Minnesota Pollution Control Agency

July 6, 1993

Mr. Ralph Larson
Ralph Larson Chevrolet
531 South Main Street
Hector, Minnesota 55342

Dear Mr. Larson:

RE: Petroleum Tank Release Site Closure
Site: Ralph Larson Chevrolet, Hector
Site ID#: LEAK00002426

The Minnesota Pollution Control Agency (MPCA) staff has determined that the cleanup performed in response to the petroleum tank release at the site referenced above has adequately addressed the petroleum contamination, and therefore the file regarding this release will be closed.

On April 16, 1990, a petroleum tank release was reported to the MPCA. Since then, the following corrective actions have been taken in response to the release:

1. One 500 gallon waste oil underground storage tank was removed from the site.

2. Approximately 65 cubic yards of petroleum contaminated soil were removed and land applied at Kasal Farm. Contaminated soil remains on site at low levels. Field results indicate 54 parts per million (ppm) total hydrocarbons as gasoline (THC/gas). A sample taken from the base of the excavation for lab analysis contained .54 ppm THC/gas, below MPCA action levels.

Based on the currently available information, we concur that these actions have adequately addressed the petroleum tank release. Therefore, MPCA staff does not intend to require any more investigation or clean-up work in response to this release. However, the MPCA reserves the right to reopen this file and require additional work if in the future more work is determined to be necessary, and this letter does not release any party from liability for this contamination.

Because you performed the requested work, the state may reimburse you for a major portion of your costs. The Petroleum Tank Release Cleanup Act establishes a fund which in certain circumstances provides partial reimbursement for petroleum tank release clean-up costs. This fund is administered by the Petroleum Tank Release Compensation Board (Petro Board). More specific eligibility rules are available from the Petro Board (612/297-1119 or 612/297-4203).

Thank you for your cooperation with the MPCA in responding to this petroleum tank release to protect the public health and the environment of the state of Minnesota. If you have any questions regarding this correspondence, please call me at 612/297-8611.

Sincerely,

Mark E. Koplitz

Mark Koplitz
Pollution Control Specialist
Tanks and Spills Section
Hazardous Waste Division

MK:vb

cc: Robin Hanson, Department of Commerce
Mary Saeger, Hector City Administrator
Doug Knutson, Renville County Courthouse

Mr. Ralph Larson
Ralph Larson Chevrolet
531 South Main Street
Hector, Minnesota 55342

Dear Mr. Larson:

RE: Corrective Action Approval
Site: Ralph Larson Chevrolet, Hector
Site ID#: LEAK00002426

The Minnesota Pollution Control Agency (MPCA) staff has reviewed the report received August 7, 1990, outlining the corrective actions taken in response to the petroleum tank release at the above-referenced site. We understand that the following steps have been completed:

1. One 500 gallon waste oil underground storage tank was removed from the site.

2. Approximately 65 cubic yards of petroleum contaminated soil was removed and land applied at Kasal Farm. Contaminated soil remains on site at low levels. Field results indicate 54 parts per million (ppm) total hydrocarbons as gasoline (THC-G). A sample taken from the base of the excavation for lab analysis contained .54 ppm THC-G, below MPCA action levels.

It appears, based on available information, that the work already performed, along with completion of the work discussed above, will adequately address the site. We therefore do not expect any additional cleanup enforcement action by the MPCA will be necessary. However, if subsequently obtained information indicates that the release has not been fully addressed the MPCA may require additional work or changes in the ongoing work.

In approving the completion of the corrective action, the MPCA does not assume any liability for the design or implementation of this remedy. You remain solely responsible for ensuring that this action results in a successful cleanup and that it does not result in any harm to public health or the environment.

Please provide the soil monitoring results for the land applied soils when available.

If you have any questions, please contact me at 612/643-3426.

Sincerely,

Mark Koplitz
Pollution Control Specialist
Tanks and Spills Section
Hazardous Waste Division

cc: Barbara A. Ryan, MECC (3901 University Ave. N.E., MPLS., MN 55421)

To Typing 10/12/90

RECEIVED
AUG 07 1990
MPCA, HAZARDOUS
WASTE DIVISION

Response Action Report

UST Excavation Assessment/
Corrective Action Plan
Ralph Larson Chevrolet
Hector, Minnesota
MECC PROJECT NO.: 1070-0490
LEAK I.D. #00002426

MIDWEST ENVIRONMENTAL
CONTROL CORPORATION

m e c c
3901 University Ave. N.E.
Minneapolis, MN 55421
(612) 781-1647

June 18, 1990

Mr. Ralph Larson
Owner
Ralph Larson Chevrolet
5315 Main Street
Hector, MN 55342

MECC Project #1070-0490

Re: Response Action Report
Underground Storage Tank Excavation Observation
Ralph Larson Chevrolet
Hector, Minnesota

Dear Mr. Larson:

We have completed our environmental engineering assessment of the underground storage tank removal and soil excavation observation at the above-mentioned site. This report contains a summary of our test results and our environmental evaluation for the existing conditions encountered.

If you have any questions or wish to discuss any particular aspect of the project, please contact us at (612) 781-1647. We look forward to being of continued service to you.

Sincerely,

MIDWEST ENVIRONMENTAL CONTROL CORPORATION

Barbara A. Ryan
Environmental Geologist

Philip N. Cavendor, Director
Environmental Engineerining Services

BAR/lh

RESPONSE ACTION REPORT

UNDERGROUND STORAGE TANK REMOVAL ASSESSMENT

AND

EXCAVATION OBSERVATION/CORRECTIVE ACTION PLAN

Ralph Larson Chevrolet

Hector, Minnesota

MECC Project No. 1070-0490

MPCA Tanks and Spills Leak No. 00002426

Prepared For:

Ralph Larson Chevrolet

531 South Main

Hector, Minnesota 55342

Prepared By:

MIDWEST ENVIRONMENTAL CONTROL CORPORATION

3901 University Avenue N. E.

Minneapolis, Minnesota 55421

(612) 781-1647

June 18, 1990

TABLE OF CONTENTS

Response Action Report
Underground Storage Tank Excavation Observation

1.0 Introduction

1.1 General

The purpose of this report is to present the results of the petroleum contaminated soil excavation observation conducted by Midwest Environmental Control Corporation (MECC) for Ralph Larson Chevrolet located at 531 South Main St., Hector, Minnesota. This report is designed to provide adequate and detailed information as specified in the Minnesota Pollution Control Agency (MPCA) "Excavation of Petroleum Contaminated Soils," guidelines dated 12/12/88 and in Title 40 Code of Federal Regulations (CFR) 280.71.

1.2 Authorization

MECC was authorized by Mr. Ralph Larson to proceed with and undertake the explorative and interim response activities on April 16, 1990, regarding a suspected waste oil release from an underground storage tank at Ralph Larson Chevrolet.

1.3 Scope of Services

The scope of services performed by MECC personnel in relation to this underground storage tank site included:

- Background information collection;
- An on-site inspection by an Environmental Geologist;
- Removal observations of the underground storage tank;
- Evaluation of soil samples from the tank basin for evidence of hydrocarbon contamination based on visual appearances, odor, and photoionization detection (HNu Model 101);
- Analyzing selected soil samples for Benzene, Toluene, Ethylbenzene, Xylenes, Total Hydrocarbons as Gasoline, Volatile Hydrocarbons (by method 465C), Methyl Tertiary Butyl Ether (MTBE), Lead, Chromium, Cadmium, and Polychlorinated Biphenyl (PCB);
- Preparation of a report presenting data, methodologies, results and conclusions of the work performed at this site.

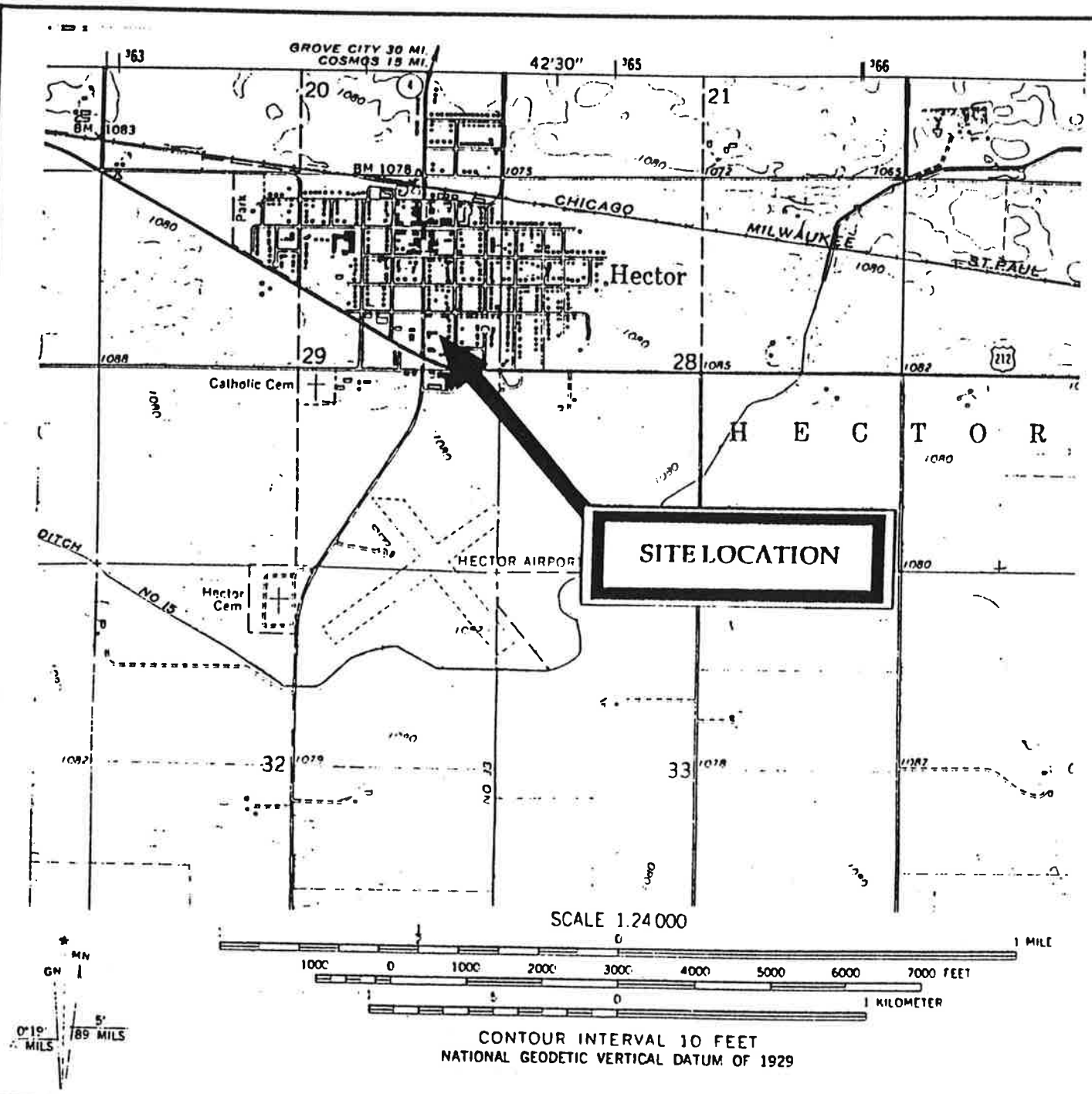
2.0 Site Background

2.1 Site Location and Description

The site is located at 531 South Main within Hector City Limits (Figure 1). The surface elevation of the site is approximately 1080 feet NGVD. The site is presently occupied by Ralph Larson Chevrolet. Residential buildings are located to the east of the site.

2.2 Tank Background Information

One underground storage tank (UST) existed at the site prior to removal. The UST on site was 500 gallons in capacity and constructed of painted steel. The tank was utilized for waste oil storage and located on the east side of the building (Figure 2). We understand that there are no other known UST's located at this facility. The tank was registered with the MPCA in 1986 and assigned unique registration number MNUST 9509. Based on information included in the Underground Storage Tank Information Form (Appendix A), the tank was installed in 1981. No information is available concerning product inventory control for this tank.



N

MIDWEST ENVIRONMENTAL CONTROL CORPORATION
3901 University Avenue NE
Minneapolis, Minnesota 55421
(612) 781-1647

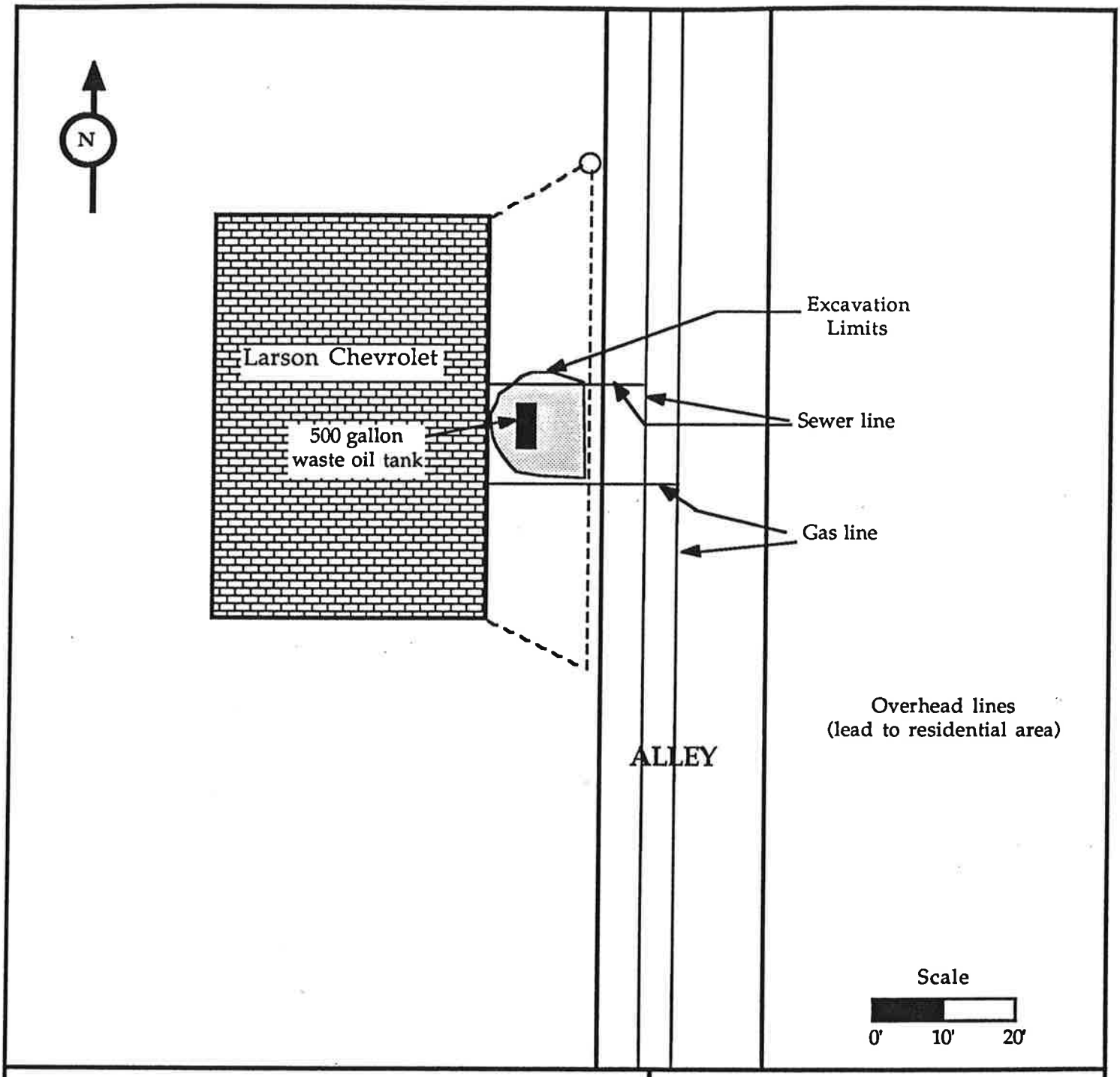
Figure 1

SITE LOCATION MAP

Ralph Larson Chevrolet

MECC Project # 1070-0490

Date: 5/18/90	Prepared By: Barb Ryan
Scale: 1"=2000'	Reviewed By:



MIDWEST ENVIRONMENTAL
CONTROL CORPORATION
3901 University Avenue NE
Minneapolis, Minnesota 55421
(612) 781-1647

Figure 2

Ralph Larson Chevrolet

Tank Location Diagram

MECC Project # 1070-0490

Project No. 1070-0490	Prepared By: BAR
Date: 5/18/90	Reviewed By:

3.0 Contaminated Soil Excavation Observation

3.1 Underground Storage Tank Removal

The tank was removed by J & M Trucking of Brownton, MN on April 16, 1990. The tank and associated dispensing piping were pumped dry and transported by J & M Tanks to their shop in Stewart, Minnesota where it was to be cleaned and dismantled for scrap. The MPCA was notified of a petroleum release at the site on April 16, 1990. The results of the tank removal are presented on the completed "Underground Storage Tank Removal Form" in Appendix B. The tank was in fair to poor condition with some pitting and corrosion. After the tank was completely removed from the tank basin, contamination was noted within native soils immediately adjacent to the tank.

3.2 Soil Conditions

The soil profile at this site consists of 1 foot of coarse sand and gravel underlain by a 1-1/2 foot layer of green clay. Lean organic clays predominate for depths of 2-1/2 feet to 5 feet. Green clay is found from 5 feet to 9 feet which is the bottom of the excavation pit. No ground water was evident in the tank basin during or after excavating operations.

3.3 Petroleum Contamination

Elevated levels of hydrocarbon soil contamination were detected within the storage tank basin. An HNu Model 101 equipped with a 10.2 eV lamp was utilized to screen the soil samples. The results of the field screening for hydrocarbon contamination are presented in Table 1. The excavated soils gave photoionization readings ranging from 16.8 to 54.0 parts per million (ppm). Soil screening detected background readings of 0.5 to 0.8 ppm. The final bottom sample in the tank basin at a depth of 9 feet, gave a reading of 54 ppm. An Ultraviolet Illuminator was also used to indicate total volatile and subvolatile petroleum hydrocarbons in the collected samples. These results are also presented in Table 1. Soil samples were collected from the base and sidewalls of the tank basin and the excavated contaminated soil pile. The soil samples were analyzed for Benzene, Toluene, Ethylbenzene, Xylenes (BTEX), Total Hydrocarbons (THC) as Fuel Oil and as Gasoline, Volatile Hydrocarbons (by method 465c), Methyl Tertiary Butyl Ether, Lead, Cadmium, Chromium and Polychlorinated Biphenyl (PCBs). The results of these analyses are presented in Table 2. The laboratory report is included in Appendix C.

Table #1

Soil Screening Results

MECC Project No: 1070-0490

MECC Project Name: Ralph Larson Chevrolet

	Sample I.D. No.	Sample Location	Sample Depth	Visual Detection		Odor Detection				Soil Type	HNu Readings in ppm		UVI Fluorescence				
				Y	N	N	W	M	S		Back-ground	Head-space	N	VW	W	M	S
	SWS-1	Sidewall South	6'		X	X				Sandy Clay	0.8	20.0	X				
*	SWN-4	Sidewall North	7'		X	X				Clay w/ Sand	0.7	16.8	X				
*	BS-1	Bottom Sample	9'		X		X			Sandy Clay w/ pebbles	0.8	54.0			X		
	SWW	Sidewall West	7'		X	X				" "	0.7	17.0				X	
	SWE	Sidewall East	7'		X	X				Sandy clay w/ pebbles	0.5	15.8					X
*	SP-1	Soil Sample	NA		X		X			Sandy Clay w/ pebbles	0.8	58.0					X

COMMENTS: * - Samples submitted for chemical analysis

N - Non-Detect
VW - Very Weak
W - Weak
M - Medium
S - Strong

TABLE 2

RESULTS OF CHEMICAL ANALYSES
RALPH LARSON CHEVROLET, INC.
HECTOR, MN
TANK BASIN

Parameter	SP-1	BS-1	SW-N
Benzene	<0.01	0.006	<0.005
Toluene	<0.01	<0.005	<0.005
Ethylbenzene	<0.01	<0.005	<0.005
Xylenes	<0.01	<0.005	<0.005
Total Hydrocarbons as gasoline	<0.50A	0.54	<0.50
as fuel oil	<2.0	<2.0	<2.0
Lead	140	--	--
Cadmium	0.73	--	--
PCB's	<1.0	--	--
MTBE	0.044	--	--
Chromium	13	--	--

INDEX: **SW-N** - North Sidewall Sample
BS-1 - Bottom Sample
SP-1 - Soil Pile Sample
A - Sample may contain an amount of this parameter below the detection limit.
< Not detected at this level.

- All Units Reported In Parts Per Million (PPM)
- Analyses Conducted By SERCO Laboratories, Inc.

3.4 Soil Excavation Results

During the excavation a sewer line was broken, the line was replaced by J & M with 2 foot lengths of cement pipe. The piping was covered above and below with plastic sheeting and then native clay.

Based on visual, odor and HNu screening results, approximately 65 yards of contaminated soil were excavated from the area around the tank basin. The contaminated soils were placed on an impermeable surface and covered with 6.0 ml poly sheeting to prevent vapor problems and infiltration. The contaminated soils were temporarily stockpiled at this location until MPCA approval was given for proper remediation of the soils.

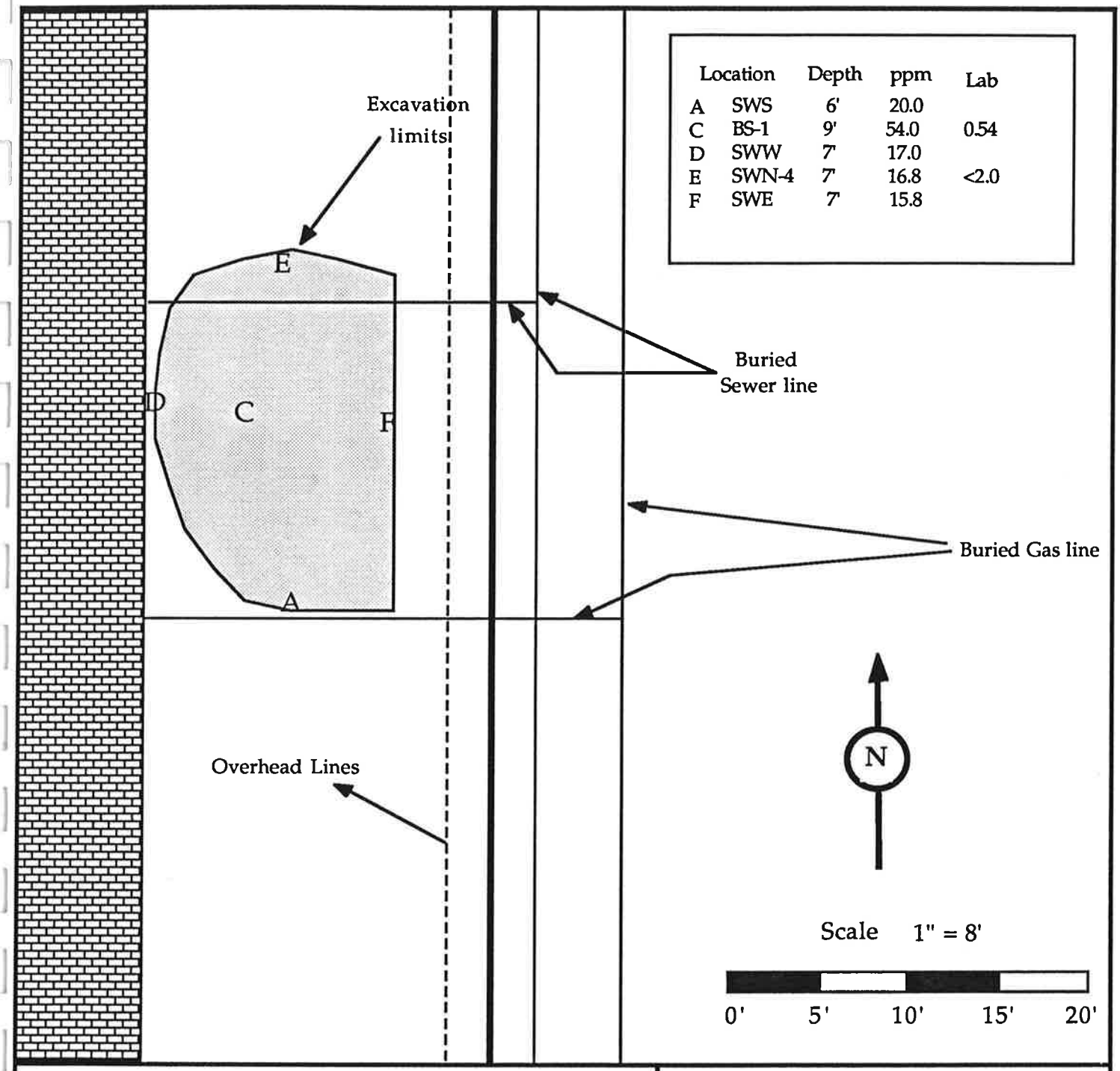
3.5 Potential Drinking Water Impacts

The building's drinking water is supplied via the City of Hector local water distribution system. The nearest water supply wells are located approximately 0.3 miles from the site. Best available information indicates that the local wells are generally completed at depths of approximately 400 feet and the static water level in these wells ranges between 47 and 60 feet. However, insufficient hydrologic information is available to adequately establish a local or regional groundwater gradient. Due to the drilled and completed depths of the surrounding local water wells, it seems highly unlikely that an impact from the release at this site would affect the groundwater in these wells. The logs of the available surrounding water wells were obtained from the Minnesota Geological Survey; they are presented in Appendix D along with a map showing their locations. A receptor survey is presented in Appendix E.

4.0 Conclusions and Recommendations

The petroleum contamination noted at this site appears to be mainly from a piping leak associated with the tank and/or tank failure. The soil excavation results indicate that the majority of the detectable petroleum contaminated soil was excavated from tank basin. Low HNu readings were observed on all of the side walls and the bottom of the basin; however, further excavation could not take place due to the threat of undermining the building foundation to the west and the presence of gas and sewer lines to the south and east. In addition, the analytical results generally indicate that petroleum hydrocarbon concentrations found in the soil samples are considerably lower than the corresponding photoionization readings.

Laboratory results of the soil samples indicate that minor hydrocarbon contamination remains within the detectable analytical limits below the tank basin (0.54 ppm). No additional impacts to public health, welfare or the environment appear evident as a result of this release. Due to the apparent low levels of petroleum contamination remaining in the tank basin at this site, we recommend that no additional explorative or remedial activities be conducted.



MIDWEST ENVIRONMENTAL CONTROL CORPORATION
3901 University Avenue NE
Minneapolis, Minnesota 55421
(612) 781-1647

FIGURE 3

RALPH LARSON CHEVROLET

SAMPLE LOCATION DIAGRAM

MECC PROJECT NO. 1070-0490

Project No. 1070-0490	Prepared By: BAR
Date: 7/9/90	Reviewed By:

5.0 Corrective Action Plan for Contaminated Soils

A Corrective Action Plan (CAP) for remediation of the approximately 65 cubic yards of contaminated soils is by means of land application at Kasal farms in Stewart, MN. The land application was approved by the MPCA on June 8, 1990. The land application form, approval letter, and sieve analysis are presented in appendix F.

The contaminated soils will be disked monthly during the land application season, to provide adequate aeration and mixing for the breakdown of hydrocarbons. Soil samples will be collected during the first year, as per MPCA recomendations, to document the contamination remaining in the soil.

6.0 Petrofund Reimbursement

The Petrofund Board was established by the 1989 Minnesota State Legislature for the purpose of administering the Petroleum Tank Release Compensation Fund. The objective of the program is to partially reimburse responsible persons for costs associated in responding to a petroleum release.

To be eligible for reimbursement, a Corrective Action Plan (CAP) must be approved of by the MPCA for the site. The corrective action must adequately address the release in terms of public health, welfare and the environment. This includes defining the extent of the petroleum release, which may involve exploratory soil borings and/or groundwater monitoring wells, and potential impacts to nearby structures or water supply wells. It must also be shown the operation of the tank was performed properly including maintaining inventory control procedures prior to the remedial action. In addition, the tank must have been in compliance with applicable state and federal tank regulations at the time of the petroleum release and the MPCA was properly notified of the release. Once these items have been addressed and the MPCA requirement for cooperation has been met, application to the Board may be prepared and eligible costs submitted for partial reimbursement.

7.0 Qualifications

The environmental services performed by our engineers, hydrogeologists and geotechnicians for this project have been conducted in a manner consistent with the degree of care and technical skill appropriately exercised by environmental professionals currently practicing in this area under similar budget and time constraints. Recommendations contained in this report represent our professional judgement and are generally based upon available information and technically accepted hydrogeologic and engineering practices at the present time and location. Other than this, no warranty is implied or expressed.

This report was prepared by:

Barbara A. Ryan
Environmental Geologist

Date: June 18, 1990

This report was reviewed by:

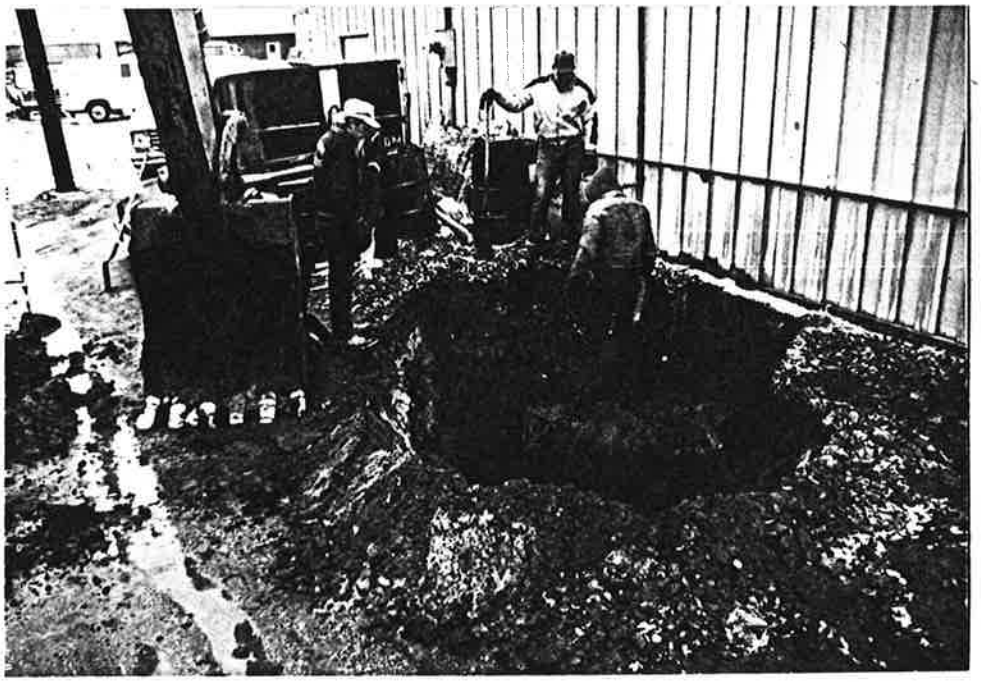
Philip N. Cavendor, Director
Environmental Engineering Services

Date: June 18, 1990

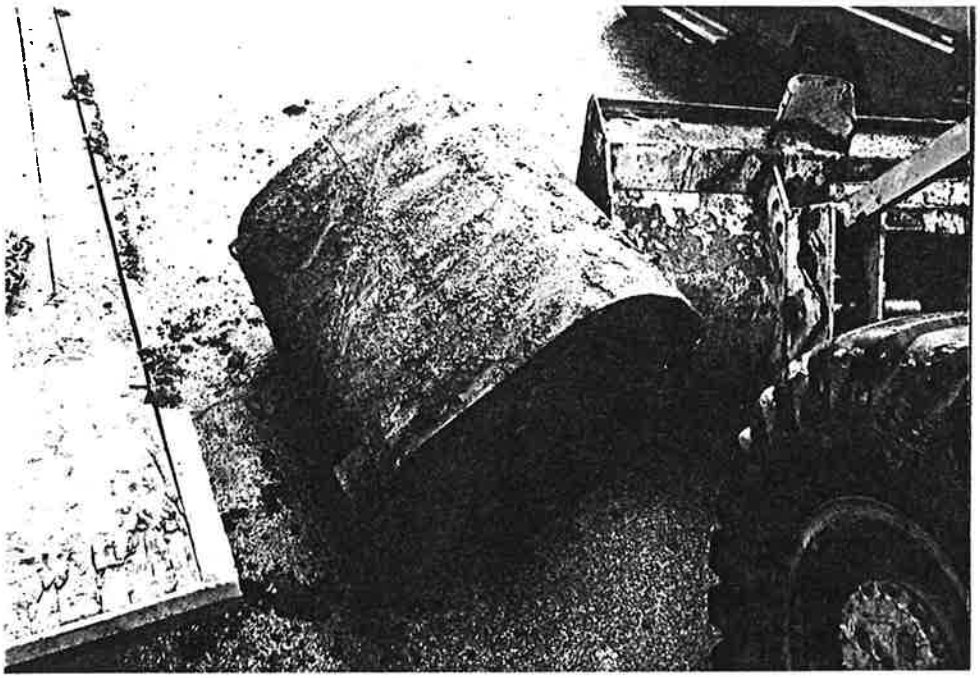
Ralph Larson Chevrolet
MECC Project No. 1070-0490

PHOTOGRAPHS

Site photo before excavation began



500 gallon waste oil UST



500 gallon UST

Broken sewer line

Repairing the broken sewer line

Backfilled tank basin

APPENDIX A

UNDERGROUND STORAGE TANK NOTIFICATION FORM

NOTIFICATION FOR UNDERGROUND STORAGE TANKS

MINNESOTA POLLUTION CONTROL AGENCY
HAZARDOUS WASTE DIVISION
TANKS AND SPILLS SECTION
520 LAFAYETTE ROAD NORTH
ST. PAUL, MINNESOTA 55155

MPCA USE

(READ INSTRUCTIONS ON REVERSE BEFORE STARTING)

A. CHOOSE APPROPRIATE TRANSACTION TYPE(S)

- ☐ Initial Notification
- ☐ Change in Tank Ownership (Date ___/___/___)
- ☐ Install New Tank
- ☒ Remove Tank (Date 4 /16 /90)
- ☐ Upgrade Tank (Date ___/___/___)
- ☐ Other Changes (Please Specify)
- ☐ Close in Place (Date ___/___/___)

B. Name of Tank Site		C. Name of Owner	
Ralph Larson Chevrolet INC		Ralph Larson Chevrolet INC	
Tank Site Address		**Mailing Address**	
531 South Main		531 South Main	
City	**County**	**City**	**State**
Hector	Renville	Hector	MN
Zip	**Phone (Include Area Code)**	**Zip**	**Phone (Include Area Code)**
55342	612-848- 6251	55342	612-848-6251

D. Tank Number	E. Date Tank 1. Installed	2. Capacity (Gallons)	3. Material of Construction (Tank)	4. Corrosion Protection Internal	External
001	6 /14 / 81	500	Painted Steel	YES / NO X	YES / NO X

5. Material of Construction (Piping)	Corrosion Protection	6. Dispenser Type	7. Substance Stored	8. Secondary Containment
Galvanized Steel	YES / NO X	Suction	Waste Oil	NO

F. RELEASE DETECTION (CHOOSE ALL THAT APPLY)

- ☐ Tank Tightness Testing & Inventory Controls
- ☐ Interstitial Monitoring (Double Wall Tank)
- ☐ Interstitial Monitoring (Sec. Containment)
- ☐ Manual Tank Gauging (Less than 550 gal.)
- ☐ Manual Tank Gauging & Tank Tightness Test (551 to 2000 ga.)
- ☐ Vapor Monitoring
- ☐ Automatic Line Leak Det
- ☐ Automatic Tank Gauging
- ☐ Ground-Water Monitoring
- ☐ Line Tightness Test
- ☒ Other Method(s)-Specify

HNU Readings during Tank removal

G. COMMENTS

LEAK SITE # 2426

I certify under penalty of law that I have personally examined & am familiar with the information submitted in this & all attached documents, & that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the submitted information is true, accurate, and complete.

Print Name & Official Title of owner or owner's authorized representative

Ralph Larson Owner

Owner/Representative Signature Date

Ralph L Larson

PQ-00410-01 (7/89)

Continue Completing Form on Page 2 - OVER

H. TANK INSTALLER		I. TANK REMOVER	
Tank Installer		Tank Remover J+M Tanks	
Mailing Address		Mailing Address Box 219	
City	State	City Stewart	State MN
Zip	Phone (Include Area Code)	Zip 55385	Phone (Include Area Code) 612-562-2513
I certify under penalty of law that all work listed on the manufacturer's installation checklist and American Petroleum Institute Bulletin 1615 has been completed for this tank to the best of my belief and knowledge.		Remover- Printed Name Randy Korson	
		Remover Signature - Date Randy Korson 4-16-90	
Installer- Printed Name		J. FINANCIAL RESPONSIBILITY (If applicable)	
Installer Signature - Date		Financial responsibility requirements have been complied with for this tank (Please specify). Method_____ Insurer_____	
		Policy Number_____	

DIRECTIONS TO COMPLETE NOTIFICATION FORM: NOTE THIS FORM MAY BE COPIED

Proper completion and submission of this notification form fulfill the requirements of both state and federal law (Minn. Stat. Sec. 116.48 and 42 USC Sec. 6991a) concerning underground storage tank notifications. All notifications must be typed or printed legibly with a ballpoint pen. Use one form for each tank being reported. Complete all items. Completed forms are to be mailed to MPCA at the address on the front of this form.

A. Check the box or boxes which most closely describe the action being reported.

B. Give the name, complete address and phone number of the site where the tank is located.

C. Give the name, complete address and phone number of the tank owner (individual, corporation, agency or other organization).

D. Assign a number (up to 3 characters) for each tank reported.

E. Provide the following information about the tank:
1. date installed (mm/dd/yy)
2. capacity of the tank in gallons
3. material of tank construction (FRP, steel, STIP-3, etc.)
4. circle the correct choice indicating if the tank has internal and/or external corrosion protection
5. material of piping construction (black iron, galvanized, etc.); circle the correct choice indicating if the piping has corrosion protection
6. type of system or pump used to dispense product (submersible, suction, etc.)
7. substance currently or most recently stored in the tank (gasoline, diesel, kerosene, etc.)
8. type of secondary containment, if any (vault, double wall, liner, etc.)

F. Check the box or boxes describing the type of leak detection systems in use. For explanation of systems, see 40, CFR Part 280, Subpart D.

G. Type or neatly print any comments pertaining to A. through F.

H. To be completed by the tank installer for all tanks installed after December 22, 1988.

I. To be completed by the tank remover for all tanks removed.

J. Certain tank owners or operators must meet financial responsibility requirements for the tank. Consult 40 CFR Part 280, Subpart H for specific requirements.

INFORMATION ON MPCA_ID: 9509 Facility Name RALPH LARSON CHEVROLET INC

ACILITY INFORMATION

MPCA ID: TNK9509 Exempt: N
STC:
acility Type:
EQUIP RENT/MOVING/STORAGE
Date Form Received: 04/23/86

Name of Tank Site:			Name of Owner:	
RALPH LARSON CHEVROLET INC			RALPH LARSON CHEVROLET INC	
Tank Site Address:			Mailing Address:	
531 S MAIN ST			531 S MAIN ST	
City:			City:	State:
HECTOR			HECTOR	MN
Zip:	Phone:	County:65	Zip:	Phone:
55342	6128486251	Renville	55342	6128486251

Twp: 0 Rng: 0W Section: 1

FACILITY REMARKS

The following comment was entered on: 04/23/86
#12- PIPING IS NOT UNDERGROUND- SECTION C- PROPERTY LOCATION-
BUTLER & HENDRICKSONS S 285 FT OF N 390 FT OF W 171 FT OF OL 6- EX S
100 FT OF N 205 FT OF E 101 FT

TANK INFORMATION TANK STATUS: ACTIVE

MPCA Storage Tank Database System —Underground Tank Information

Tank Number	Install Date	Capacity (Gallons)	Material Of Construction	Corrosion Protection Tank	Corrosion Protection Pipe
001	06/14/81	500	PAINTED STEEL	N	N

Piping Material	Piping Protect	Dispenser Type	Substance Stored	Secondary Containment Tank	Secondary Containment Pipe
GALVANIZED STEEL	N	SUCTION	Waste Oil	N	N

RELEASE DETECTION (Choose all that apply by putting a Y in box)

N	Tank Tightness Testing & Inventory Control	N	Vapor Monitoring
N	Interstitial Monitoring (Double Wall Tank)	N	Automatic Line Leak Detection
N	Interstitial Monitoring (Secondary Containment)	N	Automatic Tank Gauging
N	Manual Tank Gauging (Less than 550 gallons)	N	Ground Water Monitoring
N	Manual Tank Gauging & Tank Tightness Test (551 to 2000 gallons)	N	Line Tightness Test
		N	Other Methods (see Comments)

Installer Number: Signature:
Remover Number: Signature:
ssurance Method: UNKNOWN Insurer Name:

APPENDIX B

UNDERGROUND STORAGE TANK REMOVAL INFORMATION FORM

UNDERGROUND STORAGE TANK REMOVAL INFORMATION FORM

This Form Is Provided To Tank Owners And Operators, Fire Department Representatives And Others To Assist The Observation Of Underground Storage Tank Removals. It Is The Legal Duty Of The Tank Owner And Operator To Report Any Evidence Of Petroleum Contamination To The Minnesota Pollution Control Agency (MPCA).

Observer Barbara A. Ryan **Date:** 4-16-90 **Time:** A.M.

Signature: Barbara A. Ryan
Organization Name: MECC
Position: ENV. Geologist
Address: 3901 University Ave **City:** Mnp's, MN
Telephone No.(s): 612-781-1647 ,

<<<<<<<<<<<<<<<<<<<<<<<< TANK INFORMATION >>>>>>>>>>>>>>>>>>>>>>>>

Tank Owner Name: Ralph Larson
Contact Person: Ralph Larson **Title:** President
Tank Location Name: Ralph Larson Chevrolet
Address: 531 South Main **City:** Hector
County: Renville **Telephone Number:** 612-848-6251
Excavation Contractor: J & M Tanks
Address: Box 219 Stewart, MN
Telephone Number: 612-562-2513

TANK	Condition & Size	Contents (Product)	Visible Corrosion	Visible Leakage	Soil Contamination
1	Fair/Poor 500	Waste Oil	Yes	No	Yes
2					
3					
4					
5					
6					

<<<<<<<<<<<<<< SOIL CONDITIONS WITHIN THE EXCAVATION >>>>>>>>>>>>>>

1. Detectable Petroleum Contamination Was Found? (YES) / NO
2. Petroleum Odors: (Circle; (Weak), Moderate, Strong) (YES) / NO
3. Visible Petroleum Product In Soil: YES / (NO)
4. Sheen On Water Mixed With Soil: YES / (NO)
5. Sheen On Ground Water In Excavation: YES / (NO)
6. Petroleum Product On Ground Water In Excavation: YES / (NO)
7. Vapor Detection Instrument Used (hNu or other device) (YES) / NO
8. Soil Samples Taken From Under Tank(s) (YES) / NO
9. Soil Type: (Circle; (Clay), Silt, (Sand), Gravel, Fill)
11. Pictures Taken: (Y) / N , By: Jeff Groen
10. Tank Disposed By: J & M Tanks **Where:** Stewart, MN

Kasal Farms

The Minnesota Pollution Control Agency (MPCA) must be notified immediately of any evidence of petroleum contamination
24 Hour Emergency Leak or Spill Number: (1-612-296-8100)
During Business Hours: (1-612-296-7235) or (1-612-296-7709)

CONTINUED ON BACK ---------->

ADDITIONAL COMMENTS, DETAILS AND DESCRIPTIONS: _____

Sketch the property site and tank location(s)in the space provided below.

NORTH

W
E
S
T

E
A
S
T

SOUTH

Please fill out this form as completely as possible. Provide a copy to the local Fire Department Official and send the original form to the MPCA at the address below.

Minnesota Pollution control Agency
Tanks and Spills Section
Hazardous Waste Division
520 Lafayette Road, St. Paul, Minnesota 55155

APPENDIX C

LABORATORY RESULTS

SERCO Laboratories

1931 West County Road C2. St Paul. Minnesota 55113 (612) 636-7173

LABORATORY ANALYSIS REPORT NO: 864 PAGE 1
05/11/90

Midwest Environmental Control
Corporation
3901 University Avenue N.E.
Minneapolis, MN 55421

Attn: Jeff Groen
Ralph Larson Chevrolet

DATE COLLECTED: 04/16/90
DATE RECEIVED: 04/17/90
COLLECTED BY : CLIENT
DELIVERED BY : CLIENT
SAMPLE TYPE : SOIL

SERCO SAMPLE NO:	26260	26270	26280
SAMPLE DESCRIPTION:	SP-1 1070-0490	BS-1 1070-0490	SWN 1070-0490
ANALYSIS:			
Methyl Tertiary Butyl Ether, mg/kg	0.044	-	-
FID Scan, mg/kg, as #2 fuel oil	<2.0	<2.0	<2.0
FID Scan, mg/kg, as gasoline	<0.50(A)	0.54	<0.50
Lead, mg/kg as Pb	140	-	-
Total Chromium, mg/kg as Cr	13	-	-
Cadmium, mg/kg as Cd	0.73	-	-
Polychlorinated Biphenyl, (PCB), dry weight, mg/kg	<1.0	-	-
Chloromethane, ug/kg	<6.0	-	-
Dichlorodifluoromethane, ug/kg	<5.0	-	-
Vinyl chloride, ug/kg	<10	-	-
Bromomethane, ug/kg	<10	-	-
Chloroethane, ug/kg	<4.0	-	-
Dichlorofluoromethane, ug/kg	<10	-	-
Methylene chloride, ug/kg	<50	-	-
Trichlorofluoromethane, ug/kg	<7.0	-	-
Allyl chloride, ug/kg	<2.0	-	-
1,1 Dichloroethylene, ug/kg	<2.0	-	-
1,1 Dichloroethane, ug/kg	<1.0	-	-
1,2 Dichloroethylene, trans, ug/kg	<1.0	-	-
1,2 Dichloroethylene, cis, ug/kg	<1.0	-	-
Chloroform, ug/kg	<5.0	-	-
1,1,2 Trichlorotrifluoroethane, ug/kg	<50	-	-
1,2 Dichloroethane, ug/kg	<2.0	-	-
Dibromomethane, ug/kg	<2.0	-	-
1,1,1 Trichloroethane, ug/kg	<1.0	-	-

< means "not detected at this level". 1 mg = 1000 ug.

Member

SERCO Laboratories

1931 West County Road C2, St Paul, Minnesota 55113 (612) 636-7173

SERCO SAMPLE NO:	26260	26270	26280
SAMPLE DESCRIPTION:	SP-1 1070-0490	BS-1 1070-0490	SWN 1070-0490
ANALYSIS:			
Carbon tetrachloride, ug/kg	<2.0	-	-
Bromodichloromethane, ug/kg	<2.0	-	-
Dichloroacetonitrile, ug/kg	<2.0	-	-
2,3 Dichloro-1-Propylene, ug/kg	<2.0	-	-
1,2 Dichloropropane, ug/kg	<1.0	-	-
1,1 Dichloro-1-Propylene, ug/kg	<2.0	-	-
1,3 Dichloro-1-propylene, trans, ug/kg	<9.0	-	-
Trichloroethylene, ug/kg	<4.0	-	-
1,3 Dichloropropane, ug/kg	<2.0	-	-
Dibromochloromethane, ug/kg	<4.0	-	-
1,1,2 Trichloroethane, ug/kg	<1.0	-	-
1,3 Dichloro-1-propylene, cis, ug/kg	<15	-	-
1,2,Dibromoethane, ug/kg	<2.0	-	-
2 Chloroethylvinyl ether, ug/kg	<4.0	-	-
Bromoform, ug/kg	<5.0	-	-
1,1,1,2 Tetrachloroethane, ug/kg	<1.0	-	-
1,2,3 Trichloropropane, ug/kg	<2.0	-	-
1,1,2,2 Tetrachloroethane, ug/kg	<2.0	-	-
Tetrachloroethylene, ug/kg	<2.0	-	-
Pentachloroethane, ug/kg	<2.0	-	-
Chlorobenzene, ug/kg	<10	-	-
Acetone, ug/kg	<1000	-	-
Tetrahydrofuran, ug/kg	<50	-	-
Methyl ethyl ketone, ug/kg	<50	-	-
Benzene, ug/kg	<10	-	-
Methyl isobutyl ketone, ug/kg	<50	-	-
Toluene, ug/kg	<10	-	-
Ethylbenzene, ug/kg	<10	-	-
Cumene, ug/kg	<10	-	-
m-Xylene, ug/kg	<10	-	-

< means "not detected at this level". 1 mg = 1000 ug.

Member

SERCO Laboratories

1931 West County Road C2. St. Paul. Minnesota 55113 (612) 636-7173

LABORATORY ANALYSIS REPORT NO: 864 PAGE 3
05/11/90

SERCO SAMPLE NO:	26260	26270	26280
SAMPLE DESCRIPTION:	SP-1 1070-0490	BS-1 1070-0490	SWN 1070-0490
ANALYSIS:			
o,p-Xylene, ug/kg	<10	-	-
1,3 Dichlorobenzene, ug/kg	<10	-	-
1,2 Dichlorobenzene, ug/kg	<10	-	-
1,4 Dichlorobenzene, ug/kg	<10	-	-
Ethyl ether, ug/kg	<100	-	-
Benzene, mg/kg	-	0.006	<0.005
Ethylbenzene, mg/kg	-	<0.005	<0.005
Toluene, mg/kg	-	<0.005	<0.005
Xylene, mg/kg	-	<0.005	<0.005

(A) Sample may contain an amount of this parameter below the detection limit.

All analyses were performed using EPA or other accepted methodologies. Samples that may be of an environmentally hazardous nature will be returned to you. Other samples will be stored for 30 days from the date of this report, then disposed of by SERCO LABORATORIES. Please contact me if other arrangements are needed.

Report submitted by,

Diane J. Anderson

Diane J. Anderson
Project Manager

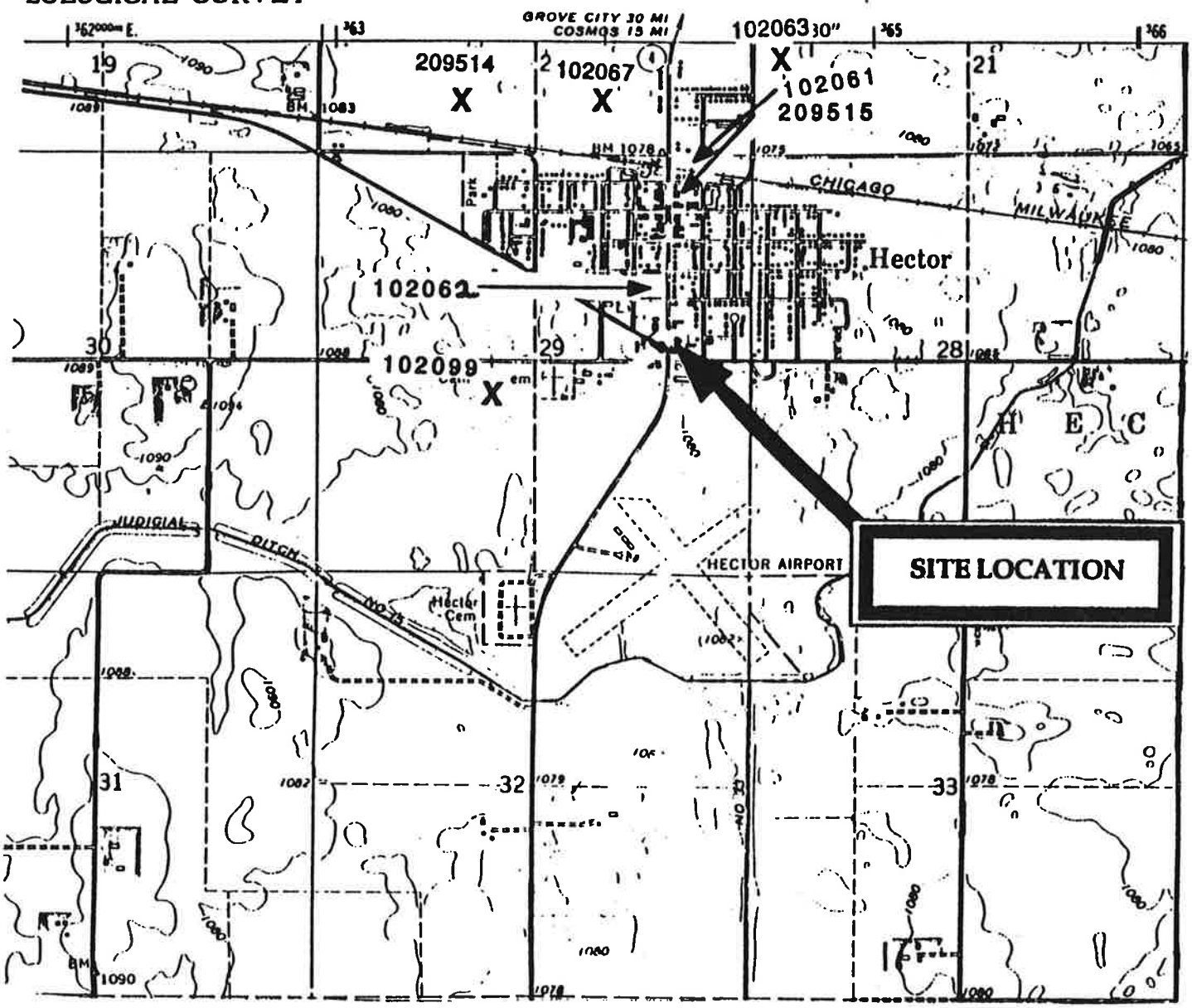
< means "not detected at this level". 1 mg = 1000 ug.

Member

APPENDIX D

WATER WELL LOCATION MAP

AND WELL LOGS



Scale

0 2000

MIDWEST ENVIRONMENTAL CONTROL CORPORATION
3901 University Avenue NE
Minneapolis, Minnesota 55421
(612) 781-1647

Figure 4

Water Well Location Map

Ralph Larson Chevrolet

MECC Project # 1070-0490

Date: 6/5/90	Prepared By: Barb Ryan
Scale: 1"=2,000'	Reviewed By:

STATE OF MINNESOTA
DEPARTMENT OF HEALTH

WATER WELL RECORD

Minnesota Statutes 156A.01-.08

MINNESOTA UNIQUE WELL NO. for Water Sample: 102099

1. LOCATION OF WELL

County Name	Fraction	Section Number	Township Number	Range Number
Renville	SW¼ NW¼ SW¼	27	T115N N. or S.	R32W E. or W.

Distance and Direction from Road Intersections or Street Address and City of Well Location

Show exact location of well in section grid with "X." Sketch map of well location.

elev 1075 ± 5
elev 1043
T115-32-27 aaa

3. PROPERTY OWNER'S NAME: City Hector
Address: City Hector, Minnesota

4. WELL DEPTH (completed) ft. Date of Completion 9/4-5

5. 1 ☐ Cable tool 4 ☐ Reverse 7 ☐ Driven 10 ☐ Dug
2 ☐ Hollow rod 5 ☐ Air 8 ☐ Bored 11 ☐
3 ☒ Rotary 6 ☐ Jetted 9 ☐ Power Auger

6. USE
1 ☐ Domestic 4 ☐ Public Supply 7 ☐ Industry
2 ☐ Irrigation 5 ☐ Air Conditioning 8 ☐ Commercial
3 ☒ Test Well 6 ☐

7. CASING DIAM.
Threaded ☐ 1 Welded ☐ 3
Black ☐ 2 Galv. ☐ 4
_____ in. to _____ ft. depth
_____ in. to _____ ft. depth
_____ in. to _____ ft. depth
HEIGHT: Above/Below Surface _____ ft.
Weight _____ lbs./ft.
Drive Shoe? Yes ___ No ___

8. SCREEN
Make _____
Type _____ Dia. _____
Slot Size _____ Length _____
Set between _____ ft. and _____ ft.
_____ ft. and _____ ft.
Or open hole from _____ ft. to _____ ft.
FITTINGS:

9. STATIC WATER LEVEL
_____ ft. ☐ below ☐ above land surface Date Measured _____

10. PUMPING LEVEL (below land surface)
_____ ft. after _____ hrs. pumping _____ g.p.m.
_____ ft. after _____ hrs. pumping _____ g.p.m.

11. WELL HEAD COMPLETION
1 ☐ Pitless adapter 2 ☐ Basement offset 3 ☐ At least 12" above grade

12. Well grouted? ☐ Yes ☐ No Cu. Yds. _____
1 ☐ Neat cement 2 ☐ Bentonite 3 ☐ _____
Depth: from _____ ft. to _____ ft.
from _____ ft. to _____ ft.

13. Nearest source of possible contamination
_____ feet _____ direction _____ type
Well disinfected upon completion? Yes ☐ No ☐

14. PUMP
Date installed _____ ☐ Not installed
Manufacturer's Name _____
Model Number _____ HP _____ Volts _____
Length of drop pipe _____ ft. Capacity _____ g.p.m.
Material of drop pipe _____
Type: 1 ☐ Submersible 3 ☐ L.S. Turbine 5 ☐ Reciprocating
2 ☐ Jet 4 ☐ Centrifugal 6 ☐ _____

15. WATER WELL CONTRACTOR'S CERTIFICATION
This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.

Thein Well Co., Inc. 12013
Licensee Business Name License No.
Address Clara City, Minnesota
Signed _____ Date _____
Authorized Representative

2. FORMATION LOG

FORMATION	COLOR	HARDNESS OF FORMATION	FROM	TO
Black dirt QWU	SOIL, ORGANIC		0	2
Sandy yellow clay QFUU	CLAY, SAND		2	13
Sandy blue clay QFUU	CLAY, SAND		13	57
Sand QFUU	SAND		57	58'6"
Sandy blue clay QFUU	CLAY, SAND		58'6"	80
Sand QFUU	SAND		80	81
Sandy blue clay w/rocks QFUU	CLAY, SAND		81	238
Sand QFUU	SAND		238	239
Sandy blue clay QFUU	CLAY, SAND		239	242
Sand w/clay lenses QFUU	SAND, CLAY		242	250
Sandy blue clay QFUU	CLAY, SAND		250	269
Sand QFUU	SAND		269	271
Sandy blue clay QFUU	CLAY, SAND		271	342
Very fine sand w/wood & clay QFUU	SAND, WOOD, CLAY		342	380
Fine sand QFUU	SAND		380	389
Granite PWUD	GNIS	686	389	392

No Drill Log

Use a second sheet, if needed.

15. REMARKS, ELEVATION, SOURCE OF DATA, etc.

COPIED

STATE OF MINNESOTA
DEPARTMENT OF HEALTH

WATER WELL RECORD

Minnesota Statutes 156A.01-.08

MINNESOTA UNIQUE WELL NO. for Water Sample: 102062

1. LOCATION OF WELL

County Name	Fraction	Section Number	Township Number	Range Number
Renville	NE ¼ of NE ¼	29	T 115 N. of S.	R 32 W E. or W.

Distance and Direction from Road Intersections or Street Address and City of Well Location

Show exact location of well in section grid with "X." Sketch map of well location.

115-32-29 adbBCC

elev. 1082 ± 5

N W E S 1 mile ½ mi.

3. PROPERTY OWNER'S NAME

Address: Can't locate Hector

City: Hector, Minnesota

4. WELL DEPTH (completed) ft.

Date of Completion: 94B

5. 1 ☐ Cable tool 2 ☐ Hollow rod 3 ☒ Rotary 4 ☐ Reverse 5 ☐ Air 6 ☐ Jetted 7 ☐ Driven 8 ☐ Bored 9 ☐ Power Auger 10 ☐ Dug 11 ☐ _____

6. USE 1 ☐ Domestic 2 ☐ Irrigation 3 ☒ Test Well 4 ☐ Public Supply 5 ☐ Air Conditioning 6 ☐ _____ 7 ☐ Industry 8 ☐ Commercial

7. CASING DIAM. Threaded ☐ 1 Welded ☐ 3 Black ☐ 2 Galv. ☐ 4

_____ in. to _____ ft. depth

_____ in. to _____ ft. depth

_____ in. to _____ ft. depth

HEIGHT: Above/Below Surface _____ ft.

Weight _____ lbs./ft.

Drive Shoe? Yes ☐ No ☐

8. SCREEN Make _____ Type _____ Dia. _____ Slot/Gauze _____ Length _____ Set between _____ ft. and _____ ft.

Or open hole from _____ ft. to _____ ft.

FITTINGS:

9. STATIC WATER LEVEL _____ ft. ☐ below land surface ☐ above Date Measured _____

10. PUMPING LEVEL (below land surface)

_____ ft. after _____ hrs. pumping _____ g.p.m.

_____ ft. after _____ hrs. pumping _____ g.p.m.

11. WELL HEAD COMPLETION 1 ☐ Pitless adapter 2 ☐ Basement offset 3 ☐ At least 12" above grade

12. Well grouted? ☐ Yes ☐ No Cu. Yds. _____

1 ☐ Neat cement 2 ☐ Bentonite 3 ☐ _____

Depth: from _____ ft. to _____ ft.

from _____ ft. to _____ ft.

13. Nearest source of possible contamination

_____ feet _____ direction _____ type

Well disinfected upon completion? Yes ☐ No ☐

14. PUMP

Date installed _____

☐ Not installed

Manufacturer's Name _____

Model Number _____ HP _____ Volts _____

Length of drop pipe _____ ft. capacity _____ g.p.m.

Material of drop pipe _____

Type: 1 ☐ Submersible 2 ☐ Jet 3 ☐ L.S. Turbine 4 ☐ Centrifugal 5 ☐ Reciprocating 6 ☐ _____

2. FORMATION LOG

FORMATION	COLOR	HARDNESS OF FORMATION	FROM	TO
Black dirt			0	1½
Grayish yellow clay			1½	5
Sandy brownish gray clay			5	15
Sandy blue clay			15	54
Sand			54	54½
Sandy blue clay			54½	85½
Sand			85½	89
Sandy blue clay			89	93½
Sand Rocks			93½	95
Sandy blue clay w/sand seams			95	148
Rock			148	149
Sandy blue clay			149	213
Sand			213	214½
Sandy blue clay			214½	240
Soft sandy blue clay			240	268
Blue w/green clay			270	274
Sandy blue clay			274	285
Sand			285	286½
Sandy blue clay			286½	338
Granite			[illegible]	341

CODED

15. REMARKS, [illegible] LOCATION, SOURCE OF DATA, [illegible] Use additional space, if [illegible]

16. WATER WELL CONTRACTOR'S CERTIFICATION

This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.

Thein Well Co — 12013
Licensee Business Name — License No.

Address: Clara City Minn

Signed _____ Date _____
Authorized Representative

Michael Weiss
Name of Driller

2>

STATE OF MINNESOTA
DEPARTMENT OF HEALTH

WATER WELL RECORD

Minnesota Statutes 156A.01-.08

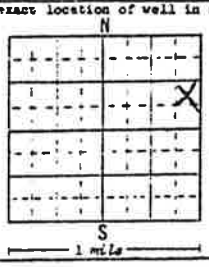
MINNESOTA UNIQUE WELL NO. for Water Supply: 102061

1. LOCATION OF WELL

County Name	Fraction	Section Number	Township Number	Range Number
Kandiyohi	NE¼ SE¼	29	115 N. or S.	32W E. or W.

Distance and Direction from Road Intersections or Street Address and City of Well Location

Show exact location of well in section grid with "X." Sketch map of well location.



elev. 1084
115-32-29 aaabaa
elev 1075 LS

3. PROPERTY OWNER'S NAME

Address 5 City Hector, Minnesota

4. WELL DEPTH (completed) ft. — Date of Completion

5. 1 ☐ Cable tool 2 ☐ Hollow rod 3 ☒ Rotary 4 ☐ Reverse 5 ☐ Air 6 ☐ Jetted 7 ☐ Driven 8 ☐ Bored 9 ☐ Power Auger 10 ☐ Dug 11 ☐ _____

6. USE 1 ☐ Domestic 2 ☐ Irrigation 3 ☒ Test Well 4 ☐ Public Supply 5 ☐ Air Conditioning 6 ☐ _____ 7 ☐ Industry 8 ☐ Commercial

7. CASING DIAM. Threaded ☐ 1 Welded ☐ 3 Black ☐ 2 Galv. ☐ 4
_____ in. to _____ ft. depth
_____ in. to _____ ft. depth
_____ in. to _____ ft. depth
HEIGHT: Above/Below Surface _____ ft. Weight _____ lbs./ft. Drive Shoe? Yes ___ No ___

8. SCREEN Or open hole from _____ ft. to _____ ft.
Make _____ Dia. _____
Type _____ Length _____
Slot/Gauze _____ FITTINGS:
Set between _____ ft. and _____ ft.
_____ ft. and _____ ft.
_____ ft. and _____ ft.

9. STATIC WATER LEVEL _____ ft. ☐ below ☐ above land surface Date Measured _____

10. PUMPING LEVEL (below land surface)
_____ ft. after _____ hrs. pumping _____ g.p.m.
_____ ft. after _____ hrs. pumping _____ g.p.m.

11. WELL HEAD COMPLETION 1 ☐ Pitless adapter 2 ☐ Basement offset 3 ☐ At least 12" above grade

12. Well grouted? ☐ Yes ☐ No Cu. Yds. _____
1 ☐ Neat cement 2 ☐ Bentonite 3 ☐ _____
Depth: from _____ ft. to _____ ft.
from _____ ft. to _____ ft.

13. Nearest source of possible contamination
_____ feet _____ direction _____ type
Well disinfected upon completion? Yes ☐ No ☐

14. PUMP Date installed _____ ☐ Not installed
Manufacturer's Name _____
Model Number _____ HP _____ Volts _____
Length of drop pipe _____ ft. capacity _____ g.p.m.
Material of drop pipe _____
Type: 1 ☐ Submersible 2 ☐ Jet 3 ☐ L.S. Turbine 4 ☐ Centrifugal 5 ☐ Reciprocating 6 ☐ _____

16. WATER WELL CONTRACTOR'S CERTIFICATION

This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.

Thein Well Co., Inc. 12013
Licensee Business Name — License No.

Address Clara City, Minnesota

Signed _____ Date _____
Authorized Representative

Michael Weis

2. FORMATION LOG

FORMATION	COLOR	HARDNESS OF FORMATION	FROM	TO
Black dirt TOPSOIL, ORGANIC			0	1½
Gray clay QTUV CLAY			1½	8
Sandy yellow clay QFUV CLAY		SAND	8	17
Sandy blue clay QFUV	CLAY, SAND		17	35½
Sand QFUV SAND			35½	43
Sandy blue clay QFUV	CLAY, SAND		43	52
Rocks QFUV COBBL			52	53
Sandy blue clay QFUV	CLAY, SAND		53	66½
Sand QFUV SAND			66½	67½
Sandy blue clay QFUV	CLAY, SAND		67½	77
Rock QTUV COBBL			77	77½
Sandy blue clay QFUV	CLAY, SAND		77½	80
~~Rock~~			80+	
Sandy blue clay QFUV	CLAY, SAND		80+	84+
Sand QFUV SAND			84+	89
Sandy blue clay QFUV	CLAY, SAND		89	106½
Rock QTUV	COBBL		106½	107
Sandy blue clay QFUV	CLAY, SAND		107	180
Rock QTUV	BOULDER		180	181
Sandy blue clay QFUV	CLAY, SAND		181	183
Sand QFUV SAND			183	185
Sandy blue clay QFUV	CLAY, SAND		185	221
Sand QFUV SAND			221	223
Sandy blue clay w/sand seams QFUV	CLAY, SAND		223	278½
Sand QFUV SAND			278½	282
Sandy blue clay QFUV	CLAY, SAND		282	342
Sand w/wood & clay QFUV	SAND, WOOD, CLAY		342	385
Sand QFUV SAND			385	392
Wood & Clay QFUV	CLAY, WOOD			
Granite broken PCAMB	GNEISS	683	392	393
No Water test hole				

Use a second sheet, if needed.

15. REMARKS, ELEVATION, SOURCE OF DATA, etc.

OIC

94-B

209575

DIVISION OF WATERS

JUL 25 1960

WELL LOG STATEMENT

File No. Hector

MAIL REPORT PROMPTLY TO DIRECTOR, DIVISION OF WATERS, STATE OFFICE BLDG., ST. PAUL 1, MINN.

Well No. 115.32.29 bad

DIVISION OF WATERS

Location of Well: Hector, Minn.

Locate Well on Plat of Section

Outlot C

Sec. 29

Twp. 115

Range 32

Hector

County

City or Town

Describe Further by Lot, Block, Nearest Highway, Street and Number

See PA 59-840

Drilled for: Village of Hector

Address

Driller: Thein Well Co, Inc

Address: Clara City, Minn.

NO2

Date of Completion: Sept 1, 1959

REPORT OF FINAL PUMPING TEST

Date of Test: Sept, 59

Site

Upland, Valley, Hillside, Etc.

Duration of Test: 24 Hrs. ____ Min.

Type of Well: Drilled

Dug, Driven, Bored, Drilled

Rate of Pumping: 500 GPM

Drill Rig Used: Solid tool

Solid Tool, Jet, Rotary

Static Water Level: 60' Ft.

Diameter: Top 12" Bottom

Water Level While Pumping: 160' Ft.

Depth of Well: 400'

Ft.

Ground Elevation: Level

Sea Level Datum or Give Distance Above

Time Required for Recovery

Expected Average Yield ____ Gal. per day

or Below R. R., Highway, Lake, Etc.

If Other Tests were Made, Give Details on Another Sheet.

Height of Casing Above Ground

Were Measurements Made of Effect on Other Nearby Wells During Test? Give Details.

Quality of Water

(Hard or Soft, Fresh or Salty, Etc.)

Temperature of Water

Was Laboratory Analysis Made? no.

For What Purpose Will Water Be Used?

domestic

Is Well Pumped? yes Pump Capacity ____ GPM 250

Is Well Sealed on Completion? yes

Does Well Overflow Without Pumping? no

Yes or No

Natural Flow ____ GPM

What Pressure, or Head, at Ground Level?

THE DATA CONTAINED HEREIN IS

1702

CONFIDENTIAL

Principal Aquifer Penetrated

CODED

	Director			Hydro Stud	
	Deputy			Reports	
	Secretary			Watersheds	
	Records		✓	Ground W.	
✓	Publ.			Surface W.	
✓	Library			Surveys	
	Permits			Drilling	
	Inspection			Kennitte Co	
	Drainage			well log file	

MINNESOTA DEPARTMENT OF CONSERVATION
DIVISION OF WATERS

File No. 207575

WELL LOG

Geologic Formations Kind, Color, Hard or Soft	Thickness of Formation	Depth in Feet From	Depth in Feet To	Casing Diam.	Water Conditions Found
Grey sandy clay & shale		0	360'	12"	none
Fine sand		360'	400'		Water.
					Indicate Size, Type, & Location of Any Screens, Gravel Packs, Grouting, or Other Development

I hereby certify that, to the best of my knowledge, the data presented in this statement is a true and correct representation of conditions encountered in the construction of this well.

Dated at Clara City, Minn. this 22 day of July, 1960

(Firm Name) Thein Well Co, Inc

By P. J. Thein

209514

FORM 9-1642
(1-68)

Well No. 115.32.29 ...

WELL SCHEDULE

U. S. DEPT. OF THE INTERIOR — GEOLOGICAL SURVEY — WATER RESOURCES DIVISION

Hector 94-E

elev. 10...

MASTER CARD

Record by C. Cox   Source of data Water Supt.   Date 4-24   Map Hector 7½'

State Minnesota [2 7]   County Renville Co. [6 5]

Latitude: [4 4 4 4 4 1 N]   Longitude: [0 9 4 4 3 2 1]   Sequential number: [1]

Lat-long accuracy: [2]   T 115 S, R 32 W, Sec 29, NE ¼ NE ¼ NW ¼ 5th B & M

Local well number: [1 1 5 N 3 2 W 2 9 B A A]   Other number: #2

Local use: [T H E I N]   Owner or name: Village of Hector

Owner or name: [V I L L A G E H E C T O R]   Address:

Ownership: (C) County, (F) Fed Gov't, (M) Municipal, (N) or (G) Corp or Co., Private, State Agency, Water Dist — [M]

Use of water: (A) Air cond, (B) Bottling, Comm, Dewater, Power, Fire, Dom, Irr, Med, Ind, P S, Rec, (S) Stock, (T) Instit, (U) Unused, (V) Repressure, Recharge, Desal-P S, Desal-other, Other — [H]

Use of well: (A) Anode, (D) Drain, (G) Seismic, (H) Heat Res, (Ø) Obs, (P) Oil-gas, (R) Recharge, (T) Test, (U) Unused, (W) Withdraw, (X) Waste, (Z) Destroyed. — [W]

DATA AVAILABLE: Well data [1]. Freq. W/L meas.: [Ø] Field aquifer char.

Hyd. lab. data:

Qual. water data type:

Freq. sampling: Pumpage inventory: yes, period: 1970

Aperture:

Log data:

DUPLICATE

CODED

WELL-DESCRIPTION CARD

SAME AS ON MASTER CARD   Depth well: 405' ft [4 0 5]   Meas. rept accuracy

Depth cased: (first perf.) ft   Casing type: ; Diam. 12 in [1 2]

Finish: (C) porous concrete, (F) gravel w. (perf.), (G) gravel w. (screen), (H) horiz. gallery, (Ø) open end, (P) perf., (S) screen, (T) sd. pt., (W) shored, (X) open hole, (Z) other

Method Drilled: (A) air rot, (B) bored, (C) cable, (D) dug, (H) hyd rot., (J) jetted, (P) air percussion, (R) reverse rotary, (T) trenching, (V) driven, (W) drive wash, (Z) other — [C]

Date Drilled: 8-1-59 [9 5 9]   Pump intake setting: ft

Driller: Thein (name), Clara City Minn. (address)

Lift (type): (A) air, (B) bucket, (C) cent, (J) jet, (L) multiple (cent.), (M) multiple (turb.), (N) none, (P) piston, (R) rot, (S) submerg, (T) turb, (Z) other — [T]   Deep / Shallow

Power (type): diesel, elec, nat gas, gasoline, hand, LP gas, wind; H.P. 20 [V]   Trans. or meter no.

Descrip. MP   ft above/below LSD, Alt. MP

Alt. LSD: 1083 [1 0 8 3]   Accuracy: (source) [4]

Water Level 47 ft above/below MP; Ft above/below LSD [4 7]   Accuracy: [4]

Date meas.:   Yield: 386 gpm [3 8 6]   Method determined

Drawdown: 63 ft [6 3]   Accuracy: [6]   Pumping period 47 hrs [4 7]

QUALITY OF WATER DATA: Iron 2.1 ppm [5]   Sulfate <45 ppm [0]   Chloride 20 ppm [1]   Hard. 340 ppm [7]

Sp. Conduct K x 10⁶   Temp. 51 °F [5 1]   Date sampled 4/7/71 [4 7 1]

Taste, color, etc.

1970 withdrawal 15,342,700 gallons

log?, Ms.

1083
1032
—
678
693

Total solids - 650
Alkalinity as CaCO3 - 640
pH 7.3
Manganese - .16
Nitrate ...
Ammonia N ...
Sodium as ...
... - 300
... 150

Sp. Cond. micromhos/cm @ 25°C - 1100

209514

Well No. _____

Latitude-longitude _____ N S
d m s d m s

HYDROGEOLOGIC CARD

SAME AS ON MASTER CARD (1–19) Physiographic Province: _____ 12 (20–21) Section: _____

B (22) Drainage Basin: _____ 28J (23–25) Subbasin: _____ (26)

Topo of well site: (D) depression, (C) stream channel, (E) dunes, (F) flat, (H) hilltop, (K) sink, (L) swamp, (Ø) offshore, (P) pediment, (S) hillside, (T) terrace, (U) undulating, (V) valley flat _____ (27) F

MAJOR AQUIFER: _____ system, _____ series (28–29) _____ aquifer, formation, group (30–31)

Lithology: _____ (32–33) Origin: _____ (34) Aquifer Thickness: _____ ft

(35–37) Length of well open to: _____ ft (38–40) Depth to top of: _____ ft (41–43)

MINOR AQUIFER: _____ system, _____ series (44–45) _____ aquifer, formation, group (46–47)

Lithology: _____ (48–49) Origin: _____ (50) Aquifer Thickness: _____ ft

(51–53) Length of well open to: _____ ft (54–56) Depth to top of: _____ ft (57–59)

Intervals Screened: _____

Depth to consolidated rock: _____ ft (60–63) Source of data: _____ (64)

Depth to basement: _____ ft (65–68) Source of data: _____ (69)

Surficial material: _____ (70–71) Infiltration characteristics: _____ (72)

Coefficient Trans: _____ gpd/ft (73–75) Coefficient Storage: _____ (76–78)

Coefficient Perm: _____ gpd/ft^2; Spec cap: _____ gpm/ft; Number of geologic cards: _____ (79)

1 log

topsoil + yellow clay ← QTUU CLAY 0 – 30

blue clay QTUU CLAY 30 – 170

Hard Sticky blue clay QTUU CLAY 170 – 340

fine sand QTUU SAND 340 – 380

medium sand QTUU SAND 380 – 390

— 690 —

broken granite PWUD 390 – 405 GRAN

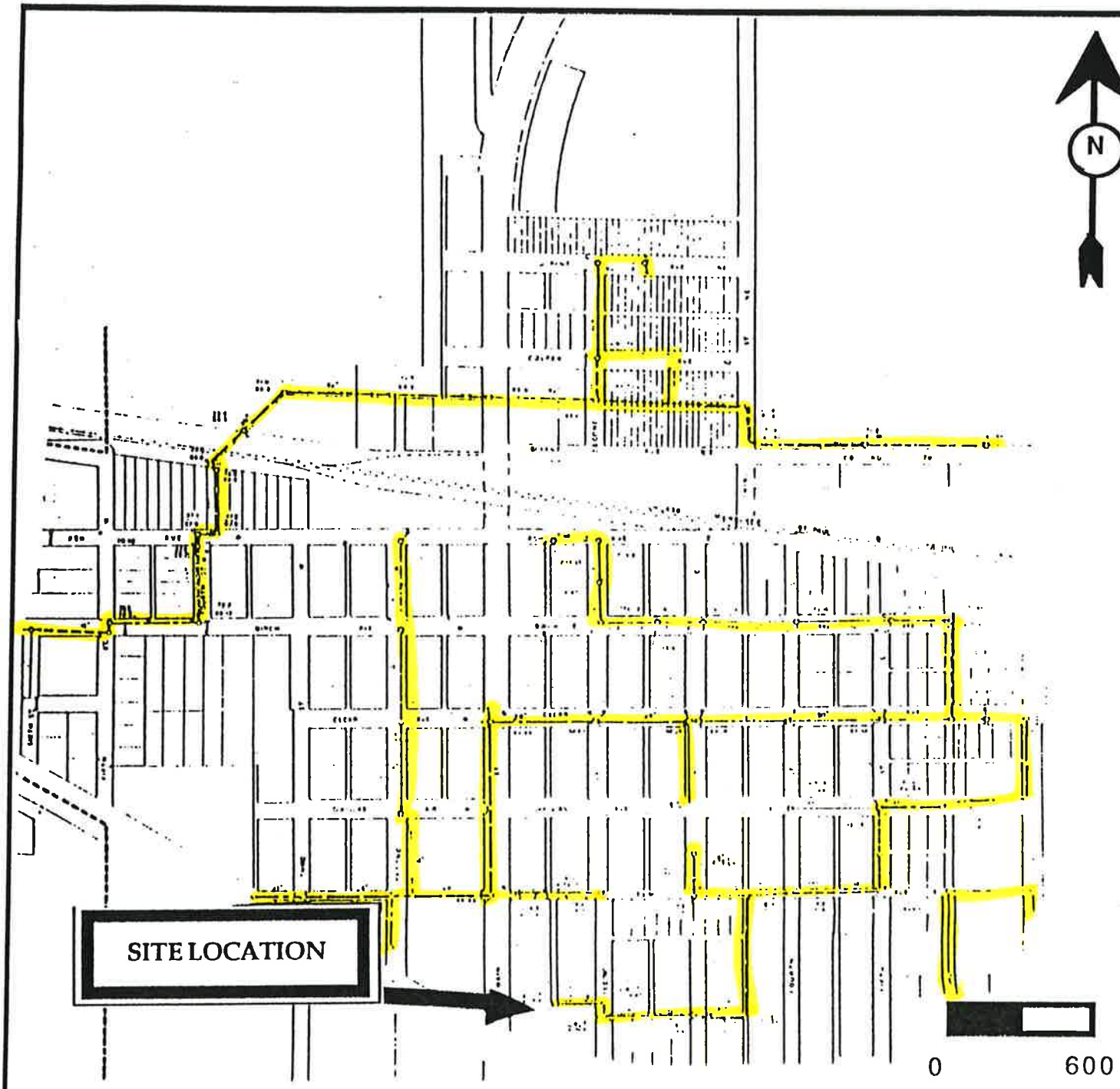
No

Well No.

GPO 937-142

APPENDIX E

RECEPTOR SURVEY



MIDWEST ENVIRONMENTAL CONTROL CORPORATION
3901 University Avenue NE
Minneapolis, Minnesota 55421
(612) 781-1647

Figure 5

City of Hector Storm Sewer System

Ralph Larson Chevrolet

MECC Project # 1070-0490

Date: 6/5/90	Prepared By: Barb Ryan
Scale: 1"=600'	Reviewed By:

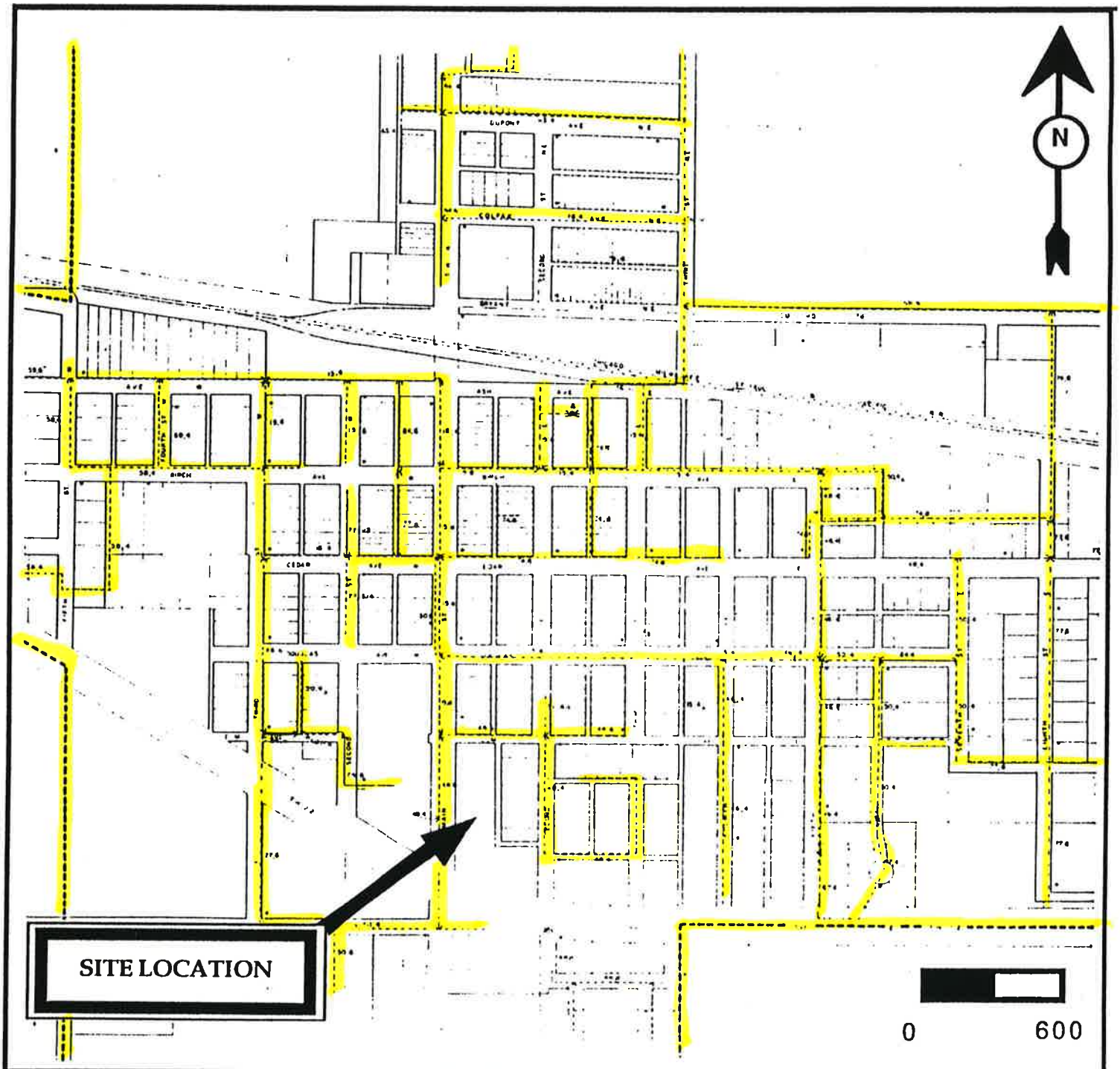


Figure 6

City of Hector
Water Works
System

Ralph Larson Chevrolet

MECC Project # 1070-0490

MIDWEST ENVIRONMENTAL CONTROL CORPORATION
3901 University Avenue NE
Minneapolis, Minnesota 55421
(612) 781-1647

Date:	Prepared By:
6/5/90	Barb Ryan
Scale:	Reviewed By:
1"=600'	

APPENDIX F

CAP FOR CONTAMINATED SOILS

Minnesota Pollution Control Agency
520 Lafayette Road, Saint Paul, Minnesota 55155
Telephone (612) 296-6300

Celebrate MINNESOTA 1990

June 8, 1990

Mr. Ralph Larson
Ralph Larson Chevrolet
531 South Main Street
Hector, Minnesota 55342

Dear Mr. Larson:

RE: Approval of Land Application of Petroleum Contaminated Soil
Site: Ralph Larson Chevrolet, Hector
Site ID#: LEAK00002426

The request submitted by your consultant dated May 22, 1990, to land apply approximately 65 cubic yards of petroleum contaminated soil is hereby approved by staff of the Minnesota Pollution Control Agency (MPCA). This approval is based upon the MPCA staff's understanding that the appropriate county and local officials have been notified and/or have given approval for the land application of this soil and is subject to the following additional conditions:

1. Stockpiled soils shall be protected from infiltration and runoff prior to land application.

2. Soil shall be applied to land located at Kasal Farm.

3. Soils shall be spread to a thickness of no more than four inches and incorporated into the top six inches of native soil per MPCA document "Land Application of Petroleum Contaminated Soil: Single Application Sites" (April 25, 1990). Soils shall be disked once per month during the growing season.

4. The land-applied soil shall be sampled and reports shall be submitted in accordance with part III.C of the MPCA land application document until analyses are 10 parts per million total petroleum hydrocarbons or lower. The MPCA form entitled "Soil Monitoring Results for Land-Applied Petroleum Contaminated Soil" should be used for reporting monitoring results.

We believe these actions will provide adequate treatment of petroleum contaminated soils. The MPCA reserves the right to require additional work if this is determined to be necessary to protect public health and the environment. This letter does not release any party from liability for this contamination.

Please contact me at 612/643-3426, if you have any further questions.

Sincerely,

Mark G. Koplitz

Mark Koplitz
Pollution Control Specialist
Tanks and Spills Section
Hazardous Waste Division

MP:jao

cc: Ed Homan, County Solid Waste Officer
Dan Benson, Collins Township Official
Barb Ryan, Midwest Environmental Control Corp.
Francis Kasal, Kasal Farm

APPLICATION TO LAND APPLY PETROLEUM CONTAMINATED SOIL

Minnesota Pollution Control Agency
Tanks and Spills Section
April 25, 1990

Refer to the Minnesota Pollution Control Agency (MPCA) document "Land Application of Petroleum Contaminated Soil: Single Application Sites" for specific information on acceptable soil and site criteria.

I. BACKGROUND INFORMATION

A. Tank owner/operator mailing address:

Contact: Ralph Larson
Company name: Ralph Larson Chevrolet
Street/Box: 531 South Main
City, Zip: Hector, MN 55342
Telephone: 612-848-6251

B. Site from which contaminated soil originated:

Company name: Ralph Larson Chevrolet
Street: 531 South Main
City, Zip: Hector, MN 55342
County: Renville

C. Address or legal descripton of land spreading site:

Contact: Kasal Landfarm
Street: Box 174A
City, Zip: Stewart, MN 55385
Telephone: (612) 562-2513

S 1/2 of SW 1/4 of Section 33, Township 115, Range 30 Township Name COLLINS

N1/2 of SW1/4 South of RR Sect. 33, TWP 115, Range 30 (TH #212-6.56 AC) .30 AC

D. Consultant (or other) preparing this form:

Midwest Environmental Control Corp.
Contact: Jeff Groen
Company name: MECC
Street/Box: 3901 University Avenue NE
City, Zip: Minneapolis, MN 55421
Telephone: (612) 781-1647

E. MPCA Site ID#: LEAK0000 2426

F. Volume of soil to be land applied (cubic yards): 65

G. Projected date of application of soil: Week of 5/27/90

H. Have there been past waste disposal activities at the proposed site?
No ___ Yes x , please explain.

II. SITE AND SOIL CHARACTERISTICS

A. Site slope (percent): Less Than 6%

B. Distance to surface water (feet or miles): 1/4 mile

C. Distance to nearest building or residence (feet): 1200'

D. Depth to seasonal high water table (feet): 18'
Depth to field tile lines (feet): Over 4' / 25' Set Back
If bedrock exists at 8 feet or less, indicate depth (feet): No

E. Area of land to be used (square feet or acres): 120 Acres

F. Spreading thickness (inches): Determined by MPCA ~~(4" Spreading Thickness)~~

III. SOIL SAMPLING RESULTS

A. If soil nutrient tests were conducted, list the results below:

Sample Number	Organic Matter, Percent	Extractable Phosphorus, ppm
FARM	CORP	LAND

If fertilizers will be applied, provide application rates:
120 lbs. nitrogen/acre, 80 lbs. P_2O_5/acre, 120 lbs. sulfur/acre

B. Circle the type(s) of petroleum contamination: unleaded gas, regular gas, diesel fuel, No. 2 fuel oil, waste oil, other (please specify) _____.

List the appropriate soil sample analytical results from the excavated contaminated soil (refer to the MPCA document "Soil and Ground Water Analysis at Petroleum Release Sites"). If the petroleum was not gasoline or fuel oil attach a separate table.

Sample Number	THC as gas or FO ppm	Benzene ppm	Ethyl-benzene ppm	Toluene ppm	Xylene ppm	MTBE ppm	Lead ppm
SP-1	<2.0	<10	-	<10	<10	0.044	140

NOTE: ATTACH COPIES OF LABORATORY RESULTS AND CHAIN OF CUSTODY FORMS

IV. FIGURES

Include the following figures:

A. Copy of county soil survey map (if the county has been mapped) with copies of the interpretation tables or interpretation sheets.
B. Site location map with exact application location marked (scale should be approximately one inch = 50 feet)

****

Signature and Title of MPCA Staff Inspector (or other authorized inspector):

Mark Koplitz Date Inspected : _____

Signature and Title of County Official: Edwin Homan - copies sent:

Signature and Title of City/Township Official: Dan Benson - Copies sent:

****

Mail to:

Minnesota Pollution Control Agency
Attention: (Project Manager)
Hazardous Waste Division
Tanks and Spills Section
520 Lafayette Road
St. Paul, Minnesota 55155

KASAL FARMS
Box 174A, Rural Route #1
Stewart, Mn 55395 (612) 562-2513

Multiple Leaksite Land Application
for
Petroleum Hydrocarbon Contaminated Soils

Date: 5/15/90

Spill Site Name: Larson Properties
Spill Site Location: Hwy 212 & Hwy 4, Hector, MN
MPCA Leak Number: 2415 MPCA Project Manager: Mark Koplitz
Consultant (Corporation & Individual): Midwest Environmental Control Corp. - Barbara Ryan
Tank Owner Name: Ralph Larson Address: 531 Main Street
Volume of Soil: 800 (yds.^{3}) -- (tons) Hector, MN 55342
Petroleum Contamination (gas, diesel, etc.): Gas phone: (612) 848-6251
Soil to be Temporarily Stockpiled? Yes / No Date Stockpiled: 4-11-90
Location of Stockpile: Kasal Farms, Box 174A, RR #1, Stewart, MN 55395
Name of Soil Hauler: J & M Trucking
Projected Date of Spreading: wk of 5-21 Method of Spreading: Flow Boy Spreading
Anticipated Thickness and Acreage of Spread Soils: 4 inches 1.5 acres
Method and Timing of Incorporation: Disk cultivate, once per month
First Proposed Sampling Date of Thin Spread Soils: August, 1990

Soil Sample Type & Chemical Analytical Results (ppm)

Sample I.D.	Soil Type	Total HC	Benzene	Toluene	E-benzene	Xylene	Lead	
SP-1	clay w/silt	170	<0.5	<0.5	1.1	7.6		
SP-2	clay w/silt	69	.046	.01	.59	2.4	17	

Above Information Supplied By: Barbara Ryan Date: 5-15-90
(Name)
Notification of Township Official: Dan Benson Date:
County Official: Ed Homan Date:
MPCA Official: Janet Berryhill Date:

Soil Chemical Analysis, & Spreading Location Map Attached

MIDWEST ENVIRONMENTAL CONTROL CORPORATION

m e c c
3901 University Ave. N.E.
Minneapolis, MN 55421
(612) 781-1647

SIEVE ANALYSIS

Project: Ralph Larson Chev. Job No.: 1070-0490
Originator: D. P. Waxmunski Date: 4-23-90

Soil Type: Clayey sand with some gravel

Weight of Container:	7.5 oz.		
Weight of Soil (Natural):	19.3 oz.	11.8 oz.	
Weight of Soil (Dry):	17.5 oz.		10 oz.
Weight of Water:		1.8 oz.	
Wt. Percent Moisture:		15.3%	
Weight of Soil and Sieve (Dry):		20.2 oz.	
Weight of Sieve:		12.9 oz.	
Weight of soil greater than 200 mesh:			7.3 oz.
Weight of soil less than 200 mesh:			2.7 oz.

Wt. Percent soil less than 200 mesh or 74 microns: 27%