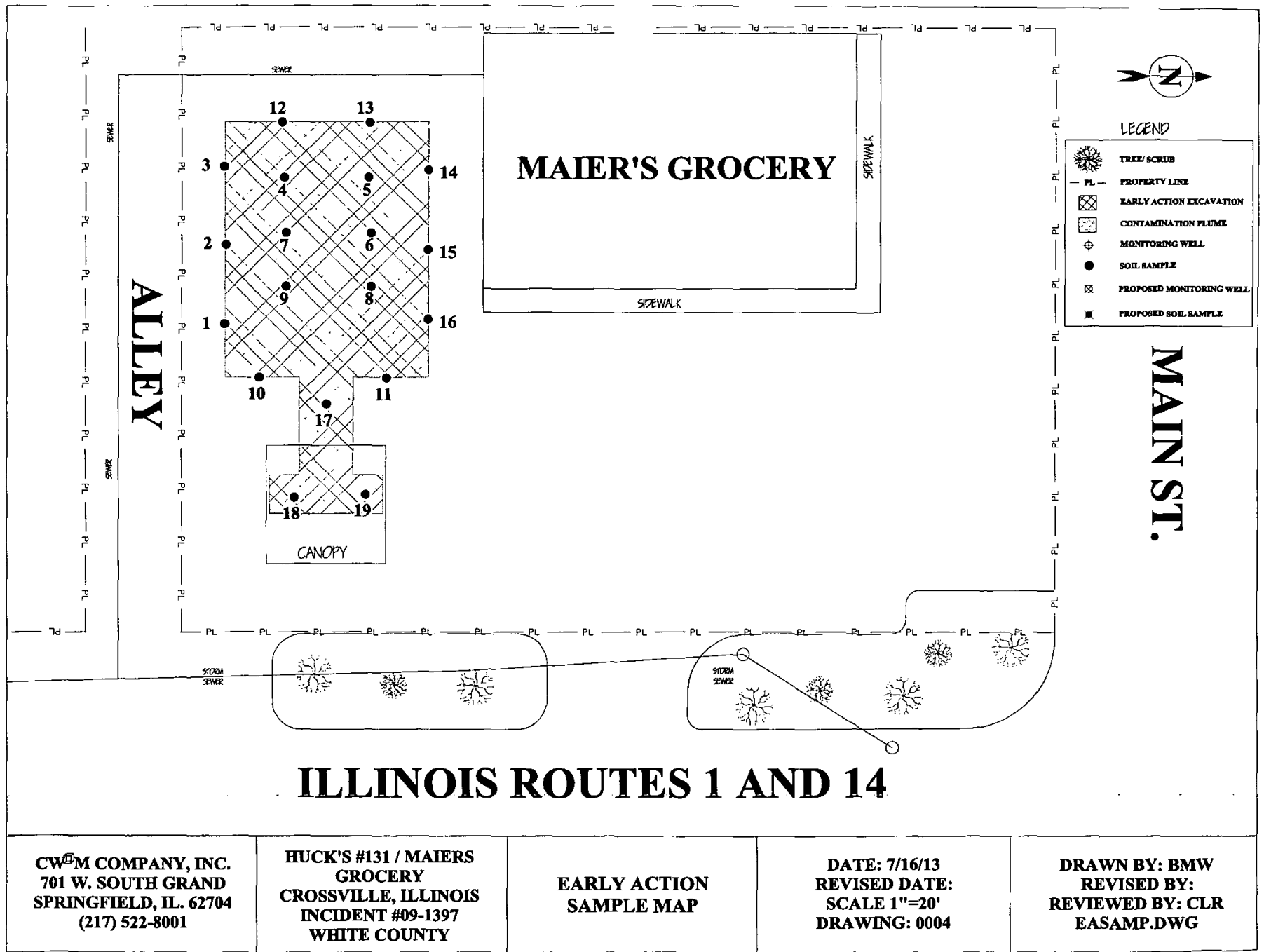
CWM COMPANY, INC.
 701 W. SOUTH GRAND
 SPRINGFIELD, IL. 62704
 (217) 522-8001

**HUCK'S #131 / MAIERS
 GROCERY
 CROSSVILLE, ILLINOIS
 INCIDENT #09-1397
 WHITE COUNTY**

**EARLY ACTION
 EXCAVATION MAP**

**DATE: 7/16/13
 REVISED DATE:
 SCALE 1"=20'
 DRAWING: 0003**

**DRAWN BY: BMW
 REVISED BY:
 REVIEWED BY: CLR
 EAEXC.DWG**



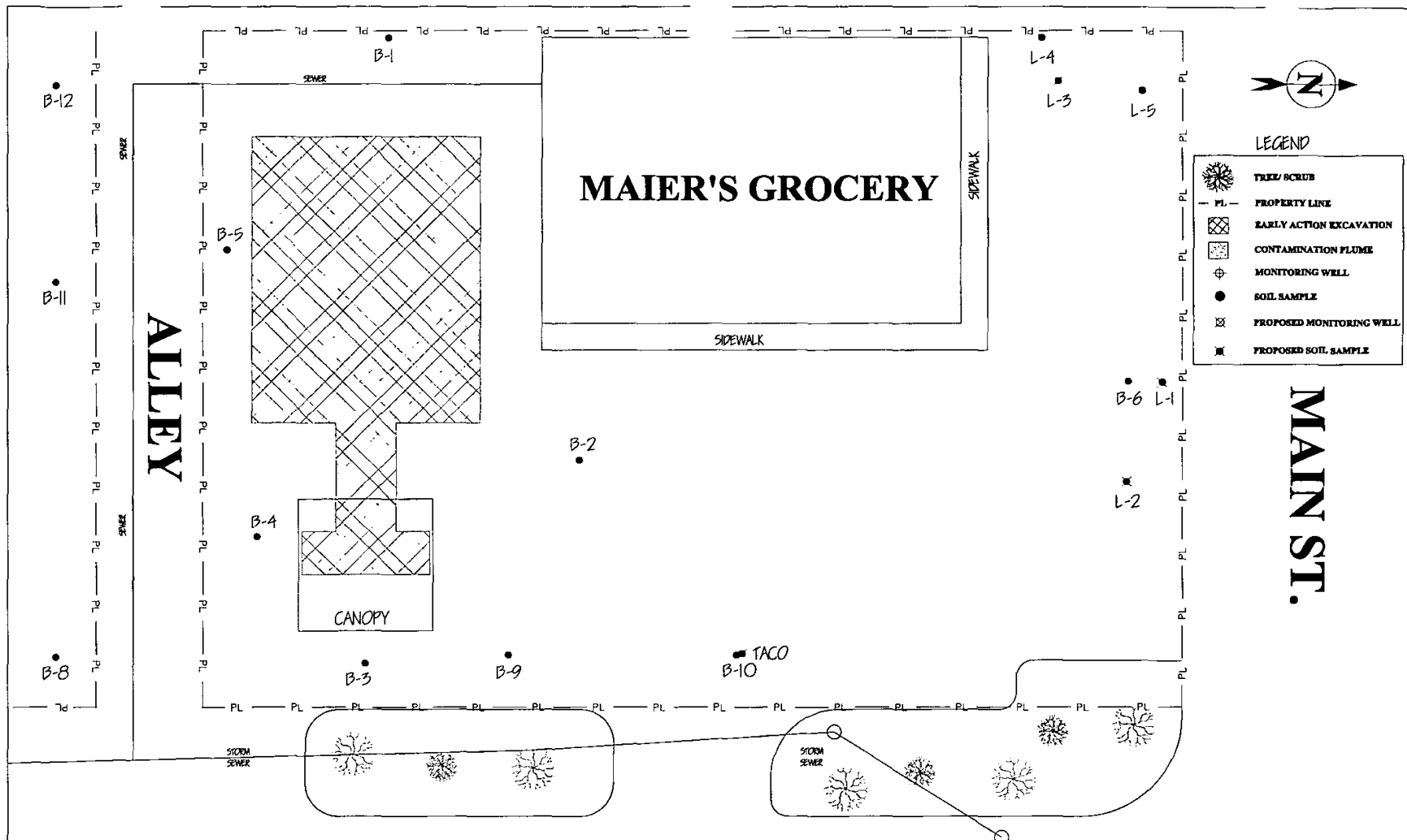
CWM COMPANY, INC.
701 W. SOUTH GRAND
SPRINGFIELD, IL. 62704
(217) 522-8001

HUCK'S #131 / MAIERS
GROCERY
CROSSVILLE, ILLINOIS
INCIDENT #09-1397
WHITE COUNTY

EARLY ACTION
SAMPLE MAP

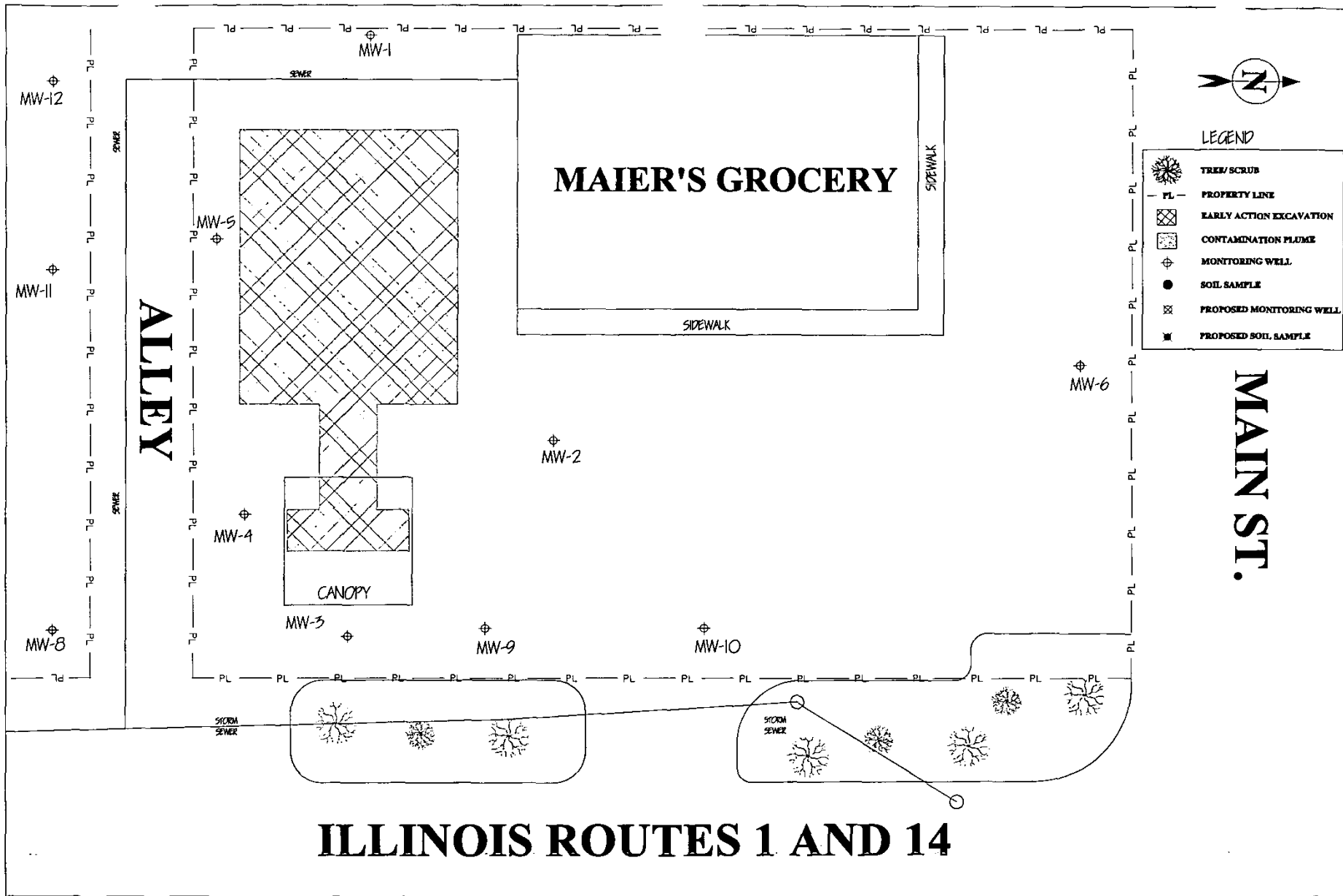
DATE: 7/16/13
REVISED DATE:
SCALE 1"=20'
DRAWING: 0004

DRAWN BY: BMW
REVISED BY:
REVIEWED BY: CLR
EASAMP.DWG



ILLINOIS ROUTES 1 AND 14

<p>CWM COMPANY, INC. 701 W. SOUTH GRAND SPRINGFIELD, IL. 62704 (217) 522-8001</p>	<p>HUCK'S #131 / MAIERS GROCERY CROSSVILLE, ILLINOIS INCIDENT #09-1397 WHITE COUNTY</p>	<p style="text-align: center;">SOIL BORING LOCATION MAP</p>	<p style="text-align: center;">DATE: 7/16/13 REVISED DATE: SCALE 1"=20' DRAWING: 0005</p>	<p style="text-align: center;">DRAWN BY: BMW REVISED BY: MDR REVIEWED BY: CLR SBLOC.DWG</p>
---	--	---	---	---



000574

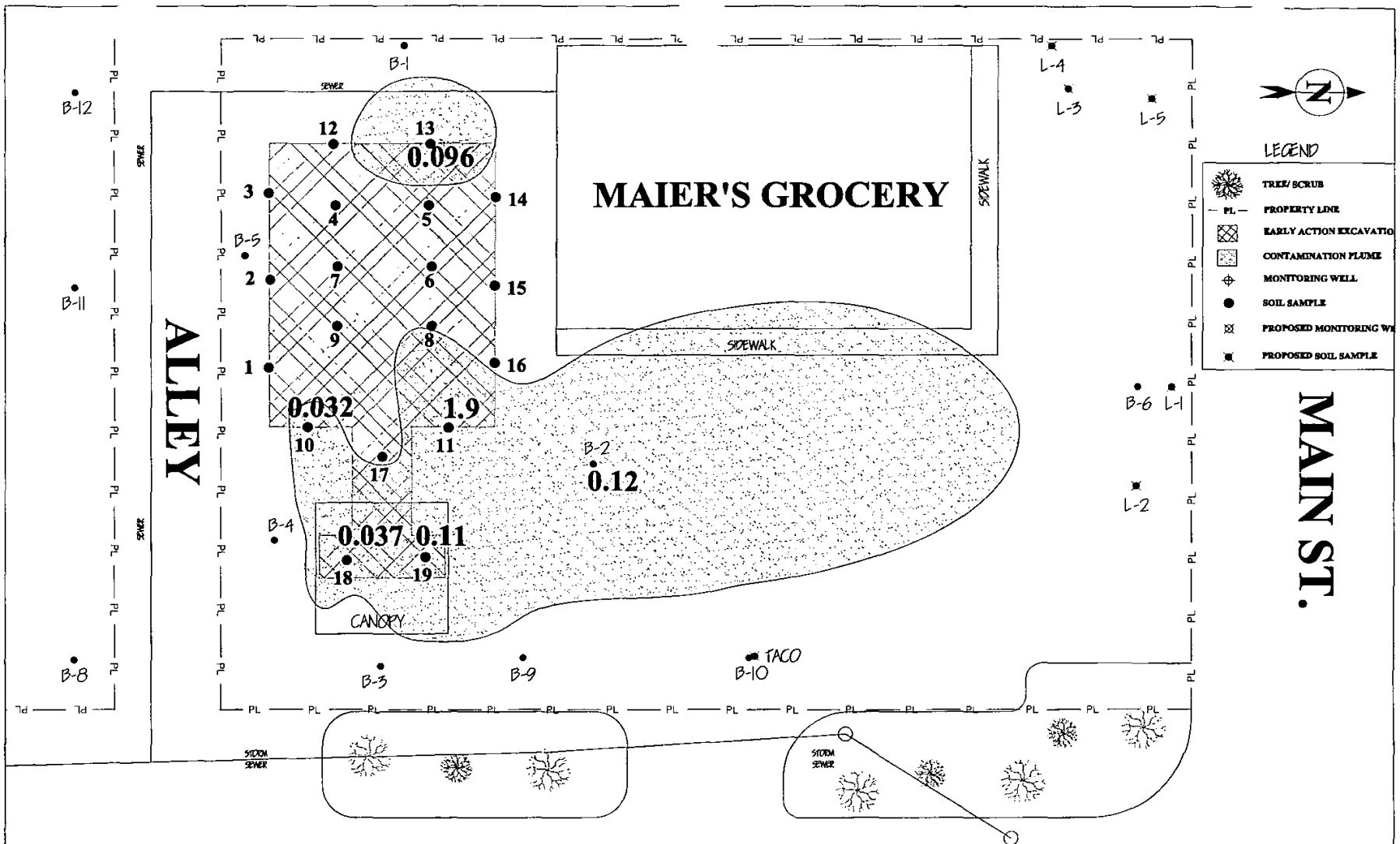
CWM COMPANY, INC.
701 W. SOUTH GRAND
SPRINGFIELD, IL. 62704
(217) 522-8001

HUCK'S #131 / MAIERS
GROCERY
CROSSVILLE, ILLINOIS
INCIDENT #09-1397
WHITE COUNTY

MONITORING WELL
LOCATION MAP

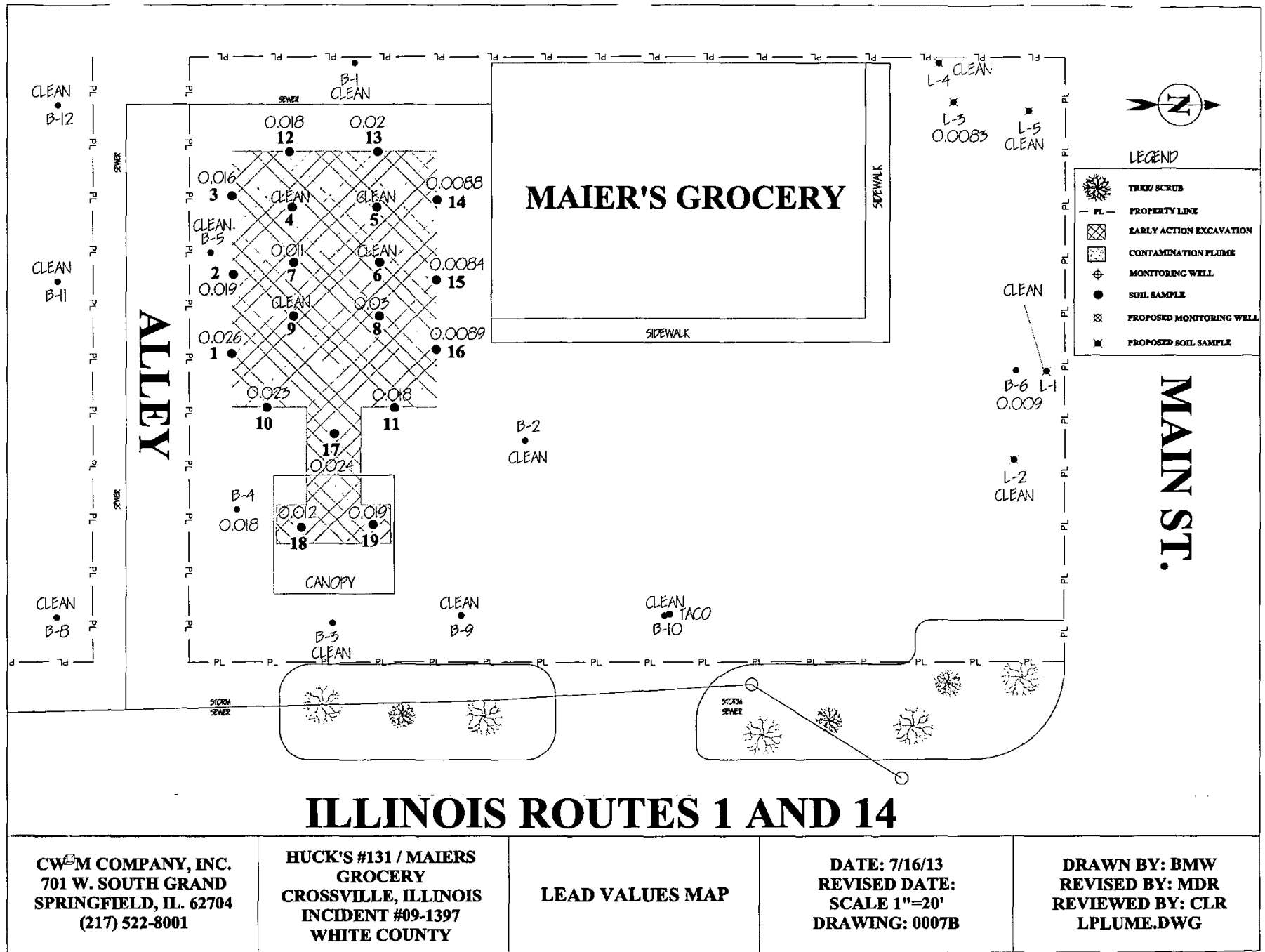
DATE: 7/16/13
REVISED DATE:
SCALE 1"=20'
DRAWING: 0006

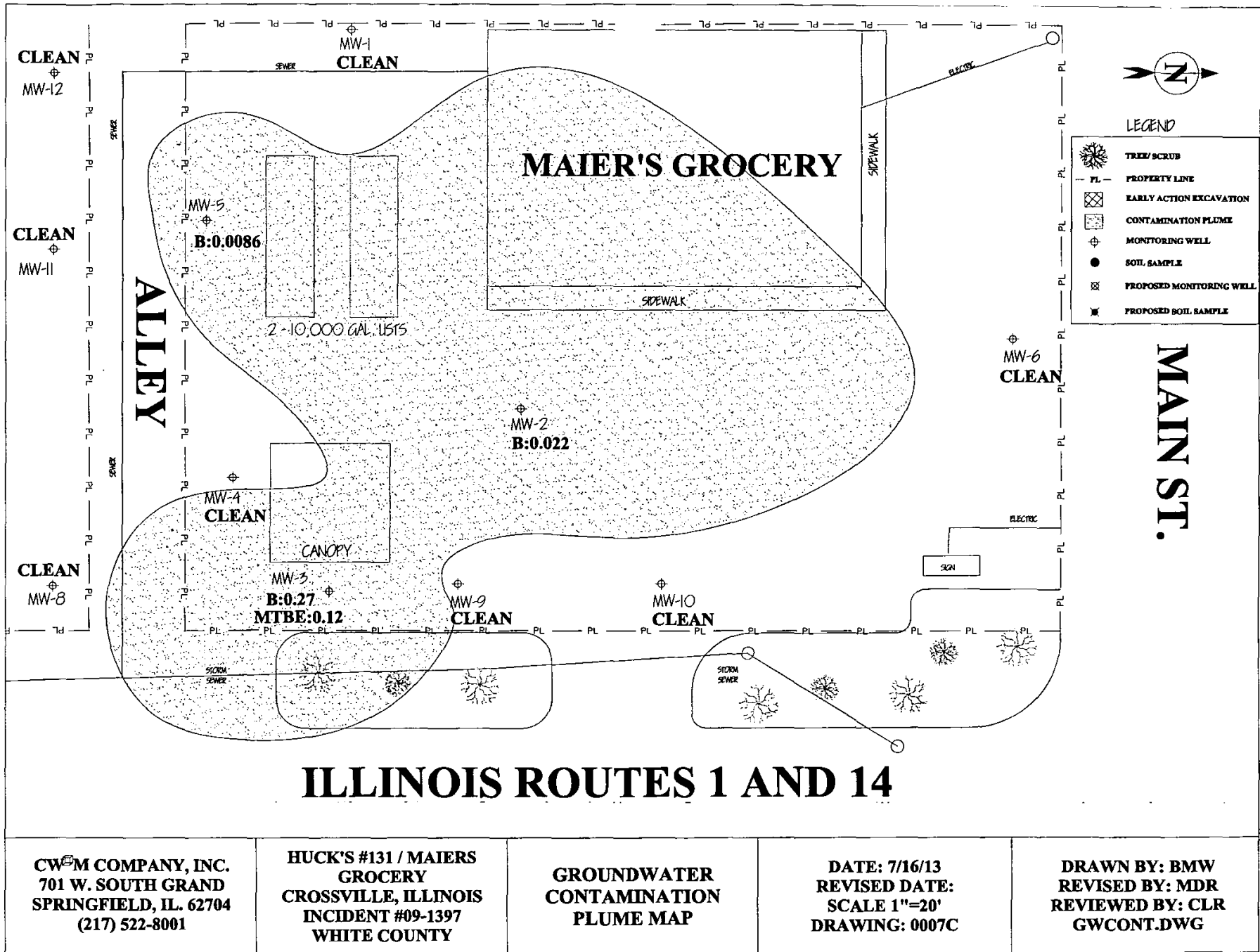
DRAWN BY: BMW
REVISED BY: MDR
REVIEWED BY: CLR
MWLOC.DWG



ILLINOIS ROUTES 1 AND 14

<p>CWM COMPANY, INC. 701 W. SOUTH GRAND SPRINGFIELD, IL. 62704 (217) 522-8001</p>	<p>HUCK'S #131 / MAIERS GROCERY CROSSVILLE, ILLINOIS INCIDENT #09-1397 WHITE COUNTY</p>	<p>BENZENE SOIL CONTAMINATION PLUME MAP</p>	<p>DATE: 7/16/13 REVISED DATE: 12/18/13 SCALE 1"=20' DRAWING: 0007A</p>	<p>DRAWN BY: BMW REVISED BY: MDR REVIEWED BY: CLR BPLUME.DWG</p>
---	--	--	--	---





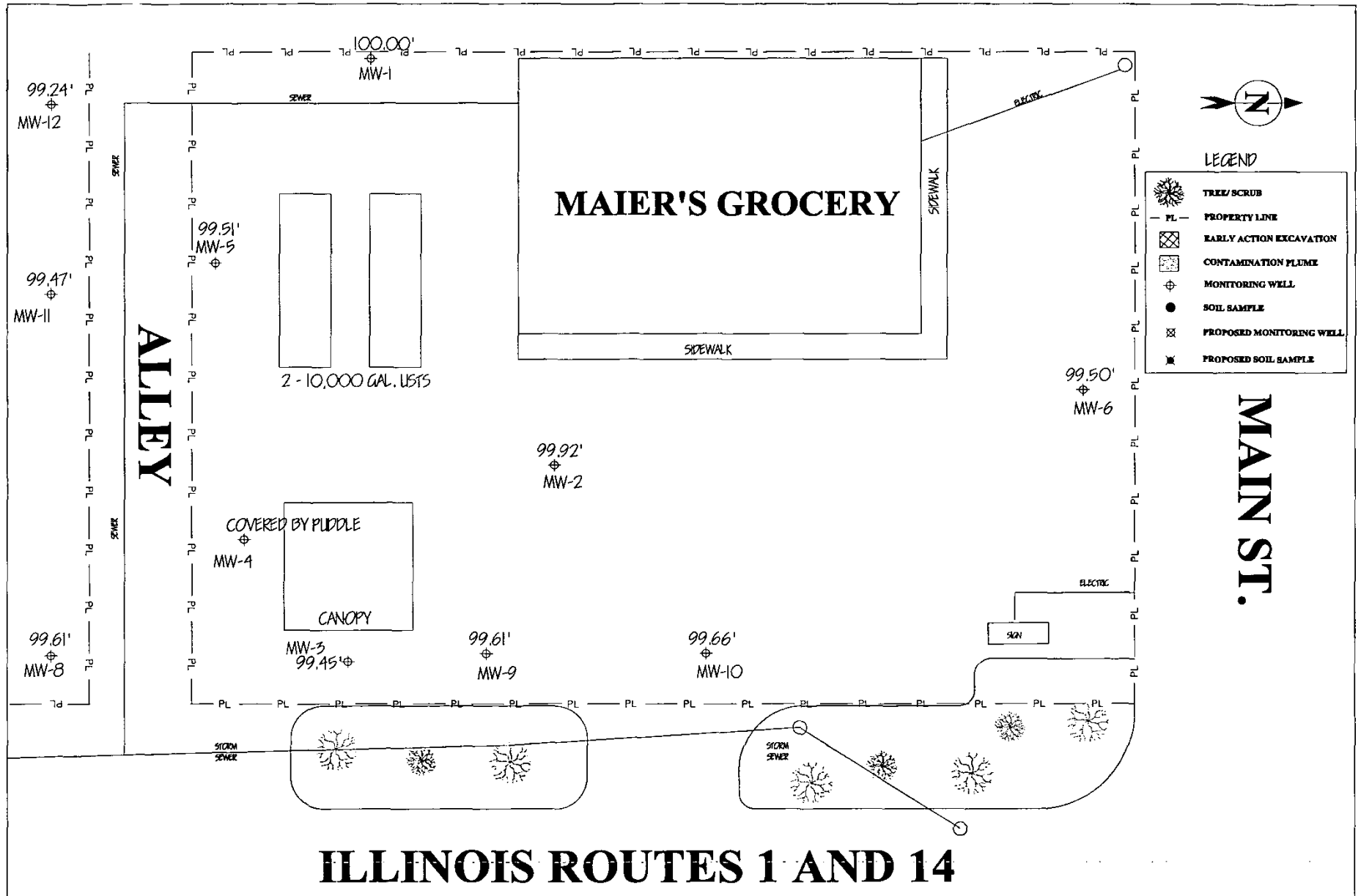
CWM COMPANY, INC.
 701 W. SOUTH GRAND
 SPRINGFIELD, IL. 62704
 (217) 522-8001

HUCK'S #131 / MAIERS
 GROCERY
 CROSSVILLE, ILLINOIS
 INCIDENT #09-1397
 WHITE COUNTY

GROUNDWATER
 CONTAMINATION
 PLUME MAP

DATE: 7/16/13
 REVISED DATE:
 SCALE 1"=20'
 DRAWING: 0007C

DRAWN BY: BMW
 REVISED BY: MDR
 REVIEWED BY: CLR
 GWCONT.DWG



CWM COMPANY, INC.
 701 W. SOUTH GRAND
 SPRINGFIELD, IL. 62704
 (217) 522-8001

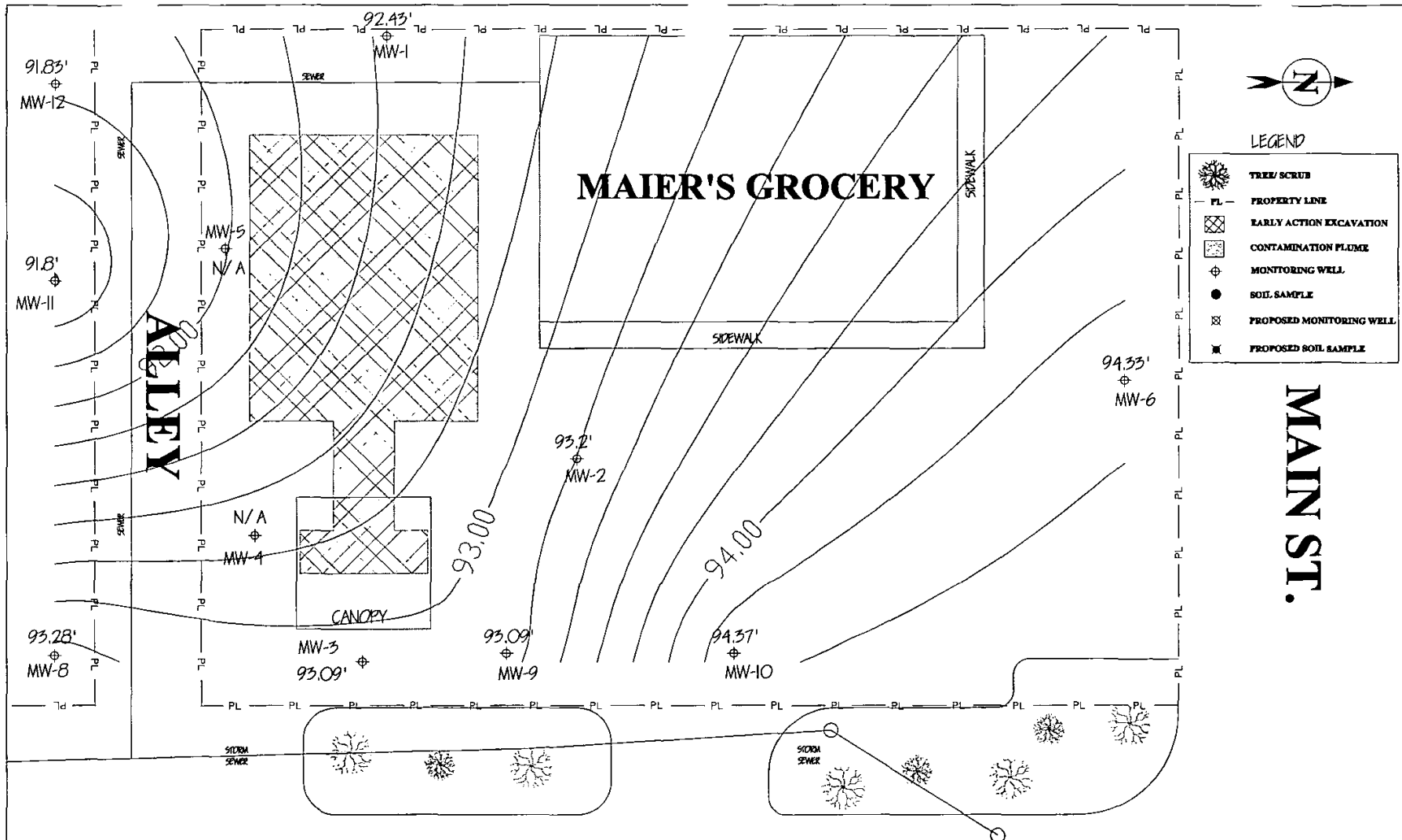
HUCK'S #131 / MAIERS
 GROCERY
 CROSSVILLE, ILLINOIS
 INCIDENT #09-1397
 WHITE COUNTY

MONITORING WELL
 ELEVATION MAP

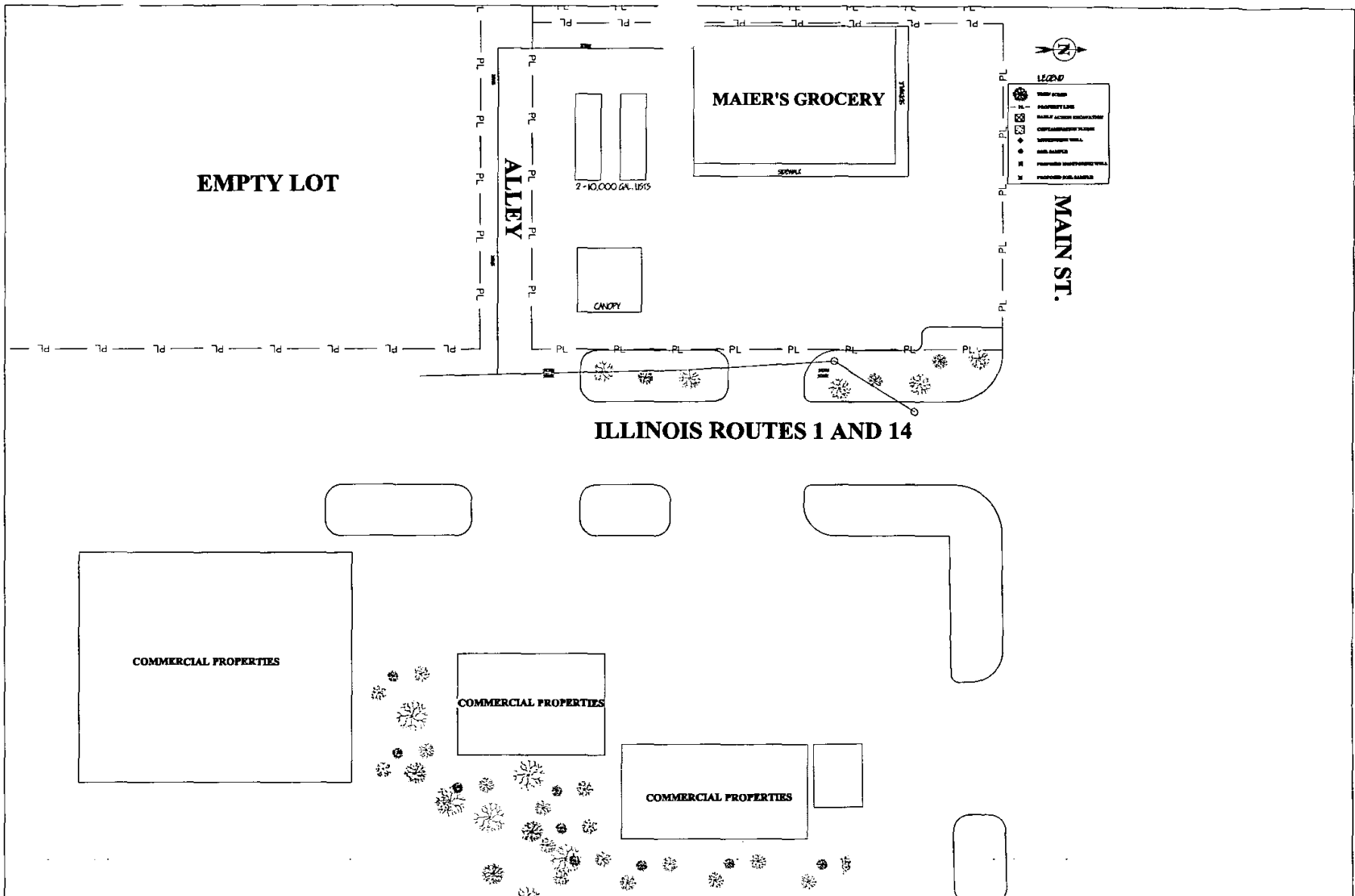
DATE: 6/20/13
 REVISED DATE:
 SCALE 1"=20'
 DRAWING: 0008

DRAWN BY: BMW
 REVISED BY:
 REVIEWED BY: CLR
 MWelev.dwg

000578



<p>CWM COMPANY, INC. 701 W. SOUTH GRAND SPRINGFIELD, IL. 62704 (217) 522-8001</p>	<p>HUCK'S #131 / MAIERS GROCERY CROSSVILLE, ILLINOIS INCIDENT #09-1397 WHITE COUNTY</p>	<p>GROUDWATER ELEVATION MAP (JUNE 2012)</p>	<p>DATE: 7/16/13 REVISED DATE: SCALE 1"=20' DRAWING: 0008A</p>	<p>DRAWN BY: BMW REVISED BY: MDR REVIEWED BY: CLR GWELEV.DWG</p>
---	--	--	---	---



CW²M COMPANY, INC.
701 W. SOUTH GRAND
SPRINGFIELD, IL. 62704
(217) 522-8001

HUCK'S #131 / MAIERS
GROCERY
CROSSVILLE, ILLINOIS
INCIDENT #09-1397
WHITE COUNTY

POTENTIALLY
IMPACTED PROPERTIES
MAP

DATE: 7/16/13
REVISED DATE: 1/21/2014
SCALE 1"=40'
DRAWING: 0009

DRAWN BY: BMW
REVIEWED BY: BMW
REVIEWED BY: CLR
SITE2.DWG

APPENDIX C

ILLINOIS OFFICE OF THE STATE FIRE MARSHAL ELIGIBILITY DETERMINATION

**SITE INVESTIGATION
COMPLETION REPORT
HUCK'S #131 / MAIER'S GROCERY
CROSSVILLE, ILLINOIS**



Office of the Illinois
State Fire Marshal
"Partnering With the Fire Service to Protect Illinois"

CERTIFIED MAIL - RECEIPT REQUESTED #7009 2250 0003 8632 1666

March 18, 2010

Martin & Bayley, Inc.
928 County Road 1350 North
Carmi, IL 62821

In Re: Facility No. 7-021663
IEMA Incident No. 09-1397
Meier Grocery #131
109 South State Highway 1
Crossville, White Co., IL

Dear Applicant:

The Reimbursement Eligibility and Deductible Application received on February 16, 2010 for the above referenced occurrence has been reviewed. The following determinations have been made based upon this review.

It has been determined that you are eligible to seek payment of costs in excess of \$10,000. The costs must be in response to the occurrence referenced above and associated with the following tanks:

Eligible Tanks

Tank 1 10,000 gallon Gasoline
Tank 2 10,000 gallon Gasoline

You must contact the Illinois Environmental Protection Agency to receive a packet of Agency billing forms for submitting your request for payment.

An owner or operator is eligible to access the Underground Storage Tank Fund if the eligibility requirements are satisfied:

1. Neither the owner nor the operator is the United States Government,
2. The tank does not contain fuel which is exempt from the Motor Fuel Tax Law,
3. The costs were incurred as a result of a confirmed release of any of the following substances:

"Fuel", as defined in Section 1.19 of the Motor Fuel Tax Law

Aviation fuel

Heating oil

Kerosene

1035 Stevenson Drive • Springfield, IL 67203-4259

Printed on Recycled Paper

000582

Used oil, which has been refined from crude oil used in a motor vehicle, as defined in Section 1.3 of the Motor Fuel Tax Law.

4. The owner or operator registered the tank and paid all fees in accordance with the statutory and regulatory requirements of the Gasoline Storage Act.
5. The owner or operator notified the Illinois Emergency Management Agency of a confirmed release, the costs were incurred after the notification and the costs were a result of a release of a substance listed in this Section. Costs of corrective action or indemnification incurred before providing that notification shall not be eligible for payment.
6. The costs have not already been paid to the owner or operator under a private insurance policy, other written agreement, or court order.
7. The costs were associated with "corrective action".

This constitutes the final decision as it relates to your eligibility and deductibility. We reserve the right to change the deductible determination should additional information that would change the determination become available. An underground storage tank owner or operator may appeal the decision to the Illinois Pollution Control Board (Board), pursuant to Section 57.9 (c) (2). An owner or operator who seeks to appeal the decision shall file a petition for a hearing before the Board within 35 days of the date of mailing of the final decision, (35 Illinois Administrative Code 105.102(a) (2)).

For information regarding the filing of an appeal, please contact:

Dorothy Gunn, Clerk
Illinois Pollution Control Board
State of Illinois Center
100 West Randolph, Suite 11-500
Chicago, Illinois 60601
(312) 814-3620

The following tanks are also listed for this site:

Tank 3 8,000 gallon Gasoline
Tank 4 4,000 gallon Gasoline

Your application indicates that there has not been a release from these tanks under this incident number. You may be eligible to seek payment of corrective action costs associated with these tanks if it is determined that there has been a release from one or more of these tanks. Once it is determined that there has been a release from one or more of these tanks you may submit a separate application for an eligibility determination to seek corrective action costs associated with this/these tanks.

If you have any questions, please contact our Office at (217) 785-1020 or (217) 785-5878.

Sincerely,



Deanne Lock
Administrative Assistant
Division of Petroleum and Chemical Safety

cc: IEPA
Facility File

APPENDIX D

BORING LOGS AND WELL COMPLETION REPORTS

**SITE INVESTIGATION
COMPLETION REPORT
HUCK'S #131 / MAIER'S GROCERY
CROSSVILLE, ILLINOIS**

PROJECT: Maier's Grocery BORING NO. B-1
 LOCATION: Crossville, Illinois
 DATE DRILLED: 06/02/10
 DEPTH OF BORING: 15'
 WATER INDICATION: Groundwater Encountered @ 8'
 WATER SAMPLE: PRODUCT LAYER: N/A
 METHODS: DRILLING: Geoprobe SAMPLING: Continuous
 DRILLING CO.: Advanced Environmental Drilling
 OBSERVATIONS BY: Matt Garner, John Marks Page 1 of 5

DEPTH	SAMPLE	FID	DESCRIPTION	DEPTH	FT. RECOVERY
0			Asphalt 3"	0	
			Crushed Stone 9"		
2	■	N.D.	No Recovery	2	
4			Dark Clay w/Pebbles Slightly Sandy	4	
6			Dark Sandy Clay	6	
			Rock		
8	■	N.D.	Brown Mottled Gray Sandy Clay	8	
10			Brown, Sandy Clay (moist)	10	
12	■	N.D.	Brown Mottled Gray Clay (Dry)	12	
14			Brown Clay, Sandy (wet)	14	
16			Bottom of Boring: 15'	16	
18				18	
20				20	
22				22	
24				24	
26				26	

BORING LOG

Applied Environmental Technologies, Inc.

PROJECT: Maier's Grocery BORING NO. B-2
 LOCATION: Crossville, Illinois
 DATE DRILLED: 06/02/10
 DEPTH OF BORING: 15'
 WATER INDICATION: Groundwater Encountered @ 11'
 WATER SAMPLE: PRODUCT LAYER: N/A
 METHODS: DRILLING: Geoprobe SAMPLING: Continuous
 DRILLING CO.: Advanced Environmental Drilling
 OBSERVATIONS BY: Matt Garner, John Marks Page 2 of 5

DEPTH	SAMPLE	FID	DESCRIPTION	DEPTH	FT. RECOVERY
0			Concrete 4"	0	
2			Crushed Stone 4"	2	
4		11.0	Brown Mottled Gray Clay (Stain and Odor)	4	
6			No Recovery	6	
8		8.0		8	
10		8.2	Gray Clay (Stain and Odor)	10	
10			Brown Mottled Gray Clay (Stain and Odor)	10	
12			Brown Mottled Gray Clay Groundwater Encountered @ 11'	12	
14			Brown Mottled Gray Clay (No Water)	14	
16			Bottom of Boring: 15'	16	
18				18	
20				20	
22				22	
24				24	
26				26	

BORING LOG

Applied Environmental Technologies, Inc.

PROJECT: Maier's Grocery BORING NO. B-3
 LOCATION: Crossville, Illinois
 DATE DRILLED: 06/02/10
 DEPTH OF BORING: 15'
 WATER INDICATION: Groundwater Encountered @ 12'
 WATER SAMPLE: PRODUCT LAYER: N/A
 METHODS: DRILLING: Geoprobe SAMPLING: Continuous
 DRILLING CO.: Advanced Environmental Drilling
 OBSERVATIONS BY: Matt Garner, John Marks Page 3 of 5

DEPTH	SAMPLE	FID	DESCRIPTION	DEPTH	FT. RECOVERY
0			Concrete 4"	0	
2			Crushed Stone 4"	2	
4		7.0	Dark Clay (Odor)	4	
6			Gray Mottled Brown Clay (Stain and Odor)	6	
8			Very Dark Brown Clay (Stain and Odor)	8	
10		5.5	Gray Mottled Brown Clay (sl. Odor)	10	
12			Brown Mottled Gray Clay	12	
14		4.5	Gray Mottled Brown Clay (Odor and sl. Stain)	14	
16			Gray Mottled Brown Clay (Groundwater Encountered @ 12')	16	
18			Gray Slightly Silty Clay (No Water)	18	
20				20	
22				22	
24				24	
26				26	

BORING LOG

Applied Environmental Technologies, Inc.

PROJECT: Maier's Grocery BORING NO. B-4
 LOCATION: Crossville, Illinois
 DATE DRILLED: 06/02/10
 DEPTH OF BORING: 15'
 WATER INDICATION: Groundwater Encountered @ 11.5'
 WATER SAMPLE: PRODUCT LAYER: N/A
 METHODS: DRILLING: Geoprobe SAMPLING: Continuous
 DRILLING CO.: Advanced Environmental Drilling
 OBSERVATIONS BY: Matt Garner, John Marks Page 4 of 5

DEPTH	SAMPLE	FID	DESCRIPTION	DEPTH	FT. RECOVERY
0			Concrete 4"	0	
2			Crushed Stone 4" Dark Clay (Stain and Odor)	2	
4		10.0	Gray Clay (Stain and mod. Odor)	4	
6			Gray Mottled Brown Clay (sl. Stain and mod. Odor)	6	
8		4.3	Gray Mottled Brown Clay	8	
10		3.0	Gray Mottled Brown Clay (sl. Odor and Stain)	10	
12			Groundwater Encountered @ 11.5' Brown Mottled Gray Clay	12	
14			Brown Mottled Gray Clay	14	
16			Bottom of Boring: 15'	16	
18				18	
20				20	
22				22	
24				24	
26				26	

BORING LOG

Applied Environmental Technologies, Inc.

PROJECT: Maier's Grocery BORING NO. B-5
 LOCATION: Crossville, Illinois
 DATE DRILLED: 06/02/10
 DEPTH OF BORING: 15'
 WATER INDICATION: Groundwater Encountered @ 11'
 WATER SAMPLE: PRODUCT LAYER: N/A
 METHODS: DRILLING: Geoprobe SAMPLING: Continuous
 DRILLING CO.: Advanced Environmental Drilling
 OBSERVATIONS BY: Matt Garner, John Marks Page 5 of 5

DEPTH	SAMPLE	FID	DESCRIPTION	DEPTH	FT. RECOVERY
0			Concrete 4"	0	
2		N.D.	Crushed Stone 4"	2	
4			Brown Mottled Gray Clay	4	
6			Dark Brown Clay	6	
8		N.D.	Brown Mottled Gray Clay	8	
10			Refusal	10	
12			Brown Slightly Silty Clay	12	
14			Gray Sandy Clay	14	
16			Bottom of Boring: 15'	16	
18				18	
20				20	
22				22	
24				24	
26				26	

BORING LOG

Applied Environmental Technologies, Inc.



INCIDENT #: 2009-1397	BOREHOLE NUMBER: SB6/MW6
NAME: Maier's Grocery	BORING LOCATION: 25' N 10' E of NE corner of the building
ADDRESS: Illinois Route 1 and 14 Crossville, IL	RIG TYPE: Truck mounted drill rig
DATE/TIME STARTED: 11/21/11 10:00 am	DRILLING/SAMPLE METHOD: continuous sampling/hollow stem auger
DATE/TIME FINISHED: 11/21/11 10:30 am	BACKFILL: Well

DEPTH (FEET)	SOIL AND ROCK DESCRIPTION	USCS CLASS	Sample Recovery	PID (ppm)	Sample Type	SAMPLE NUMBER	REMARKS: (Odor, Color, Moisture, Penetrometer, etc.)
0	Concrete						No odor or discoloration
1	Gravel sub-base						
2	Dark brown clayey silt		80%	0	Grab	B6-2.5	BETX/MTBE/TCLP LEAD
3							
4	light brown						
5							
6							
7			90%	0	Grab	B6-7.5	BETX/MTBE/TCLP LEAD
8							WET
9							
10							
11							
12							
13							
14							
15							
16	Well installed to 15'						

Stratification lines are approximate, in-situ transition between soil types may be gradual.

NOTES:

Manway / Surface Elevation:

▼ Groundwater Depth While Drilling:	8' ~ 10'	Auger Depth:	15'	Driller:	CW ¹ M
▽ Groundwater Depth After Drilling:		Rotary Depth:		Geologist:	JKT/ MDR



Illinois Environmental Protection Agency

CW M COMPANY, INC.
DRILLING BOREHOLE LOG

Page 1 of 1

INCIDENT #: 2009-1397	BOREHOLE NUMBER: SB8/MW8
NAME: Maier's Grocery	BORING LOCATION: 44'E of B-11
ADDRESS: Illinois Route 1 and 14 Crossville, IL	RIG TYPE: Truck mounted drill rig
DATE/TIME STARTED: 11/21/11 12:00 pm	DRILLING/SAMPLE METHOD: continuous sampling/hollow stem auger
DATE/TIME FINISHED: 11/21/11 12:30 pm	BACKFILL: Well

DEPTH (FEET)	SOIL AND ROCK DESCRIPTION	USCS CLASS	Sample Recovery	PID (ppm)	Sample Type	SAMPLE NUMBER	REMARKS: (Odor, Color, Moisture, Penetrometer, etc.)	
0	grass							
1	Top soil						No odor or discoloration	
2	Brown clayey silt		90%	0	Grab	B8-2.5	BETX/MTBE/TCLP LEAD	
3								
4								
5								
6							slight odor and discoloration	
7			90%	260	Grab	B8-7.5	BETX/MTBE/TCLP LEAD	
8								
9								WET
10								
11								
12								
13								
14								
15								
16	Well installed to 15'							

Stratification lines are approximate, in-situ transition between soil types may be gradual.

NOTES:

Manway / Surface Elevation:

▼ Groundwater Depth While Drilling:	8' ~ 10'	Auger Depth:	15'	Driller:	CW M
▽ Groundwater Depth After Drilling:		Rotary Depth:		Geologist:	JKT/ MDR



Illinois Environmental Protection Agency

CW³M COMPANY, INC.
DRILLING BOREHOLE LOG

Page 1 of 1

INCIDENT #: 2009-1397	BOREHOLE NUMBER: SB9/MW9
NAME: Maier's Grocery	BORING LOCATION: 50' E 5' S of SE corner of building
ADDRESS: Illinois Route 1 and 14 Crossville, IL	RIG TYPE: Truck mounted drill rig
DATE/TIME STARTED: 11/21/11 11:30 am	DRILLING/SAMPLE METHOD: continuous sampling/hollow stem auger
DATE/TIME FINISHED: 11/21/11 12:00 pm	BACKFILL: Well

DEPTH (FEET)	SOIL AND ROCK DESCRIPTION	USCS CLASS	Sample Recovery	PID (ppm)	Sample Type	SAMPLE NUMBER	REMARKS: (Odor, Color, Moisture, Penetrometer, etc.)	
0	Concrete						No odor or discoloration	
1	Gravel sub-base							
2	Brown clayey silt		100%	0	Grab	B6-2.5	BETX/MTBE/TCLP LEAD	
3								
4								
5	Brown silty clay							
6								
7								
8			100%	0	Grab	B6-7.5	BETX/MTBE/TCLP LEAD	
9								WET
10								
11								
12								
13								
14								
15								
16	Well installed to 15'							

Stratification lines are approximate, in-situ transition between soil types may be gradual.

NOTES:

Manway / Surface Elevation:

▼ Groundwater Depth While Drilling:	8' ~ 10'	Auger Depth:	15'	Driller:	CW ³ M
▽ Groundwater Depth After Drilling:		Rotary Depth:		Geologist:	JKT/MDR



LUST INCIDENT #: 2009-1397		BOREHOLE NUMBER: SB10/MW10	
SITE NAME: Maier's Grocery		BORING LOCATION: 34'N of B-9	
SITE ADDRESS: Illinois Route 1 and 14 Crossville, IL		RIG TYPE: Truck mounted drill rig	
DATE/TIME STARTED: 11/21/11 10:45 am		DRILLING/SAMPLE METHOD: continuous sampling/hollow stem auger	
DATE/TIME FINISHED: 11/21/11 11:15 am		BACKFILL: Well	

DEPTH (FEET)	SOIL AND ROCK DESCRIPTION	USCS CLASS	Sample Recovery	PID (ppm)	Sample Type	SAMPLE NUMBER	REMARKS: (Odor, Color, Moisture, Penetrometer, etc.)
0	Concrete						No odor or discoloration
1	Gravel sub-base						
2	Dark brown clayey silt		90%	0	Grab	B10-2.5	BETX/MTBE/TCLP LEAD
3							
4	light brown						
5							
6							
7			100%	0	Grab	B10-7.5	BETX/MTBE/TCLP LEAD
8							WET
9							
10							
11							
12							
13							
14							
15	Well installed to 15'						
16							

Stratification lines are approximate, in-situ transition between soil types may be gradual.

NOTES:

Manway / Surface Elevation:

▼ Groundwater Depth While Drilling:	8' ~ 10'	Auger Depth:	15'	Driller:	CW ¹³ M
▽ Groundwater Depth After Drilling:		Rotary Depth:		Geologist:	JKT/ MDR



LUST INCIDENT #: 2009-1397		BOREHOLE NUMBER: SB11/MW11	
CLIENT NAME: Maier's Grocery		BORING LOCATION: 30' E of B-12	
SITE ADDRESS: Illinois Route 1 and 14 Crossville, IL		RIG TYPE: Truck mounted drill rig	
DATE/TIME STARTED: 11/21/11 12:30 pm		DRILLING/SAMPLE METHOD: continuous sampling/hollow stem auger	
DATE/TIME FINISHED: 11/21/11 1:00 pm		BACKFILL: Well	

DEPTH (FEET)	SOIL AND ROCK DESCRIPTION	USCS CLASS	Sample Recovery	PID (ppm)	Sample Type	SAMPLE NUMBER	REMARKS: (Odor, Color, Moisture, Penetrometer, etc.)
0	grass						
1	Topsoil						No odor or discoloration
2	Light brown silty clay		70%	0	Grab	B11-2.5	BETX/MTBE/TCLP LEAD
3							
4							
5							
6							
7			90%	0	Grab	B11-7.5	BETX/MTBE/TCLP LEAD
8							WET
9							
10							
11							
12							
13							
14							
15							
16	Well installed to 15'						

Stratification lines are approximate, in-situ transition between soil types may be gradual.

NOTES:

Manway / Surface Elevation:

Groundwater Depth While Drilling:	8' ~ 10'	Auger Depth:	15'	Driller:	CW M
Groundwater Depth After Drilling:		Rotary Depth:		Geologist:	JKT/MDR



LUST INCIDENT #: 2009-1397	BOREHOLE NUMBER: SB12/MW12
CLIENT NAME: Maier's Grocery	BORING LOCATION: 76' S, 2' E of SW corner of building
SITE ADDRESS: Illinois Route 1 and 14 Crossville, IL	RIG TYPE: Truck mounted drill rig
DATE/TIME STARTED: 11/21/11 1:00 pm	DRILLING/SAMPLE METHOD: continuous sampling/hollow stem auger
DATE/TIME FINISHED: 11/21/11 1:30 pm	BACKFILL: Well

DEPTH (FEET)	SOIL AND ROCK DESCRIPTION	USCS CLASS	Sample Recovery	PID (ppm)	Sample Type	SAMPLE NUMBER	REMARKS: (Odor, Color, Moisture, Penetrometer, etc.)
0	grass						
1	Topsoil						No odor or discoloration
2	Light brown silty clay		90%	0	Grab	B12-2.5	BETX/MTBE/TCLP LEAD
3							
4	light brown clayey silt						
5							
6							
7			90%	0	Grab	B12-7.5	BETX/MTBE/TCLP LEAD
8							WET
9							
10							
11							
12			90%				
13							
14							
15	End of boring/Well installed						
16							

Stratification lines are approximate. in-situ transition between soil types may be gradual.

NOTES:

Manway / Surface Elevation:

▼ Groundwater Depth While Drilling:	8' ~ 10'	Auger Depth:	15'	Driller:	CW M
▽ Groundwater Depth After Drilling:		Rotary Depth:		Geologist:	JKT/MDR



LIST INCIDENT #: 2009-1397	BOREHOLE NUMBER: L-1
CLIENT NAME: Maier's Grocery	BORING LOCATION: 5'N of MW-6
SITE ADDRESS: Illinois Route 1 and 14 Crossville, IL	RIG TYPE: Truck mounted drill rig
DATE/TIME STARTED: 8/15/13 11:15	DRILLING/SAMPLE METHOD: continuous sampling/hollow stem auger
DATE/TIME FINISHED: 8/15/13 11:30	BACKFILL: Grout

DEPTH (FEET)	SOIL AND ROCK DESCRIPTION	USCS CLASS	Sample Recovery	PID (ppm)	Sample Type	SAMPLE NUMBER	REMARKS: (Odor, Color, Moisture, Penetrometer, etc.)
0	Concrete						No Odor or Discoloration
1	Gravel sub-base						
2	Dark brown clayey silt	CL	90%	0	Grab	L-1 2.5'	TCLP Lead
3							
4							
5	light brown						
6							
7			100%	0	Grab	L-1 7.5'	TCLP Lead
8							
9							
10	EOB 10'						
11							
12							
13							
14							
15							
16							

Stratification lines are approximate, in-situ transition between soil types may be gradual.

NOTES:

Manway / Surface Elevation:

▼	Groundwater Depth While Drilling:	9-10'	Auger Depth:	10'	Driller:	CW M
▽	Groundwater Depth After Drilling:		Rotary Depth:		Geologist:	MDR/CTB



INCIDENT #: 2009-1397	BOREHOLE NUMBER: L-2
CLIENT NAME: Maier's Grocery	BORING LOCATION: 15'E of MW-6
SITE ADDRESS: Illinois Route 1 and 14 Crossville, IL	RIG TYPE: Truck mounted drill rig
DATE/TIME STARTED: 8/15/13 11:30	DRILLING/SAMPLE METHOD: continuous sampling/hollow stem auger
DATE/TIME FINISHED: 8/15/13 11:55	BACKFILL: Grout

DEPTH (FEET)	SOIL AND ROCK DESCRIPTION	USCS CLASS	Sample Recovery	PID (ppm)	Sample Type	SAMPLE NUMBER	REMARKS: (Odor, Color, Moisture, Penetrometer, etc.)
0	Concrete						No Odor or Discoloration
1	Gravel sub-base						
2	Dark brown clayey silt	CL	90%	0	Grab	L-2 2.5'	TCLP Lead
3							
4							
5	light brown						
6							
7			95%	0	Grab	L-2 7.5'	TCLP Lead
8							
9							
10	EOB 10'						
11							
12							
13							
14							
15							
16							

Stratification lines are approximate, in-situ transition between soil types may be gradual.

NOTES:

Manway / Surface Elevation:

Groundwater Depth While Drilling:	9-10'	Auger Depth:	10'	Driller:	CW ¹ M
Groundwater Depth After Drilling:		Rotary Depth:		Geologist:	MDR/CTB



LUST INCIDENT #: 2009-1397		BOREHOLE NUMBER: L-3	
NAME: Maier's Grocery		BORING LOCATION: 10'S and 45'W of MW-6	
SITE ADDRESS: Illinois Route 1 and 14 Crossville, IL		RIG TYPE: Truck mounted drill rig	
DATE/TIME STARTED: 8/15/13 11:55		DRILLING/SAMPLE METHOD: continuous sampling/hollow stem auger	
DATE/TIME FINISHED: 8/15/13 12:15		BACKFILL: Grout	

DEPTH (FEET)	SOIL AND ROCK DESCRIPTION	USCS CLASS	Sample Recovery	PID (ppm)	Sample Type	SAMPLE NUMBER	REMARKS: (Odor, Color, Moisture, Penetrometer, etc.)
0	Concrete						No Odor or Discoloration
1	Gravel sub-base						
2	Dark brown clayey silt	CL	95%	0	Grab	L-3 2.5'	TCLP Lead
3							
4							
5			light brown				
6							
7			100%	0	Grab	L-3 7.5'	TCLP Lead
8							
9							
10	EOB 10'						
11							
12							
13							
14							
15							
16							

Stratification lines are approximate, in-situ transition between soil types may be gradual.

NOTES:

Manway / Surface Elevation:

▼	Groundwater Depth While Drilling:	9-10'	Auger Depth:	10'	Driller:	CW ^{II} M
▽	Groundwater Depth After Drilling:		Rotary Depth:		Geologist:	MDR/CTB



LUST INCIDENT #: 2009-1397		BOREHOLE NUMBER: L4	
SITE NAME: Maier's Grocery		BORING LOCATION: 12'N and 1'W of NW corner of building	
SITE ADDRESS: Illinois Route 1 and 14 Crossville, IL		RIG TYPE: Truck mounted drill rig	
DATE/TIME STARTED: 11-18-2013 12:15		DRILLING/SAMPLE METHOD: continuous sampling/hollow stem auger	
DATE/TIME FINISHED: 11-18-2013 12:35		BACKFILL: Grout	

DEPTH (FEET)	SOIL AND ROCK DESCRIPTION	USCS CLASS	Sample Recovery	PID (ppm)	Sample Type	SAMPLE NUMBER	REMARKS: (Odor, Color, Moisture, Penetrometer, etc.)
0	Grass						
1	Topsoil, brown silt loam	OM					No odor or discoloration
2	Dark brown silty clay	CL	95%	0	grab	L4-2.5	Lead, TCLP
3							
4	Brown silty clay	CL					
5							
6							
7	Brown clayey silt	ML	95%	0	grab	L4-7.5	Lead, TCLP
8							
9	End of boring: 10'						
10							
11							
12							
13							
14							
15							
16							

Stratification lines are approximate, in-situ transition between soil types may be gradual.

NOTES: Sampled at 2.5' & 7.5' per regulations

Manway / Surface Elevation:

▼ Groundwater Depth While Drilling:	9-10'	Auger Depth:	10'	Driller:	CWM
▽ Groundwater Depth After Drilling:		Rotary Depth:		Geologist:	BMW/RJS



LUST INCIDENT #: 2009-1397		BOREHOLE NUMBER: L5	
NAME: Maier's Grocery		BORING LOCATION: 23'N and 8'E of NW corner of station building	
SITE ADDRESS: Illinois Route 1 and 14 Crossville, IL		RIG TYPE: Truck mounted drill rig	
DATE/TIME STARTED: 11-18-2013 12:35		DRILLING/SAMPLE METHOD: continuous sampling/hollow stem auger	
DATE/TIME FINISHED: 11-18-2013 12:55		BACKFILL: Grout	

DEPTH (FEET)	SOIL AND ROCK DESCRIPTION	USCS CLASS	Sample Recovery	PID (ppm)	Sample Type	SAMPLE NUMBER	REMARKS: (Odor, Color, Moisture, Penetrometer, etc.)
0	Concrete						
1	Gravel subbase						No odor or discoloration throughout
2	Dark brown silty clay	CL	95%	0	grab	L5-2.5	Lead, TCLP
3							
4	Brown silty clay	CL					
5							
6							
7							
7			85%	0	grab	L5-7.5	Lead, TCLP
8							
9							
10	End of boring: 10'						
11							
12							
13							
14							
15							
16							

Stratification lines are approximate, in-situ transition between soil types may be gradual.

NOTES: Sampled at 2.5' & 7.5' per regulations

Manway / Surface Elevation:

▼ Groundwater Depth While Drilling:	9-10'	Auger Depth:	10'	Driller:	CWM
▽ Groundwater Depth After Drilling:		Rotary Depth:		Geologist:	BMW/RJS



LUST INCIDENT #: 2009-1397		BOREHOLE NUMBER: TACO	
NAME: Maier's Grocery		BORING LOCATION: Taken From MW-10	
SITE ADDRESS: Illinois Route 1 and 14 Crossville, IL		RIG TYPE: Truck mounted drill rig	
DATE/TIME STARTED: 8/15/13 12:55		DRILLING/SAMPLE METHOD: continuous sampling/hollow stem auger	
DATE/TIME FINISHED: 8/15/13 1:25		BACKFILL: Grout	

DEPTH (FEET)	SOIL AND ROCK DESCRIPTION	USCS CLASS	Sample Recovery	PID (ppm)	Sample Type	SAMPLE NUMBER	REMARKS: (Odor, Color, Moisture, Penetrometer, etc.)
0	Concrete						No Odor or Discoloration
1	Gravel sub-base						
2	Dark brown clayey silt light brown	CL	90%	0			TACO Parameters
3							
4							
5							
6							
7			100%	0	Grab	TACO	
8							
9							
10	EOB 10'						
11							
12							
13							
14							
15							
16							

Stratification lines are approximate, in-situ transition between soil types may be gradual.

NOTES:

Manway / Surface Elevation:

▼	Groundwater Depth While Drilling:	9-10'	Auger Depth:	10'	Driller:	CW · M
▽	Groundwater Depth After Drilling:		Rotary Depth:		Geologist:	MDR/CTB

Illinois Environmental Protection Agency

LUST Well Completion Report

Incident No. 2009-1397
 Site Name Huck's #131 / Maiers Grocery
 Drilling Contractor CW³M
 Driller CW³M
 Drilling Method Hollow Stem Auger

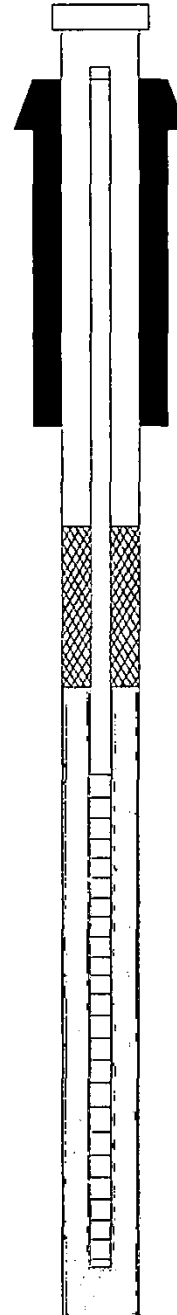
Well No. MW-6
 Date Drilled 11/21/2011
 Date Completed 11/21/2011
 Geologist MDR/JKT
 Drilling Fluids N/A

Annular Space Details

Type of Surface Seal Concrete
 Type of Annular Sealant Bentonite
 Type of Bentonite High-Yield
 Type of Sand Pack Coarse 20-20

Well Construction Materials

	Stainless Steel Type	PVC Specify Type	Other Specify Type
Riser Coupling Joint			
Riser Pipe Above w.t.		Sched.-40	
Riser Pipe Below w.t.			
Screen		Sched.-40	
Coupling Joint			
Screen to Riser		Sched.-40	
Protective Casing			Steel



Top of Protective Casing 99.50 ft.
 Top of riser pipe 99.25 ft.
 Ground surface 99.50 ft.
 Top of Annular Sealant 99.00 ft.
 Casing Stickup N/A

Top of Seal 99.00 ft.
 Total Seal interval 3.00 ft.
 Top of Sand 96.00 ft.
 Top of Screen 95.00 ft.

Total Screen Interval 10.0 ft.

Bottom of Screen 85.00 ft.
 Bottom of Borchole 84.50 ft.

Measurements

Riser Pipe Length	4.25 ft.
Screen Length	10.0 ft.
Screen Slot Size	10-slot
Protective Casing Length	N/A
Depth to Water	-8-10 ft. while drilling
Depth to Water	94.33 ft. static
Free Product Thickness	N/A
Gallons removed (develop)	N/A
Gallons removed (purge)	N/A
Other	

Completed by: BMW

Illinois Environmental Protection Agency

LUST Well Completion Report

Incident No. 2009-1397
 Site Name Huck's #131 / Maiers Grocery
 Drilling Contractor CW³M
 Driller CW³M
 Drilling Method Hollow Stem Auger

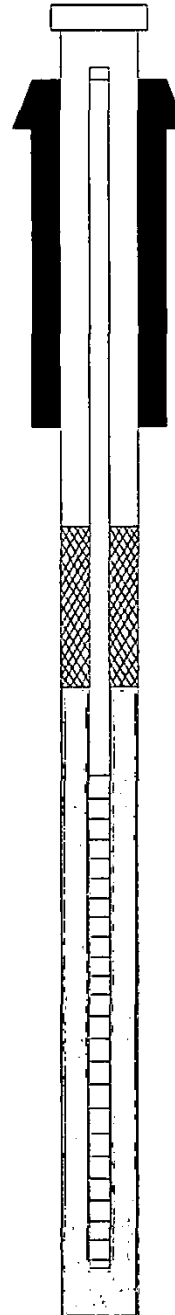
Well No. MW-8
 Date Drilled 11/21/2011
 Date Completed 11/21/2011
 Geologist MDR/JKT
 Drilling Fluids N/A

Annular Space Details

Type of Surface Seal Concrete
 Type of Annular Sealant Bentonite
 Type of Bentonite High-Yield
 Type of Sand Pack Coarse 20-20

Well Construction Materials

	Stainless Steel Type	PVC Specify Type	Other Specify Type
Riser Coupling Joint			
Riser Pipe Above w.t.		Sched.-40	
Riser Pipe Below w.t.			
Screen		Sched.-40	
Coupling Joint Screen to Riser		Sched.-40	
Protective Casing			Steel



Top of Protective Casing 99.61 ft.
 Top of riser pipe 99.36 ft.
 Ground surface 99.61 ft.
 Top of Annular Sealant 99.11 ft.
 Casing Stickup N/A

Top of Seal 99.11 ft.
 Total Seal interval 3.00 ft.
 Top of Sand 96.11 ft.
 Top of Screen 95.11 ft.

Total Screen Interval 10.0 ft.

Bottom of Screen 85.11 ft.
 Bottom of Borehole 84.61 ft.

Measurements

Riser Pipe Length	4.25 ft.
Screen Length	10.0 ft.
Screen Slot Size	10-slot
Protective Casing Length	N/A
Depth to Water	~8-10 ft. while drilling
Depth to Water	93.28 ft. static
Free Product Thickness	N/A
Gallons removed (develop)	N/A
Gallons removed (purge)	N/A
Other	

Completed by: BMW

Illinois Environmental Protection Agency

LUST Well Completion Report

Incident No. 2009-1397
 Site Name Huck's #131 / Maiers Grocery
 Drilling Contractor CW³M
 Driller CW³M
 Drilling Method Hollow Stem Auger

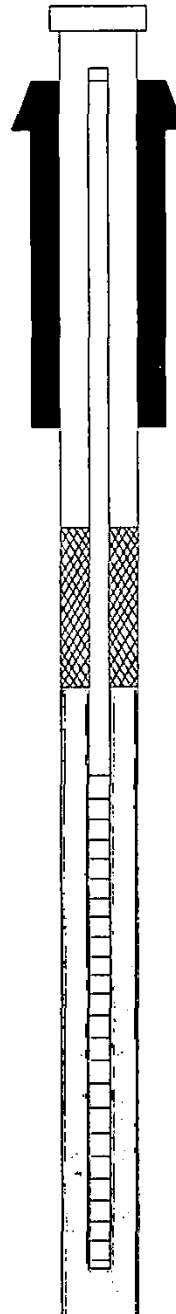
Well No. MW-9
 Date Drilled 11/21/2011
 Date Completed 11/21/2011
 Geologist MDR/JKT
 Drilling Fluids N/A

Annular Space Details

Type of Surface Seal Concrete
 Type of Annular Sealant Bentonite
 Type of Bentonite High-Yield
 Type of Sand Pack Coarse 20-20

Well Construction Materials

	Stainless Steel Type	PVC Specify Type	Other Specify Type
Riser Coupling Joint			
Riser Pipe Above w.t.		Sched.-40	
Riser Pipe Below w.t.			
Screen		Sched.-40	
Coupling Joint			
Screen to Riser		Sched.-40	
Protective Casing			Steel



Top of Protective Casing 99.61 ft.
 Top of riser pipe 99.36 ft.
 Ground surface 99.61 ft.
 Top of Annular Sealant 99.11 ft.
 Casing Stickup N/A

Top of Seal 99.11 ft.
 Total Seal interval 3.00 ft.
 Top of Sand 96.11 ft.
 Top of Screen 95.11 ft.

Total Screen Interval 10.0 ft.

Bottom of Screen 85.11 ft.
 Bottom of Borehole 84.61 ft.

Measurements

Riser Pipe Length	4.25 ft.
Screen Length	10.0 ft.
Screen Slot Size	10-slot
Protective Casing Length	N/A
Depth to Water	~8-10 ft. while drilling
Depth to Water	93.09 ft. static
Free Product Thickness	N/A
Gallons removed (develop)	N/A
Gallons removed (purge)	N/A
Other	

Completed by: BMW

Illinois Environmental Protection Agency

LUST Well Completion Report

Incident No. 2009-1397
 Site Name Huck's #131 / Maiers Grocery
 Drilling Contractor CW³M
 Driller CW³M
 Drilling Method Hollow Stem Auger

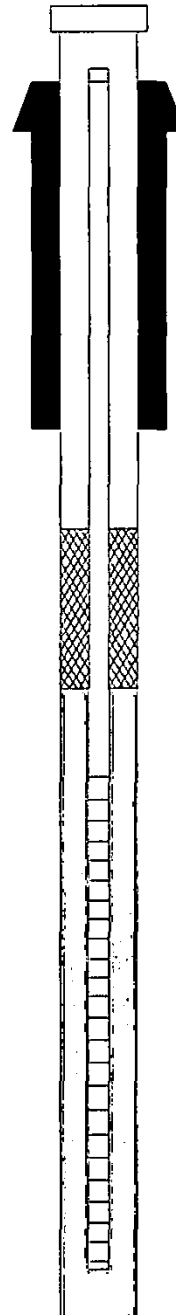
Well No. MW-10
 Date Drilled 11/21/2011
 Date Completed 11/21/2011
 Geologist MDR/JKT
 Drilling Fluids N/A

Annular Space Details

Type of Surface Seal Concrete
 Type of Annular Sealant Bentonite
 Type of Bentonite High-Yield
 Type of Sand Pack Coarse 20-20

Well Construction Materials

	Stainless Steel Type	PVC Specify Type	Other Specify Type
Riser Coupling Joint			
Riser Pipe Above w.t.		Sched.-40	
Riser Pipe Below w.t.			
Screen		Sched.-40	
Coupling Joint			
Screen to Riser		Sched.-40	
Protective Casing			Steel



Top of Protective Casing 99.66 ft.
 Top of riser pipe 99.41 ft.
 Ground surface 99.66 ft.
 Top of Annular Sealant 99.16 ft.
 Casing Stickup N/A

Top of Seal 99.16 ft.
 Total Seal interval 3.00 ft.
 Top of Sand 96.16 ft.
 Top of Screen 95.16 ft.

Total Screen Interval 10.0 ft.

Bottom of Screen 85.16 ft.
 Bottom of Borehole 84.66 ft.

Measurements

Riser Pipe Length	4.25 ft.
Screen Length	10.0 ft.
Screen Slot Size	10-slot
Protective Casing Length	N/A
Depth to Water	~8-10 ft. while drilling
Depth to Water	94.37 ft. static
Free Product Thickness	N/A
Gallons removed (develop)	N/A
Gallons removed (purge)	N/A
Other	

Completed by: BMW

Illinois Environmental Protection Agency

LUST Well Completion Report

Incident No. 2009-1397
 Site Name Huck's #131 / Maiers Grocery
 Drilling Contractor CW³M
 Driller CW³M
 Drilling Method Hollow Stem Auger

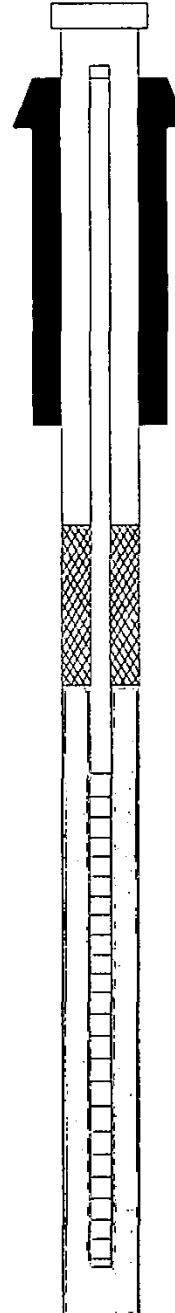
Well No. MW-11
 Date Drilled 11/21/2011
 Date Completed 11/21/2011
 Geologist MDR/JKT
 Drilling Fluids N/A

Annular Space Details

Type of Surface Seal Concrete
 Type of Annular Sealant Bentonite
 Type of Bentonite High-Yield
 Type of Sand Pack Coarse 20-20

Well Construction Materials

	Stainless Steel Type	PVC Specify Type	Other Specify Type
Riserc Coupling Joint			
Riser Pipe Above w.t.		Sched.-40	
Riser Pipe Below w.t.			
Screen		Sched.-40	
Coupling Joint Screen to Riser		Sched.-40	
Protective Casing			Steel



Top of Protective Casing 99.47 ft.
 Top of riser pipe 99.22 ft.
 Ground surface 99.47 ft.
 Top of Annular Sealant 98.97 ft.
 Casing Stickup N/A

Top of Seal 98.97 ft.
 Total Seal interval 3.00 ft.
 Top of Sand 95.97 ft.
 Top of Screen 94.97 ft.

Total Screen Interval 10.0 ft.

Bottom of Screen 84.97 ft.
 Bottom of Borehole 84.47 ft.

Measurements

Riser Pipe Length	4.25 ft.
Screen Length	10.0 ft.
Screen Slot Size	10-slot
Protective Casing Length	N/A
Depth to Water	~8-10 ft. while drilling
Depth to Water	91.80 ft. static
Free Product Thickness	N/A
Gallons removed (develop)	N/A
Gallons removed (purge)	N/A
Other	

Completed by: BMW

Illinois Environmental Protection Agency

LUST Well Completion Report

Incident No. 2009-1397
 Site Name Huck's #131 / Maiers Grocery
 Drilling Contractor CW³M
 Driller CW³M
 Drilling Method Hollow Stem Auger

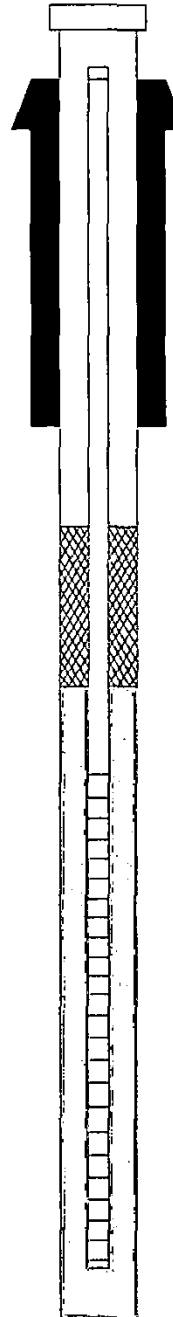
Well No. MW-12
 Date Drilled 11/21/2011
 Date Completed 11/21/2011
 Geologist MDR/JKT
 Drilling Fluids N/A

Annular Space Details

Type of Surface Seal Concrete
 Type of Annular Sealant Bentonite
 Type of Bentonite High-Yield
 Type of Sand Pack Coarse 20-20

Well Construction Materials

	Stainless Steel Type	PVC Specify Type	Other Specify Type
Riser Coupling Joint			
Riser Pipe Above w.t.		Sched.-40	
Riser Pipe Below w.t.			
Screen		Sched.-40	
Coupling Joint			
Screen to Riser		Sched.-40	
Protective Casing			Steel



Top of Protective Casing 99.24 ft.
 Top of riser pipe 98.99 ft.
 Ground surface 99.24 ft.
 Top of Annular Sealant 98.74 ft.
 Casing Stickup N/A

Top of Seal 98.74 ft.
 Total Seal interval 3.00 ft.
 Top of Sand 95.74 ft.
 Top of Screen 94.74 ft.

Measurements

Riser Pipe Length	4.25 ft.
Screen Length	10.0 ft.
Screen Slot Size	10-slot
Protective Casing Length	N/A
Depth to Water	~8-10 ft. while drilling
Depth to Water	91.83 ft. static
Free Product Thickness	N/A
Gallons removed (develop)	N/A
Gallons removed (purge)	N/A
Other	

Total Screen Interval 10.0 ft.

Bottom of Screen 84.74 ft.
 Bottom of Borehole 84.24 ft.

Completed by: BMW

APPENDIX E

ANALYTICAL RESULTS

**SITE INVESTIGATION
COMPLETION REPORT
HUCK'S #131 / MAIER'S GROCERY
CROSSVILLE, ILLINOIS**

**Maiers Grocery
Site Assessment Data**

EA - SOIL

	Location	1	2	3	4	5	6	7	8	9
	Date	1/28/2010	1/28/2010	1/28/2010	1/28/2010	1/28/2010	1/28/2010	1/28/2010	1/28/2010	1/28/2010
	Depth	6'	6'	6'	13'	13'	13'	13'	13'	13'
Parameter	Class I CUO									
Benzene	0.03	0.0052	0.0074	0.0055	0.0032	0.0027	0.0017	0.0072	0.016	<0.002
Ethylbenzene	13.0	0.0046	0.0042	0.011	0.0014	0.00046	0.00041	<0.002	<0.002	<0.002
Toluene	12.0	0.011	0.011	0.051	0.008	0.0029	0.0025	<0.002	<0.002	<0.002
Total Xylenes	5.6	0.0097	0.0091	0.051	0.0068	0.0024	0.0021	<0.002	<0.002	<0.002
TCLP lead	0.0075	0.026	0.019	0.016	<0.002	<0.002	<0.002	0.011	0.03	<0.002
MTBE	0.32	0.000662	<0.002	<0.002	<0.002	<0.002	0.00072	0.004	0.0025	0.0022

**Maiers Grocery
Site Assessment Data**

EA - SOIL

	Location	10	11	12	13	14	15	16
	Date	1/28/2010	1/28/2010	1/28/2010	1/28/2010	1/28/2010	1/28/2010	1/28/2010
	Depth	6'	6'	6'	6'	6'	6'	6'
Parameter	Class I CUO							
Benzene	0.03	0.032	1.9	<0.002	0.096	<0.002	0.0009	0.00095
Ethylbenzene	13.0	0.046	20.	<0.002	0.009	<0.002	<0.002	0.0019
Toluene	12.0	0.021	2.1	<0.002	0.048	<0.002	<0.002	0.003
Total Xylenes	5.6	0.16	95.	<0.002	0.018	<0.002	<0.002	0.01
TCLP lead	0.0075	0.023	0.018	0.018	0.02	0.0088	0.0084	0.0089
MTBE	0.32	0.0079	0.47	<0.002	0.011	<0.002	<0.002	<0.002

Huck's #131 / Maiers Grocery
 Site Assessment Data

Soil AET(6-2-10)

	Location	B-1	B-1	B-1	B-2	B-2	B-2	B-3	B-3	B-3
	Depth	2.5'	7.5'	12'	2.5'	7.5'	10'	2.5'	7.5'	10'
Parameter	Class I CUO									
Benzene	0.03	0.0029	0.0069	0.0024	<0.002	0.12	0.0016	0.002	0.006	0.0035
Ethylbenzene	13.0	0.0012	0.0055	0.0057	<0.002	0.022	<0.002	0.0005	0.0047	0.0026
Toluene	12.0	0.0046	0.015	0.0019	<0.002	0.0075	0.0018	0.0004	0.0006	0.0012
Total Xylenes	5.6	0.0024	0.012	0.0031	<0.002	0.044	0.0011	0.0015	0.0077	0.0048
MTBE	0.32	<0.002	<0.002	<0.002	<0.002	<0.002	0.0021	0.0037	0.002	<0.002
Lead TCLP	0.0075	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002

Huck's #131 / Maiers Grocery
Site Assessment Data

Soil AET(6-2-10)

	Location	B-4	B-4	B-4	B-5	B-5	
	Depth	2.5'	7.5'	10'	2.5'	7.5'	
Parameter	Class I CUO						
Benzene	0.03	<0.002	0.0018	0.0016	<0.002	0.0029	
Ethylbenzene	13.0	<0.002	0.0015	0.0014	<0.002	0.0031	
Toluene	12.0	<0.002	0.0042	0.0037	<0.002	0.0065	
Total Xylenes	5.6	<0.002	0.0031	0.0026	<0.002	0.0065	
MTBE	0.32	<0.002	<0.002	<0.002	<0.002	0.0006	
Lead TCLP	0.0075	<0.002	<0.002	0.018	<0.002	<0.002	

Huck's Maiers Grocery
Site Assessment Data

Groundwater AET(6-30-10)

	Location	MW-1	MW-2	MW-3	MW-4	MW-5	
	Date	6/30/2010	6/30/2010	6/30/2010	6/30/2010	6/30/2010	
Parameter	Class I CUO						
Benzene	0.005	<0.002	0.022	0.27	0.002	0.0086	
Ethylbenzene	0.7	<0.002	0.005	0.15	<0.002	0.004	
Toluene	1.0	<0.002	0.003	0.02	<0.002	<0.002	
Total Xylenes	10.0	<0.005	0.009	0.19	<0.005	0.013	
MTBE	0.1	0.018	0.04	0.12	0.044	0.034	

Huck's #131 / Maiers Grocery
Site Assessment Data

Soil 11-21-11

	Location	B-6	B-6	B-8	B-8	B-8	B-9	B-9	B-10	B-10
	Depth	2.5'	7.5'	2.5'	7.5'	12.5'	2.5'	7.5'	2.5'	7.5'
Parameter	Class I CUO									
Benzene	0.03	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	0.001	<0.002
Ethylbenzene	13.0	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Toluene	12.0	<0.002	0.005	<0.002	0.012	<0.002	<0.002	0.008	0.009	0.009
Total Xylenes	5.6	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
MTBE	0.32	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Lead TCLP	0.0075	0.009	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005

Huck's #131 / Maiers Grocery
 Site Assessment Data

Soil 11-21-11

	Location	B-11	B-11	B-12	B-12
	Depth	2.5'	7.5'	2.5'	7.5'
Parameter	Class I CUO				
Benzene	0.03	<0.002	<0.002	<0.002	<0.002
Ethylbenzene	13.0	<0.002	<0.002	<0.002	<0.002
Toluene	12.0	<0.002	0.007	<0.002	0.01
Total Xylenes	5.6	<0.005	<0.005	<0.005	<0.005
MTBE	0.32	<0.005	<0.005	<0.005	<0.005
Lead TCLP	0.0075	<0.005	<0.005	<0.005	<0.005

Huck's #131 / Maier's Grocery
Site Assessment Data

Stage 2/3 - Groundwater

	Location	MW-6	MW-8	MW-9	MW-10	MW-11	MW-12	
	Date	1/26/2012	1/26/2012	1/26/2012	1/26/2012	1/26/2012	1/26/2012	
Parameter	Class I CUO							
Benzene	0.005	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	
Ethylbenzene	0.7	0.155	<0.002	<0.002	0.082	<0.002	<0.002	
Toluene	1.0	0.356	<0.002	<0.002	0.111	0.005	<0.002	
Total Xylenes	10.0	0.741	<0.005	<0.005	0.242	0.015	<0.005	

Huck's #131 / Maiers Grocery
Site Assessment Data

Lead 8-15-13

	Location	L-1	L-1	L-2	L-2	L-3	L-3	
	Depth	2.5'	7.5'	2.5'	7.5'	2.5'	7.5'	
Parameter	Class I CUO							
Lead TCLP	0.0075	<0.0067	0.0071	<0.0067	<0.0067	<0.0067	0.0083	

Huck's #131 / Maiers Grocery
Site Assessment Data

Lead 11-18-13

	Location	L-4	L-4	L-5	L-5	
	Depth	2.5'	7.5'	2.5'	7.5'	
Parameter	Class I CUO					
Lead TCLP	0.0075	ND	ND	ND	ND	

SUBURBAN LABORATORIES, Inc.



INVOICE

FEIN # 36-2695636

4140 Litt Drive Hillside, Illinois 60162
 Tel. (708) 544-3260 • Toll Free (800) 783-LABS
 Fax (708) 544-8587
www.suburbanlabs.com

Remit To: Suburban Laboratories, Inc.
 4140 Litt Dr.
 Hillside, IL 60162-1183
 Phone: 708-544-3260 Fax: 708-544-8587

Invoice#: 30733
 Invoice Date: 8/31/2013
 Terms: NET90
 Invoice Due: 11/29/2013

Carol Rowe
 ACCOUNTS PAYABLE
 CWM Company, Inc
 701 West South Grand
 Springfield, IL 62704

Priority: Rush
 PO:
 Report To: Carol Rowe
 Fax: (217) 522-8009

Work Order: 1308B10

Date Received: 8/20/2013

Project: Maiers Grocery

Item Description	Matrix	Remarks	Qty	Unit Price	% Disc.	Net Price	Total
TCLP Lead by ICP	Soil	July 2013 - June 2014	6	\$123.14			\$738.84
DRY BULK DENSITY	Soil		1	\$26.20			\$26.20
ORGANIC MATTER & ORGANIC CAR	Soil		1	\$45.25			\$45.25
PARTICLE-SIZE ANALYSIS OF SOILS	Soil		1	\$172.70			\$172.70
PERCENT MOISTURE	Soil		1	\$14.29			\$14.29
SOIL PARTICLE DENSITY	Soil		1	\$172.70			\$172.70

Item	Unit	Qty	Total
Shipping & Handling	\$59.55	0	\$0.00
5035 Sampling Kit	\$11.91	0	\$0.00

Sub Total: \$1,169.98
 Misc. Charges: \$0.00
 Surcharge: 0.00%
INVOICE Total: \$1,169.98
 Pre-Paid Amount: \$0.00
Total Payable Amount: \$1,169.98

Comments: Terms per signed agreement

RECEIVED
 AUG - 3 2013
 BY: *CR*

Illinois Department of Public Health Accredited #17585



Illinois Environmental Protection Agency Accredited #100225

SUBURBAN LABORATORIES, Inc.



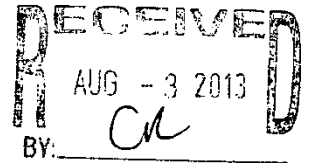
4140 Litt Drive Hillside, Illinois 60162
Tel. (708) 544-3260 • Toll Free (800) 783-LABS
Fax (708) 544-8587
www.suburbanlabs.com

August 31, 2013

Carol Rowe
CWM Company, Inc
701 West South Grand
Springfield, IL 62704

Workorder: 1308B10

TEL: (217) 522-8001
FAX: (217) 522-8009
RE: Maiers Grocery



Dear Carol Rowe:

Suburban Laboratories, Inc. received 7 sample(s) on 8/20/2013 for the analyses presented in the following report.

All data for the associated quality control (QC) met EPA, method, or internal laboratory specifications except where noted in the case narrative. If you are comparing these results to external QC specifications or compliance limits and have any questions, please contact us.

This final report of laboratory analysis consists of this cover letter, case narrative, analytical report, dates report, and any accompanying documentation on, but not limited to, chain of custody records, raw data, and letters of explanation or reliance. This report may not be reproduced, except in full, without the prior written approval of Suburban Laboratories, Inc.

If you have any questions regarding these test results, please call me at (708) 544-3260.

Sincerely,

Kelly Culhane
Project Manager
708-544-3260 ext. 212
kelly@suburbanlabs.com

Illinois Department of Public Health Accredited #17585



Illinois Environmental Protection Agency Accredited #100225



Suburban Laboratories, Inc.

4140 Litt Drive, Hillside, IL 60162 (708) 544-3260

Case Narrative

Client: CWM Company, Inc

Date: August 31, 2013

Project: Maiers Grocery

PO #:

WorkOrder: 1308B10

QC Level:

Temperature of samples upon receipt at SLI: 1 C

Chain of Custody #: 109368

General Comments:

- All results reported in wet weight unless otherwise indicated. (dry = Dry Weight)
- Sample results relate only to the analytes of interest tested and to sample as received by the laboratory.
- Environmental compliance sample results meet the requirements of 35 IAC Part 186 unless otherwise indicated.
- Waste water analysis follows the rules set forth in 40 CFR part 136 except where otherwise noted.
- Accreditation by the State of Illinois is not an endorsement or a guarantee of the validity of data generated.
- For more information about the laboratories' scope of accreditation, please contact us at (708) 544-3260 or the Agency at (217) 782-6455.

Abbreviations:

- Reporting Limit: The concentration at which an analyte can be routinely detected on a day to day basis, and which also meets regulatory and client needs.
- Quantitation Limit: The lowest concentration at which results can be accurately quantitated.
- J: The analyte was positively identified above our Method Detection Limit and is considered detectable and usable; however, the associated numerical value is the approximate concentration of the analyte in the sample.
- ATC: Automatic Temperature Correction. - TNTC: Too Numerous To Count
- In Laboratory: EPA recommends this analyte be analyzed "immediately" (e.g., tests that should be performed in the field within 15 minutes of collection). Analytes with "immediate" hold times are analyzed as soon as possible upon receipt by the laboratory.
- TIC: Tentatively Identified Compound (GCMS library search identification, concentration estimated to nearest internal standard).
- SS (Surrogate Standard): Quality control compound added to the sample by the lab.

Method References:

For a complete list of method references please contact us.

- E: USEPA Reference methods
- SW: USEPA, Test Methods for Evaluating Solid Waste (SW-846)
- M: Standard Methods for the Examination of Water and Wastewater
- USP: Latest version of United States Pharmacopeia

RECEIVED
AUG - 3 2013
BY: *OR*

Workorder Specific Comments:



Suburban Laboratories, Inc.

4140 Litt Drive, Hillside, IL 60162 (708) 544-3260

Laboratory Results

Client ID: CWM Company, Inc
Project Name: Maiers Grocery

Report Date: August 31, 2013
Workorder: 1308B10

Client Sample ID: L-3 7.5

Lab ID: 1308B10-006

Date Received: 08/20/2013 9:45 AM

Matrix: SOIL

Collection Date: 08/15/2013 12:00 AM

Parameter	Result	Report Limit	Qual.	Units	Dilution Factor	Date Analyzed	Batch ID
METALS BY ICP, TCLP LEACHED		Method: EPA-1311/6010B-Rev 2, Dec-96		Analyst: jmk			
Lead	0.0083	0.0067	J	mg/L	1	08/22/2013 1:02 PM	17102

Client Sample ID: TACO

Lab ID: 1308B10-007

Date Received: 08/20/2013 9:45 AM

Matrix: SOIL

Collection Date: 08/15/2013 12:00 AM

Parameter	Result	Report Limit	Qual.	Units	Dilution Factor	Date Analyzed	Batch ID
DRY BULK DENSITY		Method: ASTM-D2937-Rev 2004		Analyst: car			
Soil Bulk Density (Pb)	1.398	0	c	g/cm ³	1	08/21/2013 2:16 PM	R38013
ORGANIC MATTER & ORGANIC CARBON CONTENT		Method: ASTM-D2974-Rev 2000		Analyst: car			
FOM-Organic Matter (@ 440 C)	0.0109	0.00100		g/g	1	08/21/2013 2:58 PM	R38018
FOC-Organic Carbon (0.58 Factor)	0.00630	0.00100		g/g	1	08/21/2013 2:58 PM	R38018
PARTICLE-SIZE ANALYSIS OF SOILS		Method: ASTM-D422-Rev 1963		Analyst: mkl			
Particle Density	Complete	0	c		1	08/29/2013 12:00 AM	R38325
Sieve Analysis	Complete	0	c		1	08/29/2013 12:00 AM	R38325
SOIL PARTICLE DENSITY		Method: ASTM-D854-Rev 2000		Analyst: mkl			
Soil Particle Density (Ps)	2.523	0	c	g/cm ³	1	08/22/2013 2:37 PM	R38069
PERCENT MOISTURE		Method: ASTM-D2216-Rev 2005		Analyst: car			
Percent Moisture	23	1.0		wt%	1	08/21/2013 2:58 PM	R38018

RECEIVED
AUG - 3 2013
BY: *CR*



SUBURBAN LABORATORIES, Inc.
 4140 Litt Drive · Hillside, Illinois 60162-1183
 Tel. (708) 544-3260 · Toll Free (800) 783-LABS · Fax (708) 544-8587
www.suburbanlabs.com




SLI Work Order: 1308B10-
 SLI Sample ID: 1308B10-007A

Analysis Date: 8/27/2013

Standard Test Method for Particle-Size Analysis of Soil


		Percent Retained
Sieve (U.S.)	Sieve Opening (mm)	1308B10-007A
1-1/2"	38.1	0.00%
1"	25.4	0.00%
0.75"	19.1	0.0%
No. 4	4.75	0.1%
No. 10	2.00	2.6%
No. 20	0.85	15.5%
No. 40	0.420	13.1%
No. 60	0.250	9.6%
No. 140	0.106	6.6%
No. 200	0.075	1.7%

		Percent Present
Particle(s)	Particle Size (mm)	1308B10-007A
Gravel	>4.75	0.1%
Sand, Course	4.74-2.0	2.6%
Sand, Medium	1.99-0.420	28.6%
Sand, Fine	0.419-0.075	17.8%
Silt	0.074-0.005	42.2%
Clay	<0.005-0.001	2.8%
Colloids	<0.001	5.8%

Analyst: _____
 Reviewed:  Digitally signed by Monica Zupan
 Reason: I have reviewed this document
 Date: 2013.08.29 10:21:50 -0500

Date: _____

Date: _____

RECEIVED
 AUG - 3 2013
 BY: 



SUBURBAN LABORATORIES, Inc.
4140 Litt Drive · Hillside, Illinois 60162-1183
Tel. (708) 544-3260 · Toll Free (800) 783-LABS · Fax (708) 544-8587
www.suburbanlabs.com

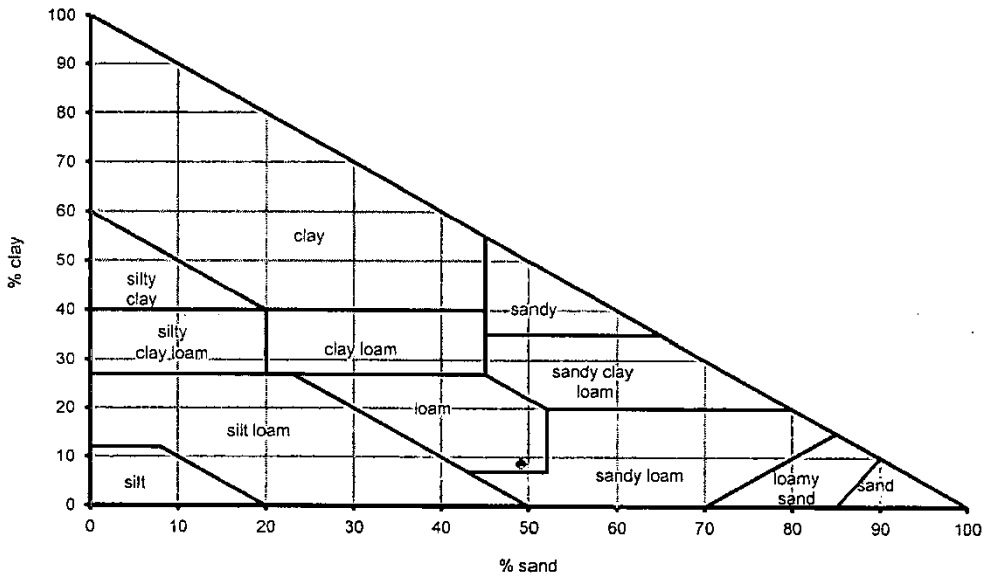


SLI Work Order: 1308B10-
SLI Sample ID: 1308B10-007A

Analysis Date: 8/27/2013

% SAND	% CLAY	% SILT
49.1	8.6	42.21

Soil Classification: Loam



Textural triangle by A. Gerakis and B. Baer, 26 July 2000.

RECEIVED
AUG - 30 2013
BY: CR



Suburban Laboratories, Inc.

4140 Litt Drive, Hillside, IL 60162 (708) 544-3260

PREP DATES REPORT

Client: CWM Company, Inc
Project: Maiers Grocery

Report Date: August 31, 2013
Lab Order: 1308B10

Sample ID	Collection Date	Batch ID	Prep Method	Prep Test Name	TCLP Date	Prep Date
1308B10-001A	8/15/2013	17102	200.2_ICPT_PR	AQUEOUS PREP TOTAL METALS: ICP		8/21/2013
		17080	1311LM	TCLP SAMPLE PREP (Metals)		8/20/2013
1308B10-002A	8/15/2013	17102	200.2_ICPT_PR	AQUEOUS PREP TOTAL METALS: ICP		8/21/2013
		17080	1311LM	TCLP SAMPLE PREP (Metals)		8/20/2013
1308B10-003A	8/15/2013	17102	200.2_ICPT_PR	AQUEOUS PREP TOTAL METALS: ICP		8/21/2013
		17080	1311LM	TCLP SAMPLE PREP (Metals)		8/20/2013
1308B10-004A	8/15/2013	17102	200.2_ICPT_PR	AQUEOUS PREP TOTAL METALS: ICP		8/21/2013
		17080	1311LM	TCLP SAMPLE PREP (Metals)		8/20/2013
1308B10-005A	8/15/2013	17102	200.2_ICPT_PR	AQUEOUS PREP TOTAL METALS: ICP		8/21/2013
		17080	1311LM	TCLP SAMPLE PREP (Metals)		8/20/2013
1308B10-006A	8/15/2013	17102	200.2_ICPT_PR	AQUEOUS PREP TOTAL METALS: ICP		8/21/2013
		17080	1311LM	TCLP SAMPLE PREP (Metals)		8/20/2013

RECEIVED
AUG - 3 2013
BY: *CR*



Suburban Laboratories, Inc.

4140 Litt Drive, Hillside, IL 60162 (708) 544-3260

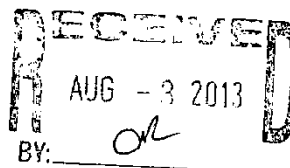
Qualifier Definitions

WO#: 1308B10

Date: 8/31/2013

Qualifiers:

- *x Value exceeds Maximum Contaminant Level
- B Analyte detected in the associated Method Blank
- c Analyte not in SLI scope of accreditation
- E Estimated, detected above quantitation range
- G Refer to case narrative page for specific comments
- H Holding times for preparation or analysis exceeded
- J Analyte detected below quantitation limit (QL)
- N Tentatively identified compounds
- ND Not Detected at the Reporting Limit
- P Present
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits





SUBURBAN LABORATORIES, Inc.

4140 Litt Drive Hillside, IL 60162 Tel. 708.544.3260 Fax: 708.544.8587 Toll Free: 800.783.LABS www.suburbanlabs.com

CHAIN OF CUSTODY RECORD # 109368

Company Name CWM Company, Inc.		TURNAROUND TIME REQUESTED <input type="checkbox"/> Normal <input type="checkbox"/> RUSH* *Additional Rush Charges Approved.		ANALYSIS & METHOD REQUESTED Enter an "X" in box below for request		Page 1 of 1							
Company Address 701 West South Grand Ave.		*Date & Time Needed:		Shipping Method		PO No.							
City Springfield	State IL	Zip 62764	Normal TAT is specified on the price quotation or fee schedule. Rush work must be pre-approved and additional charges apply.		Reporting Level (at additional charge) 1 2 3 4		LAB USE ONLY						
Phone 217 522 8001	Fax 522-8009	<input type="checkbox"/> Fax Report	Specify Regulatory Program: <input type="checkbox"/> None/Info Only (Required)		SL ORDER No. 1308310		Sample containers supplied by customer? <input type="checkbox"/> Yes						
Email Address CWM@CWMCompany.com		Final Report will be emailed		<input checked="" type="checkbox"/> LUST <input type="checkbox"/> SRP <input type="checkbox"/> SDWA <input type="checkbox"/> 503 Sludge <input type="checkbox"/> NPDES <input type="checkbox"/> MWRDGC <input type="checkbox"/> Disposal <input type="checkbox"/> Other* *Please specify in comment section below.		Temperature of Received Samples 1 °C		Samples received the same day as collection? <input type="checkbox"/> Yes					
Project ID / Location Maier's Grocery		Project Manager (Report to) Carol Rowe		TCLP LEAD Bulk Density Moisture FOC Particle Density/Sieve Specific Gravity		R		Condition		Spill		LAB #	
Sample Collector(s) Name MDR													

SAMPLE IDENTIFICATION *Use One Line Per Preservation & Container Type*	COLLECTION		MATRIX	GRAB/COMP.	CONTAINERS		PRESERVATIVE	TCLP LEAD	Bulk Density	Moisture	FOC	Particle Density/Sieve	Specific Gravity	R	Condition	Spill	LAB #
	DATE	TIME			Qty	SIZE & TYPE											
1 L-1 2.5'	8/15/13		S		2	4oz	None	X									1A
2 L-1 7.5'								X									2A
3 L-2 2.5'								X									3A
4 L-2 7.5'								X									4A
5 L-3 2.5'								X									5A
6 L-3 7.5'								X									6A
7 TACO					1	4oz			X	X	X	X	X				7A, B
8																	
9																	
10																	
11																	
12																	

MATRIX: Drinking Water (DW), Soil (S), Waste Water (WW), Surface Water (SW), Ground Water (GW), Solid Waste (WA), Sludge (U), Wipe (P) CONTAINER: 2oz, 4oz, 8oz, 40ml Vial, 500ml, Liter (L), Tube, Glass (G), Plastic (P) PRESERVATIVE: H₂SO₄, HCl, HNO₃, Methanol (MeOH), NaOH, Sodium Bisulfate (NaB), NaThio

COMMENTS & SPECIAL INSTRUCTIONS:

Rates 2003-2014

RECEIVED
AUG - 3 2013
BY: *on*

- CONDITION CODES
- Improper/damaged container/cap
 - Improper preservation
 - Insufficient sample volume
 - Headspace/air bubbles for VOCs
 - Received past holding time
 - Received frozen
 - Label conflicts with COC

1. Relinquished By <i>[Signature]</i>	Date 8-19-13	2. Relinquished By <i>[Signature]</i>	Date 8-20-13	3. Relinquished By	Date	4. Relinquished By	Date
Received By <i>[Signature]</i>	Time 8:30 AM	Received By <i>[Signature]</i>	Time 9:45	Received By	Time	Received By	Time

Submission of samples subject to Terms and Conditions on back. Rev. 07/20/08 White-Original, Pink-Sampler Copy



Illinois Environmental Protection Agency

Bureau of Land • 1021 N. Grand Avenue E. • P.O. Box 19276 • Springfield • Illinois • 62794-9276

The Agency is authorized to require this information under Section 4 and Title XVI of the Environmental Protection Act (415 ILCS 5/4, 5/57 – 57.17). Failure to disclose this information may result in a civil penalty of not to exceed \$50,000.00 for the violation and an additional civil penalty of not to exceed \$10,000.00 for each day during which the violation continues (415 ILCS 5/42). Any person who knowingly makes a false material statement or representation, orally or in writing, in any label, manifest, record, report, permit, or license, or other document filed, maintained or used for the purpose of compliance with Title XVI commits a Class 4 felony. Any second or subsequent offense after conviction hereunder is a Class 3 felony (415 ILCS 5/44 and 57.17). This form has been approved by the Forms Management Center.

Leaking Underground Storage Tank Program Laboratory Certification for Physical Soil Analysis

RECEIVED
SEP 1 2006
BY: CR

A. Site Identification

IEMA Incident # (6- or 8-digit): 09-1397 IEPA LPC# (10-digit): _____
Site Name: Maries Grocery
Site Address (Not a P.O. Box): Main St Rt. 1
City: Crossville County: _____ ZIP Code: _____

Leaking UST Technical File

B. Sample Collector

I certify that:

1. Samples were collected using ASTM procedures.
2. Chain-of-custody procedures were followed in the field.
3. Sample integrity was maintained by proper preservation.
4. All samples were properly labeled.

MR
(Initial)
MR
(Initial)
MR
(Initial)
MR
(Initial)

C. Laboratory Representative

I certify that:

1. Proper chain-of-custody procedures were followed as documented on the chain-of-custody forms
2. Sample integrity was maintained by proper preservation.
3. All samples were properly labeled.
4. Quality assurance/quality control procedures were established and carried out.
5. The test methods specified in the ASTM Standard D 422-63 or or D 1140-54 were used for particle size analysis.

RA
(Initial)
RP
(Initial)
RP
(Initial)
RP
(Initial)
RP
(Initial)

6. The test methods specified in ASTM Standards D 2216-90 or D 4643-87 were used for soil moisture content.

RP
(Initial)

7. The test methods specified in ASTM Standards D 2487-90 or D 2488-90 were used for soil classification.

RP
(Initial)

8. The test methods specified in ASTM Standards D 5084-90 or D 4525-90 were used for hydraulic conductivity.

RP
(Initial)

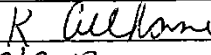
D. Signatures

I hereby affirm that all information contained in this form is true and accurate to the best of my knowledge and belief. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Sample Collector

Name Matt Rives
Title Engineer
Company CWM Company, Inc.
Address 701 South Grand Ave. West
City Springfield
State IL
Zip Code 62704
Phone 217-522-8001
Signature 
Date 8-15-13

Laboratory Representative

Name Kelly Culhane
Title Project Manager
Company Suburban Laboratories, Inc.
Address 414- Litt Drive
City Hillside
State IL
Zip Code 62704
Phone 708-544-3260
Signature 
Date 9/3/2013

RECEIVED
SEP - 7 2013
BY: CR

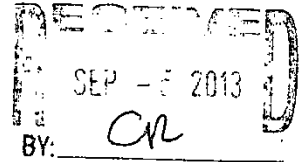


Illinois Environmental Protection Agency

Bureau of Land • 1021 N. Grand Avenue E. • P.O. Box 19276 • Springfield • Illinois • 62794-9276

The Agency is authorized to require this information under Section 4 and Title XVI of the Environmental Protection Act (415 ILCS 5/4, 5/57 – 57.17). Failure to disclose this information may result in a civil penalty of not to exceed \$50,000.00 for the violation and an additional civil penalty of not to exceed \$10,000.00 for each day during which the violation continues (415 ILCS 5/42). Any person who knowingly makes a false material statement or representation, orally or in writing, in any label, manifest, record, report, permit, or license, or other document filed, maintained or used for the purpose of compliance with Title XVI commits a Class 4 felony. Any second or subsequent offense after conviction hereunder is a Class 3 felony (415 ILCS 5/44 and 57.17). This form has been approved by the Forms Management Center.

Leaking Underground Storage Tank Program Laboratory Certification for Chemical Analysis



A. Site Identification

IEMA Incident # (6- or 8-digit): 09-1397 IEPA LPC# (10-digit): _____
Site Name: Maiers Grocery
Site Address (Not a P.O. Box): 600 Main St 3 Rt. 1
City: Grossville County: _____ ZIP Code: _____

Leaking UST Technical File

B. Sample Collector

I certify that:

1. Appropriate sampling equipment/methods were utilized to obtain representative samples.
2. Chain-of-custody procedures were followed in the field.
3. Sample integrity was maintained by proper preservation.
4. All samples were properly labeled.

MR
(Initial)
MR
(Initial)
MR
(Initial)
MR
(Initial)

C. Laboratory Representative

I certify that:

1. Proper chain-of-custody procedures were followed as documented on the chain-of-custody forms
2. Sample integrity was maintained by proper preservation.
3. All samples were properly labeled.
4. Quality assurance/quality control procedures were established and carried out.
5. Sample holding times were not exceeded.

RP
(Initial)
RP
(Initial)
RP
(Initial)
RP
(Initial)
RP
(Initial)

6. SW-846 Analytical Laboratory Procedure (USEPA) methods were used for the analyses.
7. An accredited lab performed quantitative analysis using test methods identified in 35 IAC 186.180 (for samples collected on or after January 1, 2003).

CR
(Initial)

RR
(Initial)

D. Signatures

I hereby affirm that all information contained in this form is true and accurate to the best of my knowledge and belief. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Sample Collector

Name Matt Rives

Title Engineer

Company CWM Company, Inc.

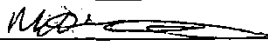
Address 701 South Grand Ave. West

City Springfield

State IL

Zip Code 62704

Phone 217-522-8001

Signature 

Date 8-15-13

Laboratory Representative

Name Kelly Culhane

Title Project Manager

Company Suburban Laboratories, Inc.


Address 414- Litt Drive

City Hillside

State IL

Zip Code 62704

Phone 708-544-3260

Signature 

Date 9/3/2013

RECEIVED
SEP - 5 2013
BY: CR

SUBURBAN LABORATORIES, Inc.



INVOICE
FEIN # 36-2695636

1950 S. Batavia Ave., Suite 150 Geneva, Illinois 60134
Tel. (708) 544-3260 • Toll Free (800) 783-LABS
Fax (708) 544-8587
www.suburbanlabs.com

Remit To: Suburban Laboratories, Inc.
1950 S. Batavia Ave., Suite 150
Geneva, IL 60134
Phone: 708-544-3260 Fax: 708-544-8587

Invoice#: 33321
Invoice Date: 12/3/2013

Terms: NET90
Invoice Due: 3/3/2014

Carol Rowe
ACCOUNTS PAYABLE
CWM Company, Inc
701 West South Grand
Springfield, IL 62704

Priority: Rush
PO:
Report To: Carol Rowe
Fax: (217) 522-8009
Project: Hucks Maiers Grocery - Crossville

Work Order: 1311C71

Date Received: 11/25/2013

Item Description	Matrix	Remarks	Qty	Unit Price	% Disc.	Net Price	Total
TCLP Lead by ICP	Soil	July 2013 - June 2014	4	\$123.14			\$492.56

Miscellaneous Charge Summary

Item	Unit	Qty	Total
Shipping & Handling	\$59.55	1	\$59.55
5035 Sampling Kit	\$11.91	4	\$47.64

Sub Total: \$492.56
Misc. Charges: \$107.19
Surcharge: 0.00%
INVOICE Total: \$599.75
Pre-Paid Amount: \$0.00
Total Payable Amount: \$599.75

Comments: Terms per signed agreement

RECEIVED
DEC - 4 2013
BY: *CR*

Illinois Department of Public Health Accredited #17585



Illinois Environmental Protection Agency Accredited #100225

Page 1 of 1

Rpt Ver: kelly 12/3/2013 1:57 PM

1 of 1

SUBURBAN LABORATORIES, Inc.



1950 S. Batavia Ave., Suite 150 Geneva, Illinois 60134
Tel. (708) 544-3260 • Toll Free (800) 783-LABS
Fax (708) 544-8587
www.suburbanlabs.com

December 03, 2013

Carol Rowe
CWM Company, Inc
701 West South Grand
Springfield, IL 62704

Workorder: 1311C71

TEL: (217) 522-8001
FAX: (217) 522-8009
RE: Hucks Maiers Grocery - Crossville

RECEIVED
DEC - 4 2013
BY: *CR*

Dear Carol Rowe:

Suburban Laboratories, Inc. received 4 sample(s) on 11/25/2013 for the analyses presented in the following report.

All data for the associated quality control (QC) met EPA, method, or internal laboratory specifications except where noted in the case narrative. If you are comparing these results to external QC specifications or compliance limits and have any questions, please contact us.

This final report of laboratory analysis consists of this cover letter, case narrative, analytical report, dates report, and any accompanying documentation on, but not limited to, chain of custody records, raw data, and letters of explanation or reliance. This report may not be reproduced, except in full, without the prior written approval of Suburban Laboratories, Inc.

If you have any questions regarding these test results, please call me at (708) 544-3260.

Sincerely,

Kelly Culhane

Kelly Culhane
Project Manager
708-544-3260 ext. 212
kelly@suburbanlabs.com

Illinois Department of Public Health Accredited #17585



Illinois Environmental Protection Agency Accredited #100225



Suburban Laboratories, Inc.

1950 S. Batavia Ave., Suite 150, Geneva, IL 60134 (708) 544-3260

Case Narrative

Client: CWM Company, Inc

Date: December 03, 2013

Project: Hucks Maiers Grocery - Crossville

PO #:

WorkOrder: 1311C71

QC Level:

Temperature of samples upon receipt at SLI: 4 C

Chain of Custody #: 107315

General Comments:

- All results reported in wet weight unless otherwise indicated. (dry = Dry Weight)
- Sample results relate only to the analytes of interest tested and to sample as received by the laboratory.
- Environmental compliance sample results meet the requirements of 35 IAC Part 186 unless otherwise indicated.
- Waste water analysis follows the rules set forth in 40 CFR part 136 except where otherwise noted.
- Accreditation by the State of Illinois is not an endorsement or a guarantee of the validity of data generated.
- For more information about the laboratories' scope of accreditation, please contact us at (708) 544-3260 or the Agency at (217) 782-6455.

Abbreviations:

- Reporting Limit: The concentration at which an analyte can be routinely detected on a day to day basis, and which also meets regulatory and client needs.
- Quantitation Limit: The lowest concentration at which results can be accurately quantitated.
- J: The analyte was positively identified above our Method Detection Limit and is considered detectable and usable; however, the associated numerical value is the approximate concentration of the analyte in the sample.
- ATC: Automatic Temperature Correction. - TNTC: Too Numerous To Count
- In Laboratory: EPA recommends this analyte be analyzed "immediately" (e.g., tests that should be performed in the field within 15 minutes of collection). Analytes with "immediate" hold times are analyzed as soon as possible upon receipt by the laboratory.
- TIC: Tentatively Identified Compound (GCMS library search identification, concentration estimated to nearest internal standard).
- SS (Surrogate Standard): Quality control compound added to the sample by the lab.

Method References:

For a complete list of method references please contact us.

- E: USEPA Reference methods
- SW: USEPA, Test Methods for Evaluating Solid Waste (SW-846)
- M: Standard Methods for the Examination of Water and Wastewater
- USP: Latest version of United States Pharmacopeia

RECEIVED
DEC - 4 2013
BY: CR

Workorder Specific Comments:



Suburban Laboratories, Inc.
1950 S. Batavia Ave., Suite 150, Geneva, IL 60134 (708) 544-3260

PREP DATES REPORT

Client: CWM Company, Inc
Project: Hucks Maiers Grocery - Crossville

Report Date: December 03, 2013
Lab Order: 1311C71

Sample ID	Collection Date	Batch ID	Prep Method	Prep Test Name	TCLP Date	Prep Date
1311C71-001A	11/18/2013 12:20:00	19029	200.2_ICPT_PR	AQUEOUS PREP TOTAL METALS: ICP		11/27/2013
		19009	1311LMLow	TCLP SAMPLE PREP (Metals Low Level)		11/26/2013
1311C71-002A	11/18/2013 12:30:00	19029	200.2_ICPT_PR	AQUEOUS PREP TOTAL METALS: ICP		11/27/2013
		19009	1311LMLow	TCLP SAMPLE PREP (Metals Low Level)		11/26/2013
1311C71-003A	11/18/2013 12:40:00	19029	200.2_ICPT_PR	AQUEOUS PREP TOTAL METALS: ICP		11/27/2013
		19009	1311LMLow	TCLP SAMPLE PREP (Metals Low Level)		11/26/2013
1311C71-004A	11/18/2013 12:50:00	19029	200.2_ICPT_PR	AQUEOUS PREP TOTAL METALS: ICP		11/27/2013
		19009	1311LMLow	TCLP SAMPLE PREP (Metals Low Level)		11/26/2013

RECEIVED
DEC 4 2013
BY: *CR*



Suburban Laboratories, Inc.

1950 S. Batavia Ave., Suite 150, Geneva, IL 60134 (708) 544-3260

Qualifier Definitions

WO#: 1311C71

Date: 12/3/2013

Qualifiers:

- *X Value exceeds Maximum Contaminant Level
- B Analyte detected in the associated Method Blank
- c Analyte not in SLI scope of accreditation
- E Estimated, detected above quantitation range
- G Refer to case narrative page for specific comments
- H Holding times for preparation or analysis exceeded
- J Analyte detected below quantitation limit (QL)
- N Tentatively identified compounds
- ND Not Detected at the Reporting Limit
- P Present
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

RECEIVED
DEC - 4 2013
BY: CR



Illinois Environmental Protection Agency

Bureau of Land • 1021 N. Grand Avenue E. • P.O. Box 19276 • Springfield • Illinois • 62794-9276

The Agency is authorized to require this information under Section 4 and Title XVI of the Environmental Protection Act (415 ILCS 5/4, 5/57 – 57.17). Failure to disclose this information may result in a civil penalty of not to exceed \$50,000.00 for the violation and an additional civil penalty of not to exceed \$10,000.00 for each day during which the violation continues (415 ILCS 5/42). Any person who knowingly makes a false material statement or representation, orally or in writing, in any label, manifest, record, report, permit, or license, or other document filed, maintained or used for the purpose of compliance with Title XVI commits a Class 4 felony. Any second or subsequent offense after conviction hereunder is a Class 3 felony (415 ILCS 5/44 and 57.17). This form has been approved by the Forms Management Center.

Leaking Underground Storage Tank Program Laboratory Certification for Chemical Analysis

RECEIVED
DEC - 7 2013
BY: CR

A. Site Identification

IEMA Incident # (6- or 8-digit): 2009-1397 IEPA LPC# (10-digit): 1930155021
Site Name: HUCK'S # 131 / MAIER'S GROCERY
Site Address (Not a P.O. Box): 109 SOUTH STATE ST.
City: CROSSVILLE County: WHITE ZIP Code: 62821

Leaking UST Technical File

B. Sample Collector

I certify that:

- Appropriate sampling equipment/methods were utilized to obtain representative samples. BW
(Initial)
- Chain-of-custody procedures were followed in the field. BW
(Initial)
- Sample integrity was maintained by proper preservation. BW
(Initial)
- All samples were properly labeled. BW
(Initial)

C. Laboratory Representative

I certify that:

- Proper chain-of-custody procedures were followed as documented on the chain-of-custody forms KA
(Initial)
- Sample integrity was maintained by proper preservation. KA
(Initial)
- All samples were properly labeled. KA
(Initial)
- Quality assurance/quality control procedures were established and carried out. KA
(Initial)
- Sample holding times were not exceeded. KA
(Initial)

6. SW-846 Analytical Laboratory Procedure (USEPA) methods were used for the analyses.

RA
(Initial)

7. An accredited lab performed quantitative analysis using test methods identified in 35 IAC 186.180 (for samples collected on or after January 1, 2003).

RA
(Initial)

D. Signatures

I hereby affirm that all information contained in this form is true and accurate to the best of my knowledge and belief. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Sample Collector

Name BRAD WALWER
Title ENGINEER
Company CWM Company, Inc.
Address 701 W. South Grand Avenue
City Springfield
State Illinois
Zip Code 62704
Phone (217) 522-8001
Signature *Brad Walwer*
Date 11-18-13

Laboratory Representative

Name Kelly Culhane
Title Project Manager
Company Suburban Laboratories, Inc.
Address 1950 S. Batavia Ave Ste 150
City Geneva
State Illinois
Zip Code 60134
Phone 708-544-3260
Signature *K Culhane*
Date 12/3/13

RECEIVED
DEC - 7 2013
BY: CR

APPENDIX F

STAGE 2/3 ACTUAL COSTS

**SITE INVESTIGATION
COMPLETION REPORT
HUCK'S #131 / MAIER'S GROCERY
CROSSVILLE, ILLINOIS**

Owner/Operator and Licensed Professional Engineer/Geologist Budget Certification Form

I hereby certify that I intend to seek payment from the UST Fund for costs incurred while performing corrective action activities for Leaking UST incident 2009-1397. I further certify that the costs set forth in this budget are for necessary activities and are reasonable and accurate to the best of my knowledge and belief. I also certify that the costs included in this budget are not for corrective action in excess of the minimum requirements of 415 ILCS 5/57, no costs are included in this budget that are not described in the corrective action plan, and no costs exceed Subpart H: Maximum Payment Amounts, Appendix D Sample Handling and Analysis amounts, and Appendix E Personnel Titles and Rates of 35 Ill. Adm. Code 732 or 734. I further certify that costs ineligible for payment from the Fund pursuant to 35 Ill. Adm. Code 732.606 or 734.630 are not included in the budget proposal or amendment. Such ineligible costs include but are not limited to:

- Costs associated with ineligible tanks.
- Costs associated with site restoration (e.g., pump islands, canopies).
- Costs associated with utility replacement (e.g., sewers, electrical, telephone, etc.).
- Costs incurred prior to IEMA notification.
- Costs associated with planned tank pulls.
- Legal fees or costs.
- Costs incurred prior to July 28, 1989.
- Costs associated with installation of new USTs or the repair of existing USTs.

RECEIVED

Owner/Operator: Martin & Bayley, Inc.

JUN 23 2014

Authorized Representative: Troy Dietz

Title: Director of Petroleum

Signature: *Troy Dietz*

Date: 7/13/2014

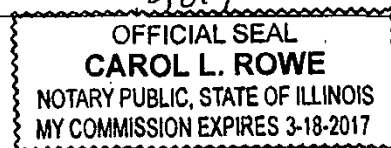
EPA/BOL

Subscribed and sworn to before me the 13th day of April, 2014

[Signature]

Seal:

(Notary Public)



In addition, I certify under penalty of law that all activities that are the subject of this plan, budget, or report were conducted under my supervision or were conducted under the supervision of another Licensed Professional Engineer or Licensed Professional Geologist and reviewed by me; that this plan, budget, or report and all attachments were prepared under my supervision; that, to the best of my knowledge and belief, the work described in the plan, budget, or report has been completed in accordance with the Environmental Protection Act [415 ILCS 5], 35 Ill. Adm. Code 732 or 734, and generally accepted standards and practices of my profession; and that the information presented is accurate and complete. I am aware there are significant penalties for submitting false statements or representations to the Illinois EPA, including but not limited to fines, imprisonment, or both as provided in Sections 44 and 57.17 of the Environmental Protection Act [415 ILCS 5/44 and 57.17].

L.P.E./L.P.G.: Vince E. Smith

L.P.E./L.P.G. Seal:

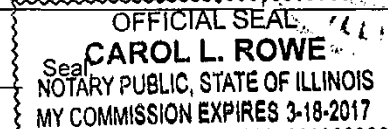
L.P.E./L.P.G. Signature: *Vince E. Smith*

Date: 6/23/2014

Subscribed and sworn to before me the 23rd day of June, 2014

[Signature]

(Notary Public)



The Illinois EPA is authorized to require this information under 415 ILCS 5/1. Disclosure of this information is required. Failure to do so may result in the delay or denial of any budget or payment requested hereunder.



Illinois Environmental Protection Agency

Bureau of Land • 1021 N. Grand Avenue E. • P.O. Box 19276 • Springfield • Illinois • 62794-9276

General Information for the Budget and Billing Forms

LPC #: 1930155021 County: White

City: Crossville Site Name: Huck's #131 / Maier's Grocery

Site Address: 109 South State Street

IEMA Incident No.: 20091397

IEMA Notification Date: Dec 16, 2009

Date this form was prepared: Jan 21, 2014

This form is being submitted as a (check one, if applicable):

- Budget Proposal
- Budget Amendment (Budget amendments must include only the costs over the previous budget.)
- Billing Package

Please provide the name(s) and date(s) of report(s) documenting the costs requested:

Name(s): _____

Date(s): _____

RECEIVED

JUN 23 2014

IEPA/BOL

This package is being submitted for the site activities indicated below:

35 III. Adm. Code 734:

- Early Action
- Free Product Removal after Early Action
- Site Investigation Stage 1: Stage 2: Stage 3:
- Corrective Action Actual Costs Actual Actual

35 III. Adm. Code 732:

- Early Action
- Free Product Removal after Early Action
- Site Classification
- Low Priority Corrective Action
- High Priority Corrective Action

35 III. Adm. Code 731:

- Site Investigation
- Corrective Action

General Information for the Budget and Billing Forms

The following address will be used as the mailing address for checks and any final determination letters regarding payment from the Fund.

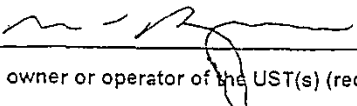
Pay to the order of: Martin & Bayley, Inc.

Send in care of: CWM Company, Inc.

Address: P.O. Box 385

City: Carmi State: Illinois Zip: 62821

The payee is the: Owner Operator (Check one or both.)


Signature of the owner or operator of the UST(s) (required)

If you have a change of address, [click here](#) to print off a W-9 Form.

Number of petroleum USTs in Illinois presently owned or operated by the owner or operator; any subsidiary, parent or joint stock company of the owner or operator; and any company owned by any parent, subsidiary or joint stock company of the owner or operator:

Fewer than 101: 101 or more:

Number of USTs at the site: 4 (Number of USTs includes USTs presently at the site and USTs that have been removed.)

Number of incidents reported to IEMA for this site: 1

Incident Numbers assigned to the site due to releases from USTs: 20091397

Please list all tanks that have ever been located at the site and tanks that are presently located at the site.

Product Stored in UST	Size (gallons)	Did UST have a release?	Incident No.	Type of Release Tank Leak / Overfill / Piping Leak
Gasoline	10,000	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	20091397	Tank Leak
Gasoline	10,000	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	20091397	Tank Leak
Gasoline	8,000	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	n/a	
Gasoline	4,000	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	n/a	
		Yes <input type="checkbox"/> No <input type="checkbox"/>		
		Yes <input type="checkbox"/> No <input type="checkbox"/>		
		Yes <input type="checkbox"/> No <input type="checkbox"/>		
		Yes <input type="checkbox"/> No <input type="checkbox"/>		

Add More Rows

Undo Last Add

Budget Summary

Choose the applicable regulation: 734 732

734	Free Product	Stage 1 Site Investigation	Stage 2 Site Investigation	Stage 3 Site Investigation	Corrective Action
				Actual	
Drilling and Monitoring Well Costs Form	\$	\$	\$	\$ 6,891.36	\$
Analytical Costs Form	\$	\$	\$	\$ 4,860.64	\$
Remediation and Disposal Costs Form	\$	\$	\$	\$ 567.28	\$
UST Removal and Abandonment Costs Form	\$	\$	\$	\$	\$
Paving, Demolition, and Well Abandonment Costs Form	\$	\$	\$	\$	\$
Consulting Personnel Costs Form	\$	\$	\$	\$ 47,054.90	\$
Consultant's Materials Costs Form	\$	\$	\$	\$ 2,226.00	\$
Handling Charges Form	Handling charges will be determined at the time a billing package is submitted to the Illinois EPA. The amount of allowable handling charges will be determined in accordance with the Handling Charges Form.				
Total	\$	\$	\$	\$ 61,600.18	\$

Drilling and Monitoring Well Costs Form

1. Drilling

Number of Borings to Be Drilled	Type HSA/PUSH/ Injection	Depth (feet) of Each Boring	Total Feet Drilled	Reason for Drilling
6	HSA	15.00	90.00	Stage 3

Subpart H minimum payment amount applies.

	Total Feet	Rate per Foot (\$)	Total Cost (\$)
Total Feet via HSA:	90.00	26.09	2,348.10
Total Feet via PUSH:		20.63	
Total Feet for Injection via PUSH:		17.19	
Total Drilling Costs:			2,348.10

2. Monitoring / Recovery Wells

Number of Wells	Type of Well HSA / PUSH / 4" or 6" Recovery / 8" Recovery	Diameter of Well (inches)	Depth of Well (feet)	Total Feet of Wells to Be Installed (\$)
6	HSA	2.00	15.00	90.00

Well Installation	Total Feet	Rate per Foot (\$)	Total Cost (\$)
Total Feet via HSA:	90.00	18.72	1,684.80
Total Feet via PUSH:		14.32	
Total Feet of 4" or 6" Recovery:		28.65	
Total Feet of 8" or Greater Recovery:		46.98	
Total Well Costs:			1,684.80

Total Drilling and Monitoring Well Costs:	\$4,032.90
--	-------------------

Drilling and Monitoring Well Costs Form

1. Drilling

Number of Borings to Be Drilled	Type HSA/PUSH/ Injection	Depth (feet) of Each Boring	Total Feet Drilled	Reason for Drilling
2	PUSH	10.00	20.00	Stage 2 Soil Plume Delineation

Subpart H minimum payment amount applies.

	Total Feet	Rate per Foot (\$)	Total Cost (\$)
Total Feet via HSA:		27.39	
Total Feet via PUSH:	20.00	21.44	428.80
Total Feet for Injection via PUSH:		17.87	
Total Drilling Costs:			1,429.23

2. Monitoring / Recovery Wells

Number of Wells	Type of Well HSA / PUSH / 4" or 6" Recovery / 8" Recovery	Diameter of Well (inches)	Depth of Well (feet)	Total Feet of Wells to Be Installed (\$)

Well Installation	Total Feet	Rate per Foot (\$)	Total Cost (\$)
Total Feet via HSA:		18.72	
Total Feet via PUSH:		14.18	
Total Feet of 4" or 6" Recovery:		28.36	
Total Feet of 8" or Greater Recovery:		46.52	
Total Well Costs:			

Total Drilling and Monitoring Well Costs:	\$1,429.23
--	-------------------

Drilling and Monitoring Well Costs Form

1. Drilling

Number of Borings to Be Drilled	Type HSA/PUSH/ Injection	Depth (feet) of Each Boring	Total Feet Drilled	Reason for Drilling
3	PUSH	10.00	30.00	Stage 3 Soil Plume Delineation
1	PUSH	10.00	10.00	TACO sample

Subpart H minimum payment amount applies.

	Total Feet	Rate per Foot (\$)	Total Cost (\$)
Total Feet via HSA:		27.39	
Total Feet via PUSH:	40.00	21.44	857.60
Total Feet for Injection via PUSH:		17.87	
		Total Drilling Costs:	1,429.23 *

* adjusted to reflect Subpart H minimum payment amount

2. Monitoring / Recovery Wells

Number of Wells	Type of Well HSA / PUSH / 4" or 6" Recovery / 8" Recovery	Diameter of Well (inches)	Depth of Well (feet)	Total Feet of Wells to Be Installed (\$)

Well Installation	Total Feet	Rate per Foot (\$)	Total Cost (\$)
Total Feet via HSA:		18.72	
Total Feet via PUSH:		14.18	
Total Feet of 4" or 6" Recovery:		28.36	
Total Feet of 8" or Greater Recovery:		46.52	
		Total Well Costs:	

Total Drilling and Monitoring Well Costs:	\$1,429.23
--	-------------------

Analytical Costs Form

Laboratory Analysis	Number of Samples		Cost (\$) per Analysis		Total per Parameter
Chemical Analysis					
BETX Soil with MTBE EPA 8260	12	X	96.44	=	\$1,157.28
BETX Water with MTBE EPA 8260	6	X	91.90	=	\$551.40
COD (Chemical Oxygen Demand)		X		=	
Corrosivity		X		=	
Flash Point or Ignitability Analysis EPA 1010	0	X	34.94	=	\$0.00
Fraction Organic Carbon Content (f _{OC}) ASTM-D 2974-00		X	43.11	=	\$0.00
Fat, Oil, & Grease (FOG)		X		=	
LUST Pollutants Soil - analysis must include volatile, base/neutral, polynuclear aromatics and metals list in Section 732, Appendix B and 734.Appendix B		X		=	
Dissolved Oxygen (DO)		X		=	
Paint Filter (Free Liquids)	0	X	14.82	=	\$0.00
PCB / Pesticides (combination)		X		=	
PCBs		X		=	
Pesticides		X		=	
pH	0	X	14.82	=	\$0.00
Phenol		X		=	
Polynuclear Aromatics PNA, or PAH SOIL EPA 8270		X	160.93	=	\$0.00
Polynuclear Aromatics PNA, or PAH WATER EPA 8270		X	160.93	=	\$0.00
Reactivity		X		=	
SVOC - Soil (Semi-Volatile Organic Compounds)		X		=	
SVOC - Water (Semi-Volatile Organic Compounds)		X		=	
TKN (Total Kjeldahl) "nitrogen"		X		=	
TPH (Total Petroleum Hydrocarbons)		X		=	
VOC (Volatile Organic Compounds) - Soil (Non-Aqueous)		X		=	
VOC (Volatile Organic Compounds) - Water		X		=	
		X		=	
		X		=	
		X		=	
		X		=	
		X		=	
		X		=	
		X		=	
Geo-Technical Analysis					
Soil Bulk Density (p _b) ASTM D2937-94		X	24.96	=	\$0.00
Ex-situ Hydraulic Conductivity / Permeability		X		=	
Moisture Content (w) ASTM D2216-92 / D4643-93		X		=	
Porosity		X		=	
Rock Hydraulic Conductivity Ex-situ		X		=	
Sieve / Particle Size Analysis ASTM D422-63 / D1140-54		X	164.51	=	\$0.00
Soil Classification ASTM D2488-90 / D2487-90		X		=	
Soil Particle Density (p _s) ASTM D854-92		X	100.00	=	\$0.00
		X		=	
		X		=	
		X		=	

Analytical Costs Form

Metals Analysis					
Soil preparation fee for Metals TCLP Soil (one fee per soil sample)	12	X	89.63	=	\$1,075.56
Soil preparation fee for Metals Total Soil (one fee per soil sample)		X		=	
Water preparation fee for Metals Water (one fee per water sample)		X		=	
Arsenic TCLP Soil		X		=	
Arsenic Total Soil		X		=	
Arsenic Water		X		=	
Barium TCLP Soil		X		=	
Barium Total Soil		X		=	
Barium Water		X		=	
Cadmium TCLP Soil		X		=	
Cadmium Total Soil		X		=	
Cadmium Water		X		=	
Chromium TCLP Soil		X		=	
Chromium Total Soil		X		=	
Chromium Water		X		=	
Cyanide TCLP Soil		X		=	
Cyanide Total Soil		X		=	
Cyanide Water		X		=	
Iron TCLP Soil		X		=	
Iron Total Soil		X		=	
Iron Water		X		=	
Lead TCLP Soil	12	X	18.15	=	\$217.80
Lead Total Soil		X		=	
Lead Water		X		=	
Mercury TCLP Soil		X		=	
Mercury Total Soil		X		=	
Mercury Water		X		=	
Selenium TCLP Soil		X		=	
Selenium Total Soil		X		=	
Selenium Water		X		=	
Silver TCLP Soil		X		=	
Silver Total Soil		X		=	
Silver Water		X		=	
Metals TCLP Soil (a combination of all metals) RCRA		X		=	
Metals Total Soil (a combination of all metals) RCRA		X		=	
Metals Water (a combination of all metals) RCRA		X		=	
		X		=	
		X		=	
		X		=	
		X		=	
Other					
EnCore® Sampler, purge-and-trap sampler, or equivalent sampling device	12	X	11.35	=	\$136.20
Sample Shipping per sampling event ¹	2	X	56.73	=	\$113.46

¹A sampling event, at a minimum, is all samples (soil and groundwater) collected in a calendar day.

Total Analytical Costs: \$ 3,251.70

Analytical Costs Form

Laboratory Analysis	Number of Samples		Cost (\$) per Analysis		Total per Parameter
Chemical Analysis					
BETX Soil with MTBE EPA 8260		X		=	
BETX Water with MTBE EPA 8260		X		=	
COD (Chemical Oxygen Demand)		X		=	
Corrosivity		X		=	
Flash Point or Ignitability Analysis EPA 1010		X		=	
Fraction Organic Carbon Content (f _{OC}) ASTM-D 2974-00	1	X	45.25	=	\$45.25
Fat, Oil, & Grease (FOG)		X		=	
LUST Pollutants Soil - analysis must include volatile, base/neutral, polynuclear aromatics and metals list in Section 732. Appendix B and 734. Appendix B		X		=	
Dissolved Oxygen (DO)		X		=	
Paint Filter (Free Liquids)		X		=	
PCB / Pesticides (combination)		X		=	
PCBs		X		=	
Pesticides		X		=	
pH		X		=	
Phenol		X		=	
Polynuclear Aromatics PNA, or PAH SOIL EPA 8270		X		=	
Polynuclear Aromatics PNA, or PAH WATER EPA 8270		X		=	
Reactivity		X		=	
SVOC - Soil (Semi-Volatile Organic Compounds)		X		=	
SVOC - Water (Semi-Volatile Organic Compounds)		X		=	
TKN (Total Kjeldahl) "nitrogen"		X		=	
TPH (Total Petroleum Hydrocarbons)		X		=	
VOC (Volatile Organic Compounds) - Soil (Non-Aqueous)		X		=	
VOC (Volatile Organic Compounds) - Water		X		=	
		X		=	
		X		=	
		X		=	
		X		=	
		X		=	
Geo-Technical Analysis					
Soil Bulk Density (ρ _b) ASTM D2937-94	1	X	26.20	=	\$26.20
Ex-situ Hydraulic Conductivity / Permeability		X		=	
Moisture Content (w) ASTM D2216-92 / D4643-93	1	X	14.29	=	\$14.29
Porosity		X		=	
Rock Hydraulic Conductivity Ex-situ		X		=	
Sieve / Particle Size Analysis ASTM D422-63 / D1140-54	1	X	172.70	=	\$172.70
Soil Classification ASTM D2488-90 / D2487-90		X		=	
Soil Particle Density (ρ _s) ASTM D854-92		X		=	
Specific Gravity	1	X	100.00	=	\$100.00
		X		=	
		X		=	

Analytical Costs Form

Metals Analysis					
Soil preparation fee for Metals TCLP Soil (one fee per soil sample)	6	X	94.09	=	\$564.54
Soil preparation fee for Metals Total Soil (one fee per soil sample)		X		=	
Water preparation fee for Metals Water (one fee per water sample)		X		=	
Arsenic TCLP Soil		X		=	
Arsenic Total Soil		X		=	
Arsenic Water		X		=	
Barium TCLP Soil		X		=	
Barium Total Soil		X		=	
Barium Water		X		=	
Cadmium TCLP Soil		X		=	
Cadmium Total Soil		X		=	
Cadmium Water		X		=	
Chromium TCLP Soil		X		=	
Chromium Total Soil		X		=	
Chromium Water		X		=	
Cyanide TCLP Soil		X		=	
Cyanide Total Soil		X		=	
Cyanide Water		X		=	
Iron TCLP Soil		X		=	
Iron Total Soil		X		=	
Iron Water		X		=	
Lead TCLP Soil	6	X	19.05	=	\$114.30
Lead Total Soil		X		=	
Lead Water		X		=	
Mercury TCLP Soil		X		=	
Mercury Total Soil		X		=	
Mercury Water		X		=	
Selenium TCLP Soil		X		=	
Selenium Total Soil		X		=	
Selenium Water		X		=	
Silver TCLP Soil		X		=	
Silver Total Soil		X		=	
Silver Water		X		=	
Metals TCLP Soil (a combination of all metals) RCRA		X		=	
Metals Total Soil (a combination of all metals) RCRA		X		=	
Metals Water (a combination of all metals) RCRA		X		=	
		X		=	
		X		=	
		X		=	
		X		=	
Other					
EnCore® Sampler, purge-and-trap sampler, or equivalent sampling device		X		=	
Sample Shipping per sampling event ¹	1	X	59.55	=	\$59.55

¹A sampling event, at a minimum, is all samples (soil and groundwater) collected in a calendar day.

Total Analytical Costs: \$ 1,096.83

Analytical Costs Form

Laboratory Analysis	Number of Samples	Cost (\$) per Analysis	Total per Parameter
Chemical Analysis			
BETX Soil with MTBE EPA 8260		X	=
BETX Water with MTBE EPA 8260		X	=
COD (Chemical Oxygen Demand)		X	=
Corrosivity		X	=
Flash Point or Ignitability Analysis EPA 1010		X	=
Fraction Organic Carbon Content (f _{OC}) ASTM-D 2974-00		X	=
Fat, Oil, & Grease (FOG)		X	=
LUST Pollutants Soil - analysis must include volatile, base/neutral, polynuclear aromatics and metals list in Section 732. Appendix B and 734. Appendix B		X	=
Dissolved Oxygen (DO)		X	=
Paint Filter (Free Liquids)		X	=
PCB / Pesticides (combination)		X	=
PCBs		X	=
Pesticides		X	=
pH		X	=
Phenol		X	=
Polynuclear Aromatics PNA, or PAH SOIL EPA 8270		X	=
Polynuclear Aromatics PNA, or PAH WATER EPA 8270		X	=
Reactivity		X	=
SVOC - Soil (Semi-Volatile Organic Compounds)		X	=
SVOC - Water (Semi-Volatile Organic Compounds)		X	=
TKN (Total Kjeldahl) "nitrogen"		X	=
TPH (Total Petroleum Hydrocarbons)		X	=
VOC (Volatile Organic Compounds) - Soil (Non-Aqueous)		X	=
VOC (Volatile Organic Compounds) - Water		X	=
		X	=
		X	=
		X	=
		X	=
		X	=
Geo-Technical Analysis			
Soil Bulk Density (p _b) ASTM D2937-94		X	=
Ex-situ Hydraulic Conductivity / Permeability		X	=
Moisture Content (w) ASTM D2216-92 / D4643-93		X	=
Porosity		X	=
Rock Hydraulic Conductivity Ex-situ		X	=
Sieve / Particle Size Analysis ASTM D422-63 / D1140-54		X	=
Soil Classification ASTM D2488-90 / D2487-90		X	=
Soil Particle Density (p _s) ASTM D854-92		X	=
Specific Gravity		X	=
		X	=
		X	=

Analytical Costs Form

Metals Analysis					
Soil preparation fee for Metals TCLP Soil (one fee per soil sample)	4	X	94.09	=	\$376.36
Soil preparation fee for Metals Total Soil (one fee per soil sample)		X		=	
Water preparation fee for Metals Water (one fee per water sample)		X		=	
Arsenic TCLP Soil		X		=	
Arsenic Total Soil		X		=	
Arsenic Water		X		=	
Barium TCLP Soil		X		=	
Barium Total Soil		X		=	
Barium Water		X		=	
Cadmium TCLP Soil		X		=	
Cadmium Total Soil		X		=	
Cadmium Water		X		=	
Chromium TCLP Soil		X		=	
Chromium Total Soil		X		=	
Chromium Water		X		=	
Cyanide TCLP Soil		X		=	
Cyanide Total Soil		X		=	
Cyanide Water		X		=	
Iron TCLP Soil		X		=	
Iron Total Soil		X		=	
Iron Water		X		=	
Lead TCLP Soil	4	X	19.05	=	\$76.20
Lead Total Soil		X		=	
Lead Water		X		=	
Mercury TCLP Soil		X		=	
Mercury Total Soil		X		=	
Mercury Water		X		=	
Selenium TCLP Soil		X		=	
Selenium Total Soil		X		=	
Selenium Water		X		=	
Silver TCLP Soil		X		=	
Silver Total Soil		X		=	
Silver Water		X		=	
Metals TCLP Soil (a combination of all metals) RCRA		X		=	
Metals Total Soil (a combination of all metals) RCRA		X		=	
Metals Water (a combination of all metals) RCRA		X		=	
		X		=	
		X		=	
		X		=	
		X		=	
Other					
EnCore® Sampler, purge-and-trap sampler, or equivalent sampling device		X		=	
Sample Shipping per sampling event ¹	1	X	59.55	=	\$59.55

¹A sampling event, at a minimum, is all samples (soil and groundwater) collected in a calendar day.

Total Analytical Costs: \$ 512.11

Remediation and Disposal Costs Form

A. Conventional Technology

Excavation, Transportation, and Disposal of contaminated soil and/or the 4-foot backfill material removal during early action activities:

Number of Cubic Yards	Cost per Cubic Yard (\$)	Total Cost

Backfilling the Excavation:

Number of Cubic Yards	Cost per Cubic Yard (\$)	Total Cost

Overburden Removal and Return:

Number of Cubic Yards	Cost per Cubic Yard (\$)	Total Cost

B. Alternative Technology

Alternative Technology Selected:	
Number of Cubic Yards of Soil to Be Remediated	
Total Non-Consulting Personnel Costs Summary Sheet (\$)	
Total Remediation Materials Costs Summary Sheet (\$)	
Total Cost of the System	

Remediation and Disposal Costs Form

C. Groundwater Remediation and/or Free Product Removal System

Total Non-Consulting Personnel Costs Summary Sheet (\$)	
Total Remediation Materials Costs Summary Sheet (\$)	
Total Cost of the System	

D. Groundwater and/or Free Product Removal and Disposal

Number of Gallons	Cost per Gallon (\$)	Total Cost
	.72	\$.00

E. Drum Disposal

Number of Drums of Solid Waste	Cost per Drum (\$)	Total Cost
2	283.64	\$567.28
Number of Drums of Liquid Waste	Cost per Drum (\$)	Total Cost
0	158.81	\$.00
Total Drum Disposal Costs		\$567.28

Total Remediation and Disposal Costs:	\$567.28
--	-----------------

Consulting Personnel Costs Form

Employee Name	Personnel Title	Hours	Rate* (\$)	Total Cost
Remediation Category	Task			
	Engineer I	18.00	85.92	\$1,546.56
Stage 3-Field	S.A. Drilling/Review/Log Analytical Results/Well Survey/G.W. Mobilizations/Arrangements			
	Senior Project Manager	8.00	114.56	\$916.48
Stage 3-Field	Drilling Prep & Plans/SA: Review & Log Soil Analytical Results/S.A. Field Report			
	Geologist III	18.00	100.84	\$1,815.12
Stage 3-Field	S.A. Mobilization/Arrangements/Drilling Prep & Plans/Drilling			
	Engineer I	2.00	85.92	\$171.84
Stage 3-Field	Drilling Prep & Plans			
	Project Manager	8.00	103.12	\$824.96
Stage 3-Field	Groundwater; Sample Collection & Surveying			
	Engineer III	4.00	114.56	\$458.24
Stage 3-Field	Documentation/Review/Log Analytical Results			
	Professional Geologist	8.00	105.40	\$843.20
Stage 3-Field	Groundwater; Sample Collection & Surveying			
	Senior Prof. Geologist	2.00	120.00	\$240.00
Stage 3-Field	Drilling Plan / Field Preparation / Oversight			
	Scientist III	4.00	70.00	\$280.00
Stage 3-Field	Go to Supervisor of Assessments office & get off-site property owner information			

Employee Name	Personnel Title	Hours	Rate* (\$)	Total Cost
Remediation Category	Task			
	Senior Prof. Geologist	4.00	120.00	\$480.00
Stage 3-Budget	Review / Certify Stage 2/3 Budget			
	Project Manager	20.00	90.00	\$1,800.00
Stage 3-Budget	Prepare Stage 2/3 Budget			
	Senior Project Manager	6.00	114.56	\$687.36
Stage 3-Budget	Stage 2/3 Budge/technical compliance/overview			
	Geologist III	16.00	100.84	\$1,613.44
Stage 3-Budget	Stage 3 Budget calculations and preparations			
	Senior Admin. Assistant	2.00	51.56	\$103.12
Stage 3-Budget	Stage 2/3 Budget compilation, assembly and distribution			
	Administrative Assistant IV	8.00	40.00	\$320.00
Stage 3-Plan	Copy, check pages, package and mail stage 2/3 Site Investigation Plan & Budget			
	Scientist III	16.00	70.00	\$1,120.00
Stage 3-Plan	Prepare maps, boring logs, exhibits, slug test for Stage 2/3 Site Investigation Plan			
	Senior Prof. Geologist	4.00	120.00	\$480.00
Stage 3-Plan	Review, edit, and certify Stage 2/3 Site Investigation Plan			
	Project Manager	40.00	90.00	\$3,600.00
Stage 3-Plan	Prepare Stage 2/3 Site Investigation Plan & Budget			

*Refer to the applicable Maximum Payment Amounts document.

Total of Consulting Personnel Costs	\$17,300.32
--	--------------------

Consulting Personnel Costs Form

Employee Name	Personnel Title	Hours	Rate* (\$)	Total Cost
Remediation Category	Task			
	Senior Project Manager	8.00	119.11	\$952.88
Stage 3-Plan	Stage 3 Plan / Oversight/ Coordination / Technical Compliance			
	Senior Prof. Engineer	4.00	154.84	\$619.36
Stage 3-Plan	Stage 3 Report Certification			
	Professional Geologist	40.00	109.57	\$4,382.80
Stage 3-Plan	Stage 3 Plan Development/Design			
	Engineer III	8.00	119.11	\$952.88
Stage 3-Plan	Stage 3 Plan Sampling Plan			
	Draftperson/CAD III	8.00	59.55	\$476.40
Stage 3-Plan	Drafting of maps for report			
	Senior Admin. Assistant	4.00	53.60	\$214.40
Stage 3-Plan	Stage 3 report compilation, assembly and distribution			

Employee Name	Personnel Title	Hours	Rate* (\$)	Total Cost
Remediation Category	Task			
	Senior Prof. Engineer	2.00	154.84	\$309.68
Stage 3-Field	Project Arrangements/Oversight for Site Investigation			
	Geologist III	16.00	104.81	\$1,676.96
Stage 3-Field	On-site Drilling/Sampling Oversight			
	Engineer III	16.00	119.11	\$1,905.76
Stage 3-Field	On-site Drilling and Sampling			
	Senior Admin. Assistant	4.00	53.60	\$214.40
Stage 3-Field	Office Prep., Scheduling, Arrangements for Investigation			
	Senior Project Manager	4.00	119.11	\$476.44
Stage 3-Field	Analytical review			
	Draftperson/CAD IV	6.00	65.50	\$393.00
Stage 3-Field	Drafting/ Locations/Elevation/Contamination Levels			
	Geologist III	2.00	104.81	\$209.62
Stage 3-Field	Analytical Tabulation/Input			
	Engineer I	4.00	89.32	\$357.28
Stage 3-Field	Borelogs			

Employee Name	Personnel Title	Hours	Rate* (\$)	Total Cost
Remediation Category	Task			
	Geologist III	6.00	104.81	\$628.86
SICR	SICR oversight / Technical Compliance			
	Engineer I	6.00	89.32	\$535.92
SICR	SICR development, compilation			
	Senior Project Manager	6.00	119.11	\$714.66
SICR	SICR oversight / Technical Compliance			
	Senior Prof. Engineer	3.00	154.84	\$464.52
SICR	SICR Certification			
	Engineer III	40.00	119.11	\$4,764.40
SICR	SICR Development, Site Investigation Field Description			
	Senior Draftperson/CAD	8.00	71.45	\$571.60
SICR	Drafting/Update and Complete Maps			
	Senior Admin. Assistant	4.00	53.60	\$214.40
SICR	SICR Assembly/Distribution			

Employee Name	Personnel Title	Hours	Rate* (\$)	Total Cost
Remediation Category	Task			
	Senior Project Manager	12.00	119.11	\$1,429.32
Stage 3-Pay	Stage 3 Reimbursement Coordination /Technical Oversight			
	Senior Prof. Engineer	3.00	154.84	\$464.52
Stage 3-Pay	Stage 3 Reimbursement Certification			
	Senior Acct. Technician	24.00	65.50	\$1,572.00
Stage 3-Pay	Stage 3 Reimbursement			
	Senior Admin. Assistant	4.00	53.60	\$214.40
Stage 3-Pay	Stage 3 Reimbursement Assembly/Distribution			

*Refer to the applicable Maximum Payment Amounts document.

Total of Consulting Personnel Costs	\$29,754.58
--	--------------------

Consultant's Materials Costs Form

Materials, Equipment, or Field Purchase	Time or Amount Used	Rate (\$)	Unit	Total Cost
Remediation Category	Description/Justification			
PID Rental	3.00	129.00	/day	\$387.00
Stage 3-Field	To detect VOC levels in soil samples			
Survey Equipment Rental	1.00	75.00	/day	\$75.00
Stage 3-Field	Survey monitoring well elevations for groundwater flow calculations			
Water Level Indicator	2.00	24.00	/day	\$48.00
Stage 3-Field	Test for gw during drilling activities/Measure static gw elevations			
Measuring Wheel	4.00	18.00	/day	\$72.00
Stage 3-Field	Mapping sampling locations			
Mileage	1,700.00	.58	/mile	\$986.00
Stage 3-Field	Two Round Trips (3 - Drilling/sampling, 1 - GW Sample/Survey)			
Disposable Gloves	4.00	13.00	/box	\$52.00
Stage 3-Field	Disposable latex gloves for soil and groundwater sampling			
Bailing Twine	2.00	5.00	/roll	\$10.00
Stage 3-Field	String for Bailers			
Bailers	6.00	13.00	/each	\$78.00
Stage 3-Field	Disposable bailers for monitoring well development and sampling			
Slug Rental	1.00	36.00	/day	\$36.00
Stage 3-Field	Hydraulic Conductivity			

Materials, Equipment, or Field Purchase		Time or Amount Used	Rate (\$)	Unit	Total Cost
Remediation Category	Description/Justification				
Metal Detector			25.00	/day	\$0.00
Stage 3-Field	Metal Detection				
Copies		150.00	.10	/copy	\$15.00
SICR	Soil / GW Analytical / Field Reports / Field Documentation				
Disposable Gloves		2.00	13.00	/box	\$26.00
Stage 3-Field	Disposable latex gloves for soil sampling				
Digital Camera		.00	10.00	/day	\$0.00
Stage 3-Field	To take pictures for documentation of excavation activities				
Copies		150.00	.10	/copy	\$15.00
Stage 3-Field	IEPA Project Correspondence / Off-site Access Correspondence				
Measuring Wheel			18.00	/day	\$0.00
Stage 3-Field	Drilling / Sampling				
Mileage			.58	/mile	\$0.00
Stage 3-Field	Travel to site				
Digital Camera		.00	10.00	/day	\$0.00
Stage 3-Field	To document concrete placement and location				
Per Diem			36.00		\$0.00
Stage 3-Field					

Materials, Equipment, or Field Purchase		Time or Amount Used	Rate (\$)	Unit	Total Cost
Remediation Category	Description/Justification				
Copies		800.00	.15	/each	\$120.00
Stage 3-Plan	Copies of Stage 3 Plan / Draft / Forms				
Postage		2.00	6.00	/each	\$12.00
Stage 3-Plan	Stage 3 Forms / Report Distribution				
Copies		200.00	.15	/each	\$30.00
Stage 3-Budget	Copies of Stage 3 Budget / Drafts				
Copies		800.00	.15	/each	\$120.00
SICR	Copies of Completion Report and Attachements				
Postage		2.00	6.00	/each	\$12.00
SICR	Completion Forms / Report Distribution				
Copies		800.00	.15	/each	\$120.00
Stage 3-Pay	Copies of Stage 3 Reimbursement / Supporting Documentation				
Postage		2.00	6.00	/each	\$12.00
Stage 3-Pay	Stage 3 Forms / Distribution				
Total of Consultant Materials Costs					\$2,226.00

Page 1

Illinois Environmental Protection Agency
Bureau of Land - #24
Leaking Underground Storage Tank Section
1021 North Grand Avenue East
Post Office Box 19276
Springfield, IL 62794-9276

Please note that the Illinois EPA does not require the submission of a budget if the owner or operator does not intend to seek payment from the Underground Storage Tank Fund.

Please submit all correspondence in duplicate and include the Re: block shown at the beginning of this letter.

If you have any questions or need further assistance, please contact Donna Wallace at (217) 524-1283.

Sincerely,



Thomas A. Henninger
Unit Manager
Leaking Underground Storage Tank Section
Division of Remediation Management
Bureau of Land

TAH:DW:dw\

Attachment: Attachment A

c: CW3M Company
BOL File

Attachment A

Re: LPC #1930155021 -- White County
Crossville/ Maier's Grocery
109 South State Street
Leaking UST Incident No. 20091397
Leaking UST Technical File

SECTION 1

STAGE 2 and 3 Actual Costs

The following amounts are approved:

\$6,891.36	Drilling and Monitoring Well Costs
\$4,860.64	Analytical Costs
\$567.28	Remediation and Disposal Costs
\$0	UST Removal and Abandonment Costs
\$0	Paving, Demolition, and Well Abandonment Costs
\$47,054.90	Consulting Personnel Costs
\$2,226.00	Consultant's Materials Costs

Handling charges will be determined at the time a billing package is reviewed by the Illinois EPA. The amount of allowable handling charges will be determined in accordance with Section 57.1(a) of the Environmental Protection Act (Act) and 35 Illinois Administrative Code (35 Ill. Adm. Code) 734.635.

DW:dwl

CW^M Company

Environmental Consulting Services

701 W. South Grand Avenue
Springfield, IL 62704

Phone: (217) 522-8001
Fax: (217) 522-8009

September 11, 2014

Ms. Donna Wallace, Project Manager
LUST Section, Bureau of Land
Illinois Environmental Protection Agency
1021 North Grand Avenue East
Springfield, Illinois 62794-9276

1930155021 – White County
Maier's Grocery
Incident # 20091397
Leaking UST Technical File

RE: LPC #1930155021-White County
Huck's #131 / Maier's Grocery
109 South State Street, Crossville, Illinois
Incident Numbers: 2009-1397
LUST Technical Reports—Corrective Action Plan and Budget

Dear Ms. Wallace:

On behalf of Martin & Bayley, Inc., owner of the USTs at the above referenced site, we are submitting the attached Corrective Action Plan (CAP) and Budget.

If you have any questions or require additional information, please contact Mr. Vince Smith or me at (217) 522-8001.

Sincerely,



Carol L. Rowe, P.G.
Senior Environmental Geologist

xc: Mr. Mark Bayley, *Martin & Bayley, Inc.*
Mr. William T. Sinnott, *CW^M Company, Inc.*

I:/Maier's Grocery/CAP/CAP cl.doc

IEPA-DIVISION OF RECORDS MANAGEMENT
RELEASABLE
OCT 15 2014
REVIEWER: MJK

RECEIVED

SEP 12 2014

IEPA/BOL

701 W. South Grand Avenue
Springfield, IL 62704
(217) 522-8001

400 West Jackson, Suite C
Marion, IL 62959
(618) 997-2238

CORRECTIVE ACTION PLAN AND BUDGET

HUCK'S #131 / MAIER'S GROCERY

**CROSSVILLE, ILLINOIS
LPC #1930155021—White County
LUST Incident Number 2009-1397**

Submitted to:

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY
Leaking Underground Storage Tank Section, Bureau of Land
1021 North Grand Avenue East
Springfield, Illinois

Prepared By:

CW³M COMPANY, INC.

RECEIVED

SEP 12 2014

701 W. South Grand Ave.
Springfield, Illinois
(217) 522-8001

400 West Jackson, Suite 600
Marion, Illinois
(618) 997-2238

EPA/BOL

SEPTEMBER 2014

TABLE OF CONTENTS

APPENDICES	ii
TABLES	iii
ACRONYMS AND ABBREVIATIONS	iii
1. SITE HISTORY/EXECUTIVE SUMMARY	1
1.1 General	1
1.2 Site Location	1
1.3 Underground Storage Tank Information.....	2
1.4 Early Action Summary	2
1.5 Site Investigation Summary	3
1.6 Corrective Action Summary.....	3
2. REMEDIATION OBJECTIVES	5
2.1 Determination of Clean-up Objectives.....	5
2.2 Soil and Groundwater Objectives	5
3. CORRECTIVE ACTION PLAN	7
3.1 Soil Removal and Disposal	8
3.1.1 Soil Volume Estimate.....	8
3.1.2 Supervision of Removal Activities	8
3.1.3 Soil Disposal	9
3.2 Sampling Plan	9
3.3 Current and Projected Uses of the Site	9
3.4 Institutional Controls Proposed	9
3.5 Water Supply Well Survey	10
3.6 Closure.....	10
4. REFERENCES	11

APPENDICES

APPENDIX A	Corrective Action Plan Form
APPENDIX B	Site Maps and Illustrations
APPENDIX C	OSFM Eligibility Determination
APPENDIX D	TACO Calculations and Modeling
APPENDIX E	Summary of Analytical Results
APPENDIX F	Corrective Action Plan Budget

RECEIVED

SEP 12 2014

IEPA/BOL

TABLES

Table 1-1 Underground Storage Tank Summary.....	2
Table 2-1 Soil Remediation Objectives.....	6
Table 2-2 Groundwater Remediation Objectives.....	6
Table 3-1 Excavation Details.....	8
Table 3-2 Water Supply Well Information.....	10

ACRONYMS AND ABBREVIATIONS

AET	Applied Environmental Technologies, Inc.
BETX	benzene, ethylbenzene, toluene and total xylenes
CACR	Corrective Action Completion Report
CAP	Corrective Action Plan
CUOs	Clean-Up Objectives
CW ³ M	CW ³ M Company, Inc.
HAA	Highway Authority Agreement
Ill. Adm. Code	Illinois Administrative Code
IEMA	Illinois Emergency Management Agency
IEPA	Illinois Environmental Protection Agency
ISGS	Illinois State Geological Survey
ISWS	Illinois State Water Survey
LUST	Leaking Underground Storage Tank
mg/kg	milligrams per kilogram (parts per million)
mg/L	milligrams per liter
ml	Milliliters
MTBE	Methyl tert-butyl ether
MW	Monitoring Well
PID	Photoionization detector
PVC	polyvinyl chloride
OSFM	Office of the State Fire Marshal
ROW	Right of Way
SICR	Site Investigation Completion Report
SIP	Site Investigation Plan
TACO	Tiered Approach to Corrective Action Objectives
TCLP	Toxicity Characteristic Leaching Procedure
USTs	Underground Storage Tank
WCRs	Well Completion Reports

1. SITE HISTORY/EXECUTIVE SUMMARY

1.1 GENERAL

Mr. Mark Bayley, representing Martin and Bayley, Inc. / Maier's Grocery, the owner of the underground storage tanks (USTs) at Huck's Convenience Store #131, reported a release to the Illinois Emergency Management Agency (IEMA) following an environmental assessment. Incident Number 2009-1397 was assigned on December 16, 2009. Martin and Bayley, Inc. has now requested that CW³M Company, Inc. (CW³M) proceed with reporting requirements in accordance with 35 Illinois Administrative Code (Ill Adm. Code) § 734. This Corrective Action Plan (CAP) and Budget is being prepared for Incident 2009-1397.

The 20-Day Certification was submitted to the Illinois Environmental Protection Agency (IEPA) on December 30, 2009 (AET, 2009). The 45-Day Report was submitted on January 26, 2010 (AET, 2010a) and was approved by the Agency on February 4, 2010 (IEPA, 2010a). Because Applied Environmental Technologies, Inc. (AET) conducted a Stage 2 and Stage 3 Site Investigation simultaneously, both reports were submitted on September 17, 2010 (AET, 2010b) and approved by the Agency on October 20, 2010 (IEPA, 2010b). CW³M Company, Inc. submitted an Amended Stage 2/3 Site Investigation Plan (SIP) and Budget to the Agency on July 19, 2013 (CW³M, 2013a) and it was approved with modifications to the budget on August 8, 2013 (IEPA, 2013a). Another Amended Stage 2/3 SIP and Budget was submitted on October 1, 2013 (CW³M, 2013b) and was approved by the Agency on October 23, 2013 (IEPA, 2013b). A Site Investigation Completion Report (SICR) was submitted to the Agency on June 23, 2014 (CW³M, 2014) and was approved on July 1, 2014 (IEPA, 2014).

This proposed CAP and Budget has been prepared in accordance with the requirements of the 35 Ill. Adm. Code § 734. The IEPA CAP Form is included in this document as Appendix A. The proposed Corrective Action Budget and certification are included herein as Appendix F. This report is certified by an Illinois Licensed Professional Engineer. The geological investigation and site investigation was performed under the direction of an Illinois Licensed Professional Geologist and completed in accordance with the Professional Geologist Licensing Act and its Rules for Administration.

1.2 SITE LOCATION

The site, known as Huck's #131 / Maier's Grocery is located at 109 South State Street, Crossville, White County, Illinois 62821. The site is located in the SW¼ of the NE¼ of the SE¼ of Section 23, Township 4 South of the Centralia Baseline and Range 10 East of the Third Principal Meridian.

1.3 UNDERGROUND STORAGE TANK INFORMATION

Applied Environmental Technologies, Inc. personnel were at the site on December 16, 2009 to conduct early action activities. Two (2) ten thousand (10,000) gallon USTs, one (1) eight thousand (8,000) gallon UST, and one (1) four thousand (4,000) gallon UST were present at the facility; all containing gasoline. Under permit No. 00007-2010REM issued by Office of the Illinois State Fire Marshal (OSFM) Tank Specialist Daniel Starks, the two (2) ten thousand (10,000) gallon USTs were removed on January 27, 2010. A narrative of the tank removals and other early action activities can be found in the 45-Day Report (AET, 2010a). Tank information is included in Table 1-1.

Table 1-1. Underground Storage Tank Summary

Tank Number	Tank Volume (gallons)	Tank Contents	Incident Number	Release Information	Current Status
1	10,000	Gasoline	2009-1397	Tank Leak	Removed 1/27/2010
2	10,000	Gasoline	2009-1397	Tank Leak	Removed 1/27/2010
3	8,000	Gasoline	none	n/a	Currently in use
6	4,000	Gasoline	none	n/a	Currently in use

1.4 EARLY ACTION SUMMARY

Following IEMA notification of the release, Mr. Mark Bayley requested that AET proceed with reporting requirements and early action activities in accordance with 35 Ill. Adm. Code § 734.

While on site on December 16, 2009 for an environmental assessment, AET personnel observed soil discoloration and odor in a soil boring advanced adjacent to the tank pit which contained the two (2) 10,000 gallon UST's. Permit No. 00007-2010REM was issued by OSFM Tank Specialist Daniel Starks. Starks was on site to observe the removal of the two (2) 10,000 gallon USTs on January 27, 2010. Following the removal of the tanks, the cause of the release was confirmed to be the result of holes in the USTs.

Approximately 544 tons (362 cubic yards) of contaminated backfill was removed from the former tank pit and taken to Veolia Landfill in Fairfield, Illinois. Applied Environmental Technologies, Inc. then collected nineteen (19) soil samples in early action which were analyzed for benzene, ethylbenzene, toluene, and total xylenes (BETX), methyl-tert-butyl-ether (MTBE), Toxicity Leaching Characteristic Leaching Procedure (TCLP) Lead, and Total Lead. Soil samples were collected from the excavation walls and floor, the supply lines, and beneath the dispensers, as required. Soil analytical results indicated that the most stringent Tier 1 Clean-up Objectives (CUOs) have been exceeded by benzene, ethylbenzene, MTBE, and lead at various locations around the tank pit area. The soil boring logs and analytical results from early action sampling were included in the 45-Day Report (AET, 2010a). A summary of all analytical results has been included in Appendix E.

1.5 SITE INVESTIGATION SUMMARY

Soil analytical results indicate that the CUOs for the site have been exceeded but are contained within the property boundaries and the right-of-way (ROW) of the alley south of the site. Contamination is located in the southern portion of the site near the former tank pit. Indicator contaminants have exceeded the objectives of benzene and lead TCLP contaminants. Based on site investigations, the soil plume has been defined.

Groundwater analytical results indicate that the Clean-Up Objectives for the site have been exceeded and are not contained within the property boundary. Contamination is located in the center of the property and the southeastern property line. Due to denial of off-site agreements, the groundwater contamination plume is defined in the southeastern corner of the property and may cross into the ROW onto the alley adjacent the property and Illinois Route 1 and 14. Based on the site investigations, the groundwater plume has been defined.

A table summarizing all soil and groundwater analytical has been included herein and can be found in Appendix E. All soil and groundwater samples were collected and analyzed for BETX, MTBE, and TCLP Lead indicator parameters. The summarized values include a comparison to the IEPA's most stringent Tier 1 CUOs.

1.6 CORRECTIVE ACTION SUMMARY

The results from the site investigation activities indicate that soil contamination above Tier 1 Clean-up Objectives is present on site and has been defined (CW³M, 2014). Upon the determination of Tiered Approach to Corrective Action Objectives (TACO) Tier 2 CUOs, it is apparent that the levels of contamination defined from on-site investigations activities

have exceeded Tier 2 Residential CUOs in the substantially more contaminated early action wall sample, 11. A vast majority of the contamination delineated on site exceeds the Migration Mass-Limit for Class I groundwater. Those contaminants would be best addressed by the City of Crossville adopting either a citywide or limited groundwater ordinance effectively prohibiting the installation of potable water supply wells within a specified area of Crossville, Illinois. By accepting a groundwater restriction, all TCLP Lead and all benzene contamination apart from sample 11 would be addressed as the soil to groundwater migration limitation was exceeded. However, contamination would still remain on site that exceeds Tier 2 CUOs located at sample 11. This localized and defined contamination would be best addressed by excavation and backfill replacement. By removing contaminated soils at sample location 11, soil on site will meet Tier 2 CUOs; the need for a construction worker inhalation warning or engineered vapor barrier for xylene and MTBE constituents will be no longer necessary, and contamination that has been projected to migrate off site from that location will no longer pose a threat to off-site properties. Should Corrective Action sampling from the floor and walls of excavation yield analytical results above Tier 2 CUOs, additional remediation measures will be proposed in an Amended CAP to the Agency to address the contamination.

Groundwater analytical results indicate that the Tier 1 CUOs have been exceeded at locations on site. Therefore, it will be proposed that the City of Crossville adopt either a citywide or limited groundwater ordinance effectively prohibiting the installation of potable water supply wells within a specified area of Crossville, Illinois. Tables comparing the site investigation analytical results to the most stringent Tier 1 Remediation Objectives are included with the analytical results in Appendix E. The groundwater plume is defined on-site to the north and west. Due to denial of off-site agreements, the groundwater contamination plume is defined in the southeastern corner of the property and may cross into the ROW onto the alley adjacent the property and into the right-of-way Illinois Route 1 and 14. With the determination of site specific soil conditions, R-26 modeling indicates that groundwater contamination detected in monitoring well MW-3 has the potential of migrating 115.' Groundwater flow on site is generally from north to south and onto the neighboring southern property and on the ROW of the neighboring alley.

2. REMEDIATION OBJECTIVES

2.1 DETERMINATION OF CLEAN-UP OBJECTIVES

In accordance with 35 Ill. Adm. Code 734, remediation objectives were determined in accordance with 35 Ill. Adm. Code 742. The site specific physical parameters have been determined, and are calculated below.

Hydraulic Conductivity (K), 1.74×10^{-4} cm/sec

Soil bulk density (ρ_b), 1.398 g/cm³

Soil particle density (ρ_s), 2.523 g/cm³

Moisture content (w), 0.23

Organic carbon content (f_{oc}), 0.00630 g/g

An ex-situ hydraulic conductivity test was performed during site investigation activities. The test was performed by lowering a "slug" constructed of polyvinyl chloride (PVC) into a monitoring well (MW-10). When the slug was lowered into the well, the groundwater was displaced by the volume of the slug. As the water within the well equilibrated, groundwater depth changes were recorded in relation to the time interval that had passed since the test was initiated.

The hydraulic conductivity calculations are based on the total well depth, screen length and radius, initial water depth and the water depth change over time. The depth-to-water changes over time were plotted on a semi-logarithmic graph and the curve was evaluated. The slope of the straight-line portion of the curve, along with the slug test data, was used to calculate the hydraulic conductivity.

2.2 SOIL AND GROUNDWATER OBJECTIVES

The soil and groundwater objectives are listed for the site below in tabular format. Values are listed with a groundwater usage restriction. Additionally, the groundwater at this site continues to be considered Class 1 unless demonstrated otherwise pursuant to 35 Ill. Adm. Code § 620.210.

Table 2-1. Soil Remediation Objectives

Parameter	TACO Residential Tier 2 Soil Clean-up Objective (mg/kg)	TACO Industrial/Commercial Tier 2 Soil Clean-up Objective (mg/kg)	TACO Residential Tier 1 Clean-up Objectives (mg/kg)
Benzene	2.94	5.62	0.8
Ethylbenzene	385.20	385.20	58.0
Toluene	657.13	657.13	42.0
Total Xylenes	90.98	90.98	5.6
MTBE	156.4	514.60	140.0

Table 2-2. Groundwater Remediation Objectives

Parameter	TACO Residential Tier 1 Class I Clean-up Objective (mg/L)
Benzene	0.005
Ethylbenzene	0.7
Toluene	1.0
Total Xylenes	10.0
MTBE	0.07
Total Lead	0.0075

3. CORRECTIVE ACTION PLAN

The goal of remediation is to bring the contaminant levels of the soil and groundwater at the Huck's #131 site in Crossville below CUOs and reduce the chance of exposure to contaminated soil and groundwater. A number of remediation technologies are available for Leaking Underground Storage Tank (LUST) sites. The selection of a clean-up technology involves a choice of the option best suited to meet the clean-up objectives for the site within a reasonable timeframe in a cost conscious manner. At the Huck's #131 site, CW³M has identified possible technology options, screened the options according to threshold requirements, and selected the best of the remaining options.

The following CAP and Budget has been prepared by CW³M Company, Inc., as recommendation for the most appropriate approach to the remediation of the contamination for the Huck's #131 in Crossville, Illinois.

This plan proposes to address a majority of soil contamination by imposing a groundwater ordinance. Therefore, a groundwater ordinance will be implemented for a limited area around the site or the entire city of Crossville to address on-site soil contamination above Tier 1 and 2 migration limit for benzene and TCLP lead. After eliminating contamination from the site that would be addressed by the issuance of a groundwater ordinance, contamination detected from the early action excavation and UST removal confirms levels above Tier 2 CUOs at sample 11. Therefore, CW³M proposes an excavation and backfill replacement of contaminated soils along the northeastern corner of the early action excavation pit and the center of the site to remove all soil contamination on site above Tier 2 CUOs. The proposed excavation area is estimated to be approximately 690 square feet and is based on contamination detected from early action excavation sample 11.

Groundwater analytical results indicate that the groundwater quality has exceeded the Class 1 Groundwater CUO's at various locations on site. Indicator contaminants have exceeded the objectives for benzene and MTBE contaminants and the groundwater plume has been defined. R-26 modeling indicates that the extent of groundwater contamination exceeding the most stringent Tier 1 remediation objectives reaches off-site properties but is generally confined to the Huck's #131 property. Groundwater flow is generally to the south as indicated by the most recent groundwater elevation survey. Therefore, it will be proposed that the city of Crossville adopt a citywide or limited groundwater ordinance effectively prohibiting the installation of potable water supply wells, at a minimum, within a specified area of Crossville, Illinois. The adoption of a groundwater ordinance by the city will be used to reduce any chance of exposure to contaminated groundwater caused by the incident.

3.1 SOIL REMOVAL AND DISPOSAL

Contaminated soil will be excavated to an approximate depth of 10 feet, the typical depth at which groundwater was encountered during investigation activities. Due to the extent of soil contamination, the center portion of the property along the northeastern corner of the early action excavation will be excavated.

The contaminated soil will be excavated by use of a trackhoe (e.g., Caterpillar 322 or equivalent). A backhoe or endloader will be employed for moving soils to stockpile locations and loading contaminated soil onto trucks. The loader will also be used to place clean backfill. Sloping or benching will be conducted where necessary to protect excavation walls. The excavated area will be capped with a foot of topsoil to return the site to its original condition.

3.1.1 Soil Volume Estimate

There is one proposed excavation area based on the contaminant plumes. Table 3-1 below details the size of the area and what will be done at specific depths. Surface area of the contaminated soil to be excavated was determined by using the AutoCAD "Area" utility, the proposed excavation area is shown on Drawing 0011 in Appendix B. The perimeter of the excavation was set based on sample results which exceeded Tier 2 clean-up objectives to ones that did not. If sample results indicate that further excavation is needed, an amendment will be proposed to address remaining contamination.

Table 3-1. Excavation Details

Description	Disposal	Sq. Feet	Depth	Bulking	Cu. Yds
Excavation	Landfill	687.5	0' - 10'	1.05	268.3

3.1.2 Supervision of Removal Activities

CW³M Company, Inc. personnel will be on-site during all remediation activities to perform contractor coordination and scheduling, maintenance of manifests and all required technical documentation, sample collection and oversight of work for compliance with the approved CAP.

At the close of each day the excavation remains open, the excavation area will be scraped clean, shored up and protected from access with use of caution fences and barricades. Should excavation activities cause a dust control or nuisance problem, measures such as wetting will be employed to mitigate fugitive dust. Throughout the excavation, the access truck paths will be scraped clean to prevent tracking of soil onto the street. Should

tracking still occur, the street or highway will also be scraped clean. Traffic control may also be required due to the close proximity to of IL Rt. 1 and 14.

A safe distance will be maintained near structures (e.g., sidewalks, roadways, utilities and/or property boundaries) and, where weak soils are encountered, by sloping the excavation at a 1:1 slope. Should excavation walls begin to collapse, measures will be taken to secure them, and they will be benched back until a stable wall slope is achieved.

3.1.3 Soil Disposal

A waste characterization soil sample will be collected from the area of highest contamination in order to comply with landfill waste acceptance requirements. A licensed special waste hauler will transport the excavated soils to an approved, licensed, waste disposal facility.

3.2 SAMPLING PLAN

Wall samples from the excavation will be collected every 20 feet along the sides of the excavation. There is an excavation perimeter of approximately 115 feet. In order to ensure that each wall has a sample interval of a minimum of 20 feet, it is anticipated and budgeted that 8 wall samples will be collected. Floor samples will be collected one from every 400 ft² (20ft x 20ft) from the excavation. In order to ensure that the floor has been sampled at an interval of one for every 400 ft², it is anticipated and budgeted that 2 floor samples will be collected. These samples will be analyzed for BETX and MTBE to determine remaining contaminant levels or verify the extent of soil contamination has been obtained to the proposed limits.

3.3 CURRENT AND PROJECTED USES OF THE SITE

The site is located in a commercial / residential district of Crossville, Illinois. Surrounding the site are private residences as well as small businesses. The site borders Main Street (Route 14) to the north and Illinois Route 1 to the east. The site remains as the only active fueling station and grocery/convenience store for the City of Crossville.

3.4 INSTITUTIONAL CONTROLS PROPOSED

An appropriate land use restriction will address the contamination remaining after excavation of the proposed contaminated soil. If corrective action wall sample analytical results indicate that the proposed corrective action excavation successfully eliminated

contaminated soils in the proposed area, then a groundwater ordinance will effectively address the remaining soil contamination on site. The adoption of a citywide or limited groundwater ordinance by the City of Crossville will be used to limit exposure to contaminated groundwater caused by the incident and address soil contamination exceeding Tier 1 and 2 CUOs for migration to groundwater limit that exists at multiple locations on site. Lastly, soil contamination plume delineation indicates the potential that soil contamination has leached into the ROW of the alley south of the site. This will be addressed with the issuance of a Highway Authority Agreement (HAA) for that ROW.

3.5 WATER SUPPLY WELL SURVEY

A survey of water supply wells for the purpose of identifying and locating all community water supply wells within 2,500 feet of the UST systems and all potable water supply wells within 200 feet of the UST systems has been conducted. The Illinois State Water Survey (ISWS), the Illinois State Geological Survey (ISGS) and the IEPA Division of Public Water Supplies were contacted via the Source Water Assessment Program online.

The ISGS, ISWS, and IEPA Division of Public Water Supplies were accessed on line on June 19, 2013 (EPA.STATE.IL.US, 2013). The response indicated that four wells were located within 2,500 feet of the site and no wells are within the designated setback zone.

Table 3-2. Water Supply Well Information

Well ID	Type	Depth of Well (feet)	Distance From USTs (feet)	Setback Zone (feet)
04154	ISGS	0	225	200
04155	ISGS	41	225	200
04156	ISGS	41	1,225	200
31680	ISGS	74	1,275	200

3.6 CLOSURE

Analytical results indicate that TACO Tier 2 Residential Clean-up Objectives will be met for the site with the proposed measures in this CAP. Once all institutional controls are enacted and all monitoring wells have been properly abandoned, a Corrective Action Completion Report (CACR) will be submitted to the IEPA requesting a No Further Remediation letter unless modifications are requested as a result of the actions proposed in this plan. The closure report will be accompanied by a certification from an Illinois Registered Professional Engineer.

4. REFERENCES

- AET, 2009. Applied Environmental Technologies, Inc., *20-Day Report, Huck's #131 / Maier's Grocery*, Crossville, Illinois, December 30, 2009.
- AET, 2010a. Applied Environmental Technologies, Inc., *45-Day Report, Huck's #131 / Maier's Grocery*, Crossville, Illinois, January 26, 2010.
- AET, 2010b. Applied Environmental Technologies, Inc., *Site Investigation Plan and Budget Stage 2/3, Huck's #131 / Maier's Grocery*, Crossville, Illinois, September 17, 2010.
- CW³M, 2013a. CWM Company, Inc., *Amended Stage 2/3 Site Investigation Plan and Budget, Huck's #131/ Maier's Grocery*, Crossville, Illinois, July 19, 2013.
- CW³M, 2013b. CWM Company, Inc., *Amended Stage 2/3 Site Investigation Plan and Budget, Huck's #131/ Maier's Grocery*, Crossville, Illinois, October 1, 2013.
- CW³M, 2014. CWM Company, Inc., *Site Investigation Completion Report, Huck's #131/ Maier's Grocery*, Crossville, Illinois, June 23, 2014.
- EPA.STATE.IL.US, 2013. Source Water Assessment Program, *Water Well Survey Map www.maps.epa.state.il.us*, accessed June 19, 2013.
- IEPA, 2010a. Illinois Environmental Protection Agency, *45-Day Report Correspondence, Huck's #131 / Maier's Grocery*, Crossville, Illinois, February 4, 2010.
- IEPA, 2010b. Illinois Environmental Protection Agency, *Stage 2 / 3 Site Investigation Plan and Budget Correspondence, Huck's #131 / Maier's Grocery*, Crossville, Illinois, October 20, 2010.
- IEPA, 2013a. Illinois Environmental Protection Agency, *Amended Stage 2 / 3 Site Investigation Plan and Budget Correspondence, Huck's #131 / Maier's Grocery*, Crossville, Illinois, August 8, 2013.
- IEPA, 2013b. Illinois Environmental Protection Agency, *Amended Stage 2 / 3 Site Investigation Plan and Budget Correspondence, Huck's #131 / Maier's Grocery*, Crossville, Illinois, October 23, 2013.
- IEPA, 2014. Illinois Environmental Protection Agency, *Site Investigation Completion Report Correspondence, Huck's #131 / Maier's Grocery*, Crossville, Illinois, July 1, 2014.

APPENDIX A
CORRECTIVE ACTION PLAN FORM

CORRECTIVE ACTION PLAN AND BUDGET
HUCK'S #131 - MAIER'S GROCERY
CROSSVILLE, ILLINOIS



Illinois Environmental Protection Agency

Bureau of Land • 1021 N. Grand Avenue E. • P.O. Box 19276 • Springfield • Illinois • 62794-9276

The Agency is authorized to require this information under Section 4 and Title XVI of the Environmental Protection Act (415 ILCS 5/4, 5/57 – 57.17). Failure to disclose this information may result in a civil penalty of not to exceed \$50,000.00 for the violation and an additional civil penalty of not to exceed \$10,000.00 for each day during which the violation continues (415 ILCS 5/42). Any person who knowingly makes a false material statement or representation, orally or in writing, in any label, manifest, record, report, permit, or license, or other document filed, maintained or used for the purpose of compliance with Title XVI commits a Class 4 felony. Any second or subsequent offense after conviction hereunder is a Class 3 felony (415 ILCS 5/44 and 57.17). This form has been approved by the Forms Management Center.

Leaking Underground Storage Tank Program Corrective Action Plan

A. Site Identification

IEMA Incident # (6- or 8-digit): 20091397 IEPA LPC# (10-digit): 1930155021
Site Name: Huck's #131 - Crossville
Site Address (Not a P.O. Box): 109 South State Street
City: Crossville County: White ZIP Code: 62821

B. Site Information

- Will the owner or operator seek reimbursement from the Underground Storage Tank Fund? Yes No
- If yes, is the budget attached? Yes No
- Is this an amended plan? Yes No
- Identify the material(s) released: Gasoline
- This Corrective Action Plan is submitted pursuant to:
 - 35 Ill. Adm. Code 731.166
 - The material released was:
 - petroleum
 - hazardous substance (see Environmental Protection Act Section 3.215)
 - 35 Ill. Adm. Code 732.404
 - 35 Ill. Adm. Code 734.335

C. Proposed Methods of Remediation

- Soil Excavation and Backfill Replacement, Highway Authority Agreement, Groundwater Ordinance
- Groundwater Groundwater Ordinance

RECEIVED

SEP 12 2014

D. Soil and Groundwater Investigation Results

(for incidents subject to 35 Ill. Adm. Code 731 only or 732 that were classified using Method One or Two, if not previously provided)

Provide the following:

- Description of investigation activities performed to define the extents of soil and/or groundwater contamination;
- Analytical results, chain-of-custody forms, and laboratory certifications;
- Tables comparing analytical results to applicable remediation objectives;

IEPA/BOL

4. Boring logs;
5. Monitoring well logs; and
6. Site maps meeting the requirements of 35 Ill. Adm. Code 732.110(a) or 734.440 and showing:
 - a. Soil sample locations;
 - b. Monitoring well locations; and
 - c. Plumes of soil and groundwater contamination.

E. Technical Information - Corrective Action Plan

Provide the following:

1. Executive summary identifying the objectives of the corrective action plan and the technical approach to be utilized to meet such objectives;
 - a. The major components (e.g., treatment, containment, removal) of the corrective action plan;
 - b. The scope of the problems to be addressed by the proposed corrective action; and
 - c. A schedule for implementation and completion of the plan;
2. Identification of the remediation objectives proposed for the site;
3. A description of the remedial technologies selected:
 - a. The feasibility of implementing the remedial technologies;
 - b. Whether the remedial technologies will perform satisfactorily and reliably until the remediation objectives are achieved; and
 - c. A schedule of when the technologies are expected to achieve the applicable remediation objectives;
4. A confirmation sampling plan that describes how the effectiveness of the corrective action activities will be monitored during their implementation and after their completion;
5. A description of the current and projected future uses of the site;
6. A description of engineered barriers or institutional controls that will be relied upon to achieve remediation objectives:
 - a. an assessment of their long-term reliability;
 - b. operating and maintenance plans; and
 - c. maps showing area covered by barriers and institutional controls;
7. The water supply well survey:
 - a. Map(s) showing locations of community water supply wells and other potable wells and the setback zone for each well;
 - b. Map(s) showing regulated recharge areas and wellhead protection areas;
 - c. Map(s) showing the current extent of groundwater contamination exceeding the most stringent Tier 1 remediation objectives;
 - d. Map(s) showing the modeled extent of groundwater contamination exceeding the most stringent Tier 1 remediation objectives;
 - e. Tables listing the setback zone for each community water supply well and other potable water supply wells;
 - f. A narrative identifying each entity contacted to identify potable water supply wells, the name and title of each person contacted, and any field observations associated with any wells identified; and
 - g. A certification from a Licensed Professional Engineer or Licensed Professional Geologist that the survey was conducted in accordance with the requirements and that documentation submitted includes information obtained as a result of the survey (certification of this plan satisfies this requirement);

8. Appendices:
 - a. References and data sources report that are organized; and
 - b. Field logs, well logs, and reports of laboratory analyses;
9. Site map(s) meeting the requirements of 35 Ill. Adm. Code 732.110(a) or 734.440;
10. Engineering design specifications, diagrams, schematics, calculations, manufacturer's specifications, etc.;
11. A description of bench/pilot studies;
12. Cost comparison between proposed method of remediation and other methods of remediation;
13. For the proposed Tier 2 or 3 remediation objectives, provide the following:
 - a. The equations used;
 - b. A discussion of how input variables were determined;
 - c. Map(s) depicting distances used in equations; and
 - d. Calculations; and
14. Provide documentation to demonstrate the following for alternative technologies:
 - a. The proposed alternative technology has a substantial likelihood of successfully achieving compliance with all applicable regulations and remediation objectives;
 - b. The proposed alternative technology will not adversely affect human health and safety or the environment;
 - c. The owner or operator will obtain all Illinois EPA permits necessary to legally authorize use of the alternative technology;
 - d. The owner or operator will implement a program to monitor whether the requirements of subsection (14)(a) have been met;
 - e. Within one year from the date of Illinois EPA approval, the owner or operator will provide to the Illinois EPA monitoring program results establishing whether the proposed alternative technology will successfully achieve compliance with the requirements of subsection (14)(a); and
 - f. Demonstration that the cost of alternative technology will not exceed the cost of conventional technology and is not substantially higher than at least two other alternative technologies, if available and technically feasible.

F. Exposure Pathway Exclusion

Provide the following:

1. A description of the tests to be performed in determining whether the following requirements will be met:
 - a. Attenuation capacity of the soil will not be exceeded for any of the organic contaminants;
 - b. Soil saturation limit will not be exceeded for any of the organic contaminants;
 - c. Contaminated soils do not exhibit any of the reactivity characteristics of hazardous waste per 35 Ill. Adm. Code 721.123;
 - d. Contaminated soils do not exhibit a $\text{pH} \leq 2.0$ or ≥ 12.5 ; and
 - e. Contaminated soils which contain arsenic, barium, cadmium, chromium, lead, mercury, or selenium (or their associated salts) do not exhibit any of the toxicity characteristics of hazardous waste per 35 Ill. Adm. Code 721.124.
2. A discussion of how any exposure pathways are to be excluded.

G. Signatures

All plans, budgets, and reports must be signed by the owner or operator and list the owner's or operator's full name, address, and telephone number.

UST Owner or Operator

Name Martin & Bayley, Inc
Contact Troy Deitz
Address 1311A West Main Street
City Carmi
State Illinois
Zip Code 62821
Phone _____
Signature *Troy Deitz*
Date 8/4/2014

Consultant

Company CWM Company, Inc.
Contact Carol Rowe
Address 701 W. South Grand Avenue
City Springfield
State Illinois
Zip Code 62704
Phone 217-522-8001
Signature *Carol Rowe*
Date 9/10/2014

I certify under penalty of law that all activities that are the subject of this plan were conducted under my supervision or were conducted under the supervision of another Licensed Professional Engineer or Licensed Professional Geologist and reviewed by me; that this plan and all attachments were prepared under my supervision; that, to the best of my knowledge and belief, the work described in this plan has been completed in accordance with the Environmental Protection Act [415 ILCS 5], 35 Ill. Adm. Code 731, 732 or 734, and generally accepted standards and practices of my profession; and that the information presented is accurate and complete. I am aware there are significant penalties for submitting false statements or representations to the Illinois EPA, including but not limited to fines, imprisonment, or both as provided in Sections 44 and 57.17 of the Environmental Protection Act [415 ILCS 5/44 and 57.17].

Licensed Professional Engineer or Geologist

Name Vince E. Smith
Company CWM Company, Inc.
Address 701 W. South Grand Avenue
City Springfield
State Illinois
Zip Code 62704
Phone 217-522-8001
Ill. Registration No. 062-046118
License Expiration Date Nov, 30 2015
Signature *Vince E. Smith*
Date 9/10/14

L.P.E. or L.P.G. Seal



RECEIVED

SEP 12 2014

IEPA/BOL

APPENDIX B

SITE MAPS AND ILLUSTRATIONS

CORRECTIVE ACTION PLAN AND BUDGET
HUCK'S #131 - MAIER'S GROCERY
CROSSVILLE, ILLINOIS

INDEX OF DRAWINGS

Drawing Number	Description	File Name
0001A	Site Location Map	SiteMap.doc
0001B	Topographic Map	topomap.doc
0001C	Surrounding Populations Map	Surround.dwg
0002	Site Map	Site.dwg
0003	Early Action Excavation Map	EAexc.dwg
0004	Early Action Sample Map	EAsamp.dwg
0005	Soil Boring Location Map	SBloc.dwg
0006	Monitoring Well Location Map	MWloc.dwg
0007A	Benzene Soil Contamination Plume Map	Bplume.dwg
0007B	Lead Values Map	Lplume.dwg
0007C	Groundwater Contamination Plume Map	GWcont.dwg
0008	Monitoring Well Elevation Map	MWelev.dwg
0008A	Groundwater Elevation Map June 2012	GWelev.dwg
0009	TACO Parameters Map	TACO.dwg
0010	R-26 Modeling of Contamination Migration Map	R-26.dwg
0011	Corrective Action Excavation Map	CAexc.dwg

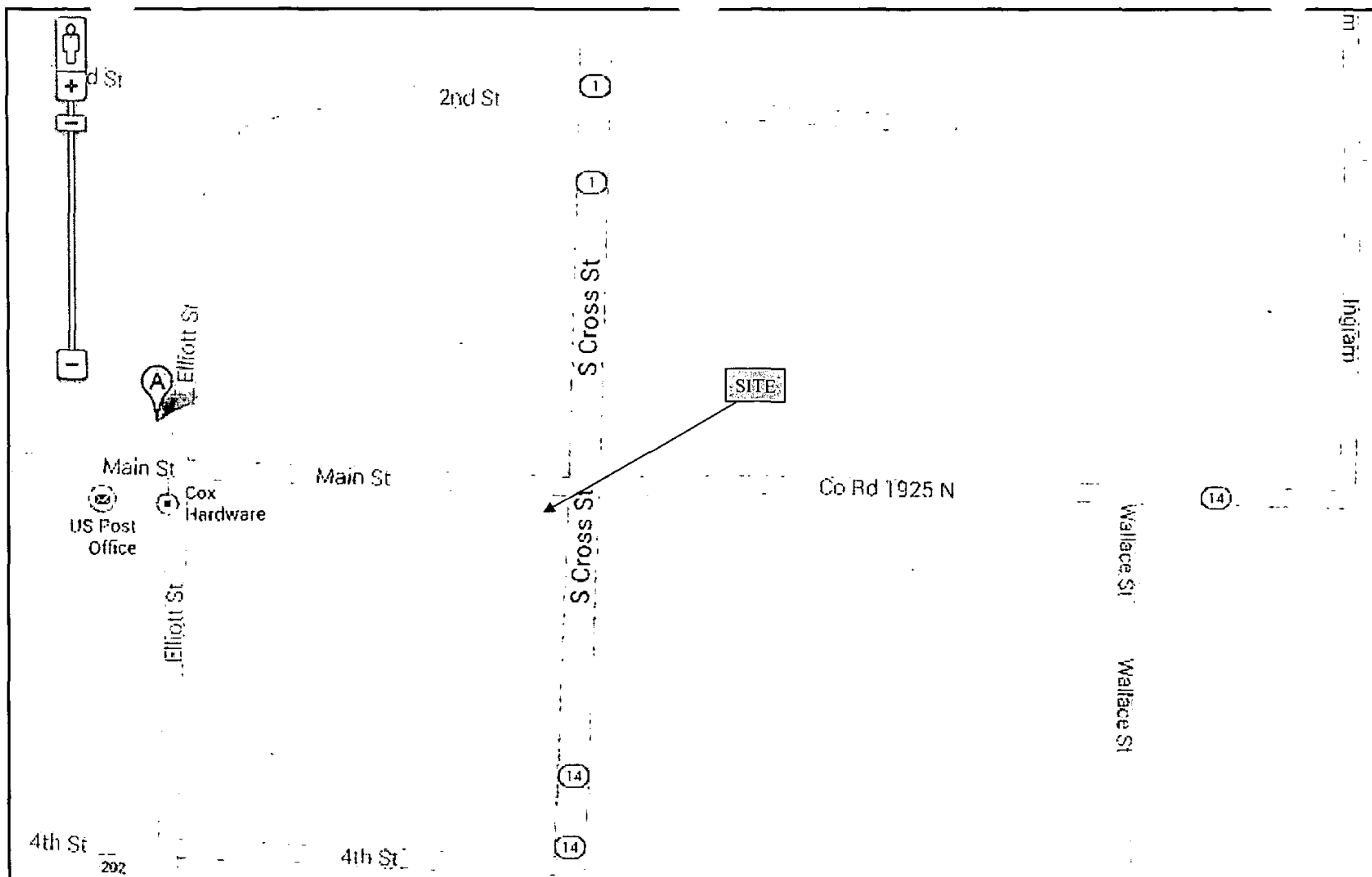
The appearance of some of the images

following this page is due to

Poor Quality Original Documents

and not the scanning or filming processes.

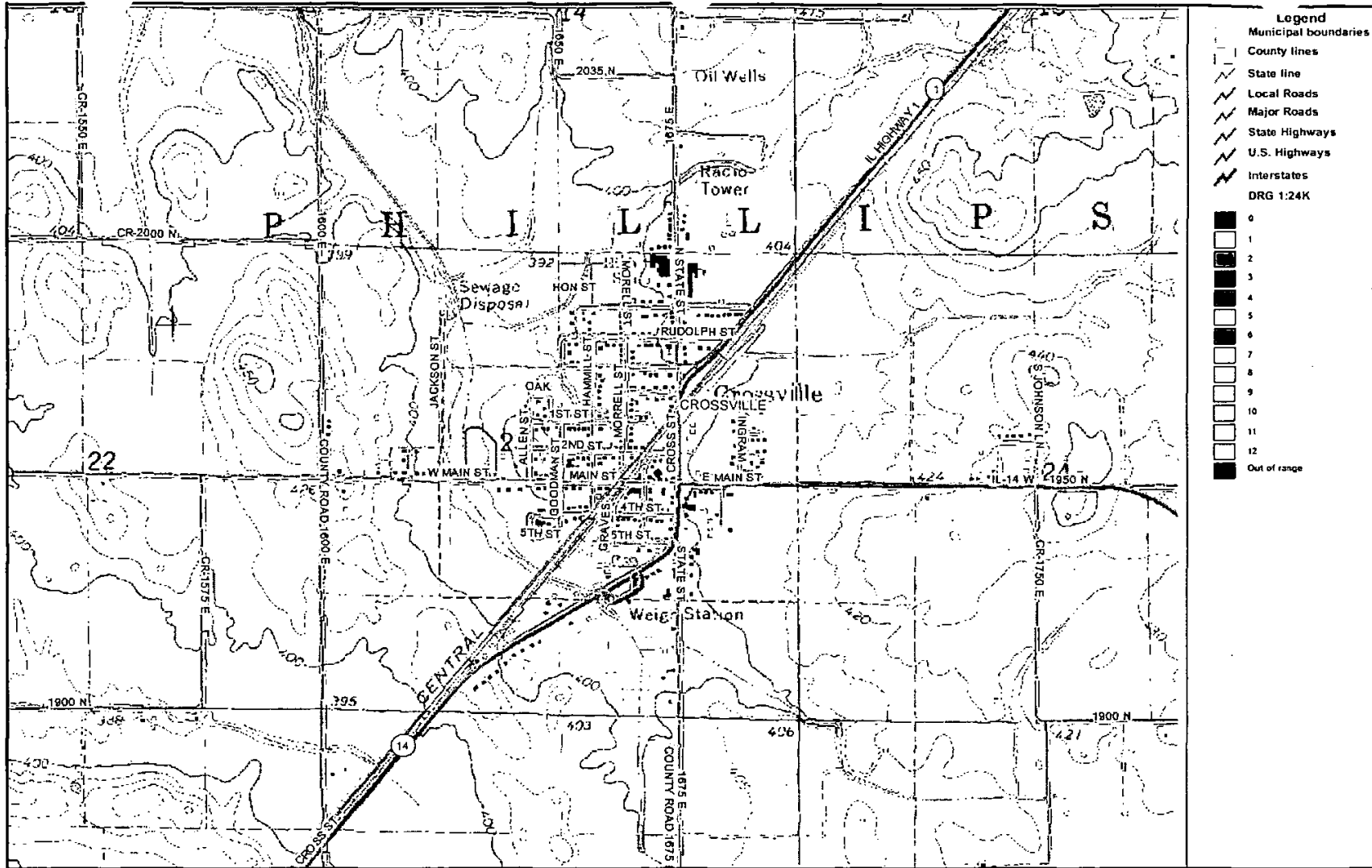
**Com Microfilm Company
(217) 525-5860**



CW³M Company, Inc.
 701 South Grand Avenue West
 Springfield, IL 62704
 (217)-522-8001

Site Location Map
 109 South State Street
 Crossville, Illinois

Drawn By: BMW
 Reviewed By: CLR
 Drawing 0001A
 SiteMap.doc



CW³M Company, Inc.
 701 South Grand Avenue West
 Springfield, IL 62704
 (217)-522-8001

Topographic Map
 109 South State Street
 Crossville, Illinois

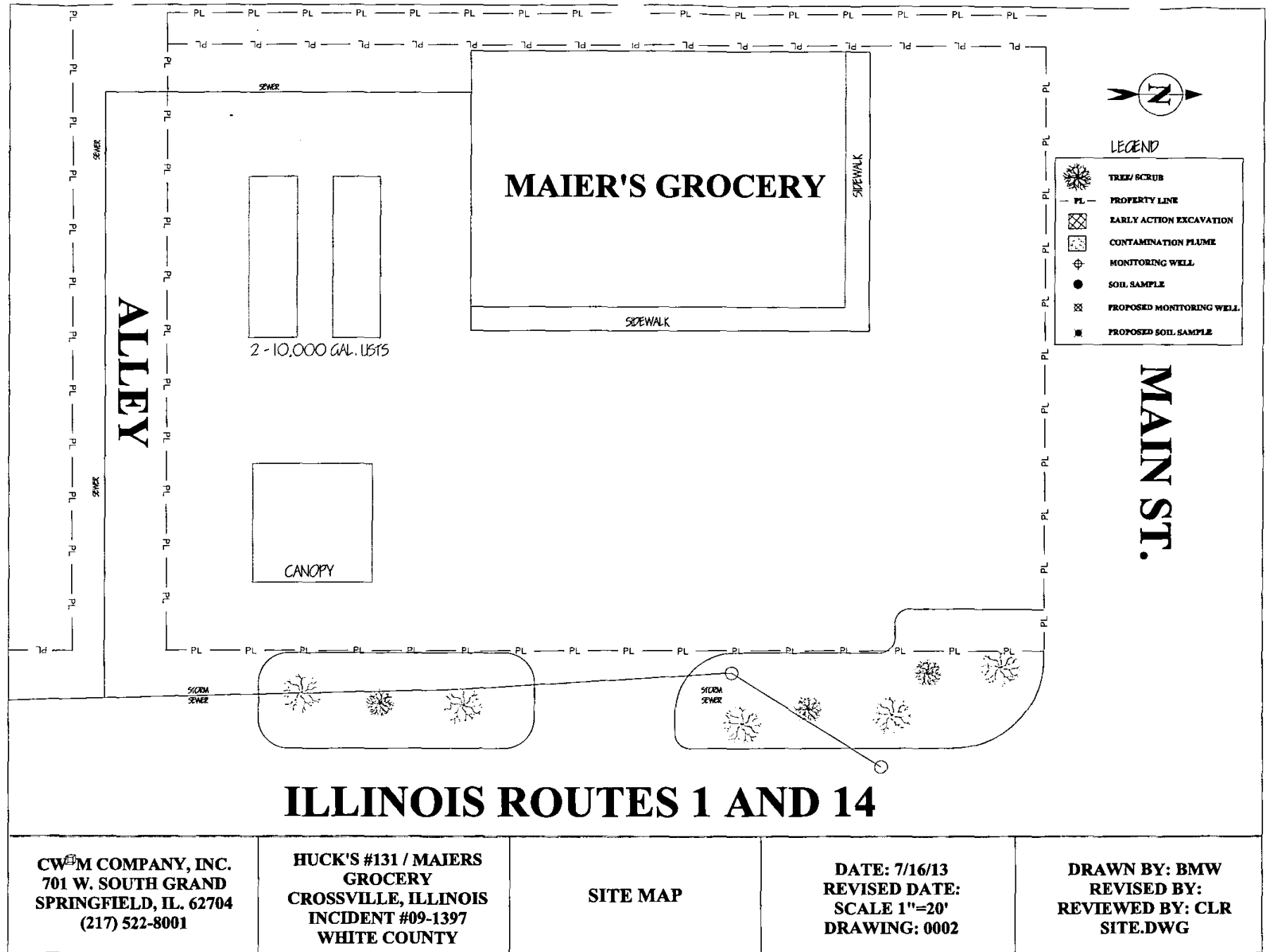
Drawn By: BMW
 Reviewed By: CLR
 Drawing 0001B
 TopoMap.doc



CW³M Company, Inc.
701 South Grand Avenue West
Springfield, IL 62704
(217)-522-8001

Surrounding Populations Map
109 South State Street
Crossville, Illinois

Drawn By: BMW
Reviewed By: CLR
Drawing 0001C
Surround.doc



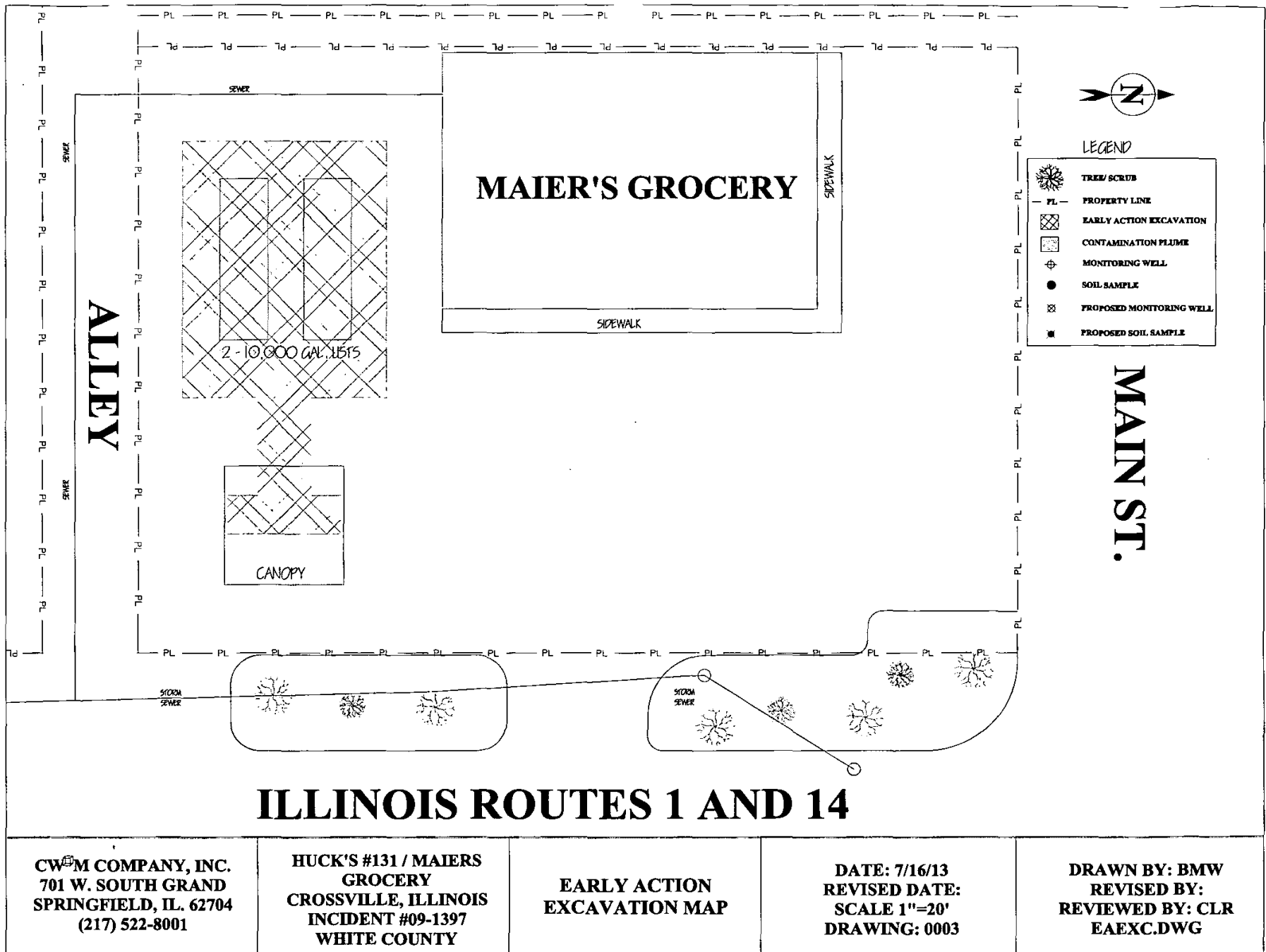
CWM COMPANY, INC.
 701 W. SOUTH GRAND
 SPRINGFIELD, IL. 62704
 (217) 522-8001

HUCK'S #131 / MAIERS
 GROCERY
 CROSSVILLE, ILLINOIS
 INCIDENT #09-1397
 WHITE COUNTY

SITE MAP

DATE: 7/16/13
 REVISED DATE:
 SCALE 1"=20'
 DRAWING: 0002

DRAWN BY: BMW
 REVISED BY:
 REVIEWED BY: CLR
 SITE.DWG



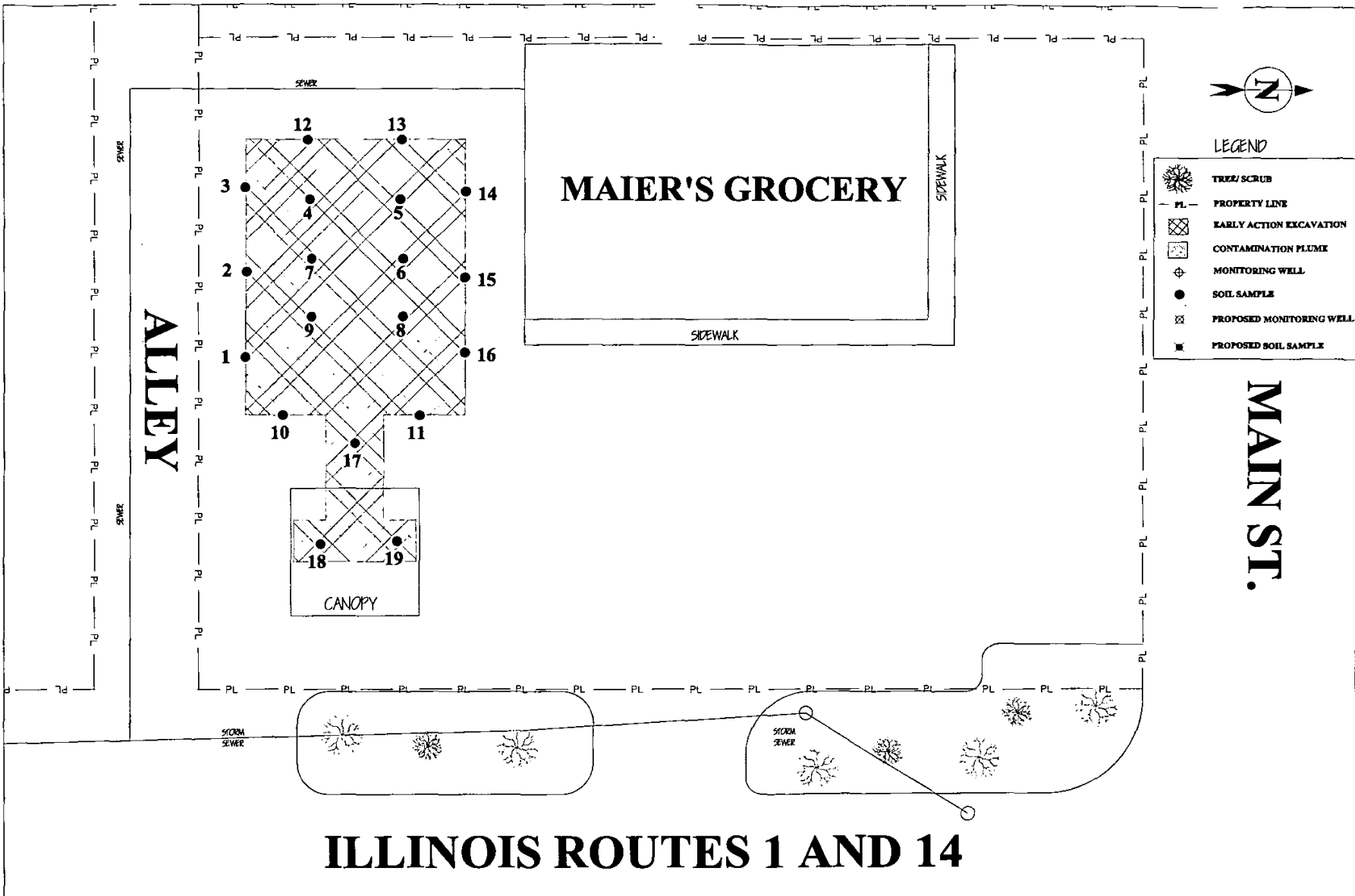
CW²M COMPANY, INC.
 701 W. SOUTH GRAND
 SPRINGFIELD, IL. 62704
 (217) 522-8001

**HUCK'S #131 / MAIERS
 GROCERY
 CROSSVILLE, ILLINOIS
 INCIDENT #09-1397
 WHITE COUNTY**

**EARLY ACTION
 EXCAVATION MAP**

**DATE: 7/16/13
 REVISED DATE:
 SCALE 1"=20'
 DRAWING: 0003**

**DRAWN BY: BMW
 REVISED BY:
 REVIEWED BY: CLR
 EAEXC.DWG**



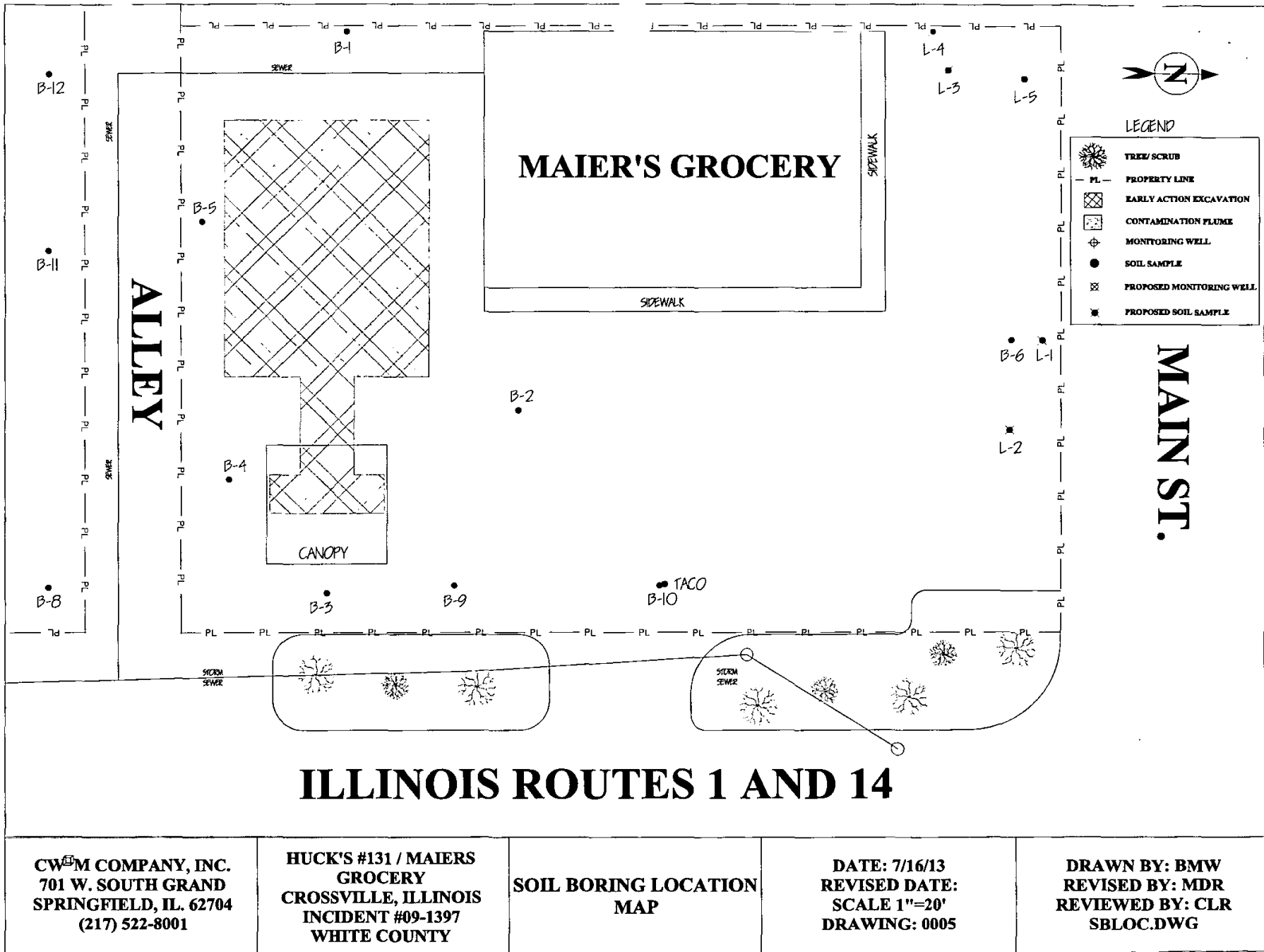
CWM COMPANY, INC.
 701 W. SOUTH GRAND
 SPRINGFIELD, IL. 62704
 (217) 522-8001

**HUCK'S #131 / MAIERS
 GROCERY**
 CROSSVILLE, ILLINOIS
 INCIDENT #09-1397
 WHITE COUNTY

**EARLY ACTION
 SAMPLE MAP**

DATE: 7/16/13
REVISED DATE:
SCALE 1"=20'
DRAWING: 0004

DRAWN BY: BMW
REVISED BY:
REVIEWED BY: CLR
EASAMP.DWG



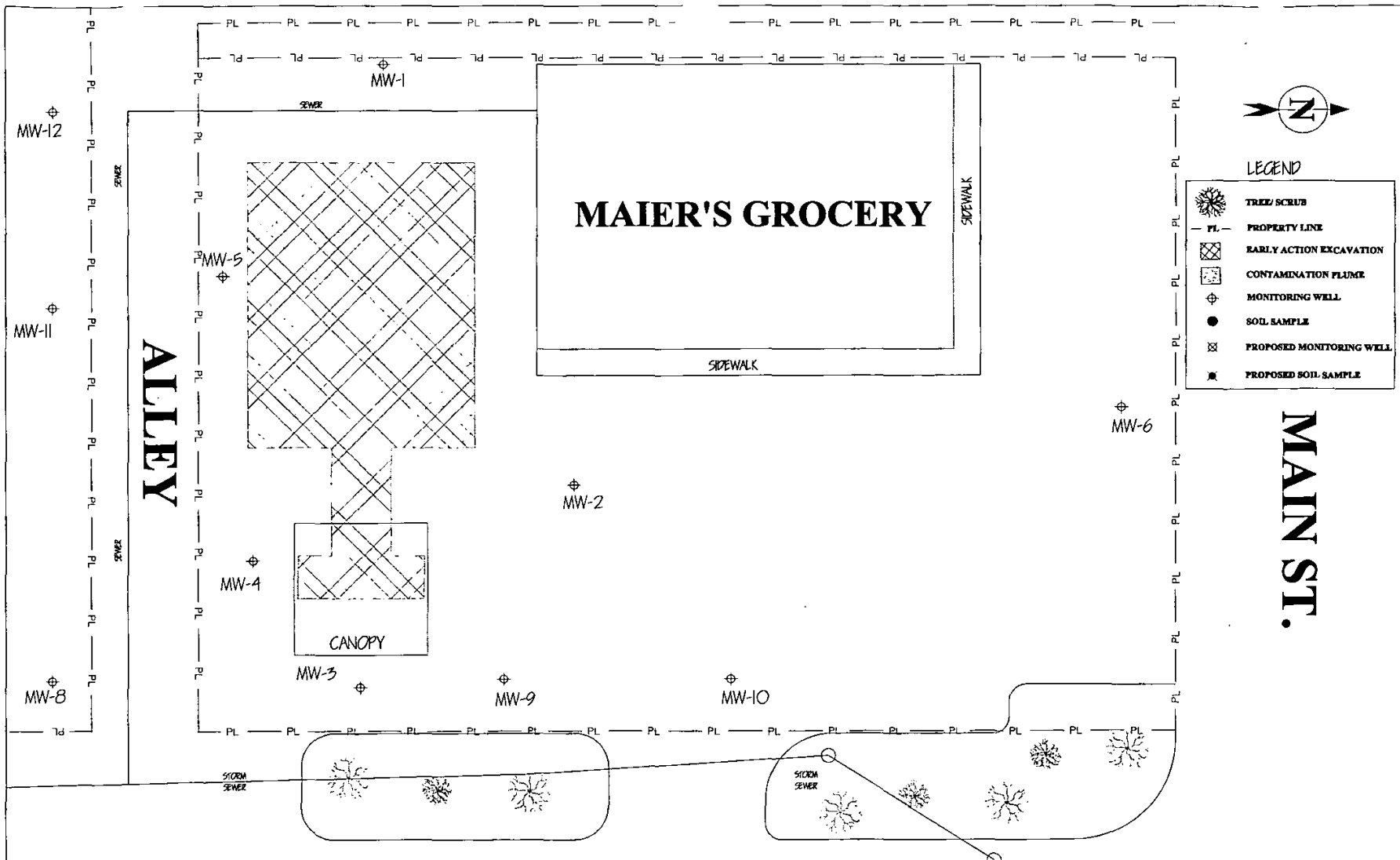
CWM COMPANY, INC.
 701 W. SOUTH GRAND
 SPRINGFIELD, IL. 62704
 (217) 522-8001

HUCK'S #131 / MAIERS
 GROCERY
 CROSSVILLE, ILLINOIS
 INCIDENT #09-1397
 WHITE COUNTY

SOIL BORING LOCATION
 MAP

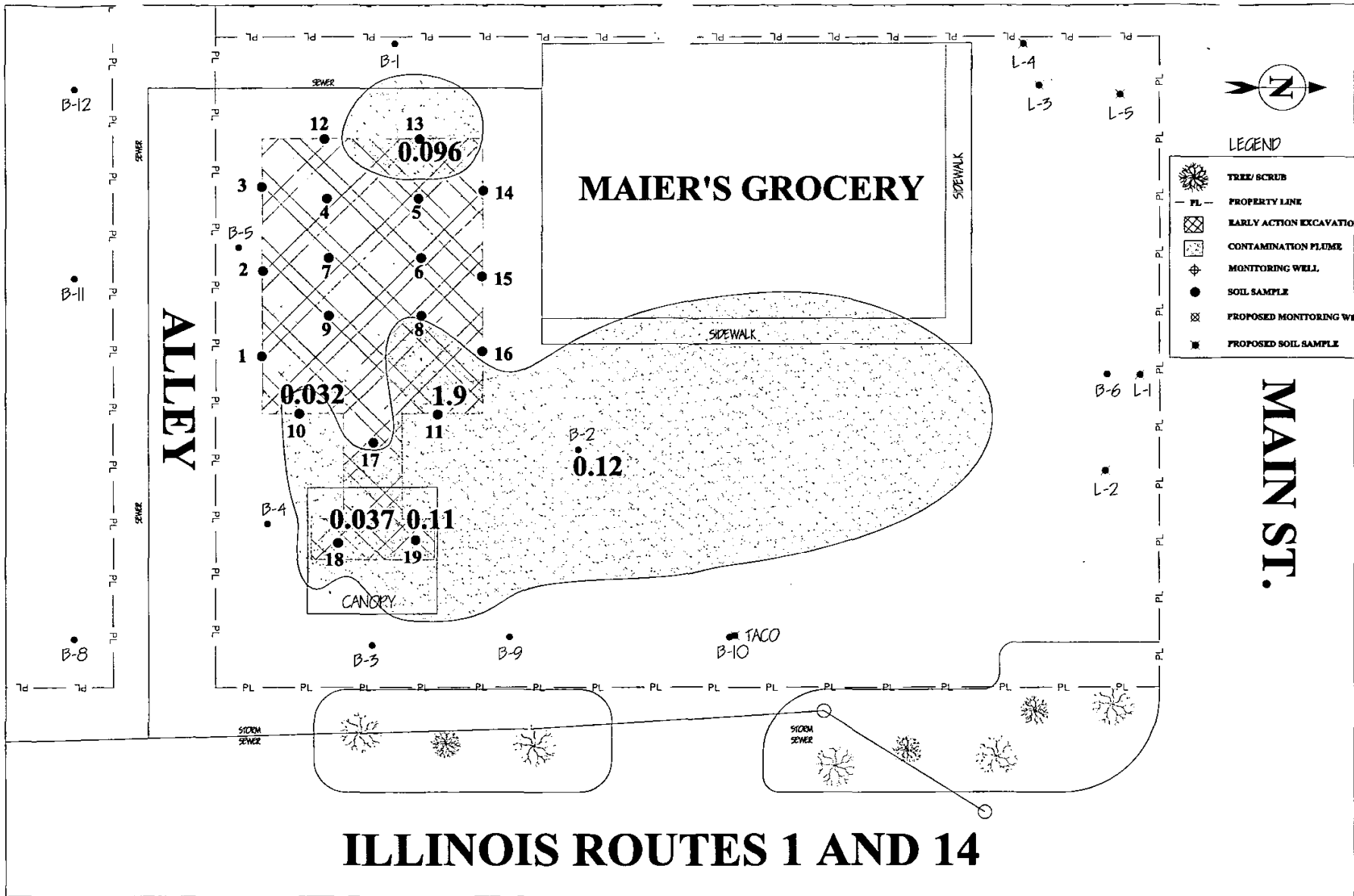
DATE: 7/16/13
 REVISED DATE:
 SCALE 1"=20'
 DRAWING: 0005

DRAWN BY: BMW
 REVISED BY: MDR
 REVIEWED BY: CLR
 SBLOC.DWG

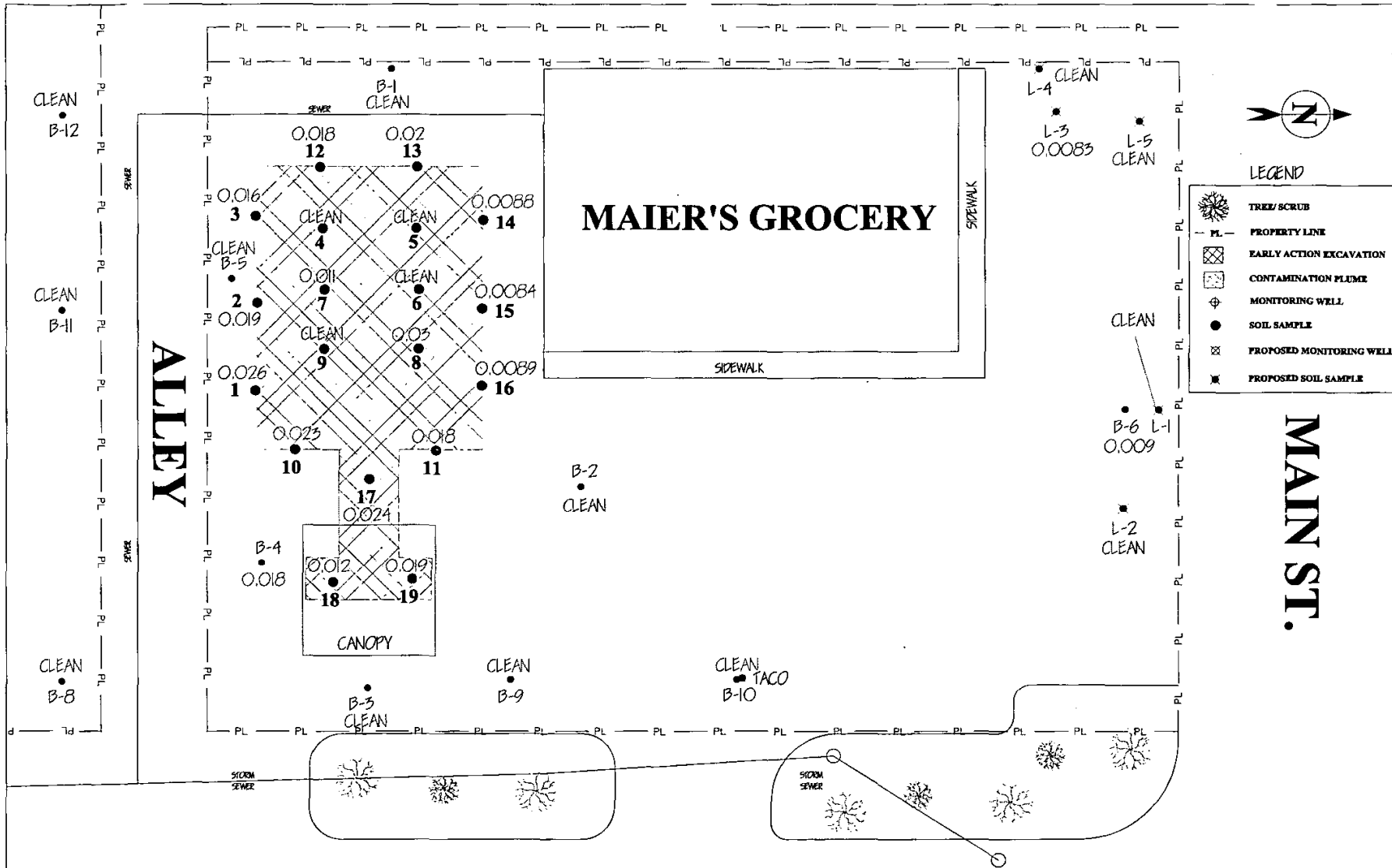


ILLINOIS ROUTES 1 AND 14

<p>CW²M COMPANY, INC. 701 W. SOUTH GRAND SPRINGFIELD, IL. 62704 (217) 522-8001</p>	<p>HUCK'S #131 / MAIERS GROCERY CROSSVILLE, ILLINOIS INCIDENT #09-1397 WHITE COUNTY</p>	<p>MONITORING WELL LOCATION MAP</p>	<p>DATE: 7/16/13 REVISED DATE: SCALE 1"=20' DRAWING: 0006</p>	<p>DRAWN BY: BMW REVISED BY: MDR REVIEWED BY: CLR MWLOC.DWG</p>
---	--	---	--	--

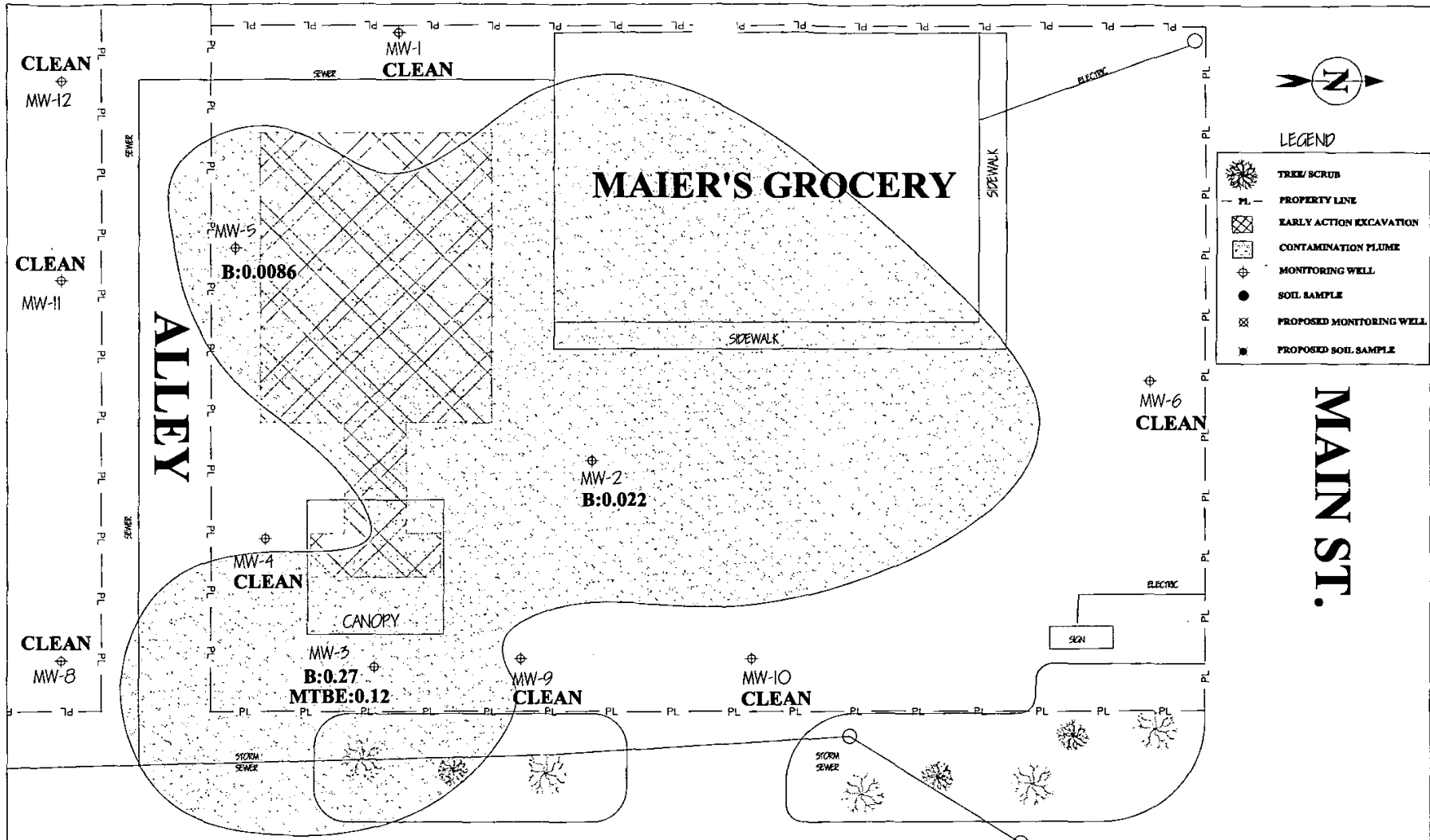


<p>CWM COMPANY, INC. 701 W. SOUTH GRAND SPRINGFIELD, IL. 62704 (217) 522-8001</p>	<p>HUCK'S #131 / MAIERS GROCERY CROSSVILLE, ILLINOIS INCIDENT #09-1397 WHITE COUNTY</p>	<p>BENZENE SOIL CONTAMINATION PLUME MAP</p>	<p>DATE: 7/16/13 REVISED DATE: 12/18/13 SCALE 1"=20' DRAWING: 0007A</p>	<p>DRAWN BY: BMW REVISED BY: MDR REVIEWED BY: CLR BPLUME.DWG</p>
---	--	--	---	--



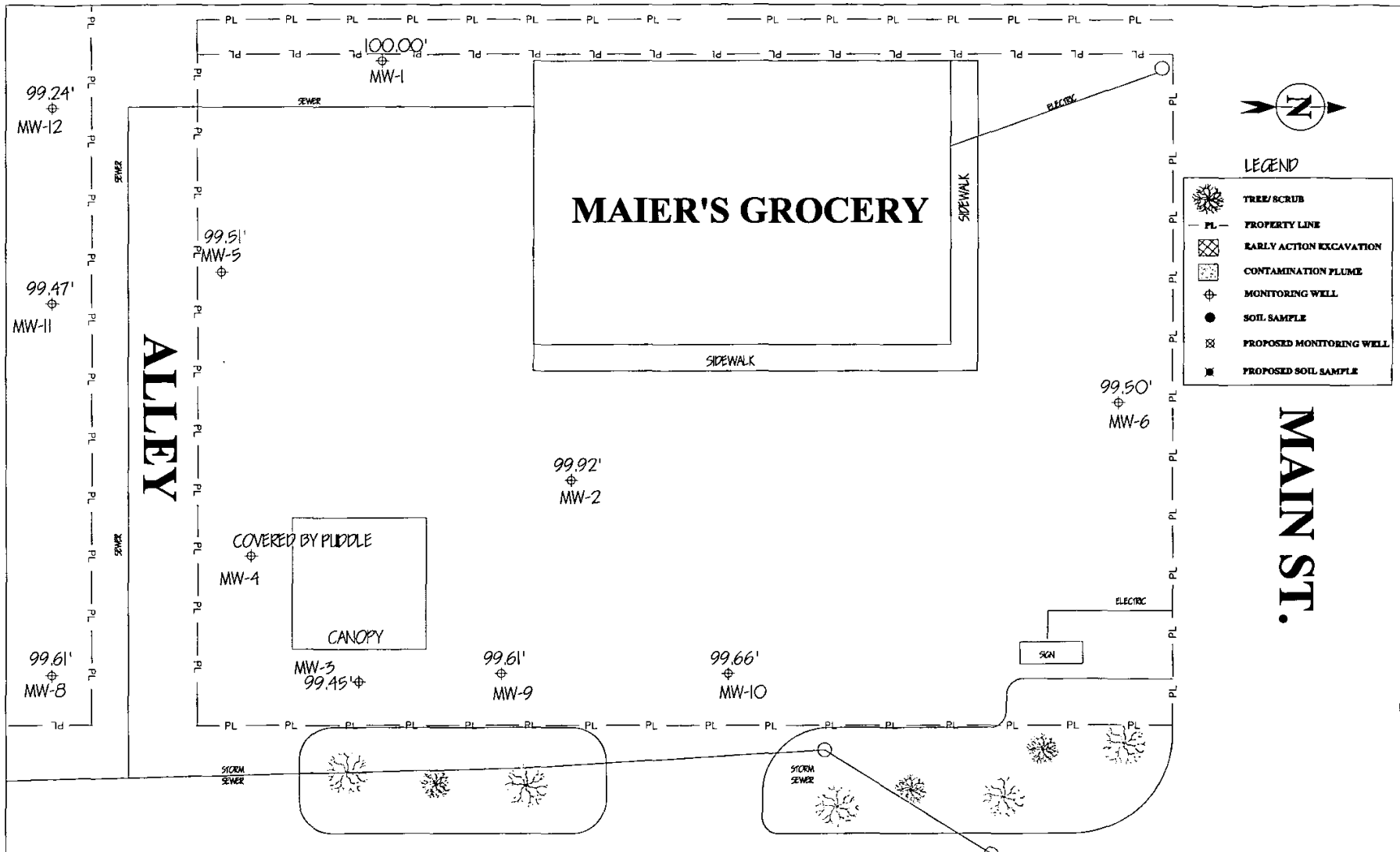
ILLINOIS ROUTES 1 AND 14

CWM COMPANY, INC. 701 W. SOUTH GRAND SPRINGFIELD, IL. 62704 (217) 522-8001	HUCK'S #131 / MAIERS GROCERY CROSSVILLE, ILLINOIS INCIDENT #09-1397 WHITE COUNTY	LEAD VALUES MAP	DATE: 7/16/13 REVISED DATE: SCALE 1"=20' DRAWING: 0007B	DRAWN BY: BMW REVISED BY: MDR REVIEWED BY: CLR LPLUME.DWG
--	---	------------------------	--	--



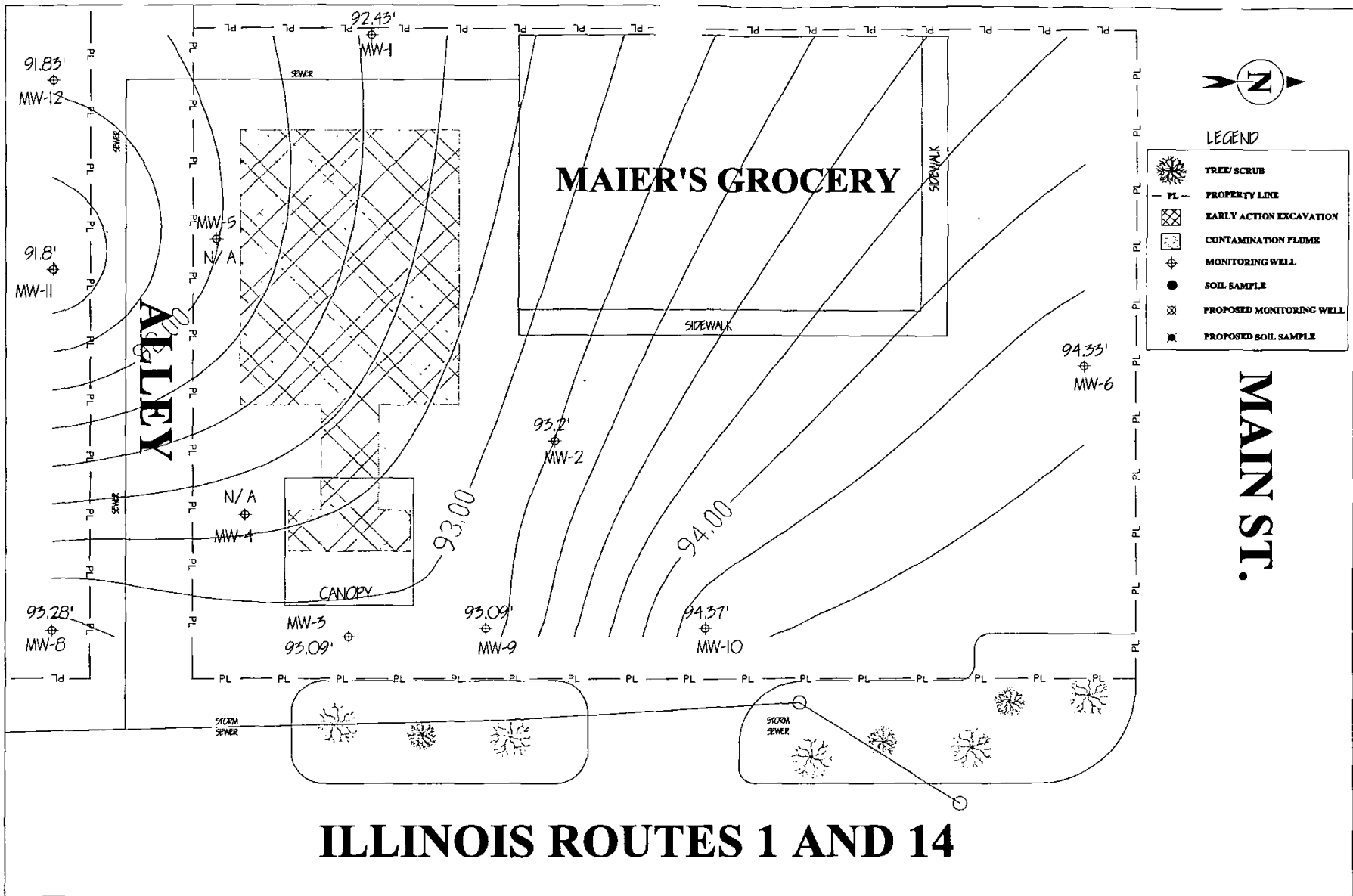
ILLINOIS ROUTES 1 AND 14

<p>CWSM COMPANY, INC. 701 W. SOUTH GRAND SPRINGFIELD, IL. 62704 (217) 522-8001</p>	<p>HUCK'S #131 / MAIERS GROCERY CROSSVILLE, ILLINOIS INCIDENT #09-1397 WHITE COUNTY</p>	<p>GROUNDWATER CONTAMINATION PLUME MAP</p>	<p>DATE: 7/16/13 REVISED DATE: SCALE 1"=20' DRAWING: 0007C</p>	<p>DRAWN BY: BMW REVISED BY: MDR REVIEWED BY: CLR GWCONT.DWG</p>
---	--	---	---	---



ILLINOIS ROUTES 1 AND 14

CWM COMPANY, INC. 701 W. SOUTH GRAND SPRINGFIELD, IL. 62704 (217) 522-8001	HUCK'S #131 / MAIERS GROCERY CROSSVILLE, ILLINOIS INCIDENT #09-1397 WHITE COUNTY	MONITORING WELL ELEVATION MAP	DATE: 6/20/13 REVISED DATE: SCALE 1"=20' DRAWING: 0008	DRAWN BY: BMW REVISED BY: REVIEWED BY: CLR MWelev.dwg
--	---	---	---	---



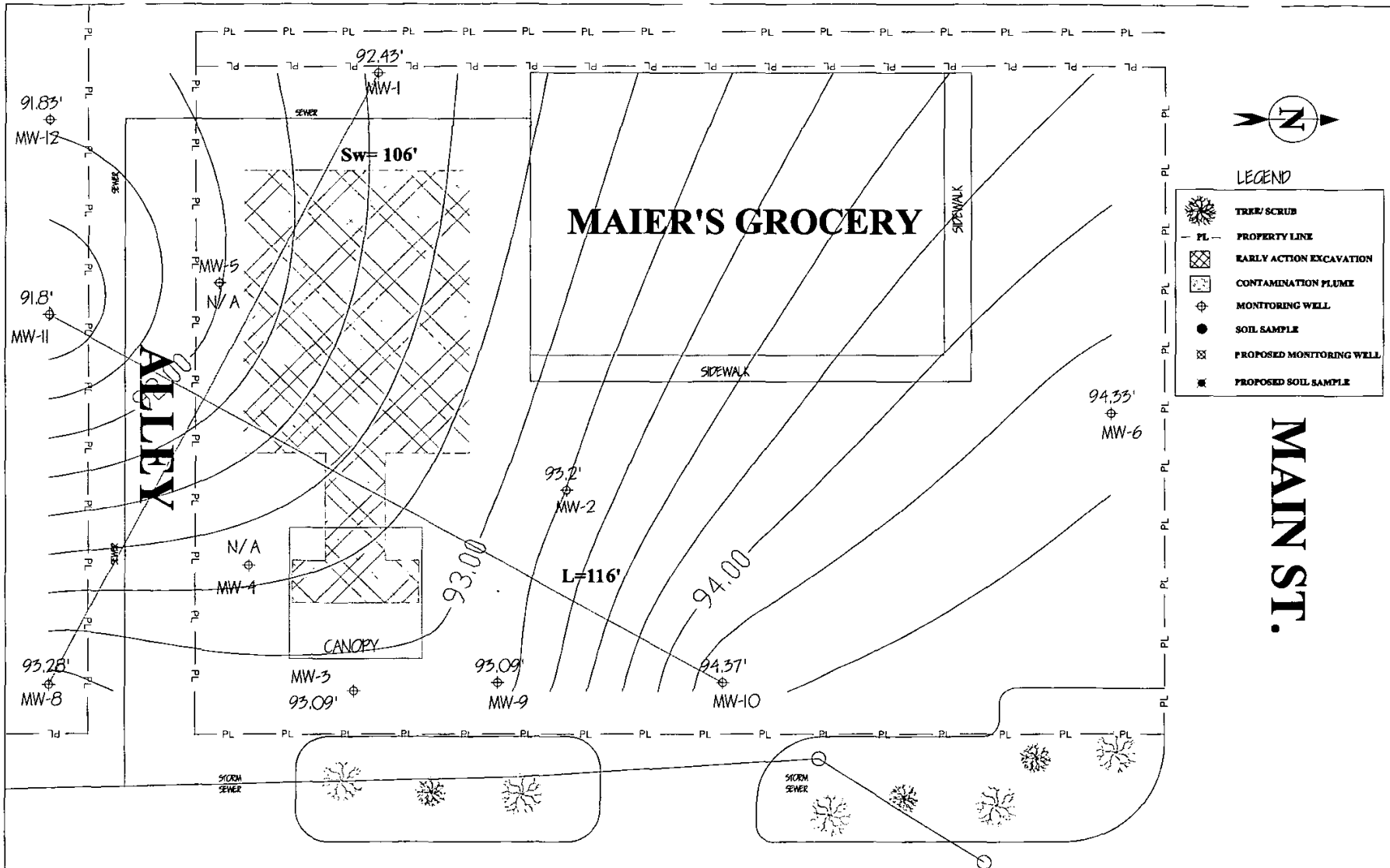
CWM COMPANY, INC.
 701 W. SOUTH GRAND
 SPRINGFIELD, IL. 62704
 (217) 522-8001

**HUCK'S #131 / MAIERS
 GROCERY**
 CROSSVILLE, ILLINOIS
 INCIDENT #09-1397
 WHITE COUNTY

**GROUDWATER
 ELEVATION MAP**
 (JUNE 2012)

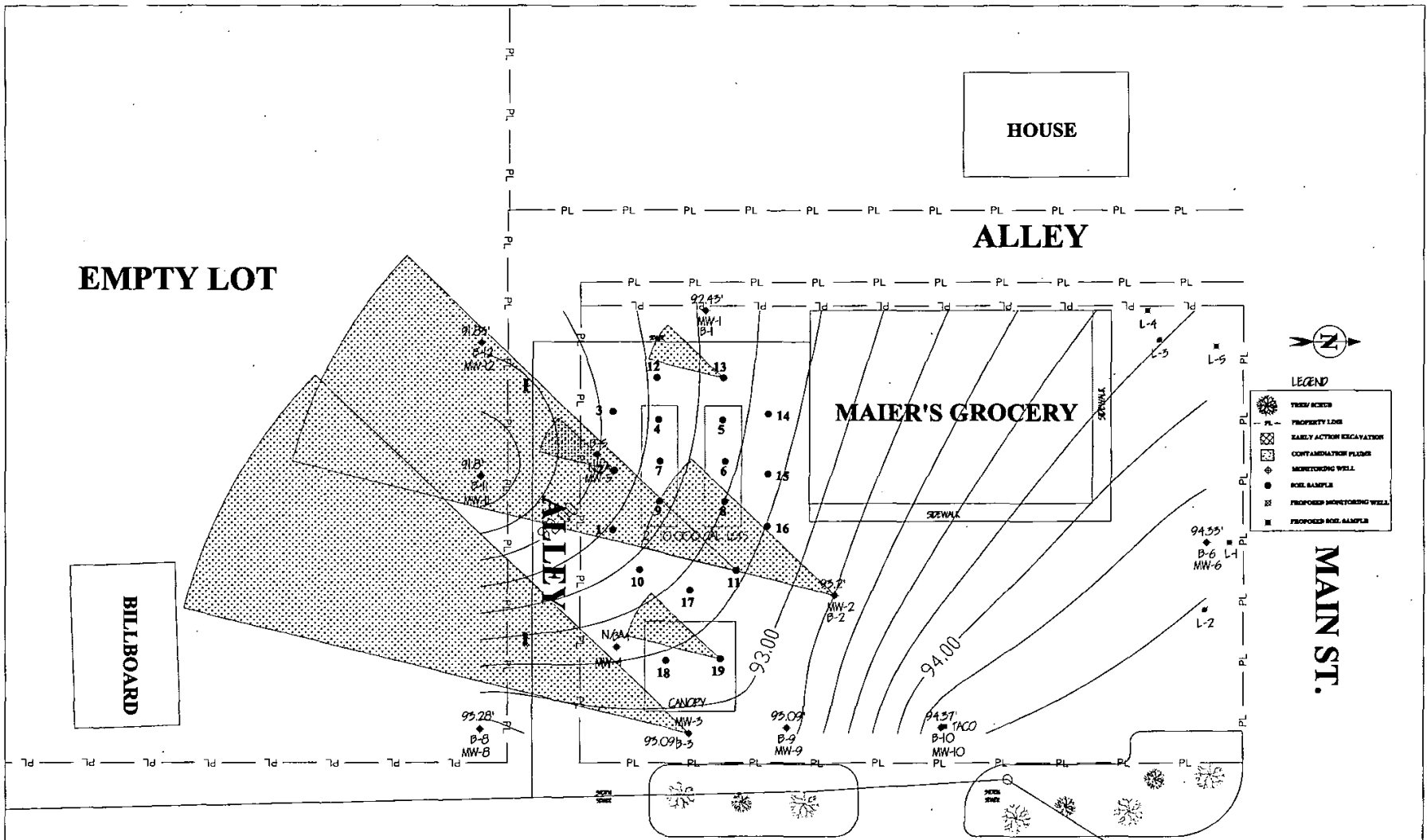
DATE: 7/16/13
REVISED DATE:
 SCALE 1"=20'
DRAWING: 0008A

DRAWN BY: BMW
REVISED BY: MDR
REVIEWED BY: CLR
GWELEV.DWG



ILLINOIS ROUTES 1 AND 14

<p>CWM COMPANY, INC. 701 W. SOUTH GRAND SPRINGFIELD, IL. 62704 (217) 522-8001</p>	<p>HUCK'S #131 / MAIERS GROCERY CROSSVILLE, ILLINOIS INCIDENT #09-1397 WHITE COUNTY</p>	<p>TACO PARAMETERS MAP</p>	<p>DATE: 7/16/13 REVISED DATE: 7/21/14 SCALE 1"=20' DRAWING: 0009</p>	<p>DRAWN BY: BMW REVISED BY: BMW REVIEWED BY: CLR TACO.DWG</p>
---	--	-----------------------------------	---	--



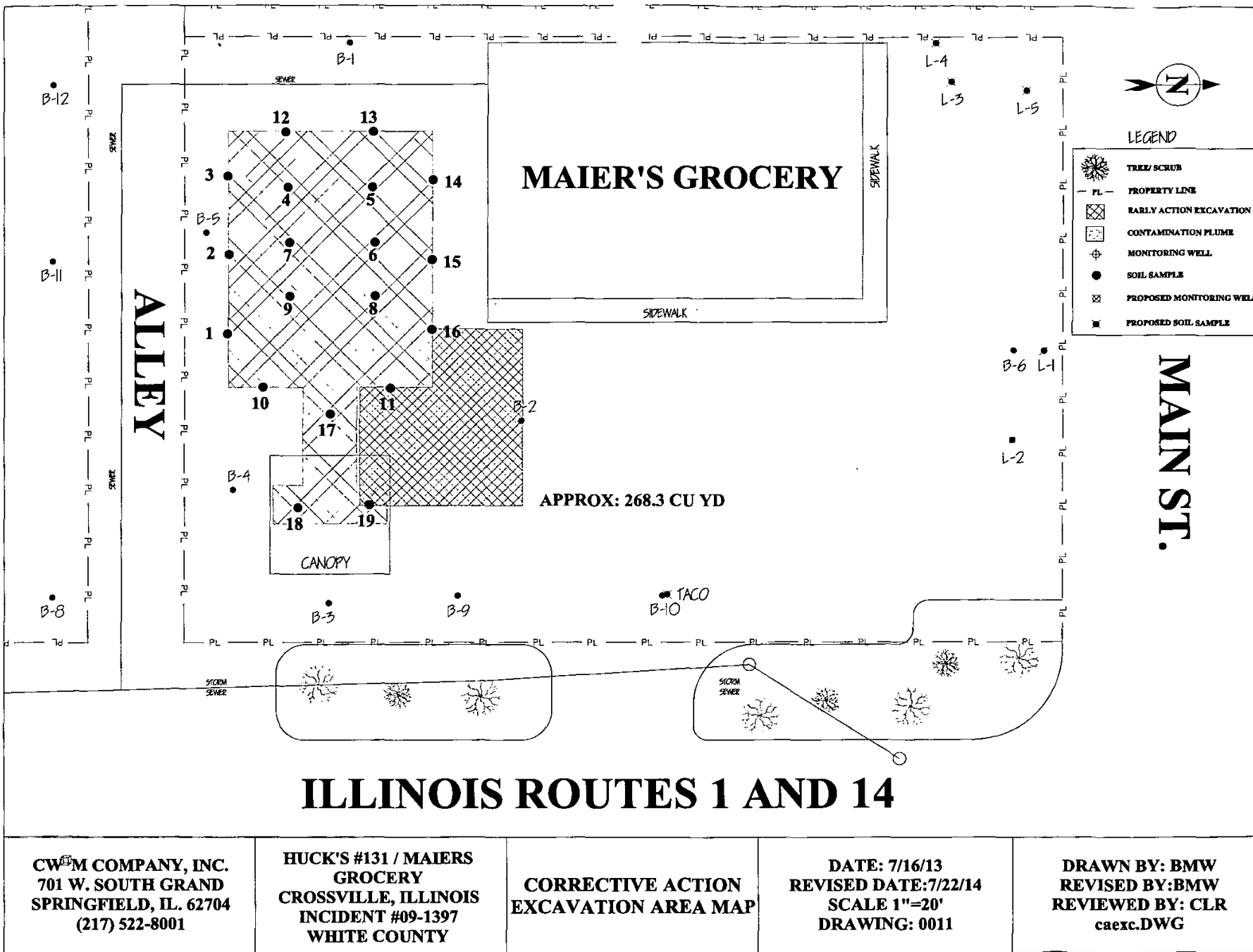
CWM COMPANY, INC.
 701 W. SOUTH GRAND
 SPRINGFIELD, IL. 62704
 (217) 522-8001

HUCK'S #131 / MAIERS
 GROCERY
 CROSSVILLE, ILLINOIS
 INCIDENT #09-1397
 WHITE COUNTY

R-26 MODELING OF
 CONTAMINATION
 MIGRATION MAP

DATE: 7/16/13
 REVISED DATE: 7/22/2014
 SCALE 1"=30'
 DRAWING: 0010

DRAWN BY: BMW
 REVISED BY: BMW
 REVIEWED BY: CLR
 R-26.DWG



CWM COMPANY, INC.
 701 W. SOUTH GRAND
 SPRINGFIELD, IL. 62704
 (217) 522-8001

HUCK'S #131 / MAIERS
 GROCERY
 CROSSVILLE, ILLINOIS
 INCIDENT #09-1397
 WHITE COUNTY

CORRECTIVE ACTION
 EXCAVATION AREA MAP

DATE: 7/16/13
 REVISED DATE: 7/22/14
 SCALE 1"=20'
 DRAWING: 0011

DRAWN BY: BMW
 REVISED BY: BMW
 REVIEWED BY: CLR
 caexc.DWG

APPENDIX C

OSFM ELIGIBILITY DETERMINATION

**CORRECTIVE ACTION PLAN AND BUDGET
HUCK'S #131 - MAIER'S GROCERY
CROSSVILLE, ILLINOIS**



Office of the Illinois
State Fire Marshal
"Partnering With the Fire Service to Protect Illinois"

CERTIFIED MAIL - RECEIPT REQUESTED #7009 2250 0003 8632 1666

March 18, 2010

Martin & Bayley, Inc.
928 County Road 1350 North
Carmi, IL 62821

In Re: Facility No. 7-021663
IEMA Incident No. 09-1397
Meier Grocery #131
109 South State Highway 1
Crossville, White Co., IL

Dear Applicant:

The Reimbursement Eligibility and Deductible Application received on February 16, 2010 for the above referenced occurrence has been reviewed. The following determinations have been made based upon this review.

It has been determined that you are eligible to seek payment of costs in excess of \$10,000. The costs must be in response to the occurrence referenced above and associated with the following tanks:

Eligible Tanks

Tank 1 10,000 gallon Gasoline
Tank 2 10,000 gallon Gasoline

You must contact the Illinois Environmental Protection Agency to receive a packet of Agency billing forms for submitting your request for payment.

An owner or operator is eligible to access the Underground Storage Tank Fund if the eligibility requirements are satisfied:

1. Neither the owner nor the operator is the United States Government,
2. The tank does not contain fuel which is exempt from the Motor Fuel Tax Law,
3. The costs were incurred as a result of a confirmed release of any of the following substances:

"Fuel", as defined in Section 1.19 of the Motor Fuel Tax Law

Aviation fuel

Heating oil

Kerosene

1035 Stevenson Drive • Springfield, IL 67203-4259
Printed on Recycled Paper

Used oil, which has been refined from crude oil used in a motor vehicle, as defined in Section 1.3 of the Motor Fuel Tax Law.

4. The owner or operator registered the tank and paid all fees in accordance with the statutory and regulatory requirements of the Gasoline Storage Act.
5. The owner or operator notified the Illinois Emergency Management Agency of a confirmed release, the costs were incurred after the notification and the costs were a result of a release of a substance listed in this Section. Costs of corrective action or indemnification incurred before providing that notification shall not be eligible for payment.
6. The costs have not already been paid to the owner or operator under a private insurance policy, other written agreement, or court order.
7. The costs were associated with "corrective action".

This constitutes the final decision as it relates to your eligibility and deductibility. We reserve the right to change the deductible determination should additional information that would change the determination become available. An underground storage tank owner or operator may appeal the decision to the Illinois Pollution Control Board (Board), pursuant to Section 57.9 (c) (2). An owner or operator who seeks to appeal the decision shall file a petition for a hearing before the Board within 35 days of the date of mailing of the final decision, (35 Illinois Administrative Code 105.102(a) (2)).

For information regarding the filing of an appeal, please contact:

Dorothy Gunn, Clerk
Illinois Pollution Control Board
State of Illinois Center
100 West Randolph, Suite 11-500
Chicago, Illinois 60601
(312) 814-3620

The following tanks are also listed for this site:

Tank 3 8,000 gallon Gasoline
Tank 4 4,000 gallon Gasoline

Your application indicates that there has not been a release from these tanks under this incident number. You may be eligible to seek payment of corrective action costs associated with these tanks if it is determined that there has been a release from one or more of these tanks. Once it is determined that there has been a release from one or more of these tanks you may submit a separate application for an eligibility determination to seek corrective action costs associated with this/these tanks.

If you have any questions, please contact our Office at (217) 785-1020 or (217) 785-5878.

Sincerely,



Deanne Lock
Administrative Assistant
Division of Petroleum and Chemical Safety

cc: IEPA
Facility File

APPENDIX D

TACO CALCULATIONS AND MODELING

**CORRECTIVE ACTION PLAN AND BUDGET
HUCK'S #131 - MAIER'S GROCERY
CROSSVILLE, ILLINOIS**

R-26 Input/Summary Sheet

Version: 10/25/2013

IEMA Incident # (6 or 8 digit)	2009-1397
IEPA LPC # (10 digit)	1930155021
Site Name:	Huck's #131 / Maler's Grocery
Site Address:	109 South State Street
City:	Crossville
County:	White
Zip Code:	62821
SSL Equations Used:	S5,6,7,8,9,10,17,18,19,20,21,22,24
RBCA Equations Used:	R-1, R-2, R3
Contact Information for Individual who Performed Calculations:	CWM Company, Inc.
Land Use:	Residential & Construction Worker
Objective from S17 used in R26:	No
Groundwater:	Class 1
Standard or Mass Limit Equations:	Standard Equations
Square Feet of Plume for Mass Limit Eq.:	0.00
Date Data Is Entered:	July 21, 2014

Entry	Description	Reference	Shelby Tube Location:
1.398	Holcomb Bulk Density (pcf), or Dry Soil Bulk Density (g/cm ³ or kg/L): 1.5, or Gravel = 2.0, Sand = 1.8, Silt = 1.6, Clay = 1.7, or site specific		
2.523	ps - Soil Particle Density	Reference	
0.446	Total Soil Porosity	0.446	0.446
0.303	Water Filled Porosity	0.303	0.303
0.143	Air Filled Porosity	0.143	0.143
0.430	θ _T - Total Soil Porosity (RBCA)	0.43 or, Gravel = 0.25; Sand = 0.32; Silt = 0.40; Clay = 0.36	
0.230	w - Average Soil Moisture Content	0.1, or: Subsurface Soil (top 1 m) = 0.1; Subsurface Soil (below 1 m) = 0.2; or Site Specific	
Loam	USDA Soil Classification (Pick from List)		

0.00630	Fractional Organic Carbon (foc) in g/g	Organic Matter (%):	Entry
		Organic Matter (mg/kg):	
		Total Organic Carbon (g/g):	0.0063

1.74E-04	Average Hydraulic Conductivity (cm/sec)	Well Name
1.74E-04	Falling Hydraulic Conductivity (cm/sec)	MW-10
	Rising Hydraulic Conductivity (cm/sec)	
0.02216	Hydraulic Gradient (0.02 for sites with no groundwater)	Meters
10	d _a - Aquifer Thickness (ft)	3.048 m
10	d _s - Depth of Source (ft) (Vertical Thickness of Contamination)	3.048 m
100	X - Distance along the centerline of the groundwater plume emanating to setback zone or surface water from the source in the direction of groundwater flow (ft) (RBCA)	3048 cm
118	L - Source Length Parallel to Groundwater Flow (ft)	35.3568 m
105.7	Sw: Source Width -horizontal plane (ft) (RBCA)	3221.736 cm

MW-10	94.37
MW-11	91.80
Distance:	116

C _M - Concentration of Contaminant in groundwater at distance X from the source (mg/L)	Surface Water
Benzene	MTBE
Toluene	
Ethylbenzene	
Total Xylenes	

Benzene	
Toluene	Chrysene
Ethylbenzene	Benzo(k)fluoranthene
Total Xylenes	Indeno(1,2,3-cd)pyrene
MTBE	

- Mass Limit Equations
 Infiltration Equations
 Groundwater Ingestion Equations
 Cset Equations
 Fugitive Dust Equations
 Ingestion Equations
- SSL Equations Needed**

Huck's #131 / Maier's Grocery				
GROUNDWATER CLEAN-UP OBJECTIVES				
(mg/L)				
Parameter	Most Stringent CUO	Class I GW	Class II GW	ADLs (U)
Benzene	0.005	0.005	0.025	<0.002
Ethylbenzene	0.7	0.7	1	<0.002
MTBE	0.07	0.07	0.07	<0.005
Toluene	1.0	1.0	2.5	<0.002
Total Xylenes	10.0	10.0	10.0	<0.005
Acenaphthene	0.42	0.42	2.1	<0.018
Acenaphthylene^	0.21	0.21	1.05	<0.010
Anthracene	2.1	2.1	10.5	<0.0066
Benzo(a)anthracene	0.00013	0.00013	0.00065	<0.00013
Benzo(a)pyrene	0.0002	0.0002	0.002	<0.0002
Benzo(b)fluoranthene	0.00018	0.00018	0.0009	<0.00018
Benzo(g,h,i)perylene^	0.21	0.21	1.05	<0.00076
Benzo(k)fluoranthene	0.00017	0.00017	0.00085	<0.00017
Chrysene	0.0015	0.0015	0.0075	<0.0015
Dibenz(a,h)anthracene	0.0003	0.0003	0.0015	<0.0003
Fluoranthene	0.28	0.28	1.4	<0.0021
Fluorene	0.28	0.28	1.4	<0.0021
Indeno(1,2,3-cd)pyrene	0.00043	0.00043	0.00215	<0.00043
Naphthalene	0.14	0.14	0.22	<0.010
Phenanthrene^	0.21	0.21	1.05	<0.0064
Pyrene	0.21	0.21	1.05	<0.0027
^Temporary Objectives from additional tables -- 10/1/04				
Updated 12/20/04				

Summary of Tier 2 Calculations
 Huck's #131 / Maier's Grocery
 2009-1397
 07/21/14

Table 3

Tier 1 Objectives													
		Benzene		Toluene		Ethylbenzene		Total Xylenes		Naphthalene		MTBE	
Residential	Ingestion	12	mg/kg	16,000	mg/kg	7,800	mg/kg	16,000	mg/kg	1,600	mg/kg	780	mg/kg
	Inhalation	0.8	mg/kg	650	mg/kg	400	mg/kg	320	mg/kg	170	mg/kg	8,800	mg/kg
	Migration Class 1	0.03	mg/kg	12	mg/kg	13	mg/kg	150	mg/kg	12	mg/kg	0.32	mg/kg
	Migration Class 2	0.17	mg/kg	29	mg/kg	19	mg/kg	150	mg/kg	18	mg/kg	0.32	mg/kg
Industrial/Commercial	Ingestion	100	mg/kg	410,000	mg/kg	200,000	mg/kg	410,000	mg/kg	41,000	mg/kg	20,000	mg/kg
	Inhalation	1.60	mg/kg	650	mg/kg	400	mg/kg	320	mg/kg	270	mg/kg	8,800	mg/kg
Construction Worker	Ingestion	2,300	mg/kg	410,000	mg/kg	20,000	mg/kg	41,000	mg/kg	4,100	mg/kg	2,000	mg/kg
	Inhalation	2.20	mg/kg	42	mg/kg	58	mg/kg	5.6	mg/kg	1.80	mg/kg	140	mg/kg
Soil Saturation		580	mg/kg	290	mg/kg	150	mg/kg	110	mg/kg	397.38	mg/kg	8,400	mg/kg

Tier 2 SSL Objectives													
		Benzene	Equation	Toluene	Equation	Ethylbenzene	Equation	Total Xylenes	Equation	Naphthalene	Equation	MTBE	
Residential	Ingestion	11.64	S-2	1,251	S-1	1,564	S-1	3,129	S-1	313	S-1	158.4	S-1
	Inhalation	2.94	S-6	58,188.32	S-4	28,152.80	S-4	22,563.32	S-4	570.22	S-4	8,008.26	S-4
	Migration Mass-Limit Class 1	0.30	S-28	59.14	S-28	41.40	S-28	50.40	S-28	8.28	S-28	4.14	S-28
	Migration Class 1	0.056	S-17	24.80	S-17	31.72	S-17	55.84	S-17	35.89	S-17	0.41	S-17
Industrial-Commercial	Ingestion	104.06	S-2	1,635,200	S-1	204,400	S-1	408,800	S-1	40,880	S-1	20,440	S-1
	Inhalation	5.62	S-6	288,826.12	S-4	283,360.32	S-4	337,609.60	S-4	907.85	S-4	288,328.32	S-4
	Migration Mass-Limit Class 1	0.30	S-28	59.14	S-28	41.40	S-28	50.40	S-28	8.28	S-28	4.14	S-28
	Migration Class 1	0.056	S-17	24.80	S-17	31.72	S-17	55.84	S-17	35.89	S-17	0.41	S-17
Construction Worker	Ingestion	2,258.21	S-3	163,236	S-1	10,202	S-1	81,618	S-1	122,427	S-1	20,405	S-1
	Inhalation	7.91	S-7	702,288	S-5	2,255,288	S-5	90,988	S-5	5.87	S-5	514.60	S-5
Soil Saturation		999.48	S-29	657.13	S-29	385.20	S-29	302.70	S-29	397.38	S-29	14,874.32	S-29

all values are in mg/kg

////// Site Specific Value cannot exceed Soil Saturation Limit, otherwise Tier 2 Inhalation or Tier 2 Migration objectives are the Soil Saturation objective

Groundwater Contaminant Concentration Exceedances at Surface Water or Set Back Zone (mg/L)													
		Benzene	Equation	Toluene	Equation	Ethylbenzene	Equation	Total Xylenes	Equation	Naphthalene	Equation	MTBE	
Result		0.0000	R-26	0.0000	R-26	0.0000	R-26	0.0000	R-26			0.0000	R-26
Surface Water Objective		0.86		0.6		0.014		0.36					

Version: 10/25/2013

**Illinois Environmental Protection Agency
Leaking Underground Storage Tank Program
SSL Input Parameters for Use with Tier 2 Calculations**

A. Site Identification

IEMA Incident # (6- or 8-digit): 2009-1397 IEPA LPC # (10-digit): 1930155021

Site Name: Huck's #131 / Maier's Grocery

Site Address (not a P.O. Box): 109 South State Street

City: Crossville County: White Zip Code: 62821

Leaking UST Technical File

B. Tier 2 Calculation Information

Equation(s) Used (ex: S12,S17,S28): S5,6,7,8,9,10,17,18,19,20,21,22,24

Contact Information for Individual Who Performed Calculations:

CWM Company, Inc.

Land Use: Residential Soil Type: Loam

Groundwater: Class I Class II

Mass Limit: Yes No If Yes, then Specify Acreage: _____

- Mass Limit Acreage other than defaults must always be rounded up.
- Failure to use site-specific parameters where allowed could affect payment from the UST Fund
- Maps depicting source width, plume dimensions, distance, etc. must also be submitted.
- Inputs must be submitted in the designated unit.

AT (ingestion)	=	Residential = 6	yr
		Con. Worker = 0.115	yr
AT (inhalation)	=	Residential = 30	yr
		Con. Worker = 0.115	yr
AT _c	=	70	yr
BW	=	Res. (NonCarcinogen) = 15	kg
		Res. (Carcinogen) = 70	kg
		Con. Worker = 70	kg
C _{sat}	=	Benzene = 999.476	mg/kg
		Toluene = 657.125	mg/kg
		Ethylbenzene = 385.199	mg/kg
		Total Xylenes = 302.704	mg/kg
		MTBE = 14874.321	mg/kg

d _a	=	3.048	m
d _s	=	3.048	m
DA	=	Benzene = 0.000202984070044937	cm ² /s
		Toluene = 0.000105714611023789	cm ² /s
		Ethylbenzene = 5.95877870468648E-05	cm ² /s
		Xylenes = 4.02873365928484E-05	cm ² /s
		MTBE = 4.91932093977654E-05	cm ² /s

Incident # 2009-1397

C_w	=	Benzene = 0.1 mg/L Toluene = 20 mg/L Ethylbenzene = 31.722 mg/L Total Xylenes = 550.371 mg/L MTBE = 0.408 mg/L
d	=	6.615 m
ED (inhalation of carcinogens)	=	Residential = 30 yr Con. Worker = 1 yr
ED (ingestion of noncarcinogens)	=	Residential = 6 yr Con. Worker = 1 yr
ED (inhalation of noncarcinogens)	=	Residential = 30 yr Con. Worker = 1 yr
ED (ingestion of groundwater)	=	Residential = 30 yr Con. Worker = 1 yr
ED_{M-L}	=	70 yr
EF	=	Residential = 350 d/yr Con. Worker = 30 d/yr
$F(x)$	=	0.194 unitless
f_{oc}	=	0.0063 g/g
GW_{obj}	=	Benzene = 0.005 mg/L Toluene = 1 mg/L Ethylbenzene = 0.7 mg/L Total Xylenes = 10 mg/L MTBE = 0.07 mg/L
H'	=	Benzene = 0.23 unitless Toluene = 0.271 unitless Ethylbenzene = 0.324 unitless Total Xylenes = 0.271 unitless MTBE = 0.0241 unitless
i	=	0.022155172 m/m
l	=	0.3 m/yr
I_{M-L}	=	0.18 m/yr
$IF_{soil-adj}$	=	114 (mg-yr)/(kg-d)
IR_{soil}	=	Residential = 200 mg/d Con. Worker = 480 mg/d

D_i	=	Benzene = 0.088 cm ² /s Toluene = 0.087 cm ² /s Ethylbenzene = 0.075 cm ² /s Total Xylenes = 0.0735 cm ² /s MTBE = 0.102 cm ² /s
D_w	=	Benzene = 0.0000102 cm ² /s Toluene = 0.0000086 cm ² /s Ethylbenzene = 0.0000078 cm ² /s Total Xylenes = 0.00000923 cm ² /s MTBE = 0.000011 cm ² /s
DF	=	1.758249813 unitless
ED (ingestion of carcinogens)	=	Con. Worker = 1 yr
K_{oc}	=	Benzene = 50 cm ³ /g or L/kg Toluene = 158 cm ³ /g or L/kg Ethylbenzene = 320 cm ³ /g or L/kg Total Xylenes = 398 cm ³ /g or L/kg MTBE = 11.5 cm ³ /g or L/kg
K_s	=	60 m/yr
L	=	35.3568 m
PEF	=	m ³ /kg
PEF'	=	m ³ /kg
Q/C (VF equations)	=	Residential = 68.81 (g/m ² -s)/(kg/m ³) Con. Worker = 85.81 (g/m ² -s)/(kg/m ³)
Q/C (PEF equations)	=	(g/m ² -s)/(kg/m ³)
RfC (mg/m ³)		Chronic Subchronic
Benzene	=	0.03 0.08
Toluene	=	5 5
Ethylbenzene	=	1 9
Total Xylenes	=	0.1 0.4
MTBE	=	3 2.5
	=	0.003 0.003
	=	NA
	=	NA
	=	NA
	=	NA

Incident # 2009-1397

IR _w	=	Residential = 2	L/d
K	=	54.87264	m/yr
K _d (non-ionizing organics)	=	Benzene = 0.315	cm ² /g or L/kg
		Toluene = 0.9954	cm ² /g or L/kg
		Ethylbenzene = 2.016	cm ² /g or L/kg
		Total Xylenes = 2.5074	cm ² /g or L/kg
		MTBE = 0.07245	cm ² /g or L/kg
K _d (ionizing organics)	=		cm ² /g or L/kg
K _d (inorganics)	=		cm ² /g or L/kg
VF'	=	Benzene = 724.245	m ³ /kg
		Toluene = 1003.573	m ³ /kg
		Ethylbenzene = 1336.713	m ³ /kg
		Total Xylenes = 1625.67	m ³ /kg
		MTBE = 1471.174	m ³ /kg
VM _{M-L}	=	#VALUE!	m ³ /kg
		#VALUE!	m ³ /kg
		#VALUE!	m ³ /kg
		#VALUE!	m ³ /kg
		#VALUE!	m ³ /kg
VF' _{M-L}	=	#VALUE!	m ³ /kg
		#VALUE!	m ³ /kg
		#VALUE!	m ³ /kg
		#VALUE!	m ³ /kg
		#VALUE!	m ³ /kg
η	=	0.446	L _{pore} /L _{soil}
θ _a	=	0.143	L _{air} /L _{soil}

RfD _o mg/(kg-d)	Chronic	Subchronic
Benzene	= 0.004	0.012
Toluene	= 0.08	0.8
Ethylbenzene	= 0.1	0.05
Total Xylenes	= 0.2	0.4
MTBE	= 0.01	0.1
	= 0.02	0.6
	=	0.6
	=	NA
	=	NA
	=	NA
S	=	Benzene = 1800 mg/L
		Toluene = 530 mg/L
		Ethylbenzene = 170 mg/L
		Total Xylenes = 110 mg/L
		MTBE = 51000 mg/L
SF _o	=	Benzene = 0.055 (mg/kg-d) ⁻¹
		Toluene = NA (mg/kg-d) ⁻¹
		Ethylbenzene = 0.011 (mg/kg-d) ⁻¹
		Total Xylenes = NA (mg/kg-d) ⁻¹
		MTBE = NA (mg/kg-d) ⁻¹
T	=	Residential = 9.5E08 s
		Con. Worker = 3.6 x 10 ⁶ s
T _{M-L}	=	30 yr
THQ	=	1 unitless
TR	=	1.00E-06 unitless
U _m	=	4.69 m/s
URF	=	Benzene = 7.8 x 10 ⁻⁶ (μg/m ³) ⁻¹
U _i	=	11.32 m/s
V	=	0.5 unitless
VF	=	Benzene = 9434.307 m ³ /kg
		Toluene = 13072.947 m ³ /kg
		Ethylbenzene = 17412.55 m ³ /kg
		Total Xylenes = 21176.624 m ³ /kg
		MTBE = 19164.1 m ³ /kg
		m ³ /kg
		m ³ /kg
		m ³ /kg
		m ³ /kg
		m ³ /kg

Incident # 2009-1397

θ_w	=	0.303	$L_{\text{water}}/L_{\text{soil}}$
ρ_b	=	1.398	kg/l or g/cm ³
ρ_s	=	2.523	g/cm ³
ρ_w	=	1	g/cm ³
$1/(2b+3)$	=	0.073	unitless

Tier 2 Industrial/Commercial Calculations for Benzene
 Huck's #131 / Malar's Grocery
 2009-1397

Data Compiled: 07/21/14
 Version: 10/25/2013

SSL
 RBCA
 SSL, RBCA
 IRIS/HEAST

Input Values

Parameter	Value	Notes	USDA Soil Classification	Loam
Holcomb's Bulk Density	0	Converted Value to be used in calculation sheet		
Organic Matter (%)	0	FOC % (0.58 conversion)	0.000	0.000
1.398 ρ_d - Dry Soil Bulk Density		1.5 or; Gravel = 2.0, Sand = 1.8; Silt = 1.8; Clay = 1.7; or Site Specific		
2.523 ρ_s - Soil Particle Density		2.65 or; Site Specific		
0.143 θ_a - Air Filled Soil Porosity	0.143	Value from S-21	Top 1 meter = 0.28; below 1 meter = 0.13; Gravel = 0.05; Sand = 0.14; Silt = 0.24; Clay = 0.19; or Calculated Value (S21)	
0.303 θ_w - Water Filled Soil Porosity	0.303	Value from S-20	Top 1 meter = 0.15; below 1 meter = 0.30; Gravel = 0.20; Sand = 0.18; Silt = 0.16; Clay = 0.17; or Calculated Value (S20)	
0.446 θ - SSL: Total Soil Porosity	0.446	Value from S-24	0.43 or; Gravel = 0.25; Sand = 0.32; Silt = 0.40; Clay = 0.38; or Calculated Value (S24)	
0.0221552 I - Hydraulic Gradient		Site Specific		
0.006 foc - Total Organic Carbon (p/g)		Surface Soil = 0.008; Subsurface Soil = 0.002; or Site Specific		
20.000 DF - Dilution Factor	1.758	Value from S-22	If calculated value for DF is less than 20, then 20 default is used, else calculated value is used	
6.616 d - Mixing Zone (m)	6.616	Value from S-25	2; or calculated value	
3.048 d_s - Depth of source (m)		feet = 10	Depth of Source (Vertical thickness of contamination)	
54.87 K - Hydraulic Conductivity (m/yr)	cm/sec = 1.74E-04	Site Specific	1.50E+01 - cm/d	5.49E+03 - cm/yr
35.357 L - Source Length Parallel to Groundwater Flow (m)		feet = 118	Site Specific (m)	
3.048 d_a - Aquifer Thickness (m)		feet = 10	Site Specific (m)	
0.3 I - Infiltration Rate (m/yr)			0.3 for Illinois	
60 K_s - Saturated Hydraulic Conductivity			See Table K for Input Values	
0.005 GW_{R1} - Groundwater Remediation Objective Class 1			< 0.025	GW_{R2} - Groundwater Remediation Objective Class 2
0.073 $1/(2b+3)$ - Exponent for S20			See Table K for Input Values	
70 BW - Body Weight			Residential = 70 (carcinogenic); 15 (non-carcinogenic); Industrial/Commercial = 70; Construction Worker = 70; RBCA = 70	
114 IF_{age} - Age Adjusted Soil Ingestion Factor for Carcinogens			114	
50 IR_{soil} - Soil Ingestion Rate			Residential = 200; Industrial/Commercial = 50; Construction Worker = 480	
0.055 SF_0 - Oral Slope Factor			Benzene = 0.055	
1 IR_d - Daily Water Ingestion Rate			Residential = 2; Industrial/Commercial = 1	
1800 S - Solubility in Water			Benzene = 1750	
1.0E-06 TR - Target Cancer Risk			Residential = 10^{-6} ; Industrial/Commercial = 10^{-6} ; Construction Worker = 10^{-6} at point of human exposure	
70 AT_c - Average Time for Carcinogens			70	
7.80E-06 $IURF$ - Inhalation Unit Risk Factor			Benzene 27.8×10^{-6}	
250 EF - Exposure Frequency			Residential = 350; Industrial/Commercial = 250; Construction Worker = 30	
25 ED - Exposure Duration for Inhalation to Carcinogens			Residential = 30; Industrial/Commercial = 25; Construction Worker = 1	
68.81 QFC - Inverse of the mean concentration at the center of a square source			Residential = 68.81; Industrial/Commercial = 85.81; Construction Worker = 85.81; or Table H	
7.90E-08 T - Exposure Interval			Residential = 9.5×10^8 ; Industrial/Commercial = 7.9×10^8 ; Construction Worker = 3.6×10^8	
30 T_{M1} - Exposure Interval for Mass Limit Volatilization Factor Equation S26			30	
70 ED_{M1} - Exposure Duration for Migration to Groundwater Mass-Limit Equation S26			70	
0.18 i_{M1} - Infiltration Rate for Migration to Groundwater Mass-Limit Equation S28			0.18	
0.088 D_a - Diffusivity in Air			Benzene = 0.088	
0.23 H - Henry's Law Constant			Benzene = 0.228	
1.02E-05 D_w - Diffusivity in Water			Benzene = 9.8×10^{-6}	
50 K_{oc} - Organic Carbon Partition Coefficient			Benzene = 58.9	

Industrial/Commercial Ingestion Tier II Benzene Objective

$$S-3 = \frac{TR \times BW \times AT_c \times 365}{Sf_0 \times 10^6 \times EF \times ED \times IR_{soil}} = \frac{1.0E-06 \times 70 \times 70 \times 365}{0.055 \times 1.00E-06 \times 250 \times 25 \times 50} = \frac{1.8E+00}{1.72E-02} = 104,058 \text{ mg/kg}$$

Construction Worker Ingestion Tier II Benzene Objective

$$S-3 = \frac{TR \times BW \times AT_c \times 365}{Sf_0 \times 10^6 \times EF \times IR_{soil}} = \frac{1.0E-06 \times 70 \times 70 \times 365}{0.055 \times 1.00E-06 \times 30 \times 480} = \frac{1.8E+00}{7.62E-04} = 2258.21 \text{ mg/kg}$$

Tier 2 Industrial/Commercial Calculations for Benzene

Huck's #131 / Male's Grocery
2009-1397

Industrial/Commercial Inhalation Tier II Benzene Objective

$$S-6 = \frac{TR \times ATc \times 365}{URF \times 1000 \times EF \times ED \times 1/VF} = \frac{1.0E-06 \times 70 \times 365}{7.80E-06 \times 1000 \times 250 \times 25 \times (1/1.07E+04)} = \frac{0.02555}{4.54E-03} = 5.623 \text{ mg/kg}$$

Construction Worker Inhalation Tier II Benzene Objective

$$S-7 = \frac{TR \times ATc \times 365}{URF \times 1000 \times EF \times ED \times 1/VF} = \frac{1.0E-06 \times 70 \times 365}{7.80E-06 \times 1000 \times 30 \times 1 \times (1/7.24E+01)} = \frac{0.02555}{3.23E-03} = 7.908 \text{ mg/kg}$$

RESIDENTIAL OR COMMERCIAL

$$S-8 = VF = \frac{Q}{C} \times \frac{(3.14 \times D_A \times T)^{1/2} \times 10^{-4}}{(2 \times \rho_b \times D_A)} = 85.81 \times \frac{(3.14 \times 2.03E-04 \times 7.80E+08)^{1/2} \times 0.0001}{(2 \times 1.398 \times 2.03E-04)} = \frac{6.0890}{0.0006} = 10728.7253$$

Construction Worker

$$S-8 = VF = \frac{Q}{C} \times \frac{(3.14 \times D_A \times T)^{1/2} \times 10^{-4}}{(2 \times \rho_b \times D_A)} = 85.81 \times \frac{(3.14 \times 2.03E-04 \times 3.60E+06)^{1/2} \times 0.0001}{(2 \times 1.398 \times 2.03E-04)} = \frac{0.4110}{0.0005} = 724.2455$$

Equation for Derivation of Volatilization Factor - Construction Worker

$$S-9 = VF' = \frac{VF}{10} = \frac{724.2455}{10} = 72.4246$$

Equation for Derivation of Apparent Diffusivity

$$S-10 = D_A = \frac{(\theta_w^{2.33} \times D_l \times H) + (\theta_w^{2.33} \times D_w)}{\eta^2} \times \frac{1}{(\rho_b \times K_d) + \theta_w + (\theta_w \times H)}$$

$$= \frac{(1.54E-03 \times 0.088 \times 0.230) + (0.0188 \times 1.02E-05)}{0.1989} \times \frac{1}{(1.398 \times 0.315) + 0.30 + (0.143 \times 0.230)} = 2.03E-04$$

Soil Component of the Migration to Groundwater Cleanup Objective (Class 1)

$$S-17 = C_w \times \left[K_d + \frac{(\theta_w + \theta_w \times H)}{\rho_b} \right] = 0.1 \times \left[0.315 + \frac{0.303 + (0.143 \times 0.230)}{1.398} \right] = 0.056 \text{ mg/kg}$$

Tier 2 Industrial/Commercial Calculations for Benzene
 Huck's #131 / Males' Grocery
 2009-1397

Target Soil Leachate Concentration (Class 1)

$$S-18 = C_w = \frac{DF \times GW_{del}}{DF \times GW_{del}} = 20.00 \times 0.005 = 0.1$$

Soil-Water Partition Coefficient

$$S-19 = K_d = K_{oc} \times f_{oc} = 50.00 \times 0.006 = 0.315$$

Water-Filled Porosity

$$S-20 = \theta_w = n \times \frac{1}{K_s}^{1/(2n-2)} = 0.45 \times \left[\frac{0.300}{60.000} \right]^{0.073} = 0.3029$$

Air-Filled Porosity

$$S-21 = \theta_a = n - \theta_w = 0.45 - 0.30 = 0.1430$$

Dilution Factor

$$S-22 = DF = 1 + \frac{K_d \times L \times d}{I \times L} = \frac{54.87 \times 0.0222 \times 6.616}{0.300 \times 35.357} + 1 = 1.7582$$

GW Ingestion

$$S-23 = \frac{TR \times BW \times AL \times 365}{SF_o \times IR_w \times EF \times ED} = \frac{1.0E-06 \times 70 \times 70 \times 365}{0.055 \times 1,000 \times 250 \times 25} = \frac{1.8E+00}{343.75} = 0.0052 \text{ mg/L}$$

Total Soil Porosity

$$S-24 = \eta = 1 - \frac{P_b}{P_s} = 1 - \frac{1.398}{2.523} = 0.4459$$

Estimation of Mixing Zone Depth

$$S-25 = d = (0.0112 \times L^2)^{0.5} \times d_s \left[1 - \exp \left(\frac{-L \times d}{K_d \times I \times d_s} \right) \right]$$

$$= (0.0112 \times 35.357^2)^{0.5} \times 3.048 \times \left[1 - \exp \left(\frac{-35.357 \times 0.3}{54.873 \times 0.0222 \times 3.048} \right) \right] = 6.616 \text{ m}$$

Soil Saturation Limit

$$S-29 = C_{sat} = \frac{S}{P_b} \times [(K_d \times \rho_b) + \theta_w + (H' \times \theta_a)] = \frac{1800}{1.398} \times [(0.315 \times 1.398) + 0.303 + (0.230 \times 0.143)] = 999.48 \text{ mg/kg}$$

Tier 2 Industrial/Commercial Calculations for Toluene
Huck's #131 / Males's Grocery
2009-1357

Date Compiled: 07/21/14
Version: 1025/2013

SSL SSL & RBCA
-- RBCA -- (IRIS/EAST)

Input Values

Parameter	Value	Notes	USDA Soil Classification
Holcomb's Bulk Density	0	Converted Value to be used in calculation sheet	Loam
Organic Matter (%)	0	FOC % (0.58 conversion)	0.000
1.398 ρ_d - Dry Soil Bulk Density		1.5 or Gravel = 2.0; Sand = 1.8; Silt = 1.6; Clay = 1.7; or Site Specific	
2.523 ρ_s - Soil Particle Density		2.65 or Site Specific	
0.143 θ_a - Air Filled Soil Porosity	0.143	Value from S-21 Top 1 meter = 0.28; below 1 meter = 0.13; Gravel = 0.05; Sand = 0.14; Silt = 0.24; Clay = 0.19; or Calculated Value (S21)	
0.303 θ_w - Water Filled Soil Porosity	0.303	Value from S-20 Top 1 meter = 0.15; below 1 meter = 0.30; Gravel = 0.20; Sand = 0.18; Silt = 0.16; Clay = 0.17; or Calculated Value (S20)	
0.446 η - SSL - Total Soil Porosity	0.446	Value from S-24 0.43 or Gravel = 0.25; Sand = 0.32; Silt = 0.40; Clay = 0.36; or Calculated Value (S24 or R23)	
0.0221552 I - Hydraulic Gradient		Site Specific	
0.006 f_{oc} - Total Organic Carbon (g/g)		Surface Soil = 0.006; Subsurface Soil = 0.002; or Site Specific	
20.000 DF - Dilution Factor	1.758	Value from S-22 If calculated value for DF is less than 20, then 20 default is used, else calculated value is used	
6.616 d - Mixing Zone (m)	6.616	Value from S-25 2; or calculated value	
3.048 d_s - Depth of source (m)		feet = 10 Depth of Source (Vertical) thickness of contamination	
54.87 K - Hydraulic Conductivity (m/yr)	1.74E-04	cm/sec = 1.74E-04 Site Specific 1.50E+01 cm/d 5.49E+03 cm/yr Use cm/d for R15, R18, & R26. cm/yr for R24	
35.357 L - Source Length Parallel to Groundwater Flow (m)		feet = 116 Site Specific (m)	
3.048 d_a - Aquifer Thickness (m)		feet = 10 Site Specific (m)	
0.3 I - Infiltration Rate (m/yr)		0.3 for Illinois	
60 K_s - Saturated Hydraulic Conductivity		See Table K for Input Values	
1.000 GW_{obj} - Groundwater Remediation Objective Class 1		2.5 GW_{obj} - Groundwater Remediation Objective Class 2	
0.073 $1/(2b+3)$ - Exponent for S20		See Table K for Input Values	
15 BW - Body Weight		Residential = 70 (carcinogenic); 15 (non-carcinogenic); Industrial/Commercial = 70; Construction Worker = 70; RBCA = 70	
114 IF_{adj} - Age Adjusted Soil Ingestion Factor for Carcinogens		114	
50 IR_{soil} - Soil Ingestion Rate		Residential = 200; Industrial/Commercial = 50; Construction Worker = 480	
1 IR_w - Daily Water Ingestion Rate		Residential = 2; Industrial/Commercial = 1	
530 S - Solubility in Water		Toluene = 526	
1.0E-06 TR - Target Cancer Risk		Residential = 10^{-6} ; Industrial/Commercial = 10^{-6} ; Construction Worker = 10^{-6} at point of human exposure	
250 EF - Exposure Frequency		Residential = 350; Industrial/Commercial = 250; Construction Worker = 30	
25 ED - Exposure Duration for Inhalation for Non-Carcinogens		Residential = 30; Industrial/Commercial = 25; Construction Worker = 1	
68.81 QAC - Inverse of the mean concentration at the center of a square source		Residential = 68.81; Industrial/Commercial = 85.81; Construction Worker = 85.81; or Table H	
7.90E+08 T - Exposure Interval		Residential = 9.5×10^7 ; Industrial/Commercial = 7.9×10^7 ; Construction Worker = 3.6×10^7	
30 T_{vol} - Exposure Interval for Mass Limit Volatilization Factor Equation S26		30	
70 ED_{ML} - Exposure Duration for Migration to Groundwater Mass-Limit Equation S28		70	
0.18 I_{ML} - Infiltration Rate for Migration to Groundwater Mass-Limit Equation S28		0.18	
0.087 D_a - Diffusivity in Air		Toluene = 0.087	
0.271 H' - Henry's Law Constant		Toluene = 0.272	
8.60E-06 D_w - Diffusivity in Water		Toluene = 8.6×10^{-6}	
25 AT - Average Time for Non-Carcinogens In Ingestion Equation		Residential = 6; Industrial/Commercial = 25; Construction Worker = 0.115	
25 AT - Average Time for Non-Carcinogens In Inhalation Equation		Residential = 30; Industrial/Commercial = 25; Construction Worker = 0.115	
1 THQ - Target Hazard Quotient		1	
5 RIC - Inhalation Reference Concentration		Chronic = 5; Subchronic = 5	
0.8 RD_50 - Oral Reference Dose		Chronic = 0.08; Subchronic = 0.8	
158.00 K_{ow} - Organic Carbon Partition Coefficient		Toluene = 182	

Industrial/Commercial Ingestion Remediation Objectives for Non-Carcinogenic Contaminants

$$S-1 = \frac{THQ \times BW \times AT \times 365}{10^6 \times (1/RD_{50}) \times EF \times ED \times IR_{soil}} = \frac{1 \times 70 \times 25 \times 365}{0.000001 \times 1/0.8 \times 250 \times 25 \times 50} = \frac{638750}{0.390625} = 1635200 \text{ mg/kg}$$

Construction Worker Ingestion Remediation Objectives for Non-Carcinogenic Contaminants

$$S-1 = \frac{THQ \times BW \times AT \times 365}{10^6 \times (1/RD_{50}) \times EF \times ED \times IR_{soil}} = \frac{1 \times 70 \times 0.115 \times 365}{0.000001 \times 1/0.8 \times 30 \times 1 \times 480} = \frac{2938.25}{0.018} = 163236 \text{ mg/kg}$$

Inhalation Non-Carcinogenic Residential, Ind/Commercial

$$S-4 = \frac{THQ \times AT \times 365}{EF \times ED \times (1/RIC \times 1/VF)} = \frac{1 \times 25 \times 365}{250 \times 25 \times 1/5 \times 1/14866.59795} = \frac{9125}{0.084081} = 108526.165 \text{ mg/kg}$$

Tier 2 Inhalation Objective cannot exceed Soil Saturation Limit

Inhalation Non-Carcinogenic Construction Worker

$$S-5 = \frac{THQ \times AT \times 365}{EF \times ED \times (1/RIC \times 1/VF)} = \frac{1 \times 0.115 \times 365}{30 \times 1 \times 1/5 \times 1/100.3573769} = \frac{41.975}{0.059786} = 702.083 \text{ mg/kg}$$

Tier 2 Inhalation Objective cannot exceed Soil Saturation Limit

RESIDENTIAL OR COMMERCIAL

$$S-8 = VF = \frac{Q}{C} \times \frac{(3.14 \times D_s \times T)^{1/2} \times 10^{-4}}{(2 \times \rho_s \times D_s)} = 85.81 \times \left(\frac{3.14 \times 1.06E-04 \times 7.90E+08}{2 \times 1.398 \times 1.06E-04} \right)^{1/2} \times 0.0001 = \frac{4.3942}{2.96E-04} = 14866.5979$$

C (Toluene)

Tier 2 Industrial/Commercial Calculations for Toluene
Huck's #131 / Maier's Grocery
2009-1397

Construction Worker

$$S-8 = VF = \frac{Q}{C} \times \frac{(3.14 \times D_p \times T)^{3/2} \times 10^{-4}}{(2 \times \rho_b \times D_d)} = 85.81 \times \frac{\left(\frac{3.14 \times 1.06E-04 \times 3.60E+05}{2 \times 1.398 \times 1.06E-04} \right)^{1/2} \times 0.0001}{2.96E-04} = \frac{0.2956}{2.96E-04} = 1003.5738$$

Equation for Derivation of Volatilization Factor - Construction Worker

$$S-9 = VF' = \frac{VF}{10} = \frac{1003.5738}{10} = 100.3574$$

Equation for Derivation of Apparent Diffusivity

$$S-10 = D_A = \frac{(\theta_w^{1.33} \times D_j \times H) + (\theta_w^{1.33} \times D_w)}{\eta^2} \times \frac{1}{(\rho_b \times K_d) + \theta_w + (\theta_w \times H)}$$

$$= \frac{(1.54E-03 \times 0.087 \times 0.271) + (0.0188 \times 8.60E-06)}{0.1989} \times \frac{1}{(1.398 \times 0.9954) + 0.30 + (0.143 \times 0.271)} = 1.06E-04$$

Soil Component of the Migration to Groundwater Cleanup Objective (Class 1)

$$S-17 = C_w \times \left[K_d + \frac{(\theta_w + \theta_w \times H)}{\rho_b} \right] = 20 \times \left[0.9954 + \left(\frac{0.303 + 0.143 \times 0.271}{1.398} \right) \right] = 24.797 \text{ mg/kg}$$

Target Soil Leachate Concentration (Class 1)

$$S-18 = C_w = DF \times GW_{obj} = 20.00 \times 1.000 = 20$$

Soil-Water Partition Coefficient

$$S-19 = K_d = K_{oc} \times f_{oc} = 158.00 \times 0.006 = 0.9954$$

Water-Filled Porosity

$$S-20 = \theta_w = \eta \times \frac{1}{K_c}^{1/(2n-2)} = 0.45 \times \left[\frac{0.300}{60.000} \right]^{0.973} = 0.3029$$

Tier 2 Industrial/Commercial Calculations for Toluene
Huck's #131 / Maler's Grocery
2009-1397

Air-Filled Porosity

$$S-21 = \theta_a = \eta - \theta_w = 0.45 - 0.30 = 0.1430$$

Dilution Factor

$$S-22 = DF = 1 + \frac{K \times l \times d}{l \times L} = \frac{54.87 \times 0.0222 \times 6.616}{0.300 \times 35.357} + 1 = 1.7582$$

GW Ingestion

$$S-23 = \frac{TR \times BW \times A_L \times 365}{SF_a \times IR_a \times EF \times ED} = \frac{1.0E-06 \times 15 \times 0 \times 365}{0.000 \times 1,000 \times 250 \times 25} = \frac{0.0E+00}{0} = \text{\#DIV/0!} \text{ mg/L}$$

Total Soil Porosity

$$S-24 = \eta = 1 - \frac{P_b}{P_s} = 1 - \frac{1.398}{2.523} = 0.4459$$

Estimation of Mixing Zone Depth

$$S-25 = d = (0.0112 \times L)^{0.5} + d_0 \left[1 - \exp \left(\frac{-(L \times D)}{(K \times l \times d_0)} \right) \right]$$

$$= (0.0112 \times 35.357)^{0.5} + 3.048 \times \left[1 - \exp \left(\frac{-35.357 \times 0.3}{54.873 \times 0.0222 \times 3.048} \right) \right] = 6.616 \text{ m}$$

Soil Saturation Limit

$$S-29 = C_{sat} = \frac{S}{P_b} \times [(K_d \times p_b) + \theta_w + (H' \times \theta_a)] = \frac{530}{1.398} \times [(0.9954 \times 1.398) + 0.303 + (0.271 \times 0.143)] = 657.13 \text{ mg/kg}$$

Tier 2 Industrial/Commercial Calculations for Ethylbenzene
 Huck's #131 / Males's Grocery
 2009-1397

SSL
 RBCA
 SSL & RBCA
 IRIS/EAST

Date Compiled: 07/21/14
 Version: 10/25/2013

Input Values

Parameter	Value	Notes	USDA Soil Classification
Moisture Bulk Density	0	Converted Value to be used in calculation sheet	Loam
Organic Matter (%)	0	FOC % (0.58 conversion)	0.000
1.398	ρ_s - Dry Soil Bulk Density	1.5 or Gravel = 2.0; Sand = 1.8; Silt = 1.6; Clay = 1.7; or Site Specific	
2.523	ρ_{ss} - Soil Particle Density	2.65 or Site Specific	
0.143	θ_a - Air Filled Soil Porosity	0.143 Value from S-21 Top 1 meter = 0.28; below 1 meter = 0.13; Gravel = 0.05; Sand = 0.14; Silt = 0.24; Clay = 0.19, or Calculated Value (S21)	
0.303	θ_w - Water Filled Soil Porosity	0.303 Value from S-20 Top 1 meter = 0.15; below 1 meter = 0.30; Gravel = 0.20; Sand = 0.18; Silt = 0.16; Clay = 0.17, or Calculated Value (S20)	
0.446	η - SSL - Total Soil Porosity	0.446 Value from S-24 0.43 or Gravel - 0.25; Sand = 0.32; Silt = 0.40; Clay = 0.38; or Calculated Value (S24)	
0.0221552	I - Hydraulic Gradient	Site Specific	
0.006	foc - Total Organic Carbon (g/g)	Surface Soil = 0.006; Subsurface Soil = 0.002; or Site Specific	
20.000	DF - Dilution Factor	1.758 Value from S-22 If calculated value for DF is less than 20, then 20 default is used, else calculated value is used	
6.616	d - Mixing Zone (m)	6.616 Value from S-25 2, or calculated value	
3.048	d_s - Depth of source (m)	feet = 10 Depth of Source (Vertical thickness of contamination)	
54.87	K - Hydraulic Conductivity (m/yr)	cm/sec = 1.74E-04 Site Specific 1.50E+01 cm/d 5.49E+03 cm/yr Use cm/d for R15, R18, & R26. cm/yr for R24	
35.357	L - Source Length Parallel to Groundwater Flow (m)	feet = 116 Site Specific (m)	
3.048	d_a - Aquifer Thickness (m)	feet = 10 Site Specific (m)	
0.3	I - Infiltration Rate (m/yr)	0.3 for Illinois	
60	K_s - Saturated Hydraulic Conductivity	See Table K for Input Values	
0.700	GW_{R1} - Groundwater Remediation Objective Class 1	1 / GW_{R1} - Groundwater Remediation Objective Class 2	
0.073	1/(2n+3) - Exponent for S20	See Table K for Input Values	
70	BW - Body Weight	Residential = 70 (carcinogenic); 15 (non-carcinogenic); Industrial/Commercial = 70; Construction Worker = 70; RBCA = 70	
114	IF_{adj} - Age Adjusted Soil Ingestion Factor for Carcinogens	114	
50	IR_{soil} - Soil Ingestion Rate	Residential = 200; Industrial/Commercial = 50; Construction Worker = 480	
1	IR_{water} - Daily Water Ingestion Rate	Residential = 2; Industrial/Commercial = 1	
170	S - Solubility in Water	Ethylbenzene = 169	
1.0E-06	TR - Target Cancer Risk	Residential = 10^{-6} ; Industrial/Commercial = 10^{-6} ; Construction Worker = 10^{-6} at point of human exposure	
250	EF - Exposure Frequency	Residential = 350; Industrial/Commercial = 250; Construction Worker = 30	
25	ED - Exposure Duration for Inhalation for Non-Carcinogens	Residential = 30; Industrial/Commercial = 25; Construction Worker = 1	
68.81	Q/C - Inverse of the mean concentration at the center of a square source	Residential = 68.81; Industrial/Commercial = 85.81; Construction Worker = 85.81; or Table H	
7.80E+06	T - Exposure Interval	Residential = 9.5×10^6 ; Industrial/Commercial = 7.9×10^6 ; Construction Worker = 3.6×10^6	
30	T_{vol} - Exposure Interval for Math Limit Volatilization Factor Equation S26	30	
70	ED_{DL} - Exposure Duration for Migration to Groundwater Mass-Limit Equation S28	70	
0.18	α_{DL} - Infiltration Rate for Migration to Groundwater Mass-Limit Equation S28	0.18	
0.075	D_a - Diffusivity in Air	Ethylbenzene = 0.075	
0.324	H - Henry's Law Constant	Ethylbenzene = 0.323	
7.80E-06	D_w - Diffusivity in Water	Ethylbenzene = 7.8×10^{-6}	
25	AT - Average Time for Non-Carcinogens in Ingestion Equation	Residential = 6; Industrial/Commercial = 25; Construction Worker = 0.115	
25	AT - Average Time for Non-Carcinogens in Inhalation Equation	Residential = 30; Industrial/Commercial = 25; Construction Worker = 0.115	
1	THQ - Target Hazard Quotient	1	
1	RIC - Inhalation Reference Concentration	Chronic = 1; Subchronic = 9	
0.1	RD _o - Oral Reference Dose	Chronic = 0.1; Subchronic = 0.05	
320.00	K_{oc} - Organic Carbon Partition Coefficient	Ethylbenzene = 363	

Industrial/Commercial Ingestion Remediation Objectives for Non-Carcinogenic Contaminants

$$S-1 = \frac{THQ \times BW \times AT \times 365}{10^6 \times (1/RD_o) \times EF \times ED \times IR_{soil}} = \frac{1 \times 70 \times 25 \times 365}{0.000001 \times 1/1 \times 0.1 \times 250 \times 25 \times 50} = \frac{638750}{3.125} = 204400 \text{ mg/kg}$$

Construction Worker Ingestion Remediation Objectives for Non-Carcinogenic Contaminants

$$S-1 = \frac{THQ \times BW \times AT \times 365}{10^6 \times (1/RD_o) \times EF \times ED \times IR_{soil}} = \frac{1 \times 70 \times 0.115 \times 365}{0.000001 \times 1/1 \times 0.05 \times 30 \times 1 \times 480} = \frac{2938.25}{0.288} = 10202 \text{ mg/kg}$$

Inhalation Non-Carcinogenic Residential, Ind/Commercial

$$S-4 = \frac{THQ \times AT \times 365}{EF \times ED \times (1/RIC \times 1/VF)} = \frac{1 \times 25 \times 365}{250 \times 25 \times 1/1 \times 1 \times 1/19801.60679} = \frac{9125}{0.315631} = 28910 \text{ mg/kg}$$

Tier 2 Inhalation Objective cannot exceed Soil Saturation Limit

Inhalation Non-Carcinogenic Construction Worker

$$S-5 = \frac{THQ \times AT \times 365}{EF \times ED \times (1/RIC \times 1/VF)} = \frac{1 \times 0.115 \times 365}{30 \times 1 \times 1/1 \times 9 \times 1/133.6713028} = \frac{41.975}{0.024937} = 1683.256 \text{ mg/kg}$$

Tier 2 Inhalation Objective cannot exceed Soil Saturation Limit

RESIDENTIAL OR COMMERCIAL

$$S-8 = VF = \frac{0}{c} \times \frac{(3.14 \times D_a \times T)^{1/2} \times 10^4}{(2 \times \rho_s \times D_a)} = 65.81 \times \frac{(3.14 \times 5.96E-05 \times 7.90E+08)^{1/2} \times 0.0001}{(2 \times 1.398 \times 5.96E-05)} = \frac{3.2991}{1.67E-04} = 19801.6068$$

C (Ethylbenzene)

Tier 2 Industrial/Commercial Calculations for Ethylbenzene
Huck's #131 / Malar's Grocery
2009-1397

Construction Worker

$$S-8 = VF = \frac{Q}{C} \times \frac{(3.14 \times D_A \times T)^{1/2} \times 10^{-6}}{(2 \times \rho_b \times D_d)} = 85.81 \times \frac{3.14 \times 5.96E-05 \times 3.60E+06}{2 \times 1.398 \times 5.96E-05} \times \frac{0.0001}{1.67E-04} = \frac{0.2227}{1.67E-04} = 1336.7130$$

Equation for Derivation of Volatilization Factor - Construction Worker

$$S-9 = VF' = \frac{VF}{10} = \frac{1336.7130}{10} = 133.6713$$

Equation for Derivation of Apparent Diffusivity

$$S-10 = D_A = \frac{(D_w^{1.25} \times D_s \times H) + (D_w^{1.25} \times D_w)}{\eta^2} \times \frac{1}{(\rho_b \times K_d) + \theta_w + (\theta_w \times H)}$$

$$= \frac{(1.54E-03 \times 0.075 \times 0.324) + (0.0188 \times 7.80E-06)}{0.1989} \times \frac{1}{(1.398 \times 2.016) + 0.30 + (0.143 \times 0.324)} = 5.96E-05$$

Soil Component of the Migration to Groundwater Cleanup Objective (Class 1)

$$S-17 = C_w \times \left[K_d + \frac{(\theta_w + \theta_w \times H)}{\rho_b} \right] = 14 \times \left[2.016 + \left(\frac{0.303 + 0.143 \times 0.324}{1.398} \right) \right] = 31.722 \text{ mg/kg}$$

Target Soil Leachate Concentration (Class 1)

$$S-18 = C_w = DF \times GW_{obj} = 20.00 \times 0.700 = 14$$

Soil-Water Partition Coefficient

$$S-19 = K_d = K_{oc} \times f_{oc} = 320.00 \times 0.006 = 2.016$$

Water-Filled Porosity

$$S-20 = \theta_w = \eta \times \frac{1}{K_c}^{1/(2 \times 3)} = 0.45 \times \left[\frac{0.300}{60.000} \right]^{0.273} = 0.3029$$

Tier 2 Industrial/Commercial Calculations for Ethylbenzene
 Huck's #131 / Maier's Grocery
 2009-1387

Air-Filled Porosity
 S-21 = $\theta_a = \eta - e_v = 0.45 - 0.30 = 0.1430$

Dilution Factor
 S-22 = $DF = 1 + \frac{K \times I \times d}{I \times L} = \frac{54.87 \times 0.0222 \times 6.616}{0.300 \times 35.357} + 1 = 1.7582$

GW Ingestion
 S-23 = $\frac{TR \times BW \times A_L \times 365}{SF_a \times IR_a \times EF \times ED} = \frac{1.0E-06 \times 70 \times 0 \times 365}{0.000 \times 1.000 \times 250 \times 25} = \frac{0.0E+00}{0} = \text{\#DIV/0! mg/L}$

Total Soil Porosity
 S-24 = $\eta = 1 - \frac{p_s}{p_s} = 1 - \frac{1.398}{2.523} = 0.4459$

Estimation of Mixing Zone Depth
 S-25 = $d = (0.0112 \times L^{2.65} + d_e) \left[1 - \exp \left(\frac{-L \times I}{(K \times I \times d_e)} \right) \right]$
 $= (0.0112 \times 35.357^{2.65} + 3.048) \times \left[1 - \exp \left(\frac{-35.357 \times 0.3}{54.873 \times 0.0222 \times 3.048} \right) \right] = 6.616 \text{ m}$

Soil Saturation Limit
 S-29 = $C_{sat} = \frac{S}{p_b} \times [(K_d \times pb) + \theta_w + (H' \times ea)] = \frac{170}{1.398} \times [(2.016 \times 1.398) + 0.303 + (0.324 \times 0.143)] = 385.20 \text{ mg/kg}$

Tier 2 Industrial/Commercial Calculations for Total Xylenes
 Huck's #131 / Males's Grocery
 2009-1397

Date Compiled: 07/21/14
 Version: 10/25/2013

SSL & RBCA
 RBCA IRIS/EAST

Input Values

Parameter	Value	Notes	USDA Soil Classification
Holcomb's Bulk Density	0	Converted Value to be used in calculation sheet	Loam
Organic Matter (%)	0	FOC % (0.58 conversion)	0.000
Organic Matter (mg/kg)	0	FOC mg/kg (0.58 conversion)	0.000
1.398 ρ_d - Dry Soil Bulk Density		1.5 or; Gravel = 2.0; Sand = 1.8; Silt = 1.8; Clay = 1.7; or Site Specific	
2.523 ρ_s - Soil Particle Density		2.65 or; Site Specific	
0.143 θ_a - Air Filled Soil Porosity	0.143	Value from S-21	Top 1 meter = 0.28; below 1 meter = 0.13; Gravel = 0.05; Sand = 0.14; Silt = 0.24; Clay = 0.19; or Calculated Value (S21)
0.303 θ_w - Water Filled Soil Porosity	0.303	Value from S-20	Top 1 meter = 0.15; below 1 meter = 0.30; Gravel = 0.20; Sand = 0.18; Silt = 0.16; Clay = 0.17; or Calculated Value (S20)
0.446 η - SSL: Total Soil Porosity	0.446	Value from S-24	0.43 or; Gravel = 0.25; Sand = 0.32; Silt = 0.40; Clay = 0.36; or Calculated Value (S24)
0.0221552 i - Hydraulic Gradient		Site Specific	
0.006 f_{oc} - Total Organic Carbon (g/g)		Surface Soil = 0.008; Subsurface Soil = 0.002; or Site Specific	
20.000 DF - Dilution Factor	1.758	Value from S-22	If calculated value for DF is less than 20, then 20 default is used, else calculated value is used
6.616 d - Mixing Zone (m)	6.616	Value from S-25	2; or calculated value
3.048 d_s - Depth of source (m)		feet = 10	Depth of Source (Vertical thickness of contamination)
54.87 K - Hydraulic Conductivity (m/yr)	cm/sec = 1.74E-04	Site Specific	1.50E+01 cm/d; 5.49E+03 cm/yr; Use cm/d for R15, R19, & R26. cm/yr for R24
35.357 L - Source Length Parallel to Groundwater Flow (m)		feet = 118	Site Specific (m)
3.048 d_a - Aquifer Thickness (m)		feet = 10	Site Specific (m)
0.3 i - Infiltration Rate (m/yr)			0.3 for Illinois
60 K_s - Saturated Hydraulic Conductivity			See Table K for Input Values
10.000 GW_{M1} - Groundwater Remediation Objective Class 1			= 10; GW_{M2} - Groundwater Remediation Objective Class 2
0.073 $1/(2b+3)$ - Exponent for S20			See Table K for Input Values
70 BW - Body Weight			Residential = 70 (carcinogenic); Industrial/Commercial = 70; Construction Worker = 70; RBCA = 70
114 IF_{adj} - Age Adjusted Soil Ingestion Factor for Carcinogens			114
50 IR_{soil} - Soil Ingestion Rate			Residential = 200; Industrial/Commercial = 50; Construction Worker = 480
1 IR_w - Daily Water Ingestion Rate			Residential = 2; Industrial/Commercial = 1
110 S - Solubility in Water			Total Xylenes = 188
1.0E-06 TR - Target Cancer Risk			Residential = 10^{-6} ; Industrial/Commercial = 10^{-6} ; Construction Worker = 10^{-6} at point of human exposure
250 EF - Exposure Frequency			Residential = 350; Industrial/Commercial = 250; Construction Worker = 30
25 ED - Exposure Duration for Inhalation for Non-Carcinogens			Residential = 30; Industrial/Commercial = 25; Construction Worker = 1
68.81 Q/C - Inverse of the mean concentration at the center of a square source			Residential = 68.81; Industrial/Commercial = 85.81; Construction Worker = 85.81; or Table H
7.90E+08 T - Exposure Interval			Residential = 9.5×10^7 ; Industrial/Commercial = 7.9×10^7 ; Construction Worker = 3.6×10^7
30 T_{vol} - Exposure Interval for Mass Limit Volatilization Factor Equation S26			30
70 ED_{vol} - Exposure Duration for Migration to Groundwater Mass-Limit Equation S28			70
0.18 μ_{vol} - Infiltration Rate for Migration to Groundwater Mass-Limit Equation S28			0.18
0.074 D_a - Diffusivity in Air			Total Xylenes = 0.072
0.271 H' - Henry's Law Constant			Total Xylenes = 0.25
9.23E-06 D_w - Diffusivity in Water			Total Xylenes = 9.34×10^{-4}
25 AT - Average Time for Non-Carcinogens In Ingestion Equation			Residential = 6; Industrial/Commercial = 25; Construction Worker = 0.115
25 AT - Average Time for Non-Carcinogens In Inhalation Equation			Residential = 30; Industrial/Commercial = 25; Construction Worker = 0.115
1 THQ - Target Hazard Quotient			1
0.1 RTC - Inhalation Reference Concentration			Chronic = 0.1; Subchronic = 0.4
0.2 RD_50 - Oral Reference Dose			Chronic = 0.2; Subchronic = 0.4
398.00 K_{ow} - Organic Carbon Partition Coefficient			Total Xylenes = 260

Industrial/Commercial Ingestion Remediation Objectives for Non-Carcinogenic Contaminants

$$S-1 = \frac{THQ \times BW \times AT \times 365}{10^{-6} \times (1/IRIC) \times EF \times ED \times K_{ow}} = \frac{1 \times 70 \times 25 \times 365}{10^{-6} \times 1 \times 250 \times 25} = \frac{638750}{1.3025} = 498188 \text{ mg/kg}$$

Construction Worker Ingestion Remediation Objectives for Non-Carcinogenic Contaminants

$$S-1 = \frac{THQ \times BW \times AT \times 365}{10^{-6} \times (1/IRIC) \times EF \times ED \times K_{ow}} = \frac{1 \times 70 \times 0.115 \times 365}{10^{-6} \times 1 \times 30 \times 1} = \frac{2938.25}{0.336} = 8744 \text{ mg/kg}$$

Inhalation Non-Carcinogenic Residential, Ind/Commercial

$$S-4 = \frac{THQ \times AT \times 365}{EF \times ED \times (1/IRIC \times 1/VF)} = \frac{1 \times 25 \times 365}{250 \times 25 \times 0.1 \times 1} = \frac{9125}{2.595285804} = 3515.990 \text{ mg/kg}$$

Tier 2 Inhalation Objective cannot exceed Soil Saturation Limit

Inhalation Non-Carcinogenic Construction Worker

$$S-5 = \frac{THQ \times AT \times 365}{EF \times ED \times (1/IRIC \times 1/VF)} = \frac{1 \times 0.115 \times 365}{30 \times 1 \times 0.4 \times 1} = \frac{41.975}{0.461348096} = 90.983 \text{ mg/kg}$$

RESIDENTIAL OR COMMERCIAL

$$S-8 = VF = \frac{O}{C} \times \frac{(0.14 \times D_s \times T)^{1/2} \times 10^{-4}}{(2 \times \rho_s \times D_w)} = 85.81 \times \left\{ \frac{3.14 \times 4.03E-05 \times 7.90E+08}{2 \times 2.65 \times 9.23E-06} \right\}^{1/2} \times 0.0001 = \frac{2.7127}{1.13E-04} = 24082.1261$$

C (Xylenes)

Tier 2 Industrial/Commercial Calculations for Total Xylenes
 Huck's #131 / Maier's Grocery
 2009-1397

Construction Worker

$$S-8 = VF = \frac{Q}{C} \times \frac{(3.14 \times D_a \times T)^{1/2} \times 10^{-4}}{(2 \times \rho_b \times D_a)} = 85.81 \times \left(\frac{3.14 \times 4.03E-05 \times 3.60E+06}{2 \times 1.398 \times 4.03E-05} \right)^{1/2} \times 0.0001 = \frac{0.1831}{1.13E-04} = 1625.6705$$

Equation for Derivation of Volatilization Factor - Construction Worker

$$S-9 = VF' = \frac{VF}{10} = \frac{1625.6705}{10} = 162.5671$$

Equation for Derivation of Apparent Diffusivity

$$S-10 = D_A = \frac{(\theta_w^{2.33} \times D_s \times H) + (\theta_w^{2.33} \times D_w)}{\eta^2} \times \frac{1}{(\rho_w \times K_d) + \theta_w + (\theta_w \times H)}$$

$$= \frac{\{ 1.54E-03 \times 0.074 \times 0.271 \} + \{ 0.0188 \times 9.23E-06 \}}{0.1989} \times \frac{1}{(1.398 \times 2.5074) + 0.30 + (0.143 \times 0.271)} = 4.03E-05$$

Soil Component of the Migration to Groundwater Cleanup Objective (Class 1)

$$S-17 = C_w \times \left[K_d + \frac{(\theta_w + \theta_w \times H)}{\rho_b} \right] = 200 \times \left[2.5074 + \left(\frac{0.303 + 0.143 \times 0.271}{1.398} \right) \right] = 550.372 \text{ mg/kg}$$

Tier 2 Soil Component of GW Ingestion Objective cannot exceed Soil Saturation Limit

Target Soil Leachate Concentration (Class 1)

$$S-18 = C_w = \frac{C_g}{DF \times GW_{adj}} = \frac{20.00}{10.000} = 2.00$$

Soil-Water Partition Coefficient

$$S-19 = K_d = K_{oc} \times f_{oc} = 398.00 \times 0.006 = 2.5074$$

Water-Filled Porosity

$$S-20 = \theta_w = \eta \times \frac{1}{K_r}^{1/(2n-2)} = 0.45 \times \left[\frac{0.300}{60.000} \right]^{0.073} = 0.3029$$

Tier 2 Industrial/Commercial Calculations for Total Xylenes
 Huck's #131 / Malar's Grocery
 2009-1397

Air-Filled Porosity

$$S-21 = \theta_a = \eta \cdot \theta_w = 0.45 \cdot 0.30 = 0.1430$$

Dilution Factor

$$S-22 = DF = 1 + \frac{K \cdot i \cdot d}{l \cdot L} = \frac{54.87}{0.300} \times \frac{0.0222}{35.357} \times \frac{6.616}{1} + 1 = 1.7582$$

GW Ingestion

$$S-23 = \frac{TR \times BW \times A_t \times 365}{SF_a \times IR_w \times EF \times ED} = \frac{1.0E-06 \times 70 \times 0 \times 365}{0.000 \times 1.000 \times 250 \times 25} = \frac{0.0E+00}{0} = \text{\#DIV/0!} \text{ mg/L}$$

Total Soil Porosity

$$S-24 = \eta = 1 - \frac{\rho_b}{\rho_s} = 1 - \frac{1.398}{2.523} = 0.4459$$

Estimation of Mixing Zone Depth

$$S-25 = d = (0.0112 \times L)^{0.5} + d_e \left[1 - \exp \left(\frac{-L \times D}{(K \times i \times d_e)} \right) \right]$$

$$= (0.0112 \times 35.357)^{0.5} + 3.048 \times \left[1 - \exp \left(\frac{-35.357 \times 0.3}{54.873 \times 0.0222 \times 3.048} \right) \right] = 6.616 \text{ m}$$

Soil Saturation Limit

$$S-29 = C_{sat} = \frac{S}{\rho_s} \times [(K_d \times \rho_b) + \theta_w + (H' \times \theta_a)] = \frac{110}{1.398} \times \{ (2.5074 \times 1.398) + 0.303 + (0.271 \times 0.143) \} = 302.70 \text{ mg/kg}$$

Tier 2 Industrial/Commercial Calculations for MTBE
Huck's #131 / Males's Grocery
2009-1197

Date Compiled: 07/21/14
Version: 10/25/2013

SSL
RBCA
RBCA
RBCA

Input Values

Parameter	Value	Converted Value to be used in calculation sheet	USDA Soil Classification	Loam
Holcomb's Bulk Density	0			
Organic Matter (%)	0	FOC % (0.58 conversion) → 0.000	FOC mg/kg (0.58 conversion)	0.000
1.398 D_p - Dry Soil Bulk Density		1.5 or: Gravel = 2.0; Sand = 1.8; Silt = 1.6; Clay = 1.7; or Site Specific		
2.523 ρ_s - Soil Particle Density		2.65 or: Site Specific		
0.143 θ_a - Air Filled Soil Porosity	0.143	Value from S-21	Top 1 meter = 0.28; below 1 meter = 0.13; Gravel = 0.05; Sand = 0.14; Silt = 0.24; Clay = 0.19; or Calculated Value (S21)	
0.303 θ_w - Water Filled Soil Porosity	0.303	Value from S-20	Top 1 meter = 0.15; below 1 meter = 0.30; Gravel = 0.20; Sand = 0.18; Silt = 0.16; Clay = 0.17; or Calculated Value (S20)	
0.448 η - SSL & G - RBCA Total Soil Porosity	0.448	Value from S-24	0.43 or: Gravel = 0.25; Sand = 0.32; Silt = 0.40; Clay = 0.36; or Calculated Value (S24)	
0.0221552 I - Hydraulic Gradient		Site Specific		
0.006 f_{oc} - Total Organic Carbon (g/g)		Surface Soil = 0.006; Subsurface Soil = 0.002; or Site Specific		
20.000 DF - Dilution Factor	1.758	Value from S-22	If calculated value for DF is less than 20, then 20 default is used, else calculated value is used	
6.616 d - Mixing Zone (m)	6.616	Value from S-25	2; or calculated value	
3.048 d_s - Depth of source (m)		feet = 10	Depth of Source (Vertical thickness of contamination)	
54.87 K - Hydraulic Conductivity (m/yr)	cm/sec = 1.74E-04	Site Specific	1.50E+01 cm/d	5.49E+03 cm/yr [Use cm/d for R15, R18, & R26; cm/yr for R24]
35.357 L - Source Length Parallel to Groundwater Flow (m)		feet = 116	Site Specific (m)	
3.048 d_a - Aquifer Thickness (m)		feet = 10	Site Specific (m)	
0.3 I - Infiltration Rate (m/yr)			0.3 for Illinois	
60 K_s - Saturated Hydraulic Conductivity			See Table K for Input Values	
0.070 GW_{obj} - Groundwater Remediation Objective Class 1			0.07 - GW_{obj} - Groundwater Remediation Objective Class 2	
0.073 $1/(2b+3)$ - Exponent for S20			See Table K for Input Values	
70 BW - Body Weight			Residential = 70 (carcinogenic); 15 (non-carcinogenic); Industrial/Commercial = 70; Construction Worker = 70; RBCA = 70	
114 IF_{adj} - Age Adjusted Soil Ingestion Factor for Carcinogens			114	
50 IR_{soil} - Soil Ingestion Rate			Residential = 200; Industrial/Commercial = 50; Construction Worker = 480	
1 IR_w - Daily Water Ingestion Rate			Residential = 2; Industrial/Commercial = 1	
51000 S - Solubility in Water			MTBE = 51,000	
1.0E-06 TR - Target Cancer Risk			Residential = 10^{-6} ; Industrial/Commercial = 10^{-6} ; Construction Worker = 10^{-6} at point of human exposure	
250 EF - Exposure Frequency			Residential = 350; Industrial/Commercial = 250; Construction Worker = 30	
25 ED - Exposure Duration for Inhalation for Non-Carcinogens			Residential = 30; Industrial/Commercial = 25; Construction Worker = 1	
68.81 O/C - Inverse of the mean concentration at the center of a square source			Residential = 68.81; Industrial/Commercial = 85.81; Construction Worker = 85.81; or Table H	
7.90E+08 T - Exposure Interval			Residential = 9.5×10^8 ; Industrial/Commercial = 7.0×10^8 ; Construction Worker = 3.6×10^8	
30 T_{vol} - Exposure Interval for Mass Limit Volatilization Factor Equation S26			30	
70 ED_{vol} - Exposure Duration for Migration to Groundwater Mass-Limit Equation S28			70	
0.18 f_{in} - Infiltration Rate for Migration to Groundwater Mass-Limit Equation S28			0.18	
0.102 D_a - Diffusivity in Air			MTBE = 0.102	
0.0241 H' - Henry's Law Constant			MTBE = 0.0241	
1.10E-05 D_w - Diffusivity in Water			MTBE = 1.1×10^{-5}	
25 AT - Average Time for Non-Carcinogens In Ingestion Equation			Residential = 6; Industrial/Commercial = 25; Construction Worker = 0.115	
25 AT - Average Time for Non-Carcinogens In Inhalation Equation			Residential = 30; Industrial/Commercial = 25; Construction Worker = 0.115	
1 THQ - Target Hazard Quotient			1	
3 $IRIC$ - Inhalation Reference Concentration			Chronic = 3; Subchronic = 2.5	
0.01 IRD - Oral Reference Dose			Chronic = 0.01; Subchronic = 0.1	
11.50 K_{oc} - Organic Carbon Partition Coefficient			MTBE = 11.5	

Residential Ingestion Remediation Objectives for Non-Carcinogenic Contaminants

$$S-1 = \frac{THQ \times BW \times AT \times 365}{10^{-6} \times (1/IRD) \times EF \times ED \times IR_{soil}} = \frac{1 \times 70 \times 25 \times 365}{0.000001 \times 1/1 \times 0.01 \times 250 \times 25 \times 50} = \frac{636750}{31.25} = 20440 \text{ mg/kg}$$

Construction Worker Ingestion Remediation Objectives for Non-Carcinogenic Contaminants

$$S-1 = \frac{THQ \times BW \times AT \times 365}{10^{-6} \times (1/IRD) \times EF \times ED \times IR_{soil}} = \frac{1 \times 70 \times 0.115 \times 365}{0.000001 \times 1/1 \times 0.1 \times 30 \times 1 \times 480} = \frac{2838.25}{0.144} = 20405 \text{ mg/kg}$$

Inhalation Non-Carcinogenic Residential, Ind/Commercial

$$S-4 = \frac{THQ \times AT \times 365}{EF \times ED \times (1/IRIC \times 1/VF)} = \frac{1 \times 25 \times 365}{250 \times 25 \times 1/3 \times 1/21793.47708} = \frac{9125}{0.095594} = 95455.430 \text{ mg/kg}$$

Tier 2 Inhalation Objective cannot exceed Soil Saturation Limit

Inhalation Non-Carcinogenic Construction Worker

$$S-5 = \frac{THQ \times AT \times 365}{EF \times ED \times (1/IRIC \times 1/VF)} = \frac{1 \times 0.115 \times 365}{30 \times 1 \times 1/2.5 \times 1/147.1174643} = \frac{41.875}{0.081567} = 514.605 \text{ mg/kg}$$

Tier 2 Industrial/Commercial Calculations for MTBE

Huck's #131 / Maier's Grocery
2009-1397

RESIDENTIAL OR COMMERCIAL

$$S-8 = VF = \frac{Q}{C} \times \frac{(3.14 \times D_A \times T)^{1/2} \times 10^{-4}}{(2 \times r_b \times D_A)} = 85.81 \times \frac{\left(\frac{3.14 \times 4.92E-05 \times 7.90E+08}{2 \times 1.398 \times 4.92E-05} \right)^{1/2} \times 0.0001}{1.38E-04} = \frac{2.9976}{1.38E-04} = 21793.4771$$

Construction Worker

$$S-8 = VF = \frac{Q}{C} \times \frac{(3.14 \times D_A \times T)^{1/2} \times 10^{-4}}{(2 \times r_b \times D_A)} = 85.81 \times \frac{\left(\frac{3.14 \times 4.92E-05 \times 3.60E+06}{2 \times 1.398 \times 4.92E-05} \right)^{1/2} \times 0.0001}{1.38E-04} = \frac{0.2024}{1.38E-04} = 1471.1746$$

Equation for Derivation of Volatilization Factor - Construction Worker

$$S-9 = VF' = \frac{VF}{10} = \frac{1471.1746}{10} = 147.1175$$

Equation for Derivation of Apparent Diffusivity

$$S-10 = D_A = \frac{(D_s^{2.22} \times D_1 \times H) + (D_s^{2.22} \times D_w)}{\eta^2} \times \frac{1}{(r_b \times K_d) + \theta_w + (\theta_s \times H)}$$

$$= \frac{(1.54E-03 \times 0.102 \times 0.024) + (0.0188 \times 1.10E-05)}{0.1989} \times \frac{1}{(1.398 \times 0.07245) + 0.30 + (0.143 \times 0.024)} = 4.92E-05$$

Soil Component of the Migration to Groundwater Cleanup Objective (Class 1)

$$S-17 = C_w \times \left[K_d + \frac{(\theta_w + \theta_s \times H)}{\rho_b} \right] = 1.4 \times \left[0.07245 + \frac{0.303 + 0.143 \times 0.024}{1.398} \right] = 0.408 \text{ mg/kg}$$

Target Soil Leachate Concentration (Class 1)

$$S-18 = C_w = \frac{DF \times GW_{obj}}{DF \times GW_{obj}} = 20.00 \times 0.070 = 1.4$$

Soil-Water Partition Coefficient

$$S-19 = K_d = K_{oc} \times f_{oc} = 11.50 \times 0.006 = 0.07245$$

Tier 2 Industrial/Commercial Calculations for MTBE

Huck's #131 / Males' Grocery
2009-1397

Water-Filled Porosity

$$S-20 = \Theta_w = \eta \times \frac{1}{K_r}^{1/(2-2)} = 0.45 \times \left[\frac{0.300}{60.000} \right]^{0.673} = 0.3029$$

Air-Filled Porosity

$$S-21 = \Theta_a = \eta - \Theta_w = 0.45 - 0.30 = 0.1430$$

Dilution Factor

$$S-22 = DF = 1 + \frac{K \times i \times d}{l \times L} = \frac{54.87 \times 0.0222 \times 6.616}{0.300 \times 35.357} + 1 = 1.7582$$

GW Ingestion

$$S-23 = \frac{TR \times BW \times A_t \times 365}{SF_e \times IR_w \times EF \times ED} = \frac{1.0E-06 \times 70 \times 0 \times 365}{0.000 \times 1.000 \times 250 \times 25} = \frac{0.0E+00}{0} = \text{\#DIV/0! mg/L}$$

Total Soil Porosity

$$S-24 = \eta = 1 - \frac{p_b}{p_s} = 1 - \frac{1.398}{2.523} = 0.4459$$

Estimation of Mixing Zone Depth

$$S-25 = d = (0.0112 \times L^3)^{0.5} + d_s \left[1 - \exp \left(\frac{-L \times \eta}{(K \times l \times d_s)} \right) \right]$$

$$= (0.0112 \times 35.357^3)^{0.5} + 3.048 \times \left[1 - \exp \left(\frac{-35.357 \times 0.3}{54.873 \times 0.0222 \times 3.048} \right) \right] = 6.616 \text{ m}$$

Soil Saturation Limit

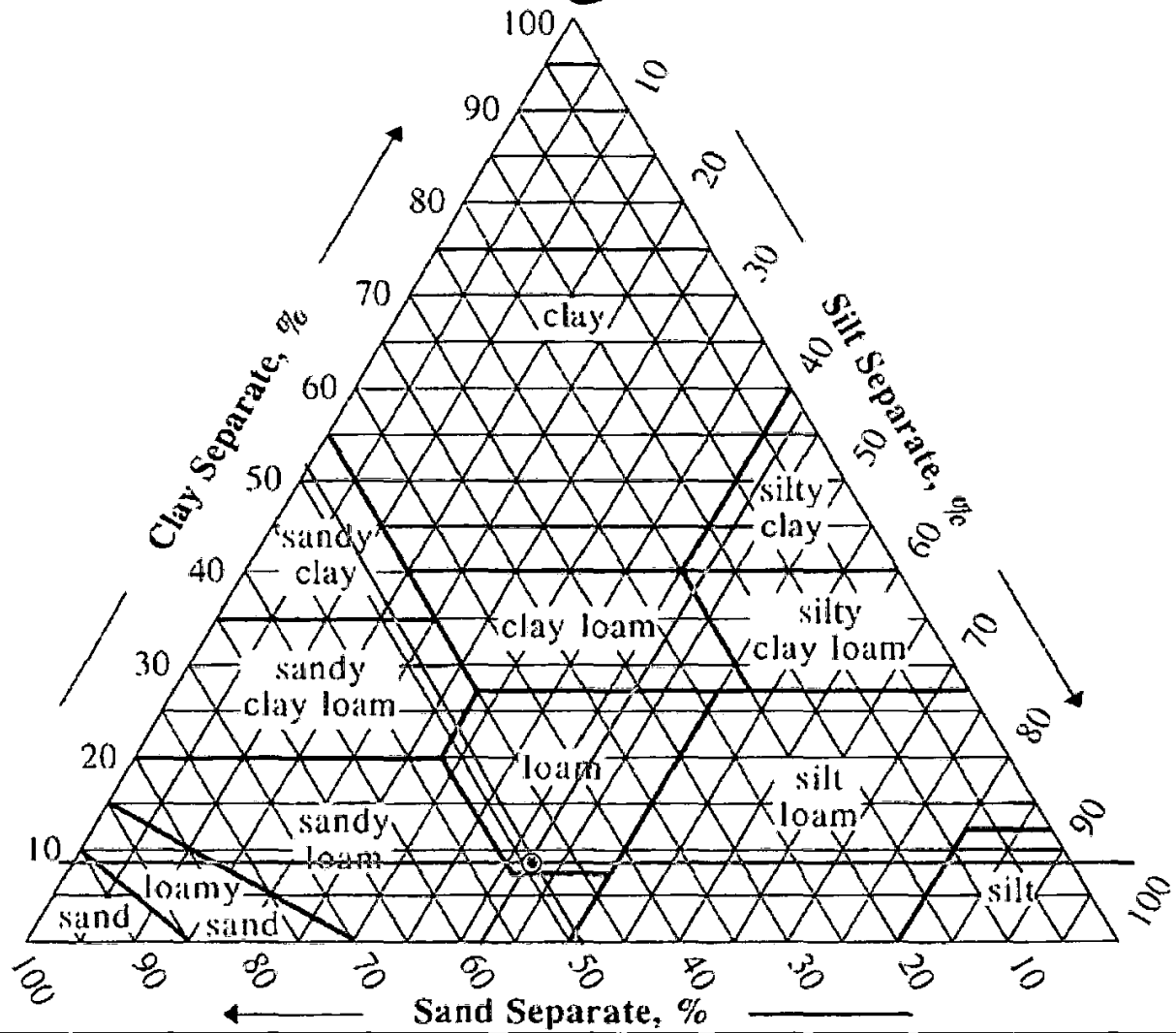
$$S-29 = C_{sat} = \frac{S}{p_b} \times [(K_r \times p_b) + \Theta_w + (H' \times \Theta_a)] = \frac{51000}{1.398} \times [(0.07245 \times 1.398) + 0.303 + (0.024 \times 0.143)] = 14,874.32 \text{ mg/kg}$$

Huck's #131 / Maier's Grocery
2009-1397

Appendix C - Table K
Parameter Estimates for Calculating Water - Filled Soil Porosity (O_w)

Soil Texture	Saturated Hydraulic Conductivity (Ks) (m/yr)	$1 / (2b+3)$
Sand	1830	0.09
Loamy Sand	540	0.085
Sandy Loam	230	0.08
Silt Loam	120	0.074
Loam	60	0.073
Sandy Clay Loam	40	0.058
Silt Clay Loam	13	0.054
Clay Loam	20	0.05
Sandy Clay	10	0.042
Silt Clay	8	0.042
Clay	5	0.039

Version: 10/25/2013



CW³M Company, Inc.
 701 South Grand Avenue West
 Springfield, IL 62704
 (217)-522-8001

Soil Texture Triangle
 109 South State Street
 Crossville, Illinois

Drawn By: BMW
 Reviewed By: CLR
 Drawing 0001A
 SoilT.doc

APPENDIX E

SUMMARY OF ANALYTICAL RESULTS

**CORRECTIVE ACTION PLAN AND BUDGET
HUCK'S #131 - MAIER'S GROCERY
CROSSVILLE, ILLINOIS**

Maiers Grocery
Site Assessment Data

EA - SOIL

	Location	1	2	3	4	5	6	7	8	9	10	11
	Date	1/28/2010	1/28/2010	1/28/2010	1/28/2010	1/28/2010	1/28/2010	1/28/2010	1/28/2010	1/28/2010	1/28/2010	1/28/2010
	Depth	6'	6'	6'	13'	13'	13'	13'	13'	13'	6'	6'
Parameter	Class I CUO											
Benzene	0.03	0.0052	0.0074	0.0055	0.0032	0.0027	0.0017	0.0072	0.016	<0.002	0.032	1.9
Ethylbenzene	13.0	0.0046	0.0042	0.011	0.0014	0.00046	0.00041	<0.002	<0.002	<0.002	0.046	20.
Toluene	12.0	0.011	0.011	0.051	0.008	0.0029	0.0025	<0.002	<0.002	<0.002	0.021	2.1
Total Xylenes	5.6	0.0097	0.0091	0.051	0.0068	0.0024	0.0021	<0.002	<0.002	<0.002	0.16	95.
TCLP lead	0.0075	0.026	0.019	0.016	<0.002	<0.002	<0.002	0.011	0.03	<0.002	0.023	0.018
MTBE	0.32	0.000662	<0.002	<0.002	<0.002	<0.002	0.00072	0.004	0.0025	0.0022	0.0079	0.47

**Maiers Grocery
Site Assessment Data**

EA - SOIL

	Location	12	13	14	15	16	17	18	19
	Date	1/28/2010	1/28/2010	1/28/2010	1/28/2010	1/28/2010	1/28/2010	1/28/2010	1/28/2010
	Depth	6'	6'	6'	6'	6'	3'	3'	3'
Parameter	Class I CUO								
Benzene	0.03	<0.002	0.096	<0.002	0.0009	0.00095	0.026	0.037	0.11
Ethylbenzene	13.0	<0.002	0.009	<0.002	<0.002	0.0019	0.024	0.0032	0.019
Toluene	12.0	<0.002	0.048	<0.002	<0.002	0.003	0.071	0.0032	0.049
Total Xylenes	5.6	<0.002	0.018	<0.002	<0.002	0.01	0.01	0.032	0.077
TCLP lead	0.0075	0.018	0.02	0.0088	0.0084	0.0089	0.024	0.012	0.019
MTBE	0.32	<0.002	0.011	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002

Huck's #131 / Maiers Grocery
 Site Assessment Data

Soil AET(6-2-10)

	Location	B-1	B-1	B-1	B-2	B-2	B-2	B-3	B-3	B-3
	Depth	2.5'	7.5'	12'	2.5'	7.5'	10'	2.5'	7.5'	10'
Parameter	Class I CUO									
Benzene	0.03	0.0029	0.0069	0.0024	<0.002	0.12	0.0016	0.002	0.006	0.0035
Ethylbenzene	13.0	0.0012	0.0055	0.0057	<0.002	0.022	<0.002	0.0005	0.0047	0.0026
Toluene	12.0	0.0046	0.015	0.0019	<0.002	0.0075	0.0018	0.0004	0.0006	0.0012
Total Xylenes	5.6	0.0024	0.012	0.0031	<0.002	0.044	0.0011	0.0015	0.0077	0.0048
MTBE	0.32	<0.002	<0.002	<0.002	<0.002	<0.002	0.0021	0.0037	0.002	<0.002
Lead TCLP	0.0075	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002

Huck's #131 / Maiers Grocery
 Site Assessment Data

Soil AET(6-2-10)

	Location	B-4	B-4	B-4	B-5	B-5
	Depth	2.5'	7.5'	10'	2.5'	7.5'
Parameter	Class I CUO					
Benzene	0.03	<0.002	0.0018	0.0016	<0.002	0.0029
Ethylbenzene	13.0	<0.002	0.0015	0.0014	<0.002	0.0031
Toluene	12.0	<0.002	0.0042	0.0037	<0.002	0.0065
Total Xylenes	5.6	<0.002	0.0031	0.0026	<0.002	0.0065
MTBE	0.32	<0.002	<0.002	<0.002	<0.002	0.0006
Lead TCLP	0.0075	<0.002	<0.002	0.018	<0.002	<0.002

Huck's Maers Grocery
 Site Assessment Data

Groundwater AET(6-30-10)

	Location	MW-1	MW-2	MW-3	MW-4	MW-5	
	Date	6/30/2010	6/30/2010	6/30/2010	6/30/2010	6/30/2010	
Parameter	Class I CUO						
Benzene	0.005	<0.002	0.022	0.27	0.002	0.0086	
Ethylbenzene	0.7	<0.002	0.005	0.15	<0.002	0.004	
Toluene	1.0	<0.002	0.003	0.02	<0.002	<0.002	
Total Xylenes	10.0	<0.005	0.009	0.19	<0.005	0.013	
MTBE	0.1	0.018	0.04	0.12	0.044	0.034	

Huck's #131 / Maiers Grocery
Site Assessment Data

Soil 11-21-11

	Location	B-6	B-6	B-8	B-8	B-8	B-9	B-9	B-10	B-10
	Depth	2.5'	7.5'	2.5'	7.5'	12.5'	2.5'	7.5'	2.5'	7.5'
Parameter	Class I CUO									
Benzene	0.03	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	0.001	<0.002
Ethylbenzene	13.0	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Toluene	12.0	<0.002	0.005	<0.002	0.012	<0.002	<0.002	0.008	0.009	0.009
Total Xylenes	5.6	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
MTBE	0.32	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Lead TCLP	0.0075	0.009	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005

Huck's #131 / Maiers Grocery
Site Assessment Data

Soil 11-21-11

	Location	B-11	B-11	B-12	B-12	
	Depth	2.5'	7.5'	2.5'	7.5'	
Parameter	Class I CUO					
Benzene	0.03	<0.002	<0.002	<0.002	<0.002	
Ethylbenzene	13.0	<0.002	<0.002	<0.002	<0.002	
Toluene	12.0	<0.002	0.007	<0.002	0.01	
Total Xylenes	5.6	<0.005	<0.005	<0.005	<0.005	
MTBE	0.32	<0.005	<0.005	<0.005	<0.005	
Lead TCLP	0.0075	<0.005	<0.005	<0.005	<0.005	

Huck's #131 / Maier's Grocery
 Site Assessment Data

Stage 2/3 - Groundwater

	Location	MW-6	MW-8	MW-9	MW-10	MW-11	MW-12	
	Date	1/26/2012	1/26/2012	1/26/2012	1/26/2012	1/26/2012	1/26/2012	
Parameter	Class I CUO							
Benzene	0.005	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	
Ethylbenzene	0.7	0.155	<0.002	<0.002	0.082	<0.002	<0.002	
Toluene	1.0	0.356	<0.002	<0.002	0.111	0.005	<0.002	
Total Xylenes	10.0	0.741	<0.005	<0.005	0.242	0.015	<0.005	

Huck's #131 / Waiers Grocery
Site Assessment Data

Lead 8-15-13

	Location	L-1	L-1	L-2	L-2	L-3	L-3
	Depth	2.5'	7.5'	2.5'	7.5'	2.5'	7.5'
Parameter	Class I CUO						
Lead TCLP	0.0075	<0.0067	0.0071	<0.0067	<0.0067	<0.0067	0.0083

Huck's #131 / Maiers Grocery
Site Assessment Data

Lead 11-18-13

	Location	L-4	L-4	L-5	L-5
	Depth	2.5'	7.5'	2.5'	7.5'
Parameter	Class I CUO				
Lead TCLP	0.0075	ND	ND	ND	ND

APPENDIX F

CORRECTIVE ACTION PLAN BUDGET

**CORRECTIVE ACTION PLAN AND BUDGET
HUCK'S #131 - MAIER'S GROCERY
CROSSVILLE, ILLINOIS**

Owner/Operator and Licensed Professional Engineer/Geologist Budget Certification Form

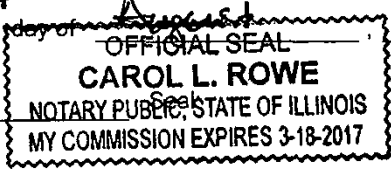
I hereby certify that I intend to seek payment from the UST Fund for costs incurred while performing corrective action activities for Leaking UST incident 2009-1397. I further certify that the costs set forth in this budget are for necessary activities and are reasonable and accurate to the best of my knowledge and belief. I also certify that the costs included in this budget are not for corrective action in excess of the minimum requirements of 415 ILCS 5/57, no costs are included in this budget that are not described in the corrective action plan, and no costs exceed Subpart H: Maximum Payment Amounts, Appendix D Sample Handling and Analysis amounts, and Appendix E Personnel Titles and Rates of 35 Ill. Adm. Code 732 or 734. I further certify that costs ineligible for payment from the Fund pursuant to 35 Ill. Adm. Code 732.606 or 734.630 are not included in the budget proposal or amendment. Such ineligible costs include but are not limited to:

- Costs associated with ineligible tanks.
- Costs associated with site restoration (e.g., pump islands, canopies).
- Costs associated with utility replacement (e.g., sewers, electrical, telephone, etc.).
- Costs incurred prior to IEMA notification.
- Costs associated with planned tank pulls.
- Legal fees or costs.
- Costs incurred prior to July 28, 1989.
- Costs associated with installation of new USTs or the repair of existing USTs.

Owner/Operator: Martin & Bayley, Inc.

Authorized Representative: Troy Dietz Title: Director of Petroleum

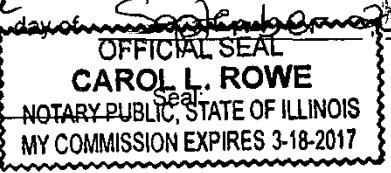
Signature: *Troy Dietz* Date: 8/31/2014

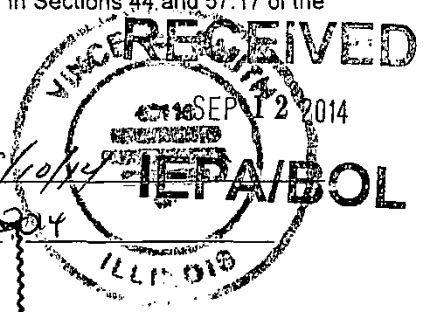
Subscribed and sworn to before me the 31st day of August, 2014
[Signature]
(Notary Public) 

In addition, I certify under penalty of law that all activities that are the subject of this plan, budget, or report were conducted under my supervision or were conducted under the supervision of another Licensed Professional Engineer or Licensed Professional Geologist and reviewed by me; that this plan, budget, or report and all attachments were prepared under my supervision; that, to the best of my knowledge and belief, the work described in the plan, budget, or report has been completed in accordance with the Environmental Protection Act [415 ILCS 5], 35 Ill. Adm. Code 732 or 734, and generally accepted standards and practices of my profession; and that the information presented is accurate and complete. I am aware there are significant penalties for submitting false statements or representations to the Illinois EPA, including but not limited to fines, imprisonment, or both as provided in Sections 44 and 57.17 of the Environmental Protection Act [415 ILCS 5/44 and 57.17].

L.P.E./L.P.G.: Vince E. Smith L.P.E./L.P.G. Seal:

L.P.E./L.P.G. Signature: *Vince E. Smith* Date: 9/10/14

Subscribed and sworn to before me the 10th day of September, 2014
[Signature]
(Notary Public) 



The Illinois EPA is authorized to require this information under 415 ILCS 5/1. Disclosure of this information is required. Failure to do so may result in the delay or denial of any budget or payment requested hereunder.



Illinois Environmental Protection Agency

Bureau of Land • 1021 N. Grand Avenue E. • P.O. Box 19276 • Springfield • Illinois • 62794-9276

General Information for the Budget and Billing Forms

LPC #: 1930155021 County: White

City: Crossville Site Name: Huck's #131 / Maier's Grocery

Site Address: 109 South State Street

IEMA Incident No.: 20091397

IEMA Notification Date: Dec 16, 2009

Date this form was prepared: Jul 23, 2014

This form is being submitted as a (check one, if applicable):

- Budget Proposal
- Budget Amendment (Budget amendments must include only the costs over the previous budget.)
- Billing Package

Please provide the name(s) and date(s) of report(s) documenting the costs requested:

Name(s): _____

Date(s): _____

This package is being submitted for the site activities indicated below:

35 III. Adm. Code 734:

- Early Action
- Free Product Removal after Early Action
- Site Investigation Stage 1: Stage 2: Stage 3:
- Corrective Action Actual Costs

35 III. Adm. Code 732:

- Early Action
- Free Product Removal after Early Action
- Site Classification
- Low Priority Corrective Action
- High Priority Corrective Action

35 III. Adm. Code 731:

- Site Investigation
- Corrective Action

RECEIVED

SEP 12 2014

IEPA/BOL

General Information for the Budget and Billing Forms

The following address will be used as the mailing address for checks and any final determination letters regarding payment from the Fund.

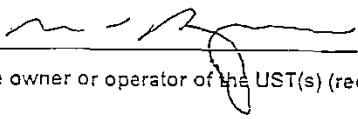
Pay to the order of: Martin & Bayley, Inc.

Send in care of: CWM Company, Inc.

Address: P.O. Box 385

City: Carmi State: Illinois Zip: 62821

The payee is the: Owner Operator (Check one or both.)



 Signature of the owner or operator of the UST(s) (required)

If you have a change of address, [click here to print off a W-9 Form.](#)

Number of petroleum USTs in Illinois presently owned or operated by the owner or operator; any subsidiary, parent or joint stock company of the owner or operator; and any company owned by any parent, subsidiary or joint stock company of the owner or operator:

Fewer than 101: 101 or more:

Number of USTs at the site: 4 (Number of USTs includes USTs presently at the site and USTs that have been removed.)

Number of incidents reported to IEMA for this site: 1

Incident Numbers assigned to the site due to releases from USTs: 20091397

Please list all tanks that have ever been located at the site and tanks that are presently located at the site.

Product Stored in UST	Size (gallons)	Did UST have a release?	Incident No.	Type of Release Tank Leak / Overfill / Piping Leak
Gasoline	10,000	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	20091397	Tank Leak
Gasoline	10,000	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	20091397	Tank Leak
Gasoline	8,000	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	n/a	
Gasoline	4,000	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	n/a	
		Yes <input type="checkbox"/> No <input type="checkbox"/>		
		Yes <input type="checkbox"/> No <input type="checkbox"/>		
		Yes <input type="checkbox"/> No <input type="checkbox"/>		
		Yes <input type="checkbox"/> No <input type="checkbox"/>		

Add More Rows

Undo Last Add

Budget Summary

Choose the applicable regulation: 734 732

734	Free Product	Stage 1 Site Investigation	Stage 2 Site Investigation	Stage 3 Site Investigation	Corrective Action
					Proposed
Drilling and Monitoring Well Costs Form	\$	\$	\$	\$	\$ 1,457.81
Analytical Costs Form	\$	\$	\$	\$	\$ 1,750.56
Remediation and Disposal Costs Form	\$	\$	\$	\$	\$ 25,099.47
UST Removal and Abandonment Costs Form	\$	\$	\$	\$	\$
Paving, Demolition, and Well Abandonment Costs Form	\$	\$	\$	\$	\$ 5,844.00
Consulting Personnel Costs Form	\$	\$	\$	\$	\$ 48,683.28
Consultant's Materials Costs Form	\$	\$	\$	\$	\$ 2,972.50
Handling Charges Form	Handling charges will be determined at the time a billing package is submitted to the Illinois EPA. The amount of allowable handling charges will be determined in accordance with the Handling Charges Form.				
Total	\$	\$	\$	\$	\$ 85,807.62

Drilling and Monitoring Well Costs Form

1. Drilling

Number of Borings to Be Drilled	Type HSA/PUSH/ Injection	Depth (feet) of Each Boring	Total Feet Drilled	Reason for Drilling
1	PUSH	10.00	10.00	Waste Characterization Sample for Soil Disposal

Subpart H minimum payment amount applies.

	Total Feet	Rate per Foot (\$)	Total Cost (\$)
Total Feet via HSA:		27.94	
Total Feet via PUSH:	10.00	21.87	218.70
Total Feet for Injection via PUSH:		18.23	
Total Drilling Costs:			1,457.81

2. Monitoring / Recovery Wells

Number of Wells	Type of Well HSA / PUSH / 4" or 6" Recovery / 8" Recovery	Diameter of Well (inches)	Depth of Well (feet)	Total Feet of Wells to Be Installed (\$)

Well Installation	Total Feet	Rate per Foot (\$)	Total Cost (\$)
Total Feet via HSA:			
Total Feet via PUSH:			
Total Feet of 4" or 6" Recovery:			
Total Feet of 8" or Greater Recovery:			
Total Well Costs:			

Total Drilling and Monitoring Well Costs:	\$1,457.81
--	-------------------

Analytical Costs Form

Laboratory Analysis	Number of Samples		Cost (\$) per Analysis		Total per Parameter
Chemical Analysis					
BETX Soil with MTBE EPA 8260	11	X	103.26	=	\$1,135.86
BETX Water with MTBE EPA 8260		X		=	
COD (Chemical Oxygen Demand)		X		=	
Corrosivity		X		=	
Flash Point or Ignitability Analysis EPA 1010	1	X	40.08	=	\$40.08
Fraction Organic Carbon Content (f _{OC}) ASTM-D 2974-00		X		=	
Fat, Oil, & Grease (FOG)		X		=	
LUST Pollutants Soil - analysis must include volatile, base/neutral, polynuclear aromatics and metals list in Section 732, Appendix B and 734.Appendix B		X		=	
Dissolved Oxygen (DO)		X		=	
Paint Filter (Free Liquids)	1	X	17.00	=	\$17.00
PCB / Pesticides (combination)		X		=	
PCBs		X		=	
Pesticides	1	X	170.09	=	\$170.09
pH	1	X	17.00	=	\$17.00
Phenol		X		=	
Polynuclear Aromatics PNA, or PAH SOIL EPA 8270		X		=	
Polynuclear Aromatics PNA, or PAH WATER EPA 8270		X		=	
Reactivity		X		=	
SVOC - Soil (Semi-Volatile Organic Compounds)		X		=	
SVOC - Water (Semi-Volatile Organic Compounds)		X		=	
TKN (Total Kjeldahl) "nitrogen"		X		=	
TPH (Total Petroleum Hydrocarbons)		X		=	
VOC (Volatile Organic Compounds) - Soil (Non-Aqueous)		X		=	
VOC (Volatile Organic Compounds) - Water		X		=	
Vapor Intrusion Sampling		X		=	
		X		=	
		X		=	
		X		=	
		X		=	
Geo-Technical Analysis					
Soil Bulk Density (p _b) ASTM D2937-94		X		=	
Ex-situ Hydraulic Conductivity / Permeability		X		=	
Moisture Content (w) ASTM D2216-92 / D4643-93		X		=	
Porosity		X		=	
Rock Hydraulic Conductivity Ex-situ		X		=	
Sieve / Particle Size Analysis ASTM D422-63 / D1140-54		X		=	
Soil Classification ASTM D2488-90 / D2487-90		X		=	
Soil Particle-Density (p _s) ASTM D854-92		X		=	
		X		=	
		X		=	
		X		=	

Analytical Costs Form

Metals Analysis					
Soil preparation fee for Metals TCLP Soil (one fee per soil sample)	1	X	95.97	=	\$95.97
Soil preparation fee for Metals Total Soil (one fee per soil sample)		X		=	
Water preparation fee for Metals Water (one fee per water sample)		X		=	
Arsenic TCLP Soil		X		=	
Arsenic Total Soil		X		=	
Arsenic Water		X		=	
Barium TCLP Soil		X		=	
Barium Total Soil		X		=	
Barium Water		X		=	
Cadmium TCLP Soil		X		=	
Cadmium Total Soil		X		=	
Cadmium Water		X		=	
Chromium TCLP Soil		X		=	
Chromium Total Soil		X		=	
Chromium Water		X		=	
Cyanide TCLP Soil		X		=	
Cyanide Total Soil		X		=	
Cyanide Water		X		=	
Iron TCLP Soil		X		=	
Iron Total Soil		X		=	
Iron Water		X		=	
Lead TCLP Soil		X		=	
Lead Total Soil	1	X	19.43	=	\$19.43
Lead Water		X		=	
Mercury TCLP Soil		X		=	
Mercury Total Soil		X		=	
Mercury Water		X		=	
Selenium TCLP Soil		X		=	
Selenium Total Soil		X		=	
Selenium Water		X		=	
Silver TCLP Soil		X		=	
Silver Total Soil		X		=	
Silver Water		X		=	
Metals TCLP Soil (a combination of all metals) RCRA		X		=	
Metals Total Soil (a combination of all metals) RCRA		X		=	
Metals Water (a combination of all metals) RCRA		X		=	
		X		=	
		X		=	
		X		=	
		X		=	
Other					
EnCore® Sampler, purge-and-trap sampler, or equivalent sampling device	11	X	12.15	=	\$133.65
Sample Shipping per sampling event ¹	2	X	60.74	=	\$121.48

¹A sampling event, at a minimum, is all samples (soil and groundwater) collected in a calendar day.

Total Analytical Costs: \$ 1,750.56

Remediation and Disposal Costs Form

A. Conventional Technology

Excavation, Transportation, and Disposal of contaminated soil and/or the 4-foot backfill material removal during early action activities:

Number of Cubic Yards	Cost per Cubic Yard (\$)	Total Cost
268.30	69.25	\$18,579.78

Backfilling the Excavation:

Number of Cubic Yards	Cost per Cubic Yard (\$)	Total Cost
268.30	24.30	\$6,519.69

Overburden Removal and Return:

Number of Cubic Yards	Cost per Cubic Yard (\$)	Total Cost

B. Alternative Technology

Alternative Technology Selected:	
Number of Cubic Yards of Soil to Be Remediated	
Total Non-Consulting Personnel Costs Summary Sheet (\$)	
Total Remediation Materials Costs Summary Sheet (\$)	
Total Cost of the System	

Remediation and Disposal Costs Form

C. Groundwater Remediation and/or Free Product Removal System

Total Non-Consulting Personnel Costs Summary Sheet (\$)	
Total Remediation Materials Costs Summary Sheet (\$)	
Total Cost of the System	

D. Groundwater and/or Free Product Removal and Disposal

Subpart H minimum payment amount applies.

Number of Gallons	Cost per Gallon (\$)	Total Cost (\$)

E. Drum Disposal

Subpart H minimum payment amount applies.

Number of Drums of Solid Waste	Cost per Drum (\$)	Total Cost (\$)
Number of Drums of Liquid Waste	Cost per Drum (\$)	Total Cost (\$)
Total Drum Disposal Costs		.00

Total Remediation and Disposal Costs:	\$25,099.47
--	--------------------

Paving, Demolition, and Well Abandonment Costs Form

A. Concrete and Asphalt Placement/Replacement

Number of Square Feet	Asphalt or Concrete	Thickness (inches)	Cost (\$) per Square Foot	Replacement or Placement for an Engineered Barrier	Total Cost
690.00	Concrete	6.00	5.30	Replacement	\$3,657.00

Total Concrete and Asphalt Placement/Replacement Costs:	\$3,657.00
--	-------------------

B. Building Destruction or Dismantling and Canopy Removal

Item to Be Destroyed, Dismantled, or Removed	Unit Cost (\$)	Total Cost (\$)

Total Building Destruction or Dismantling and Canopy Removal Costs:	
--	--

Consulting Personnel Costs Form

Employee Name	Personnel Title	Hours	Rate* (\$)	Total Cost
Remediation Category	Task			
	Senior Project Manager	12.00	121.49	\$1,457.88
CCA-Field	Office Preparation, Scheduling and arrangements for excavation and drilling			
	Senior Prof. Engineer	6.00	157.94	\$947.64
CCA-Field	Project/Excavation Oversight			
	Engineer III	40.00	121.49	\$4,859.60
CCA-Field	Excavation and Backfilling Oversight, Sample Collection, Technical Compliance			
	Senior Admin. Assistant	8.00	54.67	\$437.36
CCA-Field	Office Preparation, Scheduling, Arrangements for Excavation, and drilling			
	Senior Project Manager	6.00	121.49	\$728.94
CCA-Field	Report coordination/ Technical Oversight, Agency correspondence			
	Engineer III	8.00	121.49	\$971.92
CCA-Field	Soil Analytical Tabulation/ BLs			
	Senior Project Manager	8.00	121.49	\$971.92
CCA-Field	Corrective Action Documentation of Field Activities / Compliance			
	Senior Admin. Assistant	4.00	54.67	\$218.68
CCA-Field	Office Prep / Utilities Locate Scheduling / WC Drilling / Sampling			
	Senior Project Manager	6.00	121.49	\$728.94
CCA-Field	Analytical Review			

Employee Name	Personnel Title	Hours	Rate* (\$)	Total Cost
Remediation Category	Task			
	Senior Draftperson/CAD	6.00	72.88	\$437.28
CCA-Field	CA Field Maps/ Excavation/ Analytical			
	Senior Project Manager	20.00	121.49	\$2,429.80
CCA-Field	CA Documentation/ Tech Compliance/ field report			
	Engineer III	6.00	121.49	\$728.94
CCA-Field	Excavation/ landfill authorization/ manifests development			
	Senior Project Manager	6.00	121.49	\$728.94
CCA-Field	BL, Soil and Groundwater Analytical Review			
	Senior Project Manager	3.00	121.49	\$364.47
CCA-Field	Office Preparation, Scheduling, Arrangements for Monitoring Well Abandonment			

Employee Name	Personnel Title	Hours	Rate* (\$)	Total Cost
Remediation Category	Task			
	Senior Project Manager	6.00	121.49	\$728.94
CCAP	Report Review / Technical Oversight / Compliance			
	Senior Prof. Engineer	4.00	157.94	\$631.76
CCAP	Report Review and Certification			
	Engineer I	42.00	91.11	\$3,826.62
CCAP	Report Preparation / Design			
	Draftperson/CAD I	8.00	48.59	\$388.72
CCAP	Drafting / Editing Maps for the Report			
	Senior Admin. Assistant	3.00	54.67	\$164.01
CCAP	Report Compilation, Assembly, and Distribution			
	Engineer III	6.00	121.49	\$728.94
CCAP	Corrective Action Plan Design			

Employee Name	Personnel Title	Hours	Rate* (\$)	Total Cost
Remediation Category	Task			
	Senior Project Manager	8.00	121.49	\$971.92
CCAP-Budget	Budget Technical Development Compliance / Oversight			
	Senior Prof. Engineer	3.00	157.94	\$473.82
CCAP-Budget	Budget Review and Certification			
	Engineer I	24.00	91.11	\$2,186.64
CCAP-Budget	Budget Calculations / Inputs			
	Senior Admin. Assistant	2.00	54.67	\$109.34
CCAP-Budget	Budget Compilation, Assembly, and Distribution			
	Engineer III	4.00	121.49	\$485.96
CCAP-Budget	Budget Estimates			

Employee Name	Personnel Title	Hours	Rate* (\$)	Total Cost
Remediation Category	Task			
	Senior Project Manager	8.00	121.49	\$971.92
CACR	Report Technical Compliance / Oversight			
	Senior Prof. Engineer	4.00	157.94	\$631.76
CACR	Report Review and Certification			
	Engineer III	45.00	121.49	\$5,467.05
CACR	Report Preparation / Data Assembly and Evaluation			
	Senior Draftperson/CAD	8.00	72.88	\$583.04
CACR	Drafting / Updating and Completing Maps			
	Senior Admin. Assistant	4.00	54.67	\$218.68
CACR	Report Compilation, Assembly, and Distribution			
	Senior Project Manager	3.00	121.49	\$364.47
CACR	IEPA Correspondence / NFR Submission / Recording			
	Senior Admin. Assistant	3.00	54.67	\$164.01
CACR	IEPA Correspondence / NFR Submission / County Correspondence / Recording			

Employee Name	Personnel Title	Hours	Rate* (\$)	Total Cost
Remediation Category	Task			
	Senior Project Manager	16.00	121.49	\$1,943.84
CA-Pay	Reimbursement Technical Compliance / Oversight (3 Submittals)			
	Senior Prof. Engineer	6.00	157.49	\$944.94
CA-Pay	Reimbursement Review and Certification (3 Submittals)			
	Senior Acct. Technician	36.00	66.81	\$2,405.16
CA-Pay	Reimbursement Preparation (3 Submittals)			
	Senior Admin. Assistant	6.00	54.67	\$328.02
CA-Pay	Reimbursement Compilation, Assembly, and Distribution (3 Submittals)			

Employee Name	Personnel Title	Hours	Rate* (\$)	Total Cost
Remediation Category	Task			
	Senior Project Manager	6.00	121.49	\$728.94
ELUC	Groundwater Ordinance Review and Preparation/Property Owner Correspondence/Notifications			
	Senior Prof. Engineer	2.00	157.94	\$315.88
ELUC	Groundwater Ordinance Review and Preparation			
	Engineer III	12.00	121.49	\$1,457.88
ELUC	Groundwater Ordinance Notification and Certification / Correspondence			
	Engineer III	8.00	121.49	\$971.92
ELUC	City Council Meeting/Ordinance Development			
	Senior Admin. Assistant	5.00	54.67	\$273.35
ELUC	City Correspondence/Ordinance Development/Property Owner Notifications			
	Engineer III	20.00	121.49	\$2,429.80
HAA	Highway Authority Agreement			
	Senior Project Manager	8.00	121.49	\$971.92
HAA	Highway Authority Agreement review			
	Senior Admin. Assistant	4.00	54.67	\$218.68
HAA	Highway Authority Agreement / Correspondence / Agreement			
	Senior Draftperson/CAD	8.00	72.88	\$583.04
HAA	Drafting of HAA Maps			

*Refer to the applicable Maximum Payment Amounts document.

Total of Consulting Personnel Costs	\$48,683.28
--	--------------------

Consultant's Materials Costs Form

Materials, Equipment, or Field Purchase		Time or Amount Used	Rate (\$)	Unit	Total Cost
Remediation Category	Description/Justification				
PID Rental		4.00	129.00	/day	\$516.00
CCA-Field	To monitor VOC levels in excavation walls and floor				
Measuring Wheel		5.00	18.00	/day	\$90.00
CCA-Field	Measuring during excavation activities, wall, well abandonment, WC Sampling				
Per Diem		3.00	28.00	/day	\$84.00
CCA-Field	Meals and expendables for excavation and backfilling oversight personnel				
Mileage		900.00	.58	/mile	\$522.00
CCA-Field	Transportation for excavation oversight - Weekly from office - Daily from hotel				
Motel Room		3.00	60.00	/day	\$180.00
CCA-Field	Hotel rooms for excavation and backfilling oversight personnel				
Disposable Gloves		2.00	13.00	/box	\$26.00
CCA-Field	Disposable Latex Gloves for Sampling				
Copies		300.00	.15	/copy	\$45.00
CCA-Field	Copies for Field Paperwork, Plan, and Field Notes / Documentation / Analytical				
Camera		3.00	10.00	/day	\$30.00
CCA-Field	Photos for documentation of excavation activities				
Copies		200.00	.15	/copy	\$30.00
CCA-Field	Copies for field paperwork, plan and field notes				

Materials, Equipment, or Field Purchase	Time or Amount Used	Rate (\$)	Unit	Total Cost
Remediation Category	Description/Justification			
Copies	700.00	.15	/copy	\$105.00
CCAP	Copies of Report / Drafts / Forms			
Postage	2.00	6.00	/each	\$12.00
CCAP	Report Distribution and Client Forms Correspondence			
Copies	300.00	.15	/copy	\$45.00
CCAP-Budget	Copies of Drafts / Budget			
Postage	2.00	6.00	/each	\$12.00
CCAP-Budget	Budget Distribution and Client Forms and Correspondence			
Copies	1,000.00	.15	/copy	\$150.00
CACR	Copies of Completion Report			
Postage	2.00	6.00	/each	\$12.00
CACR	Completion Report Distribution and Client Forms Correspondence			
Copies	1,200.00	.15	/copy	\$180.00
CA-Pay	Copies of Reimbursement Claims/ Supporting Documentation (3 Submittals)			
Postage	6.00	6.00	/each	\$36.00
CA-Pay	Reimbursement Distribution and Client Forms Correspondence (3 Submittals)			

Materials, Equipment, or Field Purchase		Time or Amount Used	Rate (\$)	Unit	Total Cost
Remediation Category	Description/Justification				
Fees		1.00	65.00	/each	\$65.00
CACR	NFR Recording Fees				
Postage		4.00	6.00	/each	\$24.00
CACR	NFR Recording / Correspondence				
Copies		100.00	.15	/each	\$15.00
CACR	NFR Recording / Submittal				
Copies		100.00	.15	/each	\$15.00
ELUC	Groundwater Ordinance Notification., Certification, and Correspondence				
Postage		4.00	6.00	/each	\$24.00
ELUC	Groundwater Ordinance City, Certification, and Correspondence				
Copies		150.00	.15	/copy	\$22.50
HAA	Copies of HAA/Correspondence				
Postage		6.00	6.00	/each	\$36.00
HAA	Correspondence				
Mileage		1,200.00	.58	/mile	\$696.00
CCA-Field	3 Round Trips (1 -Sampling Event, 1 -Well Abandonment, 1 -City Meeting/ordinance)				

Total of Consultant Materials Costs	\$2,972.50
--	-------------------



ILLINOIS ENVIRONMENTAL PROTECTION AGENCY

1021 NORTH GRAND AVENUE EAST, P.O. BOX 19276, SPRINGFIELD, ILLINOIS 62794-9276 • (217) 782-2829

PAT QUINN, GOVERNOR

LISA BONNETT, DIRECTOR

217/524-3300

CERTIFIED MAIL

SEP 26 2014

7012 0470 0001 3004 8681

Martin & Bailey
Attention: Mr. Mark Bailey
1311A West Main Street
Carmi, Illinois 62821

Re: LPC #1930155021 -- White County
Crossville/ Maier's Grocery
109 South State Street
Leaking UST Incident No. 20091397
Leaking UST Technical File

IEPA-DIVISION OF RECORDS MANAGEMENT
RELEASABLE

OCT 16 2014

REVIEWER: EMI

Dear Mr. Bailey:

The Illinois Environmental Protection Agency (Illinois EPA) has reviewed the Corrective Action Plan (plan) submitted for the above-referenced incident. This plan, dated September 11, 2014, was received by the Illinois EPA on September 12, 2014. Citations in this letter are from the Environmental Protection Act (415 ILCS 5) (Act) and Title 35 of the Illinois Administrative Code (35 Ill. Adm. Code).

Pursuant to Sections 57.7(b)(2) and 57.7(c) of the Act and 35 Ill. Adm. Code 734.505(b) and 734.510(a), the plan is approved. The activities proposed in the plan are appropriate to demonstrate compliance with Title XVI of the Act. Please note that all activities associated with the remediation of this release proposed in the plan must be executed in accordance with all applicable regulatory and statutory requirements, including compliance with the proper permits.

Further, the Illinois EPA has determined that the use of a project labor agreement (PLA) is required, as set forth in Attachment A. A *Standard Project Labor Agreement for UST Fund Corrective Action Work* (model PLA) is available on the Illinois EPA's Leaking UST Program Web site. This model PLA has been reviewed and approved by the AFL-CIO Statewide PLA Committee, which is the central committee authorized by all respective crafts to negotiate and sign PLAs on behalf of the crafts (PLA Committee). You must submit a signed copy of the model PLA to the PLA Committee for the Committee's execution at the following address:

Michael T. Carrigan, President
Illinois AFL-CIO
534 South Second Street, Suite 200
Springfield, IL 62701-1764

4302 N. Main St., Rockford, IL 61103 (815) 987-7760
595 S. State, Elgin, IL 60123 (847) 608-3131
2125 S. First St., Champaign, IL 61820 (217) 278-5800
2009 Mall St., Collinsville, IL 62234 (618) 346-5120

9511 Harrison St., Des Plaines, IL 60016 (847) 294-4000
412 SW Washington St., Suite D, Peoria, IL 61602 (309) 671-3022
2309 W. Main St., Suite 116, Marion, IL 62959 (618) 993-7200
100 W. Randolph, Suite 10-300, Chicago, IL 60601 (312) 814-6026

PLEASE PRINT ON RECYCLED PAPER

000774

Once the PLA is fully executed, a copy will be returned to the environmental consultant retained by the UST owner or operator so the environmental consultant will know when work conducted under the PLA may begin. Please note that, as more fully set forth in Attachment A, when submitting an application for payment from the UST Fund, the UST owner or operator will be required to certify that work for which a PLA is required was performed under a PLA. The environmental consultant should provide a copy of the fully executed PLA to the UST owner or operator so the UST owner or operator will be able to make the certification.

In addition, the total budget is approved for the amounts listed in Attachment A. Please note that the costs must be incurred in accordance with the approved plan. Be aware that the amount of payment from the Fund may be limited by Sections 57.7(c), 57.8(d), 57.8(e), and 57.8(g) of the Act, as well as 35 Ill. Adm. Code 734.630 and 734.655.

NOTE: Pursuant to Section 57.8(a)(5) of the Act, if payment from the Fund will be sought for any additional costs that may be incurred as a result of the Illinois EPA's modifications, an amended budget must be submitted. Amended plans and/or budgets must be submitted and approved prior to the issuance of a No Further Remediation (NFR) Letter. Costs associated with a plan or budget that have not been approved prior to the issuance of an NFR Letter will not be paid from the Fund.

In the event that the use of a PLA will impact the project costs set forth in the approved or modified budget, a revised budget may be submitted for Illinois EPA review and decision. As set forth at 35 Ill. Adm. Code 734.800(a)(2), if the revised costs exceed the maximum payment amounts at 35 Ill. Adm. Code 734.Subpart H (Subpart H amounts), bidding is required in order for payment from the UST Fund to exceed the Subpart H amounts. Any bidding must be done in accordance with 35 Ill. Adm. Code 734.855, and the requirement for a PLA must be part of the invitation for bid.

Further, pursuant to 35 Ill. Adm. Code 734.145, it is required that the Illinois EPA be notified of field activities prior to the date the field activities take place. This notice must include a description of the field activities to be conducted; the name of the person conducting the activities; and the date, time, and place the activities will be conducted. This notification of field activities may be done by telephone, facsimile, or electronic mail—and must be provided at least three (3) working days prior to the scheduled field activities. Besides providing at least three days' notice to Leaking UST section staff in Springfield, notification must be provided to Rob Mileur either by telephone at (618)993-7223 or by e-mail at Robert.Mileur@illinois.gov.

Pursuant to Sections 57.7(b)(5) and 57.12(c) and (d) of the Act and 35 Ill. Adm. Code 734.100 and 734.125, the Illinois EPA requires that a Corrective Action Completion Report that achieves compliance with applicable remediation objectives be submitted within 30 days after completion of the plan to:

Illinois Environmental Protection Agency
Bureau of Land - #24
Leaking Underground Storage Tank Section
1021 North Grand Avenue East
Post Office Box 19276
Springfield, IL 62794-9276

Please submit all correspondence in duplicate and include the Re: block shown at the beginning of this letter.

If within four years after the approval of this plan, compliance with the applicable remediation objectives has not been achieved and a Corrective Action Completion Report has not been submitted, the Illinois EPA requires the submission of a status report pursuant to Section 57.7(b)(6) of the Act.

An underground storage tank system owner or operator may appeal this decision to the Illinois Pollution Control Board. Appeal rights are attached.

If you have any questions or need further assistance, please contact Donna Wallace at (217) 524-1283.

Sincerely,



Thomas A. Henninger
Unit Manager
Leaking Underground Storage Tank Section
Division of Remediation Management
Bureau of Land

TAH:DW:dw\

Attachment: A (Budget)
Appeal Rights

c: CWM Company
BOL File

Attachment A

Re: LPC #1930155021 -- White County
Crossville/ Maier's Grocery
109 South State Street
Leaking UST Incident No. 20091397
Leaking UST Technical File

SECTION 1

The following amounts are approved:

\$1,457.81	Drilling and Monitoring Well Costs
\$1,750.56	Analytical Costs
\$25,099.47	Remediation and Disposal Costs
\$0	UST Removal and Abandonment Costs
\$5,844.00	Paving, Demolition, and Well Abandonment Costs
\$48,683.28	Consulting Personnel Costs
\$2,972.50	Consultant's Materials Costs

Handling charges will be determined at the time a billing package is reviewed by the Illinois EPA. The amount of allowable handling charges will be determined in accordance with Section 57.1(a) of the Environmental Protection Act and 35 Illinois Administrative Code 734.635.

DW:dw\

Appeal Rights

An underground storage tank owner or operator may appeal this final decision to the Illinois Pollution Control Board pursuant to Sections 40 and 57.7(c)(4) of the Act by filing a petition for a hearing within 35 days after the date of issuance of the final decision. However, the 35-day period may be extended for a period of time not to exceed 90 days by written notice from the owner or operator and the Illinois EPA within the initial 35-day appeal period. If the owner or operator wishes to receive a 90-day extension, a written request that includes a statement of the date the final decision was received, along with a copy of this decision, must be sent to the Illinois EPA as soon as possible.

For information regarding the filing of an appeal, please contact:

Dorothy Gunn, Clerk
Illinois Pollution Control Board
State of Illinois Center
100 West Randolph, Suite 11-500
Chicago, IL 60601
312/814-3620

For information regarding the filing of an extension, please contact:

Illinois Environmental Protection Agency
Division of Legal Counsel
1021 North Grand Avenue East
Post Office Box 19276
Springfield, IL 62794-9276
217/782-5544

CW³M Company

Environmental Consulting Services

701 W. South Grand Avenue
Springfield, IL 62704

Phone: (217) 522-8001
Fax: (217) 522-8009

1930155021 – White County
Maier's Grocery
Incident # 20091397
Leaking UST Technical File

November 17, 2015

Ms. Donna Wallace, Project Manager
LUST Section, Bureau of Land
Illinois Environmental Protection Agency
1021 North Grand Avenue East
Springfield, Illinois 62794-9276

IEPA-DIVISION OF RECORDS MANAGEMENT
RELEASABLE

MAR 17 2016

REVIEWER: JKS

RE: LPC #1930155021— White County
Huck's #131 / Maier's Grocery, 109 South State Street, Crossville
LUST Incident Number: 2009-1397
LUST Technical Reports—Corrective Action Plan Amendment

Dear Ms. Wallace:

On behalf of Mr. Mark Bayley, representing Martin & Bayley, Inc, owner of former USTs at the above referenced site, we are submitting the attached Corrective Action Plan (CAP) Amendment. CW³M has included the Illinois Department of Transportation (IDOT) Screening Criteria by which a determination of a Project Labor Agreement (PLA) is made for all IDOT work. The Agency can use it for reference if need be in response to the following request to approve the Corrective Action work without a PLA.

A CAP was submitted to the IEPA on September 12, 2014; (CW³M, 2014) and was approved by the Agency on September 26, 2014 (IEPA, 2014). Based on conversations with LUST staff, no PLA's have been required recently, much less for this size and recommended submittal of a letter of reconsideration with the screening criteria, as other consultants have.

RECEIVED

The field work components costs associated with the approved CAP sum to an estimated \$31,000.00, which seemingly reinforces the lack for need of a PLA to be implemented for such a small scope of work. Excavation, transportation, and disposal of contaminated soil and material removal during early action activities amounted to 268.30 cubic yards at a cost of \$69.25 per cubic yard for a total cost of \$18,579.78, while backfilling the excavated area of 268.30 cubic yards cost \$24.30 per cubic yard for a total cost of \$6,519.69. The concrete replacement totals 690.0 square feet at a cost of \$5.30 per square foot for a total cost of \$3,657.00, while the abandonment of twelve monitoring wells on site at completion totals \$2,187.00. The scope of work needed to be performed therefore totals less than \$31,000.00 for the corrective action work to take place.

NOV 17 2015

IEPA/BOL

701 W. South Grand Avenue
Springfield, IL 62704
(217) 522-8001

400 West Jackson, Suite C
Marion, IL 62959
(618) 997-2238

We are requesting that the PLA determination be reconsidered based on the size and scope of the project. Details of the project, PLA screening, cost effectiveness, policy considerations, and other criteria are discussed further in the attachment "IDOT Screening Criteria" included herein. It would be a hardship for Mr. Bayley to complete the project under a PLA which would more than double the costs based on the small size of the project and its remote location. Because of distance to the landfill and it being such a small quantity of source removal, no contractor could previously be found to do the remediation at Subpart H rates, without consideration of the additional costs of a PLA. Once a viable option was formed, the PLA determination was placed on the work for reasons that have not been detailed.

We thank you for taking the time to consider the request. The owner is anxious to see the project concluded and use of a PLA could deter implementation of a small corrective action stage, totaling less than \$31,000. If you have any questions or require additional information, please contact Mr. Vince Smith or me at (217) 522-8001.

Sincerely,



Carol L. Rowe, P.G.
Senior Environmental Geologist

xc: Mr. Mark Bayley, *Martin & Bayley, Inc*
Mr. William T. Sinnott, *CW²M Company, Inc.*

ATTACHMENT A
PLA SCREENING CRITERION CHECKLIST

CORRECTIVE ACTION PLAN AMENDMENT

Huck's #131 / Maier's Grocery
CROSSVILLE, ILLINOIS

SCREENING CRITERIA

With the lack of detailed screening criteria from the IEPA for deciding which projects require the use of a PLA, CW³M has followed screening criteria that IDOT uses for government funded programs in their department as that State Agency follows the executive orders of Illinois Governors Blagojevich and Quinn, and President Obama. Attached at the end of this appendix is a copy of the IDOT PLA Determination screening criteria and it lists twelve seemingly ubiquitous standards used to determine the applicability of PLA for construction projects. It has been included for your reference but will be used herein as a systematic way to show how each criterion has been evaluated for applicability for ‘yes/no’ answers and whether or not the use of a PLA should be considered. CW³M recognizes that these standards may not be the same standards IEPA uses to determine the applicability of PLA for LUST sites, but IEPA correspondence issuing PLA for various sites appears to have very closely matched various IDOT screening criterion as determined in LUST Incidents 2002-0851, 2006-0366, 2009-1397, 2009-0202, 2009-0203, 2011-0859, 2012-0382, 2012-0695, 2013-0906, and 2013-1123.

1. The project is being awarded and administered by a governmentally funded program.

The “project” is privately contracted, a similar means as when a party secures legal counsel and other services. A contract is in place between a private company or citizen and a consultant or contractor who may also serve as a general contractor. That consultant will interface with governmental agencies on their behalf. They will submit claims for reimbursement after the completion of work, budgets and plan approval, and review of claims. The LUST Fund is a motor fuel tax collected by petroleum distributors, for reimbursement of LUST claims managed by the IEPA so the answer to this question is “no”. The IEPA administers the LUST Program to process claims and review technical plans and budgets not to award or administer the actual work done. As indicated on the PLA documents, the prime contractor is to secure the PLA. There is no “award” or “payment guarantee”.

2. The project is being constructed using state or local funds.

The project is constructed using private funds, which ultimately may or may not be reimbursed with state funds. The current rates that the IEPA grants for LUST work have not been modified to reflect the recent changes regarding mandated payment of prevailing wages. That disport is placed on the owner/operator and their contractors. UST owners/operators collect sales tax into the LUST Fund for reimbursement of remediation work; thus it is no longer a clear “yes” answer and the owner/operator pays a

deductible and is then reimbursed for “eligible” costs. The legislative intent of Public Act was for the IPCB remedy rates to pay prevailing wages and rectify costs of PLAs and attorney fees.

- 3. The overall size, scope, sequencing, logistics, or other aspects of the project make it particularly challenging to manage, and use of a PLA is expected to help assure that the construction work is performed properly and efficiently under the circumstances.*

As stated, PLAs were first used in Illinois for large scale, large cost, and long duration highway development projects. All LUST work, no matter size or scope, is deemed small in comparative size to work normally prescribed a PLA, therefore disqualifying it from any PLA consideration. Collective bargaining agreements are unneeded as the number of facets required for any work does not reach a quantity warranting these agreements.

Specifically, the Crossville site requires a minimal amount of work to be completed during the corrective action stage. Excavation, concrete removal and replacement, abandonment of wells on site comprise the entirety of work needed to be completed. This can and will be done within a few days of work.

- 4. The duration of construction activity on the project is expected to exceed one construction season (110 or more working days), or the nature of the project results in a heightened need for labor force continuity and stability over a substantial period of time.*

The timetable for the work to be performed at the Crossville site is only a few days time; not exceeding or coming remotely close to 110 days in duration. On a scale of a few work days, labor force continuity and stability does not arise as an issue to complete the project as it does not span the duration of collective bargaining agreements. Simply put, the scale of time and scope of work is so small that a labor agreement would not expire, causing workers to walk out of the job.

- 5. There is a firm construction completion date established for the project thereby increasing the adverse consequences of any work stoppage or other labor disruption.*

It is on the discretion of the consultant as to how quickly a plan is implemented once it is approved. With the Agency having 120 days to approve, modify, or deny a plan, consultants cannot pre-plan or schedule the work until approved. Once approved, they

coordinate with owners/operators and any subcontractors necessary with weather contingencies. Therefore, adverse consequences of labor disruptions or work stoppage are non-existent on a job that lasts a few hours to a few days for corrective action or for less than a week for actual remediation to complete. Many contractors can perform remediation services in-house or from a pool of reliable subcontractors, with easily adjustable start dates; however, it is fiscally advantageous for the consultant to complete the work as quickly as possible with fewer workers. Once started, the field portion of the project will be completed in approximately two days.

The norm on small projects like this is to solicit contractors who provide estimates as to how much the cost to complete each individual task after the contract is awarded. Because this process cannot be completed, prices will ultimately change and push the project into being “stuck” as the costs cannot be met.

6. *The time required to complete the project is expected to extend beyond the expiration date of one or more existing collective bargaining agreements covering trades likely to be involved in the project, thereby increasing the likelihood of work stoppages or other labor disruptions during construction of the project.*

With only its consultant and local contractors present at the Crossville site during the “construction event”, which last only hours to a few days, there are not multiple trades with closely or paralleled functions to create a work stoppage. The time required to complete the project will in no way come close to extending beyond the expiration of any existing collective bargaining agreements covering any of the trades.

7. *In the absence of a PLA, there is an increased likelihood of jurisdictional disputes among unions or of conflict between unionized and non-unionized workers on the project that could have a potentially material adverse effect on the time, cost, or quality of work performed on the project.*

As stated, the original intent of PLAs were for large scale construction projects. These projects would include multiple trades working together or in conjunction with one another and could make disputes between parties a potential liability as the project might last a few years. However, LUST sites differ in that one to two trades are typically necessary to complete the work. The “teams” that work together on hazardous sites, such as LUST sites, train together and develop cohesive relationships. Only a handful of workers are necessary to conduct the work; jurisdictional disputes are non-existent as the parties work in harmony.

Even at the Crossville site, excavation, concrete replacement and well abandonment will not be conducted at the same time. The trades, union or non-union, required are not on site at the same time, as the work is phased by its nature and does not overlap further limiting jurisdictional disputes. Further, the number of trades on this work is minimal as well; the work will be done by separate contractors without a mix of union and non-unionized work force.

8. *The project presents specific safety concerns to the travelling public and a PLA will ensure labor force continuity and stability, decreasing the length of the safety concern.*

LUST sites do not typically involve roads unless the Corrective Action is within right-of-ways, on ingress / egress creates roadway issues which is not commonplace. Specifically, the Crossville site is in a small town and is located on lightly traveled roadway. As stated, construction activities will take a few days to complete and therefore the length of time that safety of the traveling public as an issue is null. As for safety, consultants co-train teams in OSHA HAZWOPER to ensure not only worker safety, but safety for those who may enter or be near the work environment.

9. *Use of the PLA is expected to result in improved access to skilled labor, improved efficiency, or improved safety performance on the project.*

Attracting workers from a union hall for only a partial day or a few days of work puts them at a disadvantage for the bulk of the time, and is not an enticing option to union workers. Simply put, small LUST projects are not going to attract the workforce that would conduct “efficient” and “safe” work. A PLA, then, does not guarantee skilled workers.

Because of the small scope of work, the bidding process would significantly increase the cost of activities at the Crossville site. This would only increase the hardship of the owner and solely be detrimental to the efficiency of the project, which is the opposite of the objective put in place to push the project along towards closure.

10. *Use of the PLA on the project is not expected to have a material adverse effect on the competitive bidding process.*

The use of a PLA on the project does have a material adverse effect on bidding, financing and completion of the project. The contract award process takes place long before the work or construction ever begins. As stated, budgets are approved or modified at the discretion of the IEPA Project Managers and pre-approved IEPA rates. Competitive bidding is an option when work cannot be performed at the Agency's approved rates. The key factor here is financing. No owner can afford to pay cash for work that is bid on that they would pay double, wait months or even years to get paid for nominal handling charges, no payment guarantee (below what contractors outside of LUST get paid), and be responsible for the extra business costs of the PLA. They are not banks and NATLUST realized very quickly that having an approved budget meant nothing for security of payment, folded its tent, leaving owner/operators no other option than to pay or let contractors carry the burden. The legislative intent was to adjust the rates paid every day to the mandated prevailing wage rate and make the use of PLA's limited in scope.

11. *Use of a PLA on the project is not expected to have an adverse material effect on the ability of the Department to achieve other Departmental goals, (e.g. utilization of disadvantaged business, utilization of Illinois domiciled businesses, development of competitive vendor alternatives over time, etc.).*

By applying a PLA to a project, the Agency may in fact directly negate one of its primary objectives, as stated to advance disadvantaged businesses. The Agency has provided no basis or discussion as to how the PLA will actually increase WBE participation. We believe that the opposite effect will occur.

Furthermore, IEPA correspondence approving PLAs for various projects states that a "PLA will advance the State's interest of advancing minority-owned and women-owned business and minority and female employment". A PLA only requires that if a minority or woman employee or business is used for the project, then additional reports are required. In the competitive bidding process, it is unlikely that all bidders are female or minority; or it is far-fetched to think that all two-day construction projects with one to two workers will have either a female or minority represented in the workforce on site. There are no incentives to entice disadvantaged business participation.

In this instance, the box should not be checked if there are no incentives to hire minority workers, for example, the apprenticeship program offers \$10.00/hour back to prime

contractors when minority participation is required. Use of this screening criteria needs understood and not used loosely. If in fact any disadvantaged businesses are utilized under a PLA, their reporting costs are increased, increasing the project costs.

12. *There are other material considerations favoring or disfavoring use of a PLA on this project as follows:*

- The total cost for an extremely small excavation, backfilling, concrete removal/replacement, and well abandonment totals less than \$31,000.00, not warranting a PLA in any program.
- The site's remote location and small project will easily more than double the cost of the project with a PLA required, contradicting the idea to minimize site remediation cost.
- No reason was given by the IEPA for the implementation of a PLA on what may and should be the final step to gain closure on site; this will only further delay the goal of the Agency: closing the project, which the client is eager to finish.
- The common goal of the Agency and owner/operators is closure. A PLA on an extremely small plan will delay or indefinitely stall closure when closure is within the grasp of all parties involved.

Contract Number
County

8) This project presents specific safety concerns to the traveling public and a PLA, will ensure labor force continuity and stability, decreasing the length of the safety concern.

9) Use of a PLA is expected to result in improved access to skilled labor, improved efficiency, or improved safety performance on the Project.

10) Use of a PLA on the Project is not expected to have a material adverse effect on the competitive bidding process.

11) Use of a PLA on the Project is not expected to have a material adverse effect on the ability of the Department to achieve other Departmental goals (e.g., utilization of disadvantaged businesses, utilization of Illinois domiciled businesses, development of competitive vendor alternatives over time, etc.).

12) There are other material considerations favoring or disfavoring use of a PLA on this Project as follows:

Based upon the identified considerations, we recommend that you approve use of a PLA on this Project. Upon your approval, the Department shall undertake to negotiate in good faith a PLA with the relevant labor organization(s), and shall include in all necessary bid specifications and other documents information regarding the actual or form of PLA that is binding upon all contractors and their employees.

Agreed: _____ (Date)
{Division Chief}

Agreed: _____ (Date)
{Bureau of Design & Environment}

Agreed: _____ (Date)
{Regional Engineer}

Approved: _____ (Date)
Gary Hannig, Secretary

FHWA concurrence in the PLA for the above mentioned contract.

Division Administrator FHWA (Date)

ATTACHMENT B
CORRECTIVE ACTION PLAN FORM

CORRECTIVE ACTION PLAN AMENDMENT

Huck's #131 / Maier's Grocery
CROSSVILLE, ILLINOIS



Illinois Environmental Protection Agency

Bureau of Land • 1021 N. Grand Avenue E. • P.O. Box 19276 • Springfield • Illinois • 62794-9276

The Agency is authorized to require this information under Section 4 and Title XVI of the Environmental Protection Act (415 ILCS 5/4, 5/57 – 57.17). Failure to disclose this information may result in a civil penalty of not to exceed \$50,000.00 for the violation and an additional civil penalty of not to exceed \$10,000.00 for each day during which the violation continues (415 ILCS 5/42). Any person who knowingly makes a false material statement or representation, orally or in writing, in any label, manifest, record, report, permit, or license, or other document filed, maintained or used for the purpose of compliance with Title XVI commits a Class 4 felony. Any second or subsequent offense after conviction hereunder is a Class 3 felony (415 ILCS 5/44 and 57.17). This form has been approved by the Forms Management Center.

Leaking Underground Storage Tank Program Corrective Action Plan

A. Site Identification

IEMA Incident # (6- or 8-digit): 20091397 IEPA LPC# (10-digit): 1930155021
Site Name: Huck's #131 - Crossville
Site Address (Not a P.O. Box): 109 South State Street
City: Crossville County: White ZIP Code: 62821

B. Site Information

- Will the owner or operator seek reimbursement from the Underground Storage Tank Fund? Yes No
- If yes, is the budget attached? Yes No
- Is this an amended plan? Yes No
- Identify the material(s) released: Gasoline

RECEIVED
NOV 17 2015
IEPA/BOL

- This Corrective Action Plan is submitted pursuant to:
 - 35 Ill. Adm. Code 731.166
The material released was:
 - petroleum
 - hazardous substance (see Environmental Protection Act Section 3.215)
 - 35 Ill. Adm. Code 732.404
 - 35 Ill. Adm. Code 734.335

C. Proposed Methods of Remediation

- Soil Excavation and Backfill Replacement, Highway Authority Agreement, Groundwater Ordinance
- Groundwater Groundwater Ordinance

D. Soil and Groundwater Investigation Results

(for incidents subject to 35 Ill. Adm. Code 731 only or 732 that were classified using Method One or Two, if not previously provided)

Provide the following:

- Description of investigation activities performed to define the extents of soil and/or groundwater contamination;
- Analytical results, chain-of-custody forms, and laboratory certifications;
- Tables comparing analytical results to applicable remediation objectives;

4. Boring logs;
5. Monitoring well logs; and
6. Site maps meeting the requirements of 35 Ill. Adm. Code 732.110(a) or 734.440 and showing:
 - a. Soil sample locations;
 - b. Monitoring well locations; and
 - c. Plumes of soil and groundwater contamination.

E. Technical Information - Corrective Action Plan

Provide the following:

1. Executive summary identifying the objectives of the corrective action plan and the technical approach to be utilized to meet such objectives;
 - a. The major components (e.g., treatment, containment, removal) of the corrective action plan;
 - b. The scope of the problems to be addressed by the proposed corrective action; and
 - c. A schedule for implementation and completion of the plan;
2. Identification of the remediation objectives proposed for the site;
3. A description of the remedial technologies selected:
 - a. The feasibility of implementing the remedial technologies;
 - b. Whether the remedial technologies will perform satisfactorily and reliably until the remediation objectives are achieved; and
 - c. A schedule of when the technologies are expected to achieve the applicable remediation objectives;
4. A confirmation sampling plan that describes how the effectiveness of the corrective action activities will be monitored during their implementation and after their completion;
5. A description of the current and projected future uses of the site;
6. A description of engineered barriers or institutional controls that will be relied upon to achieve remediation objectives:
 - a. an assessment of their long-term reliability;
 - b. operating and maintenance plans; and
 - c. maps showing area covered by barriers and institutional controls;
7. The water supply well survey:
 - a. Map(s) showing locations of community water supply wells and other potable wells and the setback zone for each well;
 - b. Map(s) showing regulated recharge areas and wellhead protection areas;
 - c. Map(s) showing the current extent of groundwater contamination exceeding the most stringent Tier 1 remediation objectives;
 - d. Map(s) showing the modeled extent of groundwater contamination exceeding the most stringent Tier 1 remediation objectives;
 - e. Tables listing the setback zone for each community water supply well and other potable water supply wells;
 - f. A narrative identifying each entity contacted to identify potable water supply wells, the name and title of each person contacted, and any field observations associated with any wells identified; and
 - g. A certification from a Licensed Professional Engineer or Licensed Professional Geologist that the survey was conducted in accordance with the requirements and that documentation submitted includes information obtained as a result of the survey (certification of this plan satisfies this requirement);

8. Appendices:
 - a. References and data sources report that are organized; and
 - b. Field logs, well logs, and reports of laboratory analyses;
9. Site map(s) meeting the requirements of 35 Ill. Adm. Code 732.110(a) or 734.440;
10. Engineering design specifications, diagrams, schematics, calculations, manufacturer's specifications, etc.;
11. A description of bench/pilot studies;
12. Cost comparison between proposed method of remediation and other methods of remediation;
13. For the proposed Tier 2 or 3 remediation objectives, provide the following:
 - a. The equations used;
 - b. A discussion of how input variables were determined;
 - c. Map(s) depicting distances used in equations; and
 - d. Calculations; and
14. Provide documentation to demonstrate the following for alternative technologies:
 - a. The proposed alternative technology has a substantial likelihood of successfully achieving compliance with all applicable regulations and remediation objectives;
 - b. The proposed alternative technology will not adversely affect human health and safety or the environment;
 - c. The owner or operator will obtain all Illinois EPA permits necessary to legally authorize use of the alternative technology;
 - d. The owner or operator will implement a program to monitor whether the requirements of subsection (14)(a) have been met;
 - e. Within one year from the date of Illinois EPA approval, the owner or operator will provide to the Illinois EPA monitoring program results establishing whether the proposed alternative technology will successfully achieve compliance with the requirements of subsection (14)(a); and
 - f. Demonstration that the cost of alternative technology will not exceed the cost of conventional technology and is not substantially higher than at least two other alternative technologies, if available and technically feasible.

F. Exposure Pathway Exclusion

Provide the following:

1. A description of the tests to be performed in determining whether the following requirements will be met:
 - a. Attenuation capacity of the soil will not be exceeded for any of the organic contaminants;
 - b. Soil saturation limit will not be exceeded for any of the organic contaminants;
 - c. Contaminated soils do not exhibit any of the reactivity characteristics of hazardous waste per 35 Ill. Adm. Code 721.123;
 - d. Contaminated soils do not exhibit a $\text{pH} \leq 2.0$ or ≥ 12.5 ; and
 - e. Contaminated soils which contain arsenic, barium, cadmium, chromium, lead, mercury, or selenium (or their associated salts) do not exhibit any of the toxicity characteristics of hazardous waste per 35 Ill. Adm. Code 721.124.
2. A discussion of how any exposure pathways are to be excluded.

G. Signatures

All plans, budgets, and reports must be signed by the owner or operator and list the owner's or operator's full name, address, and telephone number.

UST Owner or Operator

Name Martin and Bayley, Inc
Contact Troy Dietz
Address 1311A West Main Street
City Carmi
State Illinois
Zip Code 62821
Phone _____
Signature *Troy Dietz*
Date 11/12/15

Consultant

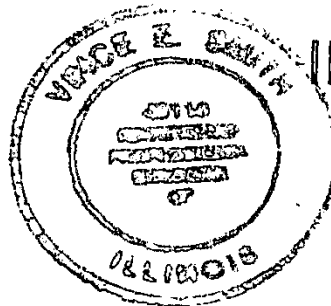
Company CWM Company, Inc
Contact Carol Rowe
Address 701 West South Grand
City Springfield
State Illinois
Zip Code 62704
Phone 217-522-8001
Signature *Carol Rowe*
Date 11/17/15

I certify under penalty of law that all activities that are the subject of this plan were conducted under my supervision or were conducted under the supervision of another Licensed Professional Engineer or Licensed Professional Geologist and reviewed by me; that this plan and all attachments were prepared under my supervision; that, to the best of my knowledge and belief, the work described in this plan has been completed in accordance with the Environmental Protection Act [415 ILCS 5], 35 Ill. Adm. Code 731, 732 or 734, and generally accepted standards and practices of my profession; and that the information presented is accurate and complete. I am aware there are significant penalties for submitting false statements or representations to the Illinois EPA, including but not limited to fines, imprisonment, or both as provided in Sections 44 and 57.17 of the Environmental Protection Act [415 ILCS 5/44 and 57.17].

Licensed Professional Engineer or Geologist

Name Vince E. Smith
Company CWM Company, Inc.
Address 701 West South Grand
City Springfield
State Illinois
Zip Code 62704
Phone 217-522-8001
Ill. Registration No. 062-046118
License Expiration Date 11/30/17
Signature *Vince E. Smith*
Date 11/17/15

L.P.E. or L.P.G. Seal



RECEIVED

NOV 17 2015

EPA/BOL

Contract Number
County

IDOT PROJECT LABOR AGREEMENT DETERMINATION

To:

From:

Date:

Re:

In accordance with Executive Order 2003-13 (Blagojevich), it is recommended that a project labor agreement (PLA) be utilized for the above-captioned Project. This recommendation is based on the considerations indicated below.

- 1) The Project is being awarded and administered by IDOT (i.e., not by another governmental agency).
- 2) The Project is being constructed using state or local funds only (i.e., no federal funds).
- 3) The overall size, scope, sequencing, logistics or other aspects of the Project make it particularly challenging to manage, and use of a PLA is expected to help assure that the construction work is performed properly and efficiently under the circumstances.
- 4) The duration of construction activity on the Project is expected to exceed one construction season (i.e., 110 or more working days), or the nature of the Project results in a heightened need for labor force continuity and stability over a substantial period of time.
- 5) There is a firm construction completion date established for the Project thereby increasing the adverse consequences of any work stoppage or other labor disruption.
- 6) The time required to complete the Project is expected to extend beyond the expiration date of one or more existing collective bargaining agreements covering trades likely to be involved in the Project, thereby increasing the likelihood of work stoppage(s) or other labor disruption(s) during construction of the Project.
- 7) In the absence of a PLA, there is an increased likelihood of jurisdictional disputes among unions or of conflict between unionized and non-unionized workers on the Project that could have a potentially material adverse effect on the time, cost, or quality of work performed on the Project.



ILLINOIS ENVIRONMENTAL PROTECTION AGENCY

2021 NORTH GRAND AVENUE EAST, P.O. BOX 19276, SPRINGFIELD, ILLINOIS 62794-9276 • (217) 782-2829
BRUCE RAUNER, GOVERNOR LISA BONNETT, DIRECTOR

217/524-3300

CERTIFIED MAIL

7014 2120 0002 3287 6021

MAR 15 2016

Martin and Bayley, Inc.
Attention: Troy Dietz
1311A West Main Street
Carmi, Illinois 62821

EPA - DIVISION OF RECORDS MANAGEMENT
RELEASABLE

MAR 31 2016

Re: LPC #1930155021 -- White County
Crossville / Maier's Grocery
109 South State Street
Leaking UST Incident No. #20091397
Leaking UST Technical File

REVIEWER RDH

Dear Mr. Dietz:

The Illinois Environmental Protection Agency (Illinois EPA) has reviewed the Corrective Action Plan (plan) submitted for the above-referenced incident. This plan, dated November 17, 2015, was received by the Illinois EPA on November 19, 2015. Citations in this letter are from the Environmental Protection Act (415 ILCS 5) (Act) and Title 35 of the Illinois Administrative Code (35 Ill. Adm. Code).

Pursuant to Sections 57.7(b)(2) and 57.7(c) of the Act and 35 Ill. Adm. Code 734.505(b) and 734.510(a), the plan is approved. The activities proposed in the plan are appropriate to demonstrate compliance with Title XVI of the Act. Please note that all activities associated with the remediation of this release proposed in the plan must be executed in accordance with all applicable regulatory and statutory requirements, including compliance with the proper permits.

NOTE: The plan proposes activities that are technically acceptable. However, this letter does not constitute Illinois EPA approval of any costs incurred during the completion of such activities. For the purpose of payment from the Underground Storage Tank Fund, some of the activities may exceed those necessary to meet the minimum requirements of the Act and regulations. Owners and operators are advised that they may not be entitled to full payment for this reason. The Illinois EPA will review your complete request for partial or final payment from the Fund after it is submitted to the Illinois EPA.

Further, pursuant to 35 Ill. Adm. Code 734.145, it is required that the Illinois EPA be notified of field activities prior to the date the field activities take place. This notice must include a description of the field activities to be conducted; the name of the person conducting the activities; and the date, time, and place the activities will be conducted.

This notification of field activities may be done by telephone, facsimile, or electronic mail—and must be provided at least two weeks prior to the scheduled field activities.

Pursuant to Sections 57.7(b)(5) and 57.12(c) and (d) of the Act and 35 Ill. Adm. Code 734.100 and 734.125, the Illinois EPA requires that a Corrective Action Completion Report that achieves compliance with applicable remediation objectives be submitted within 30 days after completion of the plan to:


Illinois Environmental Protection Agency
Bureau of Land - #24
Leaking Underground Storage Tank Section
1021 North Grand Avenue East
Post Office Box 19276
Springfield, IL 62794-9276

Please submit all correspondence in duplicate and include the Re: block shown at the beginning of this letter.

If within four years after the approval of this plan, compliance with the applicable remediation objectives has not been achieved and a Corrective Action Completion Report has not been submitted, the Illinois EPA requires the submission of a status report pursuant to Section 57.7(b)(6) of the Act.

If you have any questions or need further assistance, please contact the Illinois EPA project manager, Eric Kuhlman, at 217-785-5715.

Sincerely,


Stephen A. Colantino
Acting Unit Manager
Leaking Underground Storage Tank Section
Division of Remediation Management
Bureau of Land

SAC:EK:PA

c: CWM Company, Inc.
BOL File

CW²M Company

Environmental Consulting Services

701 W. South Grand Avenue
Springfield, IL 62704

Phone: (217) 522-8001
Fax: (217) 522-8009

July 8, 2025

Mr. Eric Kuhlman, Project Manager
LUST Section, Bureau of Land
Illinois Environmental Protection Agency
2520 W Iles Ave, PO Box 19276
Springfield, IL 62794-9276

1930155021 -White County
Maier's Grocery
Incident # 20091397
LUST TECH FILE

RE: LPC #1930155021-White County
Maier's Grocery - Huck's #131
109 South State Street, Crossville, Illinois
Incident Numbers: 2009-1397
LUST Technical Reports—Corrective Action Plan and Budget Amendment

Dear Mr. Kuhlman:

On behalf of Martin & Bayley, Inc., owner of the USTs at the above referenced site, we are submitting the attached Corrective Action Plan (CAP) and Budget Amendment.

If you have any questions or require additional information, please contact Mr. Matthew Saladino or me at (217) 522-8001.

Sincerely,



Carol L. Rowe, P.G.
Senior Environmental Geologist

xc: Mr. Landon Bayley, *Martin & Bayley, Inc.*

IEPA
Division of Records Management
Releasable

JUL 17 2025
Reviewer: AMS

RECEIVED

JUL 14 2025

IEPA/BOL

701 W. South Grand Avenue
Springfield, IL 62704
(217) 522-8001

901 North Carbon Street, Suite 8
Marion, IL 62959
(618) 997-2238

1930155021 -White County
Maier's Grocery
Incident # 20091397
LUST TECH FILE

CORRECTIVE ACTION PLAN AND BUDGET AMENDMENT

MAIER'S GROCERY

**CROSSVILLE, ILLINOIS
LPC #1930155021—White County
LUST Incident Number 2009-1397**

Submitted to:

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY

Leaking Underground Storage Tank Section, Bureau of Land
2520 W Iles Ave, PO Box 19276
Springfield, IL 62794-9276

Prepared By:

CW³M COMPANY, INC.

701 W. South Grand Ave.
Springfield, Illinois
(217) 522-8001

901 North Carbon Street,
Suite 8
Marion, Illinois
(618) 997-2238

JULY 2025

RECEIVED

JUL 14 2025

IEPA/BOL

TABLE OF CONTENTS

APPENDICES ii
 TABLES iii
 ACRONYMS AND ABBREVIATIONS iii

1. SITE HISTORY/EXECUTIVE SUMMARY 1
 1.1 General 1
 1.2 Site Location 1
 1.3 Underground Storage Tank Information 2
 1.4 Early Action Summary 2
 1.5 Site Investigation Summary 3
 1.6 Corrective Action Summary 3

2. REMEDIATION OBJECTIVES 4
 2.1 Determination of Clean-up Objectives 4
 2.2 Soil and Groundwater Objectives 5

3. CORRECTIVE ACTION PLAN 6
 3.1 Drilling Method 7
 3.2 Soil Sampling Protocol 7
 3.3 Groundwater Sampling Protocol 8
 3.4 Current and Projected Uses of the Site 8
 3.5 Institutional Controls Proposed 8
 3.6 Water Supply Well Survey 9
 3.7 Closure 9

4. REFERENCES. 10

APPENDICES

APPENDIX A Corrective Action Plan Form
 APPENDIX B Site Maps and Illustrations
 APPENDIX C OSFM Eligibility Determination
 APPENDIX D TACO Calculations and Modeling
 APPENDIX E Summary of Analytical Results
 APPENDIX F Corrective Action Budget

TABLES

Table 1-1 Underground Storage Tank Summary.....	2
Table 2-1 Soil Remediation Objectives.....	5
Table 2-2 Groundwater Remediation Objectives.....	5
Table 3-1 Water Supply Well Information.....	9

ACRONYMS AND ABBREVIATIONS

AET	Applied Environmental Technologies, Inc.
BETX	benzene, ethylbenzene, toluene and total xylenes
CACR	Corrective Action Completion Report
CAP	Corrective Action Plan
CUOs	Clean-Up Objectives
CW ³ M	CW ³ M Company, Inc.
Ill. Adm. Code	Illinois Administrative Code
IEMA	Illinois Emergency Management Agency
IEPA	Illinois Environmental Protection Agency
ISGS	Illinois State Geological Survey
ISWS	Illinois State Water Survey
LUST	Leaking Underground Storage Tank
mg/kg	milligrams per kilogram (parts per million)
mg/L	milligrams per liter
ml	Milliliters
MTBE	Methyl tert-butyl ether
PID	Photoionization detector
PVC	polyvinyl chloride
OSFM	Office of the State Fire Marshal
ROW	Right of Way
SICR	Site Investigation Completion Report
SIP	Site Investigation Plan
TACO	Tiered Approach to Corrective Action Objectives
TCLP	Toxicity Characteristic Leaching Procedure
USTs	Underground Storage Tank

1. SITE HISTORY/EXECUTIVE SUMMARY

1.1 GENERAL

Mr. Mark Bayley, representing Martin and Bayley, Inc. /Maier's Grocery, the owner of the underground storage tanks (USTs) at Huck's Convenience Store #131, reported a release to the Illinois Emergency Management Agency (IEMA) following an environmental assessment. Incident Number 2009-1397 was assigned on December 16, 2009. Martin and Bayley, Inc. has now requested that CW³M Company, Inc. (CW³M) proceed with reporting requirements in accordance with 35 Illinois Administrative Code (Ill Adm. Code) § 734. This Corrective Action Plan (CAP) and Budget Amendment is being prepared for Incident 2009-1397.

The 20-Day Certification was submitted to the Illinois Environmental Protection Agency (IEPA) on December 30, 2009 (AET, 2009). The 45-Day Report was submitted on January 26, 2010 (AET, 2010a) and was approved by the Agency on February 4, 2010 (IEPA, 2010a). Applied Environmental Technologies, Inc. (AET) conducted a Stage 2 and Stage 3 Site Investigation simultaneously and both reports were submitted on September 17, 2010 (AET, 2010b) and approved by the Agency on October 20, 2010 (IEPA, 2010b). CW³M Company, Inc. submitted an Amended Stage 2/3 Site Investigation Plan (SIP) and Budget to the Agency on July 19, 2013 (CW³M, 2013a) which was approved with modifications to the budget on August 8, 2013 (IEPA, 2013a). An additional Amended Stage 2/3 SIP and Budget was submitted on October 1, 2013 (CW³M, 2013b) and was approved by the Agency on October 23, 2013 (IEPA, 2013b). A Site Investigation Completion Report (SICR) was submitted to the Agency on June 23, 2014 (CW³M, 2014a) and was approved on July 1, 2014 (IEPA, 2014a). A CAP and Budget was submitted to the Agency on September 12, 2014 (CW³M, 2014b), which was approved on September 26, 2014 (IEPA, 2014b). A CAP Amendment was submitted to the Agency on November 17, 2015 (CW³M, 2015), which was approved on March 15, 2016 (IEPA, 2016).

This proposed CAP and Budget Amendment has been prepared in accordance with the requirements of the 35 Ill. Adm. Code § 734. The IEPA CAP Form is included in this document as Appendix A. The proposed Corrective Action Budget and certification are included herein as Appendix F. This report is certified by an Illinois Licensed Professional Engineer. The geological investigation and site investigation was performed under the direction of an Illinois Licensed Professional Geologist and completed in accordance with the Professional Geologist Licensing Act and its Rules for Administration.

1.2 SITE LOCATION

The site, known as Huck's #131 / Maier's Grocery is located at 109 South State Street, Crossville, White County, Illinois 62821. The site is located in the SW¼ of the NE ¼ of the

SE ¼ of Section 23, Township 4 South of the Centralia Baseline and Range 10 East of the Third Principal Meridian.

1.3 UNDERGROUND STORAGE TANK INFORMATION

Applied Environmental Technologies, Inc. personnel were at the site on December 16, 2009 to conduct early action activities. Two (2) ten thousand (10,000) gallon USTs, one (1) eight thousand (8,000) gallon UST, and one (1) four thousand (4,000) gallon UST were present at the facility; all containing gasoline. Under permit No. 00007-2010REM issued by Office of the Illinois State Fire Marshal (OSFM) Tank Specialist Daniel Starks, the two (2) ten thousand (10,000) gallon USTs were removed on January 27, 2010. A narrative of the tank removals and other early action activities can be found in the 45-Day Report (AET, 2010a). Tank information is included in Table 1-1.

Table 1-1. Underground Storage Tank Summary

Tank Number	Tank Volume (gallons)	Tank Contents	Incident Number	Release Information	Current Status
1	10,000	Gasoline	2009-1397	Tank Leak	Removed 1/27/2010
2	10,000	Gasoline	2009-1397	Tank Leak	Removed 1/27/2010
3	8,000	Gasoline	none	n/a	Currently in use
6	4,000	Gasoline	none	n/a	Currently in use

1.4 EARLY ACTION SUMMARY

Following IEMA notification of the release, Mr. Mark Bayley requested that AET proceed with reporting requirements and early action activities in accordance with 35 Ill. Adm. Code § 734.

While on site on December 16, 2009 for an environmental assessment, AET personnel observed soil discoloration and odor in a soil boring advanced adjacent to the tank pit which contained the two (2) 10,000-gallon UST's. Permit No. 00007-2010REM was issued by OSFM Tank Specialist Daniel Starks. Starks was on site to observe the removal of the two (2) 10,000-gallon USTs on January 27, 2010. Following the removal of the tanks, the cause of the release was confirmed to be the result of holes in the USTs.

Approximately 544 tons (362 cubic yards) of contaminated backfill was removed from the former tank pit and taken to Veolia Landfill in Fairfield, Illinois. Applied Environmental Technologies, Inc. then collected nineteen (19) soil samples in early action which were analyzed for benzene, ethylbenzene, toluene, and total xylenes (BETX), methyl-tert-butyl-ether (MTBE), Toxicity Leaching Characteristic Leaching Procedure (TCLP) Lead, and Total Lead. Soil samples were collected from the excavation walls and floor, the supply lines, and beneath the dispensers, as required. Soil analytical results indicated that the most stringent Tier 1 Clean-up Objectives (CUOs) have been exceeded by benzene, ethylbenzene, MTBE, and lead at various locations around the tank pit area. The soil boring logs and analytical results from early action sampling were included in the 45-Day Report (AET, 2010a). A summary of all analytical results has been included in Appendix E.

1.5 SITE INVESTIGATION SUMMARY

Soil analytical results indicate that the CUOs for the site have been exceeded but are contained within the property boundaries and the right-of-way (ROW) of the alley south of the site. Contamination is located in the southern portion of the site near the former tank pit. Indicator contaminants have exceeded the objectives of benzene and lead TCLP contaminants. Based on site investigations, the soil plume has been defined.

Groundwater analytical results indicate that the Clean-Up Objectives for the site have been exceeded and are not contained within the property boundary. Contamination is located in the center of the property and the southeastern property line. Due to denial of off-site agreements, the groundwater contamination plume is defined in the southeastern corner of the property and may cross into the ROW onto the alley adjacent the property and Illinois Route 1 and 14. Based on the site investigations, the groundwater plume has been defined.

A table summarizing all soil and groundwater analytical has been included herein and can be found in Appendix E. All soil and groundwater samples were collected and analyzed for BETX, MTBE, and TCLP Lead indicator parameters. The summarized values include a comparison to the IEPA's most stringent Tier 1 CUOs.

1.6 CORRECTIVE ACTION SUMMARY

The results from the site investigation activities indicate that soil contamination above Tier 1 Clean-up Objectives is present and has been defined on-site. Upon the determination of Tiered Approach to Corrective Action Objectives (TACO) Tier 2 CUOs, it is apparent that the levels of contamination have exceeded Tier 2 Residential CUOs at multiple sampling locations. A vast majority of the contamination delineated on site only exceeds the Migration Mass-Limit for Class I groundwater. One sample, early action wall sample 11, exceeds the Tier 2 Construction Worker Inhalation CUO for total xylenes. This sample location was proposed to be excavated in the previously submitted CAP (CW³M, 2014b), but

this proposed excavation has since been deemed infeasible. Refer to Section 3 of this CAP for further discussion.

Groundwater analytical results indicate that the Tier 1 CUOs have been exceeded at locations on site. The groundwater plume is defined on-site to the north and west. Due to denial of off-site agreements, the groundwater contamination plume is defined in the southeastern corner of the property and may cross into the ROW onto the alley adjacent the property and into the right-of-way Illinois Route 1 and 14. With the determination of site-specific soil conditions, R-26 modeling indicates that groundwater contamination detected in monitoring well MW-3 has the potential of migrating 102 feet.

2. REMEDIATION OBJECTIVES

2.1 DETERMINATION OF CLEAN-UP OBJECTIVES

In accordance with 35 Ill. Adm. Code 734, remediation objectives were determined in accordance with 35 Ill. Adm. Code 742. The site-specific physical parameters have been determined, and are calculated below.

Hydraulic Conductivity (K), 1.74×10^{-4} cm/sec

Soil bulk density (ρ_b), 1.398 g/cm³

Soil particle density (ρ_s), 2.523 g/cm³

Moisture content (w), 0.23

Organic carbon content (f_{oc}), 0.00630 g/g

An ex-situ hydraulic conductivity test was performed during site investigation activities. The test was performed by lowering a “slug” constructed of polyvinyl chloride (PVC) into a monitoring well (MW-10). When the slug was lowered into the well, the groundwater was displaced by the volume of the slug. As the water within the well equilibrated, groundwater depth changes were recorded in relation to the time interval that had passed since the test was initiated.

The hydraulic conductivity calculations are based on the total well depth, screen length and radius, initial water depth and the water depth change over time. The depth-to-water changes over time were plotted on a semi-logarithmic graph and the curve was evaluated. The slope of the straight-line portion of the curve, along with the slug test data, was used to calculate the hydraulic conductivity.

2.2 SOIL AND GROUNDWATER OBJECTIVES

The soil and groundwater objectives are listed for the site below in tabular format. Values are listed with a groundwater usage restriction. Additionally, the groundwater at this site continues to be considered Class 1 unless demonstrated otherwise pursuant to 35 Ill. Adm. Code § 620.210.

Table 2-1. Soil Remediation Objectives

Parameter	TACO Residential Tier 1 Clean-up Objectives (mg/kg)	TACO Residential Tier 2 Soil Clean-up Objective w/GW pathway removed (mg/kg)
Benzene	0.03	2.94
Ethylbenzene	58.0	58.0
Toluene	12.0	657.13
Total Xylenes	5.6	90.98
MTBE	0.32	506.2

Table 2-2. Groundwater Remediation Objectives

Parameter	TACO Tier 1 Class I Clean-up Objective (mg/L)
Benzene	0.005
Ethylbenzene	0.7
Toluene	1.0
Total Xylenes	10.0
MTBE	0.07

3. CORRECTIVE ACTION PLAN

The goal of remediation is to bring the contaminant levels of the soil and groundwater at the Huck's #131 site in Crossville below CUOs and reduce the chance of exposure to contaminated soil and groundwater. A number of remediation technologies are available for Leaking Underground Storage Tank (LUST) sites. The selection of a clean-up technology involves a choice of the option best suited to meet the clean-up objectives for the site within a reasonable timeframe in a cost-conscious manner. At the Huck's #131 site, CW³M has identified possible technology options, screened the options according to threshold requirements, and selected the best of the remaining options.

The following CAP and Budget has been prepared by CW³M Company, Inc., as recommendation for the most appropriate approach to the remediation of the contamination for the Huck's #131 in Crossville, Illinois.

As part of this CAP, a determination that lead is not a necessary indicator contaminant for the incident is being made. Firstly, there is no indication that lead was ever an indicator contaminant for the release, which was solely called in for unleaded gasoline. Per Ill. Adm. Code 742 Appendix A Table G, the concentration of lead in background soils for a county outside a metropolitan statistical area is 20.9 mg/kg. The highest value of lead at the Huck's #131 site in Crossville to date is 19 mg/kg, with most values being anywhere from 0 to 10 mg/kg. It is the opinion of CW³M that the lead values are clearly representative of background concentrations in the native soil, and need not be addressed for Incident Number 2009-1397. With this determination, the lead and TCLP lead pathways, both soil and groundwater, are deemed complete and need not be investigated. Additionally, any and all R-26 modeling and plume limits regarding lead and TCLP lead are considered unnecessary and will be omitted for the remainder of the cleanup of Incident Number 2009-1397.

With the removal of lead as an indicator contaminant, there are only two samples remaining which show to migrate off-site to the west-northwest: groundwater sample MW-3, as well as early action wall soil sample 11. It is proposed as part of this CAP to re-sample both respective samples to determine whether natural attenuation has occurred, and the modeling does not reach any off-site properties. Early action wall sample 11 was obtained in January 2010, while groundwater sample MW-3 was obtained in June 2010. It is highly likely that with the removal of the source in 2009, the levels of contamination have greatly reduced, which would aid in attaining closure of the incident. It is due to note that the Village of Crossville is a small community and unlikely to have the ability to issue an ordinance. A groundwater ordinance has previously been proposed, which no response was made to. Therefore, it is the hope that re-sampling of these two locations will attain lower levels of contamination and negate the need for any potential groundwater ordinance or any other off-site institutional control.

Finally, it is due to note that the recent CAP (CW³M, 2014b) proposed the excavation of early action wall sample 11. This CAP was approved by the Agency on September 26, 2014

(IEPA, 2014b). As part of this proposed excavation, it was discussed with the current property owner, Maier's Grocery, that a tank removal of the two active USTs on-site, tanks 3 and 6, would be conducted. Therefore, the access to early action wall sample 11 would be practical. Since this time, however, Maier's Grocery determined that they did not want to remove the active USTs. As such, the excavation of soil encompassing early action wall sample 11 was deemed infeasible, due to its proximity to the active tank field. The lapse of time between the most recent CAP and this proposed CAP was to determine whether or not the UST removal would take place, which would facilitate the approved corrective action excavation. However, now that it has been over 10 years with no resolution, it was determined that the re-sampling proposed in this CAP would be the potential path forward to gain closure for Incident Number 2009-1397.

Therefore, CW³M is proposing to re-sample early action wall sample 11. Because early action wall sample 11 was obtained at a depth of six feet below ground surface, the proposed soil boring will be advanced to 10 feet below ground surface, with one sample being obtained within the 5-10-foot sampling interval. Additionally, a soil gas-vapor sample is being proposed adjacent to early action wall sample 11 to a depth of five feet below ground surface. Finally, CW³M is proposing to re-sample the groundwater in MW-3 to determine if the levels of groundwater contamination have reduced, which could minimize the need for any off-site restrictions to address the R-26 modeling of soil-to-groundwater and groundwater contamination. All three of the proposed samples will be analyzed for BETX and MTBE. Soil boring logs will be completed as part of field activities. A map illustrating the proposed sampling locations is included in Appendix B as Drawing 0011. Additionally, an updated groundwater survey will be conducted while on-site conducting the proposed field work.

3.1 DRILLING METHOD

Five-foot continuous samplers have been and will continue to be used to advance and characterize each boring. This method was selected to minimize the likelihood of gaps in the sample column. Augers were and will continue to be decontaminated with a pressure steam wash between borings to prevent cross-contamination. Soil boring logs have been and will continue to be prepared for all soil borings.

3.2 SOIL SAMPLING PROTOCOL

All samples were and will be collected utilizing proper sampling protocol. Samplers wear new, disposable, latex gloves for each sampling event. Samples are collected from each five-foot interval from the area most contaminated; if an area of highest contamination cannot be determined or no apparent contamination is distinguished, samples are collected at the center of each five-foot sample tube. Each of the samples from the continuous sampler is screened using a photoionization detector (PID). Samples will be collected approximately every 2-3

feet and placed in sealed containers to record PID readings. This method provides the most reliable results as the samples are discrete. There is no interference with other depths and assurance that the meter zeroes out prior to reading the next sample, all while the core is left open to air. Proper sampling, decontamination and chain-of-custody procedures were employed. The sample containers were filled, labeled, and kept cool (to 6°C or below) until shipment to the laboratory for BETX and MTBE analysis. Sample descriptions were recorded on the boring log prepared for each boring.

All soil samples were analyzed by an accredited laboratory using test methods identified under 35 Ill. Adm. Code § 186.180. As required by the LUST Section, a Laboratory Certification for Chemical and/or Physical Analysis accompanies each of the sample results that have been reported.

3.3 GROUNDWATER SAMPLING PROTOCOL

All samples are collected utilizing proper sampling protocol. Samplers wear clean, disposable latex gloves, which are changed between each sample. The water level in each newly-installed well is measured prior to sampling to determine the direction of the flow of groundwater. Prior to sampling, the water above the well screen is extracted from each well utilizing clean, disposable bailers to purge the well of its contents and collect a fresh sample of groundwater as it flows into the well.

Groundwater samples are gently poured into 40 milliliter (mL) glass vials for BETX and MTBE analysis. The samples are placed in coolers with ice for delivery to the laboratory. Proper chain-of-custody procedures are followed. Each sample is labeled immediately upon collection and logged onto the chain-of-custody form. The chain-of-custody form is transported with the samples and then relinquished to the laboratory. The data collected is used to determine the groundwater flow directions and whether the applicable groundwater quality standards are exceeded.

3.4 CURRENT AND PROJECTED USES OF THE SITE

The site is located in a commercial / residential district of Crossville, Illinois. Surrounding the site are private residences as well as small businesses. The site borders Main Street (Route 14) to the north and Illinois Route 1 to the east. The site remains as the only active fueling station and grocery/convenience store for the City of Crossville.

3.5 INSTITUTIONAL CONTROLS PROPOSED

A determination of the need for any institutional controls will be addressed at the conclusion of the proposed field activities.

3.6 WATER SUPPLY WELL SURVEY

A survey of water supply wells for the purpose of identifying and locating all community water supply wells within 2,500 feet of the UST systems and all potable water supply wells within 200 feet of the UST systems has been conducted. The Illinois State Water Survey (ISWS), the Illinois State Geological Survey (ISGS) and the IEPA Division of Public Water Supplies were contacted via the Source Water Assessment Program online.

The ISGS, ISWS, and IEPA Division of Public Water Supplies were accessed on line on June 20, 2025 (EPA.STATE.IL.US, 2025). The response indicated that four wells were located within 2,500 feet of the site and no wells are within the designated setback zone.

Table 3-1. Water Supply Well Information

Well ID	Type	Depth of Well (feet)	Distance From USTs (feet)	Setback Zone (feet)
04154	ISGS	0	225	200
04155	ISGS	41	225	200
04156	ISGS	41	1,225	200
31680	ISGS	74	1,275	200

3.7 CLOSURE

Once the proposed drilling and sampling is completed, and all necessary institutional controls are determined, a CAP and Budget Amendment or Corrective Action Completion Report (CACR) will be submitted to the IEPA, dependent upon the analytical results. Future submittals will be accompanied by a certification from an Illinois Registered Professional Engineer.

4. REFERENCES

- AET, 2009. Applied Environmental Technologies, Inc., *20-Day Report, Maier's Grocery*, Crossville, Illinois, December 30, 2009.
- AET, 2010a. Applied Environmental Technologies, Inc., *45-Day Report, Maier's Grocery*, Crossville, Illinois, January 26, 2010.
- AET, 2010b. Applied Environmental Technologies, Inc., *Site Investigation Plan and Budget Stage 2/3, Maier's Grocery*, Crossville, Illinois, September 17, 2010.
- CW³M, 2013a. CWM Company, Inc., *Amended Stage 2/3 Site Investigation Plan and Budget, Maier's Grocery*, Crossville, Illinois, July 19, 2013.
- CW³M, 2013b. CWM Company, Inc., *Amended Stage 2/3 Site Investigation Plan and Budget, Maier's Grocery*, Crossville, Illinois, October 1, 2013.
- CW³M, 2014a. CWM Company, Inc., *Site Investigation Completion Report, Maier's Grocery*, Crossville, Illinois, June 23, 2014.
- CW³M, 2014b. CWM Company, Inc., *Corrective Action Plan and Budget, Maier's Grocery*, Crossville, Illinois, September 12, 2014.
- CW³M, 2015. CWM Company, Inc., *Corrective Action Plan Amendment, Maier's Grocery*, Crossville, Illinois, November 17, 2015.
- EPA.STATE.IL.US, 2025. Source Water Assessment Program, *Water Well Survey Map* www.maps.epa.state.il.us, accessed June 20, 2025.
- IEPA, 2010a. Illinois Environmental Protection Agency, *45-Day Report Correspondence, Maier's Grocery*, Crossville, Illinois, February 4, 2010.
- IEPA, 2010b. Illinois Environmental Protection Agency, *Stage 2 / 3 Site Investigation Plan and Budget Correspondence, Maier's Grocery*, Crossville, Illinois, October 20, 2010.
- IEPA, 2013a. Illinois Environmental Protection Agency, *Amended Stage 2 / 3 Site Investigation Plan and Budget Correspondence, Maier's Grocery*, Crossville, Illinois, August 8, 2013.
- IEPA, 2013b. Illinois Environmental Protection Agency, *Amended Stage 2 / 3 Site Investigation Plan and Budget Correspondence, Maier's Grocery*, Crossville, Illinois, October 23, 2013.
- IEPA, 2014a. Illinois Environmental Protection Agency, *Site Investigation Completion Report Correspondence, Maier's Grocery*, Crossville, Illinois, July 1, 2014.

*CW³M Company, Inc.
Corrective Action Plan and Budget
Huck's #131 / Maier's Grocery
LPC #1930155021—Incident Number 2009-1397*

IEPA, 2014b. Illinois Environmental Protection Agency, *Corrective Action Plan and Budget Correspondence, Maier's Grocery*, Crossville, Illinois, September 26, 2014.

IEPA, 2016. Illinois Environmental Protection Agency, *Corrective Action Plan Amendment Correspondence, Maier's Grocery*, Crossville, Illinois, March 15, 2016.

*CW³M Company, Inc.
Corrective Action Plan and Budget
Huck's #131 / Maier's Grocery
LPC #1930155021—Incident Number 2009-1397*

APPENDIX A

CORRECTIVE ACTION PLAN FORM

**CORRECTIVE ACTION PLAN AND BUDGET
HUCK'S #131 – MAIER'S GROCERY
CROSSVILLE, ILLINOIS**



Illinois Environmental Protection Agency

1021 North Grand Avenue East • P.O. Box 19276 • Springfield • Illinois • 62794-9276 • (217) 782-3397

The Agency is authorized to require this information under Section 4 and Title XVI of the Environmental Protection Act (415 ILCS 5/4, 5/57 - 57.19). Failure to disclose this information may result in a civil penalty of not to exceed \$50,000.00 for the violation and an additional civil penalty of not to exceed \$10,000.00 for each day during which the violation continues (415 ILCS 5/42). Any person who knowingly makes a false, fictitious, or fraudulent material statement or representation, orally or in writing, to the Agency, or to a unit of local government to which the Agency has delegated authority under subsection (r) of Section 4 of this Act, related to or required by this Act, a regulation adopted under this Act, any federal law or regulation for which the Agency has responsibility, or any permit, term, or condition thereof, commits a Class 4 felony, and each such statement or writing shall be considered a separate Class 4 felony. A person who, after being convicted under paragraph 415 ILCS 5/44 (h)(8), violates paragraph 415 ILCS 5/44 (h)(8) a second or subsequent time, commits a Class 3 felony. (415 ILCS 5/44). This form has been approved by the Forms Management Center.

Leaking Underground Storage Tank Program Corrective Action Plan

A. Site Identification

IEMA Incident # (6- or 8-digit): 20091397

IEPA LPC# (10-digit): 1930155021

Site Name: Huck's #131 - Maier's Grocery

Site Address (Not a P.O. Box): 109 South State Street

City: Crossville County: White ZIP Code: 62821

B. Site Information

1. Will the owner or operator seek reimbursement from the Underground Storage Tank Fund? Yes No
2. If yes, is the budget attached? Yes No
3. Is this an amended plan? Yes No
4. Identify the material(s) released: Gasoline
5. This Corrective Action Plan is submitted pursuant to:
 - a. 35 Ill. Adm. Code 731.166
 - b. 35 Ill. Adm. Code 732.404
 - c. 35 Ill. Adm. Code 734.335

C. Proposed Methods of Remediation

1. Soil TACO Tier 2 Residential Site Restriction / TBD
2. Groundwater TBD

D. Soil and Groundwater Investigation Results

(for incidents subject to 35 Ill. Adm. Code 731 only or 732 that were classified using Method One or Two, if not previously provided)

Provide the following:

1. Description of investigation activities performed to define the extents of soil and/or groundwater contamination;
2. Analytical results, chain-of-custody forms, and laboratory certifications;
3. Tables comparing analytical results to applicable remediation objectives;

4. Boring logs;
5. Monitoring well logs; and
6. Site maps meeting the requirements of 35 Ill. Adm. Code 732.110(a) or 734.440 and showing:
 - a. Soil sample locations;
 - b. Monitoring well locations; and
 - c. Plumes of soil and groundwater contamination.

E. Technical Information - Corrective Action Plan

Provide the following:

1. Executive summary identifying the objectives of the corrective action plan and the technical approach to be utilized to meet such objectives;
 - a. The major components (e.g., treatment, containment, removal) of the corrective action plan;
 - b. The scope of the problems to be addressed by the proposed corrective action; and
 - c. A schedule for implementation and completion of the plan;
2. Identification of the remediation objectives proposed for the site;
3. A description of the remedial technologies selected:
 - a. The feasibility of implementing the remedial technologies;
 - b. Whether the remedial technologies will perform satisfactorily and reliably until the remediation objectives are achieved; and
 - c. A schedule of when the technologies are expected to achieve the applicable remediation objectives;
4. A confirmation sampling plan that describes how the effectiveness of the corrective action activities will be monitored during their implementation and after their completion;
5. A description of the current and projected future uses of the site;
6. A description of engineered barriers or institutional controls that will be relied upon to achieve remediation objectives:
 - a. an assessment of their long-term reliability;
 - b. operating and maintenance plans;
 - c. maps showing area covered by barriers and institutional controls;
 - d. copies of the complete application(s) for planned Highway Authority Agreement(s); and
 - e. draft groundwater ordinance(s) and Environmental Land Use Controls.
7. The water supply well survey:
 - a. Map(s) showing locations of community water supply wells and other potable wells and the setback zone for each well;
 - b. Map(s) showing regulated recharge areas and wellhead protection areas;
 - c. Map(s) showing the current extent of groundwater contamination exceeding the most stringent Tier 1 remediation objectives;
 - d. Map(s) showing the modeled extent of groundwater contamination exceeding the most stringent Tier 1 remediation objectives;
 - e. Tables listing the setback zone for each community water supply well and other potable water supply wells;
 - f. A narrative identifying each entity contacted to identify potable water supply wells, the name and title of each person contacted, and any field observations associated with any wells identified; and
 - g. A certification from a Licensed Professional Engineer or Licensed Professional Geologist that the survey was conducted in accordance with the requirements and that documentation submitted includes information obtained as a result of the survey (certification of this plan satisfies this requirement);

8. Appendices:

- a. References and data sources report that are organized; and
- b. Field logs, well logs, and reports of laboratory analyses;

9. Site map(s) meeting the requirements of 35 Ill. Adm. Code 732.110(a) or 734.440;

10. Engineering design specifications, diagrams, schematics, calculations, manufacturer's specifications, etc.;

11. A description of bench/pilot studies;

12. Cost comparison between proposed method of remediation and other methods of remediation;

13. For the proposed Tier 2 or 3 remediation objectives, provide the following:

- a. The equations used;
- b. A discussion of how input variables were determined;
- c. Map(s) depicting distances used in equations; and
- d. Calculations; and

14. Provide documentation to demonstrate the following for alternative technologies:

- a. The proposed alternative technology has a substantial likelihood of successfully achieving compliance with all applicable regulations and remediation objectives;
- b. The proposed alternative technology will not adversely affect human health and safety or the environment;
- c. The owner or operator will obtain all Illinois EPA permits necessary to legally authorize use of the alternative technology;
- d. The owner or operator will implement a program to monitor whether the requirements of subsection (14)(a) have been met;
- e. Within one year from the date of Illinois EPA approval, the owner or operator will provide to the Illinois EPA monitoring program results establishing whether the proposed alternative technology will successfully achieve compliance with the requirements of subsection (14)(a); and
- f. Demonstration that the cost of alternative technology will not exceed the cost of conventional technology and is not substantially higher than at least two other alternative technologies, if available and technically feasible.

F. Exposure Pathway Exclusion

Provide the following:

1. A description of the tests to be performed in determining whether the following requirements will be met:

- a. Attenuation capacity of the soil will not be exceeded for any of the organic contaminants;
- b. Soil saturation limit will not be exceeded for any of the organic contaminants;
- c. Contaminated soils do not exhibit any of the reactivity characteristics of hazardous waste per 35 Ill. Adm. Code 721.123;
- d. Contaminated soils do not exhibit a pH ≤ 2.0 or ≥ 12.5 ; and
- e. Contaminated soils which contain arsenic, barium, cadmium, chromium, lead, mercury, or selenium (or their associated salts) do not exhibit any of the toxicity characteristics of hazardous waste per 35 Ill. Adm. Code 721.124.

2. A discussion of how any exposure pathways are to be excluded.

G. Signatures

All plans, budgets, and reports must be signed by the owner or operator and list the owner's or operator's full name, address, and telephone number.

UST Owner or Operator

Name Martin & Bayley, Inc.
Contact Landon Bayley
Address 1311A West Main Street
City Carmi
State Illinois
Zip Code 62821
Phone 618-382-2334
Email _____
Signature [Signature]
Date 7/1/25

Consultant

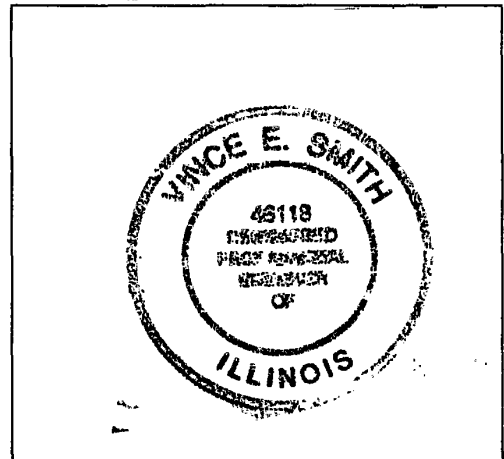
Company CWM Company, Inc.
Contact Carol Rowe, P.G.
Address 701 West South Grand Avenue
City Springfield
State Illinois
Zip Code 62704
Phone 217-522-8001
Email cwm@cwmcompany.com
Signature [Signature]
Date July 8, 2025

I certify under penalty of law that all activities that are the subject of this plan were conducted under my supervision or were conducted under the supervision of another Licensed Professional Engineer or Licensed Professional Geologist and reviewed by me; that this plan and all attachments were prepared under my supervision; that, to the best of my knowledge and belief, the work described in this plan has been completed in accordance with the Environmental Protection Act [415 ILCS 5], 35 Ill. Adm. Code 731, 732 or 734, and generally accepted standards and practices of my profession; and that the information presented is accurate and complete. I am aware there are significant penalties for submitting false statements or representations to the Illinois EPA, including but not limited to fines, imprisonment, or both as provided in Sections 44 and 57.17 of the Environmental Protection Act [415 ILCS 5/44 and 57.17].

Licensed Professional Engineer or Geologist

Name Vince E. Smith
Company CWM Company, Inc.
Address 701 West South Grand Avenue
City Springfield
State Illinois
Zip Code 62704
Phone 217-522-8001
Ill. Registration No. 062-046118
License Expiration Date 11/30/25
Signature [Signature]
Date 6/20/25

L.P.E. or L.P.G. Seal



CW³M Company, Inc.
Corrective Action Plan and Budget
Huck's #131 / Maier's Grocery
LPC #1930155021—Incident Number 2009-1397

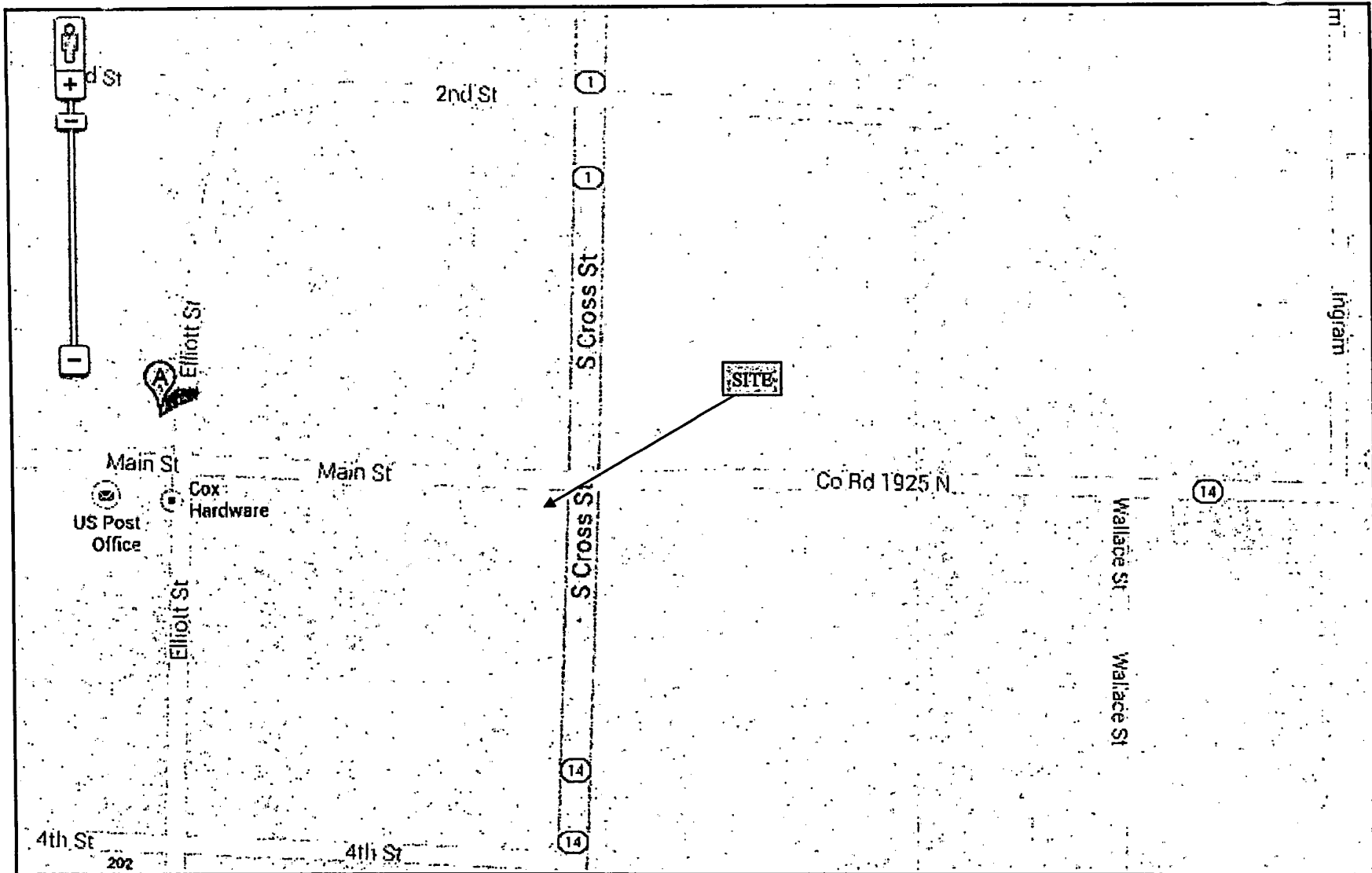
APPENDIX B

SITE MAPS AND ILLUSTRATIONS

CORRECTIVE ACTION PLAN AND BUDGET
HUCK'S #131 – MAIER'S GROCERY
CROSSVILLE, ILLINOIS

INDEX OF DRAWINGS

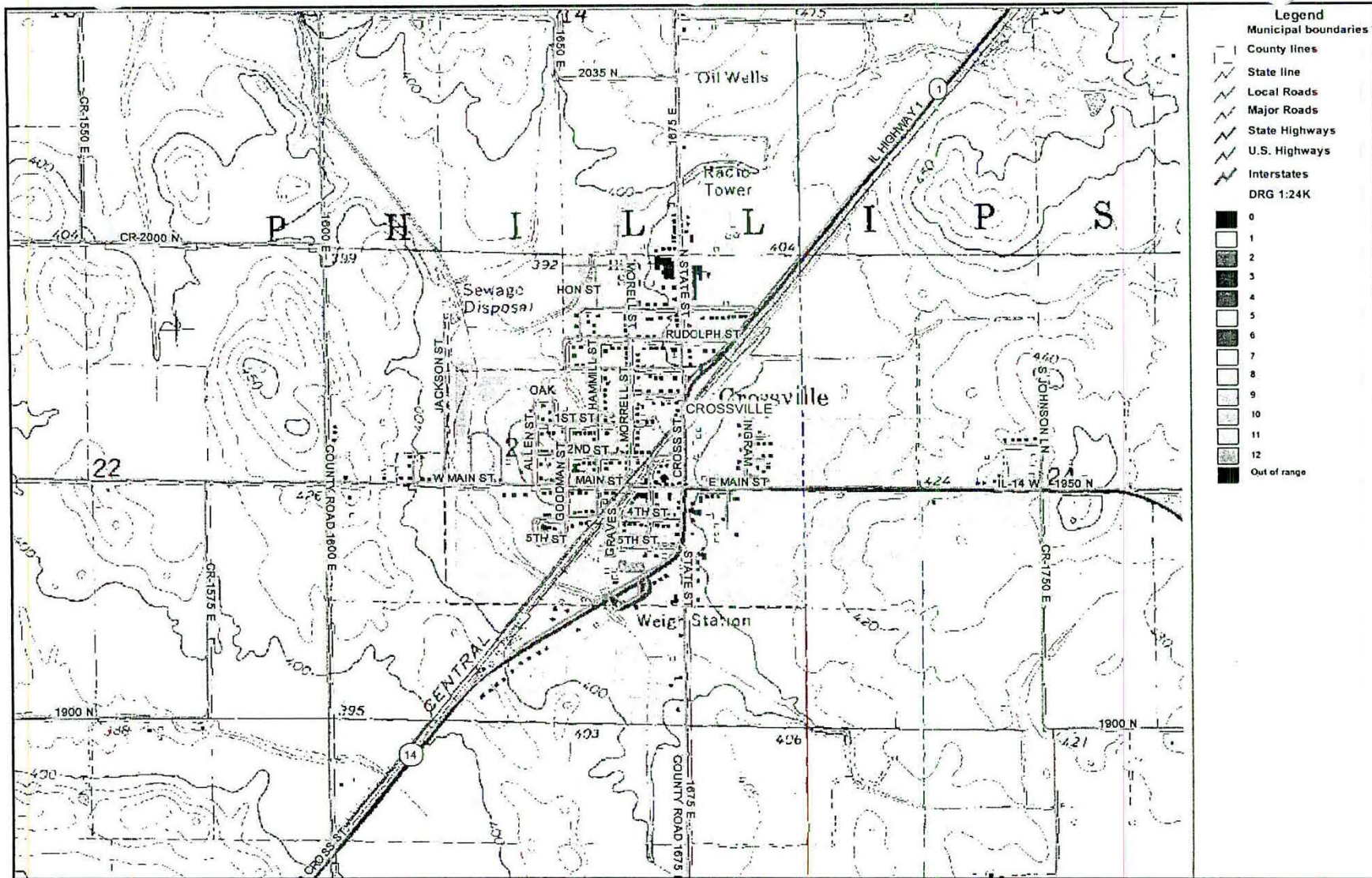
Drawing Number	Description	File Name
0001A	Site Location Map	SiteMap.doc
0001B	Topographic Map	topomap.doc
0001C	Surrounding Populations Map	Surround.dwg
0002	Site Map	Site.dwg
0003	Early Action Excavation Map	EAexc.dwg
0004	Early Action Sample Map	EAsamp.dwg
0005	Soil Boring Location Map	SBloc.dwg
0006	Monitoring Well Location Map	MWloc.dwg
0007A	Soil Contamination Plume Map	SoilPlume.dwg
0007B	Groundwater Contamination Plume Map	GWPlume.dwg
0008A	Monitoring Well Elevation Map	MWelev.dwg
0008B	Groundwater Elevation Map (June 2012)	GWelev.dwg
0009	TACO Parameters Map	TACO.dwg
0010	R-26 Modeling of Contamination Migration Map	R-26.dwg
0011	Proposed Sampling Location Map	PSS.dwg



CW³M Company, Inc.
 701 South Grand Avenue West
 Springfield, IL 62704
 (217)-522-8001

Site Location Map
 109 South State Street
 Crossville, Illinois

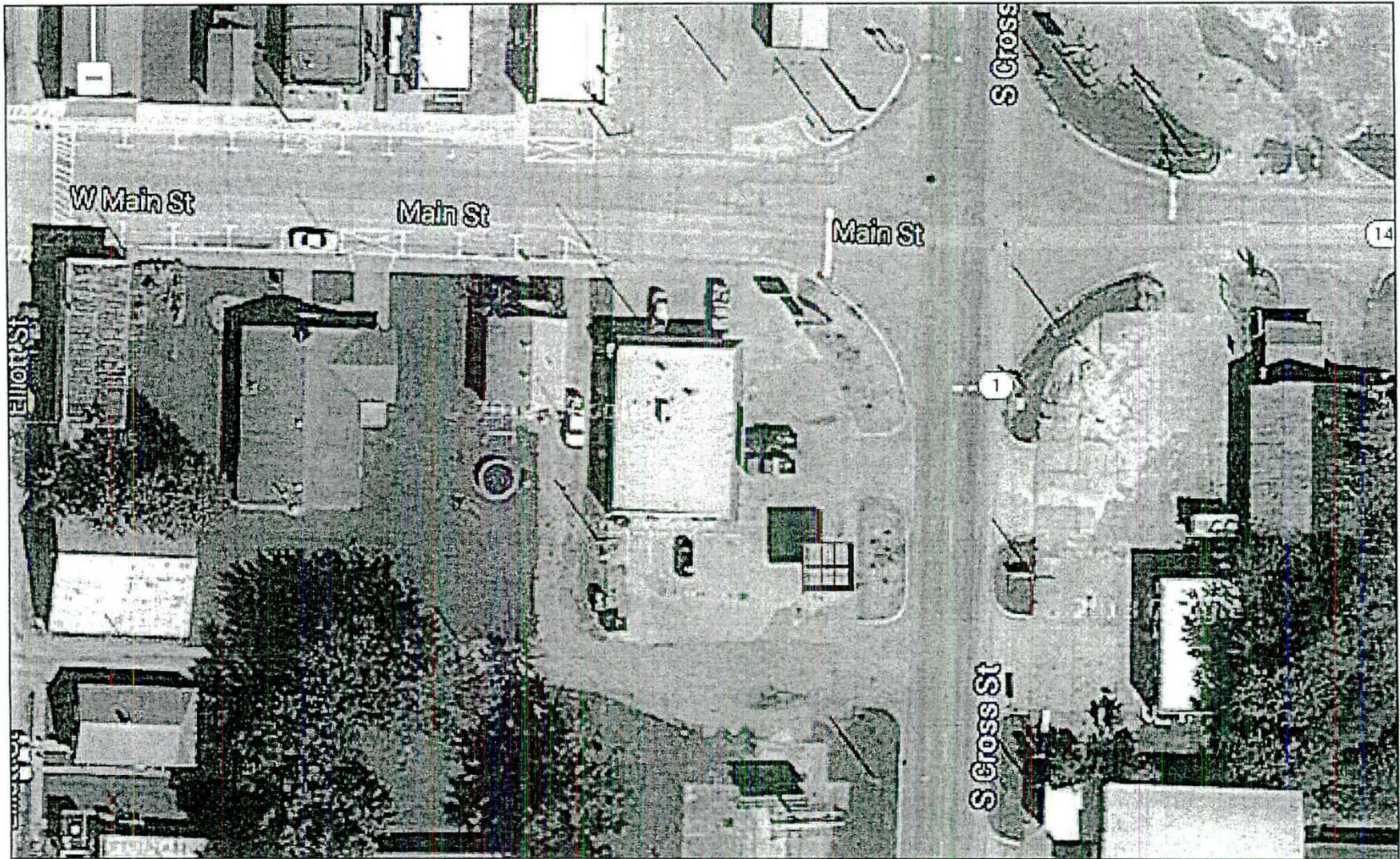
Drawn By: BMW
 Reviewed By: CLR
 Drawing 0001A
 SiteMap.doc



CW³M Company, Inc.
 701 South Grand Avenue West
 Springfield, IL 62704
 (217)-522-8001

Topographic Map
 109 South State Street
 Crossville, Illinois

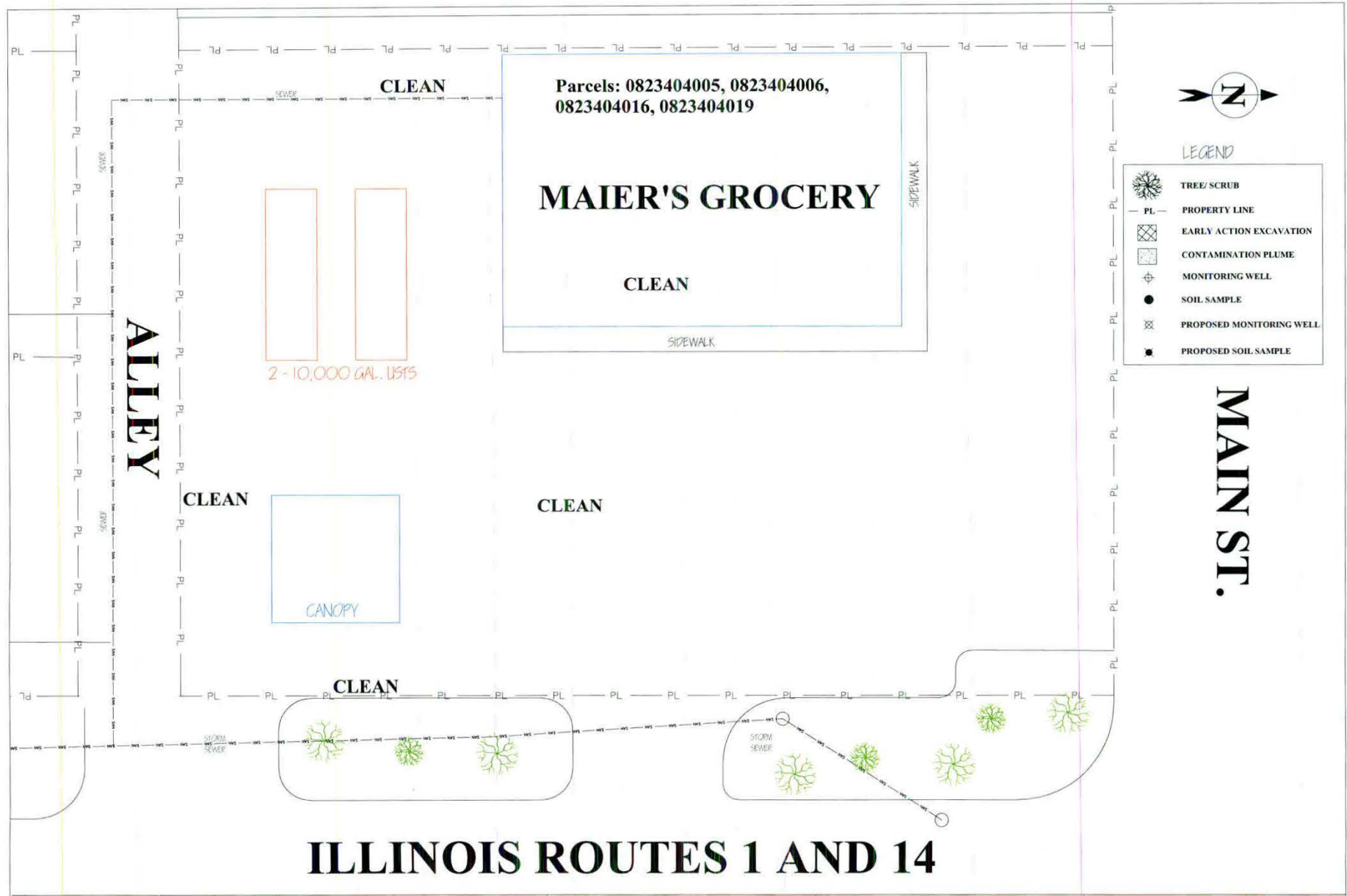
Drawn By: BMW
 Reviewed By: CLR
 Drawing 0001B
 TopoMap.doc



CW³M Company, Inc.
701 South Grand Avenue West
Springfield, IL 62704
(217)-522-8001

Surrounding Populations Map
109 South State Street
Crossville, Illinois

Drawn By: BMW
Reviewed By: CLR
Drawing 0001C
Surround.doc



Parcels: 0823404005, 0823404006,
0823404016, 0823404019

MAIER'S GROCERY

CLEAN

2 - 10,000 GAL. UST'S

CANOPY

ALLEY

MAIN ST.

ILLINOIS ROUTES 1 AND 14

CWM COMPANY, INC.
701 W. SOUTH GRAND
SPRINGFIELD, IL. 62704
(217) 522-8001

HUCK'S #131 / MAIERS
GROCERY
CROSSVILLE, ILLINOIS
INCIDENT #09-1397
WHITE COUNTY

SITE MAP

DATE: 7/16/13
REVISED DATE:
SCALE 1"=20'
DRAWING: 0002

DRAWN BY: BMW
REVISED BY:
REVIEWED BY: CLR
SITE.DWG

000822

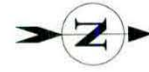
Parcels: 0823404005, 0823404006,
0823404016, 0823404019

MAIER'S GROCERY









ALLEY

MAIN ST.

ILLINOIS ROUTES 1 AND 14



LEGEND

-  TREE/ SCRUB
-  PROPERTY LINE
-  EARLY ACTION EXCAVATION
-  CONTAMINATION PLUME
-  MONITORING WELL
-  SOIL SAMPLE
-  PROPOSED MONITORING WELL
-  PROPOSED SOIL SAMPLE

CANOPY

000823

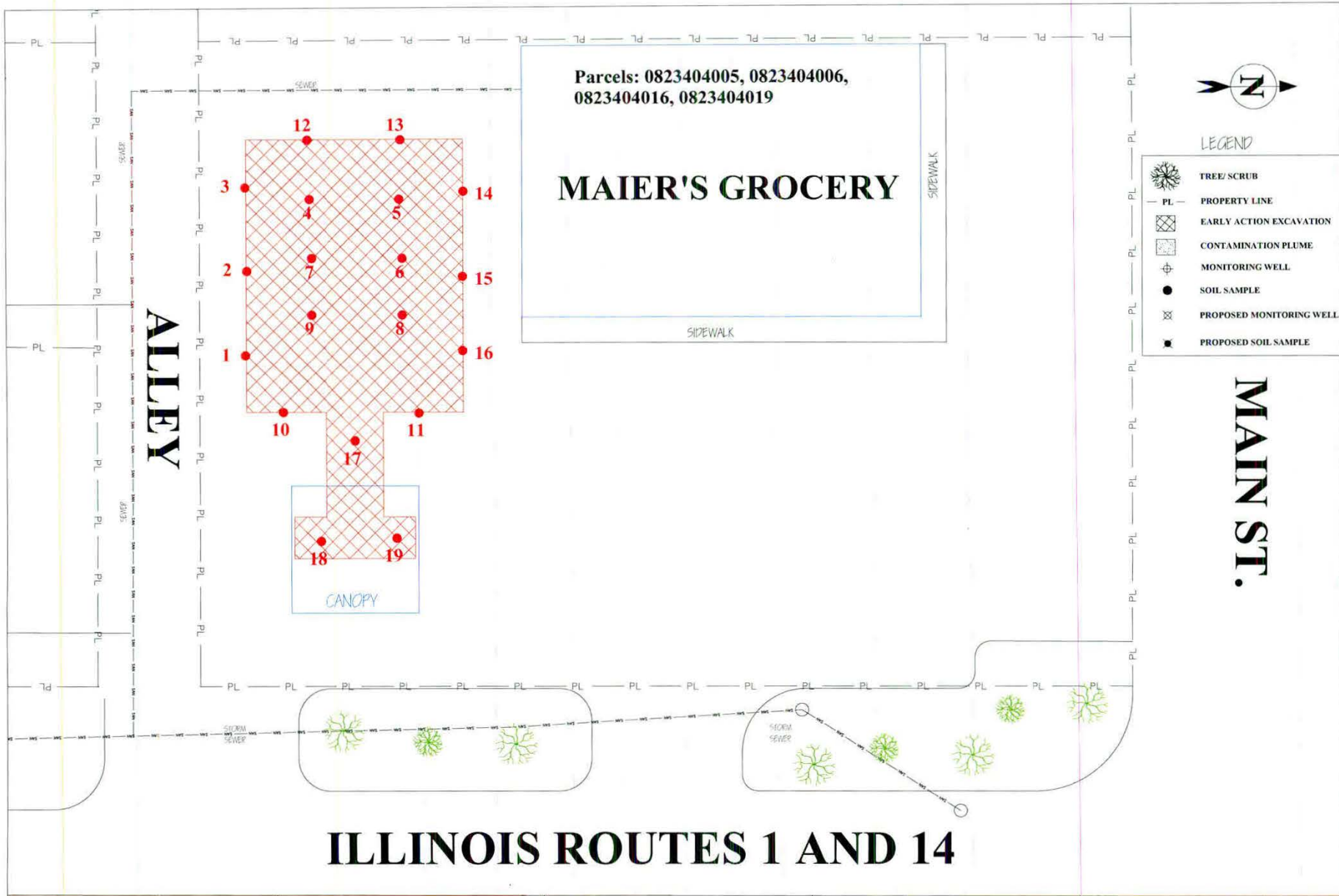
CWM COMPANY, INC.
701 W. SOUTH GRAND
SPRINGFIELD, IL. 62704
(217) 522-8001

HUCK'S #131 / MAIERS
GROCERY
CROSSVILLE, ILLINOIS
INCIDENT #09-1397
WHITE COUNTY

EARLY ACTION
EXCAVATION MAP

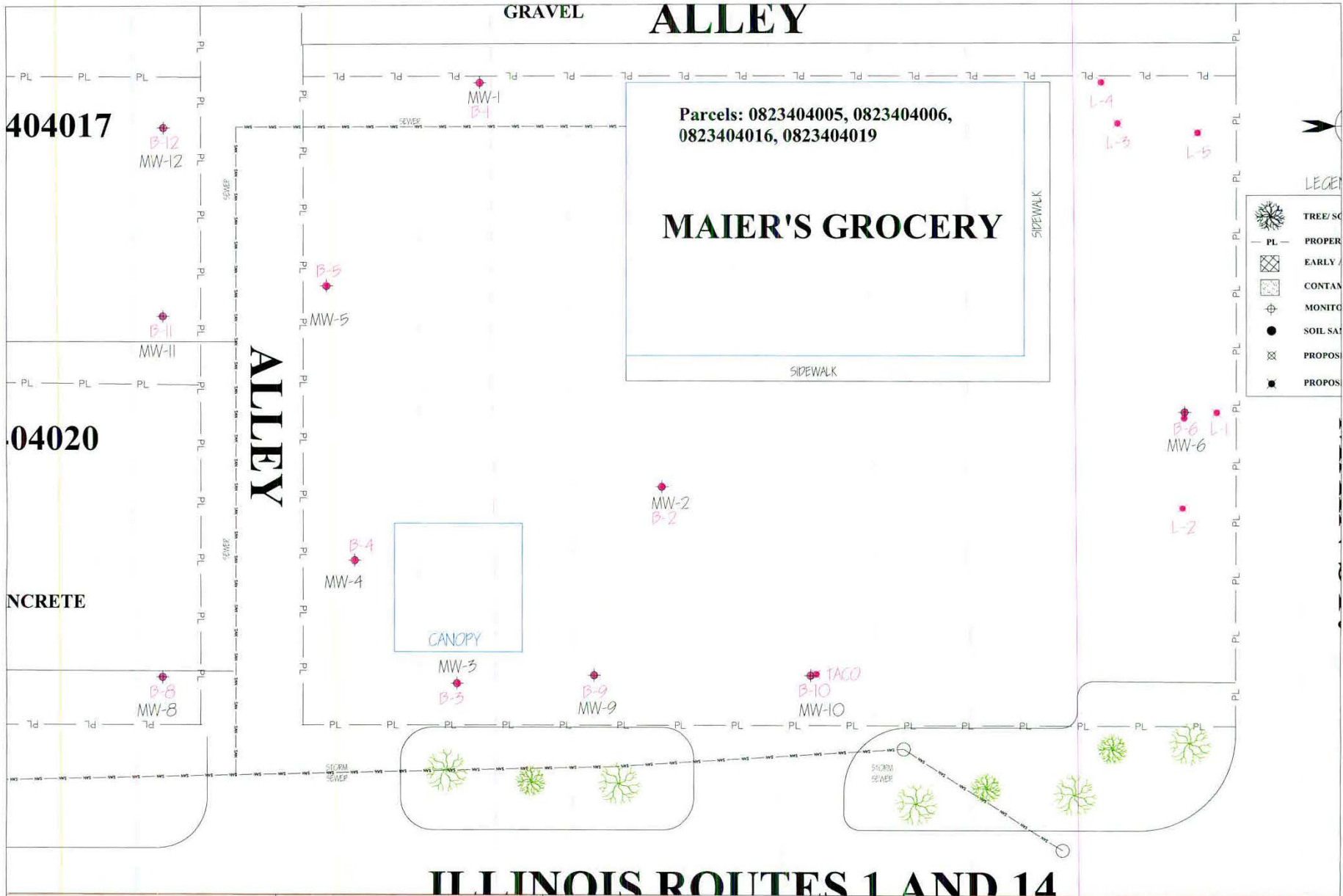
DATE: 7/16/13
REVISED DATE:
SCALE 1"=20'
DRAWING: 0003

DRAWN BY: BMW
REVISED BY:
REVIEWED BY: CLR
EAEXC.DWG



<p>CWM COMPANY, INC. 701 W. SOUTH GRAND SPRINGFIELD, IL. 62704 (217) 522-8001</p>	<p>HUCK'S #131 / MAIERS GROCERY CROSSVILLE, ILLINOIS INCIDENT #09-1397 WHITE COUNTY</p>	<p style="text-align: center;">EARLY ACTION SAMPLE MAP</p>	<p style="text-align: center;">DATE: 7/16/13 REVISED DATE: SCALE 1"=20' DRAWING: 0004</p>	<p style="text-align: center;">DRAWN BY: BMW REVISED BY: REVIEWED BY: CLR EASAMP.DWG</p>
--	--	---	--	---

000824



404017

04020

Parcels: 0823404005, 0823404006,
0823404016, 0823404019

MAIER'S GROCERY

ILLINOIS ROUTES 1 AND 14

CWM COMPANY, INC.
701 W. SOUTH GRAND
SPRINGFIELD, IL. 62704
(217) 522-8001

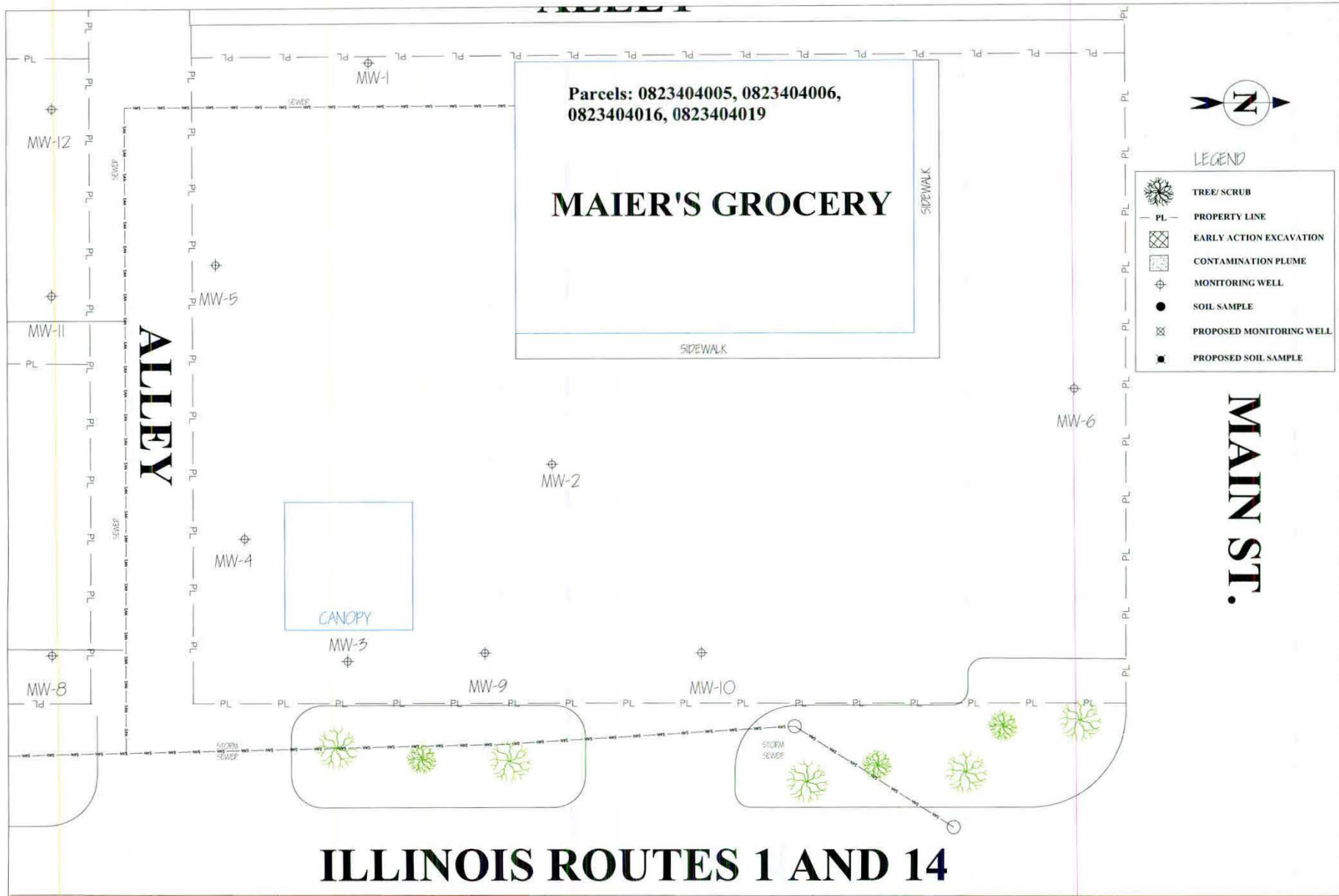
HUCK'S #131 / MAIERS
GROCERY
CROSSVILLE, ILLINOIS
INCIDENT #09-1397
WHITE COUNTY

SOIL BORING LOCATION
MAP

DATE: 7/16/13
REVISED DATE:
SCALE 1"=20'
DRAWING: 0005

DRAWN BY: BMW
REVISED BY: MDR
REVIEWED BY: CLR
SBLOC.DWG

000825



CWM COMPANY, INC.
 701 W. SOUTH GRAND
 SPRINGFIELD, IL. 62704
 (217) 522-8001

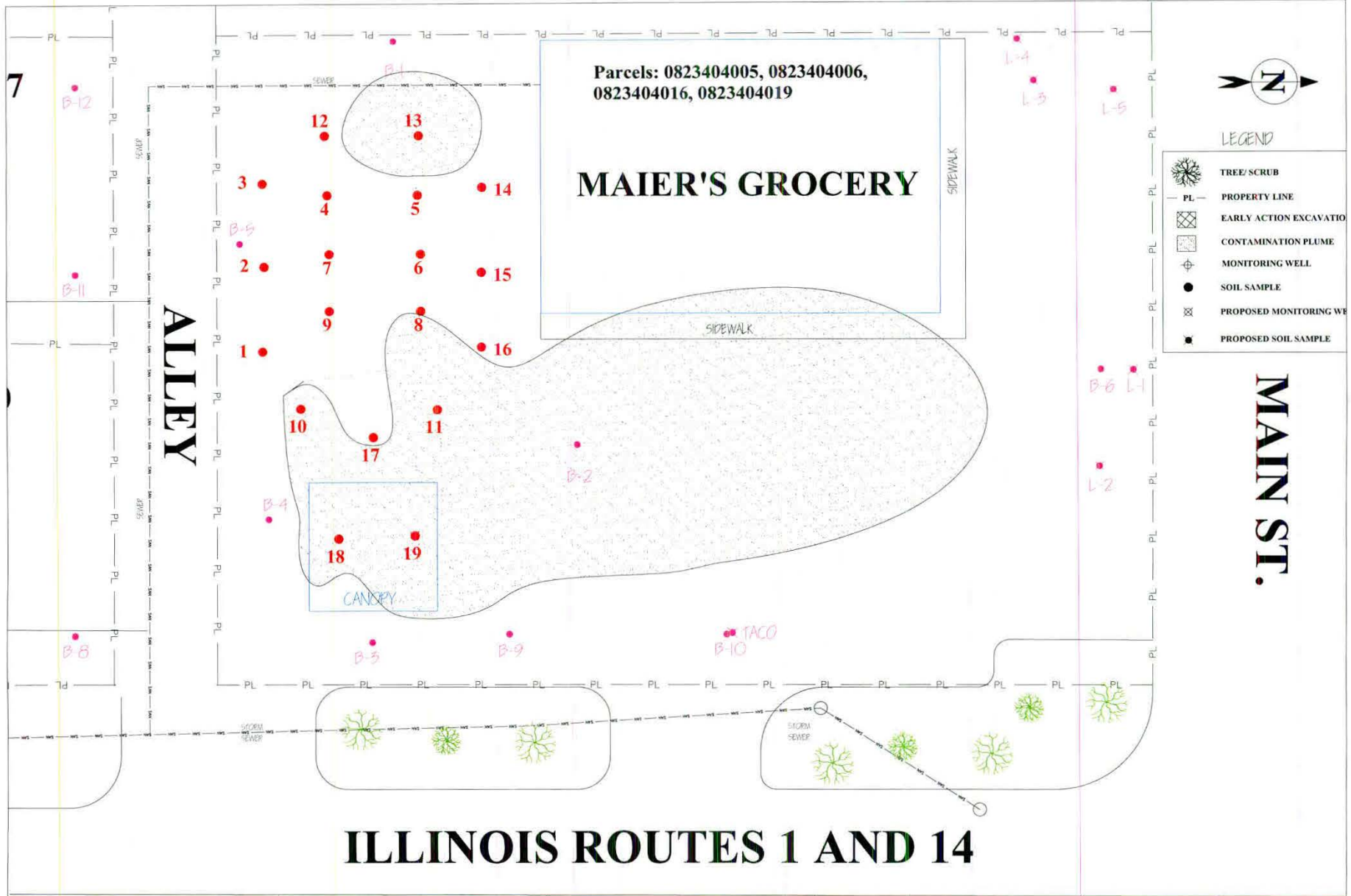
HUCK'S #131 / MAIERS
 GROCERY
 CROSSVILLE, ILLINOIS
 INCIDENT #09-1397
 WHITE COUNTY

MONITORING WELL
 LOCATION MAP

DATE: 7/16/13
 REVISED DATE:
 SCALE 1"=20'
 DRAWING: 0006

DRAWN BY: BMW
 REVISED BY: MDR
 REVIEWED BY: CLR
 MWLOC.DWG

000826



CWM COMPANY, INC.
 701 W. SOUTH GRAND
 SPRINGFIELD, IL. 62704
 (217) 522-8001

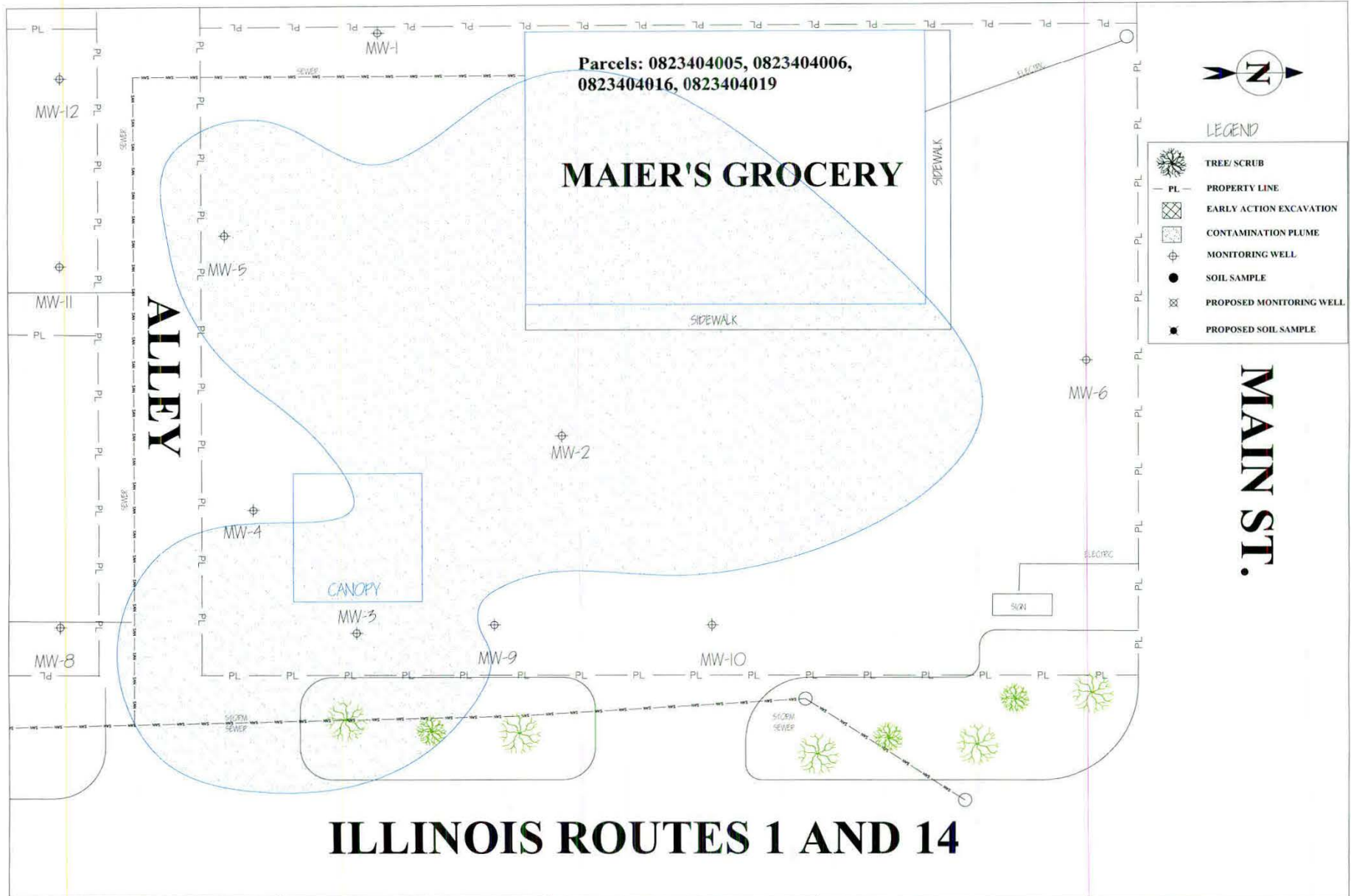
HUCK'S #131 / MAIERS
 GROCERY
 CROSSVILLE, ILLINOIS
 INCIDENT #09-1397
 WHITE COUNTY

SOIL CONTAMINATION
 PLUME MAP

DATE: 7/16/13
 REVISED DATE: 12/18/13
 SCALE 1"=20'
 DRAWING: 0007A

DRAWN BY: BMW
 REVISED BY: MDR
 REVIEWED BY: CLR
 SOILPLUME.DWG

000827



CWM COMPANY, INC.
701 W. SOUTH GRAND
SPRINGFIELD, IL. 62704
(217) 522-8001

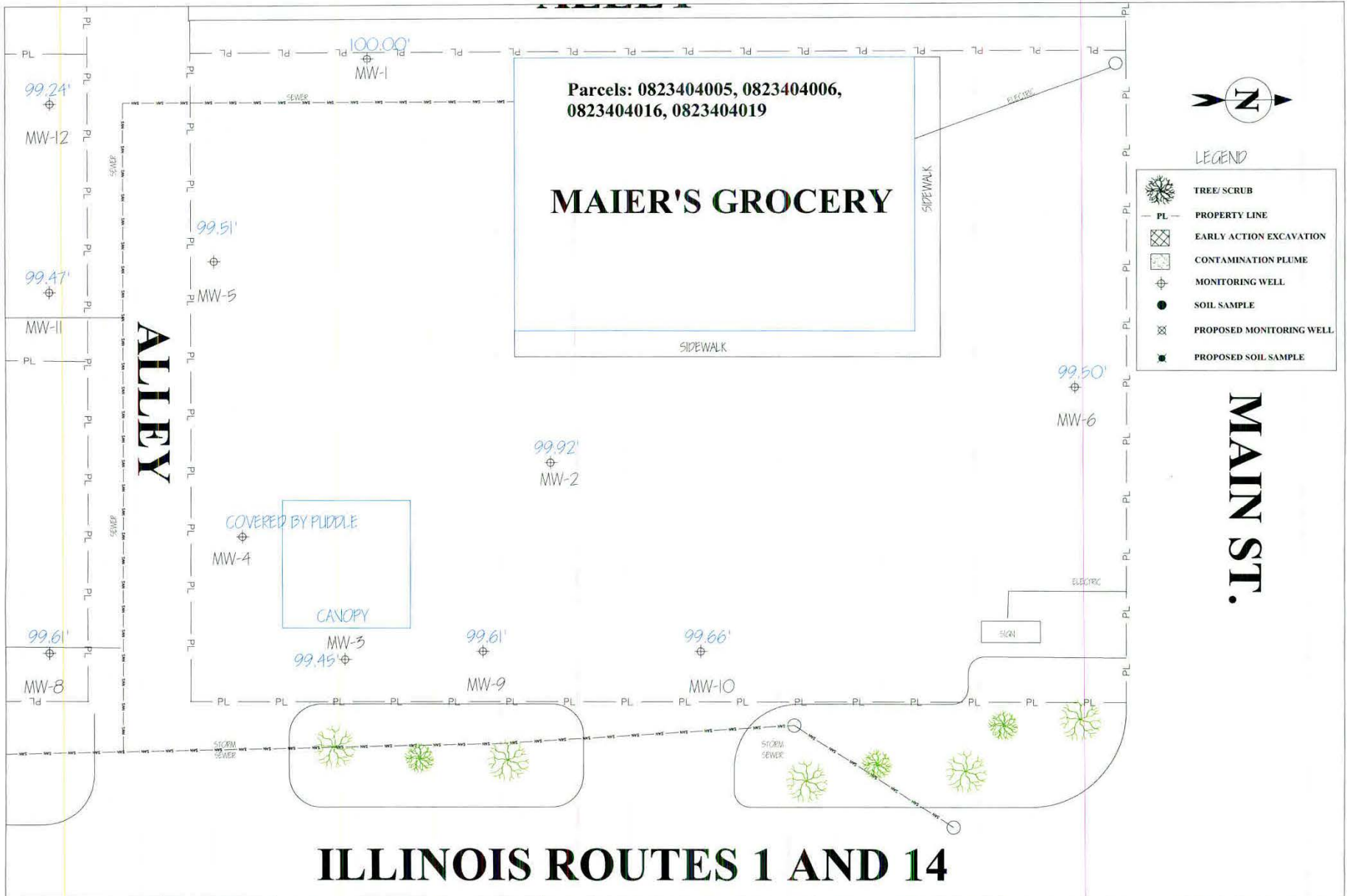
**HUCK'S #131 / MAIERS
GROCERY**
CROSSVILLE, ILLINOIS
INCIDENT #09-1397
WHITE COUNTY

**GROUNDWATER
CONTAMINATION
PLUME MAP**

DATE: 7/16/13
REVISED DATE:
SCALE 1"=20'
DRAWING: 0007B

DRAWN BY: BMW
REVISED BY: MDR
REVIEWED BY: CLR
GWPLUME.DWG

000828



LEGEND

- TREE/ SCRUB
- PROPERTY LINE
- EARLY ACTION EXCAVATION
- CONTAMINATION PLUME
- MONITORING WELL
- SOIL SAMPLE
- PROPOSED MONITORING WELL
- PROPOSED SOIL SAMPLE

Parcels: 0823404005, 0823404006,
0823404016, 0823404019

MAIER'S GROCERY

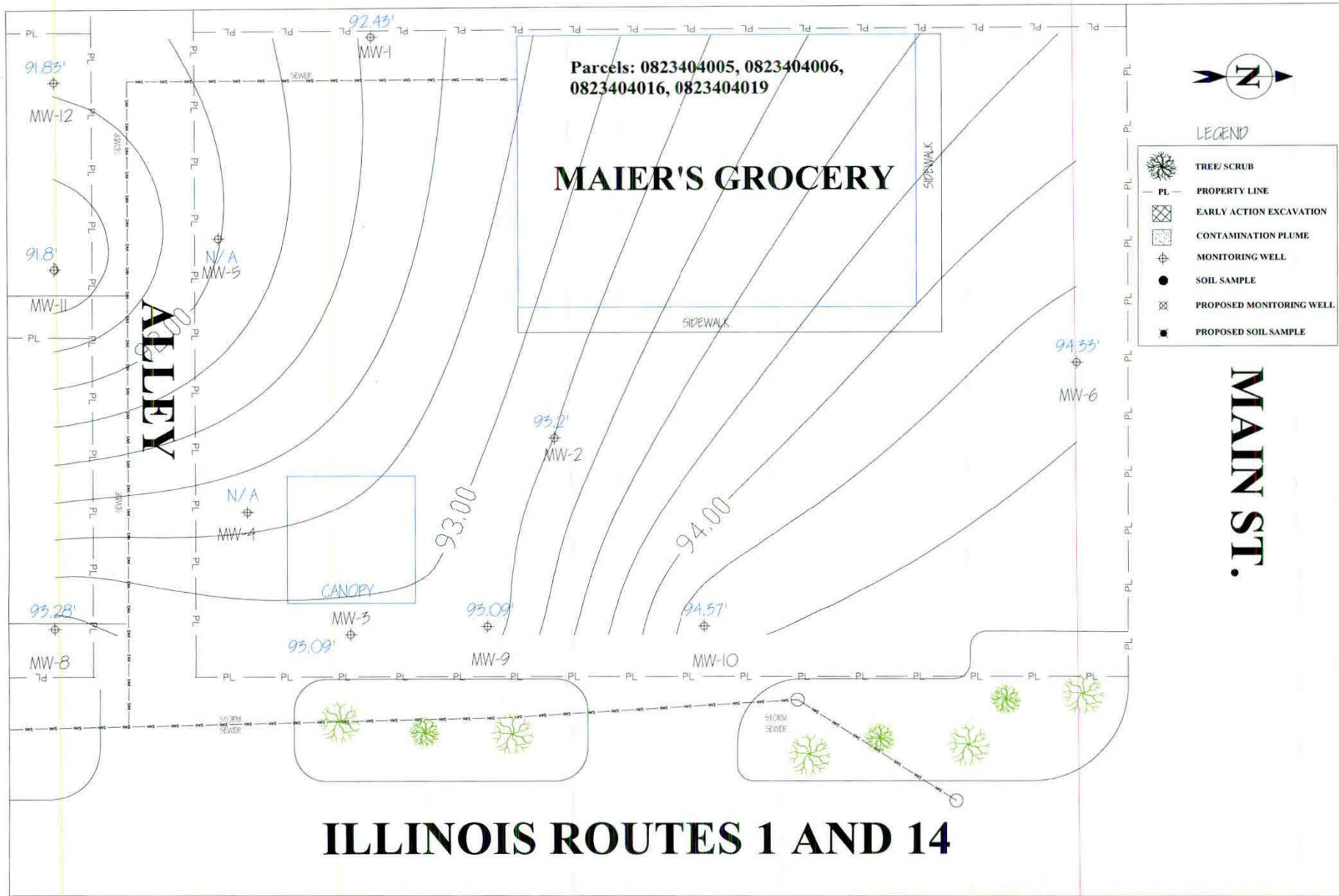
ALLEY

MAIN ST.

ILLINOIS ROUTES 1 AND 14

<p>CWM COMPANY, INC. 701 W. SOUTH GRAND SPRINGFIELD, IL. 62704 (217) 522-8001</p>	<p>HUCK'S #131 / MAIERS GROCERY CROSSVILLE, ILLINOIS INCIDENT #09-1397 WHITE COUNTY</p>	<p>MONITORING WELL ELEVATION MAP</p>	<p>DATE: 6/20/13 REVISED DATE: SCALE 1"=20' DRAWING: 0008A</p>	<p>DRAWN BY: BMW REVISED BY: REVIEWED BY: CLR MWelev.dwg</p>
---	---	--	--	--

000829



CWM COMPANY, INC.
701 W. SOUTH GRAND
SPRINGFIELD, IL. 62704
(217) 522-8001

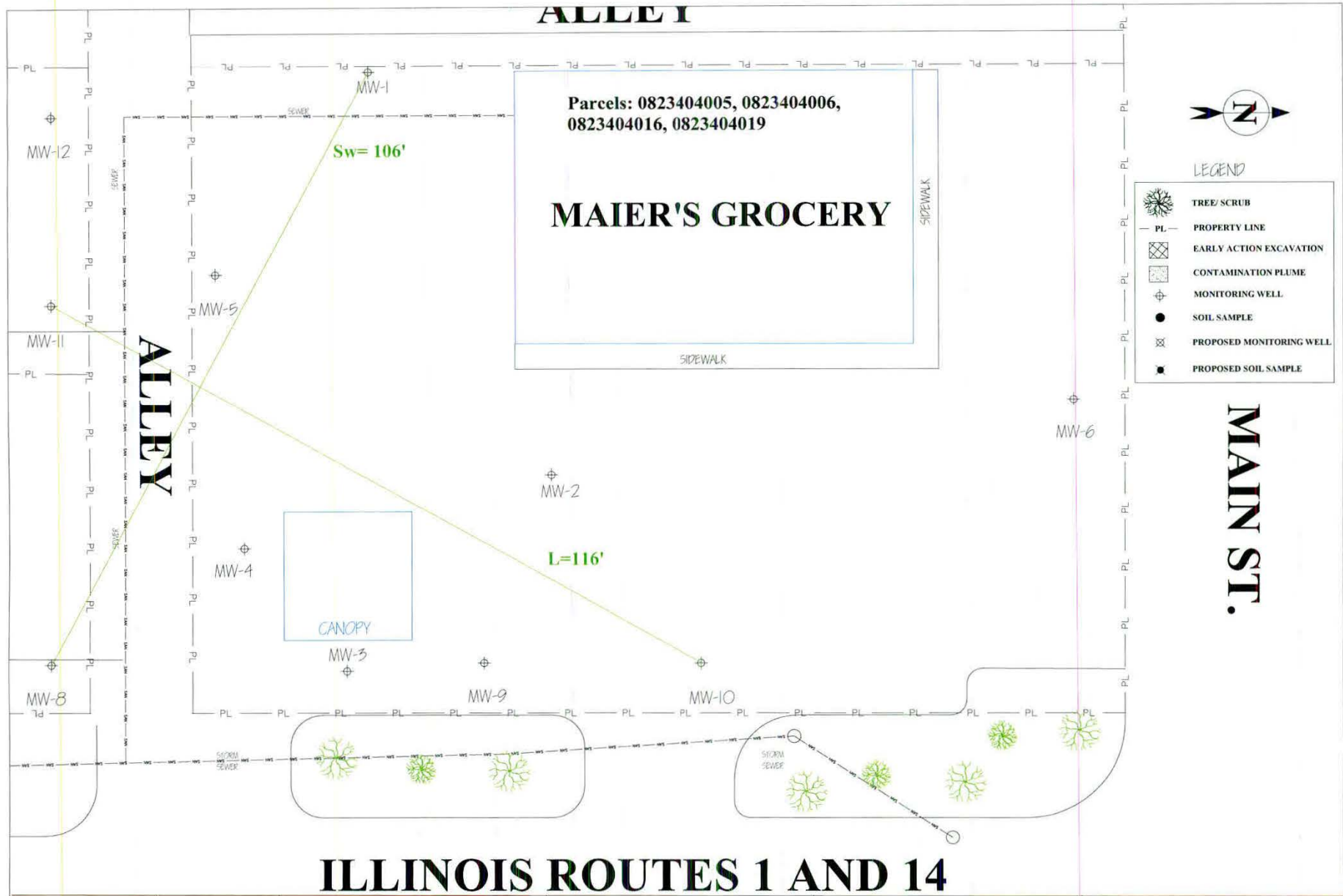
**HUCK'S #131 / MAIERS
GROCERY
CROSSVILLE, ILLINOIS
INCIDENT #09-1397
WHITE COUNTY**

**GROUDWATER
ELEVATION MAP
(JUNE 2012)**









**DATE: 7/16/13
REVISED DATE:
SCALE 1"=20'
DRAWING: 0008B**

**DRAWN BY: BMW
REVISED BY: MDR
REVIEWED BY: CLR
GWELEV.DWG**

000830

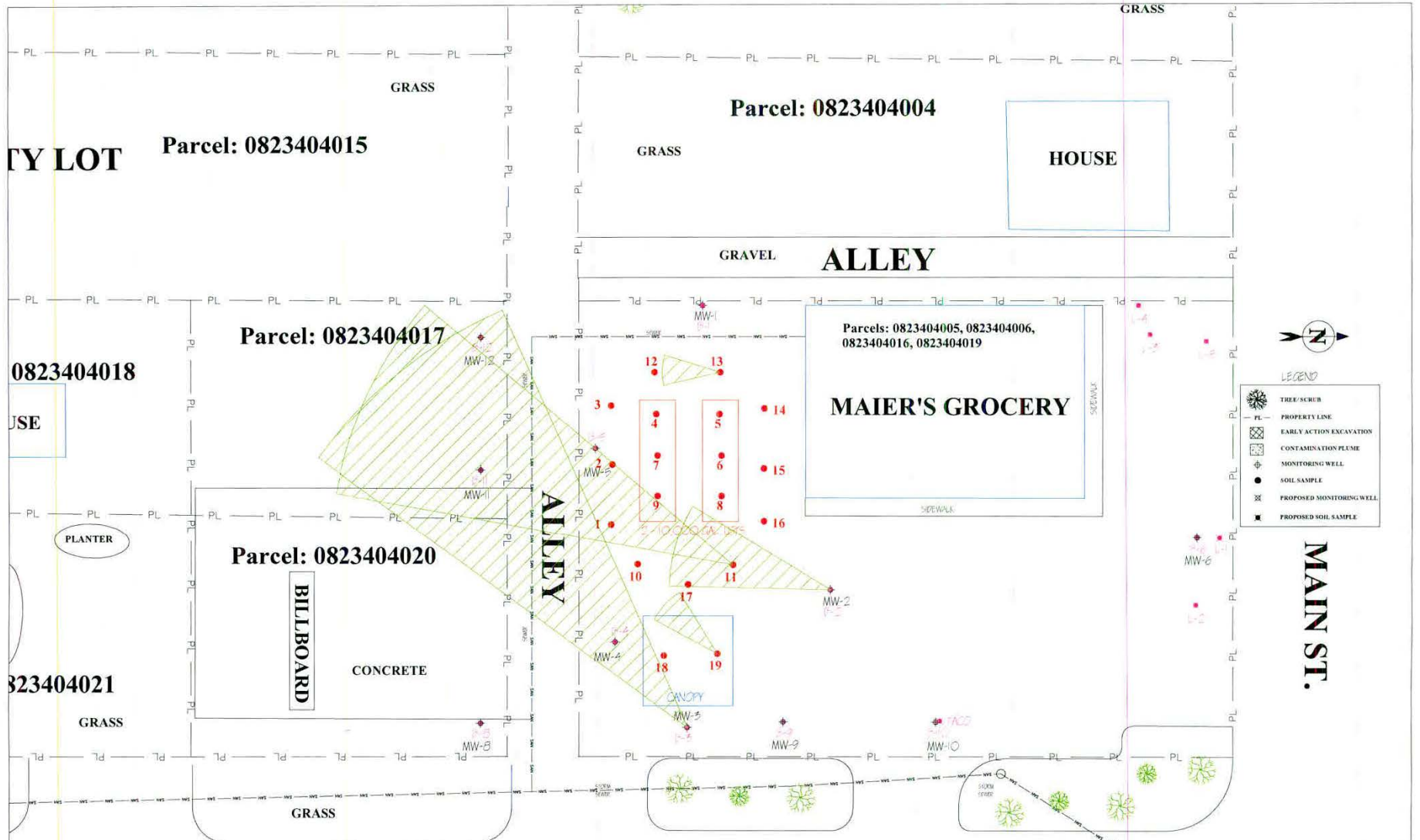


LEGEND

-  TREE/ SCRUB
-  PL PROPERTY LINE
-  EARLY ACTION EXCAVATION
-  CONTAMINATION PLUME
-  MONITORING WELL
-  SOIL SAMPLE
-  PROPOSED MONITORING WELL
-  PROPOSED SOIL SAMPLE

000831

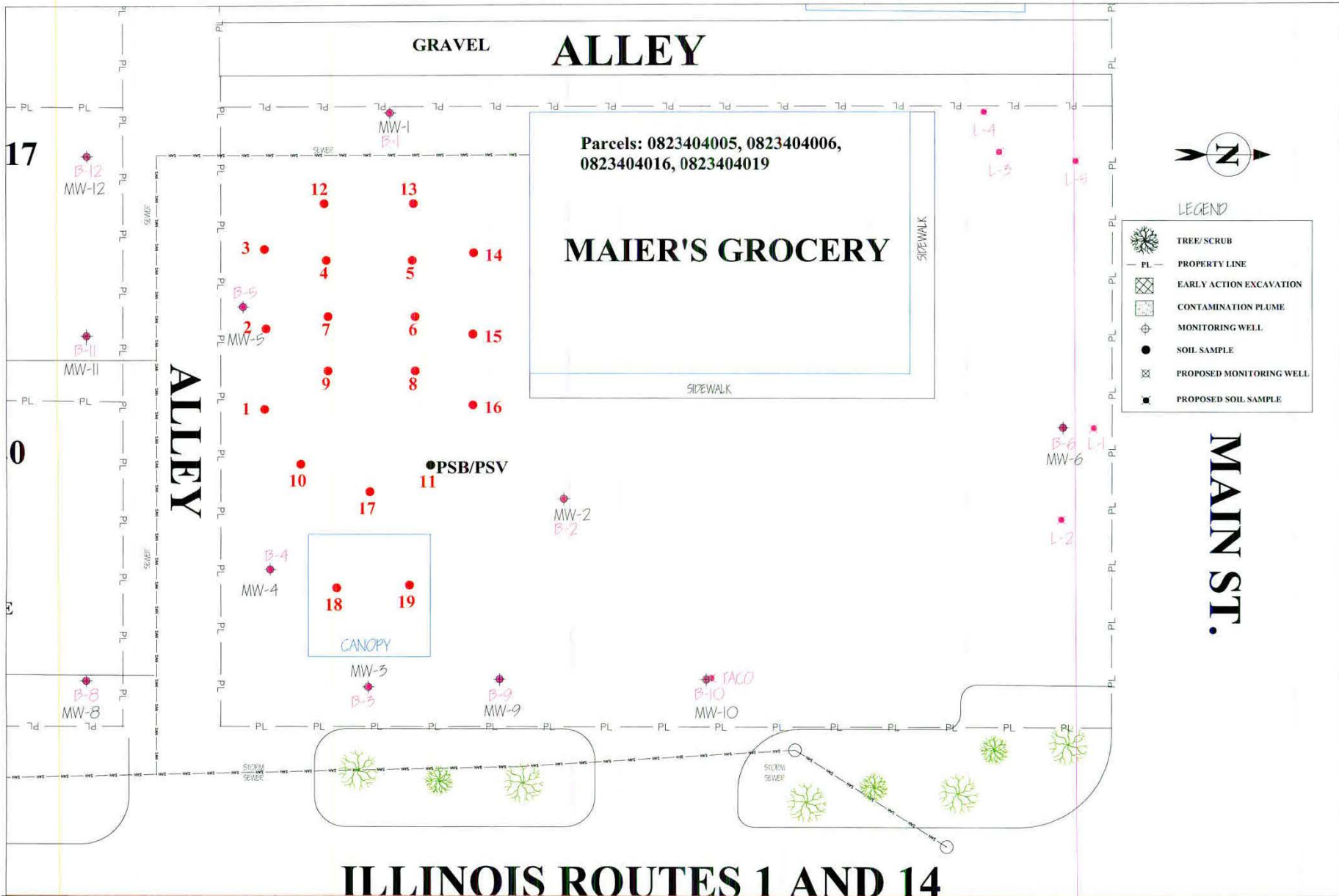
<p>CWM COMPANY, INC. 701 W. SOUTH GRAND SPRINGFIELD, IL. 62704 (217) 522-8001</p>	<p>HUCK'S #131 / MAIERS GROCERY CROSSVILLE, ILLINOIS INCIDENT #09-1397 WHITE COUNTY</p>	<p>TACO PARAMETERS MAP</p>	<p>DATE: 7/16/13 REVISED DATE: 7/21/14 SCALE 1"=20' DRAWING: 0009</p>	<p>DRAWN BY: BMW REVISED BY: BMW REVIEWED BY: CLR TACO.DWG</p>
--	--	-----------------------------------	---	--



ILLINOIS ROUTES 1 AND 14

<p>CWM COMPANY, INC. 701 W. SOUTH GRAND SPRINGFIELD, IL. 62704 (217) 522-8001</p>	<p>HUCK'S #131 / MAIERS GROCERY CROSSVILLE, ILLINOIS INCIDENT #09-1397 WHITE COUNTY</p>	<p>R-26 MODELING OF CONTAMINATION MIGRATION MAP</p>	<p>DATE: 7/16/13 REVISED DATE: 7/22/2014 SCALE 1"=30' DRAWING: 0010</p>	<p>DRAWN BY: BMW REVISED BY: BMW REVIEWED BY: CLR R-26.DWG</p>
---	---	---	---	--

000832



CWM COMPANY, INC.
 701 W. SOUTH GRAND
 SPRINGFIELD, IL. 62704
 (217) 522-8001

HUCK'S #131 / MAIERS
 GROCERY
 CROSSVILLE, ILLINOIS
 INCIDENT #09-1397
 WHITE COUNTY

PROPOSED SAMPLING
 LOCATION MAP

DATE: 6/20/25
 REVISED DATE:
 SCALE 1"=20'
 DRAWING: 0011

DRAWN BY: BMW
 REVISED BY: MDR
 REVIEWED BY: CLR
 PSS.DWG

000833

*CW³M² Company, Inc.
Corrective Action Plan and Budget
Huck's #131 / Maier's Grocery
LPC #1930155021—Incident Number 2009-1397*

APPENDIX C

OSFM ELIGIBILITY DETERMINATION

**CORRECTIVE ACTION PLAN AND BUDGET
HUCK'S #131 – MAIER'S GROCERY
CROSSVILLE, ILLINOIS**



Office of the Illinois
State Fire Marshal
"Partnering With the Fire Service to Protect Illinois"

CERTIFIED MAIL - RECEIPT REQUESTED #7009 2250 0003 8632 1666

March 18, 2010

Martin & Bayley, Inc.
928 County Road 1350 North
Carmi, IL 62821

In Re: Facility No. 7-021663
 IEMA Incident No. 09-1397
 Meier Grocery #131
 109 South State Highway 1
 Crossville, White Co., IL

Dear Applicant:

The Reimbursement Eligibility and Deductible Application received on February 16, 2010 for the above referenced occurrence has been reviewed. The following determinations have been made based upon this review.

It has been determined that you are eligible to seek payment of costs in excess of \$10,000. The costs must be in response to the occurrence referenced above and associated with the following tanks:

Eligible Tanks

- Tank 1 10,000 gallon Gasoline
- Tank 2 10,000 gallon Gasoline

You must contact the Illinois Environmental Protection Agency to receive a packet of Agency billing forms for submitting your request for payment.

An owner or operator is eligible to access the Underground Storage Tank Fund if the eligibility requirements are satisfied:

1. Neither the owner nor the operator is the United States Government,
2. The tank does not contain fuel which is exempt from the Motor Fuel Tax Law,
3. The costs were incurred as a result of a confirmed release of any of the following substances:

"Fuel", as defined in Section 1.19 of the Motor Fuel Tax Law

Aviation fuel

Heating oil

Kerosene

1035 Stevenson Drive • Springfield, IL 67203-4259

Printed on Recycled Paper

Used oil, which has been refined from crude oil used in a motor vehicle, as defined in Section 1.3 of the Motor Fuel Tax Law.

4. The owner or operator registered the tank and paid all fees in accordance with the statutory and regulatory requirements of the Gasoline Storage Act.
5. The owner or operator notified the Illinois Emergency Management Agency of a confirmed release, the costs were incurred after the notification and the costs were a result of a release of a substance listed in this Section. Costs of corrective action or indemnification incurred before providing that notification shall not be eligible for payment.
6. The costs have not already been paid to the owner or operator under a private insurance policy, other written agreement, or court order.
7. The costs were associated with "corrective action".

This constitutes the final decision as it relates to your eligibility and deductibility. We reserve the right to change the deductible determination should additional information that would change the determination become available. An underground storage tank owner or operator may appeal the decision to the Illinois Pollution Control Board (Board), pursuant to Section 57.9 (c) (2). An owner or operator who seeks to appeal the decision shall file a petition for a hearing before the Board within 35 days of the date of mailing of the final decision, (35 Illinois Administrative Code 105.102(a) (2)).

For information regarding the filing of an appeal, please contact:

Dorothy Gunn, Clerk
Illinois Pollution Control Board
State of Illinois Center
100 West Randolph, Suite 11-500
Chicago, Illinois 60601
(312) 814-3620

The following tanks are also listed for this site:

Tank 3 8,000 gallon Gasoline
Tank 4 4,000 gallon Gasoline

Your application indicates that there has not been a release from these tanks under this incident number. You may be eligible to seek payment of corrective action costs associated with these tanks if it is determined that there has been a release from one or more of these tanks. Once it is determined that there has been a release from one or more of these tanks you may submit a separate application for an eligibility determination to seek corrective action costs associated with this/these tanks.

If you have any questions, please contact our Office at (217) 785-1020 or (217) 785-5878.

Sincerely,



Deanne Lock
Administrative Assistant
Division of Petroleum and Chemical Safety

cc: IEPA
Facility File

*CW³M Company, Inc.
Corrective Action Plan and Budget
Huck's #131 / Maier's Grocery
LPC #1930155021—Incident Number 2009-1397*

APPENDIX D

TACO CALCULATIONS AND MODELING

**CORRECTIVE ACTION PLAN AND BUDGET
HUCK'S #131 – MAIER'S GROCERY
CROSSVILLE, ILLINOIS**

R-26 Input/Summary Sheet

Version: 3/26/2018	
IEMA Incident # (6 or 8 digit)	2009-1397
IEPA LPC # (10 digit)	1930155021
Site Name:	Maier's Grocery (Huck's)
Site Address:	109 South State Street
City:	Crossville
County:	White
Zip Code:	62827
SSL Equations Used:	S5,6,7,8,9,10,17,18,19,20,21,22,24
RBCA Equations Used:	R-1, R-2, R3
Contact Information for Individual who Performed Calculat	MJS
Land Use:	Residential & Construction Worker
Objective from S17 used in R26:	No
Groundwater:	Class 1
Standard or Mass Limit Equations:	Standard Equations If Mass Limit, then Specify Acres: 1
Square Feet of Plume for Mass Limit Eq.:	0.00 < use this # above
Date Data Is Entered:	June 11, 2025

Entry	Description	Shelby Tube Location: 1
1.398	Holcomb Bulk Density (pcf), or Dry Soil Bulk Density (g/cm ³ or kg/L): 1.5, or Gravel = 2.0, Sand = 1.8, Silt = 1.8, Clay = 1.7, or site specific	
2.523	ps - Soil Particle Density	Reference
0.446	Total Soil Porosity	0.446 0.446
0.303	Water Filled Porosity	0.303 0.303
0.143	Air Filled Porosity	0.143 0.143
0.430	θ_r - Total Soil Porosity (RBCA)	0.43 or; Gravel = 0.25; Sand = 0.32; Silt = 0.40; Clay = 0.36
0.230	w - Average Soil Moisture Content	0.1, or: Subsurface Soil (top 1m) = 0.1; Subsurface Soil (below 1 m) = 0.2; or Site Specific
Loam	USDA Soil Classification (Pick from List)	

Entry	Description
0.00630	Fractional Organic Carbon (foc) in g/g
	Organic Matter (%):
	Organic Matter (mg/kg):
	Total Organic Carbon (g/g): 0.0063

Entry	Description	Well Name
1.74E-04	Average Hydraulic Conductivity (cm/sec)	MW-10
1.74E-04	Falling Hydraulic Conductivity (cm/sec)	
	Rising Hydraulic Conductivity (cm/sec)	
0.01669	Hydraulic Gradient (0.02 for sites with no groundwater)	Meters
10	d_a - Aquifer Thickness (ft)	3.048 m
10	d_s - Depth of Source (ft) (Vertical Thickness of Contamination)	3.048 m
	X - Distance along the centerline of the groundwater plume emanating to setback zone or surface water from the source in the direction of groundwater flow (ft) (RBCA)	0 cm
116	L - Source Length Parallel to Groundwater Flow (ft)	35.210496 m
105.59	Sw - Source Width -horizontal plane (ft) (RBCA)	3218.3832 cm

Hydraulic Gradient Calculations	
Distance:	

C_{1d} - Concentration of Contaminant in groundwater at distance X from the source (mg/L)	
Benzene	MTBE
Toluene	
Ethylbenzene	
Total Xylenes	

Surface Water

Chemicals of Concern		
Benzene	Naphthalene	
Toluene		Chrysene
Ethylbenzene		Benzo(k)fluoranthene
Total Xylenes		Indeno(1,2,3-cd)pyrene
MTBE		

- Mass Limit Equations
 Inhalation Equations
 Groundwater Ingestion Equations
 Csat Equations
 Fugitive Dust Equations
 Ingestion Equations
- SSL Equations Needed**

Summary of Tier 2 Calculations
Maler's Grocery (Huck's)
 2009-1397
 06/11/25

Table 3

Tier 1 Objectives

		Benzene		Toluene		Ethylbenzene		Total Xylenes		Naphthalene		MTBE	
Residential	Ingestion	12	mg/kg	16,000	mg/kg	7,800	mg/kg	16,000	mg/kg	1,600	mg/kg	780	mg/kg
	Inhalation	0.8	mg/kg	650	mg/kg	400	mg/kg	320	mg/kg	170	mg/kg	8,800	mg/kg
	Migration Class 1	0.03	mg/kg	12	mg/kg	13	mg/kg	150	mg/kg	12	mg/kg	0.32	mg/kg
	Migration Class 2	0.17	mg/kg	29	mg/kg	19	mg/kg	150	mg/kg	18	mg/kg	0.32	mg/kg
Industrial/Commercial	Ingestion	100	mg/kg	410,000	mg/kg	200,000	mg/kg	410,000	mg/kg	41,000	mg/kg	20,000	mg/kg
	Inhalation	1.60	mg/kg	650	mg/kg	400	mg/kg	320	mg/kg	270	mg/kg	8,800	mg/kg
Construction Worker	Ingestion	2,300	mg/kg	410,000	mg/kg	20,000	mg/kg	41,000	mg/kg	4,100	mg/kg	2,000	mg/kg
	Inhalation	2.20	mg/kg	42	mg/kg	58	mg/kg	5.6	mg/kg	1.80	mg/kg	140	mg/kg
Soil Saturation		580	mg/kg	290	mg/kg	150	mg/kg	110	mg/kg	104.43	mg/kg	8,400	mg/kg

Tier 2 SSL Objectives

		Benzene	Equation	Toluene	Equation	Ethylbenzene	Equation	Total Xylenes	Equation	Naphthalene	Equation	MTBE	Equation
Residential	Ingestion	11.64	S-2	6,257.14	S-1	7,821	S-1	15,643	S-1	1,564	S-1	782.1	S-1
	Inhalation	2.94	S-6	59,140	S-4	16.95	S-6	2,200.42	S-4	292.32	S-4	3,963.9	S-4
	Migration Mass-Limit Class 1	0.30	S-28	59.14	S-28	41.40	S-28	591.90	S-28	8.28	S-28	4.14	S-28
	Migration Class 1	0.056	S-17	24.80	S-17	31.72	S-17	558.91	S-17	9.43	S-17	0.40	S-17
Industrial-Commercial	Ingestion	104.06	S-2	1,635,200	S-1	204,400	S-1	408,800	S-1	40,880	S-1	20,440	S-1
	Inhalation	5.62	S-6	65,328.17	S-4	32.38	S-6	5,558.9	S-4	465.40	S-4	5,963.5	S-4
	Migration Mass-Limit Class 1	0.30	S-28	59.14	S-28	41.40	S-28	591.90	S-28	8.28	S-28	4.14	S-28
	Migration Class 1	0.056	S-17	24.80	S-17	31.72	S-17	558.91	S-17	9.43	S-17	0.40	S-17
Construction Worker	Ingestion	2,258.21	S-3	163,236	S-1	16,323.6	S-1	81,618	S-1	122,427	S-1	61,214	S-1
	Inhalation	7.91	S-7	70,398	S-5	45.54	S-7	90.98	S-5	3.01	S-5	506.20	S-5
Soil Saturation		999.48	S-29	657.13	S-29	385.20	S-29	302.70	S-29	104.43	S-29	14,392.37	S-29

all values are in mg/kg

Site Specific Value cannot exceed Soil Saturation Limit, otherwise Tier 2 Inhalation or Tier 2 Migration objectives are the Soil Saturation objective
 Calculated value is less than Tier 1 Objective

Groundwater Contaminant Concentration Exceedances at Surface Water or Set Back Zone (mg/L)

Result	Benzene	Equation	Toluene	Equation	Ethylbenzene	Equation	Total Xylenes	Equation	Naphthalene	Equation	MTBE	Equation
Surface Water Objective	0.86	R-26	0.6	R-26	0.014	R-26	0.36	R-26			#DIV/0!	R-26

Miser's Grocery (Huch's)

2009-1337

Math for R-2R Calculations
 BENEVOLENT FOR VERTICAL SOIL MODELING AND R-2R MODELING OF VERTICAL MODEL SOIL (Attachment A)

Sample Location: [C = 1 (for corrections in modeling part)]

Sample Location	C_s	C_p	C_m	C_{m1}	C_{m2}	C_{m3}	C_{m4}	C_{m5}	C_{m6}	C_{m7}	C_{m8}	C_{m9}	C_{m10}	C_{m11}	C_{m12}	C_{m13}	C_{m14}	C_{m15}	C_{m16}	C_{m17}	C_{m18}	C_{m19}	C_{m20}	C_{m21}	C_{m22}	C_{m23}	C_{m24}	C_{m25}	C_{m26}	C_{m27}	C_{m28}	C_{m29}	C_{m30}	C_{m31}	C_{m32}	C_{m33}	C_{m34}	C_{m35}	C_{m36}	C_{m37}	C_{m38}	C_{m39}	C_{m40}	C_{m41}	C_{m42}	C_{m43}	C_{m44}	C_{m45}	C_{m46}	C_{m47}	C_{m48}	C_{m49}	C_{m50}	C_{m51}	C_{m52}	C_{m53}	C_{m54}	C_{m55}	C_{m56}	C_{m57}	C_{m58}	C_{m59}	C_{m60}	C_{m61}	C_{m62}	C_{m63}	C_{m64}	C_{m65}	C_{m66}	C_{m67}	C_{m68}	C_{m69}	C_{m70}	C_{m71}	C_{m72}	C_{m73}	C_{m74}	C_{m75}	C_{m76}	C_{m77}	C_{m78}	C_{m79}	C_{m80}	C_{m81}	C_{m82}	C_{m83}	C_{m84}	C_{m85}	C_{m86}	C_{m87}	C_{m88}	C_{m89}	C_{m90}	C_{m91}	C_{m92}	C_{m93}	C_{m94}	C_{m95}	C_{m96}	C_{m97}	C_{m98}	C_{m99}	C_{m100}																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
10	0.002	0.005	0.009	0.014	0.020	0.028	0.038	0.051	0.068	0.091	0.120	0.157	0.204	0.263	0.338	0.433	0.553	0.704	0.894	1.130	1.421	1.776	2.204	2.714	3.315	4.027	4.861	5.828	6.938	8.292	9.899	11.772	13.921	16.366	19.117	22.184	26.577	31.316	36.419	41.896	47.757	53.914	60.377	67.156	74.269	81.727	89.541	97.721	106.277	115.220	124.560	134.297	144.441	154.992	165.950	177.315	189.087	201.266	213.853	226.848	240.251	254.062	268.281	282.918	297.973	313.447	329.340	345.652	362.383	379.534	397.105	415.096	433.507	452.338	471.589	491.260	511.351	531.862	552.793	574.144	595.915	618.106	640.717	663.748	687.199	711.070	735.361	760.072	785.203	810.754	836.725	863.116	890.027	917.458	945.409	973.880	1002.881	1032.412	1062.473	1093.064	1124.185	1155.836	1188.017	1220.728	1253.969	1287.740	1322.041	1356.872	1392.233	1428.124	1464.545	1501.496	1538.977	1576.988	1615.529	1654.600	1694.201	1734.332	1775.003	1816.314	1858.265	1900.856	1944.087	1987.958	2032.469	2077.620	2123.411	2169.842	2216.913	2264.624	2312.975	2361.966	2411.597	2461.868	2512.779	2564.330	2616.521	2669.352	2722.823	2776.934	2831.685	2887.076	2943.107	3000.000	3057.755	3116.272	3175.551	3235.592	3296.395	3357.960	3420.287	3483.386	3547.157	3611.598	3676.709	3742.490	3808.941	3876.052	3943.823	4012.254	4081.345	4151.096	4221.507	4292.578	4364.309	4436.690	4509.721	4583.402	4657.733	4732.714	4808.345	4884.626	4961.557	5039.138	5117.369	5196.250	5275.781	5355.962	5436.793	5518.274	5599.405	5681.186	5763.617	5846.698	5930.429	6014.810	6099.841	6185.522	6271.853	6358.834	6446.465	6534.746	6623.677	6713.258	6803.489	6894.370	6985.901	7078.082	7170.913	7264.394	7358.525	7453.306	7548.737	7644.818	7741.549	7838.930	7936.961	8035.642	8134.973	8234.954	8335.585	8436.866	8538.797	8641.378	8744.609	8848.490	8953.021	9058.202	9164.033	9270.514	9377.645	9485.426	9593.857	9702.938	9812.669	9923.050	10034.081	10145.762	10258.093	10371.074	10484.705	10598.986	10713.917	10829.498	10945.729	11062.600	11180.121	11298.292	11417.113	11536.584	11656.705	11777.476	11898.897	12020.968	12143.689	12267.060	12391.081	12515.752	12641.073	12767.044	12893.665	13020.936	13148.857	13277.428	13406.649	13536.520	13667.041	13798.212	13930.033	14062.504	14195.625	14329.396	14463.817	14598.888	14734.609	14870.980	15008.001	15145.672	15283.993	15422.964	15562.585	15702.856	15843.777	15985.348	16127.569	16270.440	16413.961	16558.132	16702.953	16848.424	16994.545	17141.316	17288.737	17436.808	17585.529	17734.900	17884.921	18035.592	18186.913	18338.884	18491.505	18644.776	18798.697	18953.268	19108.489	19264.360	19420.881	19578.052	19735.873	19894.344	20053.465	20213.236	20373.657	20534.728	20696.449	20858.820	21021.841	21185.512	21349.833	21514.804	21680.425	21846.696	22013.617	22181.188	22349.409	22518.280	22687.801	22857.972	23028.793	23199.264	23370.385	23542.156	23714.577	23887.648	24061.369	24235.740	24410.761	24586.432	24762.753	24939.724	25117.345	25295.616	25474.537	25654.108	25834.329	26015.200	26196.721	26378.892	26561.713	26745.184	26929.305	27114.076	27299.497	27485.568	27672.289	27859.660	28047.681	28236.352	28425.673	28615.644	28806.265	29007.536	29209.457	29412.028	29615.249	29819.120	30023.641	30228.812	30434.633	30641.104	30848.225	31055.996	31264.417	31473.488	31683.209	31893.580	32104.601	32316.272	32528.593	32741.564	32955.185	33169.456	33384.377	33599.948	33816.169	34033.040	34250.561	34468.732	34687.553	34907.024	35127.145	35347.916	35569.337	35791.408	36014.129	36237.500	36461.521	36687.192	36913.513	37140.484	37368.105	37596.376	37825.297	38054.868	38285.089	38515.960	38747.481	38979.652	39212.473	39445.944	39680.065	39914.836	40150.257	40386.328	40622.949	40860.120	41097.841	41336.112	41574.933	41814.304	42054.225	42294.696	42535.717	42777.288	43019.409	43262.080	43505.301	43749.072	43993.393	44238.264	44483.685	44729.656	44976.177	45223.248	45470.869	45719.040	45967.761	46217.032	46466.853	46717.224	46968.145	47219.616	47471.637	47724.208	47977.329	48230.990	48485.201	48739.962	49005.273	49261.134	49517.545	49774.506	50032.017	50290.078	50548.689	50807.850	51067.561	51327.822	51588.633	51849.994	52111.905	52374.366	52637.377	52900.938	53165.049	53429.710	53694.921	53960.682	54226.993	54493.854	54761.265	55029.226	55297.737	55566.798	55836.409	56106.570	56377.281	56648.542	56920.353	57192.714	57465.625	57739.086	58013.097	58287.658	58562.769	58838.430	59114.641	59391.402	59668.713	59946.574	60224.985	60503.946	60783.457	61063.518	61344.129	61625.290	61906.991	62189.242	62472.043	62755.394	63039.295	63323.746	63608.747	63894.298	64180.399	64467.050	64754.251	65042.002	65330.303	65619.154	65909.555	66200.506	66492.007	66784.058	67076.659	67369.810	67663.511	67957.762	68252.563	68547.914	68843.815	69140.266	69437.267	69734.818	70032.919	70331.570	70630.771	70930.522	71230.823	71531.674	71833.075	72135.026	72437.527	72740.578	73044.179	73348.330	73653.031	73958.282	74264.083	74570.434	74877.335	75184.786	75492.787	75801.338	76110.439	76420.090	76730.291	77041.042	77352.343	77664.194	77976.595	78289.546	78603.047	78917.098	79231.699	79546.850	79862.551	80178.802	80495.603	80812.954	81130.855	81449.306	81768.307	82087.858	82407.959	82728.610	83049.811	83371.562	83693.863	84016.714	84340.115	84664.066	84988.567	85313.618	85639.219	85965.370	86292.071	86619.322	86947.123	87275.474	87604.375	87933.826	88263.827	88594.378	88925.479	89257.130	89589.331	89922.082	90255.383	90589.234	90923.635	91258.586	91594.087	91929.138	92264.739	92600.890	92937.591	93274.842	93612.643	93950.994	94289.895	94629.346	94969.347	95309.898	95650.999	95992.650	96334.851	96677.602	97020.903	97364.754	97709.155	98054.106	98409.607	98765.658	99122.259	99479.410	99837.111	100205.362	100574.163	100943.514	101313.415	101683.866	102054.867	102426.418	102798.519	103171.170	103544.371	103918.122	104292.423	104667.274	105042.675	105418.626	105795.127	106172.178	106549.779	106927.930	107306.631	107685.882	108065.683	108446.034	108826.935	109208.386	109590.387	109972.938	110356.039	110739.690	111123.891	111508.642	111893.943	112279.794	112666.195	113053.146	113440.647	113828.698	114217.299	114606.450	114996.151	115386.402	115777.203	116168.554	116560.455	116952.906	117345.907	117739.458	118133.559	118528.210	118923.411	119319.162	119715.463	120112.314	120509.715	120907.666	121306.167	121705.218	122104.819	122504.970	122905.671	123306.922	123708.723	124111.074	124513.975	124917.426	125321.427	125725.978	126131.079	126536.730	126942.931	127349.682	127756.983	128164.834	128573.235	128982.186	129391.687	129801.738	130212.339	130623.490	131035.191	131447.442	131860.243	132273.594	132687.495	133101.946	133516.947	133932.498	134348.599	134765.250	135182.451	135600.202	136018.503	136437.354	136856.755	137276.706	137697.207	138118.258	138539.859	138961.910	139384.511	139807.662	140231.363	140655.614	141080.415	141505.766	141931.667	142358.118	142785.119	143212.670	143640.771	144069.422	144498.623	144928.374	145358.675	145789.526	146220.927	146652.878	147085.379	147518.430	147952.031	148386.182	148820.883	149256.134	149691.935	15

**Illinois Environmental Protection Agency
Leaking Underground Storage Tank Program
SSL Input Parameters for Use with Tier 2 Calculations**

A. Site Identification

IEMA Incident # (6- or 8-digit): 2009-1397 IEPA LPC # (10-digit): 1930155021

Site Name: Maier's Grocery (Huck's)

Site Address (not a P.O. Box): 109 South State Street

City: Crossville County: White Zip Code: 62827

Leaking UST Technical File

B. Tier 2 Calculation Information

Equation(s) Used (ex: S12,S17,S28): S5,6,7,8,9,10,17,18,19,20,21,22,24

Contact Information for Individual Who Performed Calculations:

MJS

Land Use: Residential Soil Type: Loam

Groundwater: Class I Class II

Mass Limit: Yes No If Yes, then Specify Acreage: _____

- Mass Limit Acreage other than defaults must always be rounded up.
- Failure to use site-specific parameters where allowed could affect payment from the UST Fund
- Maps depicting source width, plume dimensions, distance, etc. must also be submitted.
- Inputs must be submitted in the designated unit.

AT (ingestion)	=	Residential = 6	yr
		Con. Worker = 0.115	yr
AT (inhalation)	=	Residential = 30	yr
		Con. Worker = 0.115	yr
AT _c	=	70	yr
BW	=	Res. (NonCarcinogen) = 15	kg
		Res. (Carcinogen) = 70	kg
		Con. Worker = 70	kg
C _{sat}	=	Benzene = 999.476	mg/kg
		Toluene = 657.125	mg/kg
		Ethylbenzene = 385.199	mg/kg
		Total Xylenes = 302.704	mg/kg
		MTBE = 14392.371	mg/kg
		Naphthalene = 104.431	mg/kg
			mg/kg
			mg/kg
			mg/kg

d _a	=	3.048	m
d _s	=	3.048	m
DA	=	Benzene = 0.000202984070044937	cm ² /s
		Toluene = 0.000105714611023789	cm ² /s
		Ethylbenzene = 5.95877870468648E-05	cm ² /s
		Xylenes = 4.02873365928484E-05	cm ² /s
		MTBE = 5.08405173022631E-05	cm ² /s
		Naphthalene = 2.06946398117553E-06	cm ² /s
			cm ² /s
			cm ² /s
			cm ² /s

Incident # 2009-1397

C_w	=	Benzene = 0.1 mg/L Toluene = 20 mg/L Ethylbenzene = 31.722 mg/L Total Xylenes = 550.371 mg/L MTBE = 0.395 mg/L Naphthalene = 9.432 mg/L
d	=	6.705 m
ED (inhalation of carcinogens)	=	Residential = 30 yr Con. Worker = 1 yr
ED (ingestion of noncarcinogens)	=	Residential = 6 yr Con. Worker = 1 yr
ED (inhalation of noncarcinogens)	=	Residential = 30 yr Con. Worker = 1 yr
ED (ingestion of groundwater)	=	Residential = 30 yr Con. Worker = 1 yr
ED_{M-L}	=	70 yr
EF	=	Residential = 350 d/yr Con. Worker = 30 d/yr
$F(x)$	=	0.194 unitless
f_{oc}	=	0.0063 g/g
GW_{obj}	=	Benzene = 0.005 mg/L Toluene = 1 mg/L Ethylbenzene = 0.7 mg/L Total Xylenes = 10 mg/L MTBE = 0.07 mg/L Naphthalene = 0.14 mg/L
H'	=	Benzene = 0.23 unitless Toluene = 0.271 unitless Ethylbenzene = 0.324 unitless Total Xylenes = 0.271 unitless MTBE = 0.0241 unitless Naphthalene = 0.0198 unitless
i	=	0.01669 m/m
l	=	0.3 m/yr
l_{M-L}	=	0.18 m/yr
$IF_{soil-adj}$	=	114 (mg-yr)/(kg-d)
IR_{soil}	=	Residential = 200 mg/d Con. Worker = 480 mg/d

D_i	=	Benzene = 0.088 cm ² /s Toluene = 0.087 cm ² /s Ethylbenzene = 0.075 cm ² /s Total Xylenes = 0.0735 cm ² /s MTBE = 0.102 cm ² /s Naphthalene = 0.0000075 cm ² /s
D_w	=	Benzene = 0.0000102 cm ² /s Toluene = 0.0000086 cm ² /s Ethylbenzene = 0.0000078 cm ² /s Total Xylenes = 0.00000923 cm ² /s MTBE = 0.000011 cm ² /s Naphthalene = 0.0000075 cm ² /s
DF	=	1.581327594 unitless
ED (ingestion of carcinogens)	=	Con. Worker = 1 yr
K_{oc}	=	Benzene = 50 cm ³ /g or L/kg Toluene = 158 cm ³ /g or L/kg Ethylbenzene = 320 cm ³ /g or L/kg Total Xylenes = 398 cm ³ /g or L/kg MTBE = 10 cm ³ /g or L/kg Naphthalene = 500 cm ³ /g or L/kg
K_s	=	60 m/yr
L	=	35.210496 m
PEF	=	m ³ /kg
PEF'	=	m ³ /kg
Q/C (VF equations)	=	Residential = 68.81 (g/m ² -s)/(kg/m ³) Con. Worker = 85.81 (g/m ² -s)/(kg/m ³)
Q/C (PEF equations)	=	(g/m ² -s)/(kg/m ³)
RfC (mg/m ³)		Chronic Subchronic
Benzene	=	0.03 0.08
Toluene	=	5 5
Ethylbenzene	=	1 9
Total Xylenes	=	0.1 0.4
MTBE	=	3 2.5
Naphthalene	=	0.003 0.003
	=	NA
	=	NA
	=	NA
	=	NA

Incident # 2009-1397

IR_w	=	Residential = 2	L/d
K	=	54.87264	m/yr
K_d (non-ionizing organics)	=	Benzene = 0.315	cm ² /g or L/kg
		Toluene = 0.9954	cm ² /g or L/kg
		Ethylbenzene = 2.016	cm ² /g or L/kg
		Total Xylenes = 2.5074	cm ² /g or L/kg
		MTBE = 0.063	cm ² /g or L/kg
		Naphthalene = 3.15	cm ² /g or L/kg
K_d (ionizing organics)	=		cm ² /g or L/kg
K_d (inorganics)	=		cm ² /g or L/kg
VF'	=	Benzene = 724.245	m ³ /kg
		Toluene = 1003.573	m ³ /kg
		Ethylbenzene = 1336.713	m ³ /kg
		Total Xylenes = 1625.67	m ³ /kg
		MTBE = 1447.144	m ³ /kg
		Naphthalene = 7172.785	m ³ /kg
			m ³ /kg
VM _{M-L}	=	#VALUE!	m ³ /kg
		#VALUE!	m ³ /kg
		#VALUE!	m ³ /kg
		#VALUE!	m ³ /kg
		#VALUE!	m ³ /kg
		#VALUE!	m ³ /kg
VF' _{M-L}	=	#VALUE!	m ³ /kg
		#VALUE!	m ³ /kg
		#VALUE!	m ³ /kg
		#VALUE!	m ³ /kg
		#VALUE!	m ³ /kg
		#VALUE!	m ³ /kg
		#VALUE!	m ³ /kg
		#VALUE!	m ³ /kg
η	=	0.446	L _{pore} /L _{soil}
θ_a	=	0.143	L _{air} /L _{soil}

RfD _o mg/(kg-d)	Chronic	Subchronic
Benzene	= 0.004	0.012
Toluene	= 0.08	0.8
Ethylbenzene	= 0.1	0.05
Total Xylenes	= 0.2	0.4
MTBE	= 0.01	0.3
Naphthalene	= 0.02	0.6
	=	0.2
	=	NA
	=	NA
	=	NA
S	=	Benzene = 1800 mg/L Toluene = 530 mg/L Ethylbenzene = 170 mg/L Total Xylenes = 110 mg/L MTBE = 51000 mg/L Naphthalene = 31 mg/L
SF _o	=	Benzene = 0.055 (mg/kg-d) ⁻¹ Toluene = NA (mg/kg-d) ⁻¹ Ethylbenzene = 0.011 (mg/kg-d) ⁻¹ Total Xylenes = NA (mg/kg-d) ⁻¹ MTBE = NA (mg/kg-d) ⁻¹ Naphthalene = NA (mg/kg-d) ⁻¹
T	=	Residential = 9.5E08 s Con. Worker = 3.6 x 10 ⁸ s
T _{M-L}	=	30 yr
THQ	=	1 unitless
TR	=	1.00E-06 unitless
U _m	=	4.69 m/s
URF	=	Benzene = 7.8 x 10 ⁻⁶ (µg/m ³) ⁻¹
U _t	=	11.32 m/s
V	=	0.5 unitless
VF	=	Benzene = 9434.307 m ³ /kg Toluene = 13072.947 m ³ /kg Ethylbenzene = 17412.55 m ³ /kg Total Xylenes = 21176.624 m ³ /kg MTBE = 18851.071 m ³ /kg Naphthalene = 93435.536 m ³ /kg

Incident # 2009-1397

θ_w	=	0.303	$L_{\text{water}}/L_{\text{soil}}$
ρ_b	=	1.398	kg/l or g/cm ³
ρ_s	=	2.523	g/cm ³
ρ_w	=	1	g/cm ³
$1/(2b+3)$	=	0.073	unitless

**Illinois Environmental Protection Agency
Leaking Underground Storage Tank Program
RBCA Input Parameters for Use with Tier 2 Calculations**

A. Site Identification

IEMA Incident # (6- or 8-digit): 2009-1397 IEPA LPC # (10-digit): 1930155021

Site Name: Maier's Grocery (Huck's)

Site Address (not a P.O. Box): 109 South State Street

City: Crossville County: White Zip Code: 62827

Leaking UST Technical File

B. Tier 2 Calculation Information

Equation(s) Used (ex: R12,R14,R26): R16, R17, R18, R19, R21, R22, R23, R24, R26

Contact Information for Individual Who Performed Calculations:

MJS

Land Use: Residential Soil Type: Loam

Groundwater: Class I Class II

Mass Limit: Yes No If Yes, then Specify Acreage: _____

Objective from S17 used in R26? Yes No

If Yes, then Specify C_{source} from S17 See Attached mg/L.

- Mass Limit Acreage other than defaults must always be rounded up.
- Failure to use site-specific parameters where allowed could affect payment from the UST Fund
- Maps depicting source width, plume dimensions, distance, etc. must also be submitted.
- Inputs must be submitted in the designated unit.

AT _c	=	70	yr
AT _n	=	Residential = 30 Con. Worker = 0.115	yr
BW	=	70	yr
C _{source}	=	See Attached	mg/L
C _{tol}	=	See Attached	mg/L
d	=	100	cm

erf	=	See Attached	unitless
f _{oc}	=	0.0063	g/g
GW _{comp}	=	See Attached	mg/L
GW _{source}	=	See Attached	mg/L
H'	=	See Attached	cm ³ soil/cm ³ air
i	=	0.01669	cm/cm
l	=	30	cm/yr
IR _{air}	=	20	m ³ /d
IR _{soil}	=	Residential = 100 Con. Worker = 480	mg/d
IR _{up}	=	Residential = 2	L/d
K	=	15.034 5487.264	cm/d cm/yr
K _{oc}	=	See Attached	cm ³ /g or L/kg
k _a (non-halogen organics)	=	See Attached	cm ³ water/gsoil
k _a (halogen organics)	=	Not Applicable	cm ³ water/gsoil
k _a (inorganics)	=	Not Applicable	cm ³ water/gsoil
L _s	=	100	cm
LF _{EV}	=	See Attached	(mg/L-air)(mg/L-soil)
M	=	0.5	mg/cm ²
Pe	=	6.9 · 10 ⁻¹⁴	g/cm ² -s
RAF _d	=	0.5	unitless
α _z	=	See Attached	cm
α _y	=	See Attached	cm
α _x	=	See Attached	cm
λ	=	See Attached	d ⁻¹
π	=	3.1416	
τ	=	9.46 · 10 ⁸	s

D ^{eff}	=	See Attached	cm ² /s
D ^{water}	=	See Attached	cm ² /s
D _s ^{eff}	=	See Attached	cm ² /s
ED	=	Residential = 30 Con. Worker = 1	yr
EF	=	Residential = 350 Con. Worker = 30	d/yr

RAF _g (PNAs)	=	0.05	unitless
RAF _g (inorganics)	=	0	unitless
RAF _o	=	1	unitless
RBSL _{air} (carcinogenic)	=	See Attached	μg/m ³
RBSL _{air} (noncarcinogenic)	=	See Attached	μg/m ³
RfD _i	=	See Attached	mg/kg-d
SA	=	3,160	cm ² /d
S _d	=	200.0	cm
S _w	=	3,218.4	cm
SF _i	=	See Attached	(mg/kg-d) ⁻¹
SF _o	=	See Attached	(mg/kg-d) ⁻¹
THQ	=	1	unitless
TR	=	1.00E-06	unitless
U	=	0.5835	cm/d
U _{air}	=	225	cm/s
U _{gr}	=	5487.280	cm/y
VF _p	=	3.97133E-12	kg/m ³
VF _{comb}	=	See Attached	(mg/L-air)(mg/L-soil) or kg/m ³
VF _{ss}	=	See Attached	kg/m ³
W	=		cm
w	=	0.23	gwater/gsoil
δ _{air}	=	200	cm
δ _{gr}	=	200	cm
θ _{res}	=	0.10846	cm ³ air/cm ³ soil
θ _{res}	=	0.32154	cm ³ water/cm ³ soil
θ _r	=	0.43	cm ³ /cm ³ soil
ρ _b	=	1.398	g/cm ³
ρ _w	=	1	g/cm ³

Tier 2 Residential Calculations for Benzene

Mater's Grocery (Huck's)
2009-1397

SSL
RBCA

SSL & RBCA
IRIS/HEAST

Date Compiled: 06/11/25

Input Values		Converted Value to be used in calculation sheet -->		USDA Soil Classification: Loam	
Holcomb's Bulk Density -->	0	Organic Matter (%) -->	0	FOC % (0.58 conversion) -->	0.000
1.398	ρ_d - Dry Soil Bulk Density	0.000	Organic Matter (mg/kg)	0	FOC mg/kg (0.58 conversion)
2.523	ρ_s - Soil Particle Density	0.000	1.5 or; Gravel = 2.0; Sand = 1.8; Silt = 1.6; Clay = 1.7; or Site Specific	0.000	foc conversion to g/g: 0.000
0.143	θ_a - Air Filled Soil Porosity	0.143	Value from S-21	Top 1 meter = 0.28; below 1 meter = 0.13; Gravel = 0.05; Sand = 0.14; Silt = 0.24; Clay = 0.19; or Calculated Value (S21)	
0.303	θ_w - Water Filled Soil Porosity	0.303	Value from S-20	Top 1 meter = 0.15; below 1 meter = 0.30; Gravel = 0.20; Sand = 0.18; Silt = 0.16; Clay = 0.17; or Calculated Value (S20)	
0.446	η - SSL: Total Soil Porosity	0.446	Value from S-24	0.43 or; Gravel - 0.25; Sand = 0.32; Silt = 0.40; Clay = 0.36; or Calculated Value (S24 or R23)	
0.0167	i - Hydraulic Gradient			Site Specific	
0.006	foc - Total Organic Carbon (g/g)			Surface Soil = 0.006; Subsurface Soil = 0.002; or Site Specific	
20.000	DF - Dilution Factor	1.591	Value from S-22	If calculated value for DF is less than 20, then 20 default is used, else calculated value is used	
6.705	d - Mixing Zone (m)	6.705	Value from S-25	2; or calculated value	
3.048	d_s - Depth of source (m)		feet = 10	Depth of Source (Vertical thickness of contamination)	
54.87	K - Hydraulic Conductivity (m/yr)	1.74E-04	cm/sec =	15.03	cm/d
35.210	L - Source Length Parallel to Groundwater Flow (m)		feet = 115.52	Site Specific (m)	
3.048	d_a - Aquifer Thickness (m)		feet = 10	Site Specific (m)	
0.3	i - Infiltration Rate (m/yr)			0.3 for Illinois	
60	K_s - Saturated Hydraulic Conductivity			See Table K for Input Values	
0.005	GW_{obj} - Groundwater Remediation Objective Class 1			0.025	GW_{obj} - Groundwater Remediation Objective Class 2
0.073	1/(2b+3) - Exponent for S20			See Table K for Input Values	
70	BW - Body Weight			Residential = 70 (carcinogenic); 15 (non-carcinogenic); Industrial/Commercial = 70; Construction Worker = 70; RBCA = 70	
114	IF_{adj} - Age Adjusted Soil Ingestion Factor for Carcinogens			114	
200	IR_{soil} - Soil Ingestion Rate			Residential = 200; Industrial/Commercial = 50; Construction Worker = 480	
0.055	SF_o - Oral Slope Factor			Benzene = 0.055	
2	IR_w - Daily Water Ingestion Rate			Residential = 2; Industrial/Commercial = 1	
1800	S - Solubility in Water			Benzene = 1750	
1.0E-06	TR - Target Cancer Risk			Residential = 10^{-6} ; Industrial/Commercial = 10^{-5} ; Construction Worker = 10^{-5} at point of human exposure	
70	AT_c - Average Time for Carcinogens			70	
7.80E-06	URF - Inhalation Unit Risk Factor			Benzene = 7.8×10^{-6}	
350	EF - Exposure Frequency			Residential = 350; Industrial/Commercial = 250; Construction Worker = 30	
30	ED - Exposure Duration for Inhalation to Carcinogens			Residential = 30; Industrial/Commercial = 25; Construction Worker = 1	
68.81	Q/C - Inverse of the mean concentration at the center of a square source			Residential = 68.81; Industrial/Commercial = 85.81; Construction Worker = 85.81; or Table H	
9.50E+08	T - Exposure Interval			Residential = 9.5×10^8 ; Industrial/Commercial = 7.9×10^8 ; Construction Worker = 3.6×10^8	
30	T_{ML} - Exposure Interval for Moll Limit Volatilization Factor Equation S26			30	
70	ED_{ML} - Exposure Duration for Migration to Groundwater Mass-Limit Equation S28			70	
0.18	i_{ML} - Infiltration Rate for Migration to Groundwater Mass-Limit Equation S28			0.18	
0.088	D & D^{eff} - Diffusivity in Air			Benzene = 0.088	
0.230	H' - Henry's Law Constant			Benzene = 0.228	
1.02E-05	D_w & D_w^{eff} - Diffusivity in Water			Benzene = 9.8×10^{-6}	
50.00	K_{oc} - Organic Carbon Partition Coefficient			Benzene = 58.9	

Residential Ingestion Tier II Benzene Objective

$$S-2 = \frac{TR \cdot AT_c \cdot 365}{SF_o \cdot 10^{-6} \cdot EF \cdot IF_{adj}} = \frac{1.0E-06 \cdot 70 \cdot 365}{0.055 \cdot 1.00E-06 \cdot 350 \cdot 114} = \frac{2.6E-02}{2.19E-03} = 11.843 \text{ mg/kg}$$

Construction Worker Ingestion Tier II Benzene Objective

$$S-3 = \frac{TR \cdot BW \cdot AT_c \cdot 365}{SF_o \cdot 10^{-6} \cdot EF \cdot IR_{soil}} = \frac{1.0E-06 \cdot 70 \cdot 70 \cdot 365}{0.055 \cdot 1.00E-06 \cdot 30 \cdot 480} = \frac{1.8E+00}{7.92E-04} = 2258.21 \text{ mg/kg}$$

Tier 2 Residential Calculations for Benzene

Maler's Grocery (Huck's)
2009-1397

Residential Inhalation Tier II Benzene Objective

$$S-6 = \frac{TR \times ATc \times 365}{URF \times 1000 \times EF \times ED \times 1/VF} = \frac{1.0E-06 \cdot 70 \cdot 365}{7.80E-06 \cdot 1000 \cdot 350 \cdot 30 \cdot (1/9,434.31)} = \frac{0.02555}{8.68E-03} = 2.943 \text{ mg/kg}$$

Construction Worker Inhalation Tier II Benzene Objective

$$S-7 = \frac{TR \times ATc \times 365}{URF \times 1000 \times EF \times ED \times 1/VF} = \frac{1.0E-06 \cdot 70 \cdot 365}{7.80E-06 \cdot 1000 \cdot 30 \cdot 1 \cdot (1/72.42)} = \frac{0.02555}{3.23E-03} = 7.908 \text{ mg/kg}$$

RESIDENTIAL OR COMMERCIAL

$$S-8 = VF = \frac{Q}{C} \times \frac{(3.14 \times D_A \times T)^{1/2} \times 10^{-4}}{(2 \times \rho_b \times D_A)} = 68.81 \times \left(\frac{3.14 \times 2.03E-04 \times 9.50E+08}{2 \times 1.398 \times 2.03E-04} \right)^{1/2} \times 0.0001 = \frac{5.3544}{0.0006} = 9434.308$$

Construction Worker

$$S-8 = VF = \frac{Q}{C} \times \frac{(3.14 \times D_A \times T)^{1/2} \times 10^{-4}}{(2 \times \rho_b \times D_A)} = 85.81 \times \left(\frac{3.14 \times 2.03E-04 \times 3.60E+06}{2 \times 1.398 \times 2.03E-04} \right)^{1/2} \times 0.0001 = \frac{0.4110}{0.0006} = 724.2455$$

Equation for Derivation of Volatilization Factor - Construction Worker

$$S-9 = VF' = \frac{VF}{10} = \frac{724.2455}{10} = 72.4246$$

Equation for Derivation of Apparent Diffusivity

$$S-10 = D_A = \frac{(\theta_w^{3.33} \times D_l \times H') + (\theta_w^{3.33} \times D_w)}{\eta^2} \times \frac{1}{(\rho_b \times K_d) + \theta_w + (\theta_a \times H')}$$

$$= \frac{(1.54E-03 \times 0.088 \times 0.230) + (0.0188 \times 1.02E-05)}{0.1989} \times \frac{1}{(1.398 \times 0.315) + 0.30 + (0.143 \times 0.230)} = 2.03E-04$$

Soil Component of the Migration to Groundwater Cleanup Objective (Class 1)

$$S-17 = C_w \times \left[K_d + \frac{(\theta_w + \theta_a \times H')}{\rho_b} \right] = 0.1 \times \left[0.315 + \frac{0.303 + 0.143 \times 0.230}{1.398} \right] = 0.056 \text{ mg/kg}$$

Target Soil Leachate Concentration (Class 1)

$$S-18 = C_w = DF \times GW_{obj} = 20.00 \times 0.005 = 0.1$$

Tier 2 Residential Calculations for Benzene
 Malar's Grocery (Huck's)
 2009-1397

Soil-Water Partition Coefficient

$$S-19 = K_d = K_{oc} \times f_{oc} = 50.00 \times 0.006 = 0.315$$

Water-Filled Porosity

$$S-20 = \Theta_w = \eta \times \frac{1}{K_c}^{(2b+3)} = 0.45 \times \left[\frac{0.300}{60.000} \right]^{0.073} = 0.3029$$

Air-Filled Porosity

$$S-21 = \Theta_a = \eta - \Theta_w = 0.45 - 0.30 = 0.1430$$

Dilution Factor

$$S-22 = DF = 1 + \frac{K \times i \times d}{l \times L} = \frac{54.87 \times 0.0167 \times 6.705}{0.300 \times 35.210} + 1 = 1.5813$$

GW Ingestion

$$S-23 = \frac{TR \times BW \times A_c \times 365}{SF_o \times IR_w \times EF \times ED} = \frac{1.0E-06 \times 70 \times 70 \times 365}{0.055 \times 2.000 \times 350 \times 30} = \frac{1.8E+00}{1155} = 0.0015 \text{ mg/L}$$

Total Soil Porosity

$$S-24 = \eta = 1 - \frac{\rho_b}{\rho_s} = 1 - \frac{1.398}{2.523} = 0.4459$$

Estimation of Mixing Zone Depth

$$S-25 = d = (0.0112 \times L^2)^{0.5} + d_o \left[1 - \exp \left(\frac{-L \times l}{K \times i \times d_o} \right) \right]$$

$$= (0.0112 \times 35.210^2)^{0.5} + 3.048 \times \left[1 - \exp \left(\frac{-35.210 \times 0.3}{54.873 \times 0.0167 \times 3.048} \right) \right] = 6.705 \text{ m}$$

Soil Saturation Limit

$$S-29 = C_{sat} = \frac{S}{\rho_b} \times [(K_d \times \rho_b) + \Theta_w + (H' \times \Theta_a)] = \frac{1800}{1.398} \times [(0.315 \times 1.398) + 0.303 + (0.230 \times 0.143)] = 999.48 \text{ mg/kg}$$

Soil Gas Outdoor Inhalation

$$S-30 = RO_s \text{ g} = \frac{RO_{soil} \times H \times \rho_b \times 1000}{H' \times \Theta_a + \Theta_w + K_d \times \rho_b} = \frac{2.943 \times 0.230 \times 1.398 \times 1000}{0.230 \times 0.143 + 0.303 + 0.315 \times 1.398} = 1,219.12 \text{ mg/m}^3$$

Tier 2 Residential Calculations for Ethylbenzene
Mae's Grocery (Huck's)
 2009-1397

SSL
 RBCA
 SSL & RBCA
 IRIS/HEAST

Date Compiled: 06/11/25

Input Values		Converted Value to be used in calculation sheet -->		USDA Soil Classification: Loam	
Hotcomb's Bulk Density -->	0	OC % (0.68 conversion) -->	0.000	OC mg/kg (0.68 conversion)	0.000
Organic Matter (%) -->	0	OC mg/kg (0.68 conversion) -->	0.000	OC conversion to g/g	0.000
1.998	ρ_d - Dry Soil Bulk Density			1.5 or; Gravel = 2.0; Sand = 1.8; Silt = 1.6; Clay = 1.7; or Site Specific	
2.623	ρ_s - Soil Particle Density			2.65 or; Site Specific	
0.143	ϕ_a - Air Filled Soil Porosity	0.143	Value from S-21	Top 1 meter = 0.29; below 1 meter = 0.13; Gravel = 0.05; Sand = 0.14; Silt = 0.24; Clay = 0.19; or Calculated Value (S21)	
0.303	ϕ_w - Water Filled Soil Porosity	0.303	Value from S-20	Top 1 meter = 0.15; below 1 meter = 0.30; Gravel = 0.20; Sand = 0.18; Silt = 0.16; Clay = 0.17; or Calculated Value (S20)	
0.446	η - SSL Total Soil Porosity	0.446	Value from S-24	0.43 or; Gravel = 0.25; Sand = 0.32; Silt = 0.40; Clay = 0.36; or Calculated Value (S24)	
0.01669	I - Hydraulic Gradient			Site Specific	
0.006	f_{oc} - Total Organic Carbon (g/g)			Surface Soil = 0.006; Subsurface Soil = 0.002; or Site Specific	
20.000	DF - Dilution Factor	1.987	Value from S-22	If calculated value for DF is less than 20, then 20 default is used, else calculated value is used	
6.705	δ - Mixing Zone (m)	6.705	Value from S-25	2; or calculated value	
3.048	d_s - Depth of source (m)		feet = 10	Depth of Source (vertical thickness of contamination)	
54.87	K - Hydraulic Conductivity (m/yr)	cm/sec = 1.74E-04		Site Specific	1.50E+01 cm/d
35.210	L - Source Length Parallel to Groundwater Flow (m)	feet = 115.62		Site Specific (m)	
3.048	d_a - Aquifer Thickness (m)		feet = 10	Site Specific (m)	
0.3	I - Infiltration Rate (m/yr)			0.3 for Illinois	
60	K_s - Saturated Hydraulic Conductivity			See Table K for Input Values	
0.700	GW_{R1} - Groundwater Remediation Objective Class 1			1	GW_{R2} - Groundwater Remediation Objective Class 2
0.073	$1/(2b+3)$ - Exponent for S20			See Table K for Input Values	
15	BW - Body Weight			Residential = 70 (carcinogenic); 15 (non-carcinogenic); Industrial/Commercial = 70; Construction Worker = 70; RBCA = 70	
114	IF_{adj} - Age Adjusted Soil Ingestion Factor for Carcinogens			114	
200	IR_{soil} - Soil Ingestion Rate			Residential = 200; Industrial/Commercial = 50; Construction Worker = 480	
2	IR_w - Daily Water Ingestion Rate			Residential = 2; Industrial/Commercial = 1	
170	S - Solubility in Water			Ethylbenzene = 169	
1.0E-06	TR - Target Cancer Risk			Residential = 10^{-6} ; Industrial/Commercial = 10^{-5} ; Construction Worker = 10^{-4} at point of human exposure	
350	EF - Exposure Frequency			Residential = 350; Industrial/Commercial = 250; Construction Worker = 30	
30	ED - Exposure Duration for Inhalation for Non-Carcinogens			Residential = 30; Industrial/Commercial = 25; Construction Worker = 1	
69.81	Q/C - Inverse of the mean concentration at the center of a square source			Residential = 69.81; Industrial/Commercial = 85.81; Construction Worker = 85.81; or Table H	
9.50E+08	T - Exposure Interval			Residential = 9.5×10^8 ; Industrial/Commercial = 7.9×10^8 ; Construction Worker = 3.6×10^8	
30	T_{MCL} - Exposure Interval for MCL Limit Volatilization Factor Equation S26			30	
70	ED_{MCL} - Exposure Duration for Migration to Groundwater Mass-Limit Equation S26			70	
0.18	h_{MCL} - Infiltration Rate for Migration to Groundwater Mass-Limit Equation S26			0.18	
0.075	D - Diffusivity in Air			Ethylbenzene = 0.075	
0.324	H' - Henry's Law Constant			Ethylbenzene = 0.323	
7.80E-03	D_w - Diffusivity in Water			Ethylbenzene = 7.8×10^{-3}	
6	AT - Average Time for Non-Carcinogens in Ingestion Equation			Residential = 6; Industrial/Commercial = 25; Construction Worker = 0.115	
30	AT - Average Time for Non-Carcinogens in Inhalation Equation			Residential = 30; Industrial/Commercial = 25; Construction Worker = 0.115	
1	THQ - Target Hazard Quotient			1	
1	RIC - Inhalation Reference Concentration			Chronic = 1; Subchronic = 9	
0.1	RfD - Oral Reference Dose			Chronic = 0.1; Subchronic = 0.05	
320.00	K_{ow} - Organic Carbon Partition Coefficient			Ethylbenzene = 363	

Residential Ingestion Remediation Objectives for Non-Carcinogenic Contaminants

$$S-1 = \frac{THQ \times BW \times AT \times 365}{10^{-6} \times (1/RfD) \times EF \times ED \times IR_{soil}} = \frac{1 \times 15 \times 6 \times 365}{0.000001 \times 1/0.1 \times 350 \times 6 \times 200} = \frac{32850}{4.2} = 7821 \text{ mg/kg}$$

Construction Worker Ingestion Remediation Objectives for Non-Carcinogenic Contaminants

$$S-1 = \frac{THQ \times BW \times AT \times 365}{10^{-6} \times (1/RfD) \times EF \times ED \times IR_{soil}} = \frac{1 \times 70 \times 0.115 \times 365}{0.000001 \times 1/0.05 \times 30 \times 1 \times 480} = \frac{2938.25}{0.288} = 10202 \text{ mg/kg}$$

Residential Inhalation Tier II Ethylbenzene Objective

$$S-4 = \frac{THQ \times AT \times 365}{EF \times ED \times (1/RIC) \times (1/VF)} = \frac{1 \times 30 \times 365}{350 \times 30 \times 1/1 \times 17412.5505} = \frac{10950}{0.6030133} = 18158.803 \text{ mg/kg}$$

Tier 2 Inhalation Objective cannot exceed Soil Saturation Limit

Residential Inhalation Objective (Carcinogen)

$$S-6 = \frac{TR \times ATc \times 365}{URF \times 1000 \times EF \times ED \times (1/VF)} = \frac{0.000001 \times 70 \times 365}{2.5E-06 \times 1000 \times 350 \times 30.0000 \times 1/17412.5505} = \frac{0.02555}{0.0015075} = 16.948 \text{ mg/kg}$$

Tier 2 Inhalation Objective does not exceed Tier 1 Objective

Construction Worker Inhalation Objective (Carcinogen)

$$S-7 = \frac{TR \times ATc \times 365}{URF \times 1000 \times EF \times ED \times (1/VF)} = \frac{0.000001 \times 70 \times 365}{2.5E-06 \times 1000 \times 30 \times 1.0000 \times 1/133.6713} = \frac{0.02555}{0.0005611} = 45.537 \text{ mg/kg}$$

Tier 2 Inhalation Objective does not exceed Tier 1 Objective

(Ethylbenzene)

Tier 2 Residential Calculations for Ethylbenzene

Maier's Grocery (Huck's)
2009-1397

Construction Worker Inhalation Objective													
S-5 =	$\frac{\text{THQ} \times \text{AT} \times 365}{\text{EF} \times \text{ED} \times (1/\text{IC} \times 1/\text{VP})}$	=	$\frac{1}{30}$	\times	$\frac{0.115}{1}$	\times	$\frac{365}{9}$	\times	$\frac{133.6713028}{1}$	=	$\frac{41.975}{0.0249368}$	=	1683.256 mg/kg
Tier 2 Inhalation Objective cannot exceed Soil Saturation Limit													

Tier 2 Residential Calculations for Ethylbenzene

Maler's Grocery (Huck's)
2005-1397

RESIDENTIAL OR COMMERCIAL

$$S-8 = VF = \frac{Q}{C} \times \frac{(3.14 \times D_A \times T)^{1/2} \times 10^{-4}}{(2 \times \rho_b \times D_A)} = 68.81 \times \left(\frac{3.14 \times 5.96E-05 \times 9.50E+08}{2 \times 1.398 \times 5.96E-05} \right)^{1/2} \times 0.0001 = \frac{2.9011}{1.67E-04} = 17412.5505$$

Construction Worker

$$S-8 = VF = \frac{Q}{C} \times \frac{(3.14 \times D_A \times T)^{1/2} \times 10^{-4}}{(2 \times \rho_b \times D_A)} = 85.81 \times \left(\frac{3.14 \times 5.96E-05 \times 3.60E+06}{2 \times 1.398 \times 5.96E-05} \right)^{1/2} \times 0.0001 = \frac{0.2227}{1.67E-04} = 1336.7130$$

Equation for Derivation of Volatilization Factor - Construction Worker

$$S-9 = VF' = \frac{VF}{10} = \frac{1336.7130}{10} = 133.6713$$

Equation for Derivation of Apparent Diffusivity

$$S-10 = D_A = \frac{(0_e^{2.33} \times D_i \times H') + (0_w^{3.20} \times D_w)}{\eta^2} \times \frac{1}{(\rho_b \times K_d) + \theta_w + (\theta_a \times H')}$$

$$= \frac{(1.54E-03 \times 0.075 \times 0.324) + (0.0188 \times 7.80E-06)}{0.1989} \times \frac{1}{(1.398 \times 2.016) + 0.30 + (0.143 \times 0.324)} = 5.96E-05$$

Soil Component of the Migration to Groundwater Cleanup Objective (Class 1)

$$S-17 = C_w \times \left[K_d + \frac{(\theta_w + \theta_a \times H')}{\rho_b} \right] = 14 \times \left[2.016 + \left(\frac{0.303 + 0.143 \times 0.324}{1.398} \right) \right] = 31.722 \text{ mg/kg}$$

Target Soil Leachate Concentration (Class 1)

$$S-18 = C_w = DF \times GW_{obj} = 20.00 \times 0.700 = 14$$

Soil-Water Partition Coefficient

$$S-19 = K_d = K_{oc} \times f_{oc} = 320.00 \times 0.006 = 2.016$$

Water-Filled Porosity

$$S-20 = \theta_w = \eta \times \frac{1}{K_c}^{(1/2)(1-\theta)} = 0.45 \times \left[\frac{0.300}{60.000} \right]^{0.072} = 0.3029$$

Air-Filled Porosity

$$S-21 = \theta_a = \eta - \theta_w = 0.45 - 0.30 = 0.1430$$

000863

Tier 2 Residential Calculations for Ethylbenzene
Maier's Grocery (Huck's)
2009-1397

Dilution Factor

$$S-22 = DF = 1 + \frac{K \times I \times d}{I \times L} = \frac{54.87 \times 0.0167 \times 6.705}{0.300 \times 35.210} + 1 = 1.5813$$

GW Ingestion

$$S-23 = \frac{TR \times BW \times A_c \times 365}{SF_a \times IR_w \times EF \times ED} = \frac{1.0E-06 \times 15 \times 0 \times 365}{0.000 \times 2.000 \times 350 \times 30} = \frac{0.0E+00}{0} = \#DIV/0! \text{ mg/L}$$

Total Soil Porosity

$$S-24 = \eta = 1 - \frac{P_b}{P_s} = 1 - \frac{1.398}{2.523} = 0.4459$$

Estimation of Mixing Zone Depth

$$S-25 = d = (0.0112 \times L^2)^{0.5} + d_e \left[1 - \exp \left(-\frac{(L \times I)}{(K \times I \times d_e)} \right) \right]$$

$$= (0.0112 \times 35.210^2)^{0.5} + 3.048 \times \left[1 - \exp \left(-\frac{35.210 \times 0.3}{54.873 \times 0.0167 \times 3.048} \right) \right] = 6.705 \text{ m}$$

Soil Saturation Limit

$$S-29 = C_{sat} = \frac{S}{P_b} \times [(K_d \times \rho_b) + \theta_w + (H' \times \theta_a)] = \frac{170}{1.398} \times [(2.016 \times 1.398) + 0.303 + (0.324 \times 0.143) \times I] = 385.20 \text{ mg/kg}$$

Soil Gas Outdoor Inhalation

$$S-30 = RO_s \text{ g} = \frac{RO_{soil} \times H \times \rho_b \times 1000}{H' \times \theta_a + \theta_w + K_d \times \rho_b} = \frac{385.200 \times 0.324 \times 1.398 \times 1000}{0.324 \times 0.143 + 0.303 + 2.016 \times 1.398} = 55,080 \text{ mg/m}^3$$

000364

Tier 2 Residential Calculations for Total Xylenes
Maier's Grocery (Huck's)
 2009-1397

SSL
 RBCA
 SSL & RBCA
 IRIS/HEAST

Date Compiled: 06/11/25

Input Values		Converted Value to be used in calculation sheet ->		USDA Soil Classification: Loam	
Rholocost's Bulk Density ->		0		FOC mg/kg (0.55 conversion) 0.000	
Organic Matter (%) ->		0		FOC conversion to g/g: 0.000	
1.398	ρ_b - Dry Soil Bulk Density			1.5 or: Gravel = 2.0; Sand = 1.8; Silt = 1.6; Clay = 1.7; or Site Specific	
2.523	ρ_s - Soil Particle Density			2.65 or: Site Specific	
0.143	θ_a - Air Filled Soil Porosity	0.143	Value from S-21	Top 1 meter = 0.25; below 1 meter = 0.15; Gravel = 0.05; Sand = 0.14; Silt = 0.24; Clay = 0.19; or Calculated Value (S21)	
0.303	θ_w - Water Filled Soil Porosity	0.303	Value from S-20	Top 1 meter = 0.15; below 1 meter = 0.30; Gravel = 0.20; Sand = 0.18; Silt = 0.16; Clay = 0.17; or Calculated Value (S20)	
0.446	η - SSL Total Soil Porosity	0.446	Value from S-24	0.43 or: Gravel = 0.25; Sand = 0.32; Silt = 0.40; Clay = 0.36; or Calculated Value (S24)	
0.01609	i - Hydraulic Gradient			Site Specific	
0.006	foe - Total Organic Carbon (g/g)			Surface Soil = 0.006; Subsurface Soil = 0.002; or Site Specific	
20.000	DF - Dilution Factor	1.587	Value from S-22	if calculated value for DF is less than 20, then 20 default is used, else calculated value is used	
6.705	d - Mixing Zone (m)	6.705	Value from S-25	2; or calculated value	
3.048	d_s - Depth of source (m)	feet = 10		Depth of Source (Vertical thickness of contamination)	
54.87	K _s - Hydraulic Conductivity (m/yr)	cm/sec = 1.74E-04		Site Specific	1.50E+01 cm/d 5.47E+03 m/yr Use cm/d for R15, R19, & R26 m/yr for R24
35.210	L - Source Length Parallel to Groundwater Flow (m)	feet = 115.52		Site Specific (m)	
3.048	d_a - Aquifer Thickness (m)	feet = 10		Site Specific (m)	
0.3	I - Infiltration Rate (m/yr)			0.3 for Illinois	
60	K _{gw} - Saturated Hydraulic Conductivity			See Table K for Input Values	
10.000	GW _{obj} - Groundwater Remediation Objective Class 1			10 GW _{obj} - Groundwater Remediation Objective Class 2	
0.073	1/(2b+3) - Exponent for S20			See Table K for Input Values	
15	BW - Body Weight			Residential = 70 (carcinogenic); 15 (non-carcinogenic); Industrial/Commercial = 70; Construction Worker = 70; RBCA = 70	
114	IF _{adj} - Age Adjusted Soil Ingestion Factor for Carcinogens			114	
200	IR _{soil} - Soil Ingestion Rate			Residential = 200; Industrial/Commercial = 50; Construction Worker = 480	
2	IR _w - Daily Water Ingestion Rate			Residential = 2; Industrial/Commercial = 1	
110	S - Solubility in Water			Total Xylenes = 188	
1.0E-06	TR - Target Cancer Risk			Residential = 10 ⁻⁶ ; Industrial/Commercial = 10 ⁻⁶ ; Construction Worker = 10 ⁻⁶ at point of human exposure	
350	EF - Exposure Frequency			Residential = 350; Industrial/Commercial = 250; Construction Worker = 30	
30	ED - Exposure Duration for Inhalation for Non-Carcinogens			Residential = 30; Industrial/Commercial = 25; Construction Worker = 1	
68.81	Q/C - Inverse of the mean concentration at the center of a square source			Residential = 68.81; Industrial/Commercial = 85.81; Construction Worker = 85.81; or Table H	
9.50E+08	T - Exposure Interval			Residential = 9.5 x 10 ⁸ ; Industrial/Commercial = 7.9 x 10 ⁸ ; Construction Worker = 3.6 x 10 ⁸	
30	T _{MLL} - Exposure Interval for Moll Limit Volatilization Factor Equation S26			30	
70	ED _{MLL} - Exposure Duration for Migration to Groundwater Mass-Limit Equation S26			70	
0.18	i _{MLL} - Infiltration Rate for Migration to Groundwater Mass-Limit Equation S26			0.18	
0.074	D _a - Diffusivity in Air			Total Xylenes = 0.072	
0.271	H' - Henry's Law Constant			Total Xylenes = 0.25	
9.23E-08	D _w - Diffusivity in Water			Total Xylenes = 9.34 x 10 ⁻⁸	
6	AT - Average Time for Non-Carcinogens in Ingestion Equation			Residential = 6; Industrial/Commercial = 25; Construction Worker = 0.115	
30	AT - Average Time for Non-Carcinogens in Inhalation Equation			Residential = 30; Industrial/Commercial = 25; Construction Worker = 0.115	
1	THQ - Target Hazard Quotient			1	
0.1	IRIC - Inhalation Reference Concentration			Chronic = 0.1; Subchronic = 0.4	
0.2	IRD - Oral Reference Dose			Chronic = 0.2; Subchronic = 0.4	
358.00	K _{ow} - Organic Carbon Partition Coefficient			Total Xylenes = 260	

Residential Ingestion Remediation Objectives for Non-Carcinogenic Contaminants

$$S-1 = \frac{THQ \times BW \times AT \times 365}{10^{-6} \times (1/IRD_o) \times EF \times ED \times IR_{soil}} = \frac{1 \times 15 \times 6 \times 365}{0.000001 \times 1/0.2 \times 350 \times 1 \times 200} = \frac{32850}{2.1} = 15643 \text{ mg/kg}$$

Construction Worker Ingestion Remediation Objectives for Non-Carcinogenic Contaminants

$$S-1 = \frac{THQ \times BW \times AT \times 365}{10^{-6} \times (1/IRD_o) \times EF \times ED \times IR_{soil}} = \frac{1 \times 70 \times 0.115 \times 365}{0.000001 \times 1/0.4 \times 30 \times 1 \times 480} = \frac{2938.25}{0.036} = 81618 \text{ mg/kg}$$

Inhalation Non-Carcinogenic Residential, Ind/Commercial

$$S-4 = \frac{THQ \times AT \times 365}{EF \times ED \times (1/IRIC \times 1/VP)} = \frac{1 \times 30 \times 365}{350 \times 30 \times 1/0.1 \times 21176.62485} = \frac{10950}{4.9582973} = 2208.419 \text{ mg/kg}$$

Tier 2 Inhalation Objective cannot exceed Soil Saturation Limit

Inhalation Non-Carcinogenic Construction Worker

$$S-5 = \frac{THQ \times AT \times 365}{EF \times ED \times (1/IRIC \times 1/VP)} = \frac{1 \times 0.115 \times 365}{30 \times 1 \times 1/0.4 \times 112.5670522} = \frac{41.975}{0.4613481} = 90.983 \text{ mg/kg}$$

(Xylenes)

Tier 2 Residential Calculations for Total Xylenes

Maier's Grocery (Huck's)
2009-1397

RESIDENTIAL OR COMMERCIAL

$$S-8 = VF = \frac{Q}{C} \times \frac{(3.14 \times D_A \times T)^{1/2} \times 10^{-4}}{(2 \times \rho_b \times D_A)} = 68.81 \times \left(\frac{3.14 \times 4.03E-05 \times 9.50E+08}{2 \times 1.398 \times 4.03E-05} \right)^{1/2} \times 0.0001 = \frac{2.3854}{1.13E-04} = 21176.6247$$

Construction Worker

$$S-8 = VF = \frac{Q}{C} \times \frac{(3.14 \times D_A \times T)^{1/2} \times 10^{-4}}{(2 \times \rho_b \times D_A)} = 85.81 \times \left(\frac{3.14 \times 4.03E-05 \times 3.60E+06}{2 \times 1.398 \times 4.03E-05} \right)^{1/2} \times 0.0001 = \frac{0.1831}{1.13E-04} = 1625.6705$$

Equation for Derivation of Volatilization Factor - Construction Worker

$$S-9 = VF' = \frac{VF}{10} = \frac{1625.6705}{10} = 162.5671$$

Equation for Derivation of Apparent Diffusivity

$$S-10 = D_A = \frac{(\theta_a^{3/3} \times D_i \times H') + (\theta_w^{3/3} \times D_w)}{\eta^2} \times \frac{1}{(\rho_b \times K_d) + \theta_w + (\theta_a \times H')}$$

$$= \frac{(1.54E-03 \times 0.074 \times 0.271) + (0.0188 \times 9.23E-06)}{0.1989} \times \frac{1}{(1.398 \times 2.5074) + 0.30 + (0.143 \times 0.271)} = 4.03E-05$$

Soil Component of the Migration to Groundwater Cleanup Objective (Class 1)

$$S-17 = C_w \times \left[K_d + \frac{(\theta_w + \theta_a \times H')}{\rho_b} \right] = 200 \times \left[2.5074 + \left(\frac{0.303 + 0.143 \times 0.271}{1.398} \right) \right] = 550.372 \text{ mg/kg}$$

Tier 2 Soil Component of GW Ingestion Objective cannot exceed Soil Saturation Limit

Target Soil Leachate Concentration (Class 1)

$$S-18 = C_w = DF \times GW_{obj} = 20.00 \times 10.000 = 200$$

Soil-Water Partition Coefficient

$$S-19 = K_d = K_{oc} \times f_{oc} = 398.00 \times 0.006 = 2.5074$$

Water-Filled Porosity

$$S-20 = \theta_w = \eta \times \frac{1}{K_s}^{(1/2b-3)} = 0.45 \times \left[\frac{0.300}{60.000} \right]^{0.073} = 0.3029$$

Air-Filled Porosity

$$S-21 = \theta_a = \eta - \theta_w = 0.45 - 0.30 = 0.1430$$

000000

Tier 2 Residential Calculations for Total Xylenes
 Mair's Grocery (Huck's)
 2009-1397

Dilution Factor	
S-22 = DF =	$1 + \frac{K \times I \times d}{I \times L} = \frac{54.87 \times 0.0167 \times 6.705}{0.300 \times 35.210} + 1 = 1.5813$
GW Ingestion	
S-23 =	$\frac{TR \times BW \times AL_e \times 365}{SF_e \times IR_{gw} \times EF \times ED} = \frac{1.0E-06 \times 15 \times 0 \times 365}{0.000 \times 2.000 \times 350 \times 30} = \frac{0.0E+00}{0} = \text{\#DIV/0!} \text{ mg/L}$
Total Soil Porosity	
S-24 = $\eta =$	$1 - \frac{P_b}{P_s} = 1 - \frac{1.398}{2.523} = 0.4459$
Estimation of Mixing Zone Depth	
S-25 = $d =$	$(0.0112 \times L^2)^{0.5} + d_o \left[1 - \exp \left(\frac{-L \times I}{(K \times I \times d_o)} \right) \right]$ $= (0.0112 \times 35.210^2)^{0.5} + 3.048 \left[1 - \exp \left(\frac{-35.210 \times 0.3}{54.873 \times 0.0167 \times 3.048} \right) \right] = 6.705 \text{ m}$
Soil Saturation Limit	
S-29 = $C_{sat} =$	$\frac{S}{P_b} \times [(K_d \times pb) + Gw + (H' \times Ga)] = \frac{110}{1.398} \times [(2.5074 \times 1.398) + 0.303 + (0.271 \times 0.143)] = 302.70 \text{ mg/kg}$
Soil Gas Outdoor Inhalation	
S-30 = $RO_g =$	$\frac{RO_{soil} \times H \times pb \times 1000}{H' \times Ga + Gw + Kd \times pb} = \frac{90.983 \times 0.271 \times 1.398 \times 1000}{0.271 \times 0.143 + 0.303 + 2.507 \times 1.398} = 8,960 \text{ mg/m}^3$

000867

Tier 2 Residential Calculations for MTBE
Maier's Grocery (Huck's)
 2009-1397

SSL
RBCA

SSL & RBCA
IRIS/HEAST

Date Compiled: 06/11/25

Input Values		Converted Value to be used in calculation sheet ->		USDA Soil Classification: Loam	
Holcomb's Bulk Density ->		0			
Organic Matter (%) ->		0	FOC % (0.68 conversion) ->	0.000	Organic Matter (mg/kg)
				0	FOC mg/kg (0.68 conversion) ->
					0.000
					for conversion to g/g: 0.000
1.398	ρ_b - Dry Soil Bulk Density			1.5 or: Gravel = 2.0; Sand = 1.6; Silt = 1.6; Clay = 1.7; or Site Specific	
2.523	ρ_s - Soil Particle Density			2.65 or: Site Specific	
0.143	θ_a - Air Filled Soil Porosity	0.143	Value from S-21	Top 1 meter = 0.28; below 1 meter = 0.13; Gravel = 0.05; Sand = 0.14; Silt = 0.24; Clay = 0.19; or Calculated Value (S21)	
0.303	θ_w - Water Filled Soil Porosity	0.303	Value from S-20	Top 1 meter = 0.15; below 1 meter = 0.30; Gravel = 0.20; Sand = 0.18; Silt = 0.16; Clay = 0.17; or Calculated Value (S20)	
0.446	θ - SSL & θ_a - RBCA Total Soil Porosity	0.446	Value from S-24	0.43 or: Gravel = 0.25; Sand = 0.32; Silt = 0.40; Clay = 0.36; or Calculated Value (S24)	
0.01669	i - Hydraulic Gradient			Site Specific	
0.006	foe - Total Organic Carbon (g/g)			Surface Soil = 0.006; Subsurface Soil = 0.002; or Site Specific	
20,000	DF - Dilution Factor	1.581	Value from S-22	if calculated value for DF is less than 20, then 20 default is used, else calculated value is used	
6.705	d - Mixing Zone (m)	6.705	Value from S-25	2; or calculated value	
3.048	d_s - Depth of source (m)		feet = 10	Depth of Source (Vertical thickness of contamination)	
64.87	K - Hydraulic Conductivity (m/yr)		cm/sec = 1.74E-04	Site Specific	1.50E+01 cm/d; 5.49E+03 cm/yr; Use cm/d for R15, R19, & R26; cm/yr for R24
35,210	L - Source Length Parallel to Groundwater Flow (m)		feet = 115.52	Site Specific (m)	
3.048	d_a - Aquifer Thickness (m)		feet = 10	Site Specific (m)	
0.3	i - Infiltration Rate (m/yr)			0.3 for Illinois	
60	K_s - Saturated Hydraulic Conductivity			See Table K for Input Values	
0.070	GW_{RLO} - Groundwater Remediation Objective Class 1			0.07	GW_{RLO} - Groundwater Remediation Objective Class 2
0.073	1/(2b+3) - Exponent for S20			See Table K for Input Values	
15	BW - Body Weight			Residential = 70 (carcinogenic); 15 (non-carcinogenic); Industrial/Commercial = 70; Construction Worker = 70; RBCA = 70	
114	IR_{adj} - Age Adjusted Soil Ingestion Factor for Carcinogens			114	
200	IR_{soil} - Soil Ingestion Rate			Residential = 200; Industrial/Commercial = 50; Construction Worker = 480	
2	IR_{water} - Daily Water Ingestion Rate			Residential = 2; Industrial/Commercial = 1	
51000	S - Solubility in Water			MTBE = 51,000	
1.0E-06	TR - Target Cancer Risk			Residential = 10^{-6} ; Industrial/Commercial = 10^{-5} ; Construction Worker = 10^{-5} at point of human exposure	
350	EF - Exposure Frequency			Residential = 350; Industrial/Commercial = 250; Construction Worker = 30	
30	ED - Exposure Duration for Inhalation for Non-Carcinogens			Residential = 30; Industrial/Commercial = 25; Construction Worker = 1	
63.81	Q/C - Inverse of the mean concentration at the center of a square source			Residential = 63.81; Industrial/Commercial = 85.81; Construction Worker = 85.81; or Table H	
9.50E+05	T - Exposure Interval			Residential = 6.5×10^5 ; Industrial/Commercial = 7.9×10^5 ; Construction Worker = 3.6×10^5	
30	T_{ML} - Exposure Interval for Moll Limit Volatilization Factor Equation S26			30	
70	ED_{ML} - Exposure Duration for Migration to Groundwater Mass-Limit Equation S26			70	
0.18	i_{ML} - Infiltration Rate for Migration to Groundwater Mass-Limit Equation S26			0.18	
0.102	D_a - Diffusivity in Air			MTBE = 0.102	
0.0241	H' - Henry's Law Constant			MTBE = 0.0241	
1.10E-03	D_w - Diffusivity in Water			MTBE = 1.1×10^{-3}	
6	AT - Average Time for Non-Carcinogens in Ingestion Equation			Residential = 6; Industrial/Commercial = 25; Construction Worker = 0.115	
30	AT - Average Time for Non-Carcinogens in Inhalation Equation			Residential = 30; Industrial/Commercial = 25; Construction Worker = 0.115	
1	THQ - Target Hazard Quotient			1	
3	IRC - Inhalation Reference Concentration			Chronic = 3; Subchronic = 2.5	
0.01	RfD - Oral Reference Dose			Chronic = 0.01; Subchronic = 0.3	
10.00	K_{oc} - Organic Carbon Partition Coefficient			MTBE = 11.5	

Residential Ingestion Remediation Objectives for Non-Carcinogenic Contaminants

$$S-1 = \frac{THQ \times BW \times AT \times 365}{10^{-6} \times (1/RfD_o) \times EF \times ED \times IR_{soil}} = \frac{1 \times 15 \times 6 \times 365}{0.000001 \times 1/0.01 \times 350 \times 6 \times 200} = \frac{32850}{42} = 782 \text{ mg/kg}$$

Construction Worker Ingestion Remediation Objectives for Non-Carcinogenic Contaminants

$$S-1 = \frac{THQ \times BW \times AT \times 365}{10^{-6} \times (1/RfD_o) \times EF \times ED \times IR_{soil}} = \frac{1 \times 70 \times 0.115 \times 365}{0.000001 \times 1/0.3 \times 30 \times 1 \times 480} = \frac{2938.25}{0.048} = 61214 \text{ mg/kg}$$

Residential Inhalation

$$S-4 = \frac{THQ \times AT \times 365}{EF \times ED \times (1/IRC \times 1/VF)} = \frac{1 \times 30 \times 365}{350 \times 30 \times 1/3 \times 18851.0713} = \frac{10950}{0.185666} = 58976.923 \text{ mg/kg}$$

Tier 2 Inhalation Objective cannot exceed Soil Saturation Limit

Inhalation Non-Carcinogenic Construction Worker

$$S-5 = \frac{THQ \times AT \times 365}{EF \times ED \times (1/IRC \times 1/VF)} = \frac{1 \times 0.115 \times 365}{30 \times 1 \times 1/2.5 \times 144,7144} = \frac{41.975}{0.082922} = 506.199 \text{ mg/kg}$$

898000

(MTBE)

Tier 2 Residential Calculations for MTBE

Mater's Grocery (Huck's)

2009-1397

RESIDENTIAL OR COMMERCIAL

$$S-8 = VF = \frac{Q}{C} \times \frac{(3.14 \times D_A \times T)^{1/2} \times 10^{-4}}{(2 \times \rho_b \times D_A)} = 68.81 \times \left(\frac{3.14 \times 5.08E-05 \times 9.50E+08}{2 \times 1.398 \times 5.08E-05} \right)^{1/2} \times 0.0001 = \frac{2.6797}{1.42E-04} = 18851.0713$$

Construction Worker

$$S-8 = VF = \frac{Q}{C} \times \frac{(3.14 \times D_A \times T)^{1/2} \times 10^{-4}}{(2 \times \rho_b \times D_A)} = 85.81 \times \left(\frac{3.14 \times 5.08E-05 \times 3.60E+06}{2 \times 1.398 \times 5.08E-05} \right)^{1/2} \times 0.0001 = \frac{0.2057}{1.42E-04} = 1447.1443$$

Equation for Derivation of Volatilization Factor - Construction Worker

$$S-9 = VF' = \frac{VF}{10} = \frac{1447.1443}{10} = 144.7144$$

Equation for Derivation of Apparent Diffusivity

$$S-10 = D_A = \frac{(\theta_w^{2.23} \times D_s \times H') + (\theta_w^{2.23} \times D_w)}{\eta^2} \times \frac{1}{(\rho_b \times K_d) + \theta_w + (\theta_a \times H')}$$

$$= \frac{(1.54E-03 \times 0.102 \times 0.024) + (0.0188 \times 1.10E-05)}{0.1989} \times \frac{1}{(1.398 \times 0.063) + 0.30 + (0.143 \times 0.024)} = 5.08E-05$$

Soil Component of the Migration to Groundwater Cleanup Objective (Class 1)

$$S-17 = C_w \times \left[K_d + \frac{(\theta_w + \theta_a \times H')}{\rho_b} \right] = 1.4 \times \left[0.063 + \left(\frac{0.303 + 0.143 \times 0.024}{1.398} \right) \right] = 0.395 \text{ mg/kg}$$

Target Soil Leachate Concentration (Class 1)

$$S-18 = C_w = DF \times GW_{obj} = 20.00 \times 0.070 = 1.4$$

Soil-Water Partition Coefficient

$$S-19 = K_d = K_{oc} \times f_{oc} = 10.00 \times 0.006 = 0.063$$

Water-Filled Porosity

$$S-20 = \theta_w = \eta \times \frac{1}{K_s}^{1/(2n-2)} = 0.45 \times \left[\frac{0.300}{60.000} \right]^{0.073} = 0.3029$$

Air-Filled Porosity

$$S-21 = \theta_a = \eta - \theta_w = 0.45 - 0.30 = 0.1430$$

698000

Tier 2 Residential Calculations for MTBE
 Maler's Grocery (Huck's)
 .2009-1397

Dilution Factor

$$\text{S-22} = \text{DF} = 1 + \frac{K \times I \times d}{I \times L} = \frac{54.87}{0.300} \times \frac{0.0167}{35.210} \times \frac{6.705}{1} + 1 = 1.5813$$

GW Ingestion

$$\text{S-23} = \frac{\text{TR} \times \text{BW} \times \text{AL}_c \times 365}{\text{SF}_c \times \text{IR}_w \times \text{EF} \times \text{ED}} = \frac{1.0\text{E-}06 \times 15 \times 0 \times 365}{0.000 \times 2.000 \times 350 \times 30} = \frac{0.0\text{E}+00}{0} = \text{\#DIV/0!} \text{ mg/L}$$

Total Soil Porosity

$$\text{S-24} = \eta = 1 - \frac{P_b}{P_n} = 1 - \frac{1.398}{2.523} = 0.4459$$

Estimation of Mixing Zone Depth

$$\text{S-25} = d = (0.0112 \times L^2)^{0.5} + d_s \left[1 - \exp \left(\frac{-L \times \pi}{(K \times I \times d_s)} \right) \right]$$

$$= (0.0112 \times 35.210^2)^{0.5} + 3.048 \times \left[1 - \exp \left(\frac{-35.210 \times \pi}{54.873 \times 3.048} \right) \right] = 6.705 \text{ m}$$

Soil Saturation Limit

$$\text{S-29} = C_{sat} = \frac{S}{P_b} \times [(K_d \times pb) + \theta_w + (H' \times \theta_a)] = \frac{51000}{1.398} \times [(0.063 \times 1.398) + 0.303 + (0.024 \times 0.143)] = 14,392.37 \text{ mg/kg}$$

Soil Gas Outdoor Inhalation

$$\text{S-30} = \text{RO}_s \text{ g} = \frac{\text{RO}_{soil} \times H \times pb \times 1000}{H' \times \theta_a + \theta_w + K_d \times pb} = \frac{506.199 \times 0.024 \times 1.398 \times 1000}{0.024 \times 0.143 + 0.303 + 0.063 \times 1.398} = 43,229 \text{ mg/m}^3$$

000870

Maier's Grocery (Huck's)
2009-1397

Appendix C - Table K
Parameter Estimates for Calculating Water - Filled Soil Porosity (O_w)

Soil Texture	Saturated Hydraulic Conductivity (Ks) (m/yr)	1/ (2b+3)
Sand	1830	0.09
Loamy Sand	540	0.085
Sandy Loam	230	0.08
Silt Loam	120	0.074
Loam	60	0.073
Sandy Clay Loam	40	0.058
Silt Clay Loam	13	0.054
Clay Loam	20	0.05
Sandy Clay	10	0.042
Silt Clay	8	0.042
Clay	5	0.039

Version: 3/26/2018



EPA On-line Tools for Site Assessment Calculation

Hydraulic Gradient – Magnitude and Direction

Gradient Calculation from fitting a plane to as many as thirty points

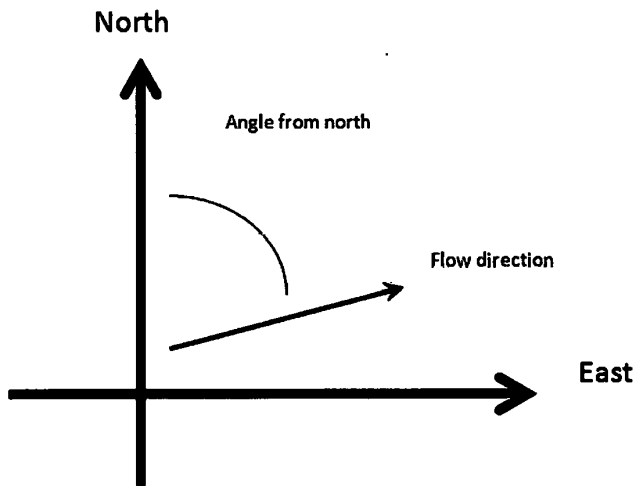
$$\begin{aligned}
 a x_1 + b y_1 + c &= h_1 \\
 a x_2 + b y_2 + c &= h_2 \\
 a x_3 + b y_3 + c &= h_3 \\
 &\dots \\
 a x_{30} + b y_{30} + c &= h_{30}
 \end{aligned}$$

where (x_i, y_i) are the coordinates of the well and h_i is the head

$i = 1, 2, 3, \dots, 30$

The coefficients a , b , and c are calculated by a least-squares fitting of the the data to a plane

The gradient is calculated from the square root of $(a^2 + b^2)$ and the angle from the arclangent of a/b or b/a depending on the quadrant



Inputs

Site Name

Date

Calculation basis

Coordinates

I.D.	x-coordinate	y-coordinate	head ft <input type="button" value="v"/>
1) MW-1	3388	1178	92.43
2) MW-2	3417	1115	93.2
3) MW-3	3385	1084	93.09
4) MW-6	3498	1127	94.33
5) MW-8	3338	1085	93.28
6) MW-9	6406	1086	93.09
7) MW-10	3440	1086	94.37
8) MW-11	3339	1142	91.8
9) MW-12	3339	1171	91.83
10)			
11)			
12)			
13)			
14)			
15)			
16)			

6/11/25, 9:24 AM

- 17)
- 18)
- 19)
- 20)
- 21)
- 22)
- 23)
- 24)
- 25)
- 26)
- 27)
- 28)
- 29)
- 30)

Results

Number of Points Used in Calculation	9
Max. Difference Between Head Values	0.7833
Gradient Magnitude (i)	0.01669
Flow direction as degrees from North (positive y axis)	0.5397
Coefficient of Determination (R^2)	0.409

WCMS

Last updated on 8/31/2021

Bouwer & Rice Method
Version 2.00
6/18/1995

Notice to users: Each user will determine the accuracy of this program and its suitability to a particular purpose before basing any decisions upon program results. All risks of such decisions will be borne by the user. Please notify CSA of any suspected errors in the program.

©Creative Scientific Applications

Calculation Status

	Automatic Calculation	
--	-----------------------	--

Bouwer & Rice Method for Calculating Hydraulic Conductivity

Project Name: Harry Kingery

Project No.: 1992-3627

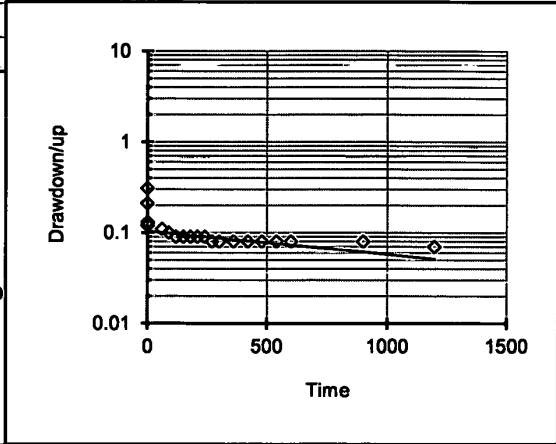
Client Name: Harry Kingery

Identification: MW-10

Analysis By: MAB

Run Date: 10/23/2012

Riser Pipe Diameter:	0.1667 feet
Intake Diameter:	0.604 feet
Intake Length:	10 feet
Saturated Column Length:	9.58 feet
Water Table Depth:	8.56 feet
Aquifer Thickness:	10 feet
Line Fit Starting No.:	4 Min 1 to
Line Fit Ending No.:	18 Max 20
Specify Output Units:	7 1 to 9
Hyd. Cond., K(h):	1.56E-05 cm./sec.
Error of Fit:	0.072



Meas. #	Time seconds	Field Meas. feet	Drawdown/up feet	Line Fit To LN(Yt)	Regression On LN(Yt)
1)	0.33	8.25	0.31	-1.171	-2.267
2)	0.50	8.35	0.21	-1.561	-2.267
3)	0.67	8.43	0.13	-2.040	-2.267
4)	0.83	8.44	0.12	-2.120	-2.267
5)	60.00	8.45	0.11	-2.207	-2.302
6)	90.00	8.46	0.10	-2.303	-2.319
7)	120.00	8.47	0.09	-2.408	-2.337
8)	150.00	8.47	0.09	-2.408	-2.354
9)	180.00	8.47	0.09	-2.408	-2.372
10)	210.00	8.47	0.09	-2.408	-2.389
11)	240.00	8.47	0.09	-2.408	-2.407
12)	270.00	8.48	0.08	-2.526	-2.424
13)	300.00	8.48	0.08	-2.526	-2.442
14)	360.00	8.48	0.08	-2.526	-2.477
15)	420.00	8.48	0.08	-2.526	-2.512
16)	480.00	8.48	0.08	-2.526	-2.547
17)	540.00	8.48	0.08	-2.526	-2.582
18)	600.00	8.48	0.08	-2.526	-2.617

19)	900.00	8.48	0.08		-2.526	-2.792
20)	1200.00	8.49	0.07		-2.659	-2.968

CW³M Company, Inc.
Corrective Action Plan and Budget
Huck's #131 / Maier's Grocery
LPC #1930155021—Incident Number 2009-1397

APPENDIX E

SUMMARY OF ANALYTICAL RESULTS

**CORRECTIVE ACTION PLAN AND BUDGET
HUCK'S #131 – MAIER'S GROCERY
CROSSVILLE, ILLINOIS**

**Maiers Grocery
Site Assessment Data**

EA - SOIL

	Location	1	2	3	4	5	6	7	8	9	10	11
	Date	1/28/2010	1/28/2010	1/28/2010	1/28/2010	1/28/2010	1/28/2010	1/28/2010	1/28/2010	1/28/2010	1/28/2010	1/28/2010
	Depth	6'	6'	6'	13'	13'	13'	13'	13'	13'	6'	6'
Parameter	Class I CUO				6'							
Benzene	0.03	0.0052	0.0074	0.0055	0.0032	0.0027	0.0017	0.0072	0.016	<0.00032	0.032	1.9
Ethylbenzene	13.0	0.0046	0.0042	0.011	0.0014	0.00046	0.00041	<0.00023	<0.00023	<0.00023	0.046	20.
Toluene	12.0	0.011	0.011	0.051	0.0080	0.0029	0.0025	<0.0012	<0.0012	<0.0012	0.021	<2.1
Total Xylenes	5.6	0.0097	0.0091	0.051	0.0068	0.0024	0.0021	<0.00046	<0.00046	<0.00046	0.16	95.
MTBE	0.32	0.00062	<0.00028	<0.00028	<0.00028	0.0067	0.00072	0.004	0.0025	0.0022	0.0079	<0.47
Lead	0.0075	10.	6.3	19.	11.	12.	7.1	8.5	14.	10.	16.	8.7
TCLP lead	0.0075	0.026	0.019	0.016	<0.0075	<0.0075	<0.0075	0.011	0.03	<0.0075	0.023	0.018
Numbers not bold indicate actual quantities, but are below the TACO Tier 1 Most Stringent Soil Clean-up Objective.												
BOLD & SHADING -- Exceeds the TACO Tier 1 Most Stringent Soil Clean-up Objective.												
Results are in mg/Kg												

**Maiers Grocery
Site Assessment Data**

EA - SOIL

	Location	12	13	14	15	16	17	18	19
	Date	1/28/2010	1/28/2010	1/28/2010	1/28/2010	1/28/2010	1/28/2010	1/28/2010	1/28/2010
	Depth	6'	6'	6'	6'	6'	3'	3'	3'
Parameter	Class I CUO								
Benzene	0.03	<0.00032	0.096	<0.00032	0.0009	0.00095	0.026	0.037	0.11
Ethylbenzene	13.0	<0.00023	<0.0090	<0.00023	<0.00023	0.0019	0.024	0.0032	0.019
Toluene	12.0	<0.0012	<0.048	<0.0012	<0.0012	0.003	0.071	0.0032	0.049
Total Xylenes	5.6	<0.00046	<0.018	<0.00046	<0.00046	0.01	0.01	0.032	0.077
MTBE	0.32	<0.00028	<0.011	<0.00028	<0.00028	<0.00028	<0.00028	<0.00028	<0.00028
Lead	0.0075	10.	15.	13.	12.	12.	17.	16.	15.
TCLP lead	0.0075	0.018	0.02	0.0088	0.0084	0.0089	0.024	0.012	0.019
Numbers not bold indicate actual quantities, but									
BOLD & SHADING -- Exceeds the TACO Ti									
Results are in mg/Kg									

**Huck's #131 / Maiers Grocery
Site Assessment Data**

Soil AET(6-2-10)

	Location	B-1	B-1	B-1	B-2	B-2	B-2	B-3	B-3	B-3
	Date	6/2/2010	6/2/2010	6/2/2010	6/2/2010	6/2/2010	6/2/2010	6/2/2010	6/2/2010	6/2/2010
	Depth	2.5'	7.5'	12'	2.5'	7.5'	10'	2.5'	7.5'	10'
Parameter	Class I CUO									
Benzene	0.03	0.0029	0.0069	0.0024	<0.00042	0.12	0.0016	0.002	0.006	0.0035
Ethylbenzene	13.0	0.0012	0.0055	0.0019	<0.00032	0.022	0.00048	0.0005	0.0047	0.0026
Toluene	12.0	0.0046	0.015	0.0057	<0.00033	0.0075	0.0018	0.00043	0.00057	0.0012
Total Xylenes	5.6	0.0024	0.012	0.0031	<0.00048	0.044	0.0011	0.0015	0.0077	0.0048
MTBE	0.32	<0.00036	<0.00036	<0.00036	<0.00036	<0.00036	0.0021	0.0037	0.002	<0.002
Lead TCLP	0.0075	<0.0075	<0.0075	<0.0075	<0.0075	<0.0075	<0.0075	<0.0075	<0.0075	<0.0075
Numbers not bold indicate actual quantities, but are below the TACO Tier 1 Most Stringent Soil Clean-up Objective.										
BOLD & SHADING -- Exceeds the TACO Tier 1 Most Stringent Soil Clean-up Objective.										
Results are in mg/Kg										

**Huck's #131 / Maiers Grocery
Site Assessment Data**

Soil AET(6-2-10)

	Location	B-4	B-4	B-4	B-5	B-5
	Date	6/2/2010	6/2/2010	6/2/2010	6/2/2010	6/2/2010
	Depth	2.5'	7.5'	10'	2.5'	7.5'
Parameter	Class I CUO					
Benzene	0.03	<0.00042	0.0018	0.0016	<0.00042	0.0029
Ethylbenzene	13.0	<0.00032	0.0015	0.0014	<0.00032	0.0031
Toluene	12.0	<0.00033	0.0042	0.0037	<0.00033	0.0065
Total Xylenes	5.6	<0.00048	0.0031	0.0026	<0.00048	0.0065
MTBE	0.32	<0.002	<0.002	<0.002	<0.002	0.00064
Lead TCLP	0.0075	<0.0075	<0.0075	0.018	<0.0075	<0.0075
Numbers not bold indicate actual quantities, but						
BOLD & SHADING -- Exceeds the TACO Ti						
Results are in mg/Kg						

**Huck's #131 / Maiers Grocery
Site Assessment Data**

Soil 11-21-11

	Location	B-6	B-6	B-8	B-8	B-9	B-9	B-10	B-10
	Date	11/21/2021	11/21/2021	11/21/2021	11/21/2021	11/21/2021	11/21/2021	11/21/2021	11/21/2021
	Depth	2.5'	7.5'	2.5'	7.5'	2.5'	7.5'	2.5'	7.5'
Parameter	Class I CUO								
Benzene	0.03	<0.00514	<0.00464	<0.00520	<0.00657	<0.00502	<0.00509	<0.00577	<0.00532
Ethylbenzene	13.0	<0.00514	<0.00464	<0.00520	<0.00657	<0.00502	<0.00509	<0.00577	<0.00532
Toluene	12.0	<0.00514	0.00501	<0.00520	0.012	<0.00502	0.00751	<0.00577	0.00905
Total Xylenes	5.6	<0.0154	<0.0139	<0.0156	<0.0197	<0.0151	<0.0153	<0.0173	<0.0160
MTBE	0.32	<0.00514	<0.00464	<0.00520	<0.00657	<0.00502	<0.00509	<0.00577	<0.00532
Lead TCLP	0.0075	0.009	<0.00750	<0.00750	<0.00750	<0.00750	<0.00750	<0.00750	<0.00750
Numbers not bold indicate actual quantities, but are below the TACO Tier 1 Most Stringent Soil Clean-up Objective.									
BOLD & SHADING -- Exceeds the TACO Tier 1 Most Stringent Soil Clean-up Objective.									
Results are in mg/Kg									

**Huck's #131 / Maiers Grocery
Site Assessment Data**

Soil 11-21-11

	Location	B-11	B-11	B-12	B-12
	Date	11/21/2021	11/21/2021	11/21/2021	11/21/2021
	Depth	2.5'	7.5'	2.5'	7.5'
Parameter	Class I CUO				
Benzene	0.03	<0.00534	<0.00539	<0.00525	<0.00569
Ethylbenzene	13.0	<0.00534	<0.00539	<0.00525	<0.00569
Toluene	12.0	<0.00534	0.00750	<0.00525	0.0107
Total Xylenes	5.6	<0.0160	<0.0162	<0.0158	<0.0171
MTBE	0.32	<0.00534	<0.00539	<0.00525	<0.00569
Lead TCLP	0.0075	<0.00750	<0.00750	<0.00750	<0.00750
Numbers not bold indicate actual quantities, but					
BOLD & SHADING -- Exceeds the TACO Ti					
Results are in mg/Kg					

**Huck's #131 / Maiers Grocery
Site Assessment Data**

Lead 8-15-13

	Location	L-1	L-1	L-2	L-2	L-3	L-3
	Date	8/15/2013	8/15/2013	8/15/2013	8/15/2013	8/15/2013	8/15/2013
	Depth	2.5'	7.5'	2.5'	7.5'	2.5'	7.5'
Parameter	Class I CUO						
Lead TCLP	0.0075	<0.0067	0.0071	<0.0067	<0.0067	<0.0067	0.0083
Numbers not bold indicate actual quantities, but are below the TACO Tier 1 Most Stringent Soil Clean-up Objective.							
BOLD & SHADING -- Exceeds the TACO Tier 1 Most Stringent Soil Clean-up Objective.							
Results are in mg/Kg							

**Huck's #131 / Maiers Grocery
Site Assessment Data**

Lead 11-18-13

	Location	L-4	L-4	L-5	L-5		
	Depth	2.5'	7.5'	2.5'	7.5'		
Parameter	Class I CUO						
Lead TCLP	0.0075	<0.0067	<0.0067	<0.0067	<0.0067		
Numbers not bold indicate actual quantities, but are below the TACO Tier 1 Most Stringent Soil Clean-up Objective.							
BOLD & SHADING -- Exceeds the TACO Tier 1 Most Stringent Soil Clean-up Objective.							
Results are in mg/Kg							

**Huck's Maiers Grocery
Site Assessment Data**

Groundwater AET(6-30-10)

	Location	MW-1	MW-2	MW-3	MW-4	MW-5
	Date	6/30/2010	6/30/2010	6/30/2010	6/30/2010	6/30/2010
Parameter	Class I CUO					
Benzene	0.005	0.00015	0.022	0.27	0.0018	0.0086
Ethylbenzene	0.7	0.00022	0.0048	0.15	0.00044	0.0037
Toluene	1.0	<0.00021	0.0031	0.020	<0.00021	0.00036
Total Xylenes	10.0	<0.00043	0.0087	0.19	0.0023	0.013
MTBE	0.1	0.018	0.04	0.12	0.044	0.034
Lead TCLP	0.0075	<0.0075	<0.0075	<0.0075	<0.0075	<0.0075
Exceeds Tier 1 Class I COUs						
values in mg/L						

**Huck's #131 / Maier's Grocery
Site Assessment Data**

Stage 2/3 - Groundwater

	Location	MW-6	MW-8	MW-9	MW-10	MW-11	MW-12
	Date	1/26/2012	1/26/2012	1/26/2012	1/26/2012	1/26/2012	1/26/2012
Parameter	Class I CUO						
Benzene	0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Ethylbenzene	0.7	0.155	<0.005	<0.005	0.086	<0.005	<0.005
Toluene	1.0	0.356	<0.005	<0.005	0.111	0.00544	<0.005
Total Xylenes	10.0	0.741	<0.015	<0.015	0.242	0.0150	<0.015
Exceeds Tier 1 Class I COUs							
values in mg/L							

Site	Maier's Grocery
Sample ID	TACO-1
Date	8/15/2013
FOC	0.0063 g/g
Gravel	0.1%
Sand	49.1%
Silt	42.2%
Clay	8.6%
Bulk Density	1.398 gm/cm³
Percent Moisture	23.00%
Specific Gravity	2.523 g/cm³

APPENDIX F

CORRECTIVE ACTION BUDGET

**CORRECTIVE ACTION PLAN AND BUDGET
HUCK'S #131 – MAIER'S GROCERY
CROSSVILLE, ILLINOIS**



Illinois Environmental Protection Agency

2520 West Iles Avenue • P.O. Box 19276 • Springfield • Illinois • 62794-9276 • (217) 782-3397

General Information for the Budget and Billing Forms

LPC #: 1930155021 County: White

City: Crossville Site Name: Huck's #131 - Maier's Grocery

Site Address: 109 South State Street

Date this form was prepared: 06/20/2025

List all IEMA Incident numbers associated with this package:

2009-1397

List all other incidents associated with this site that are not associated with this package:

This form is being submitted as a (check one, if applicable):

Billing Package

Budget Amendment (Budget amendments must include only the costs over the previous budget.)

Budget Proposal

Please provide the name(s) and date(s) of report(s) documenting the costs requested:

Name(s): _____

Date(s): _____

This package is being submitted for the site activities indicated below:

35 III. Adm. Code 734:

Early Action

Free Product Removal after Early Action

Site Investigation Stage 1: Stage 2: Stage 3:

Corrective Action

35 III. Adm. Code 732:

Early Action

Free Product Removal after Early Action

Site Classification

Low Priority Corrective Action

High Priority Corrective Action

35 III. Adm. Code 731:

Site Investigation

Corrective Action

General Information for the Budget and Billing Forms

The following address will be used as the mailing address for checks and any final determination letters regarding payment from the Fund for this package.

Pay to the order of: Martin & Bayley, Inc.

Send in care of: CWM Company

Address: 701 South Grand Avenue West

City: Springfield

State: IL

Zip: 62704

The payee is the: Owner Operator (Check one or both.)

Landon Bayley
Signature of the owner or operator of the UST(s) (required)

7-1-25
Date

Landon Bayley

Printed name of the owner or operator of the UST(s) (required)

W-9 must be submitted.
[Click here to print off a W-9 Form.](#)

Email: LBAYLEY@HUCKS.COM

Number of petroleum USTs in Illinois presently owned or operated by the owner or operator; any subsidiary, parent or joint stock company of the owner or operator; and any company owned by any parent, subsidiary or joint stock company of the owner or operator:

Fewer than 101: 101 or more:

Please list all tanks that have ever been located at the site and tanks that are presently located at the site.

Product Stored in UST	Size (gallons)	Did UST have a release?	Incident No.	Type of Release Tank Leak / Overfill / Piping Leak
Gasoline	10,000	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	2009-1397	Tank Leak
Gasoline	10,000	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	2009-1397	Tank Leak
Gasoline	8,000	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>		
Gasoline	4,000	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>		
		Yes <input type="checkbox"/> No <input type="checkbox"/>		
		Yes <input type="checkbox"/> No <input type="checkbox"/>		
		Yes <input type="checkbox"/> No <input type="checkbox"/>		
		Yes <input type="checkbox"/> No <input type="checkbox"/>		

Owner/Operator and Licensed Professional Engineer/Geologist Budget Certification Form

I hereby certify that I intend to seek payment from the UST Fund for costs incurred while performing corrective action activities for Leaking UST incident 2009-1397. I further certify that the costs set forth in this budget are for necessary activities and are reasonable and accurate to the best of my knowledge and belief. I also certify that the costs included in this budget are not for corrective action in excess of the minimum requirements of 415 ILCS 5/57, no costs are included in this budget that are not described in the corrective action plan, and no costs exceed Subpart H: Maximum Payment Amounts, Appendix D Sample Handling and Analysis amounts, and Appendix E Personnel Titles and Rates of 35 Ill. Adm. Code 732 or 734. I further certify that costs ineligible for payment from the Fund pursuant to 35 Ill. Adm. Code 732.606 or 734.630 are not included in the budget proposal or amendment. Such ineligible costs include but are not limited to:

- Costs associated with ineligible tanks.
- Costs associated with site restoration (e.g., pump islands, canopies).
- Costs associated with utility replacement (e.g., sewers, electrical, telephone, etc.).
- Costs incurred prior to IEMA notification.
- Costs associated with planned tank pulls.
- Legal fees or costs.
- Costs incurred prior to July 28, 1989.
- Costs associated with installation of new USTs or the repair of existing USTs.

Owner/Operator: Martjn & Bayley, Inc.

Authorized Representative: Troy Dietz Title: Director of Petroleum

Signature: *Troy Dietz* Date: 7/1/25

Subscribed and sworn to before me the 1st day of July, 2025.

Rose M. Haas
(Notary Public)

Seal:



In addition, I certify under penalty of law that all activities that are the subject of this plan, budget, or report were conducted under my supervision or were conducted under the supervision of another Licensed Professional Engineer or Licensed Professional Geologist and reviewed by me; that this plan, budget, or report and all attachments were prepared under my supervision; that, to the best of my knowledge and belief, the work described in the plan, budget, or report has been completed in accordance with the Environmental Protection Act [415 ILCS 5], 35 Ill. Adm. Code 732 or 734, and generally accepted standards and practices of my profession; and that the information presented is accurate and complete. I am aware there are significant penalties for submitting false statements or representations to the Illinois EPA, including but not limited to fines, imprisonment, or both as provided in Sections 44 and 57.17 of the Environmental Protection Act [415 ILCS 5/44 and 57.17].

L.P.E./L.P.G.: Vince E. Smith

L.P.E./L.P.G. Seal: *Vince E. Smith*

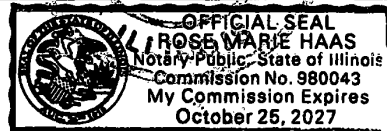
L.P.E./L.P.G. Signature: *Vince E. Smith*

Date: 7/20/25

Subscribed and sworn to before me the 20th day of June

Rose M. Haas
(Notary Public)

Seal:



The Illinois EPA is authorized to require this information under 415 ILCS 5/1. Disclosure of this information is required. Failure to do so may result in the delay or denial of any budget or payment requested hereunder.

Budget Summary

Choose the applicable regulation: 734 732

734	Free Product	Stage 1 Site Investigation	Stage 2 Site Investigation	Stage 3 Site Investigation	Corrective Action
					Proposed
Drilling and Monitoring Well Costs Form	\$	\$	\$	\$	\$ 1,883.31
Analytical Costs Form	\$	\$	\$	\$	\$ 858.15
Remediation and Disposal Costs Form	\$	\$	\$	\$	\$
UST Removal and Abandonment Costs Form	\$	\$	\$	\$	\$
Paving, Demolition, and Well Abandonment Costs Form	\$	\$	\$	\$	\$
Consulting Personnel Costs Form	\$	\$	\$	\$	\$ 15,003.24
Consultant's Materials Costs Form	\$	\$	\$	\$	\$ 448.50
Handling Charges Form	Handling charges will be determined at the time a billing package is submitted to the Illinois EPA. The amount of allowable handling charges will be determined in accordance with the Handling Charges Form.				
Total	\$	\$	\$	\$	\$ 18,193.20

Drilling and Monitoring Well Costs Form

1. Drilling

Number of Borings to Be Drilled	Type HSA/PUSH/ Injection	Depth (feet) of Each Boring	Total Feet Drilled	Reason for Drilling
1	PUSH	10.00	10.00	Re-sample EA Wall Sample 11
1	PUSH	5.00	5.00	Soil-Gas Vapor Sample @ EA Wall Sample 11

Subpart H minimum payment amount applies.

	Total Feet	Rate per Foot (\$)	Total Cost (\$)
Total Feet via HSA:			
Total Feet via PUSH:	15.00	28.25	423.75
Total Feet for Injection via PUSH:			
Total Drilling Costs:			1,883.31

2. Monitoring / Recovery Wells

Number of Wells	Type of Well HSA / PUSH / 4" or 6" Recovery / 8" Recovery	Diameter of Well (inches)	Depth of Well (feet)	Total Feet of Wells to Be Installed (\$)

Well Installation	Total Feet	Rate per Foot (\$)	Total Cost (\$)
Total Feet via HSA:			
Total Feet via PUSH:			
Total Feet of 4" or 6" Recovery:			
Total Feet of 8" or Greater Recovery:			
Total Well Costs:			

Total Drilling and Monitoring Well Costs:	\$1,883.31
--	-------------------

Analytical Costs Form

Laboratory Analysis	Number of Samples		Cost (\$) per Analysis		Total per Parameter
Chemical Analysis					
BETX Soil with MTBE EPA 8260	1	X	130.79	=	\$130.79
BETX Water with MTBE EPA 8260	1	X	124.63	=	\$124.63
COD (Chemical Oxygen Demand)		X		=	
Corrosivity		X		=	
Flash Point or Ignitability Analysis EPA 1010		X		=	
Fraction Organic Carbon Content (f _{OC}) ASTM-D 2974-00		X		=	
Fat, Oil, & Grease (FOG)		X		=	
LUST Pollutants Soil - analysis must include volatile, base/neutral, polynuclear aromatics and metals list in Section 732. Appendix B and 734. Appendix B		X		=	
Dissolved Oxygen (DO)		X		=	
Paint Filter (Free Liquids)		X		=	
PCB / Pesticides (combination)		X		=	
PCBs		X		=	
Pesticides		X		=	
pH		X		=	
Phenol		X		=	
Polynuclear Aromatics PNA, or PAH SOIL EPA 8270		X		=	
Polynuclear Aromatics PNA, or PAH WATER EPA 8270		X		=	
Reactivity		X		=	
SVOC - Soil (Semi-Volatile Organic Compounds)		X		=	
SVOC - Water (Semi-Volatile Organic Compounds)		X		=	
TKN (Total Kjeldahl) "nitrogen"		X		=	
TPH (Total Petroleum Hydrocarbons)		X		=	
VOC (Volatile Organic Compounds) - Soil (Non-Aqueous)		X		=	
VOC (Volatile Organic Compounds) - Water		X		=	
VOC Air by GC/MS - Soil-Gas Vapor Sample	1	X	347.00	=	\$347.00
Flow Controller Rental for Soil-Gas Vapor Sample	1	X	25.00	=	\$25.00
Fittings/Ferrules for Soil-Gas Vapor Sample	2	X	4.00	=	\$8.00
Summa 1.4L MQT (Silonite) for Soil-Gas Vapor Sample	1	X	45.00	=	\$45.00
		X		=	
Geo-Technical Analysis					
Soil Bulk Density (p _b) ASTM D2937-94		X		=	
Ex-situ Hydraulic Conductivity / Permeability		X		=	
Moisture Content (w) ASTM D2216-92 / D4643-93		X		=	
Porosity		X		=	
Rock Hydraulic Conductivity Ex-situ		X		=	
Sieve / Particle Size Analysis ASTM D422-63 / D1140-54		X		=	
Soil Classification ASTM D2488-90 / D2487-90		X		=	
Soil Particle Density (p _s) ASTM D854-92		X		=	
		X		=	
		X		=	
		X		=	

Analytical Costs Form

Metals Analysis					
Soil preparation fee for Metals TCLP Soil (one fee per soil sample)		X		=	
Soil preparation fee for Metals Total Soil (one fee per soil sample)		X		=	
Water preparation fee for Metals Water (one fee per water sample)		X		=	
Arsenic TCLP Soil		X		=	
Arsenic Total Soil		X		=	
Arsenic Water		X		=	
Barium TCLP Soil		X		=	
Barium Total Soil		X		=	
Barium Water		X		=	
Cadmium TCLP Soil		X		=	
Cadmium Total Soil		X		=	
Cadmium Water		X		=	
Chromium TCLP Soil		X		=	
Chromium Total Soil		X		=	
Chromium Water		X		=	
Cyanide TCLP Soil		X		=	
Cyanide Total Soil		X		=	
Cyanide Water		X		=	
Iron TCLP Soil		X		=	
Iron Total Soil		X		=	
Iron Water		X		=	
Lead TCLP Soil		X		=	
Lead Total Soil		X		=	
Lead Water		X		=	
Mercury TCLP Soil		X		=	
Mercury Total Soil		X		=	
Mercury Water		X		=	
Selenium TCLP Soil		X		=	
Selenium Total Soil		X		=	
Selenium Water		X		=	
Silver TCLP Soil		X		=	
Silver Total Soil		X		=	
Silver Water		X		=	
Metals TCLP Soil (a combination of all metals) RCRA		X		=	
Metals Total Soil (a combination of all metals) RCRA		X		=	
Metals Water (a combination of all metals) RCRA		X		=	
		X		=	
		X		=	
		X		=	
		X		=	
Other					
EnCore® Sampler, purge-and-trap sampler, or equivalent sampling device	1	X	15.39	=	\$15.39
Sample Shipping per sampling event ¹	2	X	76.93	=	\$153.86

¹A sampling event, at a minimum, is all samples (soil and groundwater) collected in a calendar day.

Total Analytical Costs: \$ 849.67

Consulting Personnel Costs Form

Employee Name	Personnel Title	Hours	Rate* (\$)	Total Cost
Remediation Category	Task			
	Senior Project Manager	28.00	156.94	\$4,394.32
CCAP	Corrective Action Plan Amendment Design and Preparation			
	Senior Prof. Engineer	2.00	204.03	\$408.06
CCAP	Corrective Action Plan Review and Certification			
	Senior Admin. Assistant	2.00	70.62	\$141.24
CCAP	Corrective Action Plan Compilation, Assembly and Distribution			
	Senior Draftperson/CAD	4.00	94.16	\$376.64
CCAP	Drafting for Corrective Action Plan			

Employee Name	Personnel Title	Hours	Rate* (\$)	Total Cost
Remediation Category	Task			

	Senior Project Manager	8.00	156.94	\$1,255.52
CCAP-Budget	Corrective Action Budget Design, Calculations and Inputs			

	Senior Prof. Engineer	2.00	204.03	\$408.06
CCAP-Budget	Corrective Action Budget Review and Certification			

Employee Name	Personnel Title	Hours	Rate* (\$)	Total Cost
Remediation Category	Task			
	Senior Project Manager	14.00	156.94	\$2,197.16
CCA-Field	Field Prep, Scheduling, Drilling/Sampling (RT - Springfield Office)			
	Senior Technician	12.00	102.00	\$1,224.00
CCA-Field	Drilling/Sampling, Field Notes/Boring Logs (RT - Springfield Office)			
	Senior Project Manager	4.00	156.94	\$627.76
CCA-Field	Agency Correspondence, Client Correspondence, Property Owner Corr, IEPA Field Notifications			
	Senior Project Manager	4.00	156.94	\$627.76
CCA-Field	Review/Tabulate Analytical Results			
	Senior Project Manager	6.00	156.94	\$941.64
TACO 2 or 3	TACO Tier 2 CUO Development, Updating Data and Parameters			
	Senior Project Manager	3.00	156.94	\$470.82
TACO 2 or 3	Contaminant Transport Modeling / Assessment of Contamination Levels/Plume			

Consultant's Materials Costs Form

Materials, Equipment, or Field Purchase		Time or Amount Used	Rate (\$)	Unit	Total Cost
Remediation Category	Description/Justification				
Postage		2.00	12.50	/each	\$25.00
CCAP	Distribution of Corrective Action Forms / Plan				
PID		1.00	75.00	/day	\$75.00
CCA-Field	Monitoring During Drilling/Sampling Activities				
Sampling Supplies		1.00	25.00	/day	\$25.00
CCA-Field	Disposable latex gloves for soil sampling, bags, deionized water, sampling supplies				
Mileage		415.00	.70	/mile	\$290.50
CCA-Field	1 Drilling/Sampling Round Trip (Springfield Office)				
Bailers		1.00	8.00	/each	\$8.00
CCA-Field	1 Disposable Bailer for Groundwater Sampling				
Postage		2.00	12.50	/each	\$25.00
CA-Pay	Distribution of Corrective Action Reimbursement Packages / Drafts / Forms				

Total of Consultant Materials Costs	\$448.50
--	-----------------

LEAKING UST TECHNICAL REVIEW NOTES

Reviewed by: Eric Kuhlman

Re: 1930155021 – White County
Crossville / Maier’s Grocery (Huck’s #131)
109 South State Street
Leaking UST Incident 20091397
Leaking UST Technical File

Date Reviewed: 10/15/2025

Document(s) Reviewed:

CAP / BUD

General Site Information:

Site subject to: «731 732 or 734»

IEMA date(s): 12/16/2009	Payment from the Fund? (Y/N/unknown): Y
UST system removed? (Y/N): Y	OSFM Fac. ID #: 7-021663
Encountered groundwater? (Y/N): Y	SWAP mapping and evaluation completion date: 10/17/2025
Free product? (Y/N/unknown): N	Site placement correct in SWAP? (Y/N): N
Current/past land use: grocery store / convenience store and fuel station	Inspection Required? (Date/Plan): N
Size & product of USTs: Tank 1 - 10,000-gallon gasoline Tank 2 - 10,000-gallon gasoline Tank 3 - 8,000-gallon gasoline Tank 4 - 4,000-gallon gasoline	[20091397] [20091397] [currently in-use] [currently in-use]
Is site located in EJ area? N	Is investigation of indoor inhalation exposure route required? N
Has enough sampling been completed to perform a Right-to-Know Evaluation? Y	PLA Checklist Complete? Y

BOL File Information:(optional) (Arranged chronologically):

< See DocuWare >

On 12/16/2009, during a subsurface investigation, evidence of a release was observed at Maier’s Grocery in Crossville, IL. Odorous and discolored soils was discovered in samples recovered from SB advanced adjacent to tank pit; (2) 10,000-gallon gasoline USTs; Tank #1 still in-use and Tank #2 was removed from service. All product was removed from tank out-of-service, due to holes and groundwater that infiltrated tank. Soil samples [No.2] collected and analyzed for BETX and WC parameters [TCLP Pb, PF, FP, pH]. Analytical results indicated COCs > Tier I SROs for **C_{sat} in No.2 6’(X)**; **CW Inh** in No.2 6’(X); **Res Inh** in No.2 6’(B); **SCGI** in No.2 6’(BETX, Pb).

As required by law, IEMA was notified of release within 24-hour period and site was assigned LUST Incident **20091397**.

On 12/16/2009, a release was reported to IEMA and assigned LUST Incident **20091397**.

On 12/30/2009, AET submitted **20-DC** dated 12/30/2009 that provided O/O contact information.

On 1/26/2010, AET submitted **45-DR** dated 1/25/2010 that documented above EA activities. *IEPA selected 45-DR for full review on 2/4/2010.*

On 1/26/2010, concrete overlying tank pit and product lines were removed. All fuel that remained in product lines was sucked out prior to removal of concrete and fuel/water mixture in abandoned UST removed, ≈6,450 gallons of product/water

On 1/27/2010, (2) 10,000-gallon gasoline USTs, pump islands, dispensers and product supply lines were removed from this facility. *An abnormally high amount of rainfall contributed to a greater than normal amount of groundwater recharge into abandoned tank and tank pit prior to UST removal.*

*On 1/27/2010, during tank removal, some product (**heavy sheen**) was observed on water in excavation. It did not appear to exceed a depth of 1/8 inch on water surface. ≈26 tons of Code L lime were added to tank pit to dewater excavation to removed product/cut water and lime before soil mixture was manifested to landfill.*

On 1/28/2010, ≈544 tons (362 cyds) of contaminated backfill was removed from tank pit and hauled to landfill. (19) soil samples [**1 thru 19**] were collected from excavation floor and sidewalls, product pipes, and disponers; then analyzed for BETX/M, TCLP Pb, and Total Pb. Analytical results indicated COCs > Tier I SROs for **Res Inh** in 11 6'(B); **SCGI** in 1 6'(Pb), 2 6'(Pb), 3 6'(Pb), 7 13'(Pb), 8 13'(Pb), 10 6'(B), 11 6'(BM, Pb), 12 6'(Pb), 13 6'(B, Pb), 14 6'(Pb), 15 6'(Pb), 15 6'(Pb), 17 3'(Pb), 18 3'(B, Pb), 19 3'(B, Pb).

On 1/28/2010, excavation was partially backfilled with pea gravel, leveled and prepared for installation of new 12,000-gallon compartmentalized USTs.

On 2/16/2010, AET submitted **45-DR** dated 2/10/2010 that documented AE activities.

On 2/22/2010, AET submitted **MISC** dated 2/19/2010 that provided laboratory results for No. 2

On 6/2/2010, (5) SBs [**B-1 thru B-5**] were advanced to depths of 15 feet bgs around former UST excavation and completed as MWs [**MW-1 thru MW-5**]. *Water was encountered while drilling at 8-12 feet bgs.* Soil samples were collected and analyzed for BETX/M, TCLP Pb. Analytical results indicated COCs > Tier I SROs for **SCGI** in B-2 8'(B), B-4 10'(Pb).

On 6/2/2010, soil sample was collected from B-1(#1) and analyzed for TACO physical parameters [ρ_b , ω , ρ_s , t_{oc}]. Analytical results indicated ρ_b of **99.2 pcf**, ω of **24.1%**, ρ_s of **2.70**, t_{oc} of **0.017 mg/kg**.

On 6/30/2010, (5) MWs installed were surveyed, depth to groundwater measured, purged, and sampled. MWs were purged dry w/low flow submersible pump and allowed to recharge.

On 6/30/2010, water samples were collected from MW-1 thru MW-5. Analytical results indicated COCs > Tier I GROs for **GCGI** in MW-2(B), MW-3(BM), MW-5(B).

On 7/9/2010, (1) slug test was performed on MW-1. Test results indicated a hydraulic conductivity (**K**) of **1.74×10^{-4} cm/sec** using Bower-Rice Method.

On 9/17/2010, AET submitted **SIP** dated 9/16/2010 that proposed (7) SBs be advanced to depths of 15 feet bgs; (4) SBs and (3) SBs across alleyway on southern adjacent property. (3) SBs will be completed as MWs. Soil samples will be collected and analyzed for BETX/M. *IEPA approved SIP on 10/20/2010.*

On 11/12/2011, (7) SBs [**B-6, B-8 thru B-12**] were advanced to depths of 15 feet bgs and completed as MWs [**MW-6, MW-8 thru MW-12**]. Groundwater was encountered while drilling at 8 feet bgs. Soil samples were collected and analyzed for BETX/M and TCLP Pb. Analytical results indicated COCs > Tier I SROs for **SCGI** in S-6 3'(Pb).

On 1/26/2012, water samples were collected from MW-6, MW-8 thru MW-12. Analytical results indicated COCs < Tier I GROs for **GCGI**.

On 10/23/2012, slug test was performed on MW-10. Test results indicated a calculated hydraulic conductivity (**K**) of **1.56×10^{-5} cm/sec** using Bouwer-Rice Method.

On 7/19/2013, CWM submitted **SIP** dated 7/18/2013 that proposed (4) SBs be advanced to depths of 15 feet bgs; (3) SBs [**L-1 thru L-3**] along northern property boundary lines near B-6 and (1) GTB [**TACO**] near B-10. Soil samples will be collected and analyzed for BETX/M and TACO parameters [f_{oc} , ρ_b , ω , ρ_s] and particle size analysis. *IEPA approved SIP on 8/8/2013.*

ISGS Berg Circular 532 indicated this site is within an area classified as "G" soil type consisted of shale or relatively impermeable limestone between 20-50 feet of surface; overlain by till or other fine-grain materials with no identifiable sand or gravel.

On 8/15/2013, (3) SBs [**L-1 thru L-3**] were advanced to depths of 10 feet bgs in northern portion of property. Soil samples were collected and analyzed for TCLP Pb. Analytical results indicated COCs > Tier I SROs for **SCGI** in L-3 3'(Pb).

On 8/15/2013, (1) GTB [**TACO**] was advanced to depths of 10 feet bgs near B-10. Soils samples were collected and analyzed for TACO parameters [f_{oc} , ρ_b , ω , ρ_s] and particle size analysis. Analytical results indicated f_{oc} of **0.00630 g/g**, ρ_b of **1.398 g/cm³**, ω of **0.23**, ρ_s of **2.523 g/cm³**, w/Soil Classification of **LOAM** (49.1% sand, 8.6% clay, 42.2% silt).

On 10/01/2013, CWM submitted **SIP** dated 10/1/2013 that proposed (2) SBs be advanced to 10 feet bgs in northwest corner of property near L-3. Soil samples will be collected and analyzed for BETX/M and TCLP Pb. *IEPA approved SIP on 10/23/2013.*

On 11/18/2013, (2) SBs [**L-4, L-5**] were advanced to depths of 15 feet bgs in northwest corner of property near L-3. Soil samples were collected and analyzed for TCLP Pb. Analytical results indicated COCs > Tier I SROs for **SCGI**.

On 6/24/2014, CWM submitted **SICR** dated 6/23/2014 that documented above-SI activities. *IEPA approved SICR on 7/1/2014.*

On 9/12/2014, CWM submitted **CAP** dated 9/11/2014 that proposed to excavate, transport, and dispose of ≈ 286 cyds of contaminated soils w/COCs > Tier I SROs. CWM proposed following ICs: an I/C land use restriction, a limited groundwater ordinance, and HAA. *IEPA approved CAP on 9/26/2014.*

On 11/17/2015, CWM submitted **CAP** dated 11/17/2015 that provided PLA Screening Criterion Checklist. *IEPA approved CAP on 3/15/2016.*

Corrective Action Plan/Budget Review Notes:

On 7/14/2025, CWM submitted **CAP** dated 7/8/2025 that proposed (1) SB be advanced to depths of 10 feet bgs to resample EA wall sample 11; (1) SG sample is proposed adjacent to EA wall sample 11 to depths of 5 feet bgs; and MW-3 to be resampled. Soil, SG-V, and GW samples will be collected and analyzed for BETX/M; plus, VOCs for SG-V.

Illinois EPA Decision:

PM recommends CAP and BUD be modified...

[see IEPA letter]

Response Due:

11/11/2025

From: matt.cwmcompany.com
To: [Kuhlman, Eric](mailto:Eric.Kuhlman@illinois.gov)
Subject: [External] RE: Maier's Grocery - LUST Incident 20091397
Date: Friday, November 7, 2025 9:55:34 AM
Attachments: [image.png](#)
[image.png](#)
[image.png](#)
[image.png](#)
[image.png](#)
[image.png](#)
[image.png](#)

Eric,

Yes, we will waive the right of review and issue a 60 day extension.

Thanks!

Matt Saladino, P.E.
Senior Professional Engineer
CW³M Company, Inc.
701 W. South Grand Avenue, Springfield, Illinois
(217) 522-8001

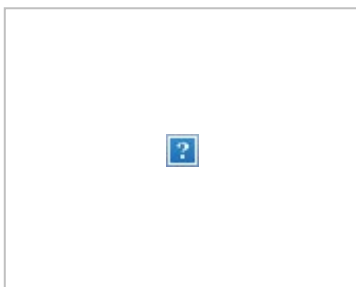
From: Kuhlman, Eric <Eric.Kuhlman@Illinois.gov>
Sent: Friday, November 7, 2025 8:38 AM
To: matt.cwmcompany.com <matts@cwmcompany.com>
Cc: cwm.cwmcompany.com <cwm@cwmcompany.com>
Subject: Maier's Grocery - LUST Incident 20091397

Good morning,

With the IEPA response date fast-approaching, I believe a 60-day extension may be necessary for the IEPA to complete its technical review of the CAP and BUD dated 7/8/2025 for the above-referenced incident. As you are aware, the IEPA response date is Tuesday, November 11, 2025.

Therefore, would it be possible to waive the right of review of the CAP and BUD for the above-referenced incident in accordance with Section 734.505(d) for a minimum of 60 days?

Respectfully,



Eric Kuhlman
Environmental Protection Engineer III
LUST Section, Bureau of Land
217-785-5715
eric.kuhlman@illinois.gov



Join our team: [Illinois EPA Employment](#)

State of Illinois - CONFIDENTIALITY NOTICE: The information contained in this communication is confidential, may be attorney-client privileged or attorney work product, may constitute inside information or internal deliberative staff communication, and is intended only for the use of the addressee. Unauthorized use, disclosure or copying of this communication or any part thereof is strictly prohibited and may be unlawful. If you have received this communication in error, please notify the sender immediately by return e-mail and destroy this communication and all copies thereof, including all attachments. Receipt by an unintended recipient does not waive attorney-client privilege, attorney work product privilege, or any other exemption from disclosure.

Chemical: **Benzene** Soil pH (if applicable) 0
 Groundwater pH (if applicable) 0

CASRN 71-43-2

Soil Ingestion ROs - All Depths (mg/kg)		
Residential	Industrial/Commercial	Construction Worker
1.2E+01	1.0E+02	2.0E+03
Carcinogen S2	Carcinogen S3	Non-Carcinogen S1

LPC No.:	1930155021
Site Name:	Maier's Grocery (Huck's #131)
Project Manager:	Kuhlman
Date Run:	1/6/2026

Outdoor Inhalation ROs for Organics (mg/kg) Infinite Source - Surface Soils (VF Equations = S8/S9)		
Residential	Industrial/Commercial	Construction Worker
8.0E-01	1.5E+00	2.2E+00
Carcinogen S6	Carcinogen S6	Carcinogen S7

Chemical/Physical Parameters		
Parameter	Value	Unit
S	1.80E+03	mg/L
D _i	8.80E-02	cm ² /s
D _w	1.02E-05	cm ² /s
H'	2.30E-01	unitless
K _{oc}	5.00E+01	cm ² /g

Outdoor Inhalation ROs for Organics (mg/kg) Infinite Source - Subsurface Soils (VF Equations = S8/S9)		
Residential	Industrial/Commercial	Construction Worker
2.9E+00	5.6E+00	7.9E+00
Carcinogen S6	Carcinogen S6	Carcinogen S7

Carcinogen Toxicity Parameters		
Parameter	Value	Unit
SF _o Residential	5.5E-02	(mg/kg-d) ⁻¹
SF _o I/C and CW	5.5E-02	(mg/kg-d) ⁻¹
URF Residential	7.8E-06	(ug/mg ³) ⁻¹
URF I/C and CW	7.8E-06	(ug/mg ³) ⁻¹

Outdoor Inhalation ROs for Organics (mg/kg) Mass-Limit - All Depths (VF Equations = S26/S27)		
Residential	Industrial/Commercial	Construction Worker
6.3E+00	1.1E+01	2.2E+02
Carcinogen S6	Carcinogen S6	Carcinogen S7

Non-Carcinogen Toxicity Parameters		
Parameter	Value	Unit
RfD	4.00E-03	mg/kg-d
RfD _s	1.00E-02	mg/kg-d
RfC	3.00E-02	mg/m ³
RfC _s	8.00E-02	mg/m ³

Outdoor Inhalation ROs for Organics and Inorganics (mg/kg) - All Depths (Fugitive Dust Equations)		
Residential	Industrial/Commercial	Construction Worker
4.1E+05	6.5E+05	1.4E+07
Carcinogen S13	Carcinogen S13	Carcinogen S14

Site-Specific Soil Saturation (C _{sat}) Limits S29 (mg/kg)	
Surface C _{sat}	Subsurface C _{sat}
8.0E+02	1.0E+03

MORE STRINGENT THAN TIER 1 - DO NOT USE!

Tier 2 Health-Based Groundwater Objectives Calculated with Part 620 (mg/L) HNTAC/S23 for Carcinogens, HTTAC for Noncarcinogens	
Class I GW _{obj}	Class II GW _{obj}
1.5E-03	7.74E-03
S17 Infinite Source Soil Component of GW Ingestion ROs for Subsurface Soils (mg/kg)	
Class I Subsurface Soils	Class II Subsurface Soils
1.7E-02	8.6E-02
S17 Infinite Source Soil Component of GW Ingestion ROs for Surface Soils (mg/kg)	
Class I Surface Soils	Class II Surface Soils
1.4E-02	6.9E-02
Mass-Limit Soil Component of GW Ingestion ROs for All Depths	
Class I	Class II
8.5E-02	4.3E-01

Tier 1 Appendix B, Table E Groundwater Ingestion Objectives (mg/L)	
Class I GW _{obj}	Class II GW _{obj}
5.0E-03	2.50E-02
S17 Infinite Source Soil Component of GW Ingestion ROs for Subsurface Soils (mg/kg)	
Class I Subsurface Soils	Class II Subsurface Soils
5.6E-02	2.8E-01
S17 Infinite Source Soil Component of GW Ingestion ROs for Surface Soils (mg/kg)	
Class I Surface Soils	Class II Surface Soils
4.4E-02	2.2E-01
Mass-Limit Soil Component of GW Ingestion ROs for All Depths	
Class I	Class II
2.8E-01	1.4E+00

Chemical: **Ethylbenzene** Soil pH (if applicable) 0
 Groundwater pH (if applicable) 0

CASRN 100-41-4

Soil Ingestion ROs - All Depths (mg/kg)		
Residential	Industrial/Commercial	Construction Worker
5.8E+01	5.2E+02	1.0E+04
Carcinogen S2	Carcinogen S3	Non-Carcinogen S1

LPC No.:	1930155021
Site Name:	Maier's Grocery (Huck's #131)
Project Manager:	Kuhlman
Date Run:	1/6/2026

Outdoor Inhalation ROs for Organics (mg/kg) Infinite Source - Surface Soils (VF Equations = S8/S9)		
Residential	Industrial/Commercial	Construction Worker
4.9E+00	9.5E+00	1.3E+01
Carcinogen S6	Carcinogen S6	Carcinogen S7

Chemical/Physical Parameters		
Parameter	Value	Unit
S	1.70E+02	mg/L
D _i	7.50E-02	cm ² /s
D _w	7.80E-06	cm ² /s
H'	3.24E-01	unitless
K _{oc}	3.20E+02	cm ³ /g

Outdoor Inhalation ROs for Organics (mg/kg) Infinite Source - Subsurface Soils (VF Equations = S8/S9)		
Residential	Industrial/Commercial	Construction Worker
1.7E+01	3.2E+01	4.6E+01
Carcinogen S6	Carcinogen S6	Carcinogen S7

Carcinogen Toxicity Parameters		
Parameter	Value	Unit
SF _o Residential	1.1E-02	(mg/kg-d) ⁻¹
SF _o I/C and CW	1.1E-02	(mg/kg-d) ⁻¹
URF Residential	2.5E-06	(ug/mg ³) ⁻¹
URF I/C and CW	2.5E-06	(ug/mg ³) ⁻¹

Outdoor Inhalation ROs for Organics (mg/kg) Mass-Limit - All Depths (VF Equations = S26/S27)		
Residential	Industrial/Commercial	Construction Worker
2.0E+01	3.3E+01	Csat Applies
Carcinogen S6	Carcinogen S6	Carcinogen S7

Non-Carcinogen Toxicity Parameters		
Parameter	Value	Unit
RfD	5.00E-02	mg/kg-d
RfD _s	5.00E-02	mg/kg-d
RfC	1.00E+00	mg/m ³
RfC _s	9.00E+00	mg/m ³

Outdoor Inhalation ROs for Organics and Inorganics (mg/kg) - All Depths (Fugitive Dust Equations)		
Residential	Industrial/Commercial	Construction Worker
1.3E+06	2.0E+06	4.2E+07
Carcinogen S13	Carcinogen S13	Carcinogen S14

Use More Stringent of VF ROs and Fugitive Dust ROs for the Outdoor Inhalation ROs

Site-Specific Soil Saturation (C _{sat}) Limits S29 (mg/kg)	
Surface C _{sat}	Subsurface C _{sat}
3.5E+02	3.9E+02

Tier 1 Appendix B, Table E Groundwater Ingestion Objectives (mg/L)	
Class I GW _{obj}	Class II GW _{obj}
7.0E-01	1.00E+00
S17 Infinite Source Soil Component of GW Ingestion ROs for Subsurface Soils (mg/kg)	
Class I Subsurface Soils	Class II Subsurface Soils
3.2E+01	4.5E+01
S17 Infinite Source Soil Component of GW Ingestion ROs for Surface Soils (mg/kg)	
Class I Surface Soils	Class II Surface Soils
2.9E+01	4.2E+01
Mass-Limit Soil Component of GW Ingestion ROs for All Depths	
Class I	Class II
3.9E+01	5.5E+01

MORE STRINGENT THAN TIER 1 - DO NOT USE!	
Tier 2 Health-Based Groundwater Objectives Calculated with Part 620 (mg/L) HNTAC/S23 for Carcinogens, HTTAC for Noncarcinogens	
Class I GW _{obj}	Class II GW _{obj}
7.7E-03	3.87E-02
S17 Infinite Source Soil Component of GW Ingestion ROs for Subsurface Soils (mg/kg)	
Class I Subsurface Soils	Class II Subsurface Soils
3.5E-01	1.8E+00
S17 Infinite Source Soil Component of GW Ingestion ROs for Surface Soils (mg/kg)	
Class I Surface Soils	Class II Surface Soils
3.2E-01	1.6E+00
Mass-Limit Soil Component of GW Ingestion ROs for All Depths	
Class I	Class II
4.3E-01	2.1E+00

Chemical: **Xylenes (Total)** Soil pH (if applicable) 0
 Groundwater pH (if applicable) 0

CASRN 1330-20-7

Soil Ingestion ROs - All Depths (mg/kg)		
Residential	Industrial/Commercial	Construction Worker
1.6E+04	4.1E+05	8.2E+04
Non-Carcinogen S1	Non-Carcinogen S1	Non-Carcinogen S1

LPC No.:	1930155021
Site Name:	Maier's Grocery (Huck's #131)
Project Manager:	Kuhlman
Date Run:	1/6/2026

Outdoor Inhalation ROs for Organics (mg/kg) Infinite Source - Surface Soils (VF Equations = S8/S9)		
Residential	Industrial/Commercial	Construction Worker
Csat Applies	2.8E+02	2.7E+01
Non-Carcinogen S4	Non-Carcinogen S4	Non-Carcinogen S5

Chemical/Physical Parameters		
Parameter	Value	Unit
S	1.10E+02	mg/L
D _i	7.35E-02	cm ² /s
D _w	9.23E-06	cm ² /s
H'	2.71E-01	unitless
K _{oc}	3.98E+02	cm ² /g

Outdoor Inhalation ROs for Organics (mg/kg) Infinite Source - Subsurface Soils (VF Equations = S8/S9)		
Residential	Industrial/Commercial	Construction Worker
Csat Applies	Csat Applies	9.1E+01
Non-Carcinogen S4	Non-Carcinogen S4	Non-Carcinogen S5

Carcinogen Toxicity Parameters		
Parameter	Value	Unit
SF _o Residential	No Data	(mg/kg-d) ⁻¹
SF _o I/C and CW	No Data	(mg/kg-d) ⁻¹
URF Residential	No Data	(ug/mg ³ ·y) ⁻¹
URF I/C and CW	No Data	(ug/mg ³ ·y) ⁻¹

Outdoor Inhalation ROs for Organics (mg/kg) Mass-Limit - All Depths (VF Equations = S26/S27)		
Residential	Industrial/Commercial	Construction Worker
Csat Applies	Csat Applies	Csat Applies
Non-Carcinogen S4	Carcinogen S6	Non-Carcinogen S5

Non-Carcinogen Toxicity Parameters		
Parameter	Value	Unit
RfD	2.00E-01	mg/kg-d
RfD _s	4.00E-01	mg/kg-d
RfC	1.00E-01	mg/m ³
RfC _s	4.00E-01	mg/m ³

Outdoor Inhalation ROs for Organics and Inorganics (mg/kg) - All Depths (Fugitive Dust Equations)		
Residential	Industrial/Commercial	Construction Worker
1.4E+08	1.8E+08	7.0E+07
Non-Carcinogen S11	Non-Carcinogen S11	Non-Carcinogen S12

Site-Specific Soil Saturation (C _{sat}) Limits S29 (mg/kg)	
Surface C _{sat}	Subsurface C _{sat}
2.8E+02	3.0E+02

MORE STRINGENT THAN TIER 1 - DO NOT USE!

Tier 2 Health-Based Groundwater Objectives Calculated with Part 620 (mg/L) HNTAC/S23 for Carcinogens, HTTAC for Noncarcinogens	
Class I GW _{obj}	Class II GW _{obj}
1.4E+00	7.00E+00
S17 Infinite Source Soil Component of GW Ingestion ROs for Subsurface Soils (mg/kg)	
Class I Subsurface Soils	Class II Subsurface Soils
7.7E+01	Csat Applies
S17 Infinite Source Soil Component of GW Ingestion ROs for Surface Soils (mg/kg)	
Class I Surface Soils	Class II Surface Soils
7.1E+01	Csat Applies
Mass-Limit Soil Component of GW Ingestion ROs for All Depths	
Class I	Class II
7.7E+01	Csat Applies

Tier 1 Appendix B, Table E Groundwater Ingestion Objectives (mg/L)	
Class I GW _{obj}	Class II GW _{obj}
1.0E+01	1.00E+01
S17 Infinite Source Soil Component of GW Ingestion ROs for Subsurface Soils (mg/kg)	
Class I Subsurface Soils	Class II Subsurface Soils
Csat Applies	Csat Applies
S17 Infinite Source Soil Component of GW Ingestion ROs for Surface Soils (mg/kg)	
Class I Surface Soils	Class II Surface Soils
Csat Applies	Csat Applies
Mass-Limit Soil Component of GW Ingestion ROs for All Depths	
Class I	Class II
Csat Applies	Csat Applies

Chemical: **Methyl-tertiary-butyl-ether (MTBE)** Soil pH (if applicable) 0
 Groundwater pH (if applicable) 0

CASRN 1634-04-4

Soil Ingestion ROs - All Depths (mg/kg)		
Residential	Industrial/Commercial	Construction Worker
7.8E+02	2.0E+04	8.2E+04
Non-Carcinogen S1	Non-Carcinogen S1	Non-Carcinogen S1

LPC No.:	1930155021
Site Name:	Maier's Grocery (Huck's #131)
Project Manager:	Kuhlman
Date Run:	1/6/2026

Outdoor Inhalation ROs for Organics (mg/kg) Infinite Source - Surface Soils (VF Equations = S8/S9)		
Residential	Industrial/Commercial	Construction Worker
Csat Applies	8.4E+03	1.9E+02
Non-Carcinogen S4	Non-Carcinogen S4	Non-Carcinogen S5

Chemical/Physical Parameters		
Parameter	Value	Unit
S	5.10E+04	mg/L
D _i	8.59E-02	cm ² /s
D _w	1.10E-05	cm ² /s
H'	2.42E-02	unitless
K _{oc}	1.00E+01	cm ³ /g

Outdoor Inhalation ROs for Organics (mg/kg) Infinite Source - Subsurface Soils (VF Equations = S8/S9)		
Residential	Industrial/Commercial	Construction Worker
Csat Applies	Csat Applies	7.9E+02
Non-Carcinogen S4	Non-Carcinogen S4	Non-Carcinogen S5

Carcinogen Toxicity Parameters		
Parameter	Value	Unit
SF _o Residential	No Data	(mg/kg-d) ⁻¹
SF _o I/C and CW	No Data	(mg/kg-d) ⁻¹
URF Residential	No Data	(ug/mg ³ -y) ⁻¹
URF I/C and CW	No Data	(ug/mg ³ -y) ⁻¹

Outdoor Inhalation ROs for Organics (mg/kg) Mass-Limit - All Depths (VF Equations = S26/S27)		
Residential	Industrial/Commercial	Construction Worker
Csat Applies	Csat Applies	Csat Applies
Non-Carcinogen S4	Carcinogen S6	Non-Carcinogen S5

Non-Carcinogen Toxicity Parameters		
Parameter	Value	Unit
RfD	1.00E-02	mg/kg-d
RfD _s	4.00E-01	mg/kg-d
RfC	3.00E+00	mg/m ³
RfC _s	3.61E+00	mg/m ³

Outdoor Inhalation ROs for Organics and Inorganics (mg/kg) - All Depths (Fugitive Dust Equations)		
Residential	Industrial/Commercial	Construction Worker
4.1E+09	5.4E+09	6.3E+08
Non-Carcinogen S11	Non-Carcinogen S11	Non-Carcinogen S12

Site-Specific Soil Saturation (C _{sat}) Limits S29 (mg/kg)	
Surface C _{sat}	Subsurface C _{sat}
8.4E+03	1.4E+04

Tier 1 Appendix B, Table E Groundwater Ingestion Objectives (mg/L)	
Class I GW _{obj}	Class II GW _{obj}
7.0E-02	7.00E-02
S17 Infinite Source Soil Component of GW Ingestion ROs for Subsurface Soils (mg/kg)	
Class I Subsurface Soils	Class II Subsurface Soils
3.9E-01	3.9E-01
S17 Infinite Source Soil Component of GW Ingestion ROs for Surface Soils (mg/kg)	
Class I Surface Soils	Class II Surface Soils
2.3E-01	2.3E-01
Mass-Limit Soil Component of GW Ingestion ROs for All Depths	
Class I	Class II
3.9E+00	3.9E+00

Tier 2 Health-Based Groundwater Objectives Calculated with Part 620 (mg/L) HNTAC/S23 for Carcinogens, HTTAC for Noncarcinogens	
Class I GW _{obj}	Class II GW _{obj}
7.0E-02	7.00E-02
S17 Infinite Source Soil Component of GW Ingestion ROs for Subsurface Soils (mg/kg)	
Class I Subsurface Soils	Class II Subsurface Soils
3.9E-01	3.9E-01
S17 Infinite Source Soil Component of GW Ingestion ROs for Surface Soils (mg/kg)	
Class I Surface Soils	Class II Surface Soils
2.3E-01	2.3E-01
Mass-Limit Soil Component of GW Ingestion ROs for All Depths	
Class I	Class II
3.9E+00	3.9E+00

Chemical: **Lead** Soil pH (if applicable) **0**
 Groundwater pH (if applicable) **0**

CASRN 7439-92-1

Soil Ingestion ROs - All Depths (mg/kg)		
Residential	Industrial/Commerical	Construction Worker
No Data	No Data	No Data

LPC No.:	1930155021
Site Name:	Maier's Grocery (Huck's #131)
Project Manager:	Kuhlman
Date Run:	1/6/2026

Outdoor Inhalation ROs for Organics (mg/kg) Infinite Source - Surface Soils (VF Equations = S8/S9)		
Residential	Industrial/Commerical	Construction Worker
Inorganic	Inorganic	Inorganic

Chemical/Physical Parameters		
Parameter	Value	Unit
S	No Data	mg/L
D _i	No Data	cm ² /s
D _w	No Data	cm ² /s
H'	0.00E+00	unitless
K _{oc}	pH-Specific Kd	cm ³ /g

Outdoor Inhalation ROs for Organics (mg/kg) Infinite Source - Subsurface Soils (VF Equations = S8/S9)		
Residential	Industrial/Commerical	Construction Worker
Inorganic	Inorganic	Inorganic

Carcinogen Toxicity Parameters		
Parameter	Value	Unit
SF _o Residential	No Data	(mg/kg-d) ⁻¹
SF _o I/C and CW	No Data	(mg/kg-d) ⁻¹
URF Residential	No Data	(ug/mg ³) ⁻¹
URF I/C and CW	No Data	(ug/mg ³) ⁻¹

Outdoor Inhalation ROs for Organics (mg/kg) Mass-Limit - All Depths (VF Equations = S26/S27)		
Residential	Industrial/Commerical	Construction Worker
Inorganic	Inorganic	Inorganic

Non-Carcinogen Toxicity Parameters		
Parameter	Value	Unit
RfD	No Data	mg/kg-d
RfD _s	No Data	mg/kg-d
RfC	No Data	mg/m ³
RfC _s	No Data	mg/m ³

Outdoor Inhalation ROs for Organics and Inorganics (mg/kg) - All Depths (Fugitive Dust Equations)		
Residential	Industrial/Commerical	Construction Worker
No Data	No Data	No Data

Use More Stringent of VF ROs and Fugitive Dust ROs for the Outdoor Inhalation ROs

Site-Specific Soil Saturation (C _{sat}) Limits S29 (mg/kg)	
Surface C _{sat}	Subsurface C _{sat}
Not Applicable	Not Applicable

Tier 1 Appendix B, Table E Groundwater Ingestion Objectives (mg/L)	
Class I GW _{obj}	Class II GW _{obj}
7.5E-03	1.00E-01
S17 Infinite Source Soil Component of GW Ingestion ROs for Subsurface Soils (mg/kg)	
Class I Subsurface Soils	Class II Subsurface Soils
pH-Specific	pH-Specific
S17 Infinite Source Soil Component of GW Ingestion ROs for Surface Soils (mg/kg)	
Class I Surface Soils	Class II Surface Soils
pH-Specific	pH-Specific
Mass-Limit Soil Component of GW Ingestion ROs for All Depths	
Class I	Class II
4.1E-01	5.5E+00

Tier 2 Health-Based Groundwater Objectives Calculated with Part 620 (mg/L) HNTAC/S23 for Carcinogens, HTTAC for Noncarcinogens	
Class I GW _{obj}	Class II GW _{obj}
No Data	0.00E+00
S17 Infinite Source Soil Component of GW Ingestion ROs for Subsurface Soils (mg/kg)	
Class I Subsurface Soils	Class II Subsurface Soils
pH-Specific	pH-Specific
S17 Infinite Source Soil Component of GW Ingestion ROs for Surface Soils (mg/kg)	
Class I Surface Soils	Class II Surface Soils
pH-Specific	pH-Specific
Mass-Limit Soil Component of GW Ingestion ROs for All Depths	
Class I	Class II
No Data	0.0E+00

Equations of Infiltration Model

Benzene

$$SOIL_{conc} = C_w \cdot \left[K_d + \frac{(\theta_w + \theta_a \cdot H^i)}{\rho_b} \right] \quad \text{Equation S17}$$

$$C_w = DF \cdot GW_{obj} \quad \text{Equation S18}$$

	know	GW _{obj} =	0.005 mg/L		want	GW _{obj} =	0.171 mg/L		
	want	SOIL _{conc} =	0.056 mg/kg		know	SOIL _{conc} =	1.9 mg/kg		> 0.005
		C _w =	0.100 mg/L			C _w =	3.422 mg/L		SS-11
		DF=	20			DF=	20		
		K _d =	0.315 L/kg			K _d =	0.315 L/kg		
		θ _w =	0.303 L _{water} /L _{soil}			θ _w =	0.303 L _{water} /L _{soil}		
		θ _a =	0.143 L _{air} /L _{soil}			θ _a =	0.143 L _{air} /L _{soil}		
		H ⁱ =	2.30E-01			H ⁱ =	2.30E-01		
		ρ _b =	1.398 kg/L			ρ _b =	1.398 kg/L		
		f _{oc} =	0.0063 g/g			f _{oc} =	0.0063 g/g		
		K _{oc} =	50 L/kg			K _{oc} =	50 L/kg		

Ethylbenzene

$$SOIL_{conc} = C_w \cdot \left[K_d + \frac{(\theta_w + \theta_a \cdot H')}{\rho_b} \right] \quad \text{Equation S17}$$

$$C_w = DF \cdot GW_{obj} \quad \text{Equation S18}$$

know	GW _{obj} =	0.005 mg/L	want	GW _{obj} =	1.770 mg/L	< 0.7
want	SOIL _{conc} =	0.056 mg/kg	know	SOIL _{conc} =	20 mg/kg	SS-11
	C _w =	0.100 mg/L		C _w =	35.406 mg/L	
	DF=	20		DF=	20	
	K _d =	0.315 L/kg		K _d =	0.315 L/kg	
	θ _w =	0.303 L _{water} /L _{soil}		θ _w =	0.303 L _{water} /L _{soil}	
	θ _a =	0.143 L _{air} /L _{soil}		θ _a =	0.143 L _{air} /L _{soil}	
	H'=	3.24E-01		H'=	3.24E-01	
	ρ _b =	1.398 kg/L		ρ _b =	1.398 kg/L	
	f _{oc} =	0.0063 g/g		f _{oc} =	0.0063 g/g	
	K _{oc} =	50 L/kg		K _{oc} =	50 L/kg	

Total Xylenes

$$SOIL_{conc} = C_w \cdot \left[K_d + \frac{(\theta_w + \theta_a \cdot H')}{\rho_b} \right] \quad \text{Equation S17}$$

$$C_w = DF \cdot GW_{obj} \quad \text{Equation S18}$$

know $GW_{obj} = 0.005$ mg/L
 want $SOIL_{conc} = 0.056$ mg/kg
 $C_w = 0.100$ mg/L
 $DF = 20$
 $K_d = 0.315$ L/kg
 $\theta_w = 0.303$ L_{water}/L_{soil}
 $\theta_a = 0.143$ L_{air}/L_{soil}
 $H' = 2.71E-01$
 $\rho_b = 1.398$ kg/L
 $f_{oc} = 0.0063$ g/g
 $K_{oc} = 50$ L/kg

want $GW_{obj} = 8.490$ mg/L < 10
 know $SOIL_{conc} = 95$ mg/kg SS-11
 $C_w = 169.807$ mg/L
 $DF = 20$
 $K_d = 0.315$ L/kg
 $\theta_w = 0.303$ L_{water}/L_{soil}
 $\theta_a = 0.143$ L_{air}/L_{soil}
 $H' = 2.71E-01$
 $\rho_b = 1.398$ kg/L
 $f_{oc} = 0.0063$ g/g
 $K_{oc} = 50$ L/kg

MTBE

$$SOIL_{conc} = C_w \cdot \left[K_d + \frac{(\theta_w + \theta_a \cdot H')}{\rho_b} \right] \quad \text{Equation S17}$$

$$C_w = DF \cdot GW_{obj} \quad \text{Equation S18}$$

know $GW_{obj} = 0.005 \text{ mg/L}$
want $SOIL_{conc} = 0.053 \text{ mg/kg}$
 $C_w = 0.100 \text{ mg/L}$
 $DF = 20$
 $K_d = 0.315 \text{ L/kg}$
 $\theta_w = 0.303 \text{ L}_{water}/\text{L}_{soil}$
 $\theta_a = 0.143 \text{ L}_{air}/\text{L}_{soil}$
 $H' = 2.42E-02$
 $\rho_b = 1.398 \text{ kg/L}$
 $f_{oc} = 0.0063 \text{ g/g}$
 $K_{oc} = 50 \text{ L/kg}$

want $GW_{obj} = 0.044 \text{ mg/L}$ <0.07
know $SOIL_{conc} = 0.47 \text{ mg/kg}$ SS-11
 $C_w = 0.880 \text{ mg/L}$
 $DF = 20$
 $K_d = 0.315 \text{ L/kg}$
 $\theta_w = 0.303 \text{ L}_{water}/\text{L}_{soil}$
 $\theta_a = 0.143 \text{ L}_{air}/\text{L}_{soil}$
 $H' = 2.42E-02$
 $\rho_b = 1.398 \text{ kg/L}$
 $f_{oc} = 0.0063 \text{ g/g}$
 $K_{oc} = 50 \text{ L/kg}$

DOMENICO SOLUTE TRANSPORT MODEL CALCULATION (TACO Equation R26) version 1.0b

Exposure Pathway: Groundwater Ingestion
Receptor: Residential
Site Location: 109 South State Street
 Crossville, IL
LUST Incident No: 20091397

SS-11 Benzene

Concentration at the source (Cs)= 1.71E-01 g/cm³water/g/cm³ or mg/L/mg/L

Concentration at a distance X (Cx)= g/cm³water or mg/L

Distance along centerline of the plume coming from the source (X)= 8.5 ft = 259.08 cm

First order degradation constant (lambda)= 9.00E-04 1/day If benzene, lambda=0.0009/day.

Aquifer hydraulic conductivity (K)= 1.56E-05 cm/sec = 1.3478 cm/day

Hydraulic gradient (i)= 0.01669 cm/cm

Total soil porosity (theta T)= 0.446 cm³/cm³

Porosity
 Gravel=0.25
 Sand=0.32
 Silt=0.40
 Clay=0.36

Source width perpendicular to GW flow direction in horizontal plane (Sw)= 106 ft = 3230.9 cm

Source width perpendicular to GW flow direction in vertical plane (Sd)= 10.0 ft = 304.8 cm (assuming complete mixing)

Calculated Parameters

DO NOT ENTER VALUES HERE!

Longitudinal dispersivity Ax= 25.908 cm
 Transverse dispersivity Ay= 8.636 cm
 Vertical dispersivity Az= 1.2954 cm
 Specific discharge U= 0.0504382 cm/day
 Sw/(4*SQRT(Ay*X)) B= 17.076056
 Sd/(2*SQRT(Az*X)) C= 8.3189033
 Error function erf(B)= 1 To determine error function values,
 Error function erf(C)= 1 see F46 & K46 in the linear interpolation section.

Actual B value= 17.076056 Actual C value= 8.3189033

Automatic calculations : Actual erf(B) 1 Actual erf(C)= 1

Solutions

Cx
 5.48E-03 mg/l

Csource
 0.000 mg/l

Computation of erf(x)

Source: Abramowitz, M. and I. A. Stegun, 1972, Handbook of Mathematical Functions, Dover Publications, New York, page 299, formula 7.1.26
 Maximum error in computation = 1.5 x 10⁻⁷

x=	17.0760562	8.318903308
p=	0.3275911	0.3275911
a1=	0.254829592	0.254829592
a2=	-0.28449674	-0.284496736
a3=	1.421413741	1.421413741
a4=	-1.45315203	-1.453152027
a5=	1.061405429	1.061405429
t=	0.151653845	0.268442058
erf(x)=	1	1

DOMENICO SOLUTE TRANSPORT MODEL CALCULATION (TACO Equation R26) version 1.0b

Exposure Pathway: Groundwater Ingestion
Receptor: Residential
Site Location: 109 South State Street
 Crossville, IL
LUST Incident No: 20091397

MW-2 Benzene

Concentration at the source (Cs)= 2.20E-02 g/cm³water/g/cm³water or mg/L/mg/L

Concentration at a distance X (Cx)= g/cm³water or mg/L

Distance along centerline of the plume coming from the source (X)= 3.0 ft = 91.44 cm

First order degradation constant (lambda)= 0.0009 1/day If benzene, lambda=0.0009/day.

Aquifer hydraulic conductivity (K)= 1.56E-05 cm/sec = 1.3478 cm/day

Hydraulic gradient (i)= 0.01669 cm/cm

Total soil porosity (theta T)= 0.446 cm³/cm³

Porosity
 Gravel=0.25
 Sand=0.32
 Silt=0.40
 Clay=0.36

Source width perpendicular to GW flow direction in horizontal plane (Sw)= 106 ft = 3230.9 cm

Source width perpendicular to GW flow direction in vertical plane (Sd)= 10.0 ft = 304.8 cm (assuming complete mixing)

Calculated Parameters

DO NOT ENTER VALUES HERE!

Longitudinal dispersivity Ax= 9.144 cm
 Transverse dispersivity Ay= 3.048 cm
 Vertical dispersivity Az= 0.4572 cm
 Specific discharge U= 0.0504382 cm/day
 Sw/(4*SQRT(Ay*X)) B= 48.382159
 Sd/(2*SQRT(Az*X)) C= 23.570226
 Error function erf(B)= 1 To determine error function values,
 Error function erf(C)= 1 see F46 & K46 in the linear interpolation section.

Actual B value= 48.382159 Actual C value= 23.570226

Automatic calculations : Actual erf(B) 1 Actual erf(C)= 1

Solutions

Cx
 5.28E-03 mg/l

Csource
 0.000 mg/l

Computation of erf(x)

Source: Abramowitz, M. and I. A. Stegun, 1972, Handbook of Mathematical Functions, Dover Publications, New York, page 299, formula 7.1.26
 Maximum error in computation = 1.5 x 10⁻⁷

x=	48.3821592	23.57022604
p=	0.3275911	0.3275911
a1=	0.254829592	0.254829592
a2=	-0.28449674	-0.284496736
a3=	1.421413741	1.421413741
a4=	-1.45315203	-1.453152027
a5=	1.061405429	1.061405429
t=	0.059348714	0.114660539
erf(x)=	1	1

DOMENICO SOLUTE TRANSPORT MODEL CALCULATION (TACO Equation R26) version 1.0b

Exposure Pathway: Groundwater Ingestion
Receptor: Residential
Site Location: 109 South State Street
 Crossville, IL
LUST Incident No: 20091397

MW-3 Benzene

Concentration at the source (Cs)= 2.70E-01 g/cm³water/cm³ or mg/L/mg/L

Concentration at a distance X (Cx)= g/cm³water or mg/L

Distance along centerline of the plume coming from the source (X)= 10.0 ft = 304.8 cm

First order degradation constant (lambda)= 0.0009 1/day If benzene, lambda=0.0009/day.

Aquifer hydraulic conductivity (K)= 1.56E-05 cm/sec = 1.3478 cm/day

Hydraulic gradient (i)= 0.01669 cm/cm

Total soil porosity (theta T)= 0.446 cm³/cm³

Porosity
 Gravel=0.25
 Sand=0.32
 Silt=0.40
 Clay=0.36

Source width perpendicular to GW flow direction in horizontal plane (Sw)= 106 ft = 3230.9 cm

Source width perpendicular to GW flow direction in vertical plane (Sd)= 10.0 ft = 304.8 cm (assuming complete mixing)

Calculated Parameters

DO NOT ENTER VALUES HERE!

Longitudinal dispersivity Ax= 30.48 cm
 Transverse dispersivity Ay= 10.16 cm
 Vertical dispersivity Az= 1.524 cm
 Specific discharge U= 0.0504382 cm/day
 Sw/(4*SQRT(Ay*X)) B= 14.514648
 Sd/(2*SQRT(Az*X)) C= 7.0710678
 Error function erf(B)= 1 To determine error function values,
 Error function erf(C)= 1 see F46 & K46 in the linear interpolation section.

Actual B value= 14.514648 Actual C value= 7.0710678

Automatic calculations : Actual erf(B) 1 Actual erf(C)= 1

Solutions

Cx 5.41E-03 mg/l

Csource 0.000 mg/l

Computation of erf(x)

Source: Abramowitz, M. and I. A. Stegun, 1972, Handbook of Mathematical Functions, Dover Publications, New York, page 299, formula 7.1.26
 Maximum error in computation = 1.5 x 10⁻⁷

x=	14.5146478	7.071067812
p=	0.3275911	0.3275911
a1=	0.254829592	0.254829592
a2=	-0.28449674	-0.284496736
a3=	1.421413741	1.421413741
a4=	-1.45315203	-1.453152027
a5=	1.061405429	1.061405429
t=	0.173765889	0.301530065
erf(x)=	1	1

DOMENICO SOLUTE TRANSPORT MODEL CALCULATION (TACO Equation R26) version 1.0b

Exposure Pathway: Groundwater Ingestion
Receptor: Residential
Site Location: 109 South State Street
 Crossville, IL
LUST Incident No: 20091397

MW-5 Benzene

Concentration at the source (Cs)= 8.60E-03 g/cm³water or mg/L

Concentration at a distance X (Cx)= g/cm³water or mg/L

Distance along centerline of the plume coming from the source (X)= 1.0 ft = 30.48 cm

First order degradation constant (lambda)= 0.0009 1/day If benzene, lambda=0.0009/day.

Aquifer hydraulic conductivity (K)= 1.56E-05 cm/sec = 1.3478 cm/day

Hydraulic gradient (I)= 0.01669 cm/cm

Total soil porosity (theta T)= 0.446 cm³/cm³

Porosity
 Grave=0.25
 Sand=0.32
 Silt=0.40
 Clay=0.36

Source width perpendicular to GW flow direction in horizontal plane (Sw)= 106 ft = 3230.9 cm

Source width perpendicular to GW flow direction in vertical plane (Sd)= 10.0 ft = 304.8 cm (assuming complete mixing)

Calculated Parameters

DO NOT ENTER VALUES HERE!

Longitudinal dispersivity Ax= 3.048 cm
 Transverse dispersivity Ay= 1.016 cm
 Vertical dispersivity Az= 0.1524 cm
 Specific discharge U= 0.0504382 cm/day
 Sw/(4*SQRT(Ay*X)) B= 145.14648
 Sd/(2*SQRT(Az*X)) C= 70.710678
 Error function erf(B)= 1 To determine error function values,
 Error function erf(C)= 1 see F46 & K46 in the linear interpolation section.

Actual B value= 145.14648 Actual C value= 70.710678

Automatic calculations : Actual erf(B) 1 Actual erf(C)= 1

Solutions

Cx 5.13E-03 mg/l

Csource 0.000 mg/l

Computation of erf(x)

Source: Abramowitz, M. and I. A. Stegun, 1972, Handbook of Mathematical Functions, Dover Publications, New York, page 299, formula 7.1.26
 Maximum error in computation = 1.5 x 10⁻⁷

x=	145.146478	70.71067812
p=	0.3275911	0.3275911
a1=	0.254829592	0.254829592
a2=	-0.28449674	-0.284496736
a3=	1.421413741	1.421413741
a4=	-1.45315203	-1.453152027
a5=	1.061405429	1.061405429
t=	0.020597876	0.041383553
erf(x)=	1	1

DOMENICO SOLUTE TRANSPORT MODEL CALCULATION (TACO Equation R26) version 1.0b

Exposure Pathway: Groundwater Ingestion
 Receptor: Residential
 Site Location: 109 South State Street
 Crossville, IL
 LUST Incident No: 20091397

MW 3 MTBE

Concentration at the source (Cs)= 1.20E-01 g/cm³water/g/cm³water or mg/L/mg/L

Concentration at a distance X (Cx)= g/cm³water or mg/L

Distance along centerline of the plume coming from the source (X)= 9.0 ft = 274.32 cm

First order degradation constant (lambda)= 0.0001 1/day If benzene, lambda=0.0009/day.

Aquifer hydraulic conductivity (K)= 1.56E-05 cm/sec = 1.3478 cm/day

Hydraulic gradient (i)= 0.01669 cm/cm

Total soil porosity (theta T)= 0.446 cm³/cm³

Porosity
 Gravel=0.25
 Sand=0.32
 Silt=0.40
 Clay=0.36

Source width perpendicular to GW flow direction in horizontal plane (Sw)= 106 ft = 3230.9 cm

Source width perpendicular to GW flow direction in vertical plane (Sd)= 10.0 ft = 304.8 cm (assuming complete mixing)

Calculated Parameters

DO NOT ENTER VALUES HERE!

Longitudinal dispersivity Ax= 27.432 cm
 Transverse dispersivity Ay= 9.144 cm
 Vertical dispersivity Az= 1.3716 cm
 Specific discharge U= 0.0504382 cm/day
 Sw/(4*SQRT(Ay*X)) B= 16.127386
 Sd/(2*SQRT(Az*X)) C= 7.856742
 Error function erf(B)= 1 To determine error function values,
 Error function erf(C)= 1 see F46 & K46 in the linear interpolation section.

Actual B value= 16.127386 Actual C value= 7.856742

Automatic calculations : Actual erf(B) 1 Actual erf(C)= 1

Solutions

Cx 7.15E-02 mg/l

Csource 0.000 mg/l

Computation of erf(x)

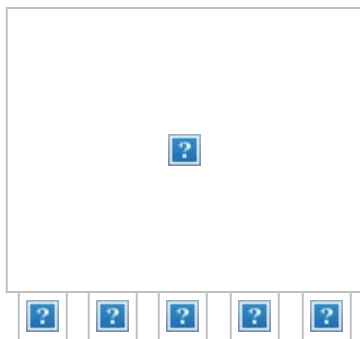
Source: Abramowitz, M. and I. A. Stegun, 1972, Handbook of Mathematical Functions, Dover Publications, New York, page 299, formula 7.1.26
 Maximum error in computation = 1.5 x 10⁻⁷

x=	16.1273864	7.856742013
p=	0.3275911	0.3275911
a1=	0.254829592	0.254829592
a2=	-0.28449674	-0.284496736
a3=	1.421413741	1.421413741
a4=	-1.45315203	-1.453152027
a5=	1.061405429	1.061405429
t=	0.159154868	0.279814301
erf(x)=	1	1

From: [Kuhlman, Eric](#)
To: matt.cwmcompany.com
Cc: [Putrich, Steve](#)
Subject: RE: Maier's Grocery (Huck's #131) - LUST Incident 20091397 -- Offsite Access issue regarding B-7
Date: Thursday, January 8, 2026 3:00:00 PM
Attachments: [image.png](#)
[image.png](#)
[image.png](#)
[image.png](#)
[image.png](#)
[image.png](#)

Thanks Matt, that's what I needed...

So, you're need at least 11 hours for your Senior Project Manager and 9 hours for your Senior Technion to do the field prep, mobilization, and field time to resample MW-3. Well, there's nothing else, I'll make the necessary modifications to the IEPA's response letter.



Eric Kuhlman
Environmental Protection Engineer III
LUST Section, Bureau of Land
217-785-5715
eric.kuhlman@illinois.gov

Join our team: [Illinois EPA Employment](#)

From: matt.cwmcompany.com <matts@cwmcompany.com>
Sent: Thursday, January 8, 2026 2:13 PM
To: Kuhlman, Eric <Eric.Kuhlman@Illinois.gov>
Subject: [External] RE: Maier's Grocery (Huck's #131) - LUST Incident 20091397 -- Offsite Access issue regarding B-7

Eric,

So should we just submit a budget amendment after this one is approved? The new amendment would then include costs for defining the groundwater to the east and off-site correspondence. Let me know.

From what I'm understanding then, the scope of the CAP you currently have would be reduced to simply the groundwater re-sampling of MW-3? I would need field prep, mobilization, and field time to visit the site to collect the sample. Since this was lumped in with the drilling trip, the time we had for this was 14 hr for SR PM and 12 hr for Senior Tech. We can reduce each of those 3 hours. So 11 for SR PM and 9 for SR TECH. Let me know if that works.

Thanks,

Matt Saladino, P.E.
Senior Professional Engineer
CW³M Company, Inc.
701 W. South Grand Avenue, Springfield, Illinois
(217) 522-8001

From: Kuhlman, Eric <Eric.Kuhlman@Illinois.gov>

Sent: Thursday, January 8, 2026 1:39 PM

To: matt cwmcompany.com <matts@cwmcompany.com>

Subject: RE: Maier's Grocery (Huck's #131) - LUST Incident 20091397 -- Offsite Access issue regarding B-7

Okay, here's what we're thinking...

1. Currently, we're modifying the CAP and BUD to remove the proposed re-sampling of soil excavation sample 11 and all activities related to it. Reason being, my TACO calculations excluded most COCs except the 1.9 mg/kg benzene located at soil sample 11 for soil component of groundwater ingestion exposure route. So, you'll need to address this in your next submittal since my modelling calculations showed contamination could potentially migrate beneath IL Route 1 and 14 since I used a radial pattern rather than the pie sliver used in the TACO modelling submitted.
2. We will also be removing the soil gas-vapor sampling and analysis since my Indoor Inhalation Exposure Route Checklist states that an evaluation of this exposure route is not required. It does state, however, that the groundwater plume must be defined to the Class I standards for VOCs, which is why I'm approving the resampling of MW-3. Hopefully, this will resolve things.
3. Finally, I will be modifying the BUD by removing all costs related to the re-sampling of soil sample 11 and the collection of the soil gas-vapor sample adjacent to soil sample 11.

Unfortunately, I cannot find the personnel costs associated with the resampling of MW-3, so you'll need to tell me how long you'll need. Otherwise, you can submit these costs in your next budget.

Respectfully,

Eric Kuhlman
Environmental Protection Engineer III
LUST Section, Bureau of Land



217-785-5715

eric.kuhlman@illinois.gov

Join our team: [Illinois EPA Employment](#)

From: matt cwmcompany.com <matts@cwmcompany.com>

Sent: Thursday, January 8, 2026 12:42 PM

To: Kuhlman, Eric <Eric.Kuhlman@Illinois.gov>

Subject: [External] RE: Maier's Grocery (Huck's #131) - LUST Incident 20091397 -- Offsite Access issue regarding B-7

Eric,

After digging further, I have come to the same conclusion. As noted in the 2013 submittal by CW3M, that off-site boring/well was never advanced due to off-site access denial. At the time, it appeared to be a restaurant called "The Green Onion". It looks like in 2014 we drafted a off-site access affidavit for this property, which was sent to a John Ackerman.

The property is now owned by a Jeffrey Davis who seems to live in Crossville. What I'd like to do is to re-propose off-site access for that property since it's a different owner. Additionally, I think it would be smart to re-sample the groundwater in MW-3 to see if we can even possibly delineate the plume before reaching the roadway- the one and only groundwater sample obtained from MW-3 was taken in 2010 by a previous consultant and the results weren't that high.

Just let me know how you'd like us to proceed.

Thanks,

Matt Saladino, P.E.

Senior Professional Engineer

CW³M Company, Inc.

701 W. South Grand Avenue, Springfield, Illinois

(217) 522-8001

From: Kuhlman, Eric <Eric.Kuhlman@Illinois.gov>

Sent: Thursday, January 8, 2026 9:50 AM

To: matt cwmcompany.com <matts@cwmcompany.com>

Cc: cwm cwmcompany.com <cwm@cwmcompany.com>

Subject: Maier's Grocery (Huck's #131) - LUST Incident 20091397 -- Offsite Access issue regarding B-7

Importance: High

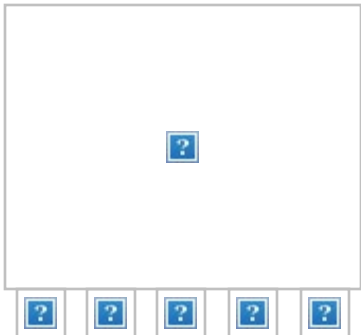
Good morning,

After reviewing the CAP and BUD for the above referenced incident, I noticed that there was an offsite access denial issue regarding soil boring B-7. However, after looking at previously submitted plans and reports, I can't find any mention as to what actions were taken regarding this issue. So, if you have that information, could you send it to me as soon as possible?

Because when I fill out the Indoor Inhalation Exposure Route Checklist, the groundwater plume needs to be defined to Class I standards for VOCs and the groundwater contamination encountered within MW-3 was never defined to the east across IL Routes 1 and 14, which is probably due to the offsite access denial. However, I'm just speculating.

With that said, the extended IEPA response date for this review is Saturday, January 10th and I need to send the appropriate response letter for managerial approval before EOD today.

Respectfully,



Eric Kuhlman

Environmental Protection Engineer III

LUST Section, Bureau of Land

217-785-5715

eric.kuhlman@illinois.gov

Join our team: [Illinois EPA Employment](#)

State of Illinois - CONFIDENTIALITY NOTICE: The information contained in this communication is confidential, may be attorney-client privileged or attorney work product, may constitute inside information or internal deliberative staff communication, and is intended only for the use of the addressee. Unauthorized use, disclosure or copying of this communication or any part thereof is strictly prohibited and may be unlawful. If you have received this communication in error, please notify the sender immediately by return e-mail and destroy this communication and all copies thereof, including all attachments. Receipt by an unintended recipient does not waive attorney-client privilege, attorney work product privilege, or any other exemption from disclosure.

From: [Kuhlman, Eric](#)
To: matt.cwmcompany.com
Cc: [Carol Rowe](#); [Putrich, Steve](#)
Subject: RE: Maier's Grocery (Huck's #131) - LUST Incident 20091397 -- Offsite Access issue regarding B-7
Date: Friday, January 9, 2026 8:40:00 AM
Attachments: [image.png](#)
[image.png](#)
[image.png](#)
[image.png](#)
[image.png](#)
[image.png](#)
[image.png](#)

Good morning,

Please be aware, after referring with several LUST Claims personnel, we believe the following line items in the Consulting Personnel Costs of the Budget are unreasonable as submitted:

1. The budget proposed 28 hours for the Senior Project Manager for CAP Amendment Design and Preparation. However, after comparing this CAP with the previously submitted CAP dated 11/17/2015, the material within the body of the narrative is remarkable similar. Granted there are some negligible differences on most pages, miniscule in fact. However, by my count, there are only 3-4 pages (Pages 6-9) that look new. With that said, I do not believe it took 28 hours to compile this CAP.
2. The budget proposed 16 hours for Senior Account technician for CA Reimbursements Preparation, Calculations, and Inputs. I can only assume this means Claim preparation. Regardless, after speaking with several LUST Claim colleagues, we believe the hours proposed are too high, when you consider that the budget forms have already been completed and will be added as part of the LUST Claim. So, we don't believe it will take 16 hours to compile the CA Claim.

Now, as you know, I can either approve line items as submitted, or I can deny them completely. That's why I'm reaching out so we can come to an agreeable compromise that is fair. While I understand that these budgets are estimates; however, my job is to get a fair price for your services.

With that said, I hope we can come to an understanding so that I may issue the appropriate response letter before today's end. Unfortunately, we don't have a lot of time.

Sincerely,

Eric Kuhlman
Environmental Protection Engineer III
LUST Section, Bureau of Land
217-785-5715



eric.kuhlman@illinois.gov

Join our team: [Illinois EPA Employment](#)

From: matt cwmcompany.com <matts@cwmcompany.com>
Sent: Thursday, January 8, 2026 2:13 PM
To: Kuhlman, Eric <Eric.Kuhlman@Illinois.gov>
Subject: [External] RE: Maier's Grocery (Huck's #131) - LUST Incident 20091397 -- Offsite Access issue regarding B-7

Eric,

So should we just submit a budget amendment after this one is approved? The new amendment would then include costs for defining the groundwater to the east and off-site correspondence. Let me know.

From what I'm understanding then, the scope of the CAP you currently have would be reduced to simply the groundwater re-sampling of MW-3? I would need field prep, mobilization, and field time to visit the site to collect the sample. Since this was lumped in with the drilling trip, the time we had for this was 14 hr for SR PM and 12 hr for Senior Tech. We can reduce each of those 3 hours. So 11 for SR PM and 9 for SR TECH. Let me know if that works.

Thanks,

Matt Saladino, P.E.
Senior Professional Engineer
CW³M Company, Inc.
701 W. South Grand Avenue, Springfield, Illinois
(217) 522-8001

From: Kuhlman, Eric <Eric.Kuhlman@Illinois.gov>
Sent: Thursday, January 8, 2026 1:39 PM
To: matt cwmcompany.com <matts@cwmcompany.com>
Subject: RE: Maier's Grocery (Huck's #131) - LUST Incident 20091397 -- Offsite Access issue regarding B-7

Okay, here's what we're thinking...

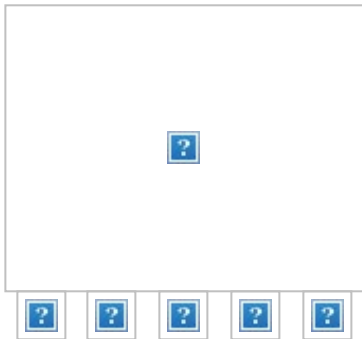
1. Currently, we're modifying the CAP and BUD to remove the proposed re-sampling of soil

excavation sample 11 and all activities related to it. Reason being, my TACO calculations excluded most COCs except the 1.9 mg/kg benzene located at soil sample 11 for soil component of groundwater ingestion exposure route. So, you'll need to address this in your next submittal since my modelling calculations showed contamination could potentially migrate beneath IL Route 1 and 14 since I used a radial pattern rather than the pie sliver used in the TACO modelling submitted.

2. We will also be removing the soil gas-vapor sampling and analysis since my Indoor Inhalation Exposure Route Checklist states that an evaluation of this exposure route is not required. It does state, however, that the groundwater plume must be defined to the Class I standards for VOCs, which is why I'm approving the resampling of MW-3. Hopefully, this will resolve things.
3. Finally, I will be modifying the BUD by removing all costs related to the re-sampling of soil sample 11 and the collection of the soil gas-vapor sample adjacent to soil sample 11.

Unfortunately, I cannot find the personnel costs associated with the resampling of MW-3, so you'll need to tell me how long you'll need. Otherwise, you can submit these costs in your next budget.

Respectfully,



Eric Kuhlman

Environmental Protection Engineer III

LUST Section, Bureau of Land

217-785-5715

eric.kuhlman@illinois.gov

Join our team: [Illinois EPA Employment](#)

From: matt cwmcompany.com <matts@cwmcompany.com>

Sent: Thursday, January 8, 2026 12:42 PM

To: Kuhlman, Eric <Eric.Kuhlman@Illinois.gov>

Subject: [External] RE: Maier's Grocery (Huck's #131) - LUST Incident 20091397 -- Offsite Access issue regarding B-7

Eric,

After digging further, I have come to the same conclusion. As noted in the 2013 submittal by CW3M,

that off-site boring/well was never advanced due to off-site access denial. At the time, it appeared to be a restaurant called "The Green Onion". It looks like in 2014 we drafted a off-site access affidavit for this property, which was sent to a John Ackerman.

The property is now owned by a Jeffrey Davis who seems to live in Crossville. What I'd like to do is to re-propose off-site access for that property since it's a different owner. Additionally, I think it would be smart to re-sample the groundwater in MW-3 to see if we can even possibly delineate the plume before reaching the roadway- the one and only groundwater sample obtained from MW-3 was taken in 2010 by a previous consultant and the results weren't that high.

Just let me know how you'd like us to proceed.

Thanks,

Matt Saladino, P.E.
Senior Professional Engineer
CW³M Company, Inc.
701 W. South Grand Avenue, Springfield, Illinois
(217) 522-8001

From: Kuhlman, Eric <Eric.Kuhlman@Illinois.gov>
Sent: Thursday, January 8, 2026 9:50 AM
To: matt cwmcompany.com <matts@cwmcompany.com>
Cc: cwm cwmcompany.com <cwm@cwmcompany.com>
Subject: Maier's Grocery (Huck's #131) - LUST Incident 20091397 -- Offsite Access issue regarding B-7
Importance: High

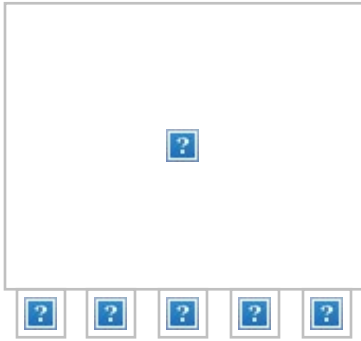
Good morning,

After reviewing the CAP and BUD for the above referenced incident, I noticed that there was an offsite access denial issue regarding soil boring B-7. However, after looking at previously submitted plans and reports, I can't find any mention as to what actions were taken regarding this issue. So, if you have that information, could you send it to me as soon as possible?

Because when I fill out the Indoor Inhalation Exposure Route Checklist, the groundwater plume needs to be defined to Class I standards for VOCs and the groundwater contamination encountered within MW-3 was never defined to the east across IL Routes 1 and 14, which is probably due to the offsite access denial. However, I'm just speculating.

With that said, the extended IEPA response date for this review is Saturday, January 10th and I need to send the appropriate response letter for managerial approval before EOD today.

Respectfully,



Eric Kuhlman

Environmental Protection Engineer III

LUST Section, Bureau of Land

217-785-5715

eric.kuhlman@illinois.gov

Join our team: [Illinois EPA Employment](#)

State of Illinois - CONFIDENTIALITY NOTICE: The information contained in this communication is confidential, may be attorney-client privileged or attorney work product, may constitute inside information or internal deliberative staff communication, and is intended only for the use of the addressee. Unauthorized use, disclosure or copying of this communication or any part thereof is strictly prohibited and may be unlawful. If you have received this communication in error, please notify the sender immediately by return e-mail and destroy this communication and all copies thereof, including all attachments. Receipt by an unintended recipient does not waive attorney-client privilege, attorney work product privilege, or any other exemption from disclosure.



Illinois Environmental Protection Agency

2520 West Iles Avenue • P.O. Box 19276 • Springfield, Illinois • 62794-9276 • 217-782-3397

JB Pritzker, Governor

James Jennings, Acting Director

(217) 524-3300

CERTIFIED MAIL

9589 0710 5270 0389 6412 97

JAN 09 2026

Landon Bayley
Martin & Bayley, Inc.
1311A West Main Street
Carmi, IL 62821

Re: 1930155021 -- White County
Crossville / Maier's Grocery (Huck's #131)
109 South State Street
Leaking UST Incident 20091397
Leaking UST Technical File

Dear Mr. Bayley:

The Illinois Environmental Protection Agency (Illinois EPA) has reviewed the Corrective Action Plan (plan) submitted for the above-referenced incident. This plan, dated July 8, 2025, was received by the Illinois EPA on July 14, 2025. Citations in this letter are from the Environmental Protection Act (415 ILCS 5) (Act) and Title 35 of the Illinois Administrative Code (35 Ill. Adm. Code).

The Illinois EPA requires modification of the plan; therefore, the plan is conditionally approved with the Illinois EPA's modifications. The following modifications are necessary, in addition to those provisions already outlined in the plan, to demonstrate compliance with Title XVI of the Act (Sections 57.7(b)(2) and 57.7(c) of the Act and 35 Ill. Adm. Code 734.505(b) and 734.510(a)):

1. The plan proposed to re-sample the early action wall sample 11 at a depth of 6 feet below ground surface with sampling and analysis between the 5-10-foot sampling interval.

However, these activities, while technically acceptable, exceed the minimum requirements of the Act. The Illinois EPA's TACO calculations indicated that all the chemicals of concern encountered in early action wall sample 11 can be excluded from consideration except for benzene as it relates to the soil component of groundwater ingestion exposure route.

2. The plan proposed a soil gas-vapor sample be collected adjacent to the early action wall sample 11 to a depth of 5 feet below ground surface.

However, these activities, while technically acceptable, exceed the minimum requirements of the Act. The re-sampling of the monitoring well MW-3 will likely resolve this issue since

2125 S. First Street, Champaign, IL 61820 • 217-278-5800
1101 Eastport Plaza Dr., Suite 100, Collinsville, IL 62234 • 618-346-5120
595 S. State Street, Elgin, IL 60123 • 847-608-3131
412 SW Washington Street, Suite D, Peoria, IL 61602 • 309-671-3022

115 S. LaSalle Street, Suite 2203, Chicago, IL 60603
9511 Harrison Street, Des Plaines, IL 60016 • 847-294-4000
2309 W. Main Street, Suite 116, Marion, IL 62959 • 618-993-7200
4302 N. Main Street, Rockford, IL 61103 • 815-987-7760

Please print on recycled paper.

000932

the chemicals of concern found within MW-3 are expected to have naturally attenuated and will require no further remediation.

Please note that all activities associated with the remediation of this release proposed in the plan must be executed in accordance with all applicable regulatory and statutory requirements, including compliance with the proper permits.

In addition, the budget is modified pursuant to Sections 57.7(b)(3) and 57.7(c) of the Act and 35 Ill. Adm. Code 734.505(b) and 734.510(b). Based on the modifications listed in Section 2 of Attachment A, the amounts listed in Section 1 of Attachment A have been approved. Please note that the costs must be incurred in accordance with the approved plan. Be aware that the amount of payment from the Fund may be limited by Sections 57.7(c), 57.8(d), 57.8(e), and 57.8(g) of the Act, as well as 35 Ill. Adm. Code 734.630 and 734.655.

If the owner or operator agrees with the Illinois EPA's modifications, submittal of an amended plan and/or budget, if applicable, is not required (Section 57.7(c) of the Act).

NOTE: The plan proposes activities that are technically acceptable as modified in this letter. However, for the purpose of payment from the Underground Storage Tank Fund, some of the activities are in excess of those necessary to meet the minimum requirements of the Act and regulations. Owners and operators are advised that they may not be entitled to full payment for this reason. The Illinois EPA will review your complete request for partial or final payment from the Fund after it is submitted to the Illinois EPA. In addition, please note that amended plans and/or budgets must be submitted and approved prior to the issuance of a No Further Remediation (NFR) Letter. Costs associated with a plan or budget that have not been approved prior to the issuance of an NFR Letter will not be paid.

The activities in excess of those necessary to meet the minimum requirements of the Act and regulations are referenced in Attachment A. While it is technically acceptable that these activities be performed, payment from the Fund is not approved.

Further, pursuant to 35 Ill. Adm. Code 734.145, it is required that the Illinois EPA be notified of field activities prior to the date the field activities take place. This notice must include a description of the field activities to be conducted; the name of the person conducting the activities; and the date, time, and place the activities will be conducted and shall be made to EPA.FieldNotifications@illinois.gov. This notification of field activities must be provided at least two weeks prior to the scheduled field activities.

Pursuant to Sections 57.7(b)(4) and 35 Ill. Adm. Code 734.305 and 734.335(c), the Illinois EPA requires that a Corrective Action Completion Report that achieves compliance with applicable remediation objectives be submitted on or before July 9, 2026 to:

Page 3

Illinois Environmental Protection Agency
Bureau of Land - #24
Leaking Underground Storage Tank Section
2520 West Iles Avenue
Post Office Box 19276
Springfield, IL 62794-9276

Please submit all correspondence in duplicate and include the Re: block shown at the beginning of this letter.

An underground storage tank system owner or operator may appeal this decision to the Illinois Pollution Control Board. Appeal rights are attached.

If you have any questions or need further assistance, please contact the undersigned at (217) 785-5715 or at eric.kuhlman@illinois.gov.

Sincerely,



Eric Kuhlman
Project Manager
Leaking Underground Storage Tank Section
Bureau of Land

SP:

Attachments: Attachment A
Appeal Rights

c: Carol Rowe, CWM Company, Inc. (electronic copy), cwm@cwmcompany.com
BOL File

000934

Appeal Rights

An underground storage tank owner or operator may appeal this final decision to the Illinois Pollution Control Board pursuant to Sections 40 and 57.7(c)(4) of the Act by filing a petition for a hearing within 35 days after the date of issuance of the final decision. However, the 35-day period may be extended for a period not to exceed 90 days by written notice from the owner or operator and the Illinois EPA within the initial 35-day appeal period. If the owner or operator wishes to receive a 90-day extension, a written request that includes a statement of the date the final decision was received, along with a copy of this decision, must be sent to the Illinois EPA as soon as possible.

For information regarding the filing of an appeal, please contact:

Clerk of the Board
Illinois Pollution Control Board
60 East Van Buren Street, Suite 630
Chicago, IL 60605
(312) 814-3461

For information regarding the filing of an extension, please contact:

Illinois Environmental Protection Agency
Division of Legal Counsel
2520 West Iles Avenue
PO Box 19276
Springfield, IL 62794-9276
(217) 782-5544

Attachment A

Re: 1930155021 -- White County
Crossville / Maier's Grocery (Huck's #131)
109 South State Street
Leaking UST Incident 2091397
Leaking UST Technical File

SECTION 1

Based on the modifications in Section 2 of this Attachment A, the following amounts have been approved:

\$0.00	Drilling and Monitoring Well Costs
\$201.56	Analytical Costs
\$0.00	Remediation and Disposal Costs
\$0.00	UST Removal and Abandonment Costs
\$0.00	Paving, Demolition, and Well Abandonment Costs
\$6,410.92	Consulting Personnel Costs
\$365.80	Consultant's Materials Costs

Handling charges will be determined at the time an application for payment is reviewed by the Illinois EPA. The amount of allowable handling charges will be determined in accordance with Section 57.1(a) of the Environmental Protection Act (415 ILCS 5) (Act) and 35 Illinois Administrative Code (35 Ill. Adm. Code) 734.635.

SECTION 2

1. \$1,883.31 for Drilling Costs, which exceed the minimum requirements necessary to comply with the Act. Costs associated with site investigation and corrective action activities and associated materials or services exceeding the minimum requirements necessary to comply with the Act are not eligible for payment from the Fund pursuant to Section 57.7(c)(3) of the Act and 35 Ill. Adm. Code 734.630(o).

The plan proposed drilling costs for resampling Early Action Wall Sample 11 that exceeds the minimum requirements necessary to comply with the Act. Such costs are not eligible for payment from the Fund since the chemical exceedances found within Early Action Wall Sample 11 can be excluded using the IEPA's TACO calculations.

2. \$8.48 for costs that are based on mathematical errors. Such costs are ineligible for payment from the Fund pursuant to 35 Ill. Adm. Code 734.630(bb). In addition, such costs are not approved pursuant to Section 57.7(c)(3) of the Act because they are not reasonable.

Please be aware, there is a discrepancy in the Total Analytical Costs and the Budget form in the amount of \$8.48. The Budget Summary form shows the amount being \$858.15 and the Total Analytical Costs is in the amount of \$849.67. Therefore, the Illinois EPA deducted \$8.48 from the Total Analytical s on the Budget Summary form.

3. \$130.79 for Analytical Costs, which exceed the minimum requirements necessary to comply with the Act. Costs associated with site investigation and corrective action activities and associated materials or services exceeding the minimum requirements necessary to comply with the Act are not eligible for payment from the Fund pursuant to Section 57.7(c)(3) of the Act and 35 Ill. Adm. Code 734.630(o).

The plan proposed laboratory analysis costs for BETX soil sample with MTBE that exceeds the minimum requirements necessary to comply with the Act. Such costs are not eligible for payment from the Fund since the chemical exceedances found within Early Action Wall Sample 11 can be excluded using the IEPA's TACO calculations.

4. \$425.00 for Analytical Costs, which exceed the minimum requirements necessary to comply with the Act. Costs associated with site investigation and corrective action activities and associated materials or services exceeding the minimum requirements necessary to comply with the Act are not eligible for payment from the Fund pursuant to Section 57.7(c)(3) of the Act and 35 Ill. Adm. Code 734.630(o).

The plan proposed laboratory analysis costs for materials for a soil gas-vapor sample that exceeds the minimum requirements necessary to comply with the Act. Such costs are not eligible for payment from the Fund since an evaluation of the Indoor Inhalation Exposure Route is not required as this time.

5. \$15.39 for Analytical Costs, which exceed the minimum requirements necessary to comply with the Act. Costs associated with site investigation and corrective action activities and associated materials or services exceeding the minimum requirements necessary to comply with the Act are not eligible for payment from the Fund pursuant to Section 57.7(c)(3) of the Act and 35 Ill. Adm. Code 734.630(o).

The plan proposed laboratory analysis costs for purge-and-trap sample used to resample Early Action Wall Sample 11 that exceeds the minimum requirements necessary to comply with the Act. Such costs are not eligible for payment from the Fund since the chemical exceedances found within Early Action Wall Sample 11 can be excluded using the IEPA's TACO calculations.

6. \$76.93 for costs for Analytical Costs, which exceed the minimum requirements necessary to comply with the Act. Costs associated with site investigation and corrective action activities and associated materials or services exceeding the minimum requirements necessary to comply with the Act are not eligible for payment from the Fund pursuant to Section 57.7(c)(3) of the Act and 35 Ill. Adm. Code 734.630(o).

The plan proposed laboratory analysis costs for sample shipping per sampling event used to resample Early Action Wall Sample 11 that exceeds the minimum requirements necessary to comply with the Act. Such costs are not eligible for payment from the Fund since the chemical exceedances found within Early Action Wall Sample 11 can be excluded using the IEPA's TACO calculations.

7. \$4,394.32 for Consulting Personnel costs that are not reasonable as submitted. Such costs are ineligible for payment from the Fund pursuant to Section 57.7(c)(3) of the Act and 35 Ill. Adm. Code 734.630(dd).

The budget proposed 28 hours for the Senior Project Manager to design and prepare the Corrective Action Plan Amendment; however, the Illinois EPA believes these costs to be unreasonable since there are only 3-4 pages that appear to contain new information when compared with previously submitted plans. Therefore, the Illinois EPA has deducted all such costs.

8. \$470.82 for Consulting Personnel costs, which exceed the minimum requirements necessary to comply with the Act. Costs associated with site investigation and corrective action activities and associated materials or services exceeding the minimum requirements necessary to comply with the Act are not eligible for payment from the Fund pursuant to Section 57.7(c)(3) of the Act and 35 Ill. Adm. Code 734.630(o).

The plan proposed consulting personnel costs for resampling Early Action Wall Sample 11 that exceeds the minimum requirements necessary to comply with the Act. Such costs are not eligible for payment from the Fund since the chemical exceedances found within Early Action Wall Sample 11 can be excluded using the IEPA's TACO calculations.

However, in an email dated January 8, 2026 between Matt Saladino of CWM Company, Inc. and Eric Kuhlman of Illinois EPA, it was agreed that 3 hours would be removed from the total costs for the field activities proposed for resampling Early Action Wall Sample 11 and for the collection and analysis of the soil gas-vapor sample proposed.

9. \$306.00 for Consulting Personnel costs, which exceed the minimum requirements necessary to comply with the Act. Costs associated with site investigation and corrective action activities and associated materials or services exceeding the minimum requirements necessary to comply with the Act are not eligible for payment from the Fund pursuant to Section 57.7(c)(3) of the Act and 35 Ill. Adm. Code 734.630(o).

The plan proposed consulting personnel costs for resampling Early Action Wall Sample 11 that exceeds the minimum requirements necessary to comply with the Act. Such costs are not eligible for payment from the Fund since the chemical exceedances found within Early Action Wall Sample 11 can be excluded using the IEPA's TACO calculations.

However, in an email dated January 8, 2026 between Matt Saladino of CWM Company, Inc. and Eric Kuhlman of Illinois EPA, it was agreed that 3 hours would be removed from the total costs for the field activities proposed for resampling Early Action Wall Sample 11 and for the collection and analysis of the soil gas-vapor sample proposed.

10. \$627.76 for Consulting Personnel costs that are not reasonable as submitted. Such costs are ineligible for payment from the Fund pursuant to Section 57.7(c)(3) of the Act and 35 Ill. Adm. Code 734.630(dd).

The plan proposed 4 hours for the Senior Project Manager to correspond with Illinois EPA, their client, the property owner, and IEPA field notifications. Such costs are ineligible for

payment from the Fund since such costs are indirect corrective action costs for personnel, materials, service, or equipment charged as direct costs.

11. \$941.64 for Consulting Personnel costs that are not reasonable as submitted. Such costs are ineligible for payment from the Fund pursuant to Section 57.7(c)(3) of the Act and 35 Ill. Adm. Code 734.630(dd).

The plan proposed 6 hours for Senior Project Manager for TACO Tier 2 Clean-Up Objectives development and updating data parameters. However, the Illinois EPA is of the opinion that had the TACO calculations been utilized correctly then there would have been no need to propose additional soil sampling and analysis adjacent to early action wall sample 11 since most, if not all, of the exposure routes would have been addressed. Therefore, the Illinois EPA believes that the Consulting Personnel Costs associated with development and update of the TACO Tier 2 Clean-Up Objectives should be deducted since they were not utilized.

12. \$470.82 for Consulting Personnel costs that are not reasonable as submitted. Such costs are ineligible for payment from the Fund pursuant to Section 57.7(c)(3) of the Act and 35 Ill. Adm. Code 734.630(dd).

The plan proposed 3 hours for Senior Project Manager for contaminant transport modelling and assessment of contamination levels/plume. However, the groundwater modelling calculations submitted are incorrect since the "old" hydraulic conductivity value was used in the calculations and the groundwater contamination should have been modelled in a radial pattern. As such, additional groundwater modelling calculations and several TACO drawings will need to be updated and submitted for technical review.

13. \$1,380.96 for Consulting Personnel costs that are not reasonable as submitted. Such costs are ineligible for payment from the Fund pursuant to Section 57.7(c)(3) of the Act and 35 Ill. Adm. Code 734.630(dd).

The budget proposed 16 hours for the Senior Account Technician to prepare the Corrective Action Reimbursement Claim; however, the Illinois EPA believes the number of hours proposed are too high, when you consider that the budget forms have already been completed and will be added as part of the LUST Claim. Therefore, the Illinois EPA has deducted all such costs.

14. \$75.00 for Consultant's Materials costs, which exceed the minimum requirements necessary to comply with the Act. Costs associated with site investigation and corrective action activities and associated materials or services exceeding the minimum requirements necessary to comply with the Act are not eligible for payment from the Fund pursuant to Section 57.7(c)(3) of the Act and 35 Ill. Adm. Code 734.630(o).

The plan proposed consultant's materials costs for PID for monitoring during drilling and sampling activities that exceeds the minimum requirements necessary to comply with the Act. Such costs are not eligible for payment from the Fund since soil investigation activities were not approved in the plan.

15. \$7.70 for vehicle costs that lack supporting documentation. Such costs are ineligible for payment from the Fund pursuant to 35 Ill. Adm. Code 734.630(cc). Since there is no supporting documentation of costs, the Illinois EPA cannot determine that costs will not be used for activities and associated materials or services exceeding the minimum requirements necessary to comply with the Act. Therefore, such costs are not approved pursuant to Section 57.7(c)(3) of the Act and 35 Ill. Adm. Code 734.630(o).

Pursuant to 35 Ill. Adm. Code 734.850(b), costs associated with activities that do not have a maximum payment amount set forth in Subpart H of 35 Ill. Adm. Code 734 must be determined on a site-specific basis, and the owner or operator must demonstrate to the Illinois EPA the amounts sought for reimbursement are reasonable.

In addition, without supporting documentation, the rate requested for vehicle costs are unreasonable as submitted. Such costs are ineligible for payment from the Fund pursuant to Section 57.7(c)(3) of the Act and 35 Ill. Adm. Code 734.630(dd).

The Illinois EPA will reimburse for mileage at a rate of \$0.70 per mile when sufficient documentation has not been submitted for vehicle costs. Based on the round-trip mileage from the consultant's office to the site location of 404 miles per trip and a total of 1 trip, a proposed allowable reimbursement amount is \$282.80. Based on this, \$7.70 is being deducted from the consultant's materials costs portion of the budget.