

State of Wisconsin
DEPARTMENT OF NATURAL RESOURCES
2984 Shawano Avenue
Green Bay WI 54313-6727

Scott Walker, Governor
Cathy Stepp, Secretary
Telephone 608-266-2621
Toll Free 1-888-936-7463
TTY Access via relay - 711



September 14, 2016

Mr. Jason Smith
Corporate Environmental Director
Tecumseh Products Company
2700 West Wood Street
Paris TN 38242

Mr. Edward Jones
c/o Rightway Fasteners Inc.
7945 South International Drive
Columbus IN 47201

KEEP THIS DOCUMENT WITH YOUR PROPERTY RECORDS

SUBJECT: Final Case Closure
Tecumseh- Fill Area @ MW-1, 1604 Michigan Ave., New Holstein, WI
DNR BRRTS Activity #: 02-08-193776

Dear Mr. Smith and Mr. Jones:

The Department of Natural Resources (DNR) considers Tecumseh- Fill Area @ MW-1 closed. No further investigation or remediation is required at this time. Provide this letter to anyone who purchases this property from you.

This final closure decision is based on the correspondence and data provided, and is issued under ch. NR 726, Wis. Adm. Code. The Northeast Region Project Manager reviewed the request for closure on August 4, 2004. The DNR reviews environmental remediation cases for compliance with state laws and standards to maintain consistency in the closure of these cases. A conditional closure letter was issued by the DNR on August 4, 2004, and documentation that the conditions in that letter were met was received on August 30, 2012.

This case was an investigation of contaminated soil fill on the northeast portion of the Tecumseh Products Company facility. Limited contamination including the PCB Aroclor 1254 was identified in the area however it was determined that further investigation was not warranted at the time of closure review.

Some PCB contamination remains in the soil in the vicinity of soil sample location GP-6 (Figure 1, Site Layout, Key Environmental, May 1, 2003). If this soil is excavated in the future, the property owner or right-of-way holder at the time of excavation must determine if contamination remains. If contamination is present, the property owner or right-of-way holder at the time of

FORMER UNDERGROUND STORAGE TANK IDENTIFICATIONS			
TANK ID	CAPACITY	CONTENTS	REMOVED
TA-20	2,000 GALLON	90% UNLEADED GASOLINE & 10% ISOPROPYL ALCOHOL	07/29/92
TA-21	2,000 GALLON	90% UNLEADED GASOLINE & 10% ISOPROPYL ALCOHOL	10/30/91
TA-26	300 GALLON	UNLEADED GASOLINE	07/30/91

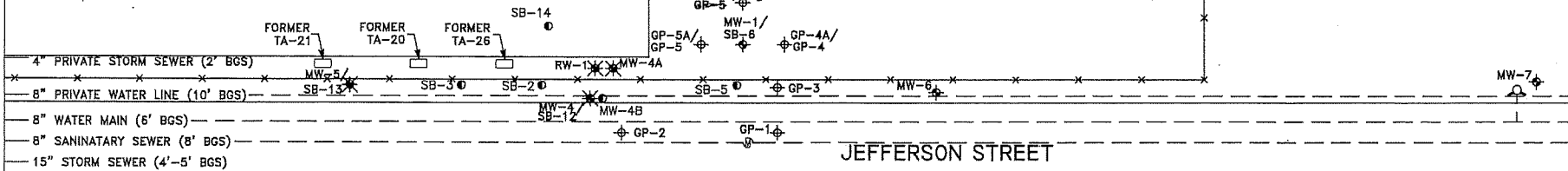
TECUMSEH PRODUCTS
COMPANY

FENCE

GRAVEL
PARKING
AREA

TAFT AVENUE

MW-12/
B-17



JEFFERSON STREET

MW-8

MW-14/
B-19

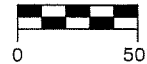
MW-13/
B-18

LEGEND

- FIRE HYDRANT
- MANHOLE
- GROUNDWATER MONITORING WELL LOCATION
- SOIL PROBE LOCATION
- SOIL PROBE LOCATION
- ABANDONED MONITORING WELL LOCATION



SCALE IN FEET



© 2003 Key Engineering Group Ltd.

DESIGNED BY DKP	DATE 05/01/03
DRAWN BY CTM	PROJECT 0808004
APPROVED BY DJG	SHEET NO. 2
<small> C:\FILES & \CAD\0808004\0808004.dwg DWG LMAN Jay </small>	

FIGURE 1
SITE LAYOUT
EAST SECTION FILL AREA
TECUMSEH PRODUCTS COMPANY
1604 MICHIGAN AVENUE
NEW HOLSTEIN, WISCONSIN



11-810000 08-0808004 0808004.dwg

WISCONSIN DEPARTMENT OF NATURAL RESOURCES
CASE SUMMARY AND CLOSE OUT FORM

Form 4400-202
5-98

NOTE: Use of this form is required by the Department for any case close out application filed pursuant to ch. 292, Wis. Stats. and ch. NR 726, Wis. Adm. Code. Completion of this form is mandatory for applications for case closure. The Department will not consider or act upon your application unless you complete and submit this application form. It is not the Department's intention to use any personally identifiable information from this form for any purpose other than reviewing close out requests and determining the need for additional response action.

I certify that, to the best of my knowledge, the information presented on and attached to this form is true and accurate. This recommendation for case closure is based upon all available data as of March 14, 2000. I have read the Case Summary and Close Out Form Instructions and all required information has been included.

Form Completed By:

(Signature)

Curtis M. Hoffart

(Date)

3/14/00

Printed Name: Curtis M. Hoffart

Company Name: Key Engineering Group, Ltd.

If not site owner, relationship to site owner: Environmental Consultant

Address: W66 N215 Commerce Court, Cedarburg, WI 53012

Telephone Number: (262) 374-4750

FAX Number: (262) 375-9680

Environmental Consultant (if different then above):

Address:

Telephone Number: ()

FAX Number: ()



FOR DEPARTMENT USE ONLY

Type of Case: LUST Spill ER Land Recycling Other _____ DNR Reviewer: _____

WDNR Site Name: Tecumseh - East Section Fill Area

Complete Site Address: 1604 Michigan Avenue, New Holstein, Wisconsin

WDNR BRRTS Case #: 02 - 08 - 193776 FID #: NA

PECFA Claim #: NA

Responsible Party Name: Tecumseh Products Company

Complete Responsible Party Address: 1604 Michigan Avenue, New Holstein, Wisconsin

Site Legal Description : _____ 1/4, _____ 1/4, SE 1/4, Sec 10, T 17 N, R 20 E Town: New Holstein

County: Calumet

Latitude: _____ ° _____ ' _____ " _____

Longitude: _____ ° _____ ' _____ " _____

Type Of Closure Requested:

Soil

Groundwater

____ < NR 720.09/720.11 Generic RCLs

X < NR 140.10 Table 1 & Table 2 Values

____ NR 720.19(2) Soil Performance Stds.

____ NR 140.28(2) PAL Exemption

____ NR 720.19(3) Site Specific Stds.

____ NR 726.05(2)(b) Natural Attenuation

Contaminant Type(s): Fill Material

Quantity Released: Unknown

Date of Incident/Discovery: 1991

Zoning of Property: Heavy Industrial

Enforcement Actions Closed Out? ____ Yes ____ No X NA

Permits Closed Out? ____ Yes ____ No X NA

Form 4 Pending? ____ Yes ____ No X NA

Date Closure Submitted to DNR: March 14, 2000

1. CASE HISTORY AND JUSTIFICATION FOR CLOSURE ATTACHED? Yes No - Documented in enclosed letter.

2. SOIL PRE-REMEDIATION OR INVESTIGATION ANALYTICAL RESULTS

Extent Defined? Yes No Soil Type(s): Sandy clay/sandy silt Depth to Bedrock: >30 feet

Potential Receptors for Direct Contact (i.e. vapor migration, contaminated soil left in place): None which could reasonably be affected.

Tables of Pre-remedial Analytical Results Attached? Yes No Maps of Pre-remedial Sample Locations Attached? Yes No

3. SOIL POST REMEDIATION ANALYTICAL RESULTS

Remedial Action Completed? Yes No 720.19 Analysis? Yes No (If yes, attach supporting documentation)

Were Soils Excavated? Yes No Quantity: NA Disposal Method: NA

Final Confirmation Sampling Methods: NA

Soil Disposal Form Attached? Yes No Final Disposal Location: NA

Estimated volume of insitu soils exceeding NR 720 RCLs: Isolated areas in fill material.

Tables for Post Remedial Analytical Results Attached? Yes No Maps of Post Remedial Sample Locations Attached? Yes No

Brief Description of Remedial Action Taken: NA *None*

4. GROUNDWATER ANALYTICAL RESULTS

Potential Receptors for Groundwater Migration Pathway: None which could reasonably be affected.

Extent of Contamination Defined? Yes No NA Remedial Action Completed? Yes No NA

of Sample Rounds: *16* Depth(s) to Groundwater/Flow Direction(s): *3 to 15 feet / northwesterly to northerly.*

Field Analyses? Yes No Lab Analyses? Yes No # of Sampling Points: *2 to 9 (LUST case)*

NR 141 Monitoring Wells Sampled: *9 (LUST case)* # Temporary Groundwater Sampling Points Sampled: *0*

Recovery Sumps Sampled: *1* # Municipal Wells Sampled: *0* # Private Wells Sampled: *0*

Has DNR Been Notified of Substances in Groundwater w/o Standards? Yes No

Any Potable Wells Within 1200 Feet of Site? Yes No If Yes, How Many? *1*

Have They Been Sampled? Yes No Have Well Owners/Occupants Been Notified of Results? Yes No

Preventive Action Limit Exceeded? Yes No (If Yes, identify location(s) *_____*)

Enforcement Standard Exceeded? Yes No (If Yes, identify location(s) *_____*)

Tables of Analytical Results Attached? Yes No Map of Groundwater Sample Locations Attached? Yes No

Brief Description of Remedial Action Taken: NA *None*

FOR DEPARTMENT USE ONLY

FIRST REVIEW DATE: 8-4-04 Approved [] Denied

Alan Van _____
(Signature) (Signature) (Signature) (Signature)

SECOND REVIEW DATE: _____ [] Approved [] Denied

(Signature) (Signature) (Signature) (Signature)

COMMITTEE RECOMMENDATION:

- Closure Approved Per:
 - No Restrictions
 - Groundwater Use Restriction
 - Zoning Verification
 - Deed Restriction
 - Deed Affidavit
 - Site Specific Close Out Letter Necessary
 - Well Abandonment Documentation → MW-1
 - Soil Disposal Documentation
 - Public Notice Needed
 - NR 140 Exemption For: _____

Specific Comments: Urban & Polczynski concern that no action/control needed for PCB cont. @ GP6-A.

- Closure Denied, Needs More:
 - Investigation
 - Groundwater Monitoring
 - Soil Remediation
 - Groundwater Remediation
 - Documentation Of Soil Landspreading Or Biopile Destiny

Reviewed by C.C. on 9-9-2016. See McKnight E-mail to Fassbender dated 8-23-2016 (attach to closure request when scanning).

PCB @ GP-6 - concentration 1.5 mg/kg - above 1.4 mg/kg detection limit. Close. Add lang to final closure letter explaining finding, detection, & limited quantity (other samples)

Reviewed by client 9-9-16

Mel

Km

Spills: (Location Unknown) All CIs.
 04-08-168369 (polyglycol)
 04-08-283169 (gasoline)
 04-08-229768 (most presentatives)

✓ = open (8/04)

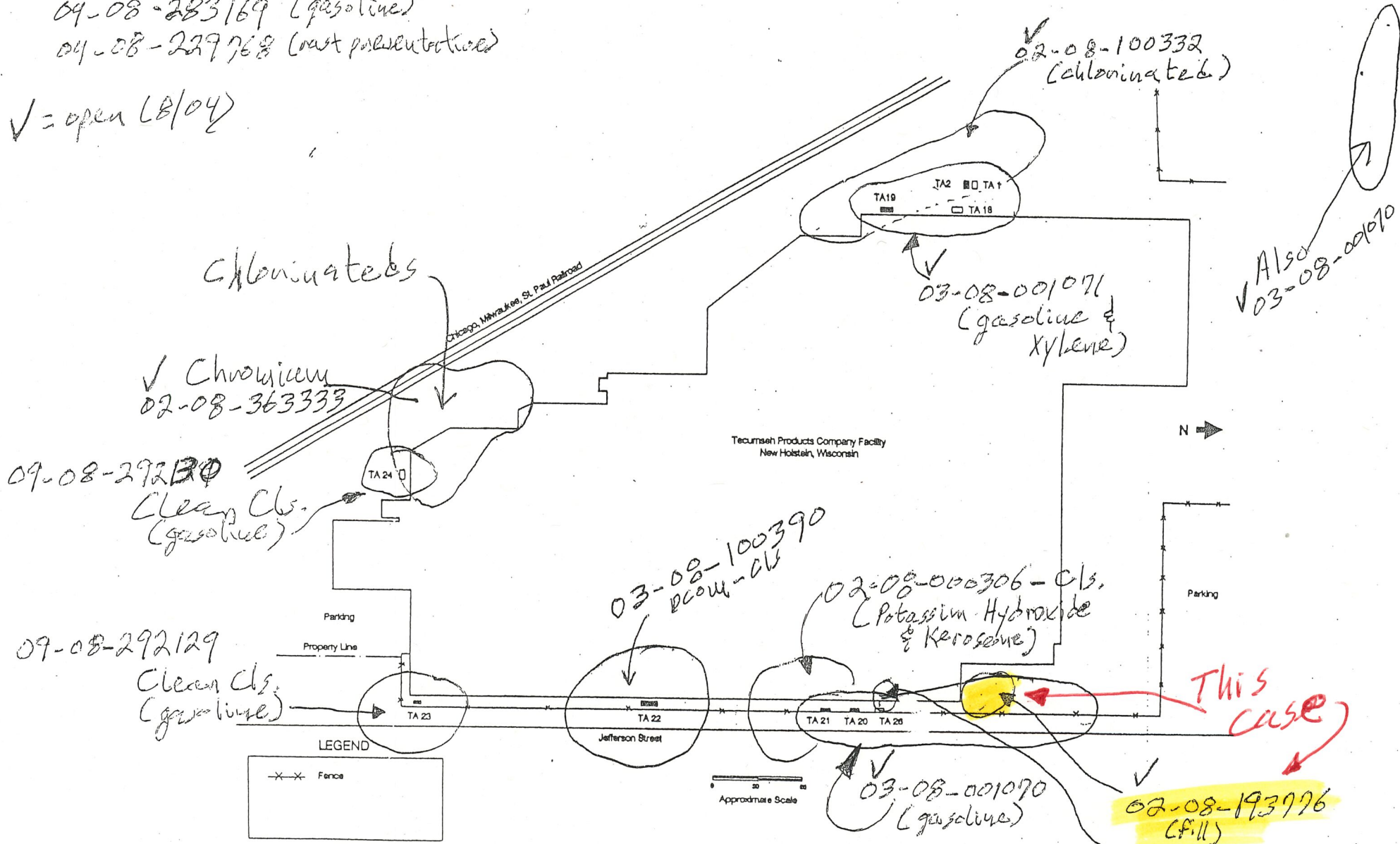


Figure 1



ENVIRONMENTAL • CIVIL/GEOTECH • COMPLIANCE

W66 N215 Commerce Court
Cedarburg, Wisconsin 53012
(262) 375-4750
(800) 645-7365
Fax (262) 375-9680

Case History
&
Justification - Closure

March 14, 2000

Mr. Alan Nass
Wisconsin Department of Natural Resources
Northeast Region
1125 North Military Avenue
Post Office Box 10448
Green Bay, Wisconsin 53407-0448

Reference: **Case Closure Request/
Limited Site Investigation Report**
Tecumseh-East Section Fill Area
1604 Michigan Avenue
New Holstein, Wisconsin
WDNR BRRTS #02-08-193776

RECEIVED
MAR 15 2000
LMD SOLID WASTE

KEY ENGINEERING GROUP, LTD.
File No. 0809004

Dear Mr. Nass:

The purpose of this letter is to provide the Wisconsin Department of Natural Resources (WDNR) with the results of the limited site investigation (LSI) and request case closure for the above referenced site. This letter was prepared by Key Engineering Group, Ltd. (KEY) on behalf of Tecumseh Products Company (Tecumseh).

Purpose and Objectives

Approximately 8 feet of fill material, which included paint chips, metal shavings and ash, was encountered during the gasoline leaking underground storage tank (LUST) site investigation in the East Section (WDNR LUST ID# 03-08-01070). The fill material was encountered at soil boring SB-6 (MW-1), located near the northeast corner of the Tecumseh facility. Concentrations of benzene, ethylbenzene, xylenes and trimethylbenzenes were detected in a sample of the fill material collected from 4 to 6 feet below ground surface (bgs). The benzene concentration exceeded the NR 720 generic residual contaminant level (GRCL) based on the protection of groundwater.

The WDNR notified Tecumseh in a July 29, 1998 letter to submit a work plan for the investigation of the fill material impacts since they appeared to be unrelated to the East Section LUST impacts. Additionally, the WDNR notified Tecumseh in an August 4, 1998 letter that management of this area of contamination in accordance with NR 700 through NR 728 is required.

The objectives of the LSI were to identify whether fill material impacts detected at SB-6/MW-1 have impacted native soils beyond the area of fill and evaluate whether remedial action associated with the fill material impacts is warranted. Additionally, LSI data was also used to evaluate whether the fill material impacts at SB-6/MW-1 are representative of an isolated area or are indicative of a widespread area of contaminated fill material.

Background Information

Significant soil and groundwater sample data has been collected in the vicinity of the Fill Area in association with the East Section LUST case. LUST case data was most previously documented in KEY's January 27, 2000 *Case Closure Request*.

LUST case information pertinent to the Fill Area is summarized as follows:

- The groundwater flow direction in the East Section is northerly to northwesterly.
- MW-1 was the only monitoring well installed within the area of fill material (other than areas of exclusively soil fill).
- The average depth to groundwater at MW-1 is approximately 12 feet bgs; soil contamination within fill material is not present at depths greater than 6 to 7 feet bgs at SB-6/MW-1.
- No petroleum volatile organic compounds (VOCs) (most significant contaminants detected in fill material concentrations) have historically been detected in groundwater within or downgradient of the Fill Area (MW-1 and MW-12, respectively).

Investigation Procedures

The LSI was conducted in general accordance with KEY's October 6, 1998 *Limited Site Investigation Work Plan* and October 12 and 15, 1998 letters from the WDNR. The LSI consisted of advancing three soil probes to the north, west and south of SB-6/MW-1 (GP-4, GP-5 and GP-6). One soil probe was also conducted east of SB-6/MW-1 in conjunction with LUST investigation activities conducted concurrently with the LSI (GP-3). The soil probes were advanced with a truck-mounted Geoprobe® unit operated by Briohn Environmental Contractors, Inc. on September 29, 1999. The soil probe locations are depicted on Figure 1.

Each soil probe was advanced to 10 or 12 feet bgs. Soil samples were collected at 2-foot intervals and were classified in the field in accordance with the Unified Soil Classification System. Each soil sample was also field screened for the presence of VOCs with a photoionization detector (PID). Two soil samples collected from GP-4, GP-5 and GP-6 were submitted to Great Lakes Analytical laboratory for analysis of VOCs and Resource Conservation and Recovery Act metals. One soil sample collected from GP-3 (LUST soil probe) was submitted for gasoline range organics and petroleum volatile organic compounds. Soil boring and sampling information, soil sample classification data and field screening results are documented on soil boring logs included in Attachment 1. Borehole abandonment forms are also included in Attachment 1.

Results

Approximately 8 to 9 feet of fill material consisting of silty clay or clayey silt with glass and wood fragments was encountered at GP-4, GP-5 and GP-6. The fill material was underlain by sandy clay, sandy silt or silty clay. Fill material was not encountered at GP-3. The depth and type of fill material was generally consistent with the fill documented by Dames & Moore at SB-6/MW-1. The depth to groundwater in MW-1 at the time of the LSI was approximately 12 feet bgs.

Soil sample field screening results generally indicated PID readings above background for soil samples collected from the fill material at GP-4, GP-5 and GP-6. Lower PID readings were measured in underlying native soils. No significant PID readings were measured at GP-3. Soil sample field screening results are included on the attached boring logs.

The soil sample analytical results are summarized in Table 1 and on Figure 2 and the Great Lakes Analytical laboratory report and chain of custody documentation are included in Attachment 2. The soil sample analytical results indicated that several VOCs were detected in soil samples collected primarily from fill material at depths of 4 to 6 bgs or 6 to 8 bgs. The VOCs were generally petroleum related with the exception of 1,2-dichlorobenzene and 2,2-dichloropropane, which were detected at GP-4 and/or GP-5. Naphthalene and xylene were detected at concentration exceeding NR 720 or WDNR interim guidance GRCLs for the protection of groundwater in soil samples collected from fill material at GP-4 and GP-5. No NR 720 GRCLs or United States Environmental Protection Agency preliminary remediation goals or soil screening levels were exceeded in soil samples collected at GP-6 or GP-3 or in native soils underlying fill material. Benzene was not detected in any of the soil samples.

Several metals were detected at low (background) concentrations in soil and fill material samples.

No!

No PCBs or PAHs!

Mr. Alan Nass
March 14, 2000
Page 3

Conclusions


Based on the LUST case and LSI results, further investigation and remedial action associated with the on-site fill material is not considered warranted. This conclusion is supported by the following rationale:

- Residual fill material petroleum VOC impacts are confined to the layer of fill material and have not significantly impacted underlying native soils.
- Residual contaminant concentrations do not present a direct contact risk. *v not? ?*
- Based on the lack of groundwater impacts within and down gradient of the Fill Area, residual benzene, naphthalene and xylene concentrations in soil represent a localized area within the Fill Area, and therefore, do not represent a significant source of future groundwater impacts.
- No land use changes are projected at the site.

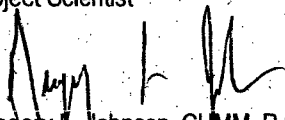
Based on the LUST case/LSI data and this rationale, case closure is appropriate.

Sincerely,

KEY ENGINEERING GROUP, LTD.



Curtis M. Hoffart, CHMM
Project Scientist



Gregory L. Johnson, CHMM, P.G., P.E.
Manager of Technical Services

CMH/mas

Enclosures:	Table 1	Summary of Soil Sample Analytical Results
	Figure 1	Site Layout
	Figure 2	Summary of Soil and Groundwater Sample Analytical Results
	Attachment 1	Soil Boring Logs/Abandonment Forms
	Attachment 2	Laboratory Report and Chain of Custody Documentation

cc: Mr. Kerry DeKeyser, Tecumseh Products Company



W66 N215 Commerce Court
Cedarburg, Wisconsin 53012
(262) 375-4750
(800) 645-7365
Fax (262) 375-9680

Case History - Continued
Clg. Justification - Continued



May 20, 2003

Mr. Alan Nass
Wisconsin Department of Natural Resources
Northeast Region
1125 North Military Avenue
Post Office Box 10448
Green Bay, Wisconsin 53407-0448

Reference: *Response to WDNR's May 31, 2000 Correspondence*
Tecumseh-East Section Fill Area
1604 Michigan Avenue
New Holstein, Wisconsin
WDNR BRRTS #: 02-08-193776

KEY ENGINEERING GROUP, LTD.
File No. 0809004

Dear Mr. Nass:

Pursuant to the Wisconsin Department of Natural Resources (WDNR) May 31, 2000 correspondence (attached), the purpose of this letter is to provide the additional requested soil analytical data for the above referenced site. Key Engineering Group, Ltd. (KEY) previously submitted a *Case Closure Request/Limited Site Investigation Report* (KEY, March 14, 2000) with the \$750.00 closure review fee and the WDNR *Case Summary and Closeout Forms*. Moreover, it is understood that once the WDNR receives this information the case closure review process will continue. This letter was prepared by KEY on behalf of Tecumseh Products Company.

Investigation Procedures

Three soil probes (GP-4A, GP-5A and GP-6A) were advanced with a truck-mounted Geoprobe® unit operated by Soil Essentials on April 8, 2003, in the immediate vicinity of the previous soil probe locations. The soil probe locations are depicted on Figure 1.

The soil probes were advanced to 10 or 12 feet below ground surface. Soil samples were collected at 2-foot intervals and were classified in the field in accordance with the Unified Soil Classification System. Each soil sample was also field screened for the presence of volatile organic compounds with a photoionization detector (PID). Two soil samples from each soil probe were collected from GP-4A, GP-5A and GP-6A and submitted to Test America for analysis of polynuclear aromatic hydrocarbons (PAHs) and three soil samples were collected and submitted for analysis of polychlorinated biphenyls (PCBs). The soil samples were collected from the fill (one PAHs and two PCBs) and native soil (one PAHs and one PCBs) as outlined in the WDNR, May 31, 2000, correspondence. Soil probe and sampling information, soil sample classification data and field screening results are documented on soil boring logs which are included in Attachment 1. Borehole abandonment forms are also included in Attachment 1.

Mr. Alan Nass
May 20, 2003
Page 2

Results

The soil sample analytical results are summarized in Table 1. The soil sample analytical reports and chain of custody documentation are included in Appendix 2.

The results of field screening indicated that PID readings ranged from <1.0 instrument unit (i.u.) to 18 i.u. Soil sample field screening results generally indicated PID readings above background for soil samples collected from the fill material at GP-4A, GP-5A and GP-6A. Lower PID readings were measured in underlying native soils. The boring logs included in Appendix 1 include PID readings for each interval sampled.

The site investigation (SI) laboratory PAH soil sample analytical results indicated that no soil sample concentrations were greater than WDNR Interim Guidance Generic Residual Contaminant Levels for the protection of groundwater or for the direct-contact exposure pathway.

The SI laboratory PCB soil sample analytical results indicate that no soil samples contained more than 50 micrograms per kilogram.

Conclusions

Based the PAH and PCB soil analysis and the previously submitted *Case Closure Request/Limited Site Investigation Report* (KEY, March 14, 2000) with the \$750.00 closure review fee and the WDNR *Case Summary and Closeout Forms* it is understood that the case closure review process will continue upon receipt of this letter.

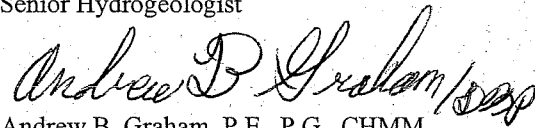
Please call if you have any questions.

Sincerely,

KEY ENGINEERING GROUP, LTD.



Daniel K. Pelczar, CPG, P.G.
Senior Hydrogeologist



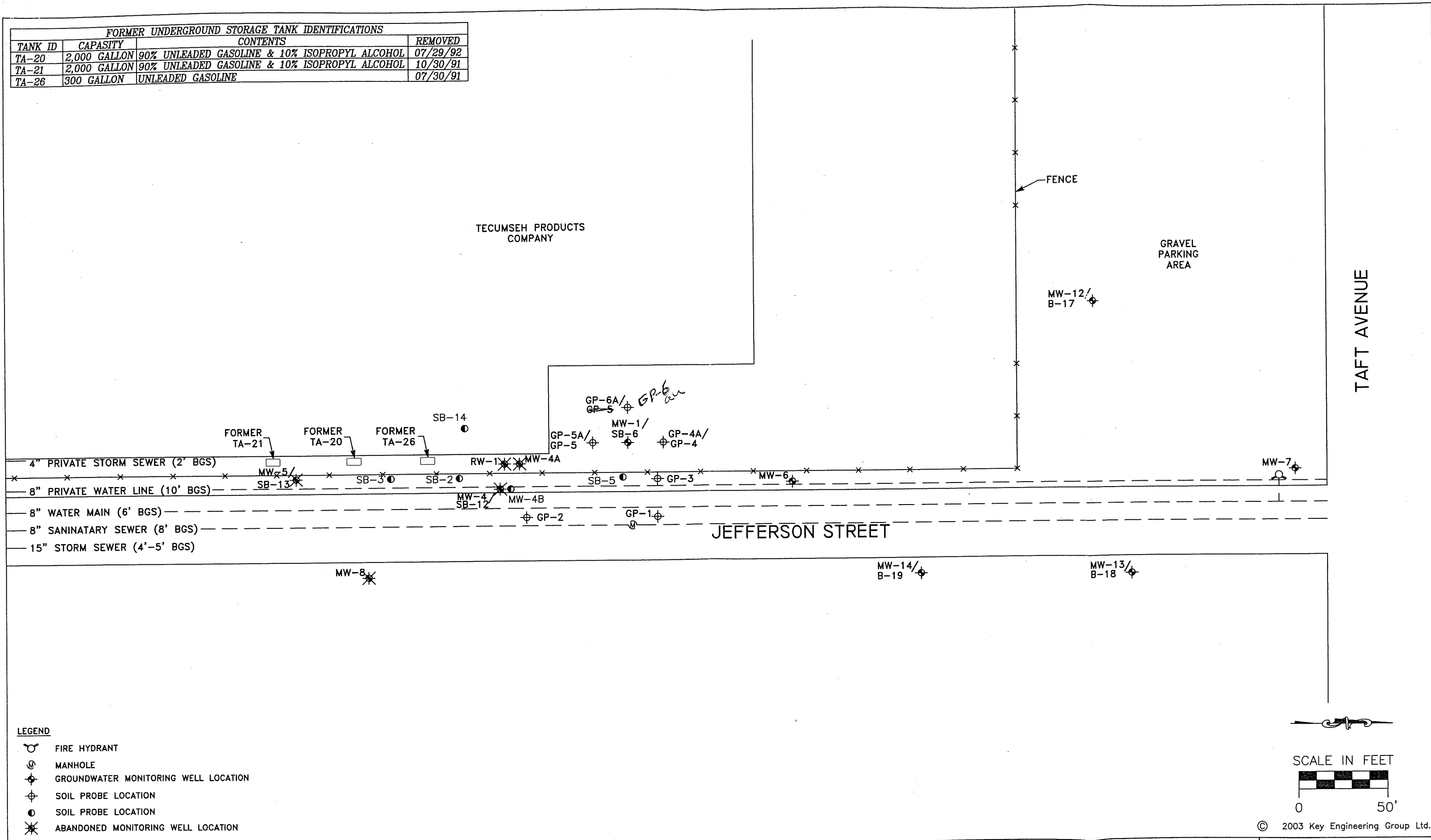
Andrew B. Graham, P.E., P.G., CHMM
Senior Engineer

DKP/vjc

cc: Mr. Bharat Shah, Tecumseh Products Company

Attachments: *Case Closure Review* (WDNR, May 31, 2000)
Table 1 - Summary of Soil Analytical Data
Figure 1 - Site Layout
Attachment 1 - Soil Probing Logs/Abandonment Forms
Attachment 2 - Soil Analytical Report/Chain of Custody Form

FORMER UNDERGROUND STORAGE TANK IDENTIFICATIONS			
TANK ID	CAPACITY	CONTENTS	REMOVED
TA-20	2,000 GALLON	90% UNLEADED GASOLINE & 10% ISOPROPYL ALCOHOL	07/29/92
TA-21	2,000 GALLON	90% UNLEADED GASOLINE & 10% ISOPROPYL ALCOHOL	10/30/91
TA-26	300 GALLON	UNLEADED GASOLINE	07/30/91



LEGEND

- FIRE HYDRANT
- MANHOLE
- GROUNDWATER MONITORING WELL LOCATION
- SOIL PROBE LOCATION
- SOIL PROBE LOCATION
- ABANDONED MONITORING WELL LOCATION



SCALE IN FEET



© 2003 Key Engineering Group Ltd.

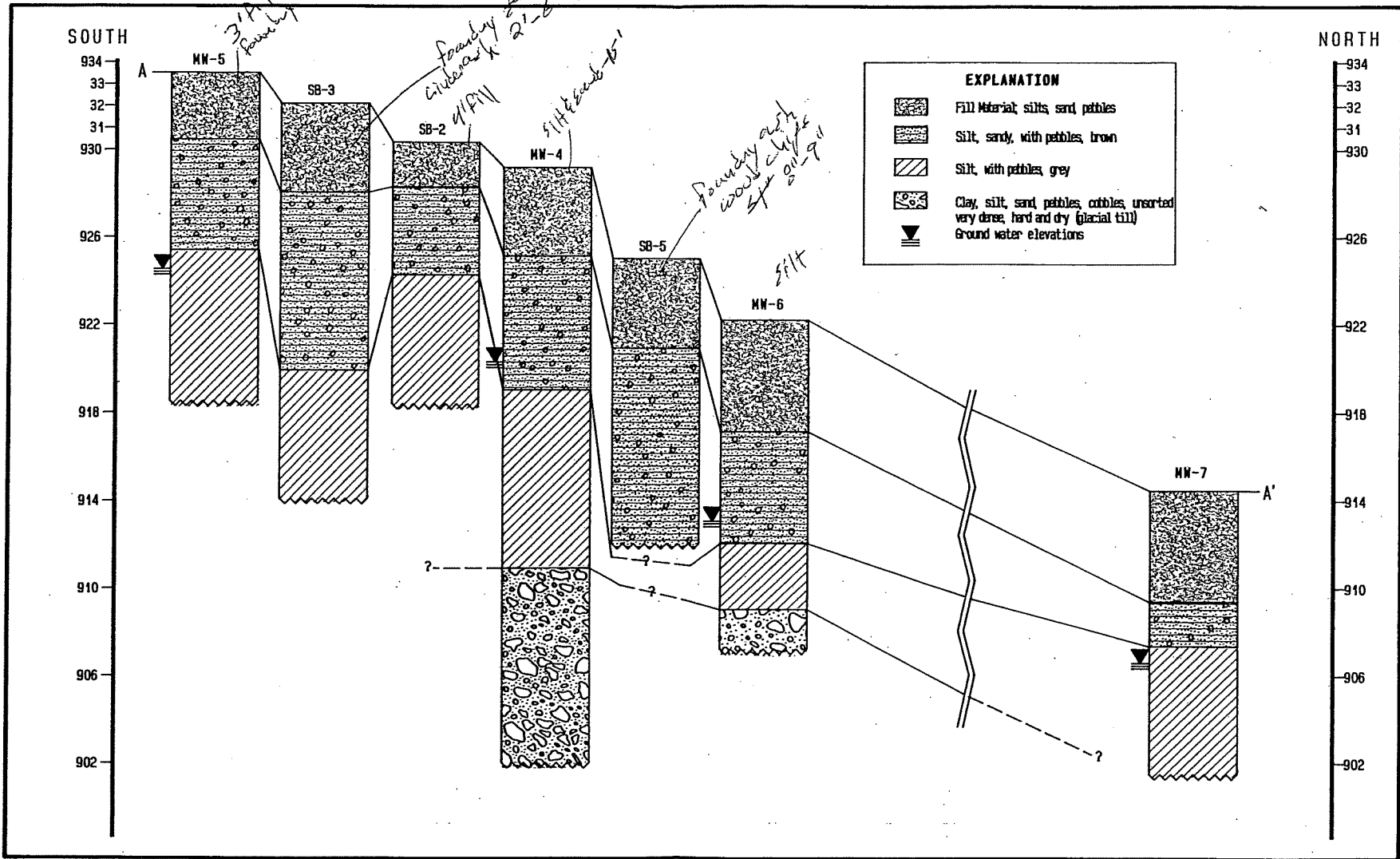
DESIGNED BY DKP	DATE 05/01/03
DRAWN BY CTM	PROJECT 0809004
APPROVED BY DJG	SHEET NO. 2
CADFILE G:\ACAD\0809004\0809004.dwg	
XREF LMAN .lay	

FIGURE 1
SITE LAYOUT
EAST SECTION FILL AREA
TECUMSEH PRODUCTS COMPANY
1604 MICHIGAN AVENUE
NEW HOLSTEIN, WISCONSIN

Figure 2



Map of 2003 - 11-14-03



Vertical scale in feet above mean sea level

Dames & Moore, Inc.
 Milwaukee, Wisconsin

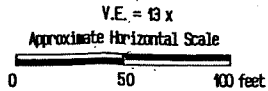


Figure 5A
 Cross Section A-A': East Section
 Tecumseh Products Company
 New Holstein, Wisconsin

Figure 3

TABLE 1

SUMMARY OF SOIL SAMPLE ANALYTICAL RESULTS (sampled 10/99)

TECUMSEH - EAST SECTION FILL AREA
1604 Michigan Avenue
New Holstein, Wisconsin

	GP-3	GP-4		GP-5		GP-6		SB-6 / MW-1 ⁴	NR 720 GRCL	USEPA	
		6-8	6-8	10-12	4-6	10-12	4-6			10-12	4-6
Depth (feet)	6-8	6-8	10-12	4-6	10-12	4-6	10-12	4-6			
PID (i.u.)	3	67	3	140	4	182	4	1,011			
Detected VOCs (µg/kg)											
Benzene	<25	<25	<25	<25	<25	<25	<25	1,600	5.5	1,400	30
n-Butylbenzene	---	1,300	120	2,200	<25	620	<25	---	---	5.5 E 05	---
sec-Butylbenzene	---	<25	<25	1,700	<25	300	<25	---	---	4.1 E 05	---
tert-Butylbenzene	---	620	<25	450	<25	<25	<25	---	---	4.9 E 05	---
1,2-Dichlorobenzene	---	<25	<25	360	<25	<25	<25	---	---	3.7 E 05	1.7 E 04
2,2-Dichloropropane	---	53	<25	<25	<25	<25	<25	---	---	---	---
Di-Isopropyl ether	---	<25	<25	<25	<25	200	<25	---	---	---	---
Ethylbenzene	<25	210	<25	2,200	34	440	<25	1,600	2,900	2.3 E 05	1.3 E 04
Isopropylbenzene	---	430	<25	2,200	<25	210	<25	---	---	5.2 E 05	---
Naphthalene	---	410	110	2,500	<25	190	<25	---	400 ¹	1.9 E 05	8.4 E 04
n-Propylbenzene	---	360	<25	1,200	<25	240	<25	---	---	5.5 E 05	---
Toluene	<25	200	<25	250	<25	90	<25	---	1,500	5.2 E 05	1.2 E 04
1,2,4-Trimethylbenzene	<25	750	95	2,000	38	870	<25	1,800	---	1.7 E 05	---
1,3,5-Trimethylbenzene	140	450	<25	1,200	<25	320	<25	1,100	---	7.0 E 04	---
Xylene	<25	750	<25	9,700	170	970	<25	1,000	4,100	2.8 E 05 ²	1.9 E 05 ²
Detected Metals (mg/kg) ⁵											
Barium	---	64	<28	71	<28	43	35	---	---	1.0 E 05	1,600
Chromium	---	14	3.9	13	4.8	12	8.8	---	14/200 ³	4,500	38
Lead	---	13	<1.1	35	<1.1	14	6.7	---	30/500 ³	1,000	---
Mercury	---	0.083	<0.045	0.13	<0.045	<0.049	<0.044	---	---	560	---
Selenium	---	1.0	0.63	1.6	<0.56	1.8	<0.56	---	---	10,000	5

Total Chromium
Not Hex Chromium

Notes:
 Bold concentration exceeds applicable GRCL or SSL based on the protection of groundwater
 1 - WDNR interim guidance 20/110
 2 - o-xylene referenced
 3 - industrial direct contact GRCL
 4 - soil boring by Dames & Moore (10/91)
 5 - Arsenic, Cadmium and Silver were analyzed but not detected
 --- not analyzed or not applicable
 GRCL - NR 720 generic residual contaminant level based on the protection of groundwater
 mg/kg - milligrams per kilogram
 PID - photoionization detector
 PRG - USEPA Region 9 industrial direct contact Preliminary Remediation Goal
 SSL - USEPA Region 9 Soil Screening Level for the protection of groundwater (with dilution)
 µg/kg - micrograms per kilogram
 USEPA - United States Environmental Protection Agency
 VOCs - volatile organic compounds

Note: Any Petroleum-Related Contamination Is Not From This Case (i.e. Ignore).

- Above WT
- Below WT
- > 220
- > 220 NI
- > 220 I

20/110

Table 2

TABLE 1

SUMMARY OF SOIL SAMPLE ANALYTICAL RESULTS

TECUMSEH - EAST SECTION FILL AREA
1604 Michigan Avenue
New Holstein, Wisconsin

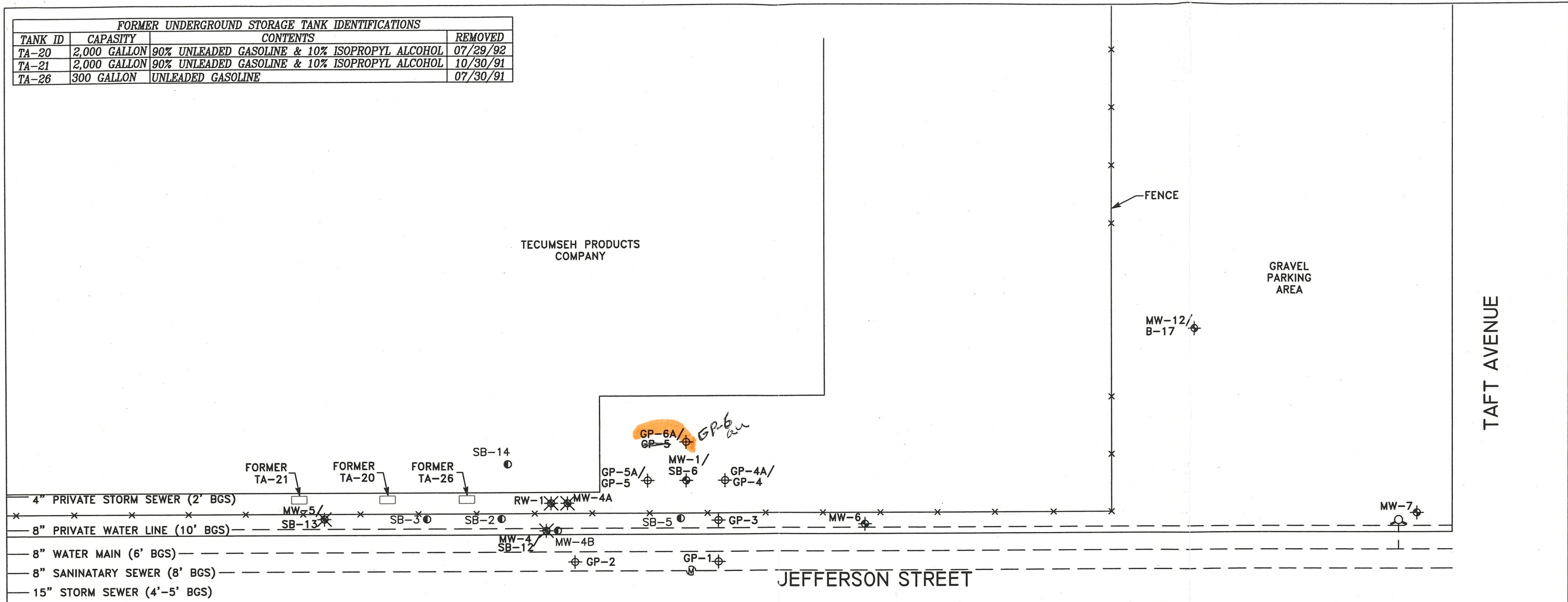
	SAMPLE IDENTIFICATION									GENERIC RCLs	
	GP-4A			GP-5A			GP-6A			PROTECTION OF GROUNDWATER	DIRECT CONTACT (INDUSTRIAL)
Date Sampled	4/8/03	4/8/03	4/8/03	4/8/03	4/8/03	4/8/03	4/8/03	4/8/03	4/8/03	---	---
Depth (feet)	0-2	4-6	8-10	0-2	4-6	8-10	0-2	4-6	8-10	---	---
PID (i.u.)	<1	<1	<1	<1	18	<1	<1	<1	<1	---	---
PAHs (µg/kg)											
Acenaphthene	---	<600	<61	---	<550	<60	---	<59	<64	38,000 (1)	60,000,000 (1)
Acenaphthylene	---	<1,000	<100	---	<930	<100	---	<100	<110	700 (1)	360,000 (1)
Anthracene	---	<60	<6.1	---	<55	<6.0	---	<5.9	<6.4	3,000,000 (1)	300,000,000 (1)
Benzo(a)anthracene	---	<60	<6.1	---	<55	<6.0	---	86	14	17,000 (1)	3,900 (1)
Benzo(a)pyrene	---	<60	<6.1	---	<55	<6.0	---	60	<6.4	48,000 (1)	390 (1)
Benzo(b)fluoranthene	---	<60	<6.1	---	<55	<6.0	---	12	<6.4	360,000 (1)	3,900 (1)
Benzo(g,h,i)perylene	---	<60	<6.1	---	<55	<6.0	---	89	<6.4	6,800,000 (1)	390,000 (1)
Benzo(k)fluoranthene	---	<60	<6.1	---	<55	<6.0	---	26	<6.4	870,000 (1)	39,000 (1)
Chrysene	---	<60	<6.1	---	69	<6.0	---	34	14	37,000 (1)	390,000 (1)
Dibenzo(a,h)anthracene	---	<91	<9.1	---	<82	<9.1	---	<8.9	<9.6	38,000 (1)	390 (1)
Fluoranthene	---	<120	<12	---	<110	<12	---	142	31	500,000 (1)	40,000,000 (1)
Fluorene	---	<120	<12	---	<110	<12	---	<12	<13	100,000 (1)	40,000,000 (1)
Indeno(1,2,3-cd)pyrene	---	<60	<6.1	---	<55	<6.0	---	30	<6.4	680,000 (1)	3,900 (1)
1-methyl naphthalene	---	<360	<36	---	<330	<36	---	<35	<38	23,000 (1)	70,000,000 (1)
2-methyl naphthalene	---	<300	<30	---	<270	<30	---	<30	<32	20,000 (1)	40,000,000 (1)
Naphthalene	---	<360	<36	---	<330	<36	---	<35	<38	400 (1)	110,000 (1)
Phenanthrene	---	<60	<6.1	---	175	<6.0	---	57	19	1,800 (1)	390,000 (1)
Pyrene	---	<60	<6.1	---	131	<6.0	---	236	36	8,700,000 (1)	30,000,000 (1)
PCBs (mg/kg)											
Aroclor 1016	<0.29	<0.30	<0.30	<0.29	<0.28	<0.30	<1.4	<0.60	<0.32	---	---
Aroclor 1221	<0.29	<0.30	<0.30	<0.29	<0.28	<0.30	<1.4	<0.60	<0.32	---	---
Aroclor 1232	<0.29	<0.30	<0.30	<0.29	<0.28	<0.30	<1.4	<0.60	<0.32	---	---
Aroclor 1242	<0.29	<0.30	<0.30	<0.29	<0.28	<0.30	<1.4	<0.60	<0.32	---	---
Aroclor 1248	<0.29	<0.30	<0.30	<0.29	<0.28	<0.30	<1.4	<0.60	<0.32	---	---
Aroclor 1254	<0.29	<0.30	<0.30	<0.29	<0.28	<0.30	1.5	<0.60	<0.32	---	---
Aroclor 1260	<0.29	<0.30	<0.30	<0.29	<0.28	<0.30	<1.4	<0.60	<0.32	---	---
Total PCBs	<0.29	<0.30	<0.30	<0.29	<0.28	<0.30	1.5	<0.60	<0.32	---	---

Notes:

Bold values exceed the WDNR Interim Guidance (1) protection of groundwater values
 Boxed values exceed the WDNR Interim Guidance (1) direct-contact values
 --- - not analyzed, not applicable or no standard established
 (1) - From Soil Cleanup Levels for PAHs Interim Guidance, WDNR, PUBL-RR-519-97, April 1997, Corrected.
 bgs - below ground surface
 mg/kg - milligrams per kilogram
 NA - not applicable
 PAHs - polynuclear aromatic hydrocarbons
 PCB - polychlorinated biphenyls
 Q - result between the limit of detection and limit of quantitation
 RCLs - residual contaminant levels
 µg/kg - micrograms per kilogram

Above WT
 Below WT
 > DNR PAH Guidance
 > DNR/EPA PCB Guidance

FORMER UNDERGROUND STORAGE TANK IDENTIFICATIONS			
TANK ID	CAPACITY	CONTENTS	REMOVED
TA-20	2,000 GALLON	90% UNLEADED GASOLINE & 10% ISOPROPYL ALCOHOL	07/29/92
TA-21	2,000 GALLON	90% UNLEADED GASOLINE & 10% ISOPROPYL ALCOHOL	10/30/91
TA-26	300 GALLON	UNLEADED GASOLINE	07/30/91



* Petroleum Contamination shown in Table 1 is related to another case (03-08-001070) Only soil contamination above standard on guidance is PCB @ GP-6A.

■ > DNR/EPA PCB Guidance

- LEGEND**
- ⊕ FIRE HYDRANT
 - ⊕ MANHOLE
 - ⊕ GROUNDWATER MONITORING WELL LOCATION
 - ⊕ SOIL PROBE LOCATION
 - SOIL PROBE LOCATION
 - ⊗ ABANDONED MONITORING WELL LOCATION



© 2003 Key Engineering Group Ltd.

DESIGNED BY DKP	DATE 05/01/03
DRAWN BY CTM	PROJECT 0809004
APPROVED BY DJG	SHEET NO. 2
CADFILE G:\ACAD\0809004\0809004.dwg	
XREF LMAN .lay	

FIGURE 1
SITE LAYOUT
EAST SECTION FILL AREA
TECUMSEH PRODUCTS COMPANY
1604 MICHIGAN AVENUE
NEW HOLSTEIN, WISCONSIN

Figure 4



May 01 2003 11:51am C:\ACAD\0809004\0809004.dwg

Note: Any Petroleum-Related Contamination IS NOT From This Case (i.e. Ignored)

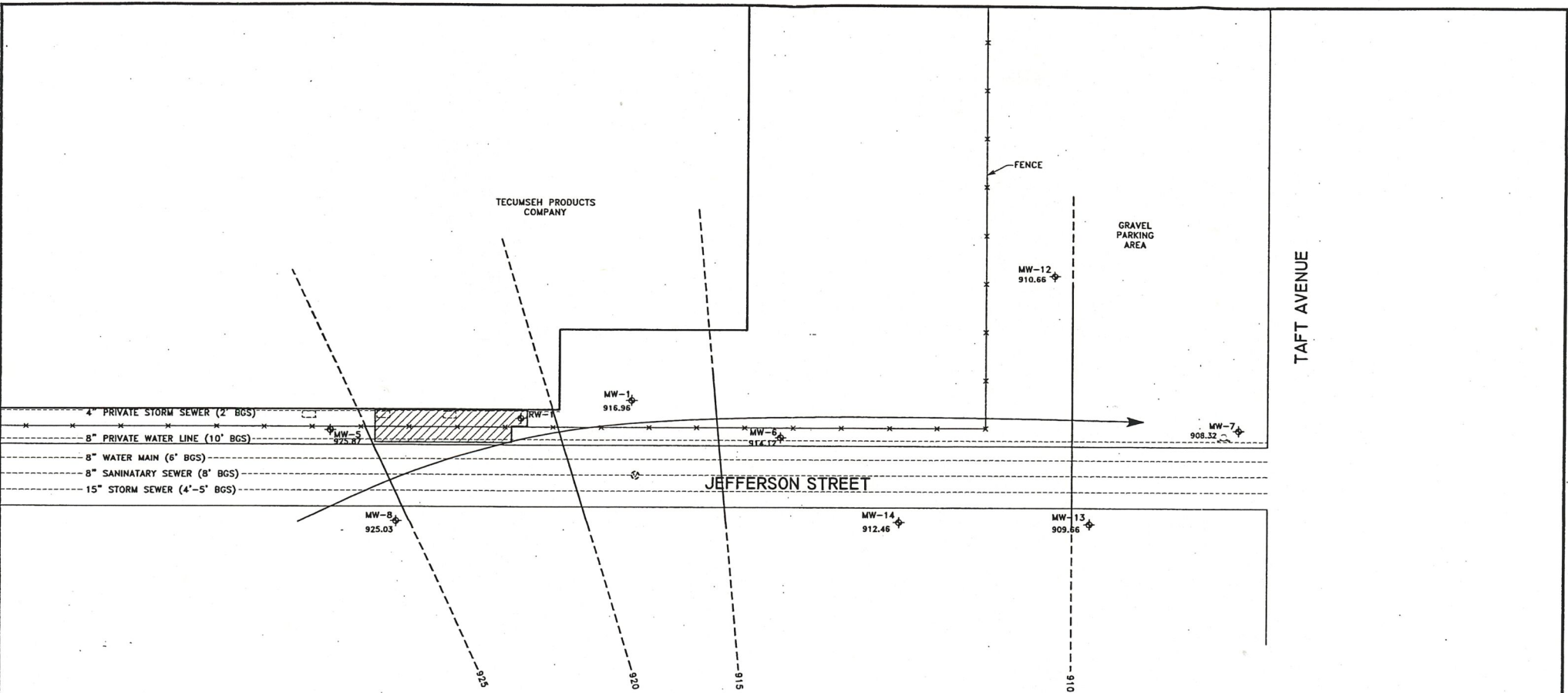
shaded concentrations exceed NR 140 ES

all concentrations in micrograms per liter
ES - standard
GRO - gasoline range organics
MTBE - methyl tert-butyl-ether
NE - not established
PAL - preventive action limit

Table with columns: MW-1, GRO, BENZENE, TOLUENE, ETHYLBENZENE, XYLENES, TRIMETHYLBENZENES, MTBE, LEAD. Rows include dates and numerical values for various monitoring wells (MW-1 to MW-14) and parameters (NR 140 ES, NR 140 PAL).

SUMMARY OF GROUNDWATER SAMPLE ANALYTICAL RESULTS
TECUMSEH PRODUCTS COMPANY - EAST SECTION
1604 Michigan Avenue
New Holstein, Wisconsin

Table 3



*Petroleum Contamination shown in Table 3
 Is Related To Another Case (03-08-001090)
 No Water-Related Contamination Associated
 With This Case*

*ES
 PAL*

Figure 5



- LEGEND**
- FIRE HYDRANT
 - MANHOLE
 - MONITORING WELL LOCATION
 - 916.96 GROUNDWATER ELEVATION (9/29/99)
 - GROUNDWATER FLOW DIRECTION

 SCALE: 1"=60'			
DRN. BY:	J.J.J.	DATE:	01/11/00
DSN. BY:	C.M.H.	FILE NO.:	0303002
CHK. BY:	C.M.H.	DWG. NO.:	3030024
REV. BY:	G.L.J.	SHEET NO.:	3



FIGURE 5
 GROUNDWATER ELEVATION
 CONTOUR MAP
 (SEPTEMBER 29, 1999)
 EAST SECTION
 TECUMSEH PRODUCTS COMPANY
 1604 MICHIGAN AVENUE
 NEW HOLSTEIN, WISCONSIN

TABLE 4

SUMMARY OF GROUNDWATER ELEVATION DATA
 TECUMSEH PRODUCTS COMPANY - EAST SECTION
 New Holstein, Wisconsin

WELL NUMBER	PVC PIPE ELEVATION (FEET)	DATE	DEPTH TO GROUNDWATER (FEET)	GROUNDWATER ELEVATION (FEET)
MW-1	928.98	8/9/92	13.42	915.56
		5/5/93	13.22	915.76
		6/9/93	10.11	918.87
		5/5/94	9.06	919.92
		9/9/94	13.89	915.09
		1/10/95	15.21	913.77
		4/17/95	12.72	916.26
		7/18/95	14.13	914.85
		10/2/95	14.17	914.81
		5/16/96	9.00	919.98
		7/9/96	10.72	918.26
		8/7/96	11.05	917.93
		11/21/96	13.83	915.15
		3/27/97	10.72	918.26
		6/10/97	11.86	917.12
		9/18/97	12.95	916.03
9/29/99	12.02	916.96		
MW-5	933.19	8/9/92	8.53	924.66
		5/5/93	8.30	924.89
		6/9/93	4.41	928.78
		5/5/94	3.85	928.34
		9/9/94	9.16	924.03
		1/10/95	10.12	923.07
		4/17/95	8.41	924.78
		7/18/95	9.11	924.08
		10/2/95	9.30	923.89
		5/16/96	6.68	926.51
		7/9/96	6.16	927.03
		8/7/96	6.74	926.45
		11/21/96	8.83	924.36
		3/27/97	4.39	928.80
		6/10/97	9.00	924.19
		9/18/97	8.09	925.10
9/29/99	7.32	925.87		
MW-6	921.90	8/9/92	8.93	912.19
		5/5/93	5.24	916.66
		6/9/93	5.60	916.30
		5/5/94	5.24	916.66
		9/9/94	9.20	912.70
		1/10/95	10.14	911.76
		4/17/95	8.20	913.70
		7/18/95	9.39	912.51
		10/2/95	9.33	912.57
		5/16/96	6.08	915.82
		7/9/96	6.77	915.13
		8/7/96	7.06	914.84
		11/21/96	9.15	912.75
		3/27/97	6.42	915.43
		6/10/97	7.90	914.00
		9/18/97	8.50	913.40
9/29/99	7.78	914.12		
MW-7	914.21	8/9/92	7.46	906.75
		5/5/93	3.16	911.05
		6/9/93	4.21	910.00
		5/5/94	3.16	911.05
		9/9/94	7.55	906.66
		1/10/95	7.86	906.35
		4/17/95	5.58	908.63
		7/18/95	8.04	906.17
		10/2/95	7.51	906.70
		5/16/96	5.64	908.57
		7/9/96	5.29	908.92
		8/7/96	5.48	908.73
		11/21/96	7.32	906.89
		3/27/97	4.05	910.16
		6/10/97	6.51	907.70
		9/18/97	7.14	907.07
9/29/99	5.89	908.32		

Notes: PVC pipe elevations were referenced to the rim of the sanitary sewer within Jefferson Street which has a mean sea level elevation of 932.17 feet.

TABLE V (CONTINUED)

SUMMARY OF GROUNDWATER ELEVATION DATA
 TECUMSEH PRODUCTS COMPANY - EAST SECTION
 New Holstein, Wisconsin

WELL NUMBER	PVC PIPE ELEVATION (FEET)	DATE	DEPTH TO GROUNDWATER (FEET)	GROUNDWATER ELEVATION (FEET)
MW-3	932.14	8/9/92	8.01	924.13
		5/5/93	6.54	925.60
		6/9/93	2.33	929.81
		5/5/94	1.95	930.19
		9/9/94	7.14	925.00
		1/10/95	9.58	922.56
		4/17/95	5.77	926.37
		7/18/95	8.62	923.52
		10/2/95	8.96	923.18
		5/16/96	3.51	928.63
		7/9/96	4.58	927.56
		8/7/96	4.88	927.26
		11/21/96	7.74	924.40
		3/27/97	3.58	928.56
		6/10/97	4.43	927.71
		9/18/97	7.54	924.6
9/29/99	7.11	925.03		
MW-12	921.07	8/9/92	--	--
		5/5/93	--	--
		6/9/93	--	--
		5/5/94	7.66	913.41
		9/9/94	--	--
		1/10/95	--	--
		4/17/95	--	--
		7/18/95	--	--
		10/2/95	--	--
		5/16/96	--	--
		7/9/96	9.36	911.71
		8/7/96	10.10	910.97
		11/21/96	11.23	909.84
		3/27/97	9.28	911.79
		6/10/97	10.45	910.62
		9/18/97	11.03	910.04
9/29/99	10.41	910.66		
MW-13	916.64	8/9/92	--	--
		5/5/93	--	--
		6/9/93	3.80	912.84
		5/5/94	1.48	915.16
		9/9/94	8.06	908.58
		1/10/95	8.29	908.35
		4/17/95	6.22	910.42
		7/18/95	8.18	908.46
		10/2/95	8.03	908.61
		5/16/96	8.84	907.80
		7/9/96	4.69	911.95
		8/7/96	5.60	911.04
		11/21/96	7.62	909.02
		3/27/97	4.51	912.13
		6/10/97	7.32	909.32
		9/18/97	7.56	909.08
9/29/99	6.98	909.66		
MW-14	919.55	8/9/92	--	--
		5/5/93	--	--
		6/9/93	4.28	915.27
		5/5/94	3.42	916.13
		9/9/94	8.06	911.49
		1/10/95	8.73	910.82
		4/17/95	7.01	912.54
		7/18/95	8.18	911.37
		10/2/95	8.12	911.43
		5/16/96	5.37	914.18
		7/9/96	5.38	914.17
		8/7/96	5.75	913.80
		11/21/96	7.96	911.59
		3/27/97	4.43	915.12
		6/10/97	6.81	912.74
		9/18/97	7.56	911.99
9/29/99	7.09	912.46		

Notes: PVC pipe elevations were referenced to the rim of the sanitary sewer within Jefferson Street which has a mean sea level elevation of 932.17 feet.

McKnight, Kevin - DNR

From: McKnight, Kevin - DNR
Sent: Tuesday, August 23, 2016 1:08 PM
To: McKnight, Kevin - DNR; Fassbender, Judy L - DNR
Subject: Tecumseh - Fill Area @ MW-1 Closure Question

Judy, Does this information accurately reflect our discussion? I added some additional information I found on BRRTS. Thanks for your time.

BTW, My computer will need to be reimaged to fix whatever software problem is going on stopping me from using the EPA software.

Link to scan of closure packet

\\Greenbay\RR\ NER E FILES\Calumet_08\0208193776 TECUMSEH-FILL AREA @ MW-1\CLOSURE PACKET\0208193776 Closure Packet.pdf

8/23/2016 Discussion with Judy Fassbender regarding PCB issue at site.

Tecumseh – Fill Area @ MW-1
02-08-193776

Conditional closure letter sent on August 4, 2004 requiring abandonment of MW-1 as the only condition of closure. Well was thought to be associated with other open sites.

May 4, 2011- Confirmation of abandonment received. Final closure letter never sent.

During review of two Tecumseh case closure requests (03-08-100332 & 03-08-001071) it was noted that MW-1 was not part of these investigations in the area so the file was reviewed to determine status. Upon finding the abandonment form in the file the closure request was reviewed to allow for drafting of final closure letter.

Highlights:

- PVOC's in the area noted to be associated with other nearby cases. BRRTS Case 03-08001070 Tecumseh Products – East TA 20,21,26 has this location in the GIS packet (closed 8/6/2004)
- 3 Soil borings with 3 samples each analyzed for PCB's. GP-6A (0-2') had 1.5 mg/kg Aroclor 1254 (MDL 1.4mg/kg) No other detections noted.
- Case closure signed by project manager with note that Urben and Polczinski concurred with no action needed.

Issue:

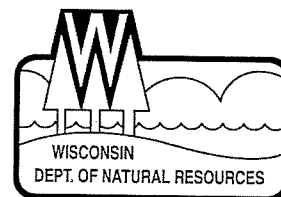
- This detection is above both soil-gw RCL and DC currently.

Conclusion:

Based on multiple samples not exceeding detection limit for 8 PCB's and only 1 detection above MDL (0.1mg/kg over) further action is not needed however language should be added to the closure letter noting this.

State of Wisconsin
DEPARTMENT OF NATURAL RESOURCES
2984 Shawano Avenue
Green Bay WI 54313-6727

Scott Walker, Governor
Cathy Stepp, Secretary
Telephone 608-266-2621
Toll Free 1-888-936-7463
TTY Access via relay - 711



August 30, 2012

Alyssa Sellwood, P.E.
TRC Solutions, Inc.
708 Heartland Trail
Suite 3000
Madison, Wisconsin 53717

Subject: Confirmed Approval of the Report, *Status Update CVOC Plume Delineation, PVOC Plume Conditions, and MW-1 Abandonment, Tecumseh Products Company, New Holstein, Wisconsin*, WDNR BRRTS #: 02-08-100332, 03-08-001071, 02-08-193776

Dear Ms. Sellwood:

This letter is to confirm the March 28, 2012 email approval by myself of the above report and the proposed sampling plan contained therein. The report and the review fee were received on March 14, 2012. TRC wanted to begin sampling at the site during the week of March 26, 2012. Because I would not have time to do a complete review of the report and I did not want to hold up work at the site, I gave an approval of the spring sampling round as proposed. With this letter, I am also approving the fall sampling round.

Jason Smith (Tecumseh Products Company) and I met today to discuss the upcoming fall sampling round and the site groundwater sampling results of Robert E. Lee & Associates (REL). REL had been hired by the City of New Holstein under the Wisconsin Plant Recovery Initiative Grant to conduct an environmental investigation on those parts of the Tecumseh property not being covered by any of the currently on-going environmental investigations.

Based on the REL data, it would appear that some additional groundwater monitoring points will need to be added to TRC's monitoring plan – at least to the CVOC Plume investigation. Jason and I agreed that we would wait on the completion of the REL investigation before determining which monitoring points should be added. As such, we will look at making any needed changes to the 2013 sampling events and keep the 2012 sampling as proposed.

If you have any questions regarding this letter, please contact me at the address above, by calling 920-662-5161, or by email at alan.nass@wisconsin.gov. Thank you Alyssa.

Yours truly,

Alan Thomas Nass, P.G., P.S.S.
Hydrogeologist
Bureau for Remediation and Redevelopment

Cc: Jason Smith, Tecumseh Products Company
Tom Stolzenburg, TRC – electronic copy

Nass, Alan T - DNR

From: Sellwood, Alyssa [ASellwood@trcsolutions.com]
Sent: Wednesday, March 28, 2012 9:50 AM
To: Nass, Alan T - DNR
Subject: RE: Tecumseh Products
Attachments: 2012 Monitoring Program Note.xlsx

Thank you Al. I appreciate your quick response, recognizing the limited time allowed between the submittal and the spring sampling.

I attached an Excel file with some quick notes on our sampling program that may be our use to you in your review of the wells included/not included in the sampling program.

I believe MW-06, MW-19D, and MW-20 are the only wells with NR 140 ES exceedences that were omitted from the sampling program. In each case we felt that other wells in proximity to these wells could be used to delineate the plume. However, if after you have time to complete your review, you would like these back in the program, we will be prepared to sample these in the fall (at your direction).

Thank you-

Alyssa Sellwood, P.E.
Project Engineer



708 Heartland Trail, Suite 3000 Madison, WI 53717
T: 608.826.3658 | F: 608.826.3941 | C: 608.234.8001
asellwood@trcsolutions.com
Follow us on [LinkedIn](#) or [Twitter](#) | www.trcsolutions.com

Alyssa

From: Nass, Alan T - DNR [mailto:Alan.Nass@wisconsin.gov]
Sent: Wednesday, March 28, 2012 8:28 AM
To: Sellwood, Alyssa
Subject: Tecumseh Products
Importance: High

Hello Alyssa - I did a quick look at the TRC report titled *Status Update CVOC Plume Delineation, PVOC Plume Conditions, and MW-1 Abandonment - Tecumseh Products Company*, and dated March 2012. I know your crew started sampling out there this week. Having only received the report on the 14th, I haven't had time to look at the report in any detail before TRC started the spring sampling round. I have some questions - for example why some impacted wells were left out of the planned sampling all together or for at least the spring round. Because I don't have time to do much of a detailed review right now, please continue with the spring sampling as described in the report with the knowledge that the plan for fall may change. When I get my review completed, I'll contact you. Thanks.

This email has been scanned by the Symantec Email Security.cloud service.
For more information please visit <http://www.symanteccloud.com>

03/28/2012

Notes on Sampling Program
Proposed Groundwater Monitoring Plan – 2012
Tecumseh – New Holstein, Wisconsin

= Not included

= Included in program

WELL ID	SPRING	FALL	Notes of Why not Sampled	
	ANALYTICAL PROGRAM ⁽¹⁾	ANALYTICAL PROGRAM ⁽¹⁾	CVOCs	PVOCs
Monitoring Wells				
MW-02/02R			Clean	Clean
MW-06			Vinyl Chloride>ES (near MW-14)	Benzene>PAL
MW-15P			TCE>PAL	Clean
MW-17			Clean	Clean
MW-18			Clean	Clean
MW-19D			TCE >ES (Similar to MW-19P)	Clean
MW-25			Clean	Clean
MW-25D			Clean	Clean
MW-27			Clean (missing)	Clean (missing)
MW-27D			Clean (missing)	Clean (missing)
MW-32			Clean (Upgradient)	Clean (Upgradient)
MW-32D			Clean (Upgradient)	Clean (Upgradient)
MW-07	X	X		
MW-09	X	X		
MW-12	X	X		
MW-13	X	X		
MW-14	X	X		
MW-16	X	X		
MW-11			Clean	Clean
MW-19P	X	X		
MW-20			PCE>ES (Similar to MW-9)	Clean
MW-18P			Clean	Clean
MW-21	X	X		
MW-23D	X	X		
MW-22	X	X		
MW-22P	X	X		
MW-24	X	X		

d in proposed program (at least one round)

proposed program



RECEIVED
MAR 14 2012
WI DNR - GREEN BAY

Status Update
CVOC Plume Delineation, PVOC Plume Conditions,
and MW-1 Abandonment

Tecumseh Products Company
New Holstein, Wisconsin

WDNR BRRTS #: 02-08-100332, 03-08-001071, 02-08-193776

March 2012

Prepared For
Tecumseh Products Company

Nate Keller, P.G.
Project Hydrogeologist

Alyssa Sellwood, P.E.
Project Manager

Tom Stolzenburg, Ph.D.
Client Service Manager

Nass, Alan T - DNR

From: Sellwood, Alyssa [ASellwood@trcsolutions.com]
Sent: Wednesday, March 14, 2012 3:35 PM
To: Nass, Alan T - DNR
Subject: RE: Receipt of status update & fee - Former Tecumseh Products Company

Thanks for the response. We'll be in touch.

Alyssa Sellwood, P.E.
Project Engineer



708 Heartland Trail, Suite 3000 Madison, WI 53717
T: 608.826.3658 | F: 608.826.3941 | C: 608.234.8001
asellwood@trcsolutions.com
Follow us on [LinkedIn](#) or [Twitter](#) | www.trcsolutions.com

From: Nass, Alan T - DNR [mailto:Alan.Nass@wisconsin.gov]
Sent: Wednesday, March 14, 2012 3:31 PM
To: Sellwood, Alyssa
Subject: Receipt of status update & fee - Former Tecumseh Products Company

Hello Alyssa - Today I received the TRC report *Status Update CVOC Plume Delineation, PVOC Plume Conditions, and MW-1 Abandonment*, dated March 2012. I also received the fee for technical assistance. I need to finish up another project, but I hope to start on your submitted report tomorrow / early next week. Thanks for the telephone call earlier today.

This email has been scanned by the Symantec Email Security.cloud service.
For more information please visit <http://www.symanteccloud.com>



708 Heartland Trail
Suite 3000
Madison, WI 53717

608.826.3600 PHONE
608.826.3941 FAX

www.TRCsolutions.com

March 13, 2012

RECEIVED
MAR 14 2012
WI DNR - GREEN BAY

Mr. Al Nass
Hydrogeologist
Wisconsin Department of Natural Resources
2984 Shawano Avenue
Madison, WI 54313

Subject: Status Update: Former Tecumseh Products Company Facility - New Holstein, WI
BRRTS #02-08-100332: CVOC Plume
BRRTS #03-08-001071: PVOC West
BRRTS #02-08-193776: MW-1 Fill Area

Dear Mr. Nass:

Enclosed is the 2011 Status Report for the former Tecumseh Products Company (TPC) facility in New Holstein, Wisconsin. The report documents the following:

- Installation of six downgradient monitoring wells
- Delineation of the CVOC plume is complete
- Natural attenuation of the PVOC and CVOC plumes is evident
- Abandonment of MW-1 is complete

We have recommended semi-annual groundwater monitoring program to determine the on-going natural attenuation trend and plume stability for the CVOC and PVOC impacts. TPC is requesting WDNR approval of the proposed monitoring program, and a check for \$500 to cover the review fee is included with this transmittal.

Please note that TRC plans to complete the spring sampling event the week of March 26, 2012. If you would like to discuss the proposed groundwater program prior to the March sampling, please contact me at 608-826-3658.

Sincerely,

TRC Environmental Corporation

Alyssa Sellwood, P.E.
Project Manager

Enclosed Status Update Report
 Check #778467 for \$500

cc: Jason Smith – TPC (pdf of CD)
Tom Stolzenburg, John Rice, Nate Keller – TRC

Nass, Alan T - DNR

From: Sellwood, Alyssa [ASellwood@trcsolutions.com]
Sent: Tuesday, February 28, 2012 1:52 PM
To: Nass, Alan T - DNR
Subject: Tecumseh New Holstein -BRRTS# 02-08-193776
Attachments: TPC New Holstein_05.04.2011 Letter.pdf

Al

Attached is a copy of a letter documenting well abandonment for BRRTS #02-08-193776 (Tecumseh New Holstein Fill Area) dated May 4, 2011. I see that this letter is not include in the BRRTS database, perhaps indicating that you never received it. As we work to finalize the documentation report for the 2011 work completed at the site, I would like to include reference that this project has been closed out.

Could you please review the attached letter, and let me know if WDNR agrees the conditions of closure have been met for #02-08-193776 , and if final closure has been granted.

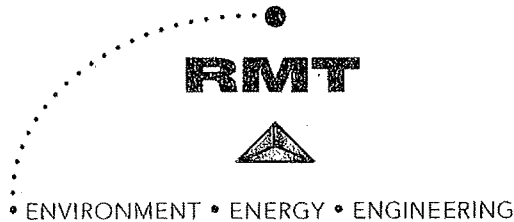
Please feel free to contact me with any questions, or if you need us to provide you with a new hard copy.

Thank you-

Alyssa Sellwood, P.E.
Project Engineer



708 Heartland Trail, Suite 3000 Madison, WI 53717
T: 608.826.3658 | F: 608.826.3941 | C: 608.234.8001
asellwood@trcsolutions.com
Follow us on [LinkedIn](#) or [Twitter](#) | www.trcsolutions.com



May 4, 2011

Mr. Alan Nass
Pollution Remediation Division
Wisconsin Department of Natural Resources
2984 Shawano Avenue
PO Box 10448
Green Bay, WI 53313-0436

**Subject: Final Closure Condition Met – Abandonment of MW-1
East Section Fill Area - Tecumseh Products Company
1604 Michigan Avenue, New Holstein, Wisconsin
BRRTS # 02-08-193776, FID 408020690**

Dear Mr. Nass:

Tecumseh Products Company (TPC) completed investigation of the impacts to soil and groundwater associated with the fill area on the east side of the former TPC facility located at 1604 Michigan Avenue, New Holstein, Wisconsin (Site Map - Attachment A). TPC requested closure for the fill area from the Wisconsin Department of Natural Resources (WDNR) in March 2000. The WDNR responded in May 2000 stating that additional data was needed. TPC submitted the additional information to the WDNR in May 2003, and closure was approved by the WDNR in a letter dated August 4, 2004. The WDNR's only condition of closure for the fill area was the abandonment of monitoring well MW-1.

During review of historical files for the site, RMT, Inc. (RMT), found records that MW-1 was abandoned on June 21, 2006. The well was abandoned by SES, Inc. (SES), and the work was overseen by RMT. To abandon the well, SES removed the pro-top flush mount casing, overdrilled the well to a depth of 19 feet, removed the casing, and backfilled the borehole with bentonite chips. The well abandonment form for MW-1 is included in Attachment B, and the original well construction log is included in Attachment C. (Please note that the well construction log was only obtained recently by RMT, and was not available at the time of the well abandonment).

Documentation of the well abandonment was previously submitted to the WDNR by RMT as Attachment 2 to a letter report dated April 19, 2007. The purpose of the 2007 letter was to document the construction of five new wells and delineate the chlorinated volatile organic compound (CVOC) plume at the site (BRRTS # 02-08-100332). Monitoring well MW-1 was abandoned by SES during their mobilization to the site to construct the five new wells. It appears that the abandonment was

E:\WPMSN\PJT1\06499\01\001\L0649901001-002.DOCX

Route to: Solid Waste Haz. Waste Wastewater
Env. Response & Repair Underground Tanks Other

Facility/Project Name <u>Tecumseh</u>	County Name <u>Rock</u>	Well Name <u>MW-1</u>
Facility License, Permit or Monitoring Number _____	County Code <u>54</u>	Wis. Unique Well Number _____
		DNR Well Number _____

1. Can this well be purged dry? Yes No
2. Well development method
- surged with bailer and bailed 41
 - surged with bailer and pumped 61
 - surged with block and bailed 42
 - surged with block and pumped 62
 - surged with block, bailed and pumped 70
 - compressed air 20
 - bailed only 10
 - pumped only 51
 - pumped slowly 50
 - Other _____
3. Time spent developing well 50 min.
4. Depth of well (from top of well casing) 18 ft.
5. Inside diameter of well 2 in.
6. Volume of water in filter pack and well casing 6.1 gal.
7. Volume of water removed from well 15 gal.
8. Volume of water added (if any) _____ gal.
9. Source of water added _____
10. Analysis performed on water added? Yes No
(If yes, attach results)

	Before Development	After Development
11. Depth to Water (from top of well casing)	a. <u>12.01</u> ft.	<u>DRY</u> ft.
Date	b. <u>11/11/91</u> m m d d y y	<u>11/11/91</u> m m d d y y
Time	c. <u>10:00</u> <input checked="" type="checkbox"/> a.m. <input type="checkbox"/> p.m.	<u>11:00</u> <input checked="" type="checkbox"/> a.m. <input type="checkbox"/> p.m.
12. Sediment in well bottom	_____ inches	_____ inches
13. Water clarity	Clear <input type="checkbox"/> 10 Turbid <input checked="" type="checkbox"/> 15 (Describe) <u>very silty</u>	Clear <input type="checkbox"/> 20 Turbid <input checked="" type="checkbox"/> 25 (Describe)
Fill in if drilling fluids were used and well is at solid waste facility:		
14. Total suspended solids	_____ mg/l	_____ mg/l
15. COD	_____ mg/l	_____ mg/l

16. Additional comments on development:
purged dry within 10 gallons. After 30 min. recovered 4 gallons.

Well developed by: Person's Name and Firm	I hereby certify that the above information is true and correct to the best of my knowledge.
Name: <u>Kristine Stehr</u> <u>Duane Stillings</u>	Signature: <u>Kristine Stehr</u>
Firm: <u>Dames & Moore</u>	Print Initials: <u>KMS</u>
	Firm: <u>DAMES & MOORE</u>

NOTE: Shaded areas are for DNR use only. See instructions for more information including a list of county codes.



May 4, 2011

Mr. Alan Nass
Pollution Remediation Division
Wisconsin Department of Natural Resources
2984 Shawano Avenue
PO Box 10448
Green Bay, WI 53313-0436

RECEIVED
MAY 06 2011
WI DNR - GREEN BAY

**Subject: Final Closure Condition Met – Abandonment of MW-1
East Section Fill Area - Tecumseh Products Company
1604 Michigan Avenue, New Holstein, Wisconsin
BRRTS # 02-08-193776, FID 408020690**

Dear Mr. Nass:

Tecumseh Products Company (TPC) completed investigation of the impacts to soil and groundwater associated with the fill area on the east side of the former TPC facility located at 1604 Michigan Avenue, New Holstein, Wisconsin (Site Map - Attachment A). TPC requested closure for the fill area from the Wisconsin Department of Natural Resources (WDNR) in March 2000. The WDNR responded in May 2000 stating that additional data was needed. TPC submitted the additional information to the WDNR in May 2003, and closure was approved by the WDNR in a letter dated August 4, 2004. The WDNR's only condition of closure for the fill area was the abandonment of monitoring well MW-1.

During review of historical files for the site, RMT, Inc. (RMT), found records that MW-1 was abandoned on June 21, 2006. The well was abandoned by SES, Inc. (SES), and the work was overseen by RMT. To abandon the well, SES removed the pro-top flush mount casing, overdrilled the well to a depth of 19 feet, removed the casing, and backfilled the borehole with bentonite chips. The well abandonment form for MW-1 is included in Attachment B, and the original well construction log is included in Attachment C. (Please note that the well construction log was only obtained recently by RMT, and was not available at the time of the well abandonment).

Documentation of the well abandonment was previously submitted to the WDNR by RMT as Attachment 2 to a letter report dated April 19, 2007. The purpose of the 2007 letter was to document the construction of five new wells and delineate the chlorinated volatile organic compound (CVOC) plume at the site (BRRTS # 02-08-100332). Monitoring well MW-1 was abandoned by SES during their mobilization to the site to construct the five new wells. It appears that the abandonment was

E:\WPMSN\PJT1\06499\01\001\L0649901001-002.DOCX

Mr. Alan Nass
Wisconsin Department of Natural Resources
May 4, 2011
Page 2

inadvertently omitted from the discussion of the report, since the focus of the report centered on the delineation of the CVOC impacts.

With this submittal, the final condition of closure for the fill area is complete, and RMT on behalf of TPC requests the WDNR approve final closure for BRRTS #02-08-193776.

Please feel free to contact me at 608-662-5480 with any questions. We look forward to confirmation of final closure for this portion of the site.

Sincerely,

RMT, Inc.

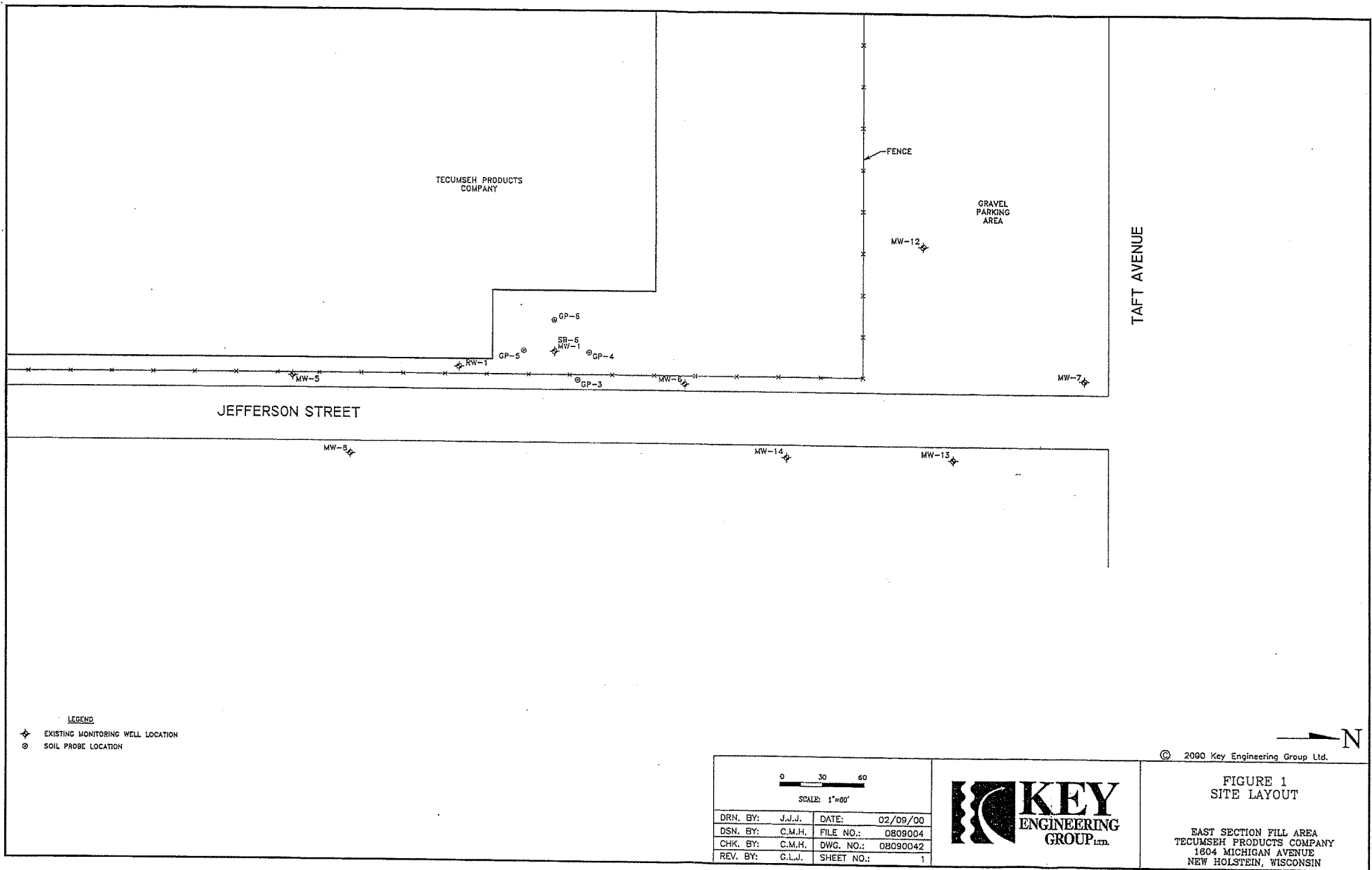


Alyssa Sellwood
Project Engineer

Attachments Attachment A -- Site Figure from Key Environmental Group, Ltd.
Attachment B -- Well Abandonment Form
Attachment C -- Original Well Construction Form

cc: Jason Smith, TPC
Tom Stolzenburg, RMT

Attachment A – Site Figure from Key Environmental Group, Ltd.



LEGEND

- ⊕ EXISTING MONITORING WELL LOCATION
- ⊙ SOIL PROBE LOCATION

0 30 60

SCALE: 1"=60'

DRN. BY:	J.J.J.	DATE:	02/09/00
DSN. BY:	C.M.H.	FILE NO.:	0809004
CHK. BY:	C.M.H.	DWG. NO.:	08090042
REV. BY:	G.L.J.	SHEET NO.:	1



© 2000 Key Engineering Group Ltd.

**FIGURE 1
SITE LAYOUT**

EAST SECTION FILL AREA
TECUMSEH PRODUCTS COMPANY
1604 MICHIGAN AVENUE
NEW HOLSTEIN, WISCONSIN



Attachment B – Well Abandonment Form

Notice: Please complete Form 3300-5 and return it to the appropriate DNR office and bureau. Completion of this report is required by chs. 160, 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats., and ch. NR 141, Wis. Adm. Code. In accordance with chs. 281, 289, 291, 292, 293, 295, and 299, Wis. Stats., failure to file this form may result in a forfeiture of between \$10 and \$25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. NOTE: See the instructions for more information.

Route to: Drinking Water Watershed/Wastewater Waste Management Remediation/Redevelopment Other

(1) GENERAL INFORMATION			(2) FACILITY /OWNER INFORMATION	
WI Unique Well No.	DNR Well ID No.	County Calumet	Facility Name Tecumseh - New Holstein	
Common Well Name MW-1 Gov't Lot (if applicable)			Facility ID	License/Permit/Monitoring No.
Grid Location ____ 1/4 of ____ 1/4 of Sec. ____ ; T. ____ N.; R. ____ <input type="checkbox"/> E <input type="checkbox"/> W ____ ft. <input type="checkbox"/> N. <input type="checkbox"/> S., ____ ft. <input type="checkbox"/> E. <input type="checkbox"/> W. Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/>) or Well Location <input checked="" type="checkbox"/>			Street Address of Well 1604 Michigan Ave.	
Lat ____ ° ____ ' ____ " Long ____ ° ____ ' ____ " or State Plane ____ ft. N. ____ ft. E. <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> Zone			City, Village, or Town New Holstein	
Reason For Abandonment Testing completed			Present Well Owner Tecumseh	
WI Unique Well No. of Replacement Well			Original Owner Tecumseh	
(3) WELL/DRILLHOLE/BOREHOLE INFORMATION			(4) PUMP, LINER, SCREEN, CASING, & SEALING MATERIAL	

Original Construction Date 6/21/2006	Pump & Piping Removed? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Not Applicable
<input type="checkbox"/> Monitoring Well	Liner(s) Removed? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Not Applicable
<input type="checkbox"/> Water Well	Screen Removed? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Applicable
<input checked="" type="checkbox"/> Drillhole / Borehole	Casing Left in Place? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Construction Type: <input checked="" type="checkbox"/> Drilled <input type="checkbox"/> Driven (Sandpoint) <input type="checkbox"/> Dug	Was Casing Cut Off Below Surface? <input type="checkbox"/> Yes <input type="checkbox"/> No
Formation Type: <input checked="" type="checkbox"/> Unconsolidated Formation <input type="checkbox"/> Bedrock	Did Sealing Material Rise to Surface? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Total Well Depth (ft) _____ Casing Diameter (in.) _____	Did Material Settle After 24 Hours? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Lower Drillhole Diameter (in.) _____	If Yes, Was Hole Retopped? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Was Well Annular Space Grouted? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Unknown	Required Method of Placing Sealing Material
If Yes, To What Depth? _____ Feet	<input type="checkbox"/> Conductor Pipe - Gravity <input type="checkbox"/> Conductor Pipe - Pumped
Depth to Water (Feet) _____	<input checked="" type="checkbox"/> Screened & Poured <input type="checkbox"/> Other (Explain) (Bentonite Chips)
	Sealing Materials
	<input type="checkbox"/> Neat Cement Grout
	<input type="checkbox"/> Sand-Cement (Concrete) Grout
	<input type="checkbox"/> Concrete
	<input type="checkbox"/> Clay-Sand Slurry
	<input type="checkbox"/> Bentonite-Sand Slurry
	<input checked="" type="checkbox"/> Chipped Bentonite
	For monitoring wells and monitoring well boreholes only
	<input checked="" type="checkbox"/> Bentonite Chips
	<input type="checkbox"/> Granular Bentonite
	<input type="checkbox"/> Bentonite-Cement Grout
	<input type="checkbox"/> Bentonite - Sand Slurry

(5) Sealing Material Used	From (Ft.)	To (Ft.)	Mix Ratio or Mud Weight
Bentonite chips	Surface	19.0	

(6) Comments No well construction information available - well overdrilled to 19 feet bgs and backfilled with bentonite.

(7) Name of Person or Firm Doing Sealing Work SES, Inc.	Date of Abandonment 6/21/06
Signature of Person Doing Work <i>[Signature]</i> (RMT)	Date Signed 4/19/07
Street or Route 1102 Stewart Street	Telephone Number (608) 274-7600
City, State, Zip Code Madison, WI 53713	

FOR DNR OR COUNTY USE ONLY	
Date Received	Noted By
Comments	

Attachment C – Original Well Construction Form

Facility/Project Name
Macumseh Products Co.

Facility License, Permit or Monitoring Number

Type of Well Water Table Observation Well 11
Piezometer 12

Distance Well Is From Waste/Source Boundary
_____ ft.

Is Well A Point of Enforcement Std. Application?
 Yes No

Local Grid Location of Well
ft. N. _____ ft. E.
 S. _____ ft. W.

Grid Origin Location
Lat. _____ Long. _____ or
St. Plane _____ ft. N. _____ ft. E.

Section Location of Waste/Source
_____ E. W.

Location of Well Relative to Waste/Source
u Upgradient s Sidegradient
d Downgradient n Not Known

Well Name
MW1 SB6

Wis. Unique Well Number _____ DNR Well Number _____

Date Well Installed 10/30/91
m m d d y y

Well Installed By: (Person's Name and Firm)
Gary Wellner
Twin City Testing

A. Protective pipe, top elevation 928.98 ft. MSL

B. Well casing, top elevation 943.3 ft. MSL

C. Land surface elevation 944.0 ft. MSL

D. Surface seal, bottom _____ ft. MSL or 1 ft.

12. USCS classification of soil near screen:
GP GM GC GW SW SP
SM SC ML MH CL CH
Bedrock

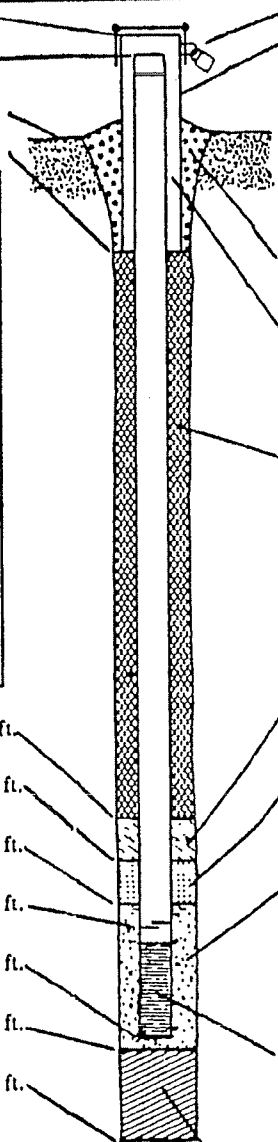
13. Sieve analysis attached? Yes No

14. Drilling method used: Rotary 50
Hollow Stem Auger 41
Other _____

15. Drilling fluid used: Water 02 Air 01
Drilling Mud 03 None 99

16. Drilling additives used? Yes No
Describe _____

17. Source of water (attach analysis):



1. Cap and lock? Yes No

2. Protective cover pipe:
a. Inside diameter: 8 in
b. Length: 1 ft
c. Material: Steel 0
Cast Aluminum Other
d. Additional protection? Yes No
If yes, describe: Expansion Cap

3. Surface seal: Bentonite 3
Concrete 0
Other

4. Material between well casing and protective pipe:
Bentonite 3
Annular space seal
Sand Other

5. Annular space seal:
a. Granular Bentonite 3
b. _____ Lbs/gal mud weight . . . Bentonite-sand slurry 3
c. _____ Lbs/gal mud weight . . . Bentonite slurry 3
d. _____ % Bentonite . . . Bentonite-cement grout 5
e. 0.5 Ft³ volume added for any of the above
f. How installed: Tremie 0
Tremie pumped 0
Gravity 0

6. Bentonite seal:
a. Bentonite granules 3
b. 1/4 in. 3/8 in. 1/2 in. Bentonite pellets 3
c. _____ Other

7. Fine sand material: Manufacturer, product name & mesh size
a. Badger Mine Silica
b. Volume added 0.5 ft³

8. Filter pack material: Manufacturer, product name and mesh size
a. Red Flint
b. Volume added 4.0 ft³

9. Well casing: Flush threaded PVC schedule 40 2
Flush threaded PVC schedule 80 2
Other

10. Screen material: Schedule 40 PVC
a. Screen type: Factory cut 1
Continuous slot 0
Other

b. Manufacturer TIMCO
c. Slot size: 0010
d. Slotted length: 40

11. Backfill material (below filter pack): None 1
Other

E. Bentonite seal, top _____ ft. MSL or 1 ft.

F. Fine sand, top _____ ft. MSL or 5 ft.

G. Filter pack, top _____ ft. MSL or 6 ft.

H. Screen joint, top _____ ft. MSL or 8 ft.

I. Well bottom _____ ft. MSL or 18 ft.

J. Filter pack, bottom _____ ft. MSL or 18 ft.

K. Borehole, bottom _____ ft. MSL or 18 ft.

L. Borehole, diameter 8 in.

M. O.D. well casing 2.25 in.

N. I.D. well casing 2.0 in.

I hereby certify that the information on this form is true and correct to the best of my knowledge.
Signature _____ Firm _____

Please complete both sides of this form and return to the appropriate DNR office listed at the top of this form as required by chs. 144, 147 and 160, Wis. Sta and ch. NR 141, Wis. Ad. Code. In accordance with ch. 144, Wis. Stats., failure to file this form may result in a forfeiture of not less than \$10, nor more than \$5000 for each day of violation. In accordance with ch. 147, Wis. Stats., failure to file this form may result in a forfeiture of not more than \$10,000 for each day of violation. NOTE: Shaded areas are for DNR use only. See instructions for more information including where the completed form should be sent.

Route to: Solid Waste Haz. Waste Wastewater
Env. Response & Repair Underground Tanks Other

Facility/Project Name <u>Tecumseh</u>	County Name <u>Calumet</u>	Well Name <u>Rock RMT-2011</u>
Facility License, Permit or Monitoring Number	County Code <u>54</u>	DNR Well Number <u>1167-1</u>

1. Can this well be purged dry? Yes No

2. Well development method
- surged with bailer and bailed 41
 - surged with bailer and pumped 61
 - surged with block and bailed 42
 - surged with block and pumped 62
 - surged with block, bailed and pumped 70
 - compressed air 20
 - bailed only 10
 - pumped only 51
 - pumped slowly 50
 - Other

3. Time spent developing well 50 min.

4. Depth of well (from top of well casing) 18 ft.

5. Inside diameter of well 2 in.

6. Volume of water in filter pack and well casing 6.1 gal.

7. Volume of water removed from well 15 gal.

8. Volume of water added (if any) --- gal.

9. Source of water added ---

10. Analysis performed on water added? Yes No
(If yes, attach results)

	Before Development	After Development
11. Depth to Water (from top of well casing)	a. <u>12.01</u> ft.	<u>DRY</u> ft.
Date	b. <u>11/11/91</u> m m d d y y	<u>11/11/91</u> m m d d y y
Time	c. <u>10:00</u> <input checked="" type="checkbox"/> a.m. <input type="checkbox"/> p.m.	<u>11:00</u> <input checked="" type="checkbox"/> a.m. <input type="checkbox"/> p.m.
12. Sediment in well bottom	<u>---</u> inches	<u>---</u> inches
13. Water clarity	Clear <input type="checkbox"/> 10 Turbid <input checked="" type="checkbox"/> 15 (Describe) <u>very silty</u>	Clear <input type="checkbox"/> 20 Turbid <input checked="" type="checkbox"/> 25 (Describe)

Fill in if drilling fluids were used and well is at solid waste facility:

14. Total suspended solids --- mg/l

15. COD --- mg/l

16. Additional comments on development:

purged dry within 10 gallons. After 30 min. recovered 4 gallons.

Well developed by: Person's Name and Firm

Name: Kristine Stehr
Duane Stillings

Firm: Dames & Moore

I hereby certify that the above information is true and correct to the best of my knowledge.

Signature: Kristine Stehr

Print Initials: FMS

Firm: Dames & Moore

NOTE: Shaded areas are for DNR use only. See instructions for more information including a list of county codes.

Facility/Project Name Tecumseh Products Company		License/Permit/Monitoring Number _____		Boring Number SB-6	
Boring Drilled By (Firm name and name of crew chief) Twin City Testing Gary Wellner		Date Drilling Started <u>10</u> / <u>30</u> / <u>91</u> MM DD YY		Date Drilling Completed <u>10</u> / <u>30</u> / <u>91</u> MM DD YY	
DNR Facility Well No. _____ WI Unique Well No. _____		Common Well Name MW-1		Drilling Method Hollow-stem Auger 3 1/4" i.d.	
Boring Location State Plane _____ N. _____ E S/CN _____ _____ 1/4 of <u>SE</u> 1/4 of Section <u>10</u> T <u>17</u> N, R <u>20</u> (E/W) _____		Final Static Water Level _____ Feet MSL		Surface Elevation _____ Feet MSL	
County Calumet		DNR County Code 0 8		Civil Town/City/ or Village New Holstein	

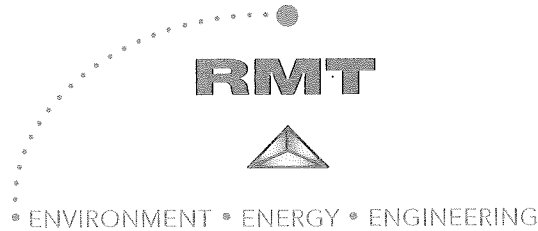
Sample Number	Length Recovered (in)	Blow Counts	Depth in Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID ppm	Soil Properties					RQD/ Comments
									Standard Penetration	Moisture Content	Liquid Limit	Plastic Limit	P 200	
6-1	19	13	1-3'	FILL: sandy with pebbles, gravel, tan FILL: Next 3" black, paint chips, metal shavings, ash Bottom 14" SAND: silty, grey, gravel and pebbles	SP			57.2 2.5						
* 6-2	16	5	4-6'	SAND: Top 2" silty, brown - grey, gravel and pebbles, some organics Bottom 14" SAND: silty, brown, coarse, foundry ash, pyrite (trace), some green staining, moist	SP			1011						slight odor petroleum odor
6-3	14	10	7-9'	Fill: Top 10" sand, silty, gravel, wood chips, red brown mottling throughout Bottom 4" SILT: clayey, light brown some limonite (yellow) nodules, moist	SM			1.0						odor
6-4	19	7	10-12'	SILT: sandy, tan, pebbles and gravel, wet	SM			0.3						no odor
6-5	14	5	13-15'	SAND: silty, gravel and pebbles, water bearing	SM			0.4						no odor
* 6-6	24	5	16-18'	SILT: sandy, pebbles and gravel (trace), wet	SM			0.0						no odor
6-7	2	Bounced	19-21'	Same as above, water bearing Boring Terminated at 21'	SM									

* Sample submitted for analysis

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature _____ Firm **DAMES & MOORE**

This form is authorized by Chapters 144.147 and 162, Wis. Stats. Completion of this report is mandatory. Penalties: Forfeit not less than \$10 nor more than \$5,000 for each violation. Fined not less than \$10 or more than \$100 or imprisoned not less than 30 days, or both for each violation. Each day of continued violation is a separate offense, pursuant to ss 144.99 and 162.06, Wis. Stats



May 4, 2011

RECEIVED
MAY 06 2011
WI DNR - GREEN BAY

Mr. Alan Nass
Pollution Remediation Division
Wisconsin Department of Natural Resources
2984 Shawano Avenue
PO Box 10448
Green Bay, WI 53313-0436

**Subject: Final Closure Condition Met – Abandonment of MW-1
East Section Fill Area - Tecumseh Products Company
1604 Michigan Avenue, New Holstein, Wisconsin
BRRTS # 02-08-193776, FID 408020690**

Dear Mr. Nass:

Tecumseh Products Company (TPC) completed investigation of the impacts to soil and groundwater associated with the fill area on the east side of the former TPC facility located at 1604 Michigan Avenue, New Holstein, Wisconsin (Site Map - Attachment A). TPC requested closure for the fill area from the Wisconsin Department of Natural Resources (WDNR) in March 2000. The WDNR responded in May 2000 stating that additional data was needed. TPC submitted the additional information to the WDNR in May 2003, and closure was approved by the WDNR in a letter dated August 4, 2004. The WDNR's only condition of closure for the fill area was the abandonment of monitoring well MW-1.

During review of historical files for the site, RMT, Inc. (RMT), found records that MW-1 was abandoned on June 21, 2006. The well was abandoned by SES, Inc. (SES), and the work was overseen by RMT. To abandon the well, SES removed the pro-top flush mount casing, overdrilled the well to a depth of 19 feet, removed the casing, and backfilled the borehole with bentonite chips. The well abandonment form for MW-1 is included in Attachment B, and the original well construction log is included in Attachment C. (Please note that the well construction log was only obtained recently by RMT, and was not available at the time of the well abandonment).

Documentation of the well abandonment was previously submitted to the WDNR by RMT as Attachment 2 to a letter report dated April 19, 2007. The purpose of the 2007 letter was to document the construction of five new wells and delineate the chlorinated volatile organic compound (CVOC) plume at the site (BRRTS # 02-08-100332). Monitoring well MW-1 was abandoned by SES during their mobilization to the site to construct the five new wells. It appears that the abandonment was

I:\WPMSN\PJ\T1\06499\01\001\L0649901001-002.DOCX

Mr. Alan Nass
Wisconsin Department of Natural Resources
May 4, 2011
Page 2

inadvertently omitted from the discussion of the report, since the focus of the report centered on the delineation of the CVOC impacts.

With this submittal, the final condition of closure for the fill area is complete, and RMT on behalf of TPC requests the WDNR approve final closure for BRRTS #02-08-193776.

Please feel free to contact me at 608-662-5480 with any questions. We look forward to confirmation of final closure for this portion of the site.

Sincerely,

RMT, Inc.



Alyssa Sellwood
Project Engineer

Attachments Attachment A – Site Figure from Key Environmental Group, Ltd.
Attachment B – Well Abandonment Form
Attachment C – Original Well Construction Form

cc: Jason Smith, TPC
Tom Stolzenburg, RMT

Attachment A – Site Figure from Key Environmental Group, Ltd.

Attachment B – Well Abandonment Form

Notice: Please complete Form 3300-5 and return it to the appropriate DNR office and bureau. Completion of this report is required by chs. 160, 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats., and ch. NR 141, Wis. Adm. Code. In accordance with chs. 281, 289, 291, 292, 293, 295, and 299, Wis. Stats., failure to file this form may result in a forfeiture of between \$10 and \$25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. NOTE: See the instructions for more information.

Route to: Drinking Water Watershed/Wastewater Waste Management Remediation/Redevelopment Other

(1) GENERAL INFORMATION			(2) FACILITY /OWNER INFORMATION		
WI Unique Well No.	DNR Well ID No.	County Calumet	Facility Name Tecumseh - New Holstein		
Common Well Name MW-1 Gov't Lot (if applicable)			Facility ID	License/Permit/Monitoring No.	
Grid Location 1/4 of 1/4 of Sec. ; T. N; R. <input type="checkbox"/> E <input type="checkbox"/> W ft. <input type="checkbox"/> N. <input type="checkbox"/> S. ft. <input type="checkbox"/> E. <input type="checkbox"/> W. Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/>) or Well Location <input checked="" type="checkbox"/>			Street Address of Well 1604 Michigan Ave.		
Lat ° ' " Long ° ' " or State Plane ft. N. ft. E. <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> Zone			City, Village, or Town New Holstein		
Reason For Abandonment Testing completed			Present Well Owner Tecumseh		
WI Unique Well No. of Replacement Well			Original Owner Tecumseh		
Street Address or Route of Owner 1604 Michigan Ave.			City, State, Zip Code New Holstein, WI 53061		

(3) WELL/DRILLHOLE/BOREHOLE INFORMATION			(4) PUMP, LINER, SCREEN, CASING, & SEALING MATERIAL		
Original Construction Date 6/21/2006 <input type="checkbox"/> Monitoring Well <input type="checkbox"/> Water Well <input checked="" type="checkbox"/> Drillhole / Borehole If a Well Construction Report is available, please attach. Construction Type: <input checked="" type="checkbox"/> Drilled <input type="checkbox"/> Driven (Sandpoint) <input type="checkbox"/> Dug <input type="checkbox"/> Other (Specify) Formation Type: <input checked="" type="checkbox"/> Unconsolidated Formation <input type="checkbox"/> Bedrock Total Well Depth (ft) Casing Diameter (in.) (From ground surface) Casing Depth (ft.) Lower Drillhole Diameter (in.) Was Well Annular Space Grouted? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Unknown If Yes, To What Depth? Feet Depth to Water (Feet)			Pump & Piping Removed? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Not Applicable Liner(s) Removed? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Not Applicable Screen Removed? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Applicable Casing Left in Place? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Was Casing Cut Off Below Surface? <input type="checkbox"/> Yes <input type="checkbox"/> No Did Sealing Material Rise to Surface? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Did Material Settle After 24 Hours? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If Yes, Was Hole Retopped? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Required Method of Placing Sealing Material <input type="checkbox"/> Conductor Pipe - Gravity <input type="checkbox"/> Conductor Pipe - Pumped <input checked="" type="checkbox"/> Screened & Poured <input type="checkbox"/> Other (Explain) (Bentonite Chips) Sealing Materials <input type="checkbox"/> Neat Cement Grout <input type="checkbox"/> Sand-Cement (Concrete) Grout <input type="checkbox"/> Concrete <input type="checkbox"/> Clay-Sand Slurry <input type="checkbox"/> Bentonite-Sand Slurry <input checked="" type="checkbox"/> Chipped Bentonite For monitoring wells and monitoring well boreholes only <input checked="" type="checkbox"/> Bentonite Chips <input type="checkbox"/> Granular Bentonite <input type="checkbox"/> Bentonite-Cement Grout <input type="checkbox"/> Bentonite - Sand Slurry		

(5) Sealing Material Used	From (Ft.)	To (Ft.)	Mix Ratio or Mud Weight
Bentonite chips	Surface	19.0	

(6) Comments No well construction information available - well overdrilled to 19 feet bgs and backfilled with bentonite.

(7) Name of Person or Firm Doing Sealing Work SES, Inc.		Date of Abandonment 6/21/06
Signature of Person Doing Work <i>[Signature]</i> (RMT)		Date Signed 4/19/07
Street or Route 1102 Stewart Street		Telephone Number (608) 274-7600
City, State, Zip Code Madison, WI 53713		

FOR DNR OR COUNTY USE ONLY	
Date Received	Noted By
Comments	

Attachment C – Original Well Construction Form

Facility/Project Name <u>Tecumseh Products Co.</u>	Local Grid Location of Well ft. <input type="checkbox"/> N. <input type="checkbox"/> S. <input type="checkbox"/> E. <input type="checkbox"/> W.	Well Name <u>MW1 SB6</u>
Facility License, Permit or Monitoring Number	Grid Origin Location Lat. _____ Long. _____ or St. Plane _____ ft. N. _____ ft. E.	Wis. Unique Well Number _____ DNR Well Number _____
Type of Well Water Table Observation Well <input checked="" type="checkbox"/> 11 Piezometer <input type="checkbox"/> 12	Section Location of Waste/Source <u>1/4 of SE 1/4 of Sec. 10 T. 17 N. R. 20</u> <input checked="" type="checkbox"/> E <input type="checkbox"/> W.	Date Well Installed <u>10 / 30 / 91</u> m m d d y y
Distance Well Is From Waste/Source Boundary ft.	Location of Well Relative to Waste/Source u <input type="checkbox"/> Upgradient s <input type="checkbox"/> Sidegradient d <input type="checkbox"/> Downgradient n <input type="checkbox"/> Not Known	Well Installed By: (Person's Name and Firm) <u>Gary Wellner</u> <u>Twin City Testing</u>
Is Well A Point of Enforcement Std. Application? <input type="checkbox"/> Yes <input type="checkbox"/> No		

A. Protective pipe, top elevation <u>928.98</u> ft. MSL	1. Cap and lock? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
B. Well casing, top elevation <u>943.3</u> ft. MSL	2. Protective cover pipe: a. Inside diameter: <u>8</u> in b. Length: <u>1</u> ft c. Material: Steel <input type="checkbox"/> 0 <u>Cast Aluminum</u> Other <input type="checkbox"/> <u>1</u> d. Additional protection? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No If yes, describe: <u>Expansion Cap</u>
C. Land surface elevation <u>944.0</u> ft. MSL	3. Surface seal: Bentonite <input type="checkbox"/> 3 Concrete <input checked="" type="checkbox"/> 0 Other <input type="checkbox"/> <u>1</u>
D. Surface seal, bottom <u>1</u> ft. MSL or <u>1</u> ft.	4. Material between well casing and protective pipe: Bentonite <input type="checkbox"/> 3 Annular space seal <input type="checkbox"/> <u>1</u> Sand Other <input type="checkbox"/> <u>1</u>
12. USCS classification of soil near screen: GP <input type="checkbox"/> GM <input type="checkbox"/> GC <input type="checkbox"/> GW <input type="checkbox"/> SW <input type="checkbox"/> SP <input type="checkbox"/> SM <input type="checkbox"/> SC <input type="checkbox"/> ML <input type="checkbox"/> MH <input type="checkbox"/> CL <input type="checkbox"/> CH <input type="checkbox"/> Bedrock <input type="checkbox"/>	5. Annular space seal: a. Granular Bentonite <input checked="" type="checkbox"/> 3 b. _____ Lbs/gal mud weight . . . Bentonite-sand slurry <input type="checkbox"/> 3 c. _____ Lbs/gal mud weight Bentonite slurry <input type="checkbox"/> 3 d. _____ % Bentonite Bentonite-cement grout <input type="checkbox"/> 5 e. <u>0.5</u> Ft ³ volume added for any of the above f. How installed: Tremie <input type="checkbox"/> 0 Tremie pumped <input type="checkbox"/> 0 Gravity <input checked="" type="checkbox"/> 0
13. Sieve analysis attached? <input type="checkbox"/> Yes <input type="checkbox"/> No	6. Bentonite seal: a. Bentonite granules <input checked="" type="checkbox"/> 3 b. <input type="checkbox"/> 1/4 in. <input type="checkbox"/> 3/8 in. <input type="checkbox"/> 1/2 in. Bentonite pellets <input type="checkbox"/> 3 c. _____ Other <input type="checkbox"/> <u>1</u>
14. Drilling method used: Rotary <input type="checkbox"/> 50 Hollow Stem Auger <input checked="" type="checkbox"/> 41 Other <input type="checkbox"/> <u>1</u>	7. Fine sand material: Manufacturer, product name & mesh size <u>Badger Mine Silica</u>
15. Drilling fluid used: Water <input type="checkbox"/> 02 Air <input type="checkbox"/> 01 Drilling Mud <input type="checkbox"/> 03 None <input checked="" type="checkbox"/> 99	b. Volume added <u>0.5</u> ft ³
16. Drilling additives used? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	8. Filter pack material: Manufacturer, product name and mesh size <u>Red Flint</u>
Describe _____	b. Volume added <u>4.0</u> ft ³
17. Source of water (attach analysis): _____	9. Well casing: Flush threaded PVC schedule 40 <input checked="" type="checkbox"/> 2 Flush threaded PVC schedule 80 <input type="checkbox"/> 2 Other <input type="checkbox"/> <u>1</u>
E. Bentonite seal, top _____ ft. MSL or <u>1</u> ft.	10. Screen material: <u>Schedule 40 PVC</u> a. Screen type: Factory cut <input checked="" type="checkbox"/> 1 Continuous slot <input type="checkbox"/> 0 Other <input type="checkbox"/> <u>1</u>
F. Fine sand, top _____ ft. MSL or <u>5</u> ft.	b. Manufacturer <u>TIMCO</u>
G. Filter pack, top _____ ft. MSL or <u>6</u> ft.	c. Slot size: <u>0010</u>
H. Screen joint, top _____ ft. MSL or <u>8</u> ft.	d. Slotted length: <u>40</u>
I. Well bottom _____ ft. MSL or <u>18</u> ft.	11. Backfill material (below filter pack): None <input checked="" type="checkbox"/> 1 Other <input type="checkbox"/> <u>1</u>
J. Filter pack, bottom _____ ft. MSL or <u>18</u> ft.	
K. Borehole, bottom _____ ft. MSL or <u>18</u> ft.	
L. Borehole, diameter <u>8</u> in.	
M. O.D. well casing <u>2.25</u> in.	
N. I.D. well casing <u>2.0</u> in.	

I hereby certify that the information on this form is true and correct to the best of my knowledge.
Signature _____ Firm _____

Please complete both sides of this form and return to the appropriate DNR office listed at the top of this form as required by chs. 144, 147 and 160, Wis. Sta. and ch. NR 141, Wis. Ad. Code. In accordance with ch. 144, Wis. Stats., failure to file this form may result in a forfeiture of not less than \$10, nor more than \$5000 for each day of violation. In accordance with ch. 147, Wis. Stats., failure to file this form may result in a forfeiture of not more than \$10,000 for each day of violation. NOTE: Shaded areas are for DNR use only. See instructions for more information including where the completed form should be sent.

Route to: Solid Waste Haz. Waste Wastewater
Env. Response & Repair Underground Tanks Other

Facility/Project Name <u>Teconizeh</u>	County Name <u>Calumet</u>	Well Name <u>Rock RMT-2011</u>
Facility License, Permit or Monitoring Number	County Code <u>54</u>	DNR Well Number <u>1167-1</u>

1. Can this well be purged dry? Yes No

2. Well development method
- surged with bailer and bailed 41
 - surged with bailer and pumped 61
 - surged with block and bailed 42
 - surged with block and pumped 62
 - surged with block, bailed and pumped 70
 - compressed air 20
 - bailed only 10
 - pumped only 51
 - pumped slowly 50
 - Other

3. Time spent developing well 50 min.

4. Depth of well (from top of well casing) 18 ft.

5. Inside diameter of well 2 in.

6. Volume of water in filter pack and well casing 6.1 gal.

7. Volume of water removed from well 15 gal.

8. Volume of water added (if any) gal.

9. Source of water added

10. Analysis performed on water added? Yes No
(If yes, attach results)

	Before Development	After Development
11. Depth to Water (from top of well casing)	a. <u>12.01</u> ft.	<u>DRY</u> ft.
Date	b. <u>11/11/91</u> m m d d y y	<u>11/11/91</u> m m d d y y
Time	c. <u>10:00</u> <input checked="" type="checkbox"/> a.m. <input type="checkbox"/> p.m.	<u>11:00</u> <input checked="" type="checkbox"/> a.m. <input type="checkbox"/> p.m.
12. Sediment in well bottom	<u> </u> inches	<u> </u> inches
13. Water clarity	Clear <input type="checkbox"/> 10 Turbid <input checked="" type="checkbox"/> 15 (Describe) <u>very silty</u>	Clear <input type="checkbox"/> 20 Turbid <input checked="" type="checkbox"/> 25 (Describe)

Fill in if drilling fluids were used and well is at solid waste facility:

14. Total suspended solids mg/l mg/l

15. COD mg/l mg/l

16. Additional comments on development:

purged dry within 10 gallons. After 30 min. recovered 4 gallons.

Well developed by: Person's Name and Firm

Name: Kristine Stehr
Duane Stillings

Firm: Dames & Moore

I hereby certify that the above information is true and correct to the best of my knowledge.

Signature: Kristine Stehr

Print Initials: KMS

Firm: DAMES & MOORE

Route To:
 Solid Waste
 Wastewater
 Emergency Response
 Haz. Waste
 Underground Tanks
 Water Resources
 Other _____

SOIL BORING LOG INFORMATION
Form 4400-122 7-91

Facility/Project Name Tecumseh Products Company	License/Permit/Monitoring Number _____	Boring Number SB-6
---	---	------------------------------

Boring Drilled By (Firm name and name of crew chief) Twin City Testing Gary Wellner	Date Drilling Started <u>10 / 30 / 91</u> MM DD YY	Date Drilling Completed <u>10 / 30 / 91</u> MM DD YY	Drilling Method Hollow-stem Auger 3 1/4" I.D.
---	--	--	---

DNR Facility Well No. _____	WI Unique Well No. _____	Common Well Name MW-1	Final Static Water Level _____ Feet MSL	Surface Elevation _____ Feet MSL	Borehole Diameter <u>7</u> inches
--------------------------------	-----------------------------	---------------------------------	--	-------------------------------------	--------------------------------------

Boring Location State Plane _____ N, _____ E S/C/N _____ 1/4 of SE 1/4 of Section <u>10</u> T <u>17</u> N, R <u>20</u> (E/W)	Lat. _____ Long _____	Local Grid Location (If Applicable) <input type="checkbox"/> N <input type="checkbox"/> E <input type="checkbox"/> S <input type="checkbox"/> W
--	--------------------------	---

County Calumet	DNR County Code <u>0 8</u>	Civil Town/City/ or Village New Holstein
--------------------------	-------------------------------	--

Sample Number	Length Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID ppm	Soil Properties					ROD/ Comments
									Standard Penetration	Moisture Content	Liquid Limit	Plastic Limit	P 200	
6-1	19	13	1-3'	FILL: sandy with pebbles, gravel, tan FILL: Next 3' black, paint chips, metal shavings, ash Bottom 14" SAND: silty, grey, gravel and pebbles	SP			57.2 2.5						
* 6-2	16	5	4-6'	SAND: Top 2" silty, brown - grey, gravel and pebbles, some organics Bottom 14" SAND: silty, brown, coarse, foundry ash, pyrite (trace), some green staining, moist	SP			1011						slight odor petroleum odor
6-3	14	10	7-9'	Fill: Top 10" sand, silty, gravel, wood chips, red brown mottling throughout Bottom 4" SILT: clayey, light brown some limonite (yellow) nodules, moist	SM			1.0						odor
6-4	19	7	10-12'	SILT: sandy, tan, pebbles and gravel, wet	SM			0.3						no odor
6-5	14	5	13-15'	SAND: silty, gravel and pebbles, water bearing	SM			0.4						no odor
* 6-6	24	5	16-18'	SILT: sandy, pebbles and gravel (trace), wet	SM			0.0						no odor
6-7	2	Bounded	19-21'	Same as above, water bearing Boring Terminated at 21'	SM									

* Sample submitted for analysis

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature _____	Firm DAMES & MOORE
--------------------	----------------------------------

This form is authorized by Chapters 144.147 and 162, Wis. Stats. Completion of this report is mandatory. Penalties: Forfeit not less than \$10 nor more than \$5,000 for each violation. Fined not less than \$10 or more than \$100 or imprisoned not less than 30 days, or both for each violation. Each day of continued violation is a separate offense, pursuant to ss 144.99 and 162.06, Wis. Stats

Nass, Alan T - DNR

From: Nass, Alan T - DNR
Sent: Thursday, March 03, 2011 2:57 PM
To: 'Rice, John'; 'Alyssa.Sellwood@rmtinc.com'
Cc: 'Smith, Jason'; 'Tom.Stolzenburg@rmtinc.com'
Subject: Approval - Tecumseh Work Plan

Importance: High

Hello John and Alyssa:

I have reviewed and hereby approve the January 31, 2011 work plan RMT submitted for BRRTS cases 02-08-100332, 03-08-001071, and 02-08-193776 at the former Tecumseh Products Company in New Holstein, Wisconsin. Please proceed with the work. Please contact me with any questions you may have.

Jason - thanks to Tecumseh Products for doing this work.

Nass, Alan T - DNR

From: Smith, Jason [Jason.Smith@tecumseh.com]
Sent: Thursday, May 20, 2010 8:12 AM
To: Nass, Alan T - DNR
Cc: Stolzenburg, Tom
Subject: RE: Former Tecumseh - New Holstein. WI
Attachments: Tom Stolzenburg.vcf

Alan,

I was in Nashville the last two days at a waste water training class. As soon as I opened your first e-mail, I realized that RMT would be our assistance group. I have contacted Tom Stolzenburg for assistance regarding these matters. I am certain that they will be able to assist us.

Regards,

Jason Smith

Tom Stolzenburg

RMT, Inc.
Project Manager

+1 (608) 662-5287 Work
tom.stolzenburg@rmtinc.com

744 Heartland Trail
Madison, WI 53717

S. Jason Smith

Corporate Environmental Director

Tecumseh Products Company

2700 West Wood Street

Paris, TN 38242

e-mail - jason.smith@tecumseh.com

05/20/2010

phone - 731-644-8127

cell - 731-707-2889

fax - 731-644-8156



"Before printing, think about the environment"

Outgoing messages, along with any attachments, are scanned for viruses prior to sending.

NOTICE-- This email may contain confidential and privileged information for the sole use of the intended recipient. Any review or distribution by others is strictly prohibited. If you are not the intended recipient, please contact the sender immediately and delete all copies.

From: Nass, Alan T - DNR [mailto:Alan.Nass@wisconsin.gov]
Sent: Wednesday, May 19, 2010 4:56 PM
To: Smith, Jason
Subject: FW: Former Tecumseh - New Holstein. WI
Importance: High

Jason - The company that produced the May 3, 2007 report was RMT not TRC. Sorry for the confusion.

- DNR
 May 19, 2010 4:25 PM
 opher (Chicago,IL-US); 'SMcAnulty@TRCSOLUTIONS.com'; 'JRice@TRCSOLUTIONS.com'; Jason Smith
 Tecumseh - New Holstein. WI

Hello to all - I am looking for help and hope you can assist me. I am looking for contacts and updates on the status of the investigation of three environmental contamination cases at the former Tecumseh Plant in New Holstein, Wisconsin. It is my understanding that this property was sold to Heus Manufacturing in 2007. You may not be aware of it, but Heus closed its doors due to bankruptcy several months ago. The most recent information that I have is that the current owner (not the one who owned Heus at the time it purchased the Tecumseh property) can not be located. For that reason, I am looking to you for assistance to update me on these sites.

There are five open environmental contamination investigations at the site. Two of the cases (02-08-363333 chromium and 02-08-281506 PCBs) are being handled by TRC. I don't have any questions regarding those two cases.

Two of the three remaining cases (02-08-100332 chlorinated/petroleum, 03-08-001071 petroleum/chlorinated) were the responsibility of Tecumseh with the responsibility likely transferring to Heus at the time of property sale (**is this correct?**). The third remaining open case (02-08-193776 petroleum) again was the responsibility of Tecumseh with that responsibility likely transferring to Heus at the time of property sale (**again - correct?**). This later case had been given conditional closure in August 2004 but remains open due to the need to abandon a monitoring well.

In regards to two of the three remaining open cases (02-08-100332 and 03-08-001071), TRC produced a work plan dated May 3, 2007 which proposed the placement of 4 additional monitoring wells NE of the Tecumseh Plant and also proposed additional groundwater sampling. **Were these wells installed and/or has there any additional sampling or any other work done at the site in regards to these two cases?**

Regarding the conditionally closed case (02-08-193776), **do you know if the monitoring well has been abandoned?**

I would appreciate what ever information you can provide me. Thank you in advance.

05/20/2010

Nass, Alan T - DNR

From: Nass, Alan T - DNR
Sent: Wednesday, May 19, 2010 4:56 PM
To: Jason Smith
Subject: FW: Former Tecumseh - New Holstein. WI

Importance: High

Jason - The company that produced the May 3, 2007 report was RMT not TRC. Sorry for the confusion.

From: Nass, Alan T - DNR
Sent: Wednesday, May 19, 2010 4:25 PM
To: 'Harvey, Christopher (Chicago,IL-US)'; 'SMcAnulty@TRCSOLUTIONS.com'; 'JRice@TRCSOLUTIONS.com'; Jason Smith
Subject: Former Tecumseh - New Holstein. WI
Importance: High

Hello to all - I am looking for help and hope you can assist me. I am looking for contacts and updates on the status of the investigation of three environmental contamination cases at the former Tecumseh Plant in New Holstein, Wisconsin. It is my understanding that this property was sold to Heus Manufacturing in 2007. You may not be aware of it, but Heus closed its doors due to bankruptcy several months ago. The most recent information that I have is that the current owner (not the one who owned Heus at the time it purchased the Tecumseh property) can not be located. For that reason, I am looking to you for assistance to update me on these sites.

There are five open environmental contamination investigations at the site. Two of the cases (02-08-363333 chromium and 02-08-281506 PCBs) are being handled by TRC. I don't have any questions regarding those two cases.

Two of the three remaining cases (02-08-100332 chlorinated/petroleum, 03-08-001071 petroleum/chlorinated) were the responsibility of Tecumseh with the responsibility likely transferring to Heus at the time of property sale (**is this correct?**). The third remaining open case (02-08-193776 petroleum) again was the responsibility of Tecumseh with that responsibility likely transferring to Heus at the time of property sale (**again - correct?**). This later case had been given conditional closure in August 2004 but remains open due to the need to abandon a monitoring well.

In regards to two of the three remaining open cases (02-08-100332 and 03-08-001071), TRC produced a work plan dated May 3, 2007 which proposed the placement of 4 additional monitoring wells NE of the Tecumseh Plant and also proposed additional groundwater sampling. **Were these wells installed and/or has there any additional sampling or any other work done at the site in regards to these two cases?**

Regarding the conditionally closed case (02-08-193776), **do you know if the monitoring well has been abandoned?**

I would appreciate what ever information you can provide me. Thank you in advance.

Nass, Alan T - DNR

From: Nass, Alan T - DNR
Sent: Wednesday, May 19, 2010 4:48 PM
To: 'Harvey, Christopher (Chicago,IL-US)'
Subject: RE: Former Tecumseh - New Holstein. WI

Chris - Yes, I realized that as soon as I hit send. It was RMT not TRC. Thanks!

From: Harvey, Christopher (Chicago,IL-US) [mailto:CHarvey@TRCSOLUTIONS.com]
Sent: Wednesday, May 19, 2010 4:36 PM
To: Nass, Alan T - DNR; SMcAnulty@TRCSOLUTIONS.com; JRice@TRCSOLUTIONS.com; Jason Smith
Subject: RE: Former Tecumseh - New Holstein. WI

Alan,

TRC did not produce a work plan, dated May 3, 2007, for the two of the three remaining open cases.

If there is anything else I can help you with, please let me know.

Chris

From: Nass, Alan T - DNR [mailto:Alan.Nass@wisconsin.gov]
Sent: Wednesday, May 19, 2010 4:25 PM
To: Harvey, Christopher (Chicago,IL-US); SMcAnulty@TRCSOLUTIONS.com; JRice@TRCSOLUTIONS.com; Jason Smith
Subject: Former Tecumseh - New Holstein. WI
Importance: High

Hello to all - I am looking for help and hope you can assist me. I am looking for contacts and updates on the status of the investigation of three environmental contamination cases at the former Tecumseh Plant in New Holstein, Wisconsin. It is my understanding that this property was sold to Heus Manufacturing in 2007. You may not be aware of it, but Heus closed its doors due to bankruptcy several months ago. The most recent information that I have is that the current owner (not the one who owned Heus at the time it purchased the Tecumseh property) can not be located. For that reason, I am looking to you for assistance to update me on these sites.

There are five open environmental contamination investigations at the site. Two of the cases (02-08-363333 chromium and 02-08-281506 PCBs) are being handled by TRC. I don't have any questions regarding those two cases.

Two of the three remaining cases (02-08-100332 chlorinated/petroleum, 03-08-001071 petroleum/chlorinated) were the responsibility of Tecumseh with the responsibility likely transferring to Heus at the time of property sale (**is this correct?**). The third remaining open case (02-08-193776 petroleum) again was the responsibility of Tecumseh with that responsibility likely transferring to Heus at the time of property sale (**again - correct?**). This later case had been given conditional closure in August 2004 but remains open due to the need to abandon a monitoring well.

In regards to two of the three remaining open cases (02-08-100332 and 03-08-001071), TRC produced a work plan dated May 3, 2007 which proposed the placement of 4 additional monitoring wells NE of the Tecumseh Plant and also proposed additional groundwater sampling. **Were these wells installed and/or has there any additional sampling or any other work done at the site in regards to these two cases?**

Regarding the conditionally closed case (02-08-193776), **do you know if the monitoring well has been**

abandoned?

I would appreciate what ever information you can provide me. Thank you in advance.

Nass, Alan T - DNR

From: Nass, Alan T - DNR
Sent: Wednesday, May 19, 2010 4:34 PM
To: 'John.Rice@rmtinc.com'
Subject: FW: Former Tecumseh - New Holstein. WI

Importance: High

John - Sorry, I placed you at TRC not RMT. I understand Stacy is no longer with RMT. Hope you can help me.

From: Nass, Alan T. - DNR
Sent: Wednesday, May 19, 2010 4:25 PM
To: 'Harvey, Christopher (Chicago,IL-US)'; 'SMcAnulty@TRCSOLUTIONS.com'; 'JRice@TRCSOLUTIONS.com'; Jason Smith
Subject: Former Tecumseh - New Holstein. WI
Importance: High

Hello to all - I am looking for help and hope you can assist me. I am looking for contacts and updates on the status of the investigation of three environmental contamination cases at the former Tecumseh Plant in New Holstein, Wisconsin. It is my understanding that this property was sold to Heus Manufacturing in 2007. You may not be aware of it, but Heus closed its doors due to bankruptcy several months ago. The most recent information that I have is that the current owner (not the one who owned Heus at the time it purchased the Tecumseh property) can not be located. For that reason, I am looking to you for assistance to update me on these sites.

There are five open environmental contamination investigations at the site. Two of the cases (02-08-363333 chromium and 02-08-281506 PCBs) are being handled by TRC. I don't have any questions regarding those two cases.

Two of the three remaining cases (02-08-100332 chlorinated/petroleum, 03-08-001071 petroleum/chlorinated) were the responsibility of Tecumseh with the responsibility likely transferring to Heus at the time of property sale (**is this correct?**). The third remaining open case (02-08-193776 petroleum) again was the responsibility of Tecumseh with that responsibility likely transferring to Heus at the time of property sale (**again - correct?**). This later case had been given conditional closure in August 2004 but remains open due to the need to abandon a monitoring well.

In regards to two of the three remaining open cases (02-08-100332 and 03-08-001071), TRC produced a work plan dated May 3, 2007 which proposed the placement of 4 additional monitoring wells NE of the Tecumseh Plant and also proposed additional groundwater sampling. **Were these wells installed and/or has there any additional sampling or any other work done at the site in regards to these two cases?**

Regarding the conditionally closed case (02-08-193776), **do you know if the monitoring well has been abandoned?**

I would appreciate what ever information you can provide me. Thank you in advance.

Nass, Alan T - DNR

From: Nass, Alan T - DNR
Sent: Wednesday, May 19, 2010 4:25 PM
To: 'Harvey, Christopher (Chicago,IL-US)'; 'SMcAnulty@TRCSOLUTIONS.com'; 'JRice@TRCSOLUTIONS.com'; Jason Smith
Subject: Former Tecumseh - New Holstein. WI
Importance: High

Hello to all - I am looking for help and hope you can assist me. I am looking for contacts and updates on the status of the investigation of three environmental contamination cases at the former Tecumseh Plant in New Holstein, Wisconsin. It is my understanding that this property was sold to Heus Manufacturing in 2007. You may not be aware of it, but Heus closed its doors due to bankruptcy several months ago. The most recent information that I have is that the current owner (not the one who owned Heus at the time it purchased the Tecumseh property) can not be located. For that reason, I am looking to you for assistance to update me on these sites.

There are five open environmental contamination investigations at the site. Two of the cases (02-08-363333 chromium and 02-08-281506 PCBs) are being handled by TRC. I don't have any questions regarding those two cases.

Two of the three remaining cases (02-08-100332 chlorinated/petroleum, 03-08-001071 petroleum/chlorinated) were the responsibility of Tecumseh with the responsibility likely transferring to Heus at the time of property sale (**is this correct?**). The third remaining open case (02-08-193776 petroleum) again was the responsibility of Tecumseh with that responsibility likely transferring to Heus at the time of property sale (**again - correct?**). This later case had been given conditional closure in August 2004 but remains open due to the need to abandon a monitoring well.

In regards to two of the three remaining open cases (02-08-100332 and 03-08-001071), TRC produced a work plan dated May 3, 2007 which proposed the placement of 4 additional monitoring wells NE of the Tecumseh Plant and also proposed additional groundwater sampling. **Were these wells installed and/or has there any additional sampling or any other work done at the site in regards to these two cases?**

Regarding the conditionally closed case (02-08-193776), **do you know if the monitoring well has been abandoned?**

I would appreciate what ever information you can provide me. Thank you in advance.

Nass, Alan T - DNR

From: Nass, Alan T - DNR
Sent: Monday, April 06, 2009 3:12 PM
To: Jason Smith
Subject: Tecumseh - New Holstein
Importance: High

Jason - Hello, I am the WDNR Project Manager for all of the Tecumseh contamination cases in New Holstein. What would be very helpful is if you can confirm or provide correct information of who is responsible (company name, contact person name, address, telephone number, e-mail, etc.) for each open cases in New Holstein / or if you could put me in touch with who would know.

According to my records,there are 5 open cases:

02-08-363333 (chromium line) TRC is responsible
02-08-281506 (Hayton PCB Remediation) TRC is responsible

02-08-193776 (conditionally closed - needs proof of monitoring well abandonment) Tecumseh is responsible
02-08-100332 (chlorinated mixed w/petroleum - case below) Tecumseh is responsible
03-08-001071 (petroleum mixed w/ chlorinated - case above) Tecumseh is responsible

Can you provide me with or direct me to someone in Tecumseh who can provide me with updates on the status of the cases that Tecumseh is responsible for?

Also, I need to have a copy of all written agreements (e.g. between Tecumseh & TRC or Tecumseh & Hues Manufacturing) regarding who is responsible for the different environmental investigation/remediation cases at the Tecumseh New Holstein site. Can you provide this to me or can you direct me to someone who can?

Thanks Jason!

From: Tom Stolzenburg [mailto:Tom.Stolzenburg@rmtinc.com]
Sent: Monday, April 06, 2009 2:15 PM
To: Jason Smith
Cc: Nass, Alan T - DNR
Subject: Tecumseh, New Holstein legal liabilities

Alan Nass can make changes to the state records as to who is responsible for which project/property in New Holstein if you send him some documentation. Alan's address is:

Attn. Alan Nass
Wisconsin Department of Natural Resources
2984 Shawano Avenue
Green Bay, WI 54313-6727

His phone number is 920-662-5161
His e-mail address should appear above.

Alan would like to know who at Tecumseh should be his contact.

Outgoing messages, along with any attachments, are scanned for viruses prior to sending.

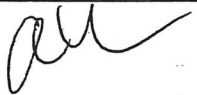
NOTICE-- This email may contain confidential and privileged information for the sole use of the intended recipient. Any review or distribution by others is strictly prohibited. If you are not the intended recipient,

Case Number 02-08-100332 / 03-08-001071 / 02-08-193776, 06-08-548042	Case Title Tecumseh Products Company – New Holstein
Activity Meeting with Tecumseh & Heus Manufacturing	Date of Activity 4/24/07 (10 AM – 11:30 AM)

Narrative

On this date, a meeting was held at the Oshkosh WDNR Office. Present were: S. Jason Smith (Tecumseh Corporate Environmental Director), John Rice & Stacy McNulty (RMT, Inc. – consultants for Tecumseh), Edward Daeger (VP – Heus Manufacturing), Mark Enneper (Chief Executive Officer – Heus Manufacturing), D’Arcy Gravelle (Key Environmental Group, Inc. – consultant for Heus), and Alan Nass (WDNR). The meeting was held at the request of Stacy McNulty for the purpose of reviewing status of open contamination cases being handled by Key for Tecumseh and discuss what additional work would be needed at the site.

RMT made a brief presentation on the status of the cases, a summary of work done to date, and their proposal for additional work on 02-08-100332 (chlorinated case). Regarding the proposed work for 02-08-100332, I stated that the DNR would want to see more than one new well nest down-gradient of M-33/M-33D – possibly 3 to 4 new nests with piezometers (two depths), sample 1/4ly, include NA parameters, and include remaining old wells at NW & SW corner of plant. An effort should be made to locate old, lost monitoring wells at the NW and SW corners. Work on 02-08-001071 could be included with 02-08-100332. I said that 02-08-193776 would be closed soon now that I had received the well abandonment form from RMT. RMT will send me a proposal for the additional work. I will review & discuss it with Key Environmental. & respond to RMT.

Hydrogeologist Alan Thomas Nass 	Date of Report 4/24/07	Exhibit Reference
--	---------------------------	-------------------

This document was produced as a result of an official Law Enforcement investigation. Contents, in whole or part, are privileged by s. 905.09, Wis. Stats., and may not be used without express permission of the Wisconsin Warden service or appropriate prosecutor.



State of Wisconsin \ DEPARTMENT OF NATURAL RESOURCES

Jim Doyle, Governor
Scott Hassett, Secretary
Ronald W. Kazmierczak, Regional Director

Northeast Region Headquarters
1125 N. Military Ave., P.O. Box 10448
Green Bay, Wisconsin 54307-0448
Telephone 920-492-5800
FAX 920-492-5913
TTY 711

August 4, 2004

Mr. Bharat Shah
Tecumseh Products
1604 Michigan Avenue
New Holstein, Wisconsin 53061

Subject: Conditional Case Closure By Project Manager, Tecumseh East Section Fill Area,
1604 Michigan Avenue, New Holstein, Wisconsin BRRTS #: 02-08-193776

Dear Mr. Shah:

On August 4, 2004, the above case was reviewed for closure by the Department of Natural Resources. The Department reviews environmental remediation cases for compliance with state laws and standards to maintain consistency in the closure of these cases. Upon review of the case, it was determined that it could be closed pending the abandonment of the monitoring well.

The original case closure was received March 15, 2000. The Department responded with a letter dated May 31, 2000 stating that additional investigation was needed. This additional investigation information was then received on May 22, 2003. At that time, I filed the information and forgot about the closure request. I apologize for the delay of my review of your request, this was total my error.

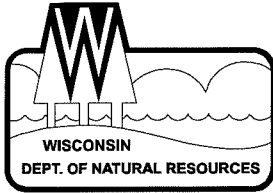
This case will be closed upon receipt of documentation of proper abandonment of monitoring well MW-1. According to Department records, this well still exists. If this well has already been abandon or you would like to keep it for monitoring purposes, please inform me. Otherwise, please have it properly abandon and submit the documentation of such. Upon receipt of the documentation or your request to keep the well for monitoring purposes, this case will be officially closed.

The Department appreciates your efforts to restore the environment at this site. If you have any questions regarding this letter, please contact me in Green Bay at 920-492-5861.

Yours truly,

Alan Thomas Nass, P.G., P.S.
Hydrogeologist

cc: Dan Pelczar, KEY Engineering Group, Inc., 735 North Water Street, Milwaukee,
Wisconsin 53202



State of Wisconsin \ DEPARTMENT OF NATURAL RESOURCES

Jim Doyle, Governor
Scott Hassett, Secretary
Ronald Kazmierczak, Regional Director

Northeast Region Headquarters
1125 N. Military Ave., P.O. Box 10448
Green Bay, Wisconsin 54307-0448
Telephone 920-492-5800
FAX 920-492-5913
TDD 920-492-5912

WASTE MANAGEMENT AND BUREAU FOR REMEDATION AND REDEVELOPMENT

FAX TRANSMITTAL SHEET

Date: August 4, 2004

TO

Name: Mr. Bharat Shah

Company/Agency: Tecumseh Products

Fax Number: 920-898-2701

FROM

Name: Alan Nass *an*

Company/Agency: WDNR

Phone Number: 920-492-5861

Pages to follow (excluding cover sheet): 1

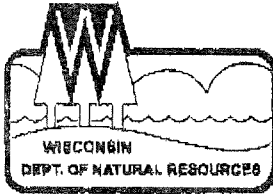
Comments/Message: Conditional Closure – Tecumseh Products East Fill Area, BRRTS # 02-08-193776. Case was conditionally closed pending the proper abandonment / documentation of Monitoring Well MW-1. I apologize for the delay in reviewing this request. Please contact me if you have any questions.

MESSAGE CONFIRMATION

08/04/2004 11:48
ID=WI DNR NER SOLID WASTE

DATE	S.R-TIME	DISTANT STATION ID	MODE	PAGES	RESULT
08/04	00'27"	9208982701	CALLING	02	OK 0000

08/04/2004 11:47 WI DNR NER SOLID WASTE → 819208982701 NO.167 001



State of Wisconsin \ DEPARTMENT OF NATURAL RESOURCES

Jim Doyle, Governor
Scott Hassett, Secretary
Ronald Kazmierczak, Regional Director

Northeast Region Headquarters
1125 N. Military Ave., P.O. Box 10448
Green Bay, Wisconsin 54307-0448
Telephone 920-492-5800
FAX 920-492-5913
TDD 920-492-5912

WASTE MANAGEMENT AND BUREAU FOR REMEDICATION AND REDEVELOPMENT

FAX TRANSMITTAL SHEET

Date: August 4, 2004

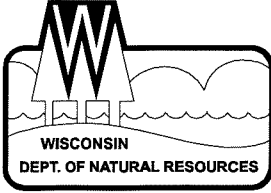
TO

Name: Mr. Bharat Shah

Company/Agency: Tecumseh Products

Fax Number: 920-898-2701

FROM



State of Wisconsin \ DEPARTMENT OF NATURAL RESOURCES

Jim Doyle, Governor
Scott Hassett, Secretary
Ronald Kazmierczak, Regional Director

Northeast Region Headquarters
1125 N. Military Ave., P.O. Box 10448
Green Bay, Wisconsin 54307-0448
Telephone 920-492-5800
FAX 920-492-5913
TDD 920-492-5912

WASTE MANAGEMENT AND BUREAU FOR
REMEDIATION AND REDEVELOPMENT

FAX TRANSMITTAL SHEET

Date: August 4, 2004

TO

Name: Dan Pelczar

Company/Agency: Key Engineering Group, Ltd.

Fax Number: 414-224-8383

FROM

Name: Alan Nass *an*

Company/Agency: WDNR

Phone Number: 920-492-5861

Pages to follow (excluding cover sheet): 1

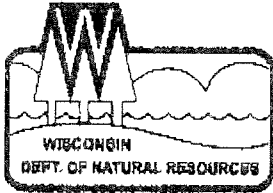
Comments/Message: Conditional Closure – Tecumseh Products East Fill Area, BRRTS # 02-08-193776. Case was conditionally closed pending the proper abandonment / documentation of Monitoring Well MW-1. I apologize for the delay in reviewing this request. If Tecumseh wants to keep the well for monitoring purposes, please let me know (are we expecting any other wells that might be abandoned/installed in the near future – i.e. to save on costs?). I hate to shag the crew out to abandon just one well when there are so many on the property. Please contact me if you have any questions.

MESSAGE CONFIRMATION

08/04/2004 11:50
ID=WI DNR NER SOLID WASTE

DATE	S.R-TIME	DISTANT STATION ID	MODE	PAGES	RESULT
08/04	00'31"	1 262 375 9680	CALLING	02	OK 0000

08/04/2004 11:49 WI DNR NER SOLID WASTE → 814142248383 NO.168 001



State of Wisconsin \ DEPARTMENT OF NATURAL RESOURCES

Jim Doyle, Governor
Scott Hassett, Secretary
Ronald Kazmierczak, Regional Director

Northeast Region Headquarters
1125 N. Military Ave., P.O. Box 10448
Green Bay, Wisconsin 54307-0448
Telephone 920-492-5800
FAX 920-492-5913
TDD 920-492-5912

WASTE MANAGEMENT AND BUREAU FOR REMEDICATION AND REDEVELOPMENT

FAX TRANSMITTAL SHEET

Date: August 4, 2004

TO

Name: Dan Pelczar

Company/Agency: Key Engineering Group, Ltd.

Fax Number: 414-224-8383

FROM



W66 N215 Commerce Court
Cedarburg, Wisconsin 53012
(262) 375-4750
(800) 645-7365
Fax (262) 375-9680



May 20, 2003

Mr. Alan Nass
Wisconsin Department of Natural Resources
Northeast Region
1125 North Military Avenue
Post Office Box 10448
Green Bay, Wisconsin 53407-0448

Reference: *Response to WDNR's May 31, 2000 Correspondence*
Tecumseh-East Section Fill Area
1604 Michigan Avenue
New Holstein, Wisconsin
WDNR BRRTS #: 02-08-193776

KEY ENGINEERING GROUP, LTD.
File No. 0809004

Dear Mr. Nass:

Pursuant to the Wisconsin Department of Natural Resources (WDNR) May 31, 2000 correspondence (attached), the purpose of this letter is to provide the additional requested soil analytical data for the above referenced site. Key Engineering Group, Ltd. (KEY) previously submitted a *Case Closure Request/Limited Site Investigation Report* (KEY, March 14, 2000) with the \$750.00 closure review fee and the WDNR *Case Summary and Closeout Forms*. Moreover, it is understood that once the WDNR receives this information the case closure review process will continue. This letter was prepared by KEY on behalf of Tecumseh Products Company.

Investigation Procedures

Three soil probes (GP-4A, GP-5A and GP-6A) were advanced with a truck-mounted Geoprobe® unit operated by Soil Essentials on April 8, 2003, in the immediate vicinity of the previous soil probe locations. The soil probe locations are depicted on Figure 1.

The soil probes were advanced to 10 or 12 feet below ground surface. Soil samples were collected at 2-foot intervals and were classified in the field in accordance with the Unified Soil Classification System. Each soil sample was also field screened for the presence of volatile organic compounds with a photoionization detector (PID). Two soil samples from each soil probe were collected from GP-4A, GP-5A and GP-6A and submitted to Test America for analysis of polynuclear aromatic hydrocarbons (PAHs) and three soil samples were collected and submitted for analysis of polychlorinated biphenyls (PCBs). The soil samples were collected from the fill (one PAHs and two PCBs) and native soil (one PAHs and one PCBs) as outlined in the WDNR, May 31, 2000, correspondence. Soil probe and sampling information, soil sample classification data and field screening results are documented on soil boring logs which are included in Attachment 1. Borehole abandonment forms are also included in Attachment 1.

Mr. Alan Nass
May 20, 2003
Page 2

Results

The soil sample analytical results are summarized in Table 1. The soil sample analytical reports and chain of custody documentation are included in Appendix 2.

The results of field screening indicated that PID readings ranged from <1.0 instrument unit (i.u.) to 18 i.u. Soil sample field screening results generally indicated PID readings above background for soil samples collected from the fill material at GP-4A, GP-5A and GP-6A. Lower PID readings were measured in underlying native soils. The boring logs included in Appendix 1 include PID readings for each interval sampled.

The site investigation (SI) laboratory PAH soil sample analytical results indicated that no soil sample concentrations were greater than WDNR Interim Guidance Generic Residual Contaminant Levels for the protection of groundwater or for the direct-contact exposure pathway.

The SI laboratory PCB soil sample analytical results indicate that no soil samples contained more than 50 micrograms per kilogram.

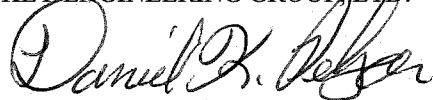
Conclusions

Based the PAH and PCB soil analysis and the previously submitted *Case Closure Request/Limited Site Investigation Report* (KEY, March 14, 2000) with the \$750.00 closure review fee and the WDNR *Case Summary and Closeout Forms* it is understood that the case closure review process will continue upon receipt of this letter.

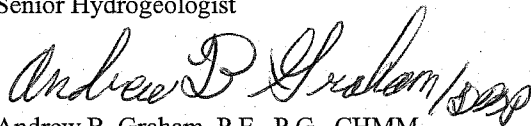
Please call if you have any questions.

Sincerely,

KEY ENGINEERING GROUP, LTD.



Daniel K. Pelczar, CPG, P.G.
Senior Hydrogeologist

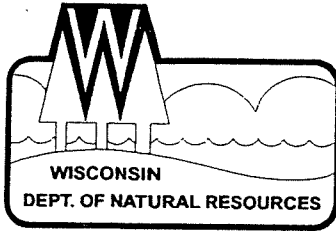


Andrew B. Graham, P.E., P.G., CHMM
Senior Engineer

DKP/vjc

cc: Mr. Bharat Shah, Tecumseh Products Company

Attachments: *Case Closure Review* (WDNR, May 31, 2000)
Table 1 - Summary of Soil Analytical Data
Figure 1 - Site Layout
Attachment 1 - Soil Probing Logs/Abandonment Forms
Attachment 2 - Soil Analytical Report/Chain of Custody Form



State of Wisconsin \ DEPARTMENT OF NATURAL RESOURCES

Tommy G. Thompson, Governor
George E. Meyer, Secretary
Ronald W. Kazmierczak, Regional Director

Northeast Region Headquarters
1125 N. Military Ave., P.O. Box 10448
Green Bay, Wisconsin 54307-0448
Telephone 920-492-5800
FAX 920-492-5913
TDD 920-492-5912

May 31, 2000

Mr. Kerry DeKeyser
Tecumseh Products
1604 Michigan Avenue
New Holstein, Wisconsin 53061

Subject: Case Closure Review, Tecumseh Products, Contaminated Fill Area at MW-1,
1604 Michigan Avenue, New Holstein, Wisconsin **BRRTS #: 02-08-193776**

Dear Mr. DeKeyser:

I have completed my review of the above case that was submitted for closure and have noted some information to be missing. Upon receipt of this information, the case closure review process will continue.

In the Department's letter dated 10/12/98 that was addressed to yourself (copy attached), the Department required analysis for PAHs and PCBs in addition to the analysis for VOCs and RCRA metals. The PCB and PAH analyses do not appear to have been done. For the Department to consider this case for closure, PCB and PAH analyses of the soil will be needed in the area around monitoring well MW-1.

The Department will require a minimum of three soil borings in the fill around MW-1 (by GP-4, GP-5 and GP-6) with analysis for PCBs and PAHs. Samples for analysis should be collected from within the fill material and the native material immediately below the fill material. In addition, due to the thickness of the fill material, two soil samples from **within the fill per boring** should be analyzed for PCBs (i.e. a total of three PCB analyses per boring).

Once this data has been submitted to the Department, the closure review of this case will continue. Thank you for your cooperation in this matter. If you have any questions, please contact me in Green Bay at 920-492-5861.

Yours truly,

Alan Thomas Nass, P.G.
Hydrogeologist

Enclosure

Cc: Curtis Hoffart, KEY Engineering Group, W66 N215 Commerce Court, Cedarburg,
Wisconsin 53012
Dale Ziege - RR/3

TABLE 1
SUMMARY OF SOIL SAMPLE ANALYTICAL RESULTS

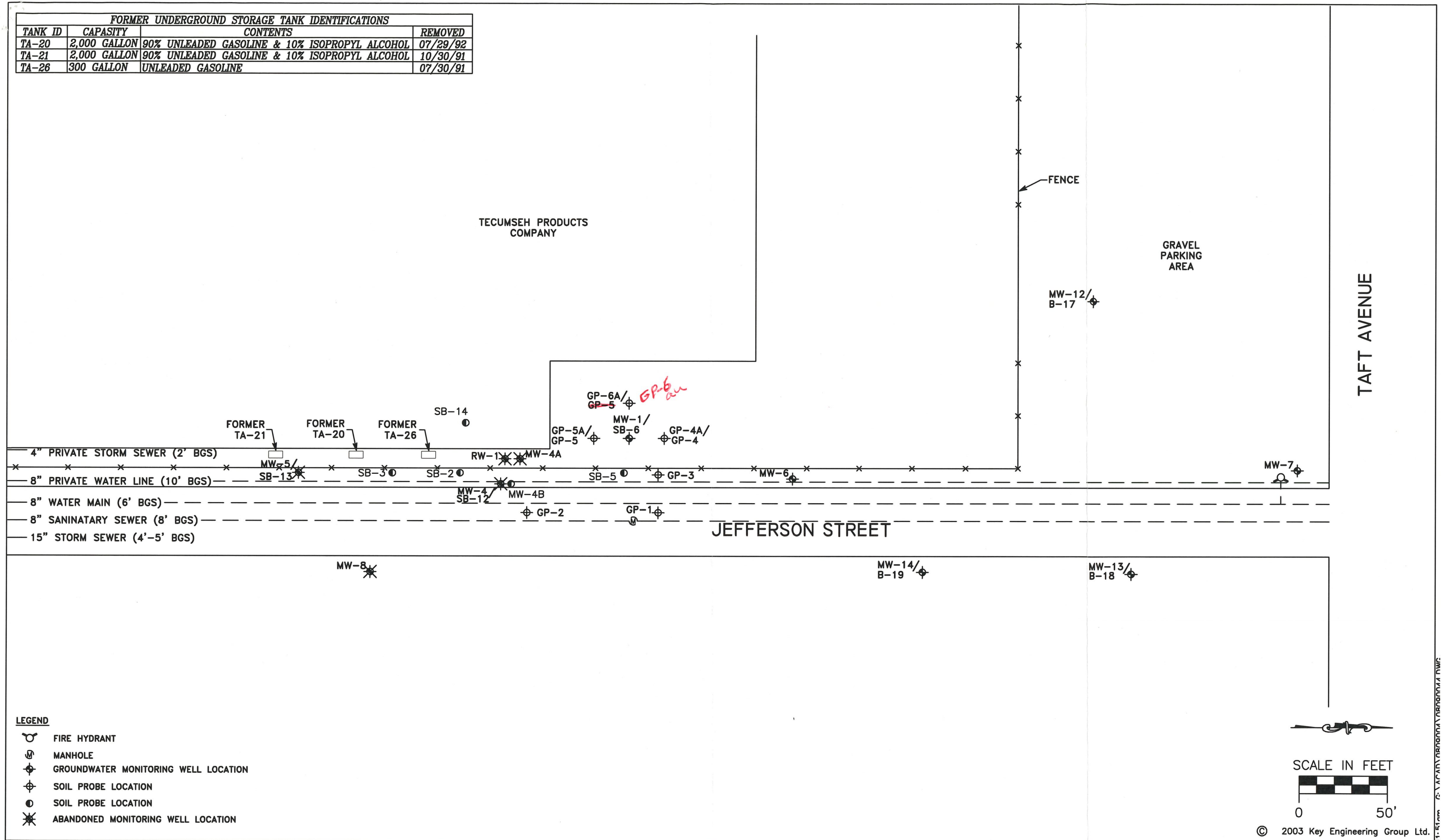
TECUMSEH - EAST SECTION FILL AREA
1604 Michigan Avenue
New Holstein, Wisconsin

	SAMPLE IDENTIFICATION									GENERIC RCLs	
	GP-4A			GP-5A			GP-6A			PROTECTION OF GROUNDWATER	DIRECT CONTACT (INDUSTRIAL)
Date Sampled	4/8/03	4/8/03	4/8/03	4/8/03	4/8/03	4/8/03	4/8/03	4/8/03	4/8/03	---	---
Depth (feet)	0-2	4-6	8-10	0-2	4-6	8-10	0-2	4-6	8-10	---	---
PID (i.u.)	<1	<1	<1	<1	18	<1	<1	<1	<1	---	---
PAHs (µg/kg)											
Acenaphthene	---	<600	<61	---	<550	<60	---	<59	<64	38,000 (1)	60,000,000 (1)
Acenaphthylene	---	<1,000	<100	---	<930	<100	---	<100	<110	700 (1)	360,000 (1)
Anthracene	---	<60	<6.1	---	<55	<6.0	---	<5.9	<6.4	3,000,000 (1)	300,000,000 (1)
Benzo(a)anthracene	---	<60	<6.1	---	<55	<6.0	---	86	14	17,000 (1)	3,900 (1)
Benzo(a)pyrene	---	<60	<6.1	---	<55	<6.0	---	60	<6.4	48,000 (1)	390 (1)
Benzo(b)fluoranthene	---	<60	<6.1	---	<55	<6.0	---	12	<6.4	360,000 (1)	3,900 (1)
Benzo(g,h,i)perylene	---	<60	<6.1	---	<55	<6.0	---	89	<6.4	6,800,000 (1)	390,000 (1)
Benzo(k)fluoranthene	---	<60	<6.1	---	<55	<6.0	---	26	<6.4	870,000 (1)	39,000 (1)
Chrysene	---	<60	<6.1	---	69	<6.0	---	34	14	37,000 (1)	390,000 (1)
Dibenzo(a,h)anthracene	---	<91	<9.1	---	<82	<9.1	---	<8.9	<9.6	38,000 (1)	390 (1)
Fluoranthene	---	<120	<12	---	<110	<12	---	142	31	500,000 (1)	40,000,000 (1)
Fluorene	---	<120	<12	---	<110	<12	---	<12	<13	100,000 (1)	40,000,000 (1)
Indeno(1,2,3-cd)pyrene	---	<60	<6.1	---	<55	<6.0	---	30	<6.4	680,000 (1)	3,900 (1)
1-methyl naphthalene	---	<360	<36	---	<330	<36	---	<35	<38	23,000 (1)	70,000,000 (1)
2-methyl naphthalene	---	<300	<30	---	<270	<30	---	<30	<32	20,000 (1)	40,000,000 (1)
Naphthalene	---	<360	<36	---	<330	<36	---	<35	<38	400 (1)	110,000 (1)
Phenanthrene	---	<60	<6.1	---	175	<6.0	---	57	19	1,800 (1)	390,000 (1)
Pyrene	---	<60	<6.1	---	131	<6.0	---	236	36	8,700,000 (1)	30,000,000 (1)
PCBs (mg/kg)											
Aroclor 1016	<0.29	<0.30	<0.30	<0.29	<0.28	<0.30	<1.4	<0.60	<0.32	---	---
Aroclor 1221	<0.29	<0.30	<0.30	<0.29	<0.28	<0.30	<1.4	<0.60	<0.32	---	---
Aroclor 1232	<0.29	<0.30	<0.30	<0.29	<0.28	<0.30	<1.4	<0.60	<0.32	---	---
Aroclor 1242	<0.29	<0.30	<0.30	<0.29	<0.28	<0.30	<1.4	<0.60	<0.32	---	---
Aroclor 1248	<0.29	<0.30	<0.30	<0.29	<0.28	<0.30	<1.4	<0.60	<0.32	---	---
Aroclor 1254	<0.29	<0.30	<0.30	<0.29	<0.28	<0.30	1.5	<0.60	<0.32	---	---
Aroclor 1260	<0.29	<0.30	<0.30	<0.29	<0.28	<0.30	<1.4	<0.60	<0.32	---	---
Total PCBs	<0.29	<0.30	<0.30	<0.29	<0.28	<0.30	1.5	<0.60	<0.32	---	---

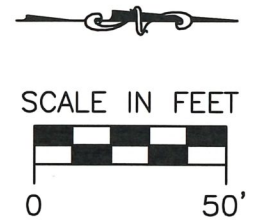
Notes:

Bold values exceed the WDNR Interim Guidance (1) protection of groundwater values
 Boxed values exceed the WDNR Interim Guidance (1) direct-contact values
 --- - not analyzed, not applicable or no standard established
 (1) - From Soil Cleanup Levels for PAHs Interim Guidance, WDNR, PUBL-RR-519-97, April 1997, Corrected.
 bgs - below ground surface
 mg/kg - milligrams per kilogram
 NA - not applicable
 PAHs - polynuclear aromatic hydrocarbons
 PCB - polychlorinated biphenyls
 Q - result between the limit of detection and limit of quantitation
 RCLs - residual contaminant levels
 µg/kg - micrograms per kilogram

FORMER UNDERGROUND STORAGE TANK IDENTIFICATIONS			
TANK ID	CAPACITY	CONTENTS	REMOVED
TA-20	2,000 GALLON	90% UNLEADED GASOLINE & 10% ISOPROPYL ALCOHOL	07/29/92
TA-21	2,000 GALLON	90% UNLEADED GASOLINE & 10% ISOPROPYL ALCOHOL	10/30/91
TA-26	300 GALLON	UNLEADED GASOLINE	07/30/91



- LEGEND**
- FIRE HYDRANT
 - MANHOLE
 - GROUNDWATER MONITORING WELL LOCATION
 - SOIL PROBE LOCATION
 - SOIL PROBE LOCATION
 - ABANDONED MONITORING WELL LOCATION



© 2003 Key Engineering Group Ltd.

DESIGNED BY DKP	DATE 05/01/03
DRAWN BY CTM	PROJECT 0809004
APPROVED BY DJG	SHEET NO. 2
CADFILE G:\ACAD\0809004\08090044.dwg	
XREF LMAN .lay	

FIGURE 1
SITE LAYOUT
EAST SECTION FILL AREA
TECUMSEH PRODUCTS COMPANY
1604 MICHIGAN AVENUE
NEW HOLSTEIN, WISCONSIN



Map of 2003 - 11.51.mxd

Nass, Alan T.

From: Dan Pelczar [dpelczar@keyengineering.com]
Sent: Wednesday, June 16, 2004 11:35 AM
To: Nass, Alan T.
Subject: Tecumseh Products Company

Al:

I received your June 14, 2004 letter. Here is a summary of where these cases are at:

BRRTS #: 02-08-363333 (Chrome case)

KEY is not handling this case. Please contact the following environmental consultant:

NewFields #503
Mark McColloch
2110 Luann Lane, Suite 101
Madison, WI 53713
(608) 442-5223

Fax: 608-442-9013

KEY has sampled these wells as part of the case below.

BRRTS #:02-08-100332 (Chlorinated West)
BRRTS #:03-08-001071 (Petroleum West)

KEY has completed the installation of four well nest and has developed these wells in accordance with your October 31, 2003 correspondence. KEY also has sampled all wells/piezometers on site (54 total) in March 2004 and I am in the process of putting together a *Quarterly Status Update* which I should have completed next month. KEY plans on performing a second groundwater sampling event in July 2004 after some past due invoiced get paid. Also Bhart Shah has left Tecumseh earlier this year and Tecumseh is currently looking for a replacement. My temporary contact is Scott Sibert (920/898-2700) who is their Human Resources Director.

BRRTS #: 02-08-193776 (Fill case)

KEY submitted a *Response to WDNR's May 31, 2000 Correspondence* (KEY, May 20, 2003) and is awaiting for WDNR review.

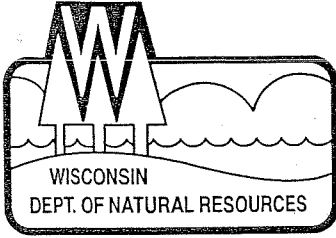
BRRTS #:02-001070 (Petroleum East)

KEY is awaiting a final case closure letter and proof of the recorded deed was submitted to the WDNR in a *Letter of Transmittal* (KEY, July, 16, 2003).

Tecumseh Products Company would really like to see the WDNR act and respond on the last two BRRTS cases ASAP cause it have been over a year now.

I hope this helps refresh your memory regarding the BRRTS cases. Please call me with any questions.

06/16/2004



State of Wisconsin \ DEPARTMENT OF NATURAL RESOURCES

Jim Doyle, Governor
Scott Hassett, Secretary
Ronald W. Kazmierczak, Regional Director

Northeast Region Headquarters
1125 N. Military Ave., P.O. Box 10448
Green Bay, Wisconsin 54307-0448
Telephone 920-492-5800
FAX 920-492-5913
TTY 711

June 14, 2004

Dan Pelczar
KEY Engineering Group, Ltd.
735 North Water Street
Suite 1000
Milwaukee, Wisconsin 53202

Subject: Status of Tecumseh Products Cases, 1604 Michigan Avenue, New Holstein,
Wisconsin (BRRTS #'s: 02-08-363333, 02-08-100332, 03-08-001071, &
02-08-193776)

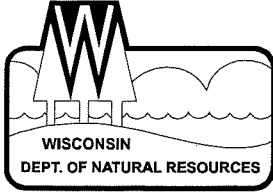
Dear Dan:

I heard you have a new office – hope it is nice. Enclosed are four fax transmittal sheets that I attempted to send to you via fax last Friday and again this morning. Evidently, your fax machine is not operational. Basically, I was wondering about the status of our Tecumseh cases. Thanks Dan.

Yours truly,

Alan Thomas Nass, P.G., P.S.
Hydrogeologist

Encl.



State of Wisconsin \ DEPARTMENT OF NATURAL RESOURCES

Jim Doyle, Governor
Scott Hassett, Secretary
Ronald Kazmierczak, Regional Director

Northeast Region Headquarters
1125 N. Military Ave., P.O. Box 10448
Green Bay, Wisconsin 54307-0448
Telephone 920-492-5800
FAX 920-492-5913
TDD 920-492-5912

WASTE MANAGEMENT AND BUREAU FOR
REMEDiation AND REDEVELOPMENT

FAX TRANSMITTAL SHEET

Date: June 11, 2004

TO

Name: Dan Pelczar

Company/Agency: KEY Engineering Group, Ltd.

Fax Number: 414-224-8383

FROM

Name: Alan Nass *an*

Company/Agency: WDNR

Phone Number: 920-492-5861

Pages to follow (excluding cover sheet): 0 *4/4*

Comments/Message: Regarding Tecumseh Products – Contaminated Fill,
1604 Michigan Avenue, New Holstein, WI (BRRTS #: 02-08-193776) >>>
Could you please update me as to the status of this case? Based on your letter
of 5/20/03, I have a feeling I should have been reviewing this case for closure. Is
that correct? If so, I apologize and will do it very shortly after I hear from you.
Thanks Dan!

Attachment 1



Route To: Watershed/Wastewater Waste Management
Remediation/Redevelopment Other

Facility/Project Name Tecumseh - East Section Fill Area			License/Permit/Monitoring Number -		Boring Number GP-4A		
Boring Drilled By: Name of crew chief (first, last) and Firm Corey Soil Essentials			Date Drilling Started 4/8/2003		Date Drilling Completed 4/8/2003		
WI Unique Well No.			DNR Well ID No.		Common Well Name GP-4A		
Final Static Water Level Feet MSL			Surface Elevation Feet MSL			Borehole Diameter 2.0 inches	
Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/>) or Boring Location <input checked="" type="checkbox"/> State Plane 1/4 of SE 1/4 of Section 10, T 17 N, R 20 E			Lat _____° _____' _____" Long _____° _____' _____"		Local Grid Location <input type="checkbox"/> N <input type="checkbox"/> E <input type="checkbox"/> S <input type="checkbox"/> W		
Facility ID		County Calumet		County Code 8		Civil Town/City/ or Village New Holstein	

Sample Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	U S C S	Graphic Log	Well Diagram	PID/FID	Soil Properties					Pocket Penetrometer
									Standard Penetration	Moisture Content	Liquid Limit	Plasticity Index	P 200	
1 SS	48 42		1	Brown, gravelly FILL, moist				<1*						
			2											
			3		Fill									
			4											
2 SS	48 38		5	-light brown, sandy lense				<1*						
			6	Dark brown to dark gray, sandy CLAY, with some gravel and organics, slight odor, (fill) moist	Fill									
			7											
			8											
3 SS	24 20		9	Brown, fine to medium, silty SAND, moist	SM			<1*						
			10	End of soil boring at 10' *Sample submitted for laboratory analysis										

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature 	Firm KEY ENGINEERING GROUP, LTD. W66 N215 COMMERCE CT. CEDARBURG, WI 53012	Tel: (262) 375-4750 Fax: (262) 375-9680
---------------	---	--

This form is authorized by Chapters 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats. Completion of this form is mandatory. Failure to file this form may result in forfeiture of between \$10 and \$25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. NOTE: See instructions for more information, including where the completed form should be sent.

Route To: Watershed/Wastewater Waste Management
Remediation/Redevelopment Other

Facility/Project Name Tecumseh - East Section Fill Area			License/Permit/Monitoring Number -		Boring Number GP-5A		
Boring Drilled By: Name of crew chief (first, last) and Firm Corey Soil Essentials			Date Drilling Started 4/8/2003		Date Drilling Completed 4/8/2003		
WI Unique Well No.			DNR Well ID No.		Common Well Name GP-5A		
Final Static Water Level Feet MSL			Surface Elevation Feet MSL		Borehole Diameter 2.0 inches		
Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/>) or Boring Location <input checked="" type="checkbox"/> State Plane 1/4 of SE 1/4 of Section 10, T 17 N, R 20 E			Lat _____ ' _____" Long _____ ' _____"		Local Grid Location <input type="checkbox"/> N <input type="checkbox"/> E <input type="checkbox"/> S <input type="checkbox"/> W		
Facility ID		County Calumet		County Code 8		Civil Town/City/ or Village New Holstein	

Sample Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties					Pocket Penetrometer
									Standard Penetration	Moisture Content	Liquid Limit	Plasticity Index	P 200	
1 SS	48 40		1	Brown, silty SAND with gravel, and rocks (fill), moist				<1*						
			2	-clayey sand lense	Fill									
2 SS	48 36		4	Dark brown, SAND with gravel (fill), moist	Fill			18*						
			5	Black, soft, silty SAND with gravel (fill), moist	Fill									
3 SS	24 24		8	Light brown to orangish brown, SAND with gravel, (fill), moist	Fill			<1*						
			9	Brown, soft, silty CLAY with gravel, moist	CL									
				End of soil boring at 10'. *Sample submitted for laboratory analysis										

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature 	Firm KEY ENGINEERING GROUP, LTD. W66 N215 COMMERCE CT. CEDARBURG, WI 53012	Tel: (262) 375-4750 Fax: (262) 375-9680
---------------	---	--

Route To: Watershed/Wastewater Waste Management
Remediation/Redevelopment Other

Facility/Project Name Tecumseh - East Section Fill Area			License/Permit/Monitoring Number -		Boring Number GP-6A		
Boring Drilled By: Name of crew chief (first, last) and Firm Corey Soil Essentials			Date Drilling Started 4/8/2003		Date Drilling Completed 4/8/2003		
WI Unique Well No.			DNR Well ID No.		Common Well Name GP-6A		
Final Static Water Level Feet MSL			Surface Elevation Feet MSL		Borehole Diameter 2.0 inches		
Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/>) or Boring Location <input checked="" type="checkbox"/> State Plane N, E S/C/N			Lat _____ ' _____ "		Local Grid Location <input type="checkbox"/> N <input type="checkbox"/> E <input type="checkbox"/> S <input type="checkbox"/> W		
1/4 of SE 1/4 of Section 10 , T 17 N, R 20 E			Long _____ ' _____ "				
Facility ID		County Calumet		County Code 8		Civil Town/City/ or Village New Holstein	

Sample Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	U S C S	Graphic Log	Well Diagram	PID/FID	Soil Properties					Pocket Penetrometer
									Standard Penetration	Moisture Content	Liquid Limit	Plasticity Index	P 200	
1 SS	48 44		1	Brown, fine to medium SAND with gravel (fill), moist	Fill			<1*						
			2	Gray to olive gray, sandy CLAY, slight odor (fill), moist	Fill									
2 SS	48 40		3					<1*						
			4	Brown, fine to medium, sandy GRAVEL (fill), moist	Fill									
3 SS	48 38		5					<1*						
			6	Dark brown to reddish brown, soft, sandy CLAY with gravel (fill), moist	Fill									
			7											
			8	-Light brown, SAND lense, wet										
			9											
			10	Brown, fine to medium, silty SAND with some gravel, moist	SM									
			11											
			12	End of soil boring at 12' *Sample submitted for laboratory analysis										

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature 	Firm KEY ENGINEERING GROUP, LTD. W66 N215 COMMERCE CT. CEDARBURG, WI 53012	Tel: (262) 375-4750 Fax: (262) 375-9680
---------------	---	--

All abandonment work shall be performed in accordance with the provisions of Chapters NR 811, NR 812 or 141, Wis. Admin. Code, whichever is applicable.

(1) GENERAL INFORMATION		(2) FACILITY NAME Tecumseh - East Section Fill Area	
Well/Drillhole/Borehole Location	County Calumet	Original Well Owner (If Known) Tecumseh Products Company	
____ 1/4 of <u>SE</u> 1/4 of Section <u>10</u> ; T. <u>17</u> N; R. <u>20</u> <input checked="" type="checkbox"/> E <input type="checkbox"/> W (If Applicable)		Present Well Owner Tecumseh Products Company	
____ Gov't Lot	____ Grid Number	Street or Route 1604 Michigan Avenue	
Grid Location ____ ft. <input type="checkbox"/> N. <input type="checkbox"/> S., ____ ft. <input type="checkbox"/> E. <input type="checkbox"/> W.		City, State, Zip Code New Holstein, WI 53061	
Civil Town Name		Facility Well No. and/or Name (If Applicable) GP-4A	WI Unique Well No.
Street Address of Well 1604 Michigan Avenue		Reason For Abandonment Investigative Soilprobe	
City, Village New Holstein		Date of Abandonment 4/8/03	

WELL/DRILLHOLE/BOREHOLE INFORMATION

(3) Original Well/Drillhole/Borehole Construction Completed On
(Date) 4/8/03

Monitoring Well
 Water Well
 Drillhole
 Borehole

Construction Report Available?
 Yes No

Construction Type:
 Drilled Driven (Sandpoint) Dug
 Other (Specify) Soilprobe

Formation Type:
 Unconsolidated Formation Bedrock

Total Well Depth (ft) 10.0 Casing Diameter (in.) _____
 (From ground surface) Casing Depth (ft.) _____

Lower Drillhole Diameter (in.) 2.0

Was Well Annular Space Grouted? Yes No Unknown
 If Yes, To What Depth? _____ Feet

(4) Depth to Water (Feet) _____

Pump & Piping Removed? Yes No Not Applicable
 Liner(s) Removed? Yes No Not Applicable
 Screen Removed? Yes No Not Applicable
 Casing Left in Place? Yes No
 If No, Explain NA

Was Casing Cut Off Below Surface? Yes No
 Did Sealing Material Rise to Surface? Yes No
 Did Material Settle After 24 Hours? Yes No
 If Yes, Was Hole Retopped? Yes No

(5) Required Method of Placing Sealing Material

Conductor Pipe - Gravity Conductor Pipe - Pumped
 Dump Bailer Other (Explain) Gravity

(6) Sealing Materials

Neat Cement Grout
 Sand-Cement (Concrete) Grout
 Concrete
 Clay-Sand Slurry
 Bentonite-Sand Slurry
 Chipped Bentonite

For monitoring wells and monitoring well boreholes only

Bentonite Pellets
 Granular Bentonite
 Bentonite-Cement Grout

(7) Sealing Material Used	From (Ft.)	To (Ft.)		Mix Ratio or Mud Weight
Cetco Crumbles	Surface	10.0		

(8) Comments _____

(9) Name of Person or Firm Doing Sealing Work
Key Engineering Group, Ltd.

Signature of Person Doing Work [Signature] Date Signed 4/15/03

Street or Route W66 N215 Commerce Court Telephone Number (262) 375-4750

City, State, Zip Code Cedarburg, WI 53012

(10) FOR DNR OR COUNTY USE ONLY	
Date Received/Inspected	District/County
Reviewer/Inspector	<input type="checkbox"/> Complying Work <input type="checkbox"/> Noncomplying Work
Follow-up Necessary	

All abandonment work shall be performed in accordance with the provisions of Chapters NR 811, NR 812 or 141, Wis. Admin. Code, whichever is applicable.

(1) GENERAL INFORMATION		(2) FACILITY NAME <u>Tecumseh - East Section Fill Area</u>	
Well/Drillhole/Borehole Location	County <u>Calumet</u>	Original Well Owner (If Known) <u>Tecumseh Products Company</u>	
<u> </u> 1/4 of <u>SE</u> 1/4 of Section <u>10</u> ; T. <u>17</u> N; R. <u>20</u> <input checked="" type="checkbox"/> E <input type="checkbox"/> W (If Applicable)		Present Well Owner <u>Tecumseh Products Company</u>	
Gov't Lot <u> </u> Grid Number <u> </u>		Street or Route <u>1604 Michigan Avenue</u>	
Grid Location <u> </u> ft. <input type="checkbox"/> N. <input type="checkbox"/> S., <u> </u> ft. <input type="checkbox"/> E. <input type="checkbox"/> W.		City, State, Zip Code <u>New Holstein, WI 53061</u>	
Civil Town Name <u> </u>		Facility Well No. and/or Name (If Applicable) <u>GP-5A</u>	WI Unique Well No. <u> </u>
Street Address of Well <u>1604 Michigan Avenue</u>		Reason For Abandonment <u>Investigative Soilprobe</u>	
City, Village <u>New Holstein</u>		Date of Abandonment <u>4/8/03</u>	

WELL/DRILLHOLE/BOREHOLE INFORMATION

(3) Original Well/Drillhole/Borehole Construction Completed On (Date) 4/8/03

Monitoring Well
 Water Well
 Drillhole
 Borehole

Construction Report Available? Yes No

Construction Type:
 Drilled Driven (Sandpoint) Dug
 Other (Specify) Soilprobe

Formation Type:
 Unconsolidated Formation Bedrock

Total Well Depth (ft) 10.0 Casing Diameter (in.)
 (From ground surface) Casing Depth (ft.)

Lower Drillhole Diameter (in.) 2.0

Was Well Annular Space Grouted? Yes No Unknown
 If Yes, To What Depth? Feet

(4) Depth to Water (Feet)

Pump & Piping Removed? Yes No Not Applicable
 Liner(s) Removed? Yes No Not Applicable
 Screen Removed? Yes No Not Applicable
 Casing Left in Place? Yes No
 If No, Explain NA

Was Casing Cut Off Below Surface? Yes No
 Did Sealing Material Rise to Surface? Yes No
 Did Material Settle After 24 Hours? Yes No
 If Yes, Was Hole Retopped? Yes No

(5) Required Method of Placing Sealing Material

Conductor Pipe - Gravity Conductor Pipe - Pumped
 Dump Bailer Other (Explain) Gravity

(6) Sealing Materials For monitoring wells and monitoring well boreholes only

Neat Cement Grout
 Sand-Cement (Concrete) Grout
 Concrete Bentonite Pellets
 Clay-Sand Slurry Granular Bentonite
 Bentonite-Sand Slurry Bentonite-Cement Grout
 Chipped Bentonite

(7) Sealing Material Used	From (Ft.)	To (Ft.)	Mix Ratio or Mud Weight
Cetco Crumbles	Surface	10.0	

(8) Comments

(9) Name of Person or Firm Doing Sealing Work
Key Engineering Group, Ltd.

Signature of Person Doing Work *[Signature]* Date Signed 4/15/03

Street or Route W66 N215 Commerce Court Telephone Number (262) 375-4750

City, State, Zip Code Cedarburg, WI 53012

(10) FOR DNR OR COUNTY USE ONLY	
Date Received/Inspected	District/County
Reviewer/Inspector	<input type="checkbox"/> Complying Work <input type="checkbox"/> Noncomplying Work
Follow-up Necessary	

All abandonment work shall be performed in accordance with the provisions of Chapters NR 811, NR 812 or 141, Wis. Admin. Code, whichever is applicable.

(1) GENERAL INFORMATION		(2) FACILITY NAME Tecumseh - East Section Fill Area	
Well/Drillhole/Borehole Location	County Calumet	Original Well Owner (If Known) Tecumseh Products Company	
____ 1/4 of <u>SE</u> 1/4 of Section <u>10</u> ; T. <u>17</u> N; R. <u>20</u> <input checked="" type="checkbox"/> E <input type="checkbox"/> W		Present Well Owner Tecumseh Products Company	
(If Applicable) Gov't Lot _____ Grid Number _____		Street or Route 1604 Michigan Avenue	
Grid Location _____ ft. <input type="checkbox"/> N. <input type="checkbox"/> S., _____ ft. <input type="checkbox"/> E. <input type="checkbox"/> W.		City, State, Zip Code New Holstein, WI 53061	
Civil Town Name		Facility Well No. and/or Name (If Applicable) GP-6A	WI Unique Well No.
Street Address of Well 1604 Michigan Avenue		Reason For Abandonment Investigative Soilprobe	
City, Village New Holstein		Date of Abandonment 4/8/03	

WELL/DRILLHOLE/BOREHOLE INFORMATION

(3) Original Well/Drillhole/Borehole Construction Completed On (Date) 4/8/03

Monitoring Well
 Water Well
 Drillhole
 Borehole

Construction Report Available? Yes No

Construction Type:
 Drilled Driven (Sandpoint) Dug
 Other (Specify) Soilprobe

Formation Type:
 Unconsolidated Formation Bedrock

Total Well Depth (ft) 12.0 Casing Diameter (in.) _____
(From ground surface) Casing Depth (ft.) _____

Lower Drillhole Diameter (in.) 2.0

Was Well Annular Space Grouted? Yes No Unknown
If Yes, To What Depth? _____ Feet

(4) Depth to Water (Feet) _____

Pump & Piping Removed? Yes No Not Applicable
Liner(s) Removed? Yes No Not Applicable
Screen Removed? Yes No Not Applicable
Casing Left in Place? Yes No
If No, Explain NA

Was Casing Cut Off Below Surface? Yes No
Did Sealing Material Rise to Surface? Yes No
Did Material Settle After 24 Hours? Yes No
If Yes, Was Hole Retopped? Yes No

(5) Required Method of Placing Sealing Material

Conductor Pipe - Gravity Conductor Pipe - Pumped
 Dump Bailer Other (Explain) Gravity

(6) Sealing Materials For monitoring wells and monitoring well boreholes only

Neat Cement Grout
 Sand-Cement (Concrete) Grout
 Concrete Bentonite Pellets
 Clay-Sand Slurry Granular Bentonite
 Bentonite-Sand Slurry Bentonite-Cement Grout
 Chipped Bentonite

(7) Sealing Material Used	From (Ft.)	To (Ft.)		Mix Ratio or Mud Weight
Cetco Crumbles	Surface	12.0		

(8) Comments _____

(9) Name of Person or Firm Doing Sealing Work
Key Engineering Group, Ltd.

Signature of Person Doing Work _____ Date Signed 4/15/03

Street or Route _____ Telephone Number (262) 375-4750

W66 N215 Commerce Court
City, State, Zip Code
Cedarburg, WI 53012

(10) FOR DNR OR COUNTY USE ONLY	
Date Received/Inspected	District/County
Reviewer/Inspector	<input type="checkbox"/> Complying Work <input type="checkbox"/> Noncomplying Work
Follow-up Necessary	

Attachment 2



ANALYTICAL REPORT

Mr. Dan Pelczar
KEY ENGINEERING GROUP LTD
W66 N215 Commerce Court
Cedarburg, WI 53012

04/22/2003

Job No: 03.02972

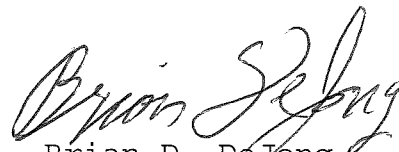
Page 1 of 11

The following samples were received by TestAmerica for analysis:

0809004 Tecumseh Products Co.

Sample Number	Sample Description	Date Taken	Date Received
519883	GP-4A 0-2'	04/08/2003	04/09/2003
519884	GP-4A 4-6'	04/08/2003	04/09/2003
519885	GP-4A 8-10'	04/08/2003	04/09/2003
519886	GP-5A 0-2'	04/08/2003	04/09/2003
519887	GP-5A 4-6'	04/08/2003	04/09/2003
519888	GP-5A 8-10'	04/08/2003	04/09/2003
519889	GP-6A 0-2'	04/08/2003	04/09/2003
519890	GP-6A 4-6'	04/08/2003	04/09/2003
519891	GP-6A 8-10'	04/08/2003	04/09/2003

Soil results reported
on a dry weight basis.



Brian D. DeJong
Organic Operations Manager

KEY TO DATA FLAGS

The attached sample(s) may have a result flag shown on the report. The following are the result flag definitions:

A = Analyzed/extracted past hold time
B = Blank is contaminated
C = Standard outside of control limits
D = Diluted for analysis
E = TCLP extraction outside of method required temperature range
F = Sample filtered in lab
G = Received past hold time
H = Late eluting hydrocarbons present
I = Improperly handled sample
J = Estimated concentration
L = Common lab solvent and contaminant
M = Matrix interference
P = Improperly preserved sample
Q = Result confirmed via re-analysis
S = Sediment present
T = Does not match typical pattern
W = BOD re-set due to missed dilution
X = Unidentified compound(s) present
Z = Internal standard outside limits
* = See Case Narrative

KEY TO ANALYST INITIALS

The attached sample(s) may have been analyzed by another certified laboratory. If a number appears in the Analyst Initials field, the following are the appropriate certifications (if the lab code does not appear below, that means that WDNR certification is not required for the work performed):

Lab Code	Certification Number
008	WDNR - 999766900
009	WDNR - 241293690
020	WDNR - 999447680
030	ILNELAC - 100230; WDNR - 998294430
060	ILNELAC - 100221; WDNR - 999447130
070	IA - 007; ILNELAC - 000668; MDH - 019-999-319; WDNR - 999917270
130	WDNR - 632021390
147	WDNR - 721026460
300	FLNELAC - 87358; IA - 131; MDH - 047-999-345; WDNR - 998020430
400	WDNR - 113133790
510	WDNR - 241249360
520	WDNR - 999518190; ILNELAC - 100439
700	WDNR - 113289110

TestAmerica Watertown WDNR - 128053530; IDNR - 294; MDH - 055-999-366; ND - R-046

For questions regarding this report, please contact Dan Milewsky or Warren Topel.

ANALYTICAL REPORT

Mr. Dan Pelczar
 KEY ENGINEERING GROUP LTD
 W66 N215 Commerce Court
 Cedarburg, WI 53012

04/22/2003
 Job No: 03.02972
 Sample No: 519883
 Account No: 45150
 Page 3 of 11

JOB DESCRIPTION: 0809004 Tecumseh Products Co.
 PROJECT DESCRIPTION: Soil Analysis
 SAMPLE DESCRIPTION: GP-4A 0-2'
 New Holstein, WI
 Rec'd at 4 degrees C

Date/Time Taken: 04/08/2003 14:10

Date Received: 04/09/2003

Parameter	Results	Units	Reporting		Method	Date		Prep/Run	
			Limit			Analyzed	Analyst	Batch	
Solids, Total	86.9	%	n/a		SW 5035	04/10/2003	kls		4835
Prep, PCB - NONAQUEOUS	Complete					04/11/2003	070	695	
PCB'S - 8082 NONAQUEOUS							070		
PCB-1016	<0.29	mg/kg	0.25		SW 8082	04/15/2003	070	695	1005
PCB-1221	<0.29	mg/kg	0.25		SW 8082	04/15/2003	070	695	1005
PCB-1232	<0.29	mg/kg	0.25		SW 8082	04/15/2003	070	695	1005
PCB-1242	<0.29	mg/kg	0.25		SW 8082	04/15/2003	070	695	1005
PCB-1248	<0.29	mg/kg	0.25		SW 8082	04/15/2003	070	695	1005
PCB-1254	<0.29	mg/kg	0.25		SW 8082	04/15/2003	070	695	1005
PCB-1260	<0.29	mg/kg	0.25		SW 8082	04/15/2003	070	695	1005
Surr: TCMX	72	%	n/a		SW 8082	04/15/2003	070	695	1005
Surr: DCB	85	%	n/a		SW 8082	04/15/2003	070	695	1005

ANALYTICAL REPORT

Mr. Dan Pelczar
 KEY ENGINEERING GROUP LTD
 W66 N215 Commerce Court
 Cedarburg, WI 53012

04/22/2003
 Job No: 03.02972
 Sample No: 519884
 Account No: 45150
 Page 4 of 11

JOB DESCRIPTION: 0809004 Tecumseh Products Co.
 PROJECT DESCRIPTION: Soil Analysis
 SAMPLE DESCRIPTION: GP-4A 4-6'
 New Holstein, WI
 Rec'd at 4 degrees C

Date/Time Taken: 04/08/2003 14:20

Date Received: 04/09/2003

Parameter	Results	Units	Reporting		Date		Prep/Run	
			Limit	Method	Analyzed	Analyst	Batch	
Solids, Total	82.8	%	n/a	SW 5035	04/10/2003	klc		4835
Prep, PCB - NONAQUEOUS	Complete				04/11/2003	070		695
PCB'S - 8082 NONAQUEOUS						070		
PCB-1016	<0.30	mg/kg	0.25	SW 8082	04/15/2003	070	695	1005
PCB-1221	<0.30	mg/kg	0.25	SW 8082	04/15/2003	070	695	1005
PCB-1232	<0.30	mg/kg	0.25	SW 8082	04/15/2003	070	695	1005
PCB-1242	<0.30	mg/kg	0.25	SW 8082	04/15/2003	070	695	1005
PCB-1248	<0.30	mg/kg	0.25	SW 8082	04/15/2003	070	695	1005
PCB-1254	<0.30	mg/kg	0.25	SW 8082	04/15/2003	070	695	1005
PCB-1260	<0.30	mg/kg	0.25	SW 8082	04/15/2003	070	695	1005
Surr: TCMX	80	%	n/a	SW 8082	04/15/2003	070	695	1005
Surr: DCB	76	%	n/a	SW 8082	04/15/2003	070	695	1005
PNA Extraction	04/16/2003			SW 3550B	04/16/2003	jts		698
PNA - 8310 NONAQUEOUS	M							
Acenaphthene	<600	ug/kg	50	SW 8310	04/21/2003	clj	698	1543
Acenaphthylene	<1,000	ug/kg	85	SW 8310	04/21/2003	clj	698	1543
Anthracene	<60	ug/kg	5.0	SW 8310	04/21/2003	clj	698	1543
Benzo(a)anthracene	<60	ug/kg	5.0	SW 8310	04/21/2003	clj	698	1543
Benzo(b)fluoranthene	<60	ug/kg	5.0	SW 8310	04/21/2003	clj	698	1543
Benzo(k)fluoranthene	<60	ug/kg	5.0	SW 8310	04/21/2003	clj	698	1543
Benzo(a)pyrene	<60	ug/kg	5.0	SW 8310	04/21/2003	clj	698	1543
Benzo(ghi)perylene	<60	ug/kg	5.0	SW 8310	04/21/2003	clj	698	1543
Chrysene	<60	ug/kg	5.0	SW 8310	04/21/2003	clj	698	1543
Dibenzo(a,h)anthracene	<91	ug/kg	7.5	SW 8310	04/21/2003	clj	698	1543
Fluoranthene	<120	ug/kg	10	SW 8310	04/21/2003	clj	698	1543
Fluorene	<120	ug/kg	10	SW 8310	04/21/2003	clj	698	1543
Indeno(1,2,3-cd)pyrene	<60	ug/kg	5.0	SW 8310	04/21/2003	clj	698	1543
1-Methylnaphthalene	<360	ug/kg	30	SW 8310	04/21/2003	clj	698	1543
2-Methylnaphthalene	<300	ug/kg	25	SW 8310	04/21/2003	clj	698	1543
Naphthalene	<360	ug/kg	30	SW 8310	04/21/2003	clj	698	1543
Phenanthrene	<60	ug/kg	5.0	SW 8310	04/21/2003	clj	698	1543
Pyrene	<60	ug/kg	5.0	SW 8310	04/21/2003	clj	698	1543
Surr: 2-Fluorobiphenyl	D/O	ug/L	51-130	SW 8310	04/21/2003	clj	698	1543

ANALYTICAL REPORT

Mr. Dan Pelczar
 KEY ENGINEERING GROUP LTD
 W66 N215 Commerce Court
 Cedarburg, WI 53012

04/22/2003
 Job No: 03.02972
 Sample No: 519885
 Account No: 45150
 Page 5 of 11

JOB DESCRIPTION: 0809004 Tecumseh Products Co.
 PROJECT DESCRIPTION: Soil Analysis
 SAMPLE DESCRIPTION: GP-4A 8-10'
 New Holstein, WI
 Rec'd at 4 degrees C

Date/Time Taken: 04/08/2003 14:30

Date Received: 04/09/2003

Parameter	Results	Units	Reporting Limit	Method	Date		Prep/Run	
					Analyzed	Analyst	Batch	
Solids, Total	82.4	%	n/a	SW 5035	04/10/2003	klb		4835
Prep, PCB - NONAQUEOUS	Complete				04/11/2003	070		695
PCB'S - 8082 NONAQUEOUS						070		
PCB-1016	<0.30	mg/kg	0.25	SW 8082	04/15/2003	070	695	1005
PCB-1221	<0.30	mg/kg	0.25	SW 8082	04/15/2003	070	695	1005
PCB-1232	<0.30	mg/kg	0.25	SW 8082	04/15/2003	070	695	1005
PCB-1242	<0.30	mg/kg	0.25	SW 8082	04/15/2003	070	695	1005
PCB-1248	<0.30	mg/kg	0.25	SW 8082	04/15/2003	070	695	1005
PCB-1254	<0.30	mg/kg	0.25	SW 8082	04/15/2003	070	695	1005
PCB-1260	<0.30	mg/kg	0.25	SW 8082	04/15/2003	070	695	1005
Surr: TCMX	87	%	n/a	SW 8082	04/15/2003	070	695	1005
Surr: DCB	89	%	n/a	SW 8082	04/15/2003	070	695	1005
PNA Extraction	04/16/2003			SW 3550B	04/16/2003	jts		698
PNA - 8310 NONAQUEOUS								
Acenaphthene	<61	ug/kg	50	SW 8310	04/18/2003	clj	698	1542
Acenaphthylene	<100	ug/kg	85	SW 8310	04/18/2003	clj	698	1542
Anthracene	<6.1	ug/kg	5.0	SW 8310	04/18/2003	clj	698	1542
Benzo(a)anthracene	<6.1	ug/kg	5.0	SW 8310	04/18/2003	clj	698	1542
Benzo(b)fluoranthene	<6.1	ug/kg	5.0	SW 8310	04/18/2003	clj	698	1542
Benzo(k)fluoranthene	<6.1	ug/kg	5.0	SW 8310	04/18/2003	clj	698	1542
Benzo(a)pyrene	<6.1	ug/kg	5.0	SW 8310	04/18/2003	clj	698	1542
Benzo(ghi)perylene	<6.1	ug/kg	5.0	SW 8310	04/18/2003	clj	698	1542
Chrysene	<6.1	ug/kg	5.0	SW 8310	04/18/2003	clj	698	1542
Dibenzo(a,h)anthracene	<9.1	ug/kg	7.5	SW 8310	04/18/2003	clj	698	1542
Fluoranthene	<12	ug/kg	10	SW 8310	04/18/2003	clj	698	1542
Fluorene	<12	ug/kg	10	SW 8310	04/18/2003	clj	698	1542
Indeno(1,2,3-cd)pyrene	<6.1	ug/kg	5.0	SW 8310	04/18/2003	clj	698	1542
1-Methylnaphthalene	<36	ug/kg	30	SW 8310	04/18/2003	clj	698	1542
2-Methylnaphthalene	<30	ug/kg	25	SW 8310	04/18/2003	clj	698	1542
Naphthalene	<36	ug/kg	30	SW 8310	04/18/2003	clj	698	1542
Phenanthrene	<6.1	ug/kg	5.0	SW 8310	04/18/2003	clj	698	1542
Pyrene	<6.1	ug/kg	5.0	SW 8310	04/18/2003	clj	698	1542
Surr: 2-Fluorobiphenyl	107	%	51-130	SW 8310	04/18/2003	clj	698	1542

ANALYTICAL REPORT

Mr. Dan Pelczar
 KEY ENGINEERING GROUP LTD
 W66 N215 Commerce Court
 Cedarburg, WI 53012

04/22/2003
 Job No: 03.02972
 Sample No: 519886
 Account No: 45150
 Page 6 of 11

JOB DESCRIPTION: 0809004 Tecumseh Products Co.
 PROJECT DESCRIPTION: Soil Analysis
 SAMPLE DESCRIPTION: GP-5A 0-2'
 New Holstein, WI
 Rec'd at 4 degrees C

Date/Time Taken: 04/08/2003 13:20

Date Received: 04/09/2003

Parameter	Results	Units	Reporting		Method	Date		Prep/Run	
			Limit			Analyzed	Analyst	Batch	
Solids, Total	87.2	%	n/a		SW 5035	04/10/2003	klb		4835
Prep, PCB - NONAQUEOUS	Complete					04/11/2003	070		695
PCB'S - 8082 NONAQUEOUS							070		
PCB-1016	<0.29	mg/kg	0.25		SW 8082	04/15/2003	070	695	1005
PCB-1221	<0.29	mg/kg	0.25		SW 8082	04/15/2003	070	695	1005
PCB-1232	<0.29	mg/kg	0.25		SW 8082	04/15/2003	070	695	1005
PCB-1242	<0.29	mg/kg	0.25		SW 8082	04/15/2003	070	695	1005
PCB-1248	<0.29	mg/kg	0.25		SW 8082	04/15/2003	070	695	1005
PCB-1254	<0.29	mg/kg	0.25		SW 8082	04/15/2003	070	695	1005
PCB-1260	<0.29	mg/kg	0.25		SW 8082	04/15/2003	070	695	1005
Surr: TCMX	83	%	n/a		SW 8082	04/15/2003	070	695	1005
Surr: DCB	93	%	n/a		SW 8082	04/15/2003	070	695	1005

ANALYTICAL REPORT

Mr. Dan Pelczar
 KEY ENGINEERING GROUP LTD
 W66 N215 Commerce Court
 Cedarburg, WI 53012

04/22/2003
 Job No: 03.02972
 Sample No: 519887
 Account No: 45150
 Page 7 of 11

JOB DESCRIPTION: 0809004 Tecumseh Products Co.
 PROJECT DESCRIPTION: Soil Analysis
 SAMPLE DESCRIPTION: GP-5A 4-6'
 New Holstein, WI
 Rec'd at 4 degrees C

Date/Time Taken: 04/08/2003 13:30

Date Received: 04/09/2003

Parameter	Results	Units	Reporting		Date		Prep/Run	
			Limit	Method	Analyzed	Analyst	Batch	
Solids, Total	91.6	%	n/a	SW 5035	04/10/2003	kls		4835
Prep, PCB - NONAQUEOUS	Complete				04/11/2003	070		695
PCB'S - 8082 NONAQUEOUS						070		
PCB-1016	<0.28	mg/kg	0.25	SW 8082	04/15/2003	070	695	1005
PCB-1221	<0.28	mg/kg	0.25	SW 8082	04/15/2003	070	695	1005
PCB-1232	<0.28	mg/kg	0.25	SW 8082	04/15/2003	070	695	1005
PCB-1242	<0.28	mg/kg	0.25	SW 8082	04/15/2003	070	695	1005
PCB-1248	<0.28	mg/kg	0.25	SW 8082	04/15/2003	070	695	1005
PCB-1254	<0.28	mg/kg	0.25	SW 8082	04/15/2003	070	695	1005
PCB-1260	<0.28	mg/kg	0.25	SW 8082	04/15/2003	070	695	1005
Surr: TCMX	89	%	n/a	SW 8082	04/15/2003	070	695	1005
Surr: DCB	93	%	n/a	SW 8082	04/15/2003	070	695	1005
PNA Extraction	04/16/2003			SW 3550B	04/16/2003	jts		698
PNA - 8310 NONAQUEOUS	M							
Acenaphthene	<550	ug/kg	50	SW 8310	04/21/2003	clj	698	1543
Acenaphthylene	<930	ug/kg	85	SW 8310	04/21/2003	clj	698	1543
Anthracene	<55	ug/kg	5.0	SW 8310	04/21/2003	clj	698	1543
Benzo(a)anthracene	<55	ug/kg	5.0	SW 8310	04/21/2003	clj	698	1543
Benzo(b)fluoranthene	<55	ug/kg	5.0	SW 8310	04/21/2003	clj	698	1543
Benzo(k)fluoranthene	<55	ug/kg	5.0	SW 8310	04/21/2003	clj	698	1543
Benzo(a)pyrene	<55	ug/kg	5.0	SW 8310	04/21/2003	clj	698	1543
Benzo(ghi)perylene	<55	ug/kg	5.0	SW 8310	04/21/2003	clj	698	1543
Chrysene	69	ug/kg	5.0	SW 8310	04/21/2003	clj	698	1543
Dibenzo(a,h)anthracene	<82	ug/kg	7.5	SW 8310	04/21/2003	clj	698	1543
Fluoranthene	<110	ug/kg	10	SW 8310	04/21/2003	clj	698	1543
Fluorene	<110	ug/kg	10	SW 8310	04/21/2003	clj	698	1543
Indeno(1,2,3-cd)pyrene	<55	ug/kg	5.0	SW 8310	04/21/2003	clj	698	1543
1-Methylnaphthalene	<330	ug/kg	30	SW 8310	04/21/2003	clj	698	1543
2-Methylnaphthalene	<270	ug/kg	25	SW 8310	04/21/2003	clj	698	1543
Naphthalene	<330	ug/kg	30	SW 8310	04/21/2003	clj	698	1543
Phenanthrene	175	ug/kg	5.0	SW 8310	04/21/2003	clj	698	1543
Pyrene	131	ug/kg	5.0	SW 8310	04/21/2003	clj	698	1543
Surr: 2-Fluorobiphenyl	91	%	51-130	SW 8310	04/21/2003	clj	698	1543

ANALYTICAL REPORT

Mr. Dan Pelczar
 KEY ENGINEERING GROUP LTD
 W66 N215 Commerce Court
 Cedarburg, WI 53012

04/22/2003
 Job No: 03.02972
 Sample No: 519888
 Account No: 45150
 Page 8 of 11

JOB DESCRIPTION: 0809004 Tecumseh Products Co.
 PROJECT DESCRIPTION: Soil Analysis
 SAMPLE DESCRIPTION: GP-5A 8-10'
 New Holstein, WI
 Rec'd at 4 degrees C

Date/Time Taken: 04/08/2003 13:35 Date Received: 04/09/2003

Parameter	Results	Units	Reporting		Date		Prep/Run	
			Limit	Method	Analyzed	Analyst	Batch	
Solids, Total	82.7	%	n/a	SW 5035	04/10/2003	kl's		4835
Prep, PCB - NONAQUEOUS	Complete				04/11/2003	070		695
PCB'S - 8082 NONAQUEOUS						070		
PCB-1016	<0.30	mg/kg	0.25	SW 8082	04/15/2003	070	695	1005
PCB-1221	<0.30	mg/kg	0.25	SW 8082	04/15/2003	070	695	1005
PCB-1232	<0.30	mg/kg	0.25	SW 8082	04/15/2003	070	695	1005
PCB-1242	<0.30	mg/kg	0.25	SW 8082	04/15/2003	070	695	1005
PCB-1248	<0.30	mg/kg	0.25	SW 8082	04/15/2003	070	695	1005
PCB-1254	<0.30	mg/kg	0.25	SW 8082	04/15/2003	070	695	1005
PCB-1260	<0.30	mg/kg	0.25	SW 8082	04/15/2003	070	695	1005
Surr: TCMX	76	%	n/a	SW 8082	04/15/2003	070	695	1005
Surr: DCB	84	%	n/a	SW 8082	04/15/2003	070	695	1005
PNA Extraction	04/16/2003			SW 3550B	04/16/2003	jts		698
PNA - 8310 NONAQUEOUS								
Acenaphthene	<60	ug/kg	50	SW 8310	04/18/2003	clj	698	1542
Acenaphthylene	<100	ug/kg	85	SW 8310	04/18/2003	clj	698	1542
Anthracene	<6.0	ug/kg	5.0	SW 8310	04/18/2003	clj	698	1542
Benzo (a) anthracene	<6.0	ug/kg	5.0	SW 8310	04/18/2003	clj	698	1542
Benzo (b) fluoranthene	<6.0	ug/kg	5.0	SW 8310	04/18/2003	clj	698	1542
Benzo (k) fluoranthene	<6.0	ug/kg	5.0	SW 8310	04/18/2003	clj	698	1542
Benzo (a) pyrene	<6.0	ug/kg	5.0	SW 8310	04/18/2003	clj	698	1542
Benzo (ghi) perylene	<6.0	ug/kg	5.0	SW 8310	04/18/2003	clj	698	1542
Chrysene	<6.0	ug/kg	5.0	SW 8310	04/18/2003	clj	698	1542
Dibenzo (a, h) anthracene	<9.1	ug/kg	7.5	SW 8310	04/18/2003	clj	698	1542
Fluoranthene	<12	ug/kg	10	SW 8310	04/18/2003	clj	698	1542
Fluorene	<12	ug/kg	10	SW 8310	04/18/2003	clj	698	1542
Indeno (1, 2, 3-cd) pyrene	<6.0	ug/kg	5.0	SW 8310	04/18/2003	clj	698	1542
1-Methylnaphthalene	<36	ug/kg	30	SW 8310	04/18/2003	clj	698	1542
2-Methylnaphthalene	<30	ug/kg	25	SW 8310	04/18/2003	clj	698	1542
Naphthalene	<36	ug/kg	30	SW 8310	04/18/2003	clj	698	1542
Phenanthrene	<6.0	ug/kg	5.0	SW 8310	04/18/2003	clj	698	1542
Pyrene	<6.0	ug/kg	5.0	SW 8310	04/18/2003	clj	698	1542
Surr: 2-Fluorobiphenyl	101	%	51-130	SW 8310	04/18/2003	clj	698	1542

ANALYTICAL REPORT

Mr. Dan Pelczar
 KEY ENGINEERING GROUP LTD
 W66 N215 Commerce Court
 Cedarburg, WI 53012

04/22/2003
 Job No: 03.02972
 Sample No: 519889
 Account No: 45150
 Page 9 of 11

JOB DESCRIPTION: 0809004 Tecumseh Products Co.
 PROJECT DESCRIPTION: Soil Analysis
 SAMPLE DESCRIPTION: GP-6A 0-2'
 New Holstein, WI
 Rec'd at 4 degrees C

Date/Time Taken: 04/08/2003 13:40

Date Received: 04/09/2003

Parameter	Results	Units	Reporting		Method	Date		Prep/Run	
			Limit			Analyzed	Analyst	Batch	
Solids, Total	86.6	%	n/a		SW 5035	04/10/2003	klb		4835
Prep, PCB - NONAQUEOUS	Complete					04/11/2003	070		695
PCB'S - 8082 NONAQUEOUS	M						070		
PCB-1016	<1.4	mg/kg	0.25		SW 8082	04/18/2003	070	695	1006
PCB-1221	<1.4	mg/kg	0.25		SW 8082	04/18/2003	070	695	1006
PCB-1232	<1.4	mg/kg	0.25		SW 8082	04/18/2003	070	695	1006
PCB-1242	<1.4	mg/kg	0.25		SW 8082	04/18/2003	070	695	1006
PCB-1248	<1.4	mg/kg	0.25		SW 8082	04/18/2003	070	695	1006
PCB-1254	1.5	mg/kg	0.25		SW 8082	04/18/2003	070	695	1006
PCB-1260	<1.4	mg/kg	0.25		SW 8082	04/18/2003	070	695	1006
Surr: TCMX	119	%	n/a		SW 8082	04/18/2003	070	695	1006
Surr: DCB	112	%	n/a		SW 8082	04/18/2003	070	695	1006

ANALYTICAL REPORT

Mr. Dan Pelczar
 KEY ENGINEERING GROUP LTD
 W66 N215 Commerce Court
 Cedarburg, WI 53012

04/22/2003
 Job No: 03.02972
 Sample No: 519890
 Account No: 45150
 Page 10 of 11

JOB DESCRIPTION: 0809004 Tecumseh Products Co.
 PROJECT DESCRIPTION: Soil Analysis
 SAMPLE DESCRIPTION: GP-6A 4-6'
 New Holstein, WI
 Rec'd at 4 degrees C

Date/Time Taken: 04/08/2003 13:45

Date Received: 04/09/2003

Parameter	Results	Units	Reporting		Date		Prep/Run	
			Limit	Method	Analyzed	Analyst	Batch	
Solids, Total	84.7	%	n/a	SW 5035	04/10/2003	klb		4835
Prep, PCB - NONAQUEOUS	Complete				04/11/2003	070		695
PCB'S - 8082 NONAQUEOUS	M					070		
PCB-1016	<0.60	mg/kg	0.25	SW 8082	04/17/2003	070	695	1007
PCB-1221	<0.60	mg/kg	0.25	SW 8082	04/17/2003	070	695	1007
PCB-1232	<0.60	mg/kg	0.25	SW 8082	04/17/2003	070	695	1007
PCB-1242	<0.60	mg/kg	0.25	SW 8082	04/17/2003	070	695	1007
PCB-1248	<0.60	mg/kg	0.25	SW 8082	04/17/2003	070	695	1007
PCB-1254	<0.60	mg/kg	0.25	SW 8082	04/17/2003	070	695	1007
PCB-1260	<0.60	mg/kg	0.25	SW 8082	04/17/2003	070	695	1007
Surr: TCMX	89	%	n/a	SW 8082	04/17/2003	070	695	1007
Surr: DCB	99	%	n/a	SW 8082	04/17/2003	070	695	1007
PNA Extraction	04/16/2003			SW 3550B	04/16/2003	jts		698
PNA - 8310 NONAQUEOUS								
Acenaphthene	<59	ug/kg	50	SW 8310	04/21/2003	clj	698	1543
Acenaphthylene	<100	ug/kg	85	SW 8310	04/21/2003	clj	698	1543
Anthracene	<5.9	ug/kg	5.0	SW 8310	04/21/2003	clj	698	1543
Benzo(a)anthracene	86	ug/kg	5.0	SW 8310	04/21/2003	clj	698	1543
Benzo(b)fluoranthene	12	ug/kg	5.0	SW 8310	04/21/2003	clj	698	1543
Benzo(k)fluoranthene	26	ug/kg	5.0	SW 8310	04/21/2003	clj	698	1543
Benzo(a)pyrene	60	ug/kg	5.0	SW 8310	04/21/2003	clj	698	1543
Benzo(ghi)perylene	89	ug/kg	5.0	SW 8310	04/21/2003	clj	698	1543
Chrysene	34	ug/kg	5.0	SW 8310	04/21/2003	clj	698	1543
Dibenzo(a,h)anthracene	<8.9	ug/kg	7.5	SW 8310	04/21/2003	clj	698	1543
Fluoranthene	142	ug/kg	10	SW 8310	04/21/2003	clj	698	1543
Fluorene	<12	ug/kg	10	SW 8310	04/21/2003	clj	698	1543
Indeno(1,2,3-cd)pyrene	30	ug/kg	5.0	SW 8310	04/21/2003	clj	698	1543
1-Methylnaphthalene	<35	ug/kg	30	SW 8310	04/21/2003	clj	698	1543
2-Methylnaphthalene	<30	ug/kg	25	SW 8310	04/21/2003	clj	698	1543
Naphthalene	<35	ug/kg	30	SW 8310	04/21/2003	clj	698	1543
Phenanthrene	57	ug/kg	5.0	SW 8310	04/21/2003	clj	698	1543
Pyrene	236	ug/kg	5.0	SW 8310	04/21/2003	clj	698	1543
Surr: 2-Fluorobiphenyl	86	%	51-130	SW 8310	04/21/2003	clj	698	1543

ANALYTICAL REPORT

Mr. Dan Pelczar
 KEY ENGINEERING GROUP LTD
 W66 N215 Commerce Court
 Cedarburg, WI 53012

04/22/2003
 Job No: 03.02972
 Sample No: 519891
 Account No: 45150
 Page 11 of 11

JOB DESCRIPTION: 0809004 Tecumseh Products Co.
 PROJECT DESCRIPTION: Soil Analysis
 SAMPLE DESCRIPTION: GP-6A 8-10'
 New Holstein, WI
 Rec'd at 4 degrees C

Date/Time Taken: 04/08/2003 13:55

Date Received: 04/09/2003

Parameter	Results	Units	Reporting		Date		Prep/Run	
			Limit	Method	Analyzed	Analyst	Batch	
Solids, Total	78.0	%	n/a	SW 5035	04/10/2003	klb		4835
Prep, PCB - NONAQUEOUS	Complete				04/11/2003	070		695
PCB'S - 8082 NONAQUEOUS						070		
PCB-1016	<0.32	mg/kg	0.25	SW 8082	04/15/2003	070	695	1005
PCB-1221	<0.32	mg/kg	0.25	SW 8082	04/15/2003	070	695	1005
PCB-1232	<0.32	mg/kg	0.25	SW 8082	04/15/2003	070	695	1005
PCB-1242	<0.32	mg/kg	0.25	SW 8082	04/15/2003	070	695	1005
PCB-1248	<0.32	mg/kg	0.25	SW 8082	04/15/2003	070	695	1005
PCB-1254	<0.32	mg/kg	0.25	SW 8082	04/15/2003	070	695	1005
PCB-1260	<0.32	mg/kg	0.25	SW 8082	04/15/2003	070	695	1005
Surr: TCMX	55	%	n/a	SW 8082	04/15/2003	070	695	1005
Surr: DCB	74	%	n/a	SW 8082	04/15/2003	070	695	1005
PNA Extraction	04/16/2003			SW 3550B	04/16/2003	jts		698
PNA - 8310 NONAQUEOUS								
Acenaphthene	<64	ug/kg	50	SW 8310	04/18/2003	clj	698	1542
Acenaphthylene	<110	ug/kg	85	SW 8310	04/18/2003	clj	698	1542
Anthracene	<6.4	ug/kg	5.0	SW 8310	04/18/2003	clj	698	1542
Benzo(a)anthracene	14	ug/kg	5.0	SW 8310	04/18/2003	clj	698	1542
Benzo(b)fluoranthene	<6.4	ug/kg	5.0	SW 8310	04/18/2003	clj	698	1542
Benzo(k)fluoranthene	<6.4	ug/kg	5.0	SW 8310	04/18/2003	clj	698	1542
Benzo(a)pyrene	<6.4	ug/kg	5.0	SW 8310	04/18/2003	clj	698	1542
Benzo(ghi)perylene	<6.4	ug/kg	5.0	SW 8310	04/18/2003	clj	698	1542
Chrysene	14	ug/kg	5.0	SW 8310	04/18/2003	clj	698	1542
Dibenzo(a,h)anthracene	<9.6	ug/kg	7.5	SW 8310	04/18/2003	clj	698	1542
Fluoranthene	31	ug/kg	10	SW 8310	04/18/2003	clj	698	1542
Fluorene	<13	ug/kg	10	SW 8310	04/18/2003	clj	698	1542
Indeno(1,2,3-cd)pyrene	<6.4	ug/kg	5.0	SW 8310	04/18/2003	clj	698	1542
1-Methylnaphthalene	<38	ug/kg	30	SW 8310	04/18/2003	clj	698	1542
2-Methylnaphthalene	<32	ug/kg	25	SW 8310	04/18/2003	clj	698	1542
Naphthalene	<38	ug/kg	30	SW 8310	04/18/2003	clj	698	1542
Phenanthrene	19	ug/kg	5.0	SW 8310	04/18/2003	clj	698	1542
Pyrene	36	ug/kg	5.0	SW 8310	04/18/2003	clj	698	1542
Surr: 2-Fluorobiphenyl	102	%	51-130	SW 8310	04/18/2003	clj	698	1542

Client Name: KEY ENGINEERING Client #: WT45150

Address: W66 N215 COMMERCE CT.

City/State/Zip Code: CEDARBURG WI 53012

Project Manager: DAN PELCZAR

Telephone Number: (262) 375-4750 Fax: 375-9680

Sampler Name: (Print Name) MIKE MANTZ

Sampler Signature: *[Handwritten Signature]*

Project Name: TELCUMSEH PRODUCTS CO.

Project #: 0809004

Site/Location ID: NEW HOLSTEIN State: WI

Report To: DAN PELCZAR

Invoice To: KEY

Quote #: 03050 PO#: _____

TAT <input checked="" type="checkbox"/> Standard <input type="checkbox"/> Rush (surcharges may apply)	Date Needed:	Fax Results: <input checked="" type="checkbox"/> N	Date Sampled	Time Sampled	G = Grab, C = Composite	Field Filtered	Matrix SL - Sludge DW - Drinking Water GW - Groundwater S - Soil/Solid WW - Wastewater Specify Other	Preservation & # of Containers								Analyze For:						QC Deliverables	REMARKS				
								HNO ₃	HCl	NaOH	H ₂ SO ₄	Methanol	None	Other (Specify)											None Level 2 (Batch QC) Level 3 Level 4 Other: _____		
			4/8/03	2:10	G		Soil								2	X			X								
				2:20											3	X	X		X								
				2:30											3	X	X		X								
				1:20											2	X			X								
				1:30											3	X	X		X								
				1:35											3	X	X		X								
				1:40											2	X			X								
				1:45											3	X	X		X								
			4/8/03	1:55	V										3	X	X		X								

Special Instructions: _____

LABORATORY COMMENTS:

Init Lab Temp: 40
Rec Lab Temp: 40

Relinquished By: *[Signature]* Date: 4/9 Time: _____ Received By: *[Signature]* Date: 4/9 Time: 9:45

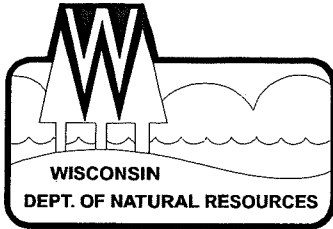
Relinquished By: *[Signature]* Date: 4/9 Time: 11:15 Received By: _____ Date: _____ Time: _____

Relinquished By: _____ Date: _____ Time: _____ Received By: *[Signature]* Date: 4/9/03 Time: 15:30

Custody Seals: Y N N/A
Bottles Supplied by Test America: Y N (N/A circled)

Method of Shipment: TA

ra 4/10/03



State of Wisconsin \ DEPARTMENT OF NATURAL RESOURCES

Tommy G. Thompson, Governor
George E. Meyer, Secretary
Ronald W. Kazmierczak, Regional Director

Northeast Region Headquarters
1125 N. Military Ave., P.O. Box 10448
Green Bay, Wisconsin 54307-0448
Telephone 920-492-5800
FAX 920-492-5913
TDD 920-492-5912

May 31, 2000

Mr. Kerry DeKeyser
Tecumseh Products
1604 Michigan Avenue
New Holstein, Wisconsin 53061

Subject: Case Closure Review, Tecumseh Products, Contaminated Fill Area at MW-1,
1604 Michigan Avenue, New Holstein, Wisconsin **BRRTS #: 02-08-193776**

Dear Mr. DeKeyser:

I have completed my review of the above case that was submitted for closure and have noted some information to be missing. Upon receipt of this information, the case closure review process will continue.

In the Department's letter dated 10/12/98 that was addressed to yourself (copy attached), the Department required analysis for PAHs and PCBs in addition to the analysis for VOCs and RCRA metals. The PCB and PAH analyses do not appear to have been done. For the Department to consider this case for closure, PCB and PAH analyses of the soil will be needed in the area around monitoring well MW-1.

The Department will require a minimum of three soil borings in the fill around MW-1 (by GP-4, GP-5 and GP-6) with analysis for PCBs and PAHs. Samples for analysis should be collected from within the fill material and the native material immediately below the fill material. In addition, due to the thickness of the fill material, two soil samples from **within the fill per boring** should be analyzed for PCBs (i.e. a total of three PCB analyses per boring).

Once this data has been submitted to the Department, the closure review of this case will continue. Thank you for your cooperation in this matter. If you have any questions, please contact me in Green Bay at 920-492-5861.

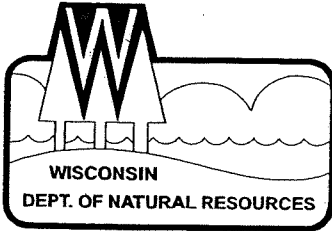
Yours truly,

Alan Thomas Nass, P.G.
Hydrogeologist

Enclosure

Cc: Curtis Hoffart, KEY Engineering Group, W66 N215 Commerce Court, Cedarburg,
Wisconsin 53012
Dale Ziege - RR/3

File



State of Wisconsin \ DEPARTMENT OF NATURAL RESOURCES

Tommy G. Thompson, Governor
George E. Meyer, Secretary
William R. Selbig, Regional Director

Northeast Region Headquarters
1125 N. Military Ave., P.O. Box 10448
Green Bay, Wisconsin 54307-0448
Telephone 920-492-5800
FAX 920-492-5913
TDD 920-492-5912

October 12, 1998

Mr. Kerry DeKeyser
Tecumseh Products
1604 Michigan Avenue
New Holstein, WI 53061

Subject: Acknowledgement of Receipt/Site Investigation Work Plan, Tecumseh Products - East Section Contaminated Fill Area, 1604 Michigan Avenue, New Holstein, Wisconsin, Calumet County, WDNR BRRTS ID# 02-08-193776

Dear Mr. DeKeyser:

I have received and reviewed the above-referenced submittal from your environmental consultant, Key Engineering. However, staffing and workload levels do not allow me to provide you with detailed review and oversight at this time.

Therefore, this letter serves as your "**Notice to Proceed**" with investigation and remediation of the site. All actions must comply with all applicable statutes, program guidance, standards and Administrative Rules. This letter is not an approval of your work plans and reports. They will be filed as public records until the Department is able to review them, or until site remediation is completed.

In addition to the work proposed by your consultant and based on my discussions with them today, you should include the following:

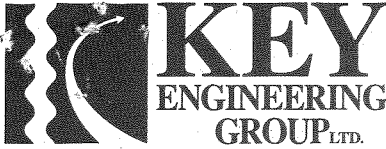
1. Drill at least two additional soil borings, one located north of SB-6/MW-1 and one located west of SB-6/MW-1. All borings should be drilled within a reasonable distance to the contaminated fill found at SB-6/MW-1. These would be used in addition to the ones proposed by your consultant to identify whether fill material impacts detected at SB-6/MW-1 have impacted native soils beyond the known area of fill by defining the limits of fill.
2. Because of the unknown waste types present, samples should also be analyzed for PAHs and PCBs, in addition to VOCs and the eight RCRA metals.
3. Your consultant has indicated today that a starting date for the investigative field work has not been identified yet. We would like to observe and potentially collect samples during the drilling. Please notify us at least 5 working days prior to drilling activities.

Your consultant must follow the Wisconsin Administrative Code NR 700 series. It is very important that your consultant understands and meets the minimum standards established by the Department; however, you, as the responsible party, are ultimately responsible for the



Quality Natural Resources Management
Through Excellent Customer Service





ENVIRONMENTAL • CIVIL/GEOTECH • COMPLIANCE

W66 N215 Commerce Court
Cedarburg, Wisconsin 53012
(262) 375-4750
(800) 645-7365
Fax (262) 375-9680

March 14, 2000

Mr. Alan Nass
Wisconsin Department of Natural Resources
Northeast Region
1125 North Military Avenue
Post Office Box 10448
Green Bay, Wisconsin 53407-0448

Reference: **Case Closure Request/
Limited Site Investigation Report
Tecumseh-East Section Fill Area
1604 Michigan Avenue
New Holstein, Wisconsin
WDNR BRRTS #02-08-193776**

RECEIVED

MAR 15 2000

LMD SOLID WASTE

KEY ENGINEERING GROUP, LTD.
File No. 0809004

Dear Mr. Nass:

The purpose of this letter is to provide the Wisconsin Department of Natural Resources (WDNR) with the results of the limited site investigation (LSI) and request case closure for the above referenced site. This letter was prepared by Key Engineering Group, Ltd. (KEY) on behalf of Tecumseh Products Company (Tecumseh).

Purpose and Objectives

Approximately 8 feet of fill material, which included paint chips, metal shavings and ash, was encountered during the gasoline leaking underground storage tank (LUST) site investigation in the East Section (WDNR LUST ID# 03-08-01070). The fill material was encountered at soil boring SB-6 (MW-1), located near the northeast corner of the Tecumseh facility. Concentrations of benzene, ethylbenzene, xylenes and trimethylbenzenes were detected in a sample of the fill material collected from 4 to 6 feet below ground surface (bgs). The benzene concentration exceeded the NR 720 generic residual contaminant level (GRCL) based on the protection of groundwater.

The WDNR notified Tecumseh in a July 29, 1998 letter to submit a work plan for the investigation of the fill material impacts since they appeared to be unrelated to the East Section LUST impacts. Additionally, the WDNR notified Tecumseh in an August 4, 1998 letter that management of this area of contamination in accordance with NR 700 through NR 728 is required.

The objectives of the LSI were to identify whether fill material impacts detected at SB-6/MW-1 have impacted native soils beyond the area of fill and evaluate whether remedial action associated with the fill material impacts is warranted. Additionally, LSI data was also used to evaluate whether the fill material impacts at SB-6/MW-1 are representative of an isolated area or are indicative of a widespread area of contaminated fill material.

Background Information

Significant soil and groundwater sample data has been collected in the vicinity of the Fill Area in association with the East Section LUST case. LUST case data was most previously documented in KEY's January 27, 2000 *Case Closure Request*.

LUST case information pertinent to the Fill Area is summarized as follows:

- The groundwater flow direction in the East Section is northerly to northwesterly.
- MW-1 was the only monitoring well installed within the area of fill material (other than areas of exclusively soil fill).
- The average depth to groundwater at MW-1 is approximately 12 feet bgs; soil contamination within fill material is not present at depths greater than 6 to 7 feet bgs at SB-6/MW-1.
- No petroleum volatile organic compounds (VOCs) (most significant contaminants detected in fill material concentrations) have historically been detected in groundwater within or downgradient of the Fill Area (MW-1 and MW-12, respectively).

Investigation Procedures

The LSI was conducted in general accordance with KEY's October 6, 1998 *Limited Site Investigation Work Plan* and October 12 and 15, 1998 letters from the WDNR. The LSI consisted of advancing three soil probes to the north, west and south of SB-6/MW-1 (GP-4, GP-5 and GP-6). One soil probe was also conducted east of SB-6/MW-1 in conjunction with LUST investigation activities conducted concurrently with the LSI (GP-3). The soil probes were advanced with a truck-mounted Geoprobe® unit operated by Briohn Environmental Contractors, Inc. on September 29, 1999. The soil probe locations are depicted on Figure 1.

Each soil probe was advanced to 10 or 12 feet bgs. Soil samples were collected at 2-foot intervals and were classified in the field in accordance with the Unified Soil Classification System. Each soil sample was also field screened for the presence of VOCs with a photoionization detector (PID). Two soil samples collected from GP-4, GP-5 and GP-6 were submitted to Great Lakes Analytical laboratory for analysis of VOCs and Resource Conservation and Recovery Act metals. One soil sample collected from GP-3 (LUST soil probe) was submitted for gasoline range organics and petroleum volatile organic compounds. Soil boring and sampling information, soil sample classification data and field screening results are documented on soil boring logs included in Attachment 1. Borehole abandonment forms are also included in Attachment 1.

Results

Approximately 8 to 9 feet of fill material consisting of silty clay or clayey silt with glass and wood fragments was encountered at GP-4, GP-5 and GP-6. The fill material was underlain by sandy clay, sandy silt or silty clay. Fill material was not encountered at GP-3. The depth and type of fill material was generally consistent with the fill documented by Dames & Moore at SB-6/MW-1. The depth to groundwater in MW-1 at the time of the LSI was approximately 12 feet bgs.

Soil sample field screening results generally indicated PID readings above background for soil samples collected from the fill material at GP-4, GP-5 and GP-6. Lower PID readings were measured in underlying native soils. No significant PID readings were measured at GP-3. Soil sample field screening results are included on the attached boring logs.

The soil sample analytical results are summarized in Table 1 and on Figure 2 and the Great Lakes Analytical laboratory report and chain of custody documentation are included in Attachment 2. The soil sample analytical results indicated that several VOCs were detected in soil samples collected primarily from fill material at depths of 4 to 6 bgs or 6 to 8 bgs. The VOCs were generally petroleum related with the exception of 1,2-dichlorobenzene and 2,2-dichloropropane, which were detected at GP-4 and/or GP-5. Naphthalene and xylene were detected at concentration exceeding NR 720 or WDNR interim guidance GRCLs for the protection of groundwater in soil samples collected from fill material at GP-4 and GP-5. No NR 720 GRCLs or United States Environmental Protection Agency preliminary remediation goals or soil screening levels were exceeded in soil samples collected at GP-6 or GP-3 or in native soils underlying fill material. Benzene was not detected in any of the soil samples.

Several metals were detected at low (background) concentrations in soil and fill material samples.

No!

No PCBs on PAHs!

Mr. Alan Nass
March 14, 2000
Page 3

Conclusions

Based on the LUST case and LSI results, further investigation and remedial action associated with the on-site fill material is not considered warranted. This conclusion is supported by the following rationale:

- Residual fill material petroleum VOC impacts are confined to the layer of fill material and have not significantly impacted underlying native soils.
- Residual contaminant concentrations do present a direct contact risk. *v not? ?*
- Based on the lack of groundwater impacts within and down gradient of the Fill Area, residual benzene, naphthalene and xylene concentrations in soil represent a localized area within the Fill Area, and therefore, do not represent a significant source of future groundwater impacts.
- No land use changes are projected at the site.

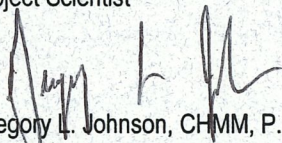
Based on the LUST case/LSI data and this rationale, case closure is appropriate.

Sincerely,

KEY ENGINEERING GROUP, LTD.



Curtis M. Hoffart, CHMM
Project Scientist



Gregory L. Johnson, CHMM, P.G., P.E.
Manager of Technical Services

CMH/mas

Enclosures:	Table 1	Summary of Soil Sample Analytical Results
	Figure 1	Site Layout
	Figure 2	Summary of Soil and Groundwater Sample Analytical Results
	Attachment 1	Soil Boring Logs/Abandonment Forms
	Attachment 2	Laboratory Report and Chain of Custody Documentation

cc: Mr. Kerry DeKeyser, Tecumseh Products Company

TABLE 1

SUMMARY OF SOIL SAMPLE ANALYTICAL RESULTS

TECUMSEH - EAST SECTION FILL AREA
1604 Michigan Avenue
New Holstein, Wisconsin

	GP-3	GP-4		GP-5		GP-6		SB-6 / MW-1 ⁴	NR 720 GRCL	USEPA	
		6-8	10-12	4-6	10-12	4-6	10-12			4-6	PRG
Depth (feet)	6-8	6-8	10-12	4-6	10-12	4-6	10-12	4-6			
PID (i.u.)	3	67	3	140	4	182	4	1,011			
Detected VOCs (µg/kg)											
Benzene	<25	<25	<25	<25	<25	<25	<25	1,500	5.5	1,400	30
n-Butylbenzene	---	1,300	120	2,200	<25	820	<25	---	---	5.5 E 05	---
sec-Butylbenzene	---	<25	<25	1,700	<25	300	<25	---	---	4.1 E 05	---
tert-Butylbenzene	---	620	<25	450	<25	<25	<25	---	---	4.9 E 05	---
1,2-Dichlorobenzene	---	<25	<25	360	<25	<25	<25	---	---	3.7 E 05	1.7 E 04
2,2-Dichloropropane	---	53	<25	<25	<25	<25	<25	---	---	---	---
Di-isopropyl ether	---	<25	<25	<25	<25	200	<25	---	---	---	---
Ethylbenzene	<25	210	<25	2,200	34	440	<25	1,600	2,900	2.3 E 05	1.3 E 04
Isopropylbenzene	---	430	<25	2,200	<25	210	<25	---	---	5.2 E 05	---
Naphthalene	---	410	110	2,500	<25	190	<25	---	400 ¹	1.9 E 05	8.4 E 04
n-Propylbenzene	---	360	<25	1,200	<25	240	<25	---	---	5.5 E 05	---
Toluene	<25	200	<25	250	<25	90	<25	---	1,500	5.2 E 05	1.2 E 04
1,2,4-Trimethylbenzene	<25	750	95	2,000	38	870	<25	1,800	---	1.7 E 05	---
1,3,5-Trimethylbenzene	140	450	<25	1,200	<25	320	<25	1,100	---	7.0 E 04	---
Xylene	<25	750	<25	9,700	170	970	<25	1,000	4,100	2.8 E 05 ²	1.9 E 05 ²
Detected Metals (mg/kg) ⁵											
Barium	---	64	<28	71	<28	43	35	---	---	1.0 E 05	1,600
Chromium	---	14	3.9	13	4.8	12	8.8	---	200 ³	4,500	38
Lead	---	13	<1.1	35	<1.1	14	6.7	---	500 ³	1,000	---
Mercury	---	0.083	<0.045	0.13	<0.045	<0.049	<0.044	---	---	560	---
Selenium	---	1.0	0.63	1.6	<0.56	1.8	<0.56	---	---	10,000	5

Notes:

Bold concentration exceeds applicable GRCL or SSL based on the protection of groundwater

1 - WDNR interim guidance

2 - o-xylene referenced

3 - industrial direct contact GRCL

4 - soil boring by Dames & Moore (10/91)

5 - Arsenic, Cadmium and Silver were analyzed but not detected

--- not analyzed or not applicable

GRCL - NR 720 generic residual contaminant level based on the protection of groundwater

mg/kg - milligrams per kilogram

PID - photoionization detector

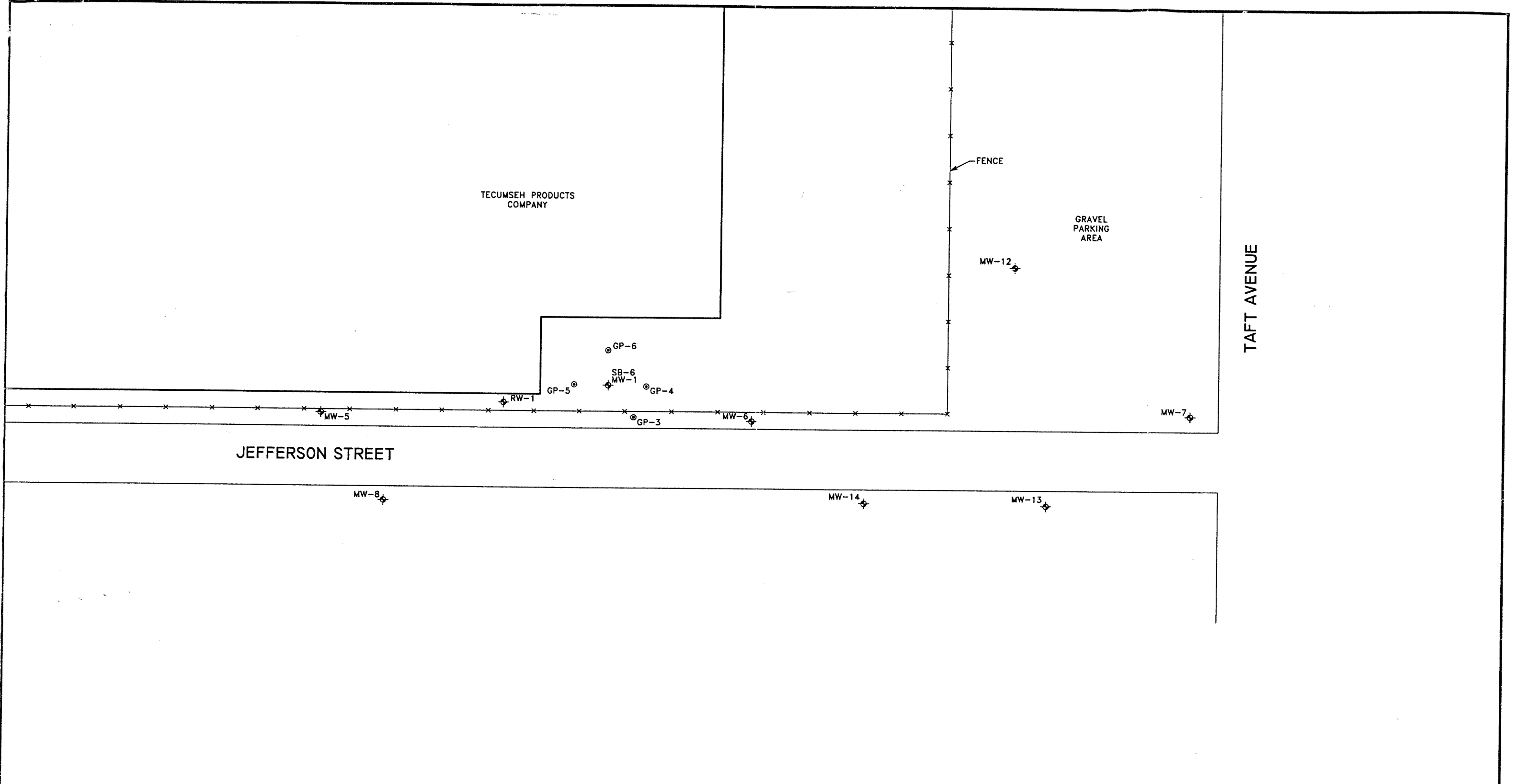
PRG - USEPA Region 9 industrial direct contact Preliminary Remediation Goal

SSL - USEPA Region 9 Soil Screening Level for the protection of groundwater (with dilution)

µg/kg - micrograms per kilogram

USEPA - United States Environmental Protection Agency

VOCs - volatile organic compounds



JEFFERSON STREET

TAFT AVENUE

TECUMSEH PRODUCTS COMPANY

GRAVEL PARKING AREA

FENCE

LEGEND
 ◆ EXISTING MONITORING WELL LOCATION
 ● SOIL PROBE LOCATION

0 30 60
 SCALE: 1"=80'



© 2000 Key Engineering Group Ltd.

DRN. BY:	J.J.J.	DATE:	02/09/00
DSN. BY:	C.M.H.	FILE NO.:	0809004
CHK. BY:	C.M.H.	DWG. NO.:	08090042
REV. BY:	G.L.J.	SHEET NO.:	1

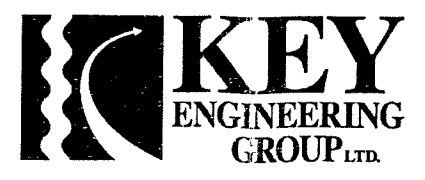
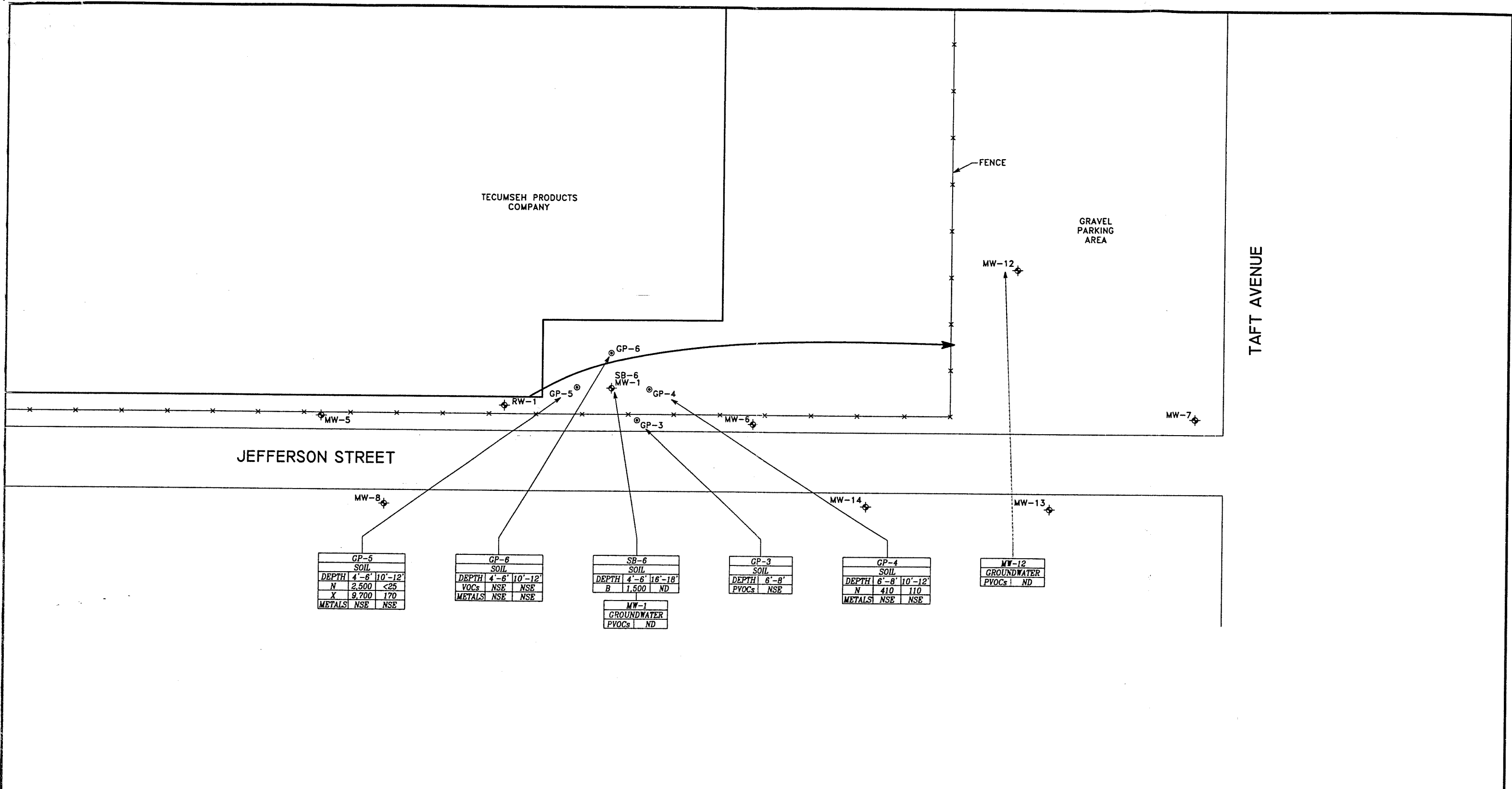


FIGURE 1
 SITE LAYOUT

EAST SECTION FILL AREA
 TECUMSEH PRODUCTS COMPANY
 1604 MICHIGAN AVENUE
 NEW HOLSTEIN, WISCONSIN



LEGEND

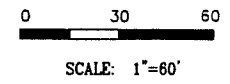
◆ EXISTING MONITORING WELL LOCATION

⊙ SOIL PROBE LOCATION

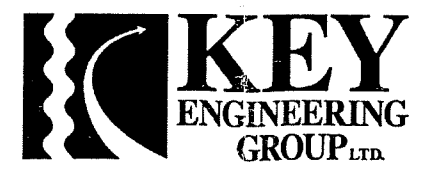
→ GROUNDWATER FLOW DIRECTION

NOTES

VOCs: VOLATILE ORGANIC COMPOUNDS
 PVOCs: PETROLEUM VOLATILE ORGANIC COMPOUNDS
 B: BENZENE, ug/kg
 X: TOTAL XYLENES, ug/kg
 N: NAPHTHALENE, ug/kg
 ug/kg: MICROGRAMS PER KILOGRAM
 < : LESS THAN
 ND: NOT DETECTED
 NSE: NO STANDARD EXCEEDED



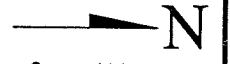
DRN. BY:	J.J.J.	DATE:	02/09/00
DSN. BY:	C.M.H.	FILE NO.:	0809004
CHK. BY:	C.M.H.	DWG. NO.:	08090043
REV. BY:	G.L.J.	SHEET NO.:	2



© 2000 Key Engineering Group Ltd.

FIGURE 2
 SUMMARY OF SOIL AND
 GROUNDWATER SAMPLE
 ANALYTICAL RESULTS





EAST SECTION FILL AREA
 TECUMSEH PRODUCTS COMPANY
 1604 MICHIGAN AVENUE
 NEW HOLSTEIN, WISCONSIN



ATTACHMENT 1

Route To: Watershed/Wastewater Waste Management
 Remediation/Redevelopment Other

Facility/Project Name Tecumseh - East Section		License/Permit/Monitoring Number -		Boring Number GP-3	
Boring Drilled By: Name of crew chief (first, last) and Firm Dan Briohn Environmental Drilling Services, Inc.		Date Drilling Started 9/29/1999		Date Drilling Completed 9/29/1999	
WI Unique Well No.		DNR Well ID No.		Common Well Name	
Final Static Water Level Feet MSL		Surface Elevation Feet MSL		Borehole Diameter 2.0 inches	
Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/>) or Boring Location <input checked="" type="checkbox"/> State Plane N, E S/C/N				Local Grid Location <input type="checkbox"/> N <input type="checkbox"/> E <input type="checkbox"/> S <input type="checkbox"/> W	
1/4 of SE 1/4 of Section 10, T 17 N, R 20 E		Lat _____ ° _____ ' _____ "		Long _____ ° _____ ' _____ "	
Facility ID		County Calumet		County Code 8	
				Civil Town/City/ or Village New Holstein	

Sample Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties						RQD/ Comments
									Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200		
1	24 16		1	Grass				2							
2	24 18		2	Dark brown, silty CLAY, with some gravel, moist	CL			2							
3	24 14		4	Light brown, silty CLAY, with some sand and gravel, moist	CL			<1							
4	24 12		6	Light brown, sandy clay, with some gravel, moist to wet				3 *							
5	24 6		8	- wet	CL			3							
				End of boring at 10 feet. * Sample submitted for laboratory analysis.											

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature *Christopher J...* Firm **KEY ENGINEERING GROUP, LTD** Tel: (262) 375-4750
W66 N215 COMMERCE CT CEDARBURG WI 53012 Fax: (262) 375-9680

Route To: Watershed/Wastewater Waste Management
Remediation/Redevelopment Other

Facility/Project Name Tecumseh - East Section Fill Area		License/Permit/Monitoring Number -		Boring Number GP-4	
Boring Drilled By: Name of crew chief (first, last) and Firm Dan Briohn Environmental Contractors, Inc.		Date Drilling Started 9/29/1999		Date Drilling Completed 9/29/1999	
Drilling Method Geoprobe		Final Static Water Level Feet MSL		Surface Elevation Feet MSL	
Borehole Diameter 2.0 inches		Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/>) or Boring Location <input checked="" type="checkbox"/> State Plane N, E S/C/N		Local Grid Location <input type="checkbox"/> N <input type="checkbox"/> E <input type="checkbox"/> S <input type="checkbox"/> W	
1/4 of SE 1/4 of Section 10, T 17 N, R 20 E		County Calumet		County Code 8	
Facility ID		Civil Town/City/ or Village New Holstein			

Sample Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties					RQD/ Comments
									Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	
1	24 24		1	Grass and Topsoil				6						
			1	Dark brown, silty CLAY, with some gravel, moist (fill)	CL									
2	24 12		2	Gray, clayey SILT, with some sand and gravel, moist (fill)	ML			51						
			3											
3	24 12		4	Black, silty CLAY, with some gravel and glass fragments, moist (fill)				31						
			5											
4	24 18		6		CL			67 *						
			7											
5	24 18		8	Light brown, sandy CLAY, with some gravel, moist	CL			20						
			9											
6	24 14		10	Light brown, silty SAND, with some gravel, wet	SM			3 *						
			11											
			12	End of boring at 12 feet. * Sample submitted for laboratory analysis										

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature 	Firm KEY ENGINEERING GROUP, LTD W66 N215 COMMERCE CT CEDARBURG WI 53012	Tel: (262) 375-4750 Fax: (262) 375-9680
---------------	--	--

Route To: Watershed/Wastewater Waste Management
Remediation/Redevelopment Other

Facility/Project Name Tecumseh - East Section Fill Area		License/Permit/Monitoring Number -		Boring Number GP-5	
Boring Drilled By: Name of crew chief (first, last) and Firm Dan Briohn Environmental Contractors, Inc.		Date Drilling Started 9/29/1999		Date Drilling Completed 9/29/1999	
Drilling Method Geoprobe		WI Unique Well No.		DNR Well ID No.	
Common Well Name		Final Static Water Level Feet MSL		Surface Elevation Feet MSL	
Borehole Diameter 2.0 inches		Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/>) or Boring Location <input checked="" type="checkbox"/>		Local Grid Location	
State Plane N, E S/C/N		Lat _____ ' _____ "		<input type="checkbox"/> N <input type="checkbox"/> E	
1/4 of SE 1/4 of Section 10, T 17 N, R 20 E		Long _____ ' _____ "		<input type="checkbox"/> S <input type="checkbox"/> W	
Facility ID		County Calumet		County Code 8	
				Civil Town/City/ or Village New Holstein	

Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties						RQD/ Comments
									Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200		
1	24 24		1	Grass and Topsoil				1							
				Light brown, silty SAND, with some gravel, moist (fill)	SM										
2	24 18		2 3	Dark brown, silty CLAY, with some gravel, moist, poorly graded sand seam (fill)	CL			2							
3	24 18		4 5	Dark brown, silty CLAY, with some gravel, moist (fill)				140 *							
4	24 18		6 7		CL			24							
5	24 24		8 9					8							
6	24		10 11 12	Light brown, silty SAND, with some gravel, moist to wet	SM			4 *							
				End of boring at 12 feet. * Sample submitted for laboratory analysis											

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature <i>Christopher B.</i>	Firm KEY ENGINEERING GROUP, LTD W66 N215 COMMERCE CT CEDARBURG WI 53012	Tel: (262) 375-4750 Fax: (262) 375-9680
------------------------------------	--	--

Route To: Watershed/Wastewater Waste Management
Remediation/Redevelopment Other

Facility/Project Name Tecumseh - East Section Fill Area		License/Permit/Monitoring Number -		Boring Number GP-6	
Boring Drilled By: Name of crew chief (first, last) and Firm Dan Briohn Environmental Contractors, Inc.		Date Drilling Started 9/29/1999		Date Drilling Completed 9/29/1999	
WI Unique Well No.		DNR Well ID No.		Common Well Name	
Final Static Water Level Feet MSL		Surface Elevation Feet MSL		Borehole Diameter 2.0 inches	
Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/>) or Boring Location <input checked="" type="checkbox"/> State Plane 1/4 of SE 1/4 of Section 10, T 17 N, R 20 E		Lat _____° _____' _____" Long _____° _____' _____"		Local Grid Location <input type="checkbox"/> N <input type="checkbox"/> E <input type="checkbox"/> S <input type="checkbox"/> W	
Facility ID		County Calumet		County Code 8	
				Civil Town/City/ or Village New Holstein	

Sample Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties						RQD/Comments
									Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200		
1	24 24		1	Well graded gravel	GW			<1							
2	24 12		2	Light brown, silty CLAY, with some sand and gravel, moist (fill)	CL			4							
3	24 18		4	Black, silty CLAY, with some glass and wood fragments, and sand and gravel, moist (fill)	CL			182 *							
4	24 18		6		CL			32							
5	24 12		8	Light brown, silty CLAY, with some gravel, moist	CL			26							
6	24 18		10	- wet	CL			4 *							
			12	End of boring at 12 feet. * Sample submitted for laboratory analysis											

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature *Christopher K...* Firm **KEY ENGINEERING GROUP, LTD** Tel: (262) 375-4750
W66 N215 COMMERCE CT CEDARBURG WI 53012 Fax: (262) 375-9680

This form is authorized by Chapters 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats. Completion of this form is mandatory. Failure to file this form may result in forfeiture of between \$10 and \$25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. NOTE: See instructions for more information, including where the completed form should be sent.

All abandonment work shall be performed in accordance with the provisions of Chapters NR 811, NR 812 or 141, Wis. Admin. Code, whichever is applicable.

(1) GENERAL INFORMATION		(2) FACILITY NAME <u>Tecumseh - East Section</u>	
Well/Drillhole/Borehole Location	County <u>Calumet</u>	Original Well Owner (If Known) <u>Tecumseh Products Company</u>	
____ 1/4 of <u>SE</u> 1/4 of Sec. <u>10</u> ; T. <u>17</u> N.; R. <u>20</u> <input checked="" type="checkbox"/> E <input type="checkbox"/> W (If Applicable)		Present Well Owner	
Gov't Lot	Grid Number	Street or Route <u>1604 Michigan Avenue</u>	
Grid Location	ft. <input type="checkbox"/> N. <input type="checkbox"/> S., ft. <input type="checkbox"/> E. <input type="checkbox"/> W.	City, State, Zip Code <u>New Holstein, WI</u>	
Civil Town Name	Facility Well No. and/or Name (If Applicable)	WI Unique Well No.	
Street Address of Well <u>1604 Michigan Avenue</u>	Reason For Abandonment <u>Investigative Boring</u>	<u>GP-3</u>	
City, Village <u>New Holstein</u>	Date of Abandonment <u>9/29/99</u>		

WELL/DRILLHOLE/BOREHOLE INFORMATION

(3) Original Well/Drillhole/Borehole Construction Completed On (Date) <u>9/29/99</u>		(4) Depth to Water (Feet) _____	
<input type="checkbox"/> Monitoring Well <input type="checkbox"/> Water Well <input type="checkbox"/> Drillhole <input checked="" type="checkbox"/> Borehole	Construction Report Available? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Pump & Piping Removed? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Not Applicable Liner(s) Removed? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Not Applicable Screen Removed? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Not Applicable Casing Left in Place? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If No, Explain <u>Not Installed</u>	
Construction Type: <input type="checkbox"/> Drilled <input type="checkbox"/> Driven (Sandpoint) <input type="checkbox"/> Dug <input checked="" type="checkbox"/> Other (Specify) <u>Geoprobe</u>	Formation Type: <input checked="" type="checkbox"/> Unconsolidated Formation <input type="checkbox"/> Bedrock	Was Casing Cut Off Below Surface? <input type="checkbox"/> Yes <input type="checkbox"/> No Did Sealing Material Rise to Surface? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Did Material Settle After 24 Hours? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If Yes, Was Hole Retopped? <input type="checkbox"/> Yes <input type="checkbox"/> No	
Total Well Depth (ft) <u>10.0</u> Casing Diameter (in.) _____ (From ground surface) Casing Depth (ft.) _____	Lower Drillhole Diameter (in.) _____	(5) Required Method of Placing Sealing Material <input type="checkbox"/> Conductor Pipe - Gravity <input type="checkbox"/> Conductor Pipe - Pumped <input type="checkbox"/> Dump Bailer <input checked="" type="checkbox"/> Other (Explain) Gravity	
Was Well Annular Space Grouted? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown If Yes, To What Depth? _____ Feet		(6) Sealing Materials For monitoring wells and monitoring well boreholes only <input type="checkbox"/> Neat Cement Grout <input type="checkbox"/> Bentonite Pellets <input type="checkbox"/> Sand-Cement (Concrete) Grout <input type="checkbox"/> Granular Bentonite <input type="checkbox"/> Concrete <input type="checkbox"/> Bentonite-Cement Grout <input type="checkbox"/> Clay-Sand Slurry <input type="checkbox"/> Bentonite-Sand Slurry <input checked="" type="checkbox"/> Chipped Bentonite	

(7) Sealing Material Used	From (Ft.)	To (Ft.)	Mix Ratio or Mud Weight
3/8" Chipped Bentonite	Surface	10.0	0.25

(8) Comments _____

(9) Name of Person or Firm Doing Sealing Work
Key Engineering Group, Ltd.

Signature of Person Doing Work 	Date Signed <u>10/21/99</u>
Street of Route <u>W66 N215 Commerce Court</u>	Telephone Number <u>(262) 375-4750</u>
City, State, Zip Code <u>Cedarburg, Wisconsin 53012</u>	

(10) FOR DNR OR COUNTY USE ONLY

Date Received/Inspected	District/County
Reviewer/Inspector	<input type="checkbox"/> Complying Work <input type="checkbox"/> Noncomplying Work
Follow-up Necessary	

All abandonment work shall be performed in accordance with the provisions of Chapters NR 811, NR 812 or 141, Wis. Admin. Code, whichever is applicable.

(1) GENERAL INFORMATION		(2) FACILITY NAME <u>Tecumseh - East Section Fill Area</u>	
Well/Drillhole/Borehole Location	County <u>Calumet</u>	Original Well Owner (If Known) <u>Tecumseh Products Company</u>	
<u>SE</u> 1/4 of <u>10</u> ; T. <u>17</u> N.; R. <u>20</u> <input checked="" type="checkbox"/> E <input type="checkbox"/> W		Present Well Owner	
(If Applicable) Gov't Lot _____ Grid Number _____		Street or Route <u>1604 Michigan Avenue</u>	
Grid Location _____ ft. <input type="checkbox"/> N. <input type="checkbox"/> S., _____ ft. <input type="checkbox"/> E. <input type="checkbox"/> W.		City, State, Zip Code <u>New Holstein, WI</u>	
Civil Town Name		Facility Well No. and/or Name (If Applicable) <u>GP-4</u>	WI Unique Well No.
Street Address of Well <u>1604 Michigan Avenue</u>		Reason For Abandonment <u>Investigative Boring</u>	
City, Village <u>New Holstein</u>		Date of Abandonment <u>9/29/99</u>	

WELL/DRILLHOLE/BOREHOLE INFORMATION

(3) Original Well/Drillhole/Borehole Construction Completed On (Date) <u>9/29/99</u>		(4) Depth to Water (Feet)	
<input type="checkbox"/> Monitoring Well <input type="checkbox"/> Water Well <input type="checkbox"/> Drillhole <input checked="" type="checkbox"/> Borehole	Construction Report Available? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Pump & Piping Removed? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Not Applicable Liner(s) Removed? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Not Applicable Screen Removed? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Not Applicable Casing Left in Place? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If No, Explain <u>Not Installed</u>	
Construction Type: <input type="checkbox"/> Drilled <input type="checkbox"/> Driven (Sandpoint) <input type="checkbox"/> Dug <input checked="" type="checkbox"/> Other (Specify) <u>Geoprobe</u>	Formation Type: <input checked="" type="checkbox"/> Unconsolidated Formation <input type="checkbox"/> Bedrock	Was Casing Cut Off Below Surface? <input type="checkbox"/> Yes <input type="checkbox"/> No Did Sealing Material Rise to Surface? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Did Material Settle After 24 Hours? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If Yes, Was Hole Retopped? <input type="checkbox"/> Yes <input type="checkbox"/> No	
Total Well Depth (ft) <u>12.0</u> Casing Diameter (in.) _____ (From ground surface) Casing Depth (ft.) _____	Lower Drillhole Diameter (in.) _____	(5) Required Method of Placing Sealing Material <input type="checkbox"/> Conductor Pipe - Gravity <input type="checkbox"/> Conductor Pipe - Pumped <input type="checkbox"/> Dump Bailer <input checked="" type="checkbox"/> Other (Explain) Gravity	
Was Well Annular Space Grouted? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown If Yes, To What Depth? _____ Feet		(6) Sealing Materials <input type="checkbox"/> Neat Cement Grout <input type="checkbox"/> Sand-Cement (Concrete) Grout <input type="checkbox"/> Concrete <input type="checkbox"/> Clay-Sand Slurry <input type="checkbox"/> Bentonite-Sand Slurry <input checked="" type="checkbox"/> Chipped Bentonite	

(7) Sealing Material Used	From (Ft.)	To (Ft.)	Mix Ratio or Mud Weight
3/8" Chipped Bentonite	Surface	12.0	0.25

(8) Comments _____

(9) Name of Person or Firm Doing Sealing Work
Key Engineering Group, Ltd.

Signature of Person Doing Work 	Date Signed <u>10/21/99</u>
Street or Route <u>W66 N215 Commerce Court</u>	Telephone Number <u>(262) 375-4750</u>
City, State, Zip Code <u>Cedarburg, Wisconsin 53012</u>	

(10) FOR DNR OR COUNTY USE ONLY

Date Received/Inspected	District/County
Reviewer/Inspector	<input type="checkbox"/> Complying Work <input type="checkbox"/> Noncomplying Work
Follow-up Necessary	

All abandonment work shall be performed in accordance with the provisions of Chapters NR 811, NR 812 or 141, Wis. Admin. Code, whichever is applicable.

(1) GENERAL INFORMATION		(2) FACILITY NAME <u>Tecumseh - East Section Fill Area</u>	
Well/Drillhole/Borehole Location	County <u>Calumet</u>	Original Well Owner (If Known) <u>Tecumseh Products Company</u>	
<u>SE</u> 1/4 of <u>10</u> ; T. <u>17</u> N; R. <u>20</u> <input checked="" type="checkbox"/> E <input type="checkbox"/> W (If Applicable) Gov't Lot _____ Grid Number _____ Grid Location _____ ft. <input type="checkbox"/> N. <input type="checkbox"/> S., _____ ft. <input type="checkbox"/> E. <input type="checkbox"/> W. Civil Town Name _____		Present Well Owner Street or Route <u>1604 Michigan Avenue</u> City, State, Zip Code <u>New Holstein, WI</u>	
Street Address of Well <u>1604 Michigan Avenue</u> City, Village <u>New Holstein</u>		Facility Well No. and/or Name (If Applicable) <u>GP-5</u>	WI Unique Well No.
		Reason For Abandonment <u>Investigative Boring</u>	
		Date of Abandonment <u>9/29/99</u>	

WELL/DRILLHOLE/BOREHOLE INFORMATION

(3) Original Well/Drillhole/Borehole Construction Completed On (Date) <u>9/29/99</u>		(4) Depth to Water (Feet)	
<input type="checkbox"/> Monitoring Well <input type="checkbox"/> Water Well <input type="checkbox"/> Drillhole <input checked="" type="checkbox"/> Borehole	Construction Report Available? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Pump & Piping Removed? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Not Applicable Liner(s) Removed? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Not Applicable Screen Removed? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Not Applicable Casing Left in Place? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If No, Explain <u>Not Installed</u>	
Construction Type: <input type="checkbox"/> Drilled <input type="checkbox"/> Driven (Sandpoint) <input type="checkbox"/> Dug <input checked="" type="checkbox"/> Other (Specify) <u>Geoprobe</u>		Was Casing Cut Off Below Surface? <input type="checkbox"/> Yes <input type="checkbox"/> No Did Sealing Material Rise to Surface? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Did Material Settle After 24 Hours? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If Yes, Was Hole Retopped? <input type="checkbox"/> Yes <input type="checkbox"/> No	
Formation Type: <input checked="" type="checkbox"/> Unconsolidated Formation <input type="checkbox"/> Bedrock		(5) Required Method of Placing Sealing Material	
Total Well Depth (ft) <u>12.0</u> Casing Diameter (in.) _____ (From ground surface) Casing Depth (ft.) _____ Lower Drillhole Diameter (in.) _____		<input type="checkbox"/> Conductor Pipe - Gravity <input type="checkbox"/> Conductor Pipe - Pumped <input type="checkbox"/> Dump Bailer <input checked="" type="checkbox"/> Other (Explain) Gravity	
Was Well Annular Space Grouted? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown If Yes, To What Depth? _____ Feet		(6) Sealing Materials	
		For monitoring wells and monitoring well boreholes only <input type="checkbox"/> Neat Cement Grout <input type="checkbox"/> Bentonite Pellets <input type="checkbox"/> Sand-Cement (Concrete) Grout <input type="checkbox"/> Granular Bentonite <input type="checkbox"/> Concrete <input type="checkbox"/> Bentonite-Cement Grout <input type="checkbox"/> Clay-Sand Slurry <input type="checkbox"/> Bentonite-Sand Slurry <input checked="" type="checkbox"/> Chipped Bentonite	

(7) Sealing Material Used	From (Ft.)	To (Ft.)	Mix Ratio or Mud Weight
3/8" Chipped Bentonite	Surface	12.0	0.25

(8) Comments _____

(9) Name of Person or Firm Doing Sealing Work
Key Engineering Group, Ltd.

Signature of Person Doing Work 	Date Signed <u>10/2/99</u>
Street or Route <u>W66 N215 Commerce Court</u>	Telephone Number <u>(262) 375-4750</u>
City, State, Zip Code <u>Cedarburg, Wisconsin 53012</u>	

(10) FOR DNR OR COUNTY USE ONLY	
Date Received/Inspected	District/County
Reviewer/Inspector	<input type="checkbox"/> Complying Work <input type="checkbox"/> Noncomplying Work
Follow-up Necessary	

All abandonment work shall be performed in accordance with the provisions of Chapters NR 811, NR 812 or 141, Wis. Admin. Code, whichever is applicable.

(1) GENERAL INFORMATION		(2) FACILITY NAME Tecumseh - East Section Fill Area	
Well/Drillhole/Borehole Location	County Calumet	Original Well Owner (If Known) Tecumseh Products Company	
____ 1/4 of <u>SE</u> 1/4 of Sec. <u>10</u> ; T. <u>17</u> N; R. <u>20</u> <input checked="" type="checkbox"/> E <input type="checkbox"/> W (If Applicable)		Present Well Owner	
____ Gov't Lot _____ Grid Number	Street or Route 1604 Michigan Avenue		
Grid Location ____ ft. <input type="checkbox"/> N. <input type="checkbox"/> S., _____ ft. <input type="checkbox"/> E. <input type="checkbox"/> W.	City, State, Zip Code New Holstein, WI		
Civil Town Name	Facility Well No. and/or Name (If Applicable) GP-6	WI Unique Well No.	
Street Address of Well 1604 Michigan Avenue	Reason For Abandonment Investigative Boring		
City, Village New Holstein	Date of Abandonment 9/29/99		

WELL/DRILLHOLE/BOREHOLE INFORMATION

(3) Original Well/Drillhole/Borehole Construction Completed On (Date) <u>9/29/99</u>	(4) Depth to Water (Feet) _____
<input type="checkbox"/> Monitoring Well <input type="checkbox"/> Water Well <input type="checkbox"/> Drillhole <input checked="" type="checkbox"/> Borehole	Pump & Piping Removed? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Not Applicable Liner(s) Removed? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Not Applicable Screen Removed? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Not Applicable Casing Left in Place? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If No, Explain <u>Not Installed</u>
Construction Report Available? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Was Casing Cut Off Below Surface? <input type="checkbox"/> Yes <input type="checkbox"/> No Did Sealing Material Rise to Surface? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Did Material Settle After 24 Hours? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If Yes, Was Hole Retopped? <input type="checkbox"/> Yes <input type="checkbox"/> No
Construction Type: <input type="checkbox"/> Drilled <input type="checkbox"/> Driven (Sandpoint) <input type="checkbox"/> Dug <input checked="" type="checkbox"/> Other (Specify) <u>Geoprobe</u>	(5) Required Method of Placing Sealing Material <input type="checkbox"/> Conductor Pipe - Gravity <input type="checkbox"/> Conductor Pipe - Pumped <input type="checkbox"/> Dump Bailer <input checked="" type="checkbox"/> Other (Explain) Gravity
Formation Type: <input checked="" type="checkbox"/> Unconsolidated Formation <input type="checkbox"/> Bedrock	(6) Sealing Materials For monitoring wells and monitoring well boreholes only <input type="checkbox"/> Neat Cement Grout <input type="checkbox"/> Bentonite Pellets <input type="checkbox"/> Sand-Cement (Concrete) Grout <input type="checkbox"/> Granular Bentonite <input type="checkbox"/> Concrete <input type="checkbox"/> Clay-Sand Slurry <input type="checkbox"/> Bentonite-Cement Grout <input type="checkbox"/> Bentonite-Sand Slurry <input checked="" type="checkbox"/> Chipped Bentonite
Total Well Depth (ft) <u>12.0</u> Casing Diameter (in.) _____ (From ground surface) Casing Depth (ft.) _____	
Lower Drillhole Diameter (in.) _____	
Was Well Annular Space Grouted? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown If Yes, To What Depth? _____ Feet	

(7) Sealing Material Used	From (Ft.)	To (Ft.)	Mix Ratio or Mud Weight
3/8" Chipped Bentonite	Surface	12.0	0.25

(8) Comments _____

(9) Name of Person or Firm Doing Sealing Work
Key Engineering Group, Ltd.

Signature of Person Doing Work 	Date Signed <u>10/21/99</u>
Street or Route W66 N215 Commerce Court	Telephone Number (262) 375-4750
City, State, Zip Code Cedarburg, Wisconsin 53012	

(10) FOR DNR OR COUNTY USE ONLY	
Date Received/Inspected	District/County
Reviewer/Inspector	<input type="checkbox"/> Complying Work <input type="checkbox"/> Noncomplying Work
Follow-up Necessary	



1380 Busch Parkway
Buffalo Grove, Illinois 60089

Email: info@glalabs.com
(847) 808-7766 FAX (847) 808-7772

Date: October 12, 1999

Key Environmental Services, Inc.
W66 N215 Commerce Ct
Cedarburg, WI 53012
Attention: Curt Hoffart

Project: Tecumseh East

Enclosed are the results from 6 soil samples and 1 liquid sample received at Great Lakes Analytical on September 30, 1999.
The requested analyses are listed below:

SAMPLE#	SAMPLE DESCRIPTION	DATE OF COLLECTION	TEST METHOD
B909542-01	Soil: GP-4 6-8	9/29/99	RCRA Metals VOC, EPA 5030/8021 Percent Solids, EPA 7.3.3.1.5
B909542-02	Soil: GP-4 10-12	9/29/99	RCRA Metals VOC, EPA 5030/8021 Percent Solids, EPA 7.3.3.1.5
B909542-03	Soil: GP-5 4-6	9/29/99	RCRA Metals Percent Solids, EPA 7.3.3.1.5 VOC, EPA 5030/8021
B909542-04	Soil: GP-5 10-12	9/29/99	RCRA Metals VOC, EPA 5030/8021 Percent Solids, EPA 7.3.3.1.5
B909542-05	Soil: GP-6 4-6	9/29/99	RCRA Metals VOC, EPA 5030/8021 Percent Solids, EPA 7.3.3.1.5
B909542-06	Soil: GP-6 10-12	9/29/99	RCRA Metals Percent Solids, EPA 7.3.3.1.5 VOC, EPA 5030/8021
B909542-07	Liquid: MeOH Blank	9/29/99	VOC, EPA 5030/8021

This report may not be reproduced, except in full, without the written approval of the laboratory.

Please contact me if you have any questions. In the meantime, thank you for the opportunity to work with you on this project.

Very truly yours,

GREAT LAKES ANALYTICAL

Kevin W. Keeley
Laboratory Director



1380 Busch Parkway
Buffalo Grove, Illinois 60089

Email: info@glalabs.com
(847) 808-7766 FAX (847) 808-7772

Key Environmental Services, Inc. W66 N215 Commerce Ct Cedarburg, WI 53012 Attention: Curt Hoffart	Client Project ID: Tecumseh East Sample Descript: Soil: GP-4 6-8 Lab Number: B909542-01	Sampled: Sep 29, 1999 Received: Sep 30, 1999 Analyzed: Oct 6, 1999 Reported: Oct 12, 1999
--	---	--

RCRA METALS

Analyte	EPA Method	Detection Limit mg/kg, Dry Weight	Sample Results mg/kg, Dry Weight
Arsenic.....	3050B/6010B	3.1	N.D.
Barium.....	3050B/6010B	31	64
Cadmium.....	3050B/6010B	0.63	N.D.
Chromium.....	3050B/6010B	0.63	14
Lead.....	3050B/6010B	1.2	13
Mercury.....	7471	0.050	0.083
Selenium.....	3050B/6010B	0.63	1.0
Silver.....	3050B/6010B	3.1	N.D.

Analytes reported as N.D. were not present above the stated limit of detection.

GREAT LAKES ANALYTICAL

Kevin W. Keeley
Laboratory Director



1380 Busch Parkway
Buffalo Grove, Illinois 60089

Email: info@glalabs.com
(847) 808-7766 FAX (847) 808-7772

Key Environmental Services, Inc.
W66 N215 Commerce Ct
Cedarburg, WI 53012
Attention: Curt Hoffart

Client Project ID: Tecumseh East
Sample Descript: Soil: GP-4 10-12
Lab Number: B909542-02

Sampled: Sep 29, 1999
Received: Sep 30, 1999
Analyzed: Oct 6, 1999
Reported: Oct 12, 1999

RCRA METALS

Analyte	EPA Method	Detection Limit mg/kg, Dry Weight	Sample Results mg/kg, Dry Weight
Arsenic.....	3050B/6010B	2.8	N.D.
Barium.....	3050B/6010B	28	N.D.
Cadmium.....	3050B/6010B	0.57	N.D.
Chromium.....	3050B/6010B	0.57	3.9
Lead.....	3050B/6010B	1.1	N.D.
Mercury.....	7471	0.045	N.D.
Selenium.....	3050B/6010B	0.57	0.63
Silver.....	3050B/6010B	2.8	N.D.

Analytes reported as N.D. were not present above the stated limit of detection.

GREAT LAKES ANALYTICAL

Kevin W. Keeley
Laboratory Director



1380 Busch Parkway
Buffalo Grove, Illinois 60089

Email: info@glalabs.com
(847) 808-7766 FAX (847) 808-7772

Key Environmental Services, Inc. W66 N215 Commerce Ct Cedarburg, WI 53012 Attention: Curt Hoffart	Client Project ID: Tecumseh East Sample Descript: Soil: GP-5 4-6 Lab Number: B909542-03	Sampled: Sep 29, 1999 Received: Sep 30, 1999 Analyzed: Oct 6, 1999 Reported: Oct 12, 1999
--	---	--

RCRA METALS

Analyte	EPA Method	Detection Limit mg/kg, Dry Weight	Sample Results mg/kg, Dry Weight
Arsenic.....	3050B/6010B	3.0	N.D.
Barium.....	3050B/6010B	30	71
Cadmium.....	3050B/6010B	0.60	N.D.
Chromium.....	3050B/6010B	0.60	13
Lead.....	3050B/6010B	1.2	35
Mercury.....	7471	0.048	0.13
Selenium.....	3050B/6010B	0.60	1.6
Silver.....	3050B/6010B	3.0	N.D.

Analytes reported as N.D. were not present above the stated limit of detection.

GREAT LAKES ANALYTICAL

Kevin W. Keeley
Laboratory Director

Accreditations/Certifications: Illinois EPA-100261; New Jersey DEP-54001;
USACE; Wisconsin DNR-999917160

B909542-01.KEY <3>



1380 Busch Parkway
Buffalo Grove, Illinois 60089

Email: info@glalabs.com
(847) 808-7766 FAX (847) 808-7772

Key Environmental Services, Inc. W66 N215 Commerce Ct Cedarburg, WI 53012 Attention: Curt Hoffart	Client Project ID: Tecumseh East Sample Descript: Soil: GP-5 10-12 Lab Number: B909542-04	Sampled: Sep 29, 1999 Received: Sep 30, 1999 Analyzed: Oct 6, 1999 Reported: Oct 12, 1999
--	---	--

RCRA METALS

Analyte	EPA Method	Detection Limit mg/kg, Dry Weight	Sample Results mg/kg, Dry Weight
Arsenic.....	3050B/6010B	2.8	N.D.
Barium.....	3050B/6010B	28	N.D.
Cadmium.....	3050B/6010B	0.56	N.D.
Chromium.....	3050B/6010B	0.56	4.8
Lead.....	3050B/6010B	1.1	N.D.
Mercury.....	7471	0.045	N.D.
Selenium.....	3050B/6010B	0.56	N.D.
Silver.....	3050B/6010B	2.8	N.D.

Analytes reported as N.D. were not present above the stated limit of detection.

GREAT LAKES ANALYTICAL

Kevin W. Keeley
Laboratory Director



1380 Busch Parkway
Buffalo Grove, Illinois 60089

Email: info@glalabs.com
(847) 808-7766 FAX (847) 808-7772

Key Environmental Services, Inc. W66 N215 Commerce Ct Cedarburg, WI 53012 Attention: Curt Hoffart	Client Project ID: Tecumseh East Sample Descript: Soil: GP-6 4-6 Lab Number: B909542-05	Sampled: Sep 29, 1999 Received: Sep 30, 1999 Analyzed: Oct 6, 1999 Revised Report: Feb 4, 2000
--	---	---

RCRA METALS

Analyte	EPA Method	Detection Limit mg/kg, Dry Weight	Sample Results mg/kg, Dry Weight
Arsenic.....	3050B/6010B	3.0	N.D.
Barium.....	3050B/6010B	30	43
Cadmium.....	3050B/6010B	0.61	N.D.
Chromium.....	3050B/6010B	0.61	12
Lead.....	3050B/6010B	1.2	14
Mercury.....	7471	0.049	N.D.
Selenium.....	3050B/6010B	0.61	1.8
Silver.....	3050B/6010B	3.0	N.D.

Analytes reported as N.D. were not present above the stated limit of detection.

GREAT LAKES ANALYTICAL


Kevin W. Keeley
Laboratory Director



1380 Busch Parkway
Buffalo Grove, Illinois 60089

Email: info@glalabs.com
(847) 808-7766 FAX (847) 808-7772

Key Environmental Services, Inc. W66 N215 Commerce Ct Cedarburg, WI 53012 Attention: Curt Hoffart	Client Project ID: Tecumseh East Sample Descript: Soil: GP-6 10-12 Lab Number: B909542-06	Sampled: Sep 29, 1999 Received: Sep 30, 1999 Analyzed: Oct 6, 1999 Reported: Oct 12, 1999
--	---	--

RCRA METALS

Analyte	EPA Method	Detection Limit mg/kg, Dry Weight	Sample Results mg/kg, Dry Weight
Arsenic.....	3050B/6010B	2.8	N.D.
Barium.....	3050B/6010B	28	35
Cadmium.....	3050B/6010B	0.56	N.D.
Chromium.....	3050B/6010B	0.56	8.8
Lead.....	3050B/6010B	1.1	6.7
Mercury.....	7471 —	0.044	N.D.
Selenium.....	3050B/6010B	0.56	N.D.
Silver.....	3050B/6010B	2.8	N.D.

Analytes reported as N.D. were not present above the stated limit of detection.

GREAT LAKES ANALYTICAL

Kevin W. Keeley
Laboratory Director



1380 Busch Parkway
Buffalo Grove, Illinois 60089


Email: info@glalabs.com
(847) 808-7766 FAX (847) 808-7772

Key Environmental Services, Inc. W66 N215 Commerce Ct Cedarburg, WI 53012 Attention: Curt Hoffart	Client Project ID: Tecumseh East Sample Descript: Soil Analysis for: Percent Solids, EPA 7.3.3.1.5 First Sample #: B909542-01	Sampled: Sep 29, 1999 Received: Sep 30, 1999 Analyzed: Oct 6-7, 1999 Reported: Oct 12, 1999
--	--	--

LABORATORY ANALYSIS FOR: Percent Solids, EPA 7.3.3.1.5

Sample Number	Sample Description	Detection Limit %	Sample Result %
B909542-01	GP-4 6-8	0.10	80
B909542-02	GP-4 10-12	0.10	88
B909542-03	GP-5 4-6	0.10	84
B909542-04	GP-5 10-12	0.10	89
B909542-05	GP-6 4-6	0.10	82
B909542-06	GP-6 10-12	0.10	90

GREAT LAKES ANALYTICAL


Kevin W. Keeley
Laboratory Director

Key Environmental Services, Inc. W66 N215 Commerce Ct Cedarburg, WI 53012 Attention: Curt Hoffart	Client Project ID: Tecumseh East Sample Descript: Soil: GP-4 6-8 Analysis Method: EPA 5030/8021 Lab Number: B909542-01	Sampled: Sep 29, 1999 Received: Sep 30, 1999 Analyzed: Oct 8, 1999 Revised Reported: Oct 21, 1999
--	---	--

WDNR VOLATILE ORGANIC COMPOUNDS (5030/8021)

Analyte	Method Detection Limit $\mu\text{g}/\text{kg}$	Practical Quantitation Limit $\mu\text{g}/\text{kg}$	WDNR Reporting Limit $\mu\text{g}/\text{kg}$ Wet Weight	Sample Results $\mu\text{g}/\text{kg}$ Dry Weight
Benzene.....	2.6	8.1	25	N.D.
Bromobenzene.....	6.9	22	25	N.D.
Bromodichloromethane.....	5.1	16	25	N.D.
n-Butylbenzene.....	9.6	31	25	1,300
sec-Butylbenzene.....	6.0	19	25	N.D.
tert-Butylbenzene.....	6.1	19	25	620
Carbon tetrachloride.....	3.0	9.4	25	N.D.
Chlorobenzene.....	6.2	20	25	N.D.
Chloroethane.....	13	40	25	N.D.
Chloroform.....	3.8	12	25	N.D.
Chloromethane.....	8.1	26	25	N.D.
2-Chlorotoluene.....	6.7	21	25	N.D.
4-Chlorotoluene.....	9.8	31	25	N.D.
Dibromochloromethane.....	6.2	20	25	N.D.
1,2-Dibromo-3-chloropropane...	11	34	25	N.D.
1,2-Dibromoethane.....	8.4	27	25	N.D.
1,2-Dichlorobenzene.....	5.4	17	25	N.D.
1,3-Dichlorobenzene.....	7.1	23	25	N.D.
1,4-Dichlorobenzene.....	7.6	24	25	N.D.
Dichlorodifluoromethane.....	11	35	25	N.D.
1,1-Dichloroethane.....	7.2	23	25	N.D.
1,2-Dichloroethane.....	2.3	7.5	25	N.D.
1,1-Dichloroethene.....	5.7	18	25	N.D.
cis-1,2-Dichloroethene.....	6.0	19	25	N.D.
trans-1,2-Dichloroethene.....	5.4	17	25	N.D.
1,2-Dichloropropane.....	3.6	12	25	N.D.
1,3-Dichloropropane.....	6.1	19	25	N.D.
2,2-Dichloropropane.....	9.3	30	25	53
Di-Isopropyl-Ether.....	5.3	17	25	N.D.
Ethyl Benzene.....	3.5	11	25	210

Key Environmental Services, Inc. W66 N215 Commerce Ct Cedarburg, WI 53012 Attention: Curt Hoffart	Client Project ID: Tecumseh East Sample Descript: Soil: GP-4 6-8 Analysis Method: EPA 5030/8021 Lab Number: B909542-01	Sampled: Sep 29, 1999 Received: Sep 30, 1999 Analyzed: Oct 8, 1999 Revised Reported: Oct 21, 1999
--	---	--

WDNR VOLATILE ORGANIC COMPOUNDS (5030/8021)

Analyte	Method Detection Limit $\mu\text{g}/\text{kg}$	Practical Quantitation Limit $\mu\text{g}/\text{kg}$	WDNR Reporting Limit $\mu\text{g}/\text{kg}$ Wet Weight	Sample Results $\mu\text{g}/\text{kg}$ Dry Weight
Hexachlorobutadiene.....	16	51	25	N.D.
Isopropylbenzene.....	3.5	11	25	430
p-Isopropyltoluene.....	9.8	31	25	N.D.
Methylene chloride.....	34	110	100	260B
Methyl-tert-Butyl-Ether.....	6.6	21	25	N.D.
Napthalene.....	7.4	24	25	410
n-Propylbenzene.....	8.4	27	25	360
1,1,2,2-Tetrachloroethane.....	8.9	28	25	N.D.
Tetrachloroethene.....	5.2	16	25	N.D.
Toluene.....	3.4	11	25	200
1,2,3-Trichlorobenzene.....	8.5	27	25	N.D.
1,2,4-Trichlorobenzene.....	7.3	23	25	N.D.
1,1,1-Trichloroethane.....	5.6	18	25	N.D.
1,1,2-Trichloroethane.....	4.6	15	25	N.D.
Trichloroethene.....	6.2	20	25	N.D.
Trichlorofluoromethane.....	8.1	26	25	N.D.
1,2,4-Trimethylbenzene.....	5.0	16	25	750
1,3,5-Trimethylbenzene.....	6.2	20	25	450
Vinyl chloride.....	8.2	26	25	N.D.
Total Xylenes.....	6.6	21	25	750

Analytes reported as N.D. were not present above the WDNR Reporting Limit IN WET WEIGHT as specified in Release News, Volume 4, Number 3, July 1994.

GREAT LAKES ANALYTICAL


 Kevin W. Keeley
 Laboratory Director

Please Note:

B= The blank associated with this sample contained 170 ppb of Methylene Chloride.

Key Environmental Services, Inc.
 W66 N215 Commerce Ct
 Cedarburg, WI 53012
 Attention: Curt Hoffart

 Client Project ID: Tecumseh East
 Sample Descript: Soil: GP-4 10-12
 Analysis Method: EPA 5030/8021
 Lab Number: B909542-02

 Sampled: Sep 29, 1999
 Received: Sep 30, 1999
 Analyzed: Oct 8, 1999
 Reported: Oct 12, 1999

WDNR VOLATILE ORGANIC COMPOUNDS (5030/8021)

Analyte	Method Detection Limit µg/kg	Practical Quantitation Limit µg/kg	WDNR Reporting Limit µg/kg Wet Weight	Sample Results µg/kg Dry Weight
Benzene.....	2.6	8.1	25	N.D.
Bromobenzene.....	6.9	22	25	N.D.
Bromodichloromethane.....	5.1	16	25	N.D.
n-Butylbenzene.....	9.6	31	25	120
sec-Butylbenzene.....	6.0	19	25	N.D.
tert-Butylbenzene.....	6.1	19	25	N.D.
Carbon tetrachloride.....	3.0	9.4	25	N.D.
Chlorobenzene.....	6.2	20	25	N.D.
Chloroethane.....	13	40	25	N.D.
Chloroform.....	3.8	12	25	N.D.
Chloromethane.....	8.1	26	25	N.D.
2-Chlorotoluene.....	6.7	21	25	N.D.
4-Chlorotoluene.....	9.8	31	25	N.D.
Dibromochloromethane.....	6.2	20	25	N.D.
1,2-Dibromo-3-chloropropane...	11	34	25	N.D.
1,2-Dibromoethane.....	8.4	27	25	N.D.
1,2-Dichlorobenzene.....	5.4	17	25	N.D.
1,3-Dichlorobenzene.....	7.1	23	25	N.D.
1,4-Dichlorobenzene.....	7.6	24	25	N.D.
Dichlorodifluoromethane.....	11	35	25	N.D.
1,1-Dichloroethane.....	7.2	23	25	N.D.
1,2-Dichloroethane.....	2.3	7.5	25	N.D.
1,1-Dichloroethene.....	5.7	18	25	N.D.
cis-1,2-Dichloroethene.....	6.0	19	25	N.D.
trans-1,2-Dichloroethene.....	5.4	17	25	N.D.
1,2-Dichloropropane.....	3.6	12	25	N.D.
1,3-Dichloropropane.....	6.1	19	25	N.D.
2,2-Dichloropropane.....	9.3	30	25	N.D.
Di-Isopropyl-Ether.....	5.3	17	25	N.D.
Ethyl Benzene.....	3.5	11	25	N.D.

Key Environmental Services, Inc. W66 N215 Commerce Ct Cedarburg, WI 53012 Attention: Curt Hoffart	Client Project ID: Tecumseh East Sample Descript: Soil: GP-4 10-12 Analysis Method: EPA 5030/8021 Lab Number: B909542-02	Sampled: Sep 29, 1999 Received: Sep 30, 1999 Analyzed: Oct 8, 1999 Reported: Oct 12, 1999
--	---	--

WDNR VOLATILE ORGANIC COMPOUNDS (5030/8021)

Analyte	Method Detection Limit µg/kg	Practical Quantitation Limit µg/kg	WDNR Reporting Limit µg/kg Wet Weight	Sample Results µg/kg Dry Weight
Hexachlorobutadiene.....	16	51	25	N.D.
Isopropylbenzene.....	3.5	11	25	N.D.
p-Isopropyltoluene.....	9.8	31	25	N.D.
Methylene chloride.....	34	110	100	230B
Methyl-tert-Butyl-Ether.....	6.6	21	25	N.D.
Napthalene.....	7.4	24	25	110
n-Propylbenzene.....	8.4	27	25	N.D.
1,1,2,2-Tetrachloroethane.....	8.9	28	25	N.D.
Tetrachloroethene.....	5.2	16	25	N.D.
Toluene.....	3.4	11	25	N.D.
1,2,3-Trichlorobenzene.....	8.5	27	25	N.D.
1,2,4-Trichlorobenzene.....	7.3	23	25	N.D.
1,1,1-Trichloroethane.....	5.6	18	25	N.D.
1,1,2-Trichloroethane.....	4.6	15	25	N.D.
Trichloroethene.....	6.2	20	25	N.D.
Trichlorofluoromethane.....	8.1	26	25	N.D.
1,2,4-Trimethylbenzene.....	5.0	16	25	95
1,3,5-Trimethylbenzene.....	6.2	20	25	N.D.
Vinyl chloride.....	8.2	26	25	N.D.
Total Xylenes.....	6.6	21	25	N.D.

Analytes reported as N.D. were not present above the WDNR Reporting Limit IN WET WEIGHT as specified in Release News, Volume 4, Number 3, July 1994.

GREAT LAKES ANALYTICAL


 Kevin W. Keeley
 Laboratory Director

Please Note:
 B= The blank associated with this sample contained 170 ppb of Methylene Chloride.

Key Environmental Services, Inc. W66 N215 Commerce Ct Cedarburg, WI 53012 Attention: Curt Hoffart	Client Project ID: Tecumseh East Sample Descript: Soil: GP-5 4-6 Analysis Method: EPA 5030/8021 Lab Number: B909542-03	Sampled: Sep 29, 1999 Received: Sep 30, 1999 Analyzed: Oct 8, 1999 Revised Reported: Oct 21, 1999
--	---	--

WDNR VOLATILE ORGANIC COMPOUNDS (5030/8021)

Analyte	Method Detection Limit µg/kg	Practical Quanitation Limit µg/kg	WDNR Reporting Limit µg/kg Wet Weight	Sample Results µg/kg Dry Weight
Benzene.....	2.6	8.1	25	N.D.
Bromobenzene.....	6.9	22	25	N.D.
Bromodichloromethane.....	5.1	16	25	N.D.
n-Butylbenzene.....	9.6	31	25	2,200
sec-Butylbenzene.....	6.0	19	25	1,700
tert-Butylbenzene.....	6.1	19	25	450
Carbon tetrachloride.....	3.0	9.4	25	N.D.
Chlorobenzene.....	6.2	20	25	N.D.
Chloroethane.....	13	40	25	N.D.
Chloroform.....	3.8	12	25	N.D.
Chloromethane.....	8.1	26	25	N.D.
2-Chlorotoluene.....	6.7	21	25	N.D.
4-Chlorotoluene.....	9.8	31	25	N.D.
Dibromochloromethane.....	6.2	20	25	N.D.
1,2-Dibromo-3-chloropropane...	11	34	25	N.D.
1,2-Dibromoethane.....	8.4	27	25	N.D.
1,2-Dichlorobenzene.....	5.4	17	25	360
1,3-Dichlorobenzene.....	7.1	23	25	N.D.
1,4-Dichlorobenzene.....	7.6	24	25	N.D.
Dichlorodifluoromethane.....	11	35	25	N.D.
1,1-Dichloroethane.....	7.2	23	25	N.D.
1,2-Dichloroethane.....	2.3	7.5	25	N.D.
1,1-Dichloroethene.....	5.7	18	25	N.D.
cis-1,2-Dichloroethene.....	6.0	19	25	N.D.
trans-1,2-Dichloroethene.....	5.4	17	25	N.D.
1,2-Dichloropropane.....	3.6	12	25	N.D.
1,3-Dichloropropane.....	6.1	19	25	N.D.
2,2-Dichloropropane.....	9.3	30	25	N.D.
Di-Isopropyl-Ether.....	5.3	17	25	N.D.
Ethyl Benzene.....	3.5	11	25	2,200

Key Environmental Services, Inc.
 W66 N215 Commerce Ct
 Cedarburg, WI 53012
 Attention: Curt Hoffart

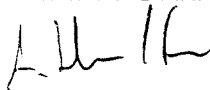
 Client Project ID: Tecumseh East
 Sample Descript: Soil: GP-5 4-6
 Analysis Method: EPA 5030/8021
 Lab Number: B909542-03

 Sampled: Sep 29, 1999
 Received: Sep 30, 1999
 Analyzed: Oct 8, 1999
 Revised Reported: Oct 21, 1999

WDNR VOLATILE ORGANIC COMPOUNDS (5030/8021)

Analyte	Method Detection Limit $\mu\text{g}/\text{kg}$	Practical Quantitation Limit $\mu\text{g}/\text{kg}$	WDNR Reporting Limit $\mu\text{g}/\text{kg}$ Wet Weight	Sample Results $\mu\text{g}/\text{kg}$ Dry Weight
Hexachlorobutadiene.....	16	51	25	N.D.
Isopropylbenzene.....	3.5	11	25	2,200
p-Isopropyltoluene.....	9.8	31	25	N.D.
Methylene chloride.....	34	110	100	140B
Methyl-tert-Butyl-Ether.....	6.6	21	25	N.D.
Napthalene.....	7.4	24	25	2,500
n-Propylbenzene.....	8.4	27	25	1,200
1,1,2,2-Tetrachloroethane.....	8.9	28	25	N.D.
Tetrachloroethene.....	5.2	16	25	N.D.
Toluene.....	3.4	11	25	250
1,2,3-Trichlorobenzene.....	8.5	27	25	N.D.
1,2,4-Trichlorobenzene.....	7.3	23	25	N.D.
1,1,1-Trichloroethane.....	5.6	18	25	N.D.
1,1,2-Trichloroethane.....	4.6	15	25	N.D.
Trichloroethene.....	6.2	20	25	N.D.
Trichlorofluoromethane.....	8.1	26	25	N.D.
1,2,4-Trimethylbenzene.....	5.0	16	25	2,000
1,3,5-Trimethylbenzene.....	6.2	20	25	1,200
Vinyl chloride.....	8.2	26	25	N.D.
Total Xylenes.....	6.6	21	25	9,700

Analytes reported as N.D. were not present above the WDNR Reporting Limit IN WET WEIGHT as specified in Release News, Volume 4, Number 3, July 1994.

GREAT LAKES ANALYTICAL

 Kevin W. Keeley
 Laboratory Director

Please Note:

B= The blank associated with this sample contained 170 ppb of Methylene Chloride.

Key Environmental Services, Inc. W66 N215 Commerce Ct Cedarburg, WI 53012 Attention: Curt Hoffart	Client Project ID: Tecumseh East Sample Descript: Soil: GP-5 10-12 Analysis Method: EPA 5030/8021 Lab Number: B909542-04	Sampled: Sep 29, 1999 Received: Sep 30, 1999 Analyzed: Oct 6, 1999 Reported: Oct 12, 1999
--	---	--

WDNR VOLATILE ORGANIC COMPOUNDS (5030/8021)

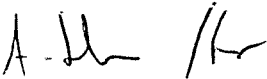
Analyte	Method Detection Limit µg/kg	Practical Quantitation Limit µg/kg	WDNR Reporting Limit µg/kg Wet Weight	Sample Results µg/kg Dry Weight
Benzene.....	2.6	8.1	25	N.D.
Bromobenzene.....	6.9	22	25	N.D.
Bromodichloromethane.....	5.1	16	25	N.D.
n-Butylbenzene.....	9.6	31	25	N.D.
sec-Butylbenzene.....	6.0	19	25	N.D.
tert-Butylbenzene.....	6.1	19	25	N.D.
Carbon tetrachloride.....	3.0	9.4	25	N.D.
Chlorobenzene.....	6.2	20	25	N.D.
Chloroethane.....	13	40	25	N.D.
Chloroform.....	3.8	12	25	N.D.
Chloromethane.....	8.1	26	25	N.D.
2-Chlorotoluene.....	6.7	21	25	N.D.
4-Chlorotoluene.....	9.8	31	25	N.D.
Dibromochloromethane.....	6.2	20	25	N.D.
1,2-Dibromo-3-chloropropane...	11	34	25	N.D.
1,2-Dibromoethane.....	8.4	27	25	N.D.
1,2-Dichlorobenzene.....	5.4	17	25	N.D.
1,3-Dichlorobenzene.....	7.1	23	25	N.D.
1,4-Dichlorobenzene.....	7.6	24	25	N.D.
Dichlorodifluoromethane.....	11	35	25	N.D.
1,1-Dichloroethane.....	7.2	23	25	N.D.
1,2-Dichloroethane.....	2.3	7.5	25	N.D.
1,1-Dichloroethene.....	5.7	18	25	N.D.
cis-1,2-Dichloroethene.....	6.0	19	25	N.D.
trans-1,2-Dichloroethene.....	5.4	17	25	N.D.
1,2-Dichloropropane.....	3.6	12	25	N.D.
1,3-Dichloropropane.....	6.1	19	25	N.D.
2,2-Dichloropropane.....	9.3	30	25	N.D.
Di-Isopropyl-Ether.....	5.3	17	25	N.D.
Ethyl Benzene.....	3.5	11	25	34

Key Environmental Services, Inc. W66 N215 Commerce Ct Cedarburg, WI 53012 Attention: Curt Hoffart	Client Project ID: Tecumseh East Sample Descript: Soil: GP-5 10-12 Analysis Method: EPA 5030/8021 Lab Number: B909542-04	Sampled: Sep 29, 1999 Received: Sep 30, 1999 Analyzed: Oct 6, 1999 Reported: Oct 12, 1999
--	---	--

WDNR VOLATILE ORGANIC COMPOUNDS (5030/8021)

Analyte	Method Detection Limit µg/kg	Practical Quantitation Limit µg/kg	WDNR Reporting Limit µg/kg Wet Weight	Sample Results µg/kg Dry Weight
Hexachlorobutadiene.....	16	51	25	N.D.
Isopropylbenzene.....	3.5	11	25	N.D.
p-Isopropyltoluene.....	9.8	31	25	N.D.
Methylene chloride.....	34	110	100	240B
Methyl-tert-Butyl-Ether.....	6.6	21	25	N.D.
Napthalene.....	7.4	24	25	N.D.
n-Propylbenzene.....	8.4	27	25	N.D.
1,1,2,2-Tetrachloroethane.....	8.9	28	25	N.D.
Tetrachloroethene.....	5.2	16	25	N.D.
Toluene.....	3.4	11	25	N.D.
1,2,3-Trichlorobenzene.....	8.5	27	25	N.D.
1,2,4-Trichlorobenzene.....	7.3	23	25	N.D.
1,1,1-Trichloroethane.....	5.6	18	25	N.D.
1,1,2-Trichloroethane.....	4.6	15	25	N.D.
Trichloroethene.....	6.2	20	25	N.D.
Trichlorofluoromethane.....	8.1	26	25	N.D.
1,2,4-Trimethylbenzene.....	5.0	16	25	38
1,3,5-Trimethylbenzene.....	6.2	20	25	N.D.
Vinyl chloride.....	8.2	26	25	N.D.
Total Xylenes.....	6.6	21	25	170

Analytes reported as N.D. were not present above the WDNR Reporting Limit IN WET WEIGHT as specified in Release News, Volume 4, Number 3, July 1994.

GREAT LAKES ANALYTICAL


 Kevin W. Keeley
 Laboratory Director

Please Note:
 B= The blank associated with this sample contained 170 ppb of Methylene Chloride.

Key Environmental Services, Inc. W66 N215 Commerce Ct Cedarburg, WI 53012 Attention: Curt Hoffart	Client Project ID: Tecumseh East Sample Descript: Soil: GP-6 4-6 Analysis Method: EPA 5030/8021 Lab Number: B909542-05	Sampled: Sep 29, 1999 Received: Sep 30, 1999 Analyzed: Oct 8, 1999 Reported: Oct 12, 1999
--	---	--

WDNR VOLATILE ORGANIC COMPOUNDS (5030/8021)


Analyte	Method Detection Limit µg/kg	Practical Quantitation Limit µg/kg	WDNR Reporting Limit µg/kg Wet Weight	Sample Results µg/kg Dry Weight
Benzene.....	2.6	8.1	25	N.D.
Bromobenzene.....	6.9	22	25	N.D.
Bromodichloromethane.....	5.1	16	25	N.D.
n-Butylbenzene.....	9.6	31	25	620
sec-Butylbenzene.....	6.0	19	25	300
tert-Butylbenzene.....	6.1	19	25	N.D.
Carbon tetrachloride.....	3.0	9.4	25	N.D.
Chlorobenzene.....	6.2	20	25	N.D.
Chloroethane.....	13	40	25	N.D.
Chloroform.....	3.8	12	25	N.D.
Chloromethane.....	8.1	26	25	N.D.
2-Chlorotoluene.....	6.7	21	25	N.D.
4-Chlorotoluene.....	9.8	31	25	N.D.
Dibromochloromethane.....	6.2	20	25	N.D.
1,2-Dibromo-3-chloropropane...	11	34	25	N.D.
1,2-Dibromoethane.....	8.4	27	25	N.D.
1,2-Dichlorobenzene.....	5.4	17	25	N.D.
1,3-Dichlorobenzene.....	7.1	23	25	N.D.
1,4-Dichlorobenzene.....	7.6	24	25	N.D.
Dichlorodifluoromethane.....	11	35	25	N.D.
1,1-Dichloroethane.....	7.2	23	25	N.D.
1,2-Dichloroethane.....	2.3	7.5	25	N.D.
1,1-Dichloroethene.....	5.7	18	25	N.D.
cis-1,2-Dichloroethene.....	6.0	19	25	N.D.
trans-1,2-Dichloroethene.....	5.4	17	25	N.D.
1,2-Dichloropropane.....	3.6	12	25	N.D.
1,3-Dichloropropane.....	6.1	19	25	N.D.
2,2-Dichloropropane.....	9.3	30	25	N.D.
Di-Isopropyl-Ether.....	5.3	17	25	200
Ethyl Benzene.....	3.5	11	25	440

Key Environmental Services, Inc.	Client Project ID: Tecumseh East	Sampled: Sep 29, 1999
W66 N215 Commerce Ct	Sample Descript: Soil: GP-6 4-6	Received: Sep 30, 1999
Cedarburg, WI 53012	Analysis Method: EPA 5030/8021	
Attention: Curt Hoffart	Lab Number: B909542-05	Analyzed: Oct 8, 1999
		Reported: Oct 12, 1999

WDNR VOLATILE ORGANIC COMPOUNDS (5030/8021)

Analyte	Method Detection Limit µg/kg	Practical Quantitation Limit µg/kg	WDNR Reporting Limit µg/kg Wet Weight	Sample Results µg/kg Dry Weight
Hexachlorobutadiene.....	16	51	25	N.D.
Isopropylbenzene.....	3.5	11	25	210
p-Isopropyltoluene.....	9.8	31	25	N.D.
Methylene chloride.....	34	110	100	230B
Methyl-tert-Butyl-Ether.....	6.6	21	25	N.D.
Napthalene.....	7.4	24	25	190
n-Propylbenzene.....	8.4	27	25	240
1,1,2,2-Tetrachloroethane.....	8.9	28	25	N.D.
Tetrachloroethene.....	5.2	16	25	N.D.
Toluene.....	3.4	11	25	90
1,2,3-Trichlorobenzene.....	8.5	27	25	N.D.
1,2,4-Trichlorobenzene.....	7.3	23	25	N.D.
1,1,1-Trichloroethane.....	5.6	18	25	N.D.
1,1,2-Trichloroethane.....	4.6	15	25	N.D.
Trichloroethene.....	6.2	20	25	N.D.
Trichlorofluoromethane.....	8.1	26	25	N.D.
1,2,4-Trimethylbenzene.....	5.0	16	25	870
1,3,5-Trimethylbenzene.....	6.2	20	25	320
Vinyl chloride.....	8.2	26	25	N.D.
Total Xylenes.....	6.6	21	25	970

Analytes reported as N.D. were not present above the WDNR Reporting Limit IN WET WEIGHT as specified in Release News, Volume 4, Number 3, July 1994.

GREAT LAKES ANALYTICAL


 Kevin W. Keeley
 Laboratory Director

Please Note:

B= The blank associated with this sample contained 170 ppb of Methylene Chloride.

Key Environmental Services, Inc.
 W66 N215 Commerce Ct
 Cedarburg, WI 53012
 Attention: Curt Hoffart

 Client Project ID: Tecumseh East
 Sample Descript: Soil: GP-6 10-12
 Analysis Method: EPA 5030/8021
 Lab Number: B909542-06

 Sampled: Sep 29, 1999
 Received: Sep 30, 1999
 Analyzed: Oct 6, 1999
 Reported: Oct 12, 1999

WDNR VOLATILE ORGANIC COMPOUNDS (5030/8021)

Analyte	Method Detection Limit µg/kg	Practical Quanitation Limit µg/kg	WDNR Reporting Limit µg/kg Wet Weight	Sample Results µg/kg Dry Weight
Benzene.....	2.6	8.1	25	N.D.
Bromobenzene.....	6.9	22	25	N.D.
Bromodichloromethane.....	5.1	16	25	N.D.
n-Butylbenzene.....	9.6	31	25	N.D.
sec-Butylbenzene.....	6.0	19	25	N.D.
tert-Butylbenzene.....	6.1	19	25	N.D.
Carbon tetrachloride.....	3.0	9.4	25	N.D.
Chlorobenzene.....	6.2	20	25	N.D.
Chloroethane.....	13	40	25	N.D.
Chloroform.....	3.8	12	25	N.D.
Chloromethane.....	8.1	26	25	N.D.
2-Chlorotoluene.....	6.7	21	25	N.D.
4-Chlorotoluene.....	9.8	31	25	N.D.
Dibromochloromethane.....	6.2	20	25	N.D.
1,2-Dibromo-3-chloropropane...	11	34	25	N.D.
1,2-Dibromoethane.....	8.4	27	25	N.D.
1,2-Dichlorobenzene.....	5.4	17	25	N.D.
1,3-Dichlorobenzene.....	7.1	23	25	N.D.
1,4-Dichlorobenzene.....	7.6	24	25	N.D.
Dichlorodifluoromethane.....	11	35	25	N.D.
1,1-Dichloroethane.....	7.2	23	25	N.D.
1,2-Dichloroethane.....	2.3	7.5	25	N.D.
1,1-Dichloroethene.....	5.7	18	25	N.D.
cis-1,2-Dichloroethene.....	6.0	19	25	N.D.
trans-1,2-Dichloroethene.....	5.4	17	25	N.D.
1,2-Dichloropropane.....	3.6	12	25	N.D.
1,3-Dichloropropane.....	6.1	19	25	N.D.
2,2-Dichloropropane.....	9.3	30	25	N.D.
Di-Isopropyl-Ether.....	5.3	17	25	N.D.
Ethyl Benzene.....	3.5	11	25	N.D.

Key Environmental Services, Inc.
 W66 N215 Commerce Ct
 Cedarburg, WI 53012
 Attention: Curt Hoffart

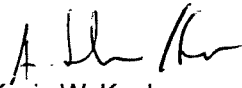
 Client Project ID: Tecumseh East
 Sample Descript: Soil: GP-6 10-12
 Analysis Method: EPA 5030/8021
 Lab Number: B909542-06

 Sampled: Sep 29, 1999
 Received: Sep 30, 1999
 Analyzed: Oct 6, 1999
 Reported: Oct 12, 1999

WDNR VOLATILE ORGANIC COMPOUNDS (5030/8021)

Analyte	Method Detection Limit µg/kg	Practical Quantitation Limit µg/kg	WDNR Reporting Limit µg/kg Wet Weight	Sample Results µg/kg Dry Weight
Hexachlorobutadiene.....	16	51	25	N.D.
Isopropylbenzene.....	3.5	11	25	N.D.
p-Isopropyltoluene.....	9.8	31	25	N.D.
Methylene chloride.....	34	110	100	240B
Methyl-tert-Butyl-Ether.....	6.6	21	25	N.D.
Napthalene.....	7.4	24	25	N.D.
n-Propylbenzene.....	8.4	27	25	N.D.
1,1,2,2-Tetrachloroethane.....	8.9	28	25	N.D.
Tetrachloroethene.....	5.2	16	25	N.D.
Toluene.....	3.4	11	25	N.D.
1,2,3-Trichlorobenzene.....	8.5	27	25	N.D.
1,2,4-Trichlorobenzene.....	7.3	23	25	N.D.
1,1,1-Trichloroethane.....	5.6	18	25	N.D.
1,1,2-Trichloroethane.....	4.6	15	25	N.D.
Trichloroethene.....	6.2	20	25	N.D.
Trichlorofluoromethane.....	8.1	26	25	N.D.
1,2,4-Trimethylbenzene.....	5.0	16	25	N.D.
1,3,5-Trimethylbenzene.....	6.2	20	25	N.D.
Vinyl chloride.....	8.2	26	25	N.D.
Total Xylenes.....	6.6	21	25	N.D.

Analytes reported as N.D. were not present above the WDNR Reporting Limit IN WET WEIGHT as specified in Release News, Volume 4, Number 3, July 1994.

GREAT LAKES ANALYTICAL

 Kevin W. Keeley
 Laboratory Director

 Please Note:
 B= The blank associated with this sample contained 170 ppb of Methylene Chloride.

Key Environmental Services, Inc.
 W66 N215 Commerce Ct
 Cedarburg, WI 53012
 Attention: Curt Hoffart

 Client Project ID: Tecumseh East
 Sample Descript: Liquid: MeOH Blank
 Analysis Method: EPA 5030/8021
 Lab Number: B909542-07

 Sampled: Sep 29, 1999
 Received: Sep 30, 1999
 Analyzed: Oct 6, 1999
 Revised Reported: Oct 21, 1999

WDNR VOLATILE ORGANIC COMPOUNDS (5030/8021)

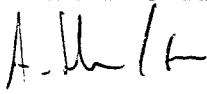
Analyte	Method Detection Limit µg/L	Practical Quantitation Limit µg/L	WDNR Reporting Limit µg/L	Sample Results µg/L
Benzene.....	2.6	8.1	25	N.D.
Bromobenzene.....	6.9	22	25	N.D.
Bromodichloromethane.....	5.1	16	25	N.D.
n-Butylbenzene.....	9.6	31	25	N.D.
sec-Butylbenzene.....	6.0	19	25	N.D.
tert-Butylbenzene.....	6.1	19	25	N.D.
Carbon tetrachloride.....	3.0	9.4	25	N.D.
Chlorobenzene.....	6.2	20	25	N.D.
Chloroethane.....	13	40	25	N.D.
Chloroform.....	3.8	12	25	N.D.
Chloromethane.....	8.1	26	25	N.D.
2-Chlorotoluene.....	6.7	21	25	N.D.
4-Chlorotoluene.....	9.8	31	25	N.D.
Dibromochloromethane.....	6.2	20	25	N.D.
1,2-Dibromo-3-chloropropane...	11	34	25	N.D.
1,2-Dibromoethane.....	8.4	27	25	N.D.
1,2-Dichlorobenzene.....	5.4	17	25	N.D.
1,3-Dichlorobenzene.....	7.1	23	25	N.D.
1,4-Dichlorobenzene.....	7.6	24	25	N.D.
Dichlorodifluoromethane.....	11	35	25	N.D.
1,1-Dichloroethane.....	7.2	23	25	N.D.
1,2-Dichloroethane.....	2.3	7.5	25	N.D.
1,1-Dichloroethene.....	5.7	18	25	N.D.
cis-1,2-Dichloroethene.....	6.0	19	25	N.D.
trans-1,2-Dichloroethene.....	5.4	17	25	N.D.
1,2-Dichloropropane.....	3.6	12	25	N.D.
1,3-Dichloropropane.....	6.1	19	25	N.D.
2,2-Dichloropropane.....	9.3	30	25	N.D.
Di-Isopropyl-Ether.....	5.3	17	25	N.D.
Ethyl Benzene.....	3.5	11	25	N.D.

Key Environmental Services, Inc. W66 N215 Commerce Ct Cedarburg, WI 53012 Attention: Curt Hoffart	Client Project ID: Tecumseh East Sample Descript: Liquid: MeOH Blank Analysis Method: EPA 5030/8021 Lab Number: B909542-07	Sampled: Sep 29, 1999 Received: Sep 30, 1999 Analyzed: Oct 6, 1999 Revised Reported: Oct 21, 1999
--	---	--

WDNR VOLATILE ORGANIC COMPOUNDS (5030/8021)

Analyte	Method Detection Limit µg/L	Practical Quantitation Limit µg/L	WDNR Reporting Limit µg/L	Sample Results µg/L
Hexachlorobutadiene.....	16	51	25	N.D.
Isopropylbenzene.....	3.5	11	25	N.D.
p-Isopropyltoluene.....	9.8	31	25	N.D.
Methylene chloride.....	34	110	100	170B
Methyl-tert-Butyl-Ether.....	6.6	21	25	N.D.
Napthalene.....	7.4	24	25	N.D.
n-Propylbenzene.....	8.4	27	25	N.D.
1,1,2,2-Tetrachloroethane.....	8.9	28	25	N.D.
Tetrachloroethene.....	5.2	16	25	N.D.
Toluene.....	3.4	11	25	N.D.
1,2,3-Trichlorobenzene.....	8.5	27	25	N.D.
1,2,4-Trichlorobenzene.....	7.3	23	25	N.D.
1,1,1-Trichloroethane.....	5.6	18	25	N.D.
1,1,2-Trichloroethane.....	4.6	15	25	N.D.
Trichloroethene.....	6.2	20	25	N.D.
Trichlorofluoromethane.....	8.1	26	25	N.D.
1,2,4-Trimethylbenzene.....	5.0	16	25	N.D.
1,3,5-Trimethylbenzene.....	6.2	20	25	N.D.
Vinyl chloride.....	8.2	26	25	N.D.
Total Xylenes.....	6.6	21	25	N.D.

Analytes reported as N.D. were not present above the WDNR Reporting Limit IN WET WEIGHT as specified in Release News, Volume 4, Number 3, July 1994.

GREAT LAKES ANALYTICAL

 Kevin W. Keeley
 Laboratory Director

Please Note:
 B= The blank associated with this sample contained 170 ppb of Methylene Chloride.

CHAIN OF CUSTODY REPORT

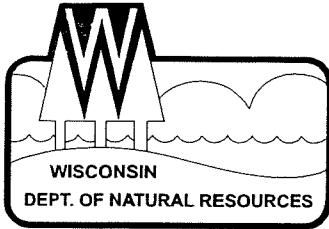
Client: Key Engineering Bill To: Accounting TAT: 5 DAY 4 DAY 3 DAY 2 DAY 1 DAY < 24 HRS.
 Address: W66 N215 Commerce Ct Address: _____ DATE RESULTS NEEDED: 10-7-99
Cedarburg, WI 53012 TEMPERATURE UPON RECEIPT: _____
 Report to: Curt Hoffert Phone #: () Fax #: () State & Program: _____ Phone #: () Fax #: () AIR BILL NO: CELA PUL

FIELD ID, LOCATION	DATE COLLECTED	TIME COLLECTED	SAMPLE MATRIX	PRESERVATIVES	NO. CONTAINERS	TYPE CONTAINERS	VOC	PCPN-Metals	Other Sol	LABORATORY ID NUMBER	SAMPLE CONTROL			
											CRACKED/BROKEN	IMPROPERLY SEALED	GOOD CONDITION	
1 GP-4/6-8	9/29/99	am	S	MeOH	3	2oz w/m	X	X	X	157015410				
2 GP-4/10-12					3		X	X	X					
3 GP-5/4-6					3		X	X	X					
4 GP-5/10-12					3		X	X	X					
5 GP-6/4-6					3		X	X	X					
6 GP-6/10-12					3		X	X	X					
7 MeOH Blank					1	2oz w/m	X							
8														
9														
10														

RELINQUISHED 9/29 RECEIVED 09/30 RELINQUISHED 09/30/99 RECEIVED 9/30/99
157015410 10:45 Kurtzman 10:45 Kurtzman Amy Lesoner

JG958196

File



State of Wisconsin \ DEPARTMENT OF NATURAL RESOURCES

Tommy G. Thompson, Governor
George E. Meyer, Secretary
William R. Selbig, Regional Director

Northeast Region Headquarters
1125 N. Military Ave., P.O. Box 10448
Green Bay, Wisconsin 54307-0448
Telephone 920-492-5800
FAX 920-492-5913
TDD 920-492-5912

October 15, 1998

Mr. Kerry DeKeyser
Tecumseh Products
1604 Michigan Avenue
New Holstein, WI 53061

Subject: SI Work Plan for Tecumseh Products - East Section Contaminated Fill Area, 1604 Michigan Avenue, New Holstein, Wisconsin, Calumet County, WDNR BRRS ID# 02-08-193776

Dear Mr. DeKeyser:

In response to our telephone conversation today, I need to correct the locations of the two additional borings that you should drill during the site investigation at this site. One should be located south of MW-1 while the second should be located west of MW-1. The borings should be located within a reasonable distance to MW-1.

Please call me at (920) 492-5868 if you have any questions.

Sincerely,

Jennifer Huffman, P.G.
Hydrogeologist
Remediation and Redevelopment Program

Cc: Curt Hoffart - Key Engineering, W66 N215 Commerce Court, Cedarbury, WI 53012

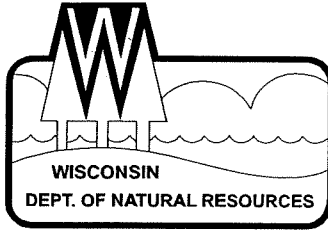
cc: Karl Roovers



Quality Natural Resources Management
Through Excellent Customer Service



File



State of Wisconsin \ DEPARTMENT OF NATURAL RESOURCES

Tommy G. Thompson, Governor
George E. Meyer, Secretary
William R. Selbig, Regional Director

Northeast Region Headquarters
1125 N. Military Ave., P.O. Box 10448
Green Bay, Wisconsin 54307-0448
Telephone 920-492-5800
FAX 920-492-5913
TDD 920-492-5912

October 12, 1998

Mr. Kerry DeKeyser
Tecumseh Products
1604 Michigan Avenue
New Holstein, WI 53061

Subject: Acknowledgement of Receipt/Site Investigation Work Plan, Tecumseh Products - East Section Contaminated Fill Area, 1604 Michigan Avenue, New Holstein, Wisconsin, Calumet County, WDNR BRRTS ID# 02-08-193776

Dear Mr. DeKeyser:

I have received and reviewed the above-referenced submittal from your environmental consultant, Key Engineering. However, staffing and workload levels do not allow me to provide you with detailed review and oversight at this time.

Therefore, this letter serves as your "**Notice to Proceed**" with investigation and remediation of the site. All actions must comply with all applicable statutes, program guidance, standards and Administrative Rules. This letter is not an approval of your work plans and reports. They will be filed as public records until the Department is able to review them, or until site remediation is completed.

In addition to the work proposed by your consultant and based on my discussions with them today, you should include the following:

1. Drill at least two additional soil borings, one located north of SB-6/MW-1 and one located west of SB-6/MW-1. All borings should be drilled within a reasonable distance to the contaminated fill found at SB-6/MW-1. These would be used in addition to the ones proposed by your consultant to identify whether fill material impacts detected at SB-6/MW-1 have impacted native soils beyond the known area of fill by defining the limits of fill.
2. Because of the unknown waste types present, samples should also be analyzed for PAHs and PCBs, in addition to VOCs and the eight RCRA metals.
3. Your consultant has indicated today that a starting date for the investigative field work has not been identified yet. We would like to observe and potentially collect samples during the drilling. Please notify us at least 5 working days prior to drilling activities.

Your consultant must follow the Wisconsin Administrative Code NR 700 series. It is very important that your consultant understands and meets the minimum standards established by the Department; however, you, as the responsible party, are ultimately responsible for the



Quality Natural Resources Management
Through Excellent Customer Service





W66 N215 Commerce Court
Cedarburg, Wisconsin 53012
(414) 375-4750
(800) 645-7365
Fax (414) 375-9680

RECEIVED
OCT 09 1998
LMD SOLID WASTE

October 6, 1998

Ms. Jennifer Huffman, Hydrogeologist
Remediation and Redevelopment Program
Wisconsin Department of Natural Resources
Northeast Region Headquarters
1125 North Military Avenue
Post Office Box 10448
Green Bay, Wisconsin 54307-0448

Reference: *Limited Site Investigation Work Plan*
Tecumseh Products Company-East Section Fill Area
1604 Michigan Avenue
New Holstein, Wisconsin
WDNR BRRTS #02-08-193776

KEY ENGINEERING GROUP, LTD.
File No. 0809004

Dear Ms. Huffman:

The purpose of this letter is to provide the Wisconsin Department of Natural Resources (WDNR) with a *Limited Site Investigation (LSI) Work Plan* for the above referenced site. This letter was prepared by Key Engineering Group, Ltd. (KEY) on behalf of Tecumseh Products Company (Tecumseh).

Purpose of Limited Site Investigation

Approximately 8 feet of fill material, which included gravel, paint chips, metal shavings, ash, and green stained soil, was encountered during a gasoline leaking underground storage tank (LUST) site investigation in the East Section (WDNR LUST ID# 03-08-01070). The fill material was encountered at soil boring SB-6 (MW-1), located near the northeast corner of the Tecumseh facility. Concentrations of benzene, ethylbenzene, xylenes, and trimethylbenzenes (TMBs) were detected in a sample of the fill material collected from 4 to 6 feet below ground surface (bgs). The benzene concentration exceeded the NR 720 generic residual contaminant level (GRCL) based on the protection of groundwater.

The WDNR notified Tecumseh in a July 29, 1998 letter to submit a work plan for the investigation of the fill material impacts. Additionally, the WDNR notified Tecumseh in an August 4, 1998 letter that management of this area of contamination in accordance with NR 700 through NR 728 is required.

Objective and Scope of Limited Site Investigation

The objectives of the LSI are to identify whether fill material impacts detected at SB-6/MW-1 have impacted native soils beyond the area of fill and to evaluate whether remedial action associated with the fill material impacts is warranted. Based on these objectives, the LSI will consist of advancing two (2) soil probes to a depth of approximately 15 feet bgs (groundwater is present at approximately 10 to 12 feet bgs at MW-1). The soil probes will be placed north and east of SB-6/MW-1 as depicted on Figure 1. Following collection of additional soil/fill material data, additional activities, such as the development of site-specific soil standards or the collection of additional groundwater samples from MW-1 may be warranted.

Soil Probes and Soil Sampling

The soil probes will be advanced with a van-mounted Geoprobe® unit. A 2-foot long stainless steel sampler with an acetate liner will be driven to the desired sampling depth using stainless steel rods and a hydraulic ram. Downhole soil probe equipment and associated tools will be washed prior to the initiation of field activities. The soil probe equipment will be decontaminated between each soil sampling interval to minimize the potential for cross-contamination. The decontamination procedure will consist of scrubbing the 2-foot stainless steel sampler with a brush and a soap and water Alconox® solution followed by one (1) tap water rinse after each sampling interval.

Soil samples will be classified in accordance with the Unified Soil Classification System (USCS). Soil boring logs will be completed by KEY to document the drilling method, sampling method, depth of the sample, sample recovery, the soil USCS classifications, soil moisture, color, field screening results, olfactory observations, and groundwater level observations.

A portion of each soil sample will be placed into a resealable plastic bag for field screening. The soil samples will be field screened for organic vapors using a model 580B Organic Vapor Meter (OVM) photoionization detector (PID) equipped with a 10.6 electron volt (eV) lamp, calibrated to isobutylene. The sealed bag will be shaken to release volatile organic vapors. The bag will then be slightly opened and the tip of the PID will be inserted into the headspace and the highest reading recorded. After field screening, two (2) soil samples collected from each soil probe from the unsaturated zone will be submitted to a WDNR certified laboratory for analysis of volatile organic compounds (VOCs) and eight (8) Resource Conservation and Recovery Act (RCRA) metals. At soil probe locations where fill material is encountered, one (1) sample collected from the fill material and one (1) sample collected from underlying native soil will be submitted for analysis. Three (3) soil samples will also be submitted for analysis of total organic carbon (TOC) to support potential evaluation of site-specific soil cleanup standards.

Following soil sample collection, the soil probes will be abandoned in accordance with NR 141, and WDNR borehole abandonment forms will be completed.

Site Investigation Letter Report Preparation

Following the completion of the LSI, a letter report documenting the results of the LSI will be prepared and submitted to the WDNR. The letter will include soil probe logs, a figure showing the

Ms. Jennifer Huffman
October 6, 1998
Page 3

locations of the soil probes, laboratory analytical results, results of field activities, and conclusions and recommendations.

Preliminary Schedule

Tecumseh will proceed with the identified LSI scope in October 1998.

Please call if you have any questions.

Sincerely,

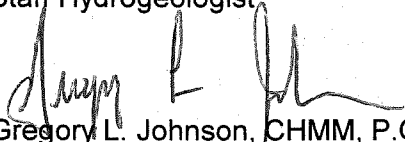
KEY ENGINEERING GROUP, LTD.



Rachel A. Ames
Staff Hydrogeologist



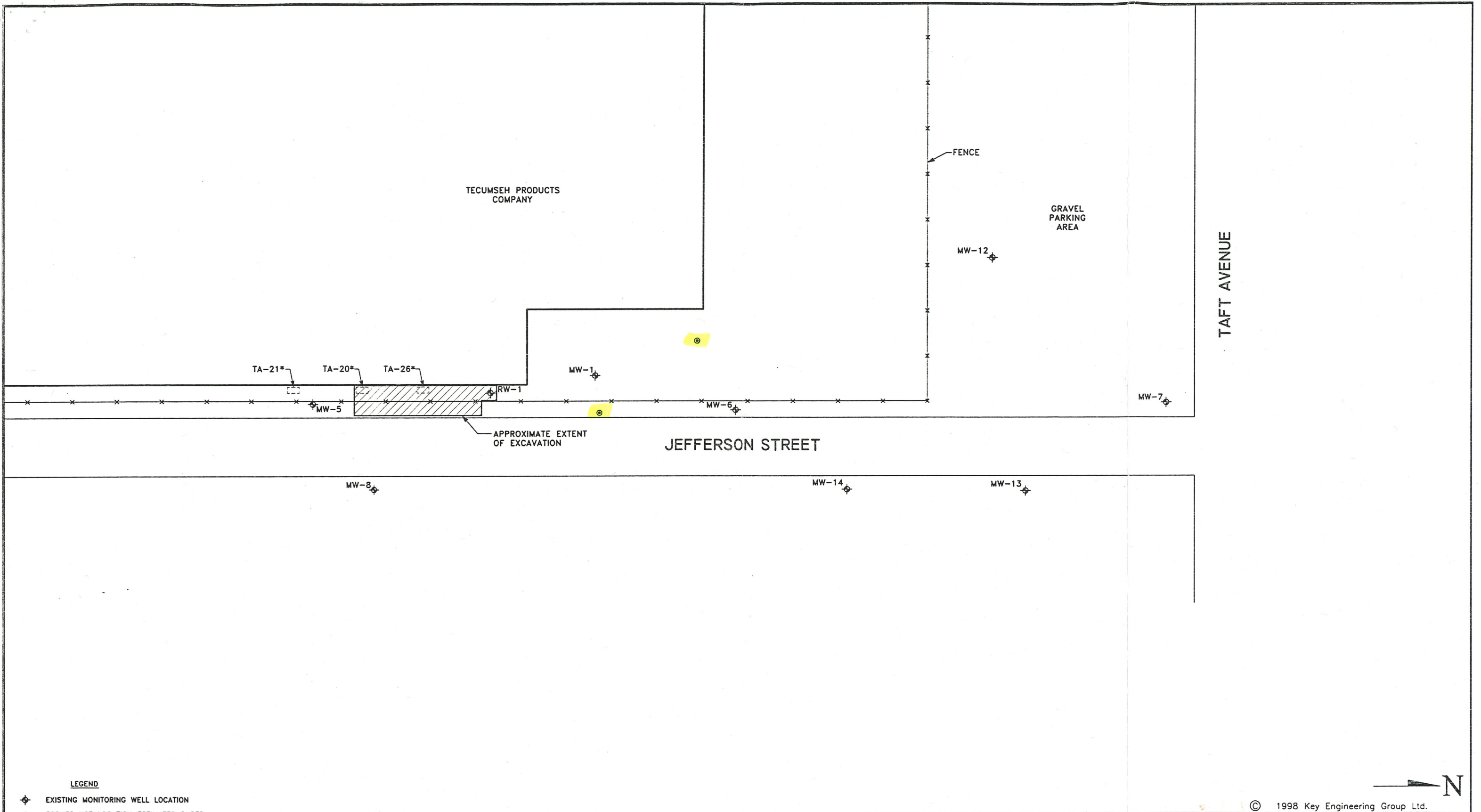
Curtis M. Hoffart, CHMM
Project Associate



Gregory L. Johnson, CHMM, P.G., P.E.
Manager of Technical Services

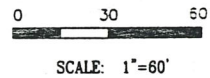
RAA/jml

cc: Mr. Kerry DeKeyser
Mr. Bruce McCuaig

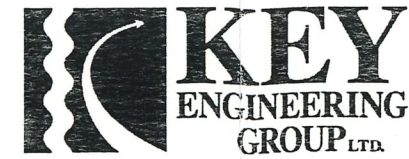


LEGEND

- ◆ EXISTING MONITORING WELL LOCATION
- FORMER UST LOCATION ESTIMATED BASED ON PREVIOUS DAMES & MOORE, LTD. DOCUMENTATION
- ⊙ PROPOSED SOIL PROBE LOCATION



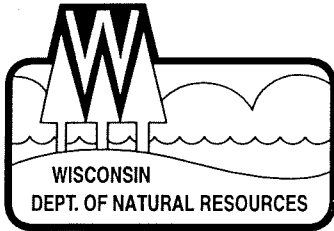
DRN. BY:	S.L.G.	DATE:	09/30/98
DSN. BY:	C.M.H.	FILE NO.:	0809004
CHK. BY:	C.M.H.	DWG. NO.:	08090042
REV. BY:	G.L.J.	SHEET NO.:	1



© 1998 Key Engineering Group Ltd.

**FIGURE 1
PROPOSED SOIL PROBE
LOCATIONS**

LIMITED SITE INVESTIGATION WORK PLAN
EAST SECTION FILL AREA
TECUMSEH PRODUCTS COMPANY
1604 MICHIGAN AVENUE
NEW HOLSTEIN, WISCONSIN



State of Wisconsin \ DEPARTMENT OF NATURAL RESOURCES

Tommy G. Thompson, Governor
George E. Meyer, Secretary
William R. Selbig, Regional Director

Northeast Regional Headquarters
Solid Waste Office
PO Box 10448, 1125 N. Military Ave.
Green Bay, Wisconsin 54307-0448
TELEPHONE 414-492-5916
FAX 414-492-5859
TDD 414-492-5812

August 4, 1998

Tecumseh Products
Kerry Dekeyser
1604 Michigan Ave.
New Holstein, WI 53061

SUBJECT: Reported Contamination at Tecumseh Products; 1604 Michigan Ave., Fill Area at
MW-1; New Holstein, WI
BRRTS CASE #02-08-193776

Dear Mr. DeKeyser:

The Wisconsin Department of Natural Resources has been notified of soil contamination at the above referenced location.

Based on the information received by the Department of Natural Resources, we believe you are responsible for restoring the environment at this site under Section 292.11, Wisconsin Stats., known as the hazardous substances spills law. Your responsibilities include investigating the extent of the contamination and then selecting and implementing the most appropriate remedial action. Enclosed is information to help you understand what you need to do to ensure your compliance with the spills law.

The purpose of this letter is threefold: 1) to describe your legal responsibilities, 2) to explain what you need to do to investigate and clean up the contamination, and 3) to provide you with information about cleanups, environmental consultants, possible financial assistance, and working cooperatively with the Department of Natural Resources.

Legal Responsibilities:

Your legal responsibilities are defined both in statute and in administrative codes. The hazardous substances spill law, Section 292.11 (3) Wisconsin Statutes, states:

- * **RESPONSIBILITY.** A person who possesses or controls a hazardous substance which is discharged or who causes the discharge of a hazardous substance shall take the actions necessary to restore the environment to the extent practicable and minimize the harmful effects from the discharge to the air, lands, or waters of the state.

Wisconsin Administrative Codes chapters NR 700 through NR 728 establish requirements for emergency and interim actions, public information, site investigations, design and operation of remedial action systems, and case closure. Chapter NR 708 includes provisions for immediate actions in response to limited contamination. Wisconsin Administrative Code chapter NR 140 establishes groundwater standards for contaminants that reach groundwater.

Steps to Take:

The longer contamination is left in the environment the farther it can spread and the more it may cost to

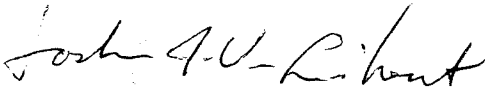
Information for Site Owners:

Enclosed is a list of environmental consultants and some important tips on selecting a consultant. Also enclosed are materials on controlling costs, understanding the cleanup process, and choosing a site cleanup method. This information has been prepared to help you understand your responsibilities and what your environmental consultant needs to do. Please read this information carefully.

If you have any questions about this letter or your responsibilities, please call Jennifer Huffman at (920) 492-5868.

Thank you for your cooperation.

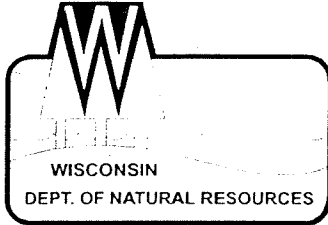
Sincerely,



Joshua J. Van Lieshout
Waste Management Specialist
Remediation and Redevelopment

Enclosure

cc: Curtis Hoffart; Key Environmental; W66 N215 Commerce Ct.; Cedarburg, WI 53012
Jennifer Huffman--WDNR
File



 State of Wisconsin \ DEPARTMENT OF NATURAL RESOURCES

Tommy G. Thompson, Governor
 George E. Meyer, Secretary
 William R. Selbig, Regional Director

Northeast Region Headquarters
 1125 N. Military Ave., P.O. Box 10448
 Green Bay, Wisconsin 54307-0448
 Telephone 920-492-5800
 FAX 920-492-5913
 TDD 920-492-5912

July 29, 1998

Mr. Kerry DeKeyser
 Tecumseh Products
 1604 Michigan Avenue
 New Holstein, WI 53061

Subject: Denial of Case Closure for Tecumseh Products - East Section, 1604 Michigan Ave., New Holstein, Wisconsin, Calumet County, WDNR BRRTS ID# 03-08-1070, PECFA Claim Number 53061-1153-04B

Dear Mr. DeKeyser:

I've reviewed the case closure request submitted by Key Environmental on your behalf for the site identified above. Based on my review, I can not forward the case to the Northeast Region Closure Committee at this time. To move this case towards closure you should do the following:

1. Submit information on how the soils and groundwater in the TA-21 area have been investigated and remediated. The tank closure assessment for this tank indicates that the tank had leaked and the soils below the tank bed and water table are contaminated. Based on the information I have, it appears that the soil in this area was not included in the excavated area for tanks TA-20 and TA-26. In addition, I do not have enough information to lead me to believe that the groundwater in the former tank area immediately downgradient of TA-21 was investigated. I know that MW-5 is in the general area but where is it located with respect to TA-21 and how far away is it?
2. Include the natural attenuation geochemical indicator parameters in the groundwater monitoring program to show whether natural attenuation is occurring at the site (by causing a reduction in mass and concentration of the contaminants). This is required as part of any groundwater monitoring program if a closure using natural attenuation as the final groundwater remedy is sought for the site.
3. Provide an estimated time that the groundwater will reach the groundwater quality standards in NR 140, Wis. Adm. Code, using natural attenuation as the final groundwater remedy and show that this is a reasonable period of time considering the criteria in NR 722.07, Wis. Adm. Code. This information is required for any natural attenuation closure for groundwater in NR 726.05(2)(b)2.
4. Include naphthalene in the final rounds of groundwater monitoring as required by the WDNR's April 12, 1994 correspondence. You should also include MW-14 in the monitoring program since recent results from the chlorinated contaminant investigation show that this well has been contaminated with MTBE above the NR 140 Preventive Action Limit (PAL).

Your consultant has been in touch with me about the urgent need for Department approval to biopile contaminated soils from the Tecumseh West Section (#03-08-1071) on the area of previously spread East Section soils. The results for the East Section (#03-08-1070) biopile soils showed that the excavated soil had been remediated to concentrations below the NR 720 RCLs for the PVOCs prior to spreading.



TABLE 1

UNDERGROUND STORAGE TANK IDENTIFICATION

TECUMSEH PRODUCTS CORPORATION
NEW HOLSTEIN, WISCONSIN

Tank Identification	Capacity	Product Contained	Date of Installation	Date of Removal
TA-1 <i>03-08-001091</i>	3,000 gallons	Xylene	1966	7/30/91
TA-2	3,000 gallons	Xylene (recycled solvent)	1966	<i>10/28/91</i>
TA-18	2,000 gallons	90% Unleaded Gasoline 10% Isopropyl Alcohol	~1966	7/30/91
TA-19 ¹	2,000 gallons	Unleaded Gasoline	~1966	
TA-20 ¹ <i>03-08-001090</i>	2,000 gallons	90% Unleaded Gasoline 10% Isopropyl Alcohol	~1967	<i>7/29/92</i>
TA-21	2,000 gallons	90% Unleaded Gasoline 10% Isopropyl Alcohol	~1967	<i>10/30/91</i>
TA-22 ¹	2,000 gallons	Kerosene	~1967	<i>7/29/92</i>
TA-23 <i>Clean Cls.</i>	1,000 gallons	Unleaded Gasoline	~1967	<i>7/31/92</i>
TA-24 <i>Clean Cls.</i>	1,000 gallons	Unleaded Gasoline	1956	~1989
TA-26 <i>03-08-001090</i>	300 gallons	Unleaded Gasoline	1967	7/30/91
¹ UST essential to operations at Tecumseh New Holstein facility.				