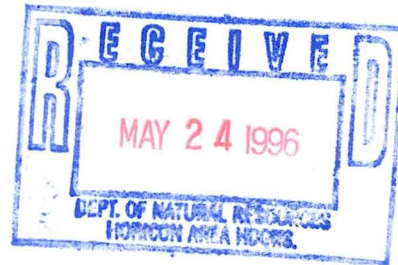


**RECEIVED**  
JUL 21 2000  
S DIVISION



**Phase II Geoprobe  
Investigation**

**Evans Property  
Markesan, Wisconsin**

**November 22, 1995**

November 22, 1995  
(COM810037)

Ms. Joan Ballweg  
City of Markesan  
77 John Street  
Markesan, Wisconsin 53946

RE: Phase II Geoprobe Investigation of the Evans Property, 77 John Street, Markesan,  
Wisconsin

Dear Ms. Ballweg:

Per your request, Northern Environmental performed a Phase II Environmental Site Assessment (ESA) at the vacant lot labeled Out Lot 1 on the Greenlake County Certified Survey Map No. 2094, located in the City of Markesan, Wisconsin (Figure 1). The site will be referred to as the "Property" in the remainder of this letter report.

On October 20, 1995, a 7,000 gallon fuel oil tank was removed from the Property. Contaminated soil was identified during the UST removal. The City of Markesan is evaluating the purchase of the Property. Part of the evaluation is the completion of a Phase II environmental audit. The Phase II ESA consisted of installing eight Geoprobe borings near and around the former tank location (Figure 2). Northern Environmental supervised the Geoprobe work performed by Briohn Environmental on November 1, 1995.

The soil and ground-water samples collected from the Geoprobe borings were submitted for diesel range organics (DRO) and petroleum volatile organic compounds (PVOCs) analyses at U.S. Analytical Laboratory (WI Certification #445027660). Tables 1 and 2 summarize the results. Regulatory clean-up standards for DRO contamination in soil have been established in NR720 at 100 mg/kg. Based on the analytical results of soil samples collected during the geoprobe work, samples S5, S20, and S25 contain concentrations of DRO in excess of clean-up standards.

Regulatory clean-up standards have also been established for ground water in NR140. A Wisconsin Department of Natural Resources (WDNR) preventive action limit (PAL) and enforcement standards (ES) has been established for several volatile organic compounds (VOCs) of which PVOCs are a part. If the concentration of a compound exceeds its PAL, the WDNR is apt to require additional investigation. The results of samples from ground water at this site do not indicate any concentrations of PVOCs above their respective PAL. However, the ground water does indicate the presence of significant DRO concentrations (up to 34,000

micrograms per liter  $\mu\text{g/l}$ ). Although there is no standard for DRO in ground water, the presence of up to 34,000  $\mu\text{g/l}$  typically prompts the WDNR to require additional investigation and clean-up. To summarize the analytical results, they indicate DRO contamination in both the soil and ground water at the Property. Additional work will be required to clean-up the contaminant plumes which have been identified (Figure 3).

These plumes are only estimated and are used to determine the approximate volume of soils and ground water impacted with fuel oil constituents. Northern Environmental estimates that a total of 3,700 cubic yards of soil is impacted with fuel oil contamination, with approximately 1,000 cubic yards being located near the former tank area and trenched area. Also, there are approximately 750,000 gallons of impacted ground water on and downgradient of the Property.

Northern Environmental recommends that a remedial action plan be developed. We would recommend excavating approximately 1,000 cubic yards of highly impacted soil in the former tank area to be further treated possibly offsite by thin spreading at the city landfill. Also, three monitoring wells should be installed for future use as recovery wells to pump and treat impacted ground water at the Property.

We trust this information meets your needs. Please feel free to call with questions.

Sincerely,

**Northern Environmental  
Technologies, Incorporated**



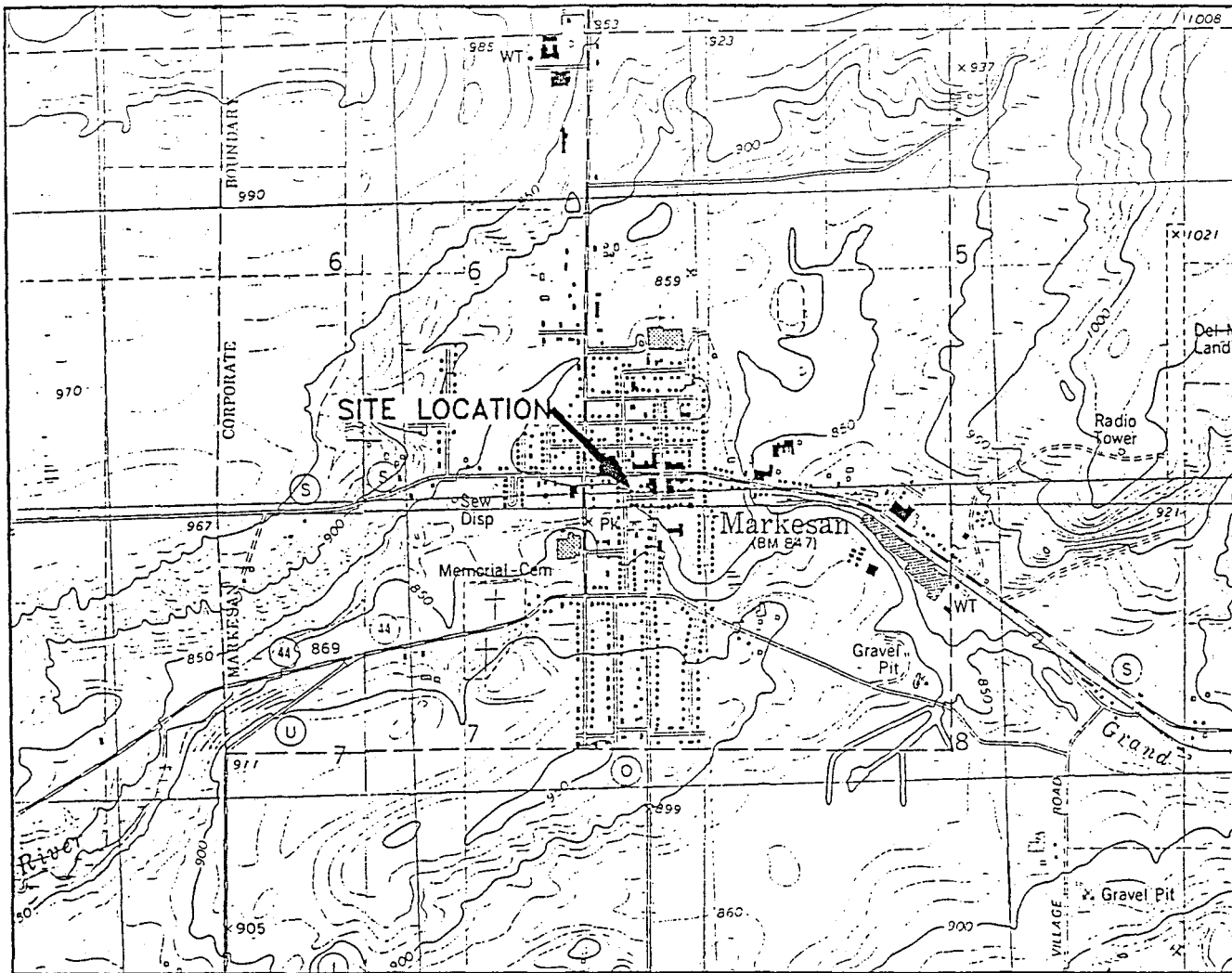
Stacy D. Cernohous E.I.T.  
Environmental Engineer II



Marty L. Koopman  
Senior Project Manager

SCS

© 1995 Northern Environmental Technologies, Inc.



2748

SCALE 1" = 2000'



CONTOUR INTERVAL 10 FEET  
NATIONAL GEODETIC VERTICAL DATUM OF 1929



BASE MAP SOURCE: USGS MARKESAN, WISCONSIN 7.5 MINUTE QUADRANGLE (REVISED 1980)

QUADRANGLE LOCATION

DRAWN BY: JJR PROJECT: USP820032 DATE: 11/22/95

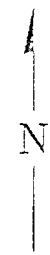
FIGURE 1  
SITE LOCATION AND LOCAL TOPOGRAPHY  
MARKESAN CITY HALL  
MARKESAN, WISCONSIN

REVISION  
DATE:

THIS DRAWING AND ALL INFORMATION CONTAINED THEREON IS THE PROPERTY OF NORTHERN ENVIRONMENTAL, INCORPORATED AND SHALL NOT BE COPIED OR USED EXCEPT FOR THE PURPOSE FOR WHICH IT IS EXPRESSLY FURNISHED. THE DRAWING AND ANY COPIES THEREOF SHALL BE RETURNED TO THE OWNER ON DEMAND.

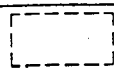
**▲ Northern Environmental**  
Hydrologists • Engineers • Geologists

FOR: U.S. PETROLEUM



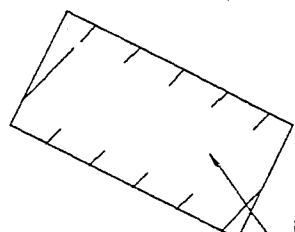
LOT 3

OUTLOT 1



CONCRETE  
RETAINING WALL

LOT 6



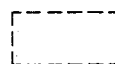
RURAL  
INSURANCE

AFTER FIVE  
NIGHTCLUB  
(LOT 1)

MAIN STREET

WATER STREET

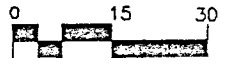
LEGEND



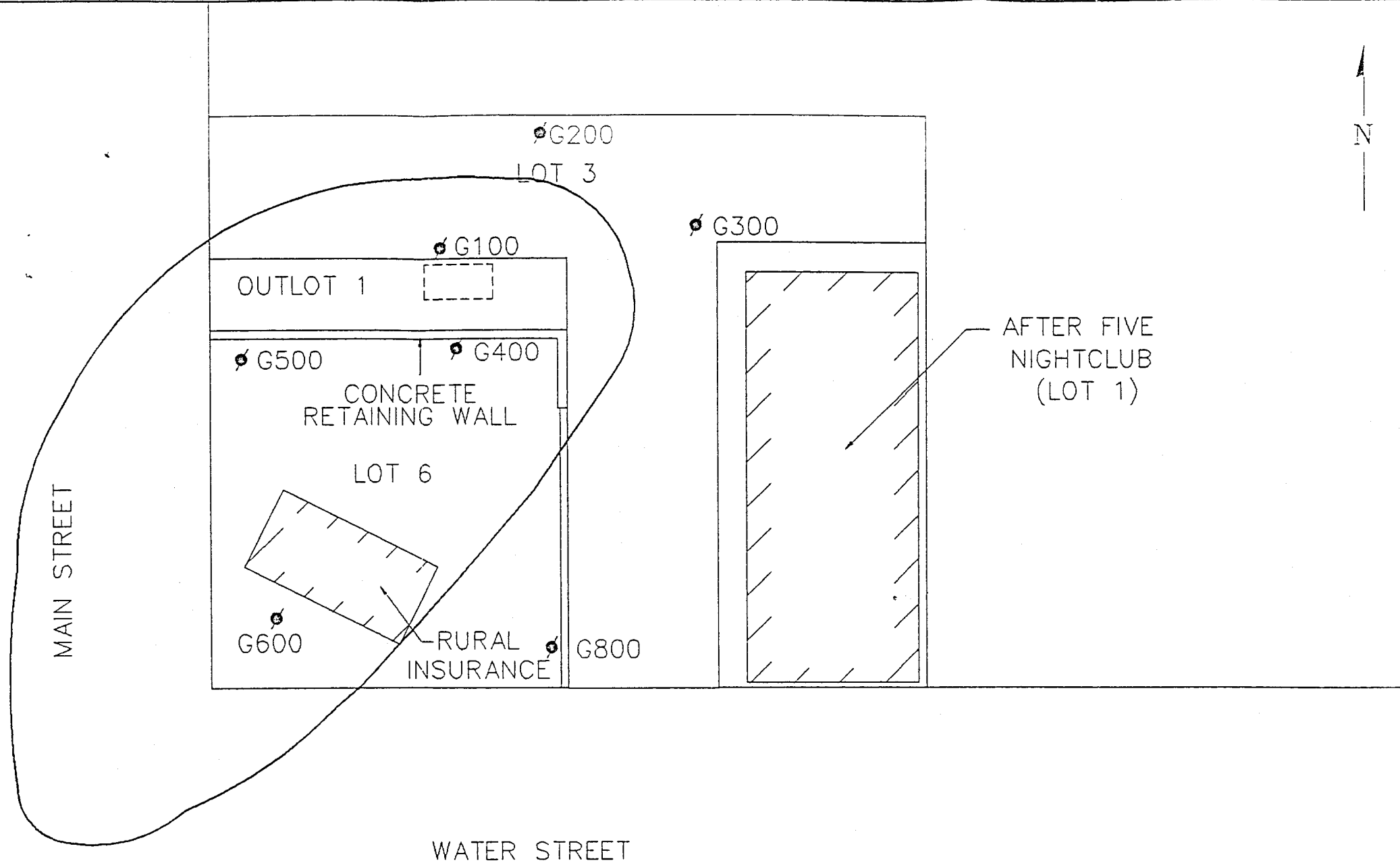
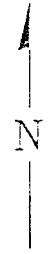
FORMER UST

SCALE




1" = 30'



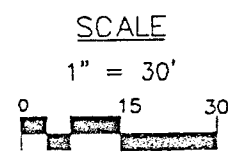
DRAWN BY: JJR	PROJECT: COM810037	DATE: 11/22/95	<p>FIGURE 2 SITE LAYOUT EVANS PROPERTY MARKESAN, WISCONSIN</p>
REVISION DATE:	<p>THIS DRAWING AND ALL INFORMATION CONTAINED THEREIN IS THE PROPERTY OF NORTHERN ENVIRONMENTAL INCORPORATED AND SHALL NOT BE COPIED OR USED EXCEPT FOR WHICH IT IS EXPRESSLY FURNISHED. THE DRAWING AND ANY COPIES THEREOF SHALL BE RETURNED TO THE OWNER ON DEMAND.</p>		
<p>▲ Northern Environmental Hydrologists - Engineers - Geologists</p>			<p>FOR: CITY OF MARKESAN</p>



LEGEND

-  FORMER UST
-  GEOPROBE LOCATION
-  ESTIMATED DRO CONTAMINANT PLUME

⊙ G700




DRAWN BY: JJR	PROJECT: COM810037	DATE: 1/22/95
REVISION DATE:	THIS DRAWING AND ALL INFORMATION CONTAINED THEREON IS THE PROPERTY OF NORTHERN ENVIRONMENTAL INCORPORATED AND SHALL NOT BE COPIED OR USED EXCEPT FOR WHICH IT IS EXPRESSLY FURNISHED. THE DRAWING AND ANY COPIES THEREOF SHALL BE RETURNED TO THE OWNER ON DEMAND.	
 Northern Environmental Hydrologists - Engineers - Geologists		

FIGURE 3  
SITE LAYOUT  
EVANS PROPERTY  
MARKESAN, WISCONSIN  
FOR: CITY OF MARKESAN

Table 1 Summary of Soil Field Screening and Lab Analysis, Markesan City Hall, Markesan, Wisconsin

Sample Number	Location	Depth (fbg)	Date Collected	Time Screened	PID Response (iui)	Odor	Soil Description	Soil Type (USCS Classification)	Relative Moisture Content	Laboratory Analysis Results	
										DRO (mg/kg)	GRO (mg/kg)
S5	G100	10-12	11/01/95	9:00	72	Strong	Medium Sand	SP	Wet	3700	---
S10	G200	10-12	11/01/95	9:50	0	None	Silty Clay with Sand	CL	Wet	<10	---
S15	G300	8-10	11/01/95	10:40	0	None	Medium Sand	SP	Moist	<10	---
S20	G400	6-8	11/01/95	12:00	477	Strong	Medium Sand	SP	Moist	4800	---
S25	G500	6-8	11/01/95	12:50	126	Strong	Medium Sand	SP	Moist	190	---
S30	G700	2-4	11/01/95	14:10	4	Slight	Silty Clay	CL	Moist	<10	---
S36	G800	6-8	11/01/95	15:20	1	None	Medium Sand	SP	Wet	<10	---

**Note:**

UST = underground storage tank  
 fbg = feet below grade  
 iui = instrument units as isobutylene  
 USCS = United Soil Classification System  
 DRO = diesel range organics  
 GRO = gasoline range organics  
 mg/kg = milligram per kilogram

Table 2 Laboratory Analytical Results of Ground-Water Sampling for October 1, 1995, Markesan City Hall, Markesan, Wisconsin

Parameter	WDNR Preventative Action Limit (PAL) (µg/l)	WDNR Enforcement Standard (ES) (µg/l)	W100	W300	W500	W700	W800
DRO	NE	NE	34000	---	20000	<100	280
GRO	NE	NE	---	---	---	---	---
Lead	1.5	15	---	---	---	---	---
<b>VOCs Detected</b>							
Benzene	0.5	5	<0.26	<0.26	0.37	<0.26	<0.26
Ethylbenzene	140	700	4.0	<0.32	1.4	<0.32	<0.32
MTBE	12	60	<0.22	<0.22	<0.22	<0.22	<0.22
Toluene	68.6	343	<0.69	<0.69	<0.69	<0.69	<0.69
1,2,4-Trimethylbenzene	NE	NE	58	0.71	11	<0.57	<0.57
1,3,5-Trimethylbenzene	NE	NE	12	<0.57	<0.57	<0.57	<0.57
Xylenes	124	620	9.1	<0.90	1.6	<0.90	<0.90

**Note:**

GRO = Gasoline Range Organics

DRO = Diesel Range Organics

MTBE = Methyl-Tertiary-Butyl-Ether

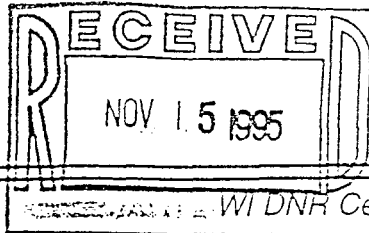
VOCs = Volatile Organic Compounds

µg/l = micrograms per liter

NE = Not established by Wisconsin Department of Natural Resources (WDNR)

--- = Not analyzed





**Analytical Laboratory**

425 S. Washington St. Combined Locks, WI 54113  
Phone 414-735-8298

Stacy Cernohous  
Northern Environmental  
324 E. Main St.  
Waupun, WI 53963

Project #: COM810037  
Project : Markesan  
Sample ID: W1  
Lab Code: 5011996A  
Sample Type: Water  
Sample Date: 01-Nov-95

Report Date: 10-Nov-95

Test	Result	MDL	PQL	Unit	pH	Date Ext/Digested	Date Analyzed:	Analyzed By:	QC Code
MODIFIED DRO WDNR JULY 93	34000	330	1000	UG/L	6.4	07-Nov-95	08-Nov-95	C. Rotar	1
PVOC SW846 8020					1.9		04-Nov-95	R. Everson	
Benzene	< 0.26	0.082	0.26	UG/L					1
Ethylbenzene	4.0	0.1	0.32	UG/L					1
MTBE	< 0.22	0.069	0.22	UG/L					1
Toluene	< 0.69	0.22	0.69	UG/L					1
1,2,4-Trimethylbenzene	58	0.18	0.57	UG/L					1
1,3,5-Trimethylbenzene	12	0.18	0.57	UG/L					1
Xylenes	-	9.1	0.28	UG/L					1
Fluorobenzene Surrogate	101			% Rec.					

MDL = Method Detection Limit

PQL = Practical Quantitation Limit

ND = Compound Not Detected

PVOC analysis detected unidentified peaks.

**QC SUMMARY**

CODE:

1 All laboratory QC requirements were met for this sample.

Authorized Signature

**Analytical Laboratory**

 425 S. Washington St. Combined Locks, WI 54113  
 Phone 414-735-8298

WI DNR Certified Lab #445027660

 Stacy Cernohous  
 Northern Environmental  
 324 E. Main St.  
 Waupun, WI 53963

 Project #: COM810037  
 Project : Markesan  
 Sample ID: W300  
 Lab Code: 5011996E  
 Sample Type: Water  
 Sample Date: 01-Nov-95

Report Date: 09-Nov-95

Test	Result	MDL	PQL	Unit	pH	Date Ext/Digested	Date Analyzed:	Analyzed By:	QC Code
PVOC									
SW846 8020					1.6		04-Nov-95	R. Everson	
Benzene	< 0.26	0.082	0.26	UG/L					1
Ethylbenzene	< 0.32	0.1	0.32	UG/L					1
MTBE	< 0.22	0.069	0.22	UG/L					1
Toluene	< 0.69	0.22	0.69	UG/L					1
1,2,4-Trimethylbenzene	0.71	0.18	0.57	UG/L					1
1,3,5-Trimethylbenzene	< 0.57	0.18	0.57	UG/L					1
Xylenes	< 0.90	0.28	0.9	UG/L					1
Fluorobenzene Surrogate	103			% Rec.					

MDL = Method Detection Limit

PQL = Practical Quantitation Limit

ND = Compound Not Detected

PVOC analysis detected unidentified peaks.

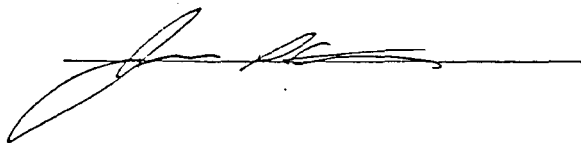
**QC SUMMARY**

CODE:

1

All laboratory QC requirements were met for this sample.

Authorized Signature



## Analytical Laboratory

425 S. Washington St. Combined Locks, WI 54113  
Phone 414-735-8298

WI DNR Certified Lab #445027660

Stacy Cernohous  
Northern Environmental  
324 E. Main St.  
Waupun, WI 53963

Project #: COM810037  
Project : Markesan  
Sample ID: W500  
Lab Code: 5011996B  
Sample Type: Water  
Sample Date: 01-Nov-95

Report Date: 10-Nov-95

Test	Result	MDL	PQL	Unit	pH	Date Ext/Digested	Date Analyzed:	Analyzed By:	QC Code
MODIFIED DRO WDNR JULY 93	20000	330	1000	UG/L	5.5	07-Nov-95	08-Nov-95	C. Rotar	1
PVOC SW846 8020					1.4		04-Nov-95	R. Everson	
Benzene	0.37	0.082	0.26	UG/L					1
Ethylbenzene	1.4	0.1	0.32	UG/L					1
MTBE	< 0.22	0.069	0.22	UG/L					1
Toluene	< 0.69	0.22	0.69	UG/L					1
1,2,4-Trimethylbenzene	11	0.18	0.57	UG/L					1
1,3,5-Trimethylbenzene	< 0.57	0.18	0.57	UG/L					1
Xylenes	1.6	0.28	0.9	UG/L					1
Fluorobenzene Surrogate	-	102		% Rec.					

MDL = Method Detection Limit

PQL = Practical Quantitation Limit

ND = Compound Not Detected

PVOC analysis detected unidentified peaks.

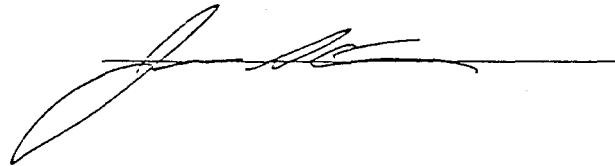
### QC SUMMARY

CODE:

1

All laboratory QC requirements were met for this sample.

Authorized Signature



## Analytical Laboratory

425 S. Washington St. Combined Locks, WI 54113  
Phone 414-735-8298

WI DNR Certified Lab #445027660

Stacy Cernohous  
Northern Environmental  
324 E. Main St.  
Waupun, WI 53963

Project #: COM810037  
Project : Markesan  
Sample ID: W700  
Lab Code: 5011996C  
Sample Type: Water  
Sample Date: 01-Nov-95

Report Date: 10-Nov-95

Test	Result	MDL	PQL	Unit	pH	Date Ext/Digested	Date Analyzed:	Analyzed By:	QC Code
MODIFIED DRO WDNR JULY 93	< 100	33	100	UG/L	5.5	07-Nov-95	08-Nov-95	C. Rotar	1
PVOC									
SW846 8020					1.3		04-Nov-95	R. Everson	
Benzene	< 0.26	0.082	0.26	UG/L					1
Ethylbenzene	< 0.32	0.1	0.32	UG/L					1
MTBE	< 0.22	0.069	0.22	UG/L					1
Toluene	< 0.69	0.22	0.69	UG/L					1
1,2,4-Trimethylbenzene	< 0.57	0.18	0.57	UG/L					1
1,3,5-Trimethylbenzene	< 0.57	0.18	0.57	UG/L					1
Xylenes	< 0.90	0.28	0.9	UG/L					1
Fluorobenzene Surrogate		102		% Rec.					

MDL = Method Detection Limit

PQL = Practical Quantitation Limit

ND = Compound Not Detected

PVOC analysis detected unidentified peaks.

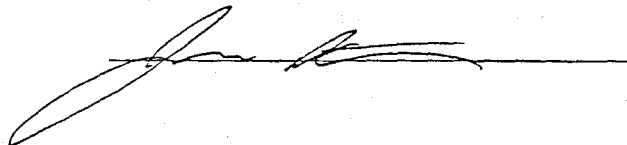
### QC SUMMARY

CODE:

1

All laboratory QC requirements were met for this sample.

Authorized Signature



**Analytical Laboratory**

 425 S. Washington St. Combined Locks, WI 54113  
 Phone 414-735-8298

WI DNR Certified Lab #445027660

 Stacy Cernohous  
 Northern Environmental  
 324 E. Main St.  
 Waupun, WI 53963

 Project #: COM810037  
 Project : Markesan  
 Sample ID: W800  
 Lab Code: 5011996D  
 Sample Type: Water  
 Sample Date: 01-Nov-95

Report Date: 10-Nov-95

Test	Result	MDL	PQL	Unit	pH	Date Ext/Digested	Date Analyzed:	Analyzed By:	QC Code
MODIFIED DRO WDNR JULY 93	280	51	160	UG/L	6.0	07-Nov-95	08-Nov-95	C. Rotar	1,2
PVOC SW846 8020					1.4		04-Nov-95	R. Everson	
Benzene	< 0.26	0.082	0.26	UG/L					1
Ethylbenzene	< 0.32	0.1	0.32	UG/L					1
MTBE	< 0.22	0.069	0.22	UG/L					1
Toluene	< 0.69	0.22	0.69	UG/L					1
1,2,4-Trimethylbenzene	< 0.57	0.18	0.57	UG/L					1
1,3,5-Trimethylbenzene	< 0.57	0.18	0.57	UG/L					1
Xylenes	< 0.90	0.28	0.9	UG/L					1
Fluorobenzene Surrogate	102			% Rec.					

MDL = Method Detection Limit

PQL = Practical Quantitation Limit

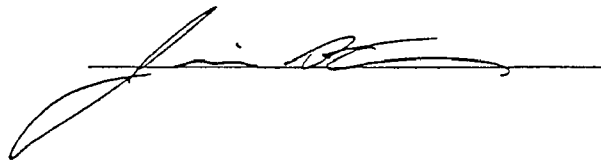
ND = Compound Not Detected

PVOC analysis detected unidentified peaks.

**QC SUMMARY**
**CODE:**

- 1 All laboratory QC requirements were met for this sample.
- 2 DRO chromatogram indicates atypical diesel contamination.

Authorized Signature



**Analytical Laboratory**

 425 S. Washington St. Combined Locks, WI 54113  
 Phone 414-735-8298

WI DNR Certified Lab #445027660

 Stacy Cernohous  
 Northern Environmental  
 324 E. Main St.  
 Waupun, WI 53963

 Project #: COM810037  
 Project : Markesan  
 Sample ID: S5  
 Lab Code: 5011996F  
 Sample Type: Soil  
 Sample Date: 01-Nov-95

Report Date: 09-Nov-95

Test	Result	MDL	PQL	Unit	Date Ext/Dig/Pres	Date Analyzed:	Analyzed By:	QC Code
TOTAL SOLIDS	89.6			%		03-Nov-95	B. Rettler	1
MODIFIED DRO WDNR JULY 93	3700	66	200	MG/KG	03-Nov-95	08-Nov-95	C. Rotar	1

MDL = Method Detection Limit

PQL = Practical Quantitation Limit

ND = Compound Not Detected

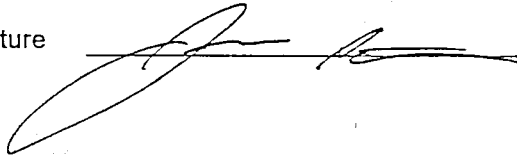
**QC SUMMARY**

CODE:

1

All laboratory QC requirements were met for this sample.

Authorized Signature



**Analytical Laboratory**

 425 S. Washington St. Combined Locks, WI 54113  
 Phone 414-735-8298

WI DNR Certified Lab #445027660

 Stacy Cernohous  
 Northern Environmental  
 324 E. Main St.  
 Waupun, WI 53963

 Project #: COM810037  
 Project : Markesan  
 Sample ID: S10  
 Lab Code: 5011996G  
 Sample Type: Soil  
 Sample Date: 01-Nov-95

Report Date: 09-Nov-95

Test	Result	MDL	PQL	Unit	Date Ext/Dig/Pres	Date Analyzed:	Analyzed By:	QC Code
TOTAL SOLIDS	90.9			%		03-Nov-95	B. Rettler	1
MODIFIED DRO WDNR JULY 93	< 10	3.3	10	MG/KG	03-Nov-95	05-Nov-95	C. Rotar	1

MDL = Method Detection Limit

PQL = Practical Quantitation Limit

ND = Compound Not Detected

**QC SUMMARY**

CODE:

1

All laboratory QC requirements were met for this sample.

Authorized Signature



**Analytical Laboratory**

 425 S. Washington St. Combined Locks, WI 54113  
 Phone 414-735-8298

WI DNR Certified Lab #445027660

 Stacy Cernohous  
 Northern Environmental  
 324 E. Main St.  
 Waupun, WI 53963

 Project #: COM810037  
 Project : Markesan  
 Sample ID: S15  
 Lab Code: 5011996H  
 Sample Type: Soil  
 Sample Date: 01-Nov-95

Report Date: 09-Nov-95

Test	Result	MDL	PQL	Unit	Date Ext/Dig/Pres	Date Analyzed:	Analyzed By:	QC Code
TOTAL SOLIDS	86.1			%		03-Nov-95	B. Rettler	1
MODIFIED DRO WDNR JULY 93	< 10	3.3	10	MG/KG	03-Nov-95	06-Nov-95	C. Rotar	1

MDL = Method Detection Limit

PQL = Practical Quantitation Limit

ND = Compound Not Detected

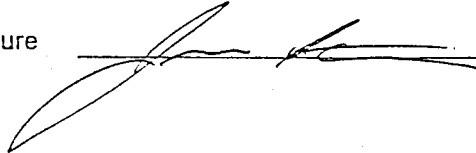
**QC SUMMARY**

CODE:

1

All laboratory QC requirements were met for this sample.

Authorized Signature





**Analytical Laboratory**

 425 S. Washington St. Combined Locks, WI 54113  
 Phone 414-735-8298

WI DNR Certified Lab #445027660

 Stacy Cernohous  
 Northern Environmental  
 324 E. Main St.  
 Waupun, WI 53963

 Project #: COM810037  
 Project : Markesan  
 Sample ID: S20  
 Lab Code: 5011996I  
 Sample Type: Soil  
 Sample Date: 01-Nov-95

Report Date: 09-Nov-95

Test	Result	MDL	PQL	Unit	Date Ext/Dig/Pres	Date Analyzed:	Analyzed By:	QC Code
TOTAL SOLIDS	85.8			%		03-Nov-95	B. Rettler	1
MODIFIED DRO WDNR JULY 93	4800	66	200	MG/KG	03-Nov-95	07-Nov-95	C. Rotar	1

MDL = Method Detection Limit

PQL = Practical Quantitation Limit

ND = Compound Not Detected

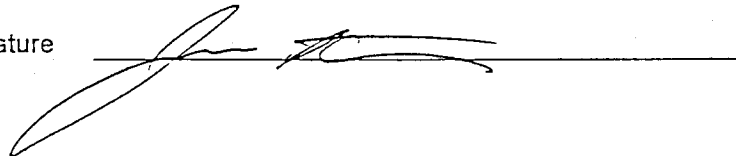
**QC SUMMARY**

CODE:

1

All laboratory QC requirements were met for this sample.

Authorized Signature



**Analytical Laboratory**

425 S. Washington St. Combined Locks, WI 54113  
Phone 414-735-8298

WI DNR Certified Lab #445027660

Stacy Cernohous  
Northern Environmental  
324 E. Main St.  
Waupun, WI 53963

Project #: COM810037  
Project : Markesan  
Sample ID: S25  
Lab Code: 5011996J  
Sample Type: Soil  
Sample Date: 01-Nov-95

Report Date: 09-Nov-95

Test	Result	MDL	PQL	Unit	Date Ext/Dig/Pres	Date Analyzed:	Analyzed By:	QC Code
TOTAL SOLIDS	83.6			%		03-Nov-95	B. Rettler	1
MODIFIED DRO WDNR JULY 93	190	3.3	10	MG/KG	03-Nov-95	05-Nov-95	C. Rotar	1

MDL = Method Detection Limit

PQL = Practical Quantitation Limit

ND = Compound Not Detected

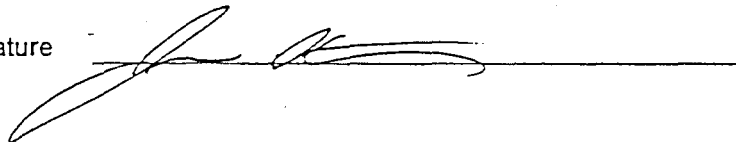
**QC SUMMARY**

CODE:

1

All laboratory QC requirements were met for this sample.

Authorized Signature



**Analytical Laboratory**

 425 S. Washington St. Combined Locks, WI 54113  
 Phone 414-735-8298

WI DNR Certified Lab #445027660

 Stacy Cernohous  
 Northern Environmental  
 324 E. Main St.  
 Waupun, WI 53963

 Project #: COM810037  
 Project : Markesan  
 Sample ID: S30  
 Lab Code: 5011996K  
 Sample Type: Soil  
 Sample Date: 01-Nov-95

Report Date: 09-Nov-95

Test	Result	MDL	PQL	Unit	Date Ext/Dig/Pres	Date Analyzed:	Analyzed By:	QC Code
TOTAL SOLIDS	69.0			%		03-Nov-95	B. Rettler	1
MODIFIED DRO WDNR JULY 93	< 10	3.3	10	MG/KG	03-Nov-95	06-Nov-95	C. Retar	1

MDL = Method Detection Limit

PQL = Practical Quantitation Limit

ND = Compound Not Detected

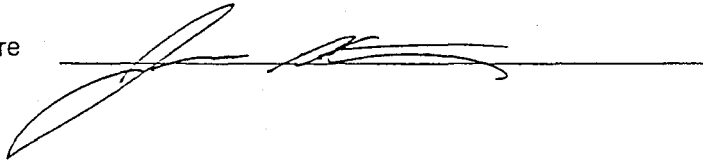
**QC SUMMARY**

CODE:

1

All laboratory QC requirements were met for this sample.

Authorized Signature



**Analytical Laboratory**

 425 S. Washington St. Combined Locks, WI 54113  
 Phone 414-735-8298

WI DNR Certified Lab #445027660

 Stacy Cernohous  
 Northern Environmental  
 324 E. Main St.  
 Waupun, WI 53963

 Project #: COM810037  
 Project : Markesan  
 Sample ID: S36  
 Lab Code: 5011996L  
 Sample Type: Soil  
 Sample Date: 01-Nov-95

Report Date: 09-Nov-95

Test	Result	MDL	PQL	Unit	Date Ext/Dig/Pres	Date Analyzed:	Analyzed By:	QC Code
TOTAL SOLIDS	90.8			%		03-Nov-95	B. Rettler	1
MODIFIED DRO WDNR JULY 93	< 10	3.3	10	MG/KG	03-Nov-95	06-Nov-95	C. Rotar	1

MDL = Method Detection Limit

PQL = Practical Quantitation Limit

ND = Compound Not Detected

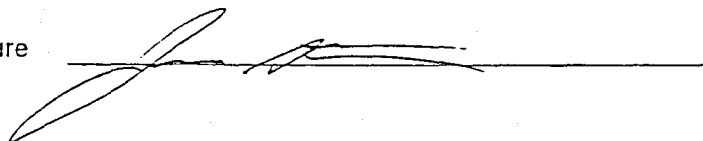
## QC SUMMARY

CODE:

1

All laboratory QC requirements were met for this sample.

Authorized Signature



W Waupun

1214 W. Venture Court  
Mequon, WI 53092  
414-241-3133  
FAX 414-241-8222

372 West County Road D  
New Brighton, MN 55112  
612-635-9100  
FAX 612-635-0643

952 Circle Drive  
Green Bay, WI 54304  
414-592-8400  
FAX 414-592-8444

REQUEST FOR ANALYSIS

No 4394

Check office originating request

5011996

COM 810037

Project No: <u>5011996 (5011996-20032)</u>		Task No:		Laboratory: <u>US Analytical</u>			Sample Integrity - To be completed by receiving lab													
Project Location: (city) <u>Markesan</u>		Wisconsin DNR Certification #: <u>445027660</u>			Seal intact upon receipt <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No			Method of Shipment <u>Dunham</u>												
Project Manager: <u>MLK</u>		Laboratory Contact: <u>Mike Ritter</u>			Price Quote:			Contents Temperature <u>ice</u> °C Refrigerator No:												
Sampler (name): <u>Stacy Cernohous</u>		TURNAROUND TIME REQUIRED <input type="checkbox"/> Normal <input checked="" type="checkbox"/> Rush			ANALYSES REQUESTED															
Sampler (signature): <u>Stacy Cernohous</u>																				
Sampling Date(s): <u>11-1-95</u>		Date Needed:			DRO (WI Modified Method) <input type="checkbox"/> GRO (WI Modified Method) <input type="checkbox"/> BETX (EPA Method 8020) <input type="checkbox"/> PVOC (EPA Method 8021) <input type="checkbox"/> VOC (EPA Method 8021) <input type="checkbox"/> PAH (EPA Method ) <input type="checkbox"/> Pb (EPA Method ) <input type="checkbox"/> PID															
Reports to be Sent to: <u>Stacy</u>		Description																		
Lab ID No.	Sample No.	Collection		No. of Containers, Size and Type	Description			Preservative	ANALYSES REQUESTED											
		Date	Time		Water	Soil	Other		DRO	GRO	BETX	PVOC	VOC	PAH	Pb					
5011910A	W100	11-1		1 liter 3 (40 ml) vials	X			NCl <sub>2</sub> , Ice	X											
B	W500				X				X											
C	W700				X				X											
D	W800				X				X											
E	W300			3 (20 L)	X			Methanol, Ice	X											
F	SS					X			X											
G	S10								X											
H	S15								X											
I	S20								X											
J	S25								X											
Packed for Shipping by: <u>Stacy Cernohous</u>		Comments: <u>Change project # per MARY KOPPMAN ON 11/5/95 M. Ritter</u>																		
Shipment Date: <u>11-1-95</u>		Relinquished By: <u>Stacy Cernohous</u>		Date: <u>11-2-95</u>		Relinquished By: <u>Person Kern</u>		Date: <u>11-2-95</u>		Relinquished By: <u>Person Kern</u>		Date: <u>11-2-95</u>		Relinquished By: <u>Person Kern</u>		Date: <u>11-2-95</u>				
Company: <u>NETI</u>		Company: <u>NETI</u>		Time: <u>1:00</u>		Company: <u>NETI</u>		Time: <u>1:00</u>		Company: <u>Dunham Express</u>		Time: <u>1:00</u>		Company: <u>Dunham Express</u>		Time: <u>1:00</u>				
Received By: <u>Person Kern</u>		Date: <u>11-2-95</u>		Received By: <u>Person Kern</u>		Date: <u>11-2-95</u>		Received By: <u>Person Kern</u>		Date: <u>11-2-95</u>		Received By: <u>Person Kern</u>		Date: <u>11-2-95</u>		Received By: <u>Person Kern</u>				
Company: <u>NETI</u>		Time: <u>1:00</u>		Company: <u>NETI</u>		Time: <u>1:00</u>		Company: <u>NETI</u>		Time: <u>1:00</u>		Company: <u>NETI</u>		Time: <u>1:00</u>		Company: <u>NETI</u>				

*Waupun*

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REQUEST FOR ANALYSIS

No. 4360

Check office originating request

5011996 COM8/2037

Project No: <u>13055 (USP82032)</u>		Task No:		Laboratory: <u>US Analytical</u>		Sample Integrity - To be completed by receiving lab									
Project Location: <u>Markesan</u>		Project Manager: <u>MLK</u>		Wisconsin DNR Certification #: <u>445027060</u>		Seal intact upon receipt <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No									
Sampler (name): <u>Stacy Cernohous</u>		Sampler (signature): <u>Stacy Cernohous</u>		Laboratory Contact: <u>Mike Ricker</u>		Method of Shipment: <u>Danham</u>									
Sampling Date(s): <u>11-1-95</u>		Reports to be Sent to: <u>Stacy</u>		Price Quote:		Contents Temperature: <u>ice</u> °C Refrigerator No: _____									
				TURNAROUND TIME REQUIRED		ANALYSES REQUESTED									
				<input type="checkbox"/> Normal <input checked="" type="checkbox"/> Rush											
				Date Needed											
Lab ID No.	Sample No.	Collection Date	Collection Time	No. of Containers, Size and Type	Description	Preservative	DRO (WI Modified Method)	GRO (WI Modified Method)	BETX (EPA Method 8020)	PVOC (EPA Method 8020)	VOC (EPA Method 8021)	PAH (EPA Method)	Pb (EPA Method)	PID	
5011996	K530	11-1		3 (2oz)	Water	Methanol, Ice	X							4	
	K526	11-1		3 (2oz)	Soil	Methanol, Ice	X							1	

Packed for Shipping by: Stacy Cernohous Shipment Date: 11-1-95

Comments: Change project # per Matt Koopman on 11/8/95 M.Ricker

Relinquished By: <u>Stacy Cernohous</u>	Date: <u>11-2-95</u>	Relinquished By: <u>Jason Reis</u>	Date: <u>11-2-95</u>	Relinquished By: <u>K... 64</u>	Date: <u>11-02-95</u>
Company: <u>NETI</u>	Time: <u>1:00</u>	Company: <u>NETI</u>	Time: <u>1:00</u>	Company: <u>Danham Express</u>	Time: <u>1700</u>
Received By: <u>Jason Reis</u>	Date: <u>11-2-95</u>	Received By: <u>Kevin ...</u>	Date: <u>11-2-95</u>	Received By: <u>Dad ...</u>	Date: <u>11/2/95</u>
Company: <u>NETI</u>	Time: <u>1:00</u>	Company: <u>Danham Express</u>	Time: <u>1300</u>	Company: <u>OSOL</u>	Time: <u>5:00</u>