

MEK

TANKS AND SPILLS SECTION

PETROLEUM TANK RELEASE REPORT

Report Taken by: *KF*

Date/Time Occurred:

Date/Time Reported: *11-13-90 1:15*

Date/Time Discovered: *11-13-90*

LEAK # *3524*

USTIS #

CALLER

Name: *JOHN DUSTMAN*

Phone: *770-1500*

Relationship to site:

*Terrace*

SITE

Name: *Contel*

Street: *130 Birch St. W.*

City: *Heeler*

Zip: *55342*

County: *Renoville*

Region: *IV*

SITE OPERATOR

Name:

Street:

City:

Zip:

Contact Person:

Phone:

TANK OWNER / OPERATOR

Name: *Contel of MN Inc*

Street: *1300 Mendota Heights Rd* P.O. Box *50770*

City: *Mendota Heights* Zip: *55150*

Contact Person: *William Halgworth*

Phone: *681-2519 COLLIN*

SITUATION

Material released/amount: *FO - for heating*

Source of release: *UST*

Release discovery: *Removal of UST*

TANK INFORMATION

| Contents  | Size        | Age   | Removed    | Condition        | Registered |
|-----------|-------------|-------|------------|------------------|------------|
| <i>FO</i> | <i>1000</i> | _____ | <i>yes</i> | <i>rust hole</i> | _____      |
| _____     | _____       | _____ | _____      | _____            | _____      |
| _____     | _____       | _____ | _____      | _____            | _____      |

State or Federal

Notification prior to removal:

MPCA, Fire Marshal, Excavation Contractor, Consultant present:

SOIL

Contaminated soil: *yes*

Contaminated soil excavated: *40 yd<sup>3</sup>*

Vapor readings: *50 ppm*

Soil samples: *yes*

Borings: *no*

Soil type: *silty clay w/ sand & gravel*

Stockpiled properly: *yes - at warehouse on Birch St. 1 1/2 blocks away*

Disposal arranged:

Was it a total excavation:

STAFF

SUPERVISOR  
DATE

PRIORITY

CONCLUSIONS

Devised scenario - ground water being

INFORMATION SENT

INSTRUCTIONS GIVEN  
Hire consultant  
Submit report  
Staff will call  
Contact staff

CONTACTS  
Local Fire/Police  
Local Officials  
Regional staff  
Other

SITE INFORMATION  
Description of the area:  
Previous release: *no*  
Other possible sources:

VAPOR  
Sewers: *no*  
Buildings: *no*

WATER  
Groundwater in excavation: *no*  
Free product present:  
Groundwater:  
City water: *?*  
Wells private/municipal:  
Surface water: *no*

MINNESOTA POLLUTION CONTROL AGENCY  
TANKS AND SPILLS SECTION  
SPILLS REPORT

6/90

Report taken by: *K7* Date/time occurred: \_\_\_\_\_  
Date/time of report: *11-13-90 1:15 pm* Date/time discovered: *11-13-90*

CALLER name: *John R. Rustman*  
phone: *770-1500*  
relationship to site: *Terricon*

MATERIAL RELEASED/AMOUNT  
*fuel oil*

MAJOR INCIDENT? Y N

LOCATION name: *130 Contel*  
street: *130 Birch St.*  
city, zip: *Hector*  
county: \_\_\_\_\_

SITUATION  
*one tank leak - 1,000 gal tank. Excavation revealed bottom tank leak*

SITE OWNER/RESPONSIBLE PARTY name: *Contel of Minn. Inc.*  
street: *1300 Mendota Hills Rd.*  
city, zip: *Mendota Hills 55150*  
county: *Collin Halberstam Ramsey 681-2519*

ACTIVITIES TO DATE  
Emergency Declared? Y N  
vapor water other  
Funding: *Tank excavation only* RP State  
Work Order # \_\_\_\_\_

AREAS AFFECTED  
groundwater \_\_\_\_\_  
sanitary sewer \_\_\_\_\_  
storm sewer \_\_\_\_\_  
soil \_\_\_\_\_  
surface water \_\_\_\_\_  
wells \_\_\_\_\_  
other \_\_\_\_\_

Site Visit? Y N Who? \_\_\_\_\_  
Clean up (specify): *UN*  
Sample? Y N Why? \_\_\_\_\_  
Analysis: \_\_\_\_\_

CONTACTS  
Local Fire/Police \_\_\_\_\_  
Local Officials \_\_\_\_\_  
MPCA Region \_\_\_\_\_  
County \_\_\_\_\_  
DEM \_\_\_\_\_  
MDA \_\_\_\_\_  
DNR \_\_\_\_\_  
MDH \_\_\_\_\_  
MDOT \_\_\_\_\_  
Other \_\_\_\_\_

Storage Location: \_\_\_\_\_  
Contact person: \_\_\_\_\_  
Phone: \_\_\_\_\_

Disposal Arranged? \_\_\_\_\_  
Submit Report? Y N  
Date Case Closed: \_\_\_\_\_



## Minnesota Pollution Control Agency

520 Lafayette Road, Saint Paul, Minnesota 55155-3898

Telephone (612) 296-6300

December 6, 1991

Mr. Colin Holzworth  
Contel of Minnesota  
P.O. Box 50770  
Mendota Heights, Minnesota 55118

Dear Mr. Holzworth:

RE: Petroleum Contaminated Soil Land Application Site Monitoring Results  
Site: Contel, 130 Birch Street West, Hector  
Site ID#: LEAK00003524

On August 9, 1991, the Minnesota Pollution Control Agency (MPCA) staff issued a conditional petroleum tank release site closure letter for the site referenced above. The conditional closure letter specified that additional follow-up soil analysis as outlined in part III.C of the MPCA document "Land Application of Petroleum Contaminated Soil: Single Application Sites" (April 25, 1990) is still required. The MPCA staff has received and reviewed the monitoring results for soil samples collected at the land-application site on October 15, 1991. The file regarding this petroleum tank release will now be closed.

If you have any questions, please contact me at 612/297-8611.

Sincerely,

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

MK:np

cc: Greg Oothoudt, Summit Environmental Inc., Minneapolis  
Bob Mathews, Glencoe  
Edwin Homan, McLeod County Solid Waste Officer, Glencoe

**SUMMIT**  
ENVIRONMENTAL  
ENGINEERING &  
CONSULTING, INC.

**RECEIVED**

NOV 02 1991

MPCA, HAZARDOUS  
WASTE DIVISION

November 25, 1991

Mr. Mark Koplitz  
Minnesota Pollution Control Agency  
Hazardous Waste Division  
Tanks and Spills Section  
520 Lafayette Road  
St. Paul, Minnesota 55155

Subject: Soil Monitoring Results for Land-Applied Petroleum Contaminated Soil  
MPCA LEAK ID#: 00003524  
SUMMIT No. 910440

Dear Mr. Koplitz:

On behalf of our client, GTE, we are submitting the soil monitoring results for land-applied contaminated soil. Thank you very much for your cooperation. If you have any questions please contact our office.

Sincerely,

**SUMMIT ENVIRONMENTAL ENGINEERING  
& CONSULTING, INC.**



Jeffrey L. Buchowiski  
Environmental Technician

Attachment

/jlb

cc: Mr. Dennis Peterson

SOIL MONITORING RESULTS FOR LAND-APPLIED PETROLEUM CONTAMINATED SOIL

Minnesota Pollution Control Agency  
Tanks and Spills Section  
May 1990

This form should be used for reporting the results of follow-up soil sampling where petroleum contaminated soil has been land applied. Refer to the Minnesota Pollution Control Agency (MPCA) document "Land Application of Petroleum Contaminated Soil: Single Application Sites" (May 1, 1991) for specific information on soil sampling.

A. Tank Owner/Operator: GTE

Petroleum Release Site: 130 Birch St. W. Hector, MN.

MPCA Site ID#: LEAK0000 3524

B. Address or legal description of land application site: Mathew's Farm

Street: 12897 Falcon Ave. City: Glencoe, MN. 55336

NW ¼ of NE ¼ of Section 1, Township 115N, Range 28W, Township Name Glencoe

C. Consultant (or other) preparing this form: Summit Environmental Eng. & Consl.

Contact: Greg Oothoudt Phone: (612) 333-5050

D. Actual date soil was land applied: 6/6/91

E. Dates that tillage was done (since land application or the most recent monitoring report):

8/9/91, 7/10/91

F. Soil sampling date: 10/15/91

G. List the soil sample analytical results from the land application site. For petroleum products other than gasoline and fuel oil, refer to the MPCA document "Soil and Ground Water Analysis at Petroleum Release Sites" for analyses to report and attach a separate results table.

| Sample I.D. | Total Hydrocarbons as <u>Gas</u> or Fuel Oil ppm (circle one) | Sample I.D. | Total Hydrocarbons as Gas or <u>Fuel Oil</u> ppm (circle one) |
|-------------|---|-------------|---|
| 10151055    | <1  | 10151055    | <1  |
| _____       | _____   | _____       | _____   |
| _____       | _____   | _____       | _____   |

NOTE: COPIES OF LABORATORY RESULTS AND CHAIN OF CUSTODY FORMS MUST BE ATTACHED

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



# A.W. Research Laboratories

711 Laurel Street • Brainerd, MN 56401

Phone: (218) 829-7974

10/23/91

**COPY**

SUMMIT ENVIRONMENTAL ENG., INC  
708 N FIRST STREET  
MINNEAPOLIS, MN 55401

*Contel Hectre (see Chain of Custody)*

ANALYSIS CODE: 8126  
MATRIX: SOIL

SITE LOCATION: ~~ZELLMAN OIL~~/MATHER'S LAND FARM  
JOB NUMBER:  
WELL/BORING NUMBER: 10151055

DATE COLLECTED: 10/15/91

COLLECTED BY: JLB

DATE RECEIVED: 10/16/91

DATE ANALYZED: 10/22/91  
ANALYZED BY: MARK ENGEN

| ANALYTE                    | RESULTS        | MDL      |
|----------------------------|----------------|----------|
| BENZENE, PPB               | LESS THAN 5    | 5 PPB    |
| TOLUENE, PPB               | LESS THAN 5    | 5 PPB    |
| ETHYLBENZENE, PPB          | LESS THAN 5    | 5 PPB    |
| XYLENE, PPB                | LESS THAN 15   | 15 PPB   |
| FID SCAN FOR GASOLINE, PPB | LESS THAN 1000 | 1000 PPB |
| FID SCAN FOR FUEL OIL, PPB | LESS THAN 1000 | 1000 PPB |
| MTBE, PPB                  | LESS THAN 10   | 10 PPB   |

\* MDL = METHOD DETECTION LIMIT

APPROVED BY:

THANK YOU.

**COPY**

A.W. Research Laboratories  
711 Laurel Street  
Brainerd, MN 56401

CHAIN OF CUSTODY FORM

Client: *Zellman Oil Mathers Land Farm*  
*40 Summit Environmental*  
Facility/site location:

Sample Matrix: *SOIL*

SAMPLING INFORMATION:

| Well/boring number                 | <i>SE Wroge Farm</i> | <i>NW Wroge Farm</i> | <i>Central Hecker Mathers Farm</i> |
|------------------------------------|----------------------|----------------------|------------------------------------|
| Date/time sampled <i>Summit no</i> | <i>10141530</i>      | <i>10141555</i>      | <i>10151055</i>                    |
| Sample depth/location              |                      |                      |                                    |
| Sampling method                    | <i>Composite</i>     | <i>Composite</i>     | <i>Composite</i>                   |
| Number of containers               | <i>one</i>           | <i>one</i>           | <i>one</i>                         |
| AWRL Code Number                   | <i>8124 ✓</i>        | <i>8125 ✓</i>        | <i>8126</i>                        |
| <u>ANALYSES:</u>                   |                      |                      |                                    |
| BTEX                               |                      |                      |                                    |
| MTBE                               |                      |                      |                                    |
| GASOLINE                           | <i>X</i>             | <i>X</i>             |                                    |
| FUEL OIL                           | <i>X</i>             | <i>X</i>             | <i>X</i>                           |

FIELD MEASUREMENTS:

|                             |  |  |  |
|-----------------------------|--|--|--|
| Sample descr. (color, odor) |  |  |  |
| Temp.                       |  |  |  |
| pH                          |  |  |  |
| Conductivity                |  |  |  |

Weather conditions *windy 40°F windy 40°F winds 40'S*  
General remarks: (i.e. problems encountered that could affect results, changes in pH, temp, conductivity)

CHAIN OF POSSESSION:

Sample Containers Prepared by: *Barbara Gookey*, AWRL Date *4/4/91*

Sample containers accepted by:  
Name Agency Date

Field sample obtained by:  
Name *Jeff L. Burkhardt* Agency Date

Samples relinquished by Samples received by Date Time

*Jeff Burkhardt*

*10/16/91*



COPY



# Minnesota Pollution Control Agency

520 Lafayette Road, Saint Paul, Minnesota 55155-3898

Telephone (612) 296-6300

August 9, 1991

Mr. Colin Holzworth  
Contel of Minnesota  
P.O. Box 50770  
Mendota Heights, Minnesota 55118

Dear Mr. Holzworth:

RE: Conditional Petroleum Tank Release Site Closure/Off-Site Soil Analysis Required  
at Land Application Site  
Site: Contel, 130 Birch Street West, Hector  
Site ID#: LEAK00003524

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 additional remedial investigation or corrective action will not be required. However, follow-up soil analysis as outlined in part III.C of the MPCA document "Land Application of Petroleum Contaminated Soil: Single Application Sites" (April 25, 1990) is still required. The MPCA form "Soil Monitoring Results for Land-Applied Petroleum Contaminated Soil" should be used for reporting results. The file regarding this release will be closed when monitoring results indicate that soil at the land application site has been adequately treated. Failure to fulfill monitoring requirements may result in MPCA staff recommending a reduction in potential Petroleum Tank Compensation Account reimbursement.

On November 13, 1990, a petroleum tank release was reported to the MPCA. Since then the following corrective action has been taken in response to the release:

1. One 1,000 gallon fuel oil underground storage tank was removed from the site.
2. Approximately 40 cubic yards of petroleum contaminated soils were excavated. Soil removal ceased when petroleum vapor readings, utilizing the jar headspace technique, diminished to below the MPCA action level of 1 part per million (ppm). Laboratory analysis of a soil sample from the base of the completed excavation did not detect total hydrocarbons as fuel oil. However, samples with readings of 15 to 30 ppm were observed from the north and east sidewalls of the excavation at a depth of eight feet below grade.

Mr. Colin Holzworth  
Page 2  
August 9, 1991

3. Contaminated soils were land applied at the Bob Mathews Farm, Route 2, Box 233, Glencoe, Minnesota. Legal description of the landfarmint facility is the NE 1/4 of Section 1, Township 15N, Range 28W, Glencoe Township, McLeod County.

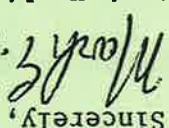
4. Two soil borings were advanced to define the vertical extent of petroleum contamination. Laboratory analysis of soil samples collected from the base of each borehole did not detect total hydrocarbons as fuel oil. Ground water was not observed at the test boring location.

5. A potential receptor survey was completed for the site. No evidence of petroleum vapors were observed.

Based on the currently available information, we concur with the conclusions of Summit Environmental, Engineering and Consulting that these actions have adequately addressed the petroleum tank release. Therefore, MPCA staff does not intend to require any more investigation or cleanup 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 cleanup costs. This fund is administered by the Petroleum Tank Release Compensation Board (Petro Board). More specific eligibility rules are available from the Petro Board (612/297-4017).

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 Koplitz

Pollution Control Specialist  
Tanks and Spills Section  
Hazardous Waste Division

MK:np

cc: John Dustman, Summit Environmental, Engineering and Consulting, Inc.,  
Minneapolis  
Doris Richter, City Clerk, Hector

# SUMMIT

ENVIRONMENTAL  
ENGINEERING &  
CONSULTING, INC.

## FACSIMILE TRANSMITTAL COVER SHEET

DATE: July 30, 1991

TO: Mr. Mark Koplitz

COMPANY: Minnesota Pollution Control Agency

FAX #: 297-8676

SENDER: Greg Oothoudt

NO. OF PAGES (INCL. COVER SHEET): 3

COMMENTS: Chain of Custody for Contel Hector.

Thanks Mark!

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

If any pages have not been received, please  
call (612) 333-5050 as soon as possible.

No. 9105-111

CHAIN OF CUSTODY

SERCO LABORATORIES  
1931 WEST COUNTY ROAD C-2  
ST. PAUL, MN 55113  
612-636-7173  
FAX 612-636-7178

SAMPLING ADDRESS: 190 Birch Ave N.

HESTER, MN

SAMPLER: (Signature) JOHN DUSTMAN  
(SIGNATURE)

COMPANY: GERM'S TANK SERVICE CO TEARACON

PROJECT SUPERVISOR: JOHN DUSTMAN

ADDRESS: 3504 HOFFMAN ROAD EAST

WASL, MN 55110

TELEPHONE: 612 770-1500

FAX: 770-1657

SAMPLE LOT NUMBER \_\_\_\_\_ DISCREPANCY YES NO  
COOLER NUMBER \_\_\_\_\_ CLIENT NOTIFIED \_\_\_\_\_  
TEMPERATURE OF COOLER ON RECEIPT AT LABORATORY \_\_\_\_\_

| SAMPLE NUMBER | DATE     | TIME | METHOD | SAMPLE TYPE | SITE LOCATION | NUMBER AND TYPE OF BOTTLES | REMARKS                 |
|---------------|----------|------|--------|-------------|---------------|----------------------------|-------------------------|
| 11140915      | 11.14.90 | 9:15 | GRAB   | SOIL        | 12'           | 1 S.J.                     | P.F.D. = 0              |
| 11140920      | 11.14.90 | 9:30 | GRAB   | SOIL        | Stockpile     | 1 S.J.                     | P.F.D. = 27             |
|               |          |      |        |             |               |                            | RUN BTEX<br>TAC AS F.O. |
|               |          |      |        |             |               |                            |                         |
|               |          |      |        |             |               |                            |                         |
|               |          |      |        |             |               |                            |                         |

| RELINQUISHED BY                 | DATE     | TIME     | RECEIVED BY (SIGNATURE AND COMPANY)  |
|---------------------------------|----------|----------|--------------------------------------|
| <u>(Signature) JOHN DUSTMAN</u> | 11.16.90 | 3:46 AM  | <u>Shari Valente</u> 11/16/90 3:50pm |
| 2.                              |          | AM<br>PM |                                      |
| 3.                              |          | AM<br>PM |                                      |
| 4.                              |          | AM<br>PM |                                      |
| 5.                              |          | AM<br>PM |                                      |





# Minnesota Pollution Control Agency

520 Lafayette Road, Saint Paul, Minnesota 55155-3898

Telephone (612) 296-6300



May 15, 1991

Mr. Colin Holzworth  
Contel of Minnesota, Incorporated  
P.O. Box 50770  
Mendota Heights, Minnesota 55150

Dear Mr. Holzworth:

RE: Approval of Land Application of Petroleum Contaminated Soil  
Site: Contel, 130 Birch Street West, Hector  
Site ID#: LEAK00003524

The request submitted by your consultant dated May 10, 1991, to land apply approximately 40 cubic yards of petroleum contaminated soil from the above-referenced site 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:

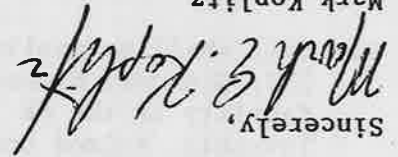
1. Stockpiled soils shall be protected from infiltration and runoff prior to land application.
2. Soil shall be applied to land located at the Mathews Farms, Route 2, Box 233, Glencoe, Minnesota, 55336. Legal Description of the landfarming facility is the NE 1/4 of Section 1, Township 115N, Range 28W, Glencoe Township, McLeod County. The specific facility plot and subplot utilized shall be clearly identified by leaksite number on maps maintained by Mathews Farms. The soil shall be spread as uniformly as possible within the land application subplot.
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.

Mr. Colin Holzworth  
Page 2  
May 15, 1991

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 Koplitz

Pollution Control Specialist  
Tanks and Spills Section  
Hazardous Waste Division

MK:np

cc: Bob Mathews, Mathews Farms

Edwin Homan, Solid Waste Officer, McLeod County

Bud Phillips, Township Chairman, Glencoe

Greg Oothoudt, Summit Environmental Engineering and Consulting,

Inc., Minneapolis



Mr. Colin Holzworth  
Contel of Minnesota, Incorporated  
P.O. Box 50770  
Mendota Heights, Minnesota 55150

Dear Mr. Holzworth:

RE: Approval of Land Application of Petroleum Contaminated Soil  
Site: Contel, 130 Birch Street West, Hector  
Site ID#: LEAK00003524

The request submitted by your consultant dated May 10, 1991, to land apply approximately 40 cubic yards of petroleum contaminated soil from the above-referenced site 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 the Mathews Farms, Route 2, Box 233, Glencoe, Minnesota, 55336. Legal Description of the landfarming facility is the NE 1/4 of Section 1, Township 115N, Range 28W, Glencoe Township, McLeod County. The specific facility plot and subplot utilized shall be clearly identified by leaksite number on maps maintained by Mathews Farms. The soil shall be spread as uniformly as possible within the land application subplot.
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 Koplitz  
Pollution Control Specialist  
Tanks and Spills Section  
Hazardous Waste Division

cc: Bob Mathews, Mathews Farms  
Edwin Homan, Solid Waste Officer, McLeod County  
Bud Phillips, Township Chairman, Glencoe  
Greg Oothoudt, Summit Environmental Engineering and Consulting,  
Inc., Minneapolis

bcc: St. Paul Office Project Manager  
Regional Specialist  
Journal  
Soil Treatment Log (Ann Bidwell)

ADDRESSES

=====

Bob Mathews - Route 2, Box 233, Glencoe MN 55336  
Edwin Homan - McLeod County, 830 11th Street East, Glencoe MN 55336  
Bud Phillips - Rural Route 1, Box 109, Glencoe 55336  
Greg Oothoudt - 708 North First Street, Suite 233, Mpls. 55401



## Minnesota Pollution Control Agency

520 Lafayette Road, Saint Paul, Minnesota 55155-3898

Telephone (612) 296-6300



January 7, 1991

Mr. Collin Holzworth  
Contel of Minnesota Incorporated  
P.O. Box 50770  
Mendota Heights, Minnesota 55150

Dear Mr. Holzworth:

RE: Petroleum Storage Tank Release Investigation and Corrective Action  
Site: Contel, 130 Burch Street, Ector  
Site ID#: LEAK00003524

The Minnesota Pollution Control Agency (MPCA) has received notification that a release of petroleum has occurred from storage tank facilities which you own and/or operate.

Federal and state laws require that persons legally responsible for storage tank releases notify the MPCA of the release, investigate the extent of the release and take actions needed to ensure that the release is cleaned up. A person is generally considered legally responsible for a tank release if the person owned or operated the tank either during or after the release.

We are aware that an initial investigation of the site has occurred and petroleum contaminated soils and/or ground water have been identified. The MPCA staff is therefore requesting you to take the necessary steps to investigate and clean up the release in accordance with the enclosed MPCA technical documents. If you have not already done so, we recommend that you hire a qualified consulting firm who has experience in conducting petroleum release site investigations and taking corrective actions. In addition, you must notify the MPCA within 24 hours if you discover free-floating petroleum product on the surface of the ground water.

If you do perform 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 cleanup costs. This fund is administered by the Petroleum Tank Release Compensation Board (Petro Board). More specific eligibility rules are available from the Petro Board (612/297-4017).

Mr. Collin Holzworth  
Page 2  
January 7, 1991

Please respond to this letter either in writing or by telephone within 30 days after you receive it. Indicate whether or not you intend to proceed with the necessary actions, whom you have chosen to do the work, and a schedule for implementation. Please use the site ID number at the top of this page on all written communication.

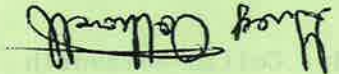
If you do not respond within 30 days, MPCA staff will assume you do not intend to comply with this request. In this event, the MPCA Commissioner may order you to take corrective action at the site. If you do not comply with the Commissioner's order, it may be enforced in court or, alternatively, the MPCA could spend its own money cleaning up the release and then seek to recover its costs from you or other responsible persons through legal action. Failure to cooperate with the MPCA in a timely manner may also result in reduced reimbursement from the Petro Board.

If you conclude that the release in question is not from any tank which you have owned or operated, please notify the MPCA immediately and explain the basis of your conclusion.

A packet of fact sheets is enclosed for your information.  
For site specific questions, contact the site's project manager, Mark Koplitz, at 612/643-3426. In addition, all future correspondence should be addressed to the above mentioned project manager. If you have any general questions regarding the leaking underground storage tank program please call me at 612/643-3436.

Thank you.

Sincerely,



Greg T. Oothoudt

Pollution Control Specialist  
Tanks and Spills Section  
Hazardous Waste Division

GT0:np

Enclosures

cc: Doris Richter, City Clerk, Hector  
Jon Hintze, Fire Chief, Hector

**SUMMIT**  
ENVIRONMENTAL  
ENGINEERING &  
CONSULTING, INC.

890  
6/10/91  
JAK

June 11, 1991

Mr. Collin Holzwarth  
Contel of Minnesota, Inc.  
P.O. Box 50770  
St. Paul, Minnesota 55150

Subject: Report Transmittal  
Contel of Minnesota  
Hector Site  
130 Birch Street  
Hector, Minnesota  
SUMMIT No. 910440

Dear Collin:

We have enclosed a copy of our report regarding our assessment at the referenced site.

Please refer to the report for the scope of services, project activities, conclusions, recommended corrective actions, and limitations of the assessment provided by SUMMIT ENVIRONMENTAL ENGINEERING & CONSULTING, INC. (SUMMIT).

Upon your approval, a copy of this report will be forwarded to the Minnesota Pollution Control Agency (MPCA) for their review and comment.

Sincerely,

**SUMMIT ENVIRONMENTAL ENGINEERING &  
CONSULTING, INC.**



John E. Dustman  
Principal Hydrogeologist

**REMEDIAL INVESTIGATION AND  
RECOMMENDED CORRECTIVE ACTIONS**

Contel of Minnesota  
130 Birch Street  
Hector, Minnesota

SUMMIT No. 910440

Prepared By:

**SUMMIT ENVIRONMENTAL ENGINEERING & CONSULTING, INC.**  
708 North First Street, Suite 233  
Minneapolis, MN 55401

June 11, 1991

## TABLE OF CONTENTS

|   |   |
|---|---|
| <b>1.0 EXECUTIVE SUMMARY</b> .....                        | 1 |
| <b>2.0 INTRODUCTION</b> .....                             | 1 |
| 2.1 Purpose and Scope .....                               | 1 |
| 2.2 Background Information .....                          | 1 |
| 2.3 Regional Geology and Hydrogeology .....               | 2 |
| 2.4 Previous Assessment .....                             | 2 |
| <b>3.0 FIELD ACTIVITIES</b> .....                         | 3 |
| 3.1 Soil Borings .....                                    | 3 |
| 3.2 Soil Screening for Organic Vapors .....               | 4 |
| 3.3 Soil Sampling for Chemical Analysis .....             | 4 |
| <b>4. PROJECT RESULTS</b> .....                           | 4 |
| 4.1 Subsurface Lithology .....                            | 4 |
| 4.2 Groundwater Observations .....                        | 4 |
| 4.3 Contaminant Observations .....                        | 4 |
| 4.4 Results of Chemical Analysis .....                    | 5 |
| <b>5.0 POTENTIAL RECEPTORS</b> .....                      | 5 |
| <b>6.0 DISCUSSION/CONCLUSIONS</b> .....                   | 5 |
| <b>7.0 RECOMMENDED CORRECTIVE ACTIONS</b> .....           | 6 |
| <b>8.0 LIMITATIONS OF ENVIRONMENTAL ASSESSMENTS</b> ..... | 6 |
| 8.1 Site Data .....                                       | 6 |
| 8.2 Sample Collection and Analysis .....                  | 6 |
| 8.3 Final Report and Interpretation of Results .....      | 6 |

## TABLE OF CONTENTS (CONTINUED)

### List of Figures

|          |                       |
|----------|-----------------------|
| Figure 1 | Site Location Map     |
| Figure 2 | Site Map              |
| Figure 3 | Test Boring Locations |

### List of Appendices

|            |                      |
|------------|----------------------|
| Appendix A | Chemistry Reports    |
| Appendix B | Geologic Logs        |
| Appendix C | Well Logs            |
| Appendix D | MPCA Approval Letter |



**REMEDIAL INVESTIGATION AND  
RECOMMENDED CORRECTIVE ACTIONS**

**CONTEL OF MINNESOTA  
HECTOR SITE  
130 BIRCH AVENUE  
HECTOR, MINNESOTA  
MPCA SITE ID#: LEAK00003524  
SUMMIT PROJECT NO. 910440**

**1.0 EXECUTIVE SUMMARY**

SUMMIT ENVIRONMENTAL ENGINEERING & CONSULTING, INC. (SUMMIT) has completed a remedial investigation at the referenced site. We believe that the majority of the petroleum contaminated soil was excavated at the time that the underground storage tank was removed. Impacts to groundwater resources or other potential receptors were not identified. We recommend that no additional subsurface investigation is necessary based on the results of the assessment and the corrective actions performed at the site.

**2.0 INTRODUCTION**

**2.1 Purpose and Scope**

The purpose of this report is to present the data, results, conclusions, and recommendations regarding work performed by SUMMIT and others at the administrative office of Contel of Minnesota located at 130 Birch Street in Hector, Minnesota. SUMMIT was authorized by Mr. Collin Holzwarth of Contel of Minnesota to perform the following scope of services:

- \* Observe the advancement of two soil borings and collect soil samples for organic vapor screening and chemical analysis,
- \* Complete a receptor impact analysis,
- \* Prepare a report summarizing the data and presenting recommendations for corrective actions.

**2.2 Background Information**

The site is located in Renville County, Township 115 North, Range 32 West, Section 29 (AACB) at 130 Birch Avenue in Hector, Minnesota (Figure 1). The site is owned by Contel

of Minnesota and used as an administrative office building. The site is located in a light commercial and retail area.

One underground storage tank (UST) was formerly located on the north side of the building, as shown on Figure 2. The UST had 1,000 gallon capacity and contained No. 2 fuel oil used for heating purposes.

### 2.3 Regional Geology and Hydrogeology

The area topography is relatively flat with surface elevations between 1,080 and 1,090 feet above mean sea level (Hector Quadrangle, 7.5 Minute Series, USGS topographic map).

The geology of the area is characterized by approximately 370 feet of glacial deposits overlying Precambrian bedrock consisting of granite, gneiss, and schist. The glacial sediments consist of gray till (an unsorted, unstratified mixture of clay, silt, sand, and gravel deposited by a glacier). Groundwater occurrence within the till often coincides with buried lenses of silt, sand, and gravel. These aquifers are often confined in the area (northeast of Hector) and may yield large quantities of water. Wells completed in confined, buried sand and gravel deposits are greater than 200 feet deep with over 120 feet of available drawdown (Hydrologic Investigations Atlas HA-528, Water Resources of the Crow River Watershed, South Central Minnesota, USGS, 1974, plates 2 and 3).

### 2.4 Previous Assessment

Previous work at the site performed by Terracon Environmental, Inc. (Terracon) consisted of observation of the UST excavation. The 1,000 gallon fuel oil UST was removed on November 13, 1990. In summary, limited subsurface hydrocarbon contamination was observed and excavated during the UST removal. Approximately 35 cubic yards of petroleum contaminated soil were removed and stockpiled within plastic sheeting approximately ¼ mile east of the Contel office building at a maintenance shop. The soil encountered in the UST basin consisted of black, gray and brown clay, characteristic of the till deposits common to this area.

Soil was screened for the presence of organic vapors using a photoionization detector (PID) equipped with a 10.2 eV lamp and calibrated to read in parts per million (ppm)

volume/volume of benzene. PID readings ranged from 0 to over 80 ppm in the soil samples collected from the UST basin.

Once PID readings below 1 ppm were observed, a soil sample was collected from the bottom of the excavation and was submitted by Terracon to an analytical laboratory for analysis of benzene, toluene, ethyl benzene, xylenes, and total hydrocarbons as fuel oil. The tested parameters were not detected above method detection limits in this soil sample. A copy of the laboratory report is included in Appendix A.

Because of the location of the UST in a corner of the building and close proximity to a city sidewalk (Figure 2), excavation of petroleum contaminated soil was not continued after the vertical extent had been determined. It appeared that a thin (less than 1 inch) stringer of silt and sandy silt was present within the clay at approximately 8 feet below grade on the north side of the UST basin. Sand and gravel thought to be fill materials were observed on the east and south sides of the excavation (beneath the building). The west and south sides of the excavation were did not contain measurable concentrations of organic vapors, based on soil screening of samples collected by the backhoe. However, samples with PID readings of 15 to 30 ppm were observed in samples collected from the north and east sides of the excavation.

Based on these observations, a test boring program was designed to evaluate the horizontal extent of the contamination and to evaluate impacts to buried utilities.

### 3.0 FIELD ACTIVITIES

#### 3.1 Soil Borings

On April 16, 1991, SUMMIT observed the advancement of two soil borings (B-1 and B-2) at the locations shown on Figure 3. The soil boring program was implemented to evaluate the lateral extent of the contamination and to determine impacts to buried utilities.

The soil borings were advanced by Thein Well Drilling Company using 3¼-inch outside diameter flight augers. This method resulted in the retrieval of continuous soil samples to enable evaluation of the presence and distribution of the contamination.

### 3.2 Soil Screening for Organic Vapors

Soil samples collected from the borings were screened for the presence of organic vapors using an Hnu photoionization detector (PID) equipped with a 10.2 electron volt lamp and calibrated for direct readings in parts per million volume/volume of benzene. The PID was calibrated before and after the field work at a span setting of 6.87 (unitless). A headspace screening technique was used pursuant to MPCA guidelines. Soil samples were also screened immediately upon withdrawal of the flight auger.

### 3.3 Soil Sampling for Chemical Analysis

Two soil samples were submitted for chemical analysis of benzene, toluene, ethyl benzene, and xylenes (BTEX), and total hydrocarbons as fuel oil. Soil samples collected at B-1 (15 feet bg) and B-2 (13 feet bg) were submitted. These soil samples were collected to verify the field PID readings.

## 4. PROJECT RESULTS

### 4.1 Subsurface Lithology

The soil boring program verified that the subsurface geology is characterized by predominantly clay soil with varying degrees of moisture, plasticity, and hardness. Logs of the soil borings are presented in Appendix B.

### 4.2 Groundwater Observations

Groundwater was not observed at the test boring locations.

### 4.3 Contaminant Observations

Organic vapors were not detected at borings B-1 or B-2.

#### 4.4 Results of Chemical Analysis

The chemical analysis results (Btex and total hydrocarbons as fuel oil) indicated that the tested parameters were not detected above method detection limits. The laboratory report and chain-of-custody documentation are included in Appendix A.

#### 5.0 POTENTIAL RECEPTORS

A receptor impact analysis was performed to evaluate the potential impact from the observed release to buried utilities and structures. The analysis identified a buried sanitary sewer north of centerline of Birch Avenue (Figure 2). The sanitary sewer is reportedly buried at a depth of 8 feet in this area. The PID was used to screen vapors at three manhole locations along Birch Street. No evidence of organic vapors was observed at these locations.

The Contel building does not have a basement; however, an approximate 10 foot by 5 foot line room is beneath the center of the building and is accessible by ladder. This area was screened by Terracon using a PID during the UST removal and no organic vapors were observed.

Copies of available logs for potable water wells proximate to the site were obtained from the Minnesota Geological Survey. Three of the closest wells (unique numbers 10262, 20914, and 20915) are deeper than 340 feet. Copies of the well logs are included as Appendix C.

#### 6.0 DISCUSSION/CONCLUSIONS

The lack of petroleum hydrocarbon contamination at B-1 and B-2 indicate that contamination may be localized and that the majority of the contamination was removed at the time of the UST excavation. The soil was landfarmed at Matthews Farms in Glencoe, Minnesota on June 6, 1991. A copy of the Minnesota Pollution Control Agency (MPCA) approval letter dated May 15, 1991 is included as Appendix D.

The presence of clay soil may have inhibited vertical migration of contaminants, as indicated by the visual, olfactory, qualitative, and quantitative data collected beneath the former UST.

SUMMIT believes that the risk for significant impact to groundwater resources or other potential receptors appears to be relatively low. Groundwater was not encountered during the site assessments, and the hydrogeologic environment characterized by the soil borings indicates that the potential for vertical migration of contaminants may be low.

### **7.0 RECOMMENDED CORRECTIVE ACTIONS**

Based on the data collected during the assessments, SUMMIT recommends that no additional subsurface investigation is necessary. Monitoring of petroleum contaminated soil at Matthews Farms should be performed pursuant to MPCA guidelines. A copy of this report should be submitted to MPCA for their review.

### **8.0 LIMITATIONS OF ENVIRONMENTAL ASSESSMENTS**

#### **8.1 Site Data**

SUMMIT's opinions, conclusions and recommendations were based in part on information SUMMIT obtained and evaluated from current sources including the client, property owner, former reports, municipal, state, and federal agencies. Verification of the authenticity or accuracy of this information is not included in SUMMIT's scope of services.

#### **8.2 Sample Collection and Analysis**

Data obtained from discrete sample locations was used to infer conditions between sample locations and no guarantee may be given that the inferred conditions exists. As soil and groundwater conditions between sample locations may vary significantly with time, conditions at the time of sample collection may also vary significantly with respect to soil and groundwater quality.

#### **8.3 Final Report and Interpretation of Results**

SUMMIT's report is based upon SUMMIT's observations made during the assessment, the information provided to SUMMIT and the results of soil screening and analytical sampling. Given the inherent limitations of environmental assessment work, SUMMIT will not

Page 7

Contel of Minnesota, Inc.

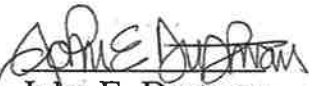
June 11, 1991

guarantee that the site is free of hazardous or potentially hazardous materials or conditions or that latent or undiscovered conditions will not become evident in the future. SUMMIT's report was prepared in accordance with the proposal, scope of work, and the standard terms and conditions presented in the general conditions contract, and no other warranties, representations, or certifications are made.

**SUMMIT ENVIRONMENTAL ENGINEERING &  
CONSULTING, INC.**



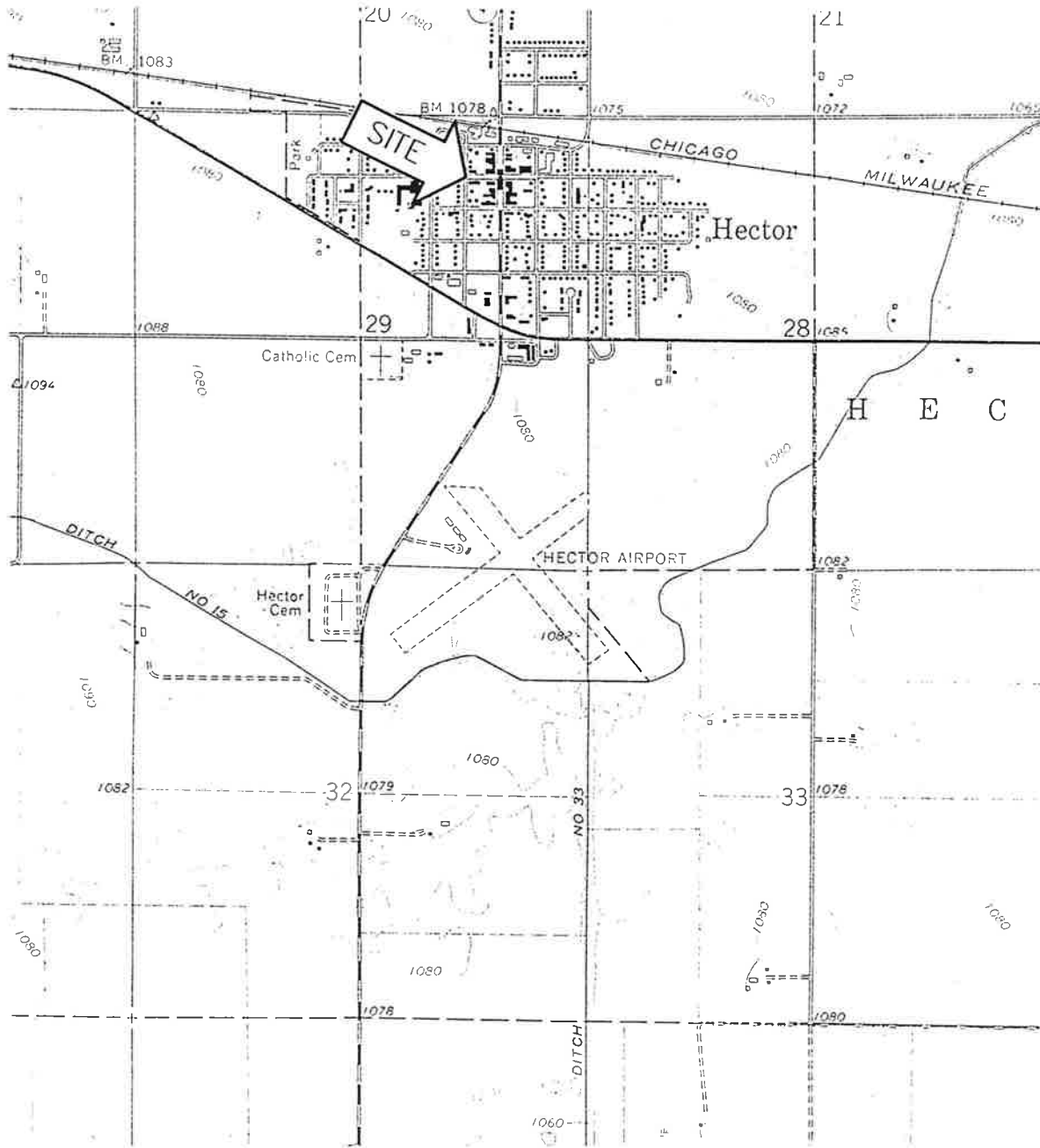
William J. Stoddard  
President



John E. Dustman  
Principal Hydrogeologist

**FIGURES**






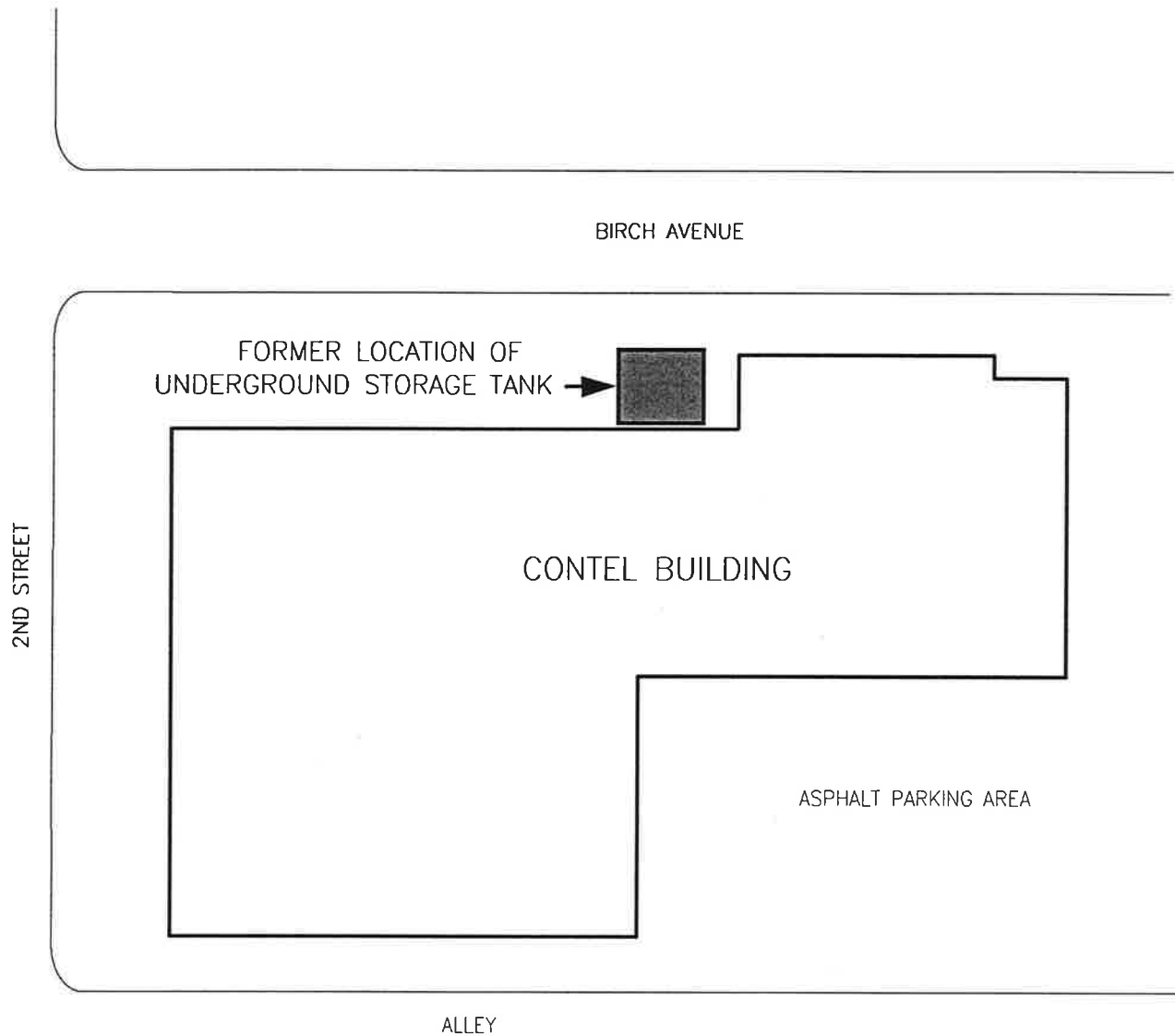

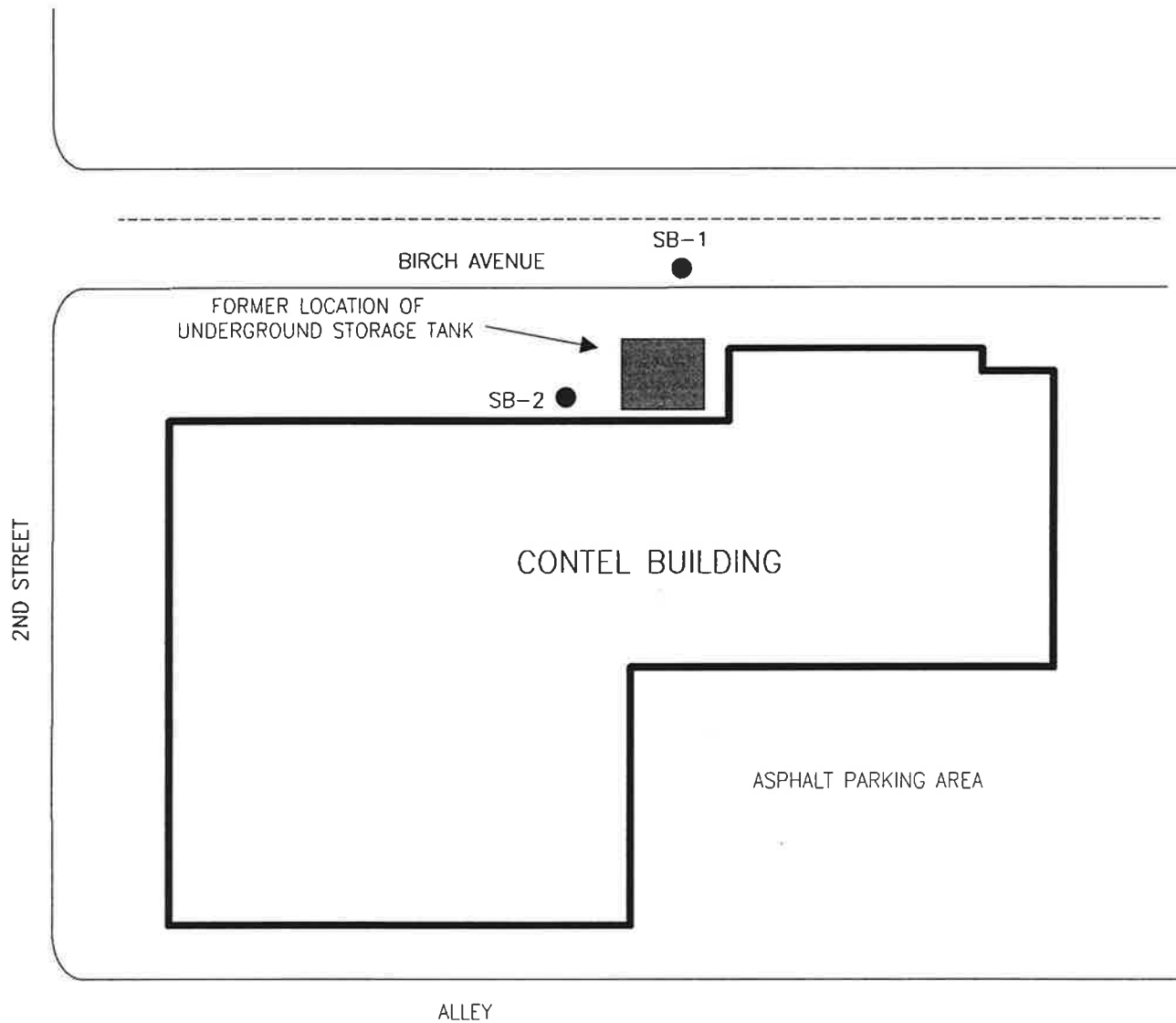
|   |  |  |  |
|---|--|--|--|
| SCALE (APPROXIMATE):<br>1 INCH = 2000 FEET                      |  | <br>NORTH |  |
| NOTES: Base map taken from USGS<br>Hector, Minnesota Quadrangle |  |  |  |
| DRAWN BY: GTO   |  | DATE: JUNE 1991  |  |
| REVIEWED BY: JED  |  |  |  |

FIGURE 1  
 SITE LOCATION MAP  
 CONTEL OF MINNESOTA, INC.  
 HECTOR, MINNESOTA  
 SUMMIT PROJECT NO. 910440



|  |                    |  |   |
|--|--------------------|--|---|
| SCALE (APPROXIMATE):<br>1 INCH = 30 FEET |                    | <br>NORTH | FIGURE 2<br><br>SITE MAP<br>CONTEL OF MINNESOTA, INC.<br>HECTOR, MINNESOTA<br>SUMMIT PROJECT NO. 910440 |
| NOTES:<br>N/A                            |                    |  |   |
| DRAWN BY: GTO<br>REVIEWED BY: JED        | DATE:<br>JUNE 1991 |  |   |



LEGEND

--- CITY SEWER

● SOIL BORING LOCATION

|  |   |   |
|--|---|---|
| <p>SCALE (APPROXIMATE):<br/>                  1 INCH = 30 FEET</p> | NORTH                                       | <p>FIGURE 3</p> <p>SOIL BORING LOCATIONS<br/>                 CONTEL OF MINNESOTA, INC.<br/>                 HECTOR, MINNESOTA<br/>                 SUMMIT PROJECT NO. 910440</p> |
| <p>NOTES:<br/>                 N/A</p>                             |   |   |
| <p>DRAWN BY: GTO<br/>                 REVIEWED BY: JED</p>         | <p>DATE:<br/>                 JUNE 1991</p> |   |

**APPENDICES**

**APPENDIX A**

**Chemistry Reports**



# SERCOCO Laboratories

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

LABORATORY ANALYSIS REPORT NO: 3709  
11/28/90

PAGE 1

Jerry's Tank Service c/o Terracon  
3584 Hoffman Road East  
White Bear Lake, MN 55110

DATE COLLECTED: 11/14/90  
DATE RECEIVED: 11/16/90  
COLLECTED BY : CLIENT  
DELIVERED BY : CLIENT  
SAMPLE TYPE : SOIL

Attn: John Dustman

|                     |                   |                  |
|---------------------|-------------------|------------------|
| SERCOCO SAMPLE NO:  | 108920            | 108930           |
| SAMPLE DESCRIPTION: | 11140915          | 11140930         |
|                     | Proj#             |                  |
|                     | 41905098          |                  |
|                     | <i>below tank</i> | <i>SOIL PILE</i> |

ANALYSIS:

|                                 |        |        |
|---------------------------------|--------|--------|
| Benzene, mg/kg                  | <0.005 | <0.005 |
| Ethylbenzene, mg/kg             | <0.005 | 0.042  |
| Toluene, mg/kg                  | <0.005 | <0.005 |
| Xylene, mg/kg                   | <0.005 | 0.16   |
| FID Scan, mg/kg, as #2 fuel oil | <2.0   | 360    |

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 SERCOCO LABORATORIES. Please contact me if other arrangements are needed.

Report submitted by,

Diane J. Anderson  
Project Manager

*CHAIN OF CUSTODY*

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



Member



# SERCO Laboratories

1931 West County Road C2, St. Paul, Minnesota 55113 Phone (612) 636-7173 FAX (612) 636-7178

LABORATORY ANALYSIS REPORT NO: 6025  
04/29/91

PAGE 1

Summit Environmental Engr.  
708 North First Street  
Suite 233  
Minneapolis, MN 55401

Attn: Greg Oothoudt

DATE COLLECTED: 04/16/91  
DATE RECEIVED: 04/18/91  
COLLECTED BY : CLIENT  
DELIVERED BY : CLIENT  
SAMPLE TYPE : SOIL

SERCO SAMPLE NO: 30441 30451

SAMPLE DESCRIPTION: 04161115 04161210  
B-1 15' B-2 13'  
910440 910440  
Contel Contel

ANALYSIS:

|                                 |        |        |
|---------------------------------|--------|--------|
| Benzene, mg/kg                  | <0.005 | <0.005 |
| Ethylbenzene, mg/kg             | <0.005 | <0.005 |
| Toluene, mg/kg                  | <0.005 | <0.005 |
| Xylene, mg/kg                   | <0.005 | <0.005 |
| FID Scan, mg/kg, as #2 fuel oil | <2.0   | <2.0   |

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  
Project Manager

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



Member

CHAIN OF CUSTODY:

SERCO LABORATORIES  
 1931 WEST COUNTY ROAD C-2  
 ST. PAUL, MN 55113  
 612-636-7173  
 FAX 612-636-7178

SAMPLING ADDRESS: 130 Birch St

Hector, MN

SAMPLER: Way T Oathurst  
 (SIGNATURE)

COMPANY: Summit Environmental

PROJECT SUPERVISOR: Above

ADDRESS: 708 N 1st St # 233

Mnpls, MN 55401

SAMPLE LOT NUMBER \_\_\_\_\_ DISCREPANCY YES NO

TELEPHONE: 333-5050

COOLER NUMBER \_\_\_\_\_ CLIENT NOTIFIED \_\_\_\_\_

FAX: 333-5445

TEMPERATURE OF COOLER ON RECEIPT AT LABORATORY

| SAMPLE NUMBER | DATE    | TIME     | METHOD | SAMPLE TYPE | SITE LOCATION | NUMBER AND TYPE OF BOTTLES | REMARKS |
|---------------|---------|----------|--------|-------------|---------------|----------------------------|---------|
| 104110115     | 4-16-91 | 11:15 AM | Grab   | Soil        | Contel Hector | 2 4oz                      |         |
| 104110120     | 4-16-91 | 1210     | Grab   | "           | "             | "                          |         |
|               |         |          |        |             |               |                            |         |
|               |         |          |        |             |               |                            |         |
|               |         |          |        |             |               |                            |         |
|               |         |          |        |             |               |                            |         |
|               |         |          |        |             |               |                            |         |
|               |         |          |        |             |               |                            |         |
|               |         |          |        |             |               |                            |         |
|               |         |          |        |             |               |                            |         |
|               |         |          |        |             |               |                            |         |
|               |         |          |        |             |               |                            |         |
|               |         |          |        |             |               |                            |         |
|               |         |          |        |             |               |                            |         |
|               |         |          |        |             |               |                            |         |
|               |         |          |        |             |               |                            |         |
|               |         |          |        |             |               |                            |         |

| RELINQUISHED BY        | DATE           | TIME                 | RECEIVED BY (SIGNATURE AND COMPANY)   |
|------------------------|----------------|----------------------|---------------------------------------|
| 1. <u>Way Oathurst</u> | <u>4-18-91</u> | <u>8:45</u> AM<br>PM | <u>Wendy Peterson (SERCO)</u> 4/18/91 |
| 2. _____               |                | AM<br>PM             |                                       |
| 3. _____               |                | AM<br>PM             |                                       |
| 4. _____               |                | AM<br>PM             |                                       |
| 5. _____               |                | AM<br>PM             |                                       |





SERCO Laboratories

St. Paul, Minnesota

Project # 910440

DIANE J. ANDERSON  
Project Manager

ANALYSIS REQUEST FORM

THE FOLLOWING INFORMATION IS REQUIRED  
PROPERLY PROCESS YOUR SAMPLES. COMPLETE  
AND RETURN WITH SAMPLES.  
PLEASE PRINT.

1931 West County Road C2, St. Paul, Minnesota 55113  
(612) 636-7173 Fax (612) 636-7178

DUE DATE:

CLIENT NAME: Summit Environmental

STANDARD: X

CLIENT ADDRESS: 708 N 1st St # 233

PRIORITY: \_\_\_\_\_

(ADVANCE NOTICE REQUIRED)

Mnpls ZIP 55401

TIME COLLECTED \_\_\_\_\_ AM  
PM

ATTN: Greg Othoudt

DATE COLLECTED 4-16-91

CLIENT PHONE NO.: 333-5050

NAME OF SAMPLER Greg Othoudt

CLIENT ORDER NO.: 910440

SAMPLE TYPE: (CIRCLE AT LEAST ONE)

INVOICE TO: Client (Same)

- WASTE WATER
- GROUND WATER
- SURFACE WATER
- WELL WATER
- GRAB
- OTHER: \_\_\_\_\_
- SLUDGE
- SOIL
- SOLID WASTE
- HAZARDOUS WASTE
- COMPOSITE

PLEASE LIST TESTS REQUIRED FOR EACH SAMPLE. ONE SAMPLE PER BOX.  
PLEASE NOTE SPECIFIC DETECTION LIMITS REQUIRED OR APPLICABLE REGULATION.

| SAMPLE IDENTIFICATION<br>(7 LETTERS PER LINE,<br>ONE BOX PER SAMPLE) | # 04161115<br><del>Summit B-1</del> 15'<br>910440<br><del>Contel</del><br>Contel | # 04161210<br><del>Summit B-2</del> 13'<br>910440<br><del>Contel</del><br>Contel |  |  |
|--|--|--|--|--|
| ANALYSIS   |  |  |  |  |
| Total Hydrocarbons   |  |  |  |  |
| as gas   |  |  |  |  |
| as #2 Fuel Oil   | X  | X  |  |  |
| BETX   | X  | X  |  |  |
| MTBE   |  |  |  |  |
| Total Lead   |  |  |  |  |
| MDH 465C   |  |  |  |  |
| Other (please itemize)   |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |
| # OF BOTTLES/SITE  | 2  | 2  |  |  |
| SPECIAL INSTRUCTIONS OR UNUSUAL CONDITIONS:                          |  |  |  |  |
|  |  |  |  |  |

CHAIN OF CUSTODY

SERCO LABORATORIES  
 1931 WEST COUNTY ROAD C-2  
 ST. PAUL, MN. 55113  
 612-636-7173  
 FAX 612-636-7178

SAMPLING ADDRESS: 130 Birch St

Hector, MN

SAMPLER: [Signature]  
 (SIGNATURE)

COMPANY: Summit Environmental

PROJECT SUPERVISOR: Above

ADDRESS: 708 N 1st St # 233

Mpls, MN 55401

SAMPLE LOT NUMBER DISCREPANCY YES NO

TELEPHONE: 333-5050

COOLER NUMBER CLIENT NOTIFIED

FAX: 333-5445

TEMPERATURE OF COOLER ON  
 RECEIPT AT LABORATORY

| SAMPLE NUMBER | DATE    | TIME     | METHOD | SAMPLE TYPE | SITE LOCATION | NUMBER AND TYPE OF BOTTLES | REMARKS |
|---------------|---------|----------|--------|-------------|---------------|----------------------------|---------|
| 1041101115    | 4-16-91 | 11:15 AM | Grab   | Soil        | Contel Hector | 2 4oz                      |         |
| 1041101210    | 4-16-91 | 12:10    | Grab   | "           | "             | "                          |         |
|               |         |          |        |             |               |                            |         |
|               |         |          |        |             |               |                            |         |
|               |         |          |        |             |               |                            |         |
|               |         |          |        |             |               |                            |         |
|               |         |          |        |             |               |                            |         |
|               |         |          |        |             |               |                            |         |
|               |         |          |        |             |               |                            |         |
|               |         |          |        |             |               |                            |         |
|               |         |          |        |             |               |                            |         |
|               |         |          |        |             |               |                            |         |
|               |         |          |        |             |               |                            |         |
|               |         |          |        |             |               |                            |         |
|               |         |          |        |             |               |                            |         |
|               |         |          |        |             |               |                            |         |
|               |         |          |        |             |               |                            |         |
|               |         |          |        |             |               |                            |         |
|               |         |          |        |             |               |                            |         |

| RELINQUISHED BY       | DATE           | TIME           | RECEIVED BY (SIGNATURE AND COMPANY)   |
|-----------------------|----------------|----------------|---------------------------------------|
| 1. <u>[Signature]</u> | <u>4/18/91</u> | <u>8:45</u> AM | <u>Wendy Peterson (SERCO)</u> 4/18/91 |
| 2.                    |                | AM<br>PM       |                                       |
| 3.                    |                | AM<br>PM       |                                       |
| 4.                    |                | AM<br>PM       |                                       |
| 5.                    |                | AM<br>PM       |                                       |

**APPENDIX B**

**Geologic Logs**

**GEOLOGIC LOG**

**SUMMIT ENVIRONMENTAL ENGINEERING &  
CONSULTING, INC**

|                         |   |                       |                |
|-------------------------|---|-----------------------|----------------|
| <b>LOCATION</b>         | Contel of Minnesota, Inc.   | <b>SUMMIT NO.</b>     | 910440         |
|                         | 130 Birch Avenue  |                       |                |
|                         | Hector, Minnesota   |                       |                |
| <b>SOIL BORING NO.</b>  | B-1   | <b>DATE COMPLETED</b> | April 16, 1991 |
| <b>DRILLING COMPANY</b> | Thein Well  |                       |                |
| <b>DRILLING METHOD</b>  | Hollow Stem Auger   |                       |                |
| <b>SAMPLING METHOD</b>  | Split Spoon   |                       |                |
| <b>OBSERVER</b>         | G. Oothoudt   |                       |                |
| <b>REMARKS</b>          | Boring B-1 located 53 feet west and 15 feet north of northeast corner of building |                       |                |

| DEPTH (FEET) |    | DESCRIPTION  | PID |
|--------------|----|--|-----|
| FROM         | TO |  |     |
| 0            | 5  | Clay, black, moist, plastic                          | ND  |
| 5            | 10 | Clay, black and gray, moist-very moist, very plastic | ND  |
| 10           | 15 | Clay, black and gray, some brown mottling, moist,    | ND  |
|              |    | hard, non-plastic                                    |     |
|              |    |  |     |
|              |    |  |     |
|              |    | NOTES:   |     |
|              |    | PID = photoionization detector                       |     |
|              |    | ND = not detected                                    |     |
|              |    | TR = trace (less than 1 part per million)            |     |
|              |    |  |     |
|              |    |  |     |
|              |    |  |     |

## GEOLOGIC LOG

### SUMMIT ENVIRONMENTAL ENGINEERING & CONSULTING, INC

|                         |  |                       |                |
|-------------------------|--|-----------------------|----------------|
| <b>LOCATION</b>         | Contel of Minnesota, Inc.  | <b>SUMMIT NO.</b>     | 910440         |
|                         | 130 Birch Avenue   |                       |                |
|                         | Hector, Minnesota  |                       |                |
| <b>SOIL BORING NO.</b>  | B-2  | <b>DATE COMPLETED</b> | April 16, 1991 |
| <b>DRILLING COMPANY</b> | Thein Well   |                       |                |
| <b>DRILLING METHOD</b>  | Hollow Stem Auger  |                       |                |
| <b>SAMPLING METHOD</b>  | Split Spoon  |                       |                |
| <b>OBSERVER</b>         | G. Oothoudt  |                       |                |
| <b>REMARKS</b>          | Boring B-2 located 83 feet west and 1 foot south of northeast corner of building |                       |                |

| DEPTH (FEET) | FROM | TO | DESCRIPTION                               | PID |
|--------------|------|----|---|-----|
|              | 0    | 5  | Clay, brown, moist-very moist, plastic    | ND  |
|              | 5    | 10 | Clay, gray, moist-very moist, plastic     | ND  |
|              | 10   | 13 | Clay, dark gray, moist, non-plastic, hard | ND  |
|              |      |    |   |     |
|              |      |    |   |     |
|              |      |    |   |     |
|              |      |    |   |     |
|              |      |    | NOTES:                                    |     |
|              |      |    | PID = photoionization detector            |     |
|              |      |    | ND = not detected                         |     |
|              |      |    | TR = trace (less than 1 part per million) |     |
|              |      |    |   |     |
|              |      |    |   |     |
|              |      |    |   |     |
|              |      |    |   |     |

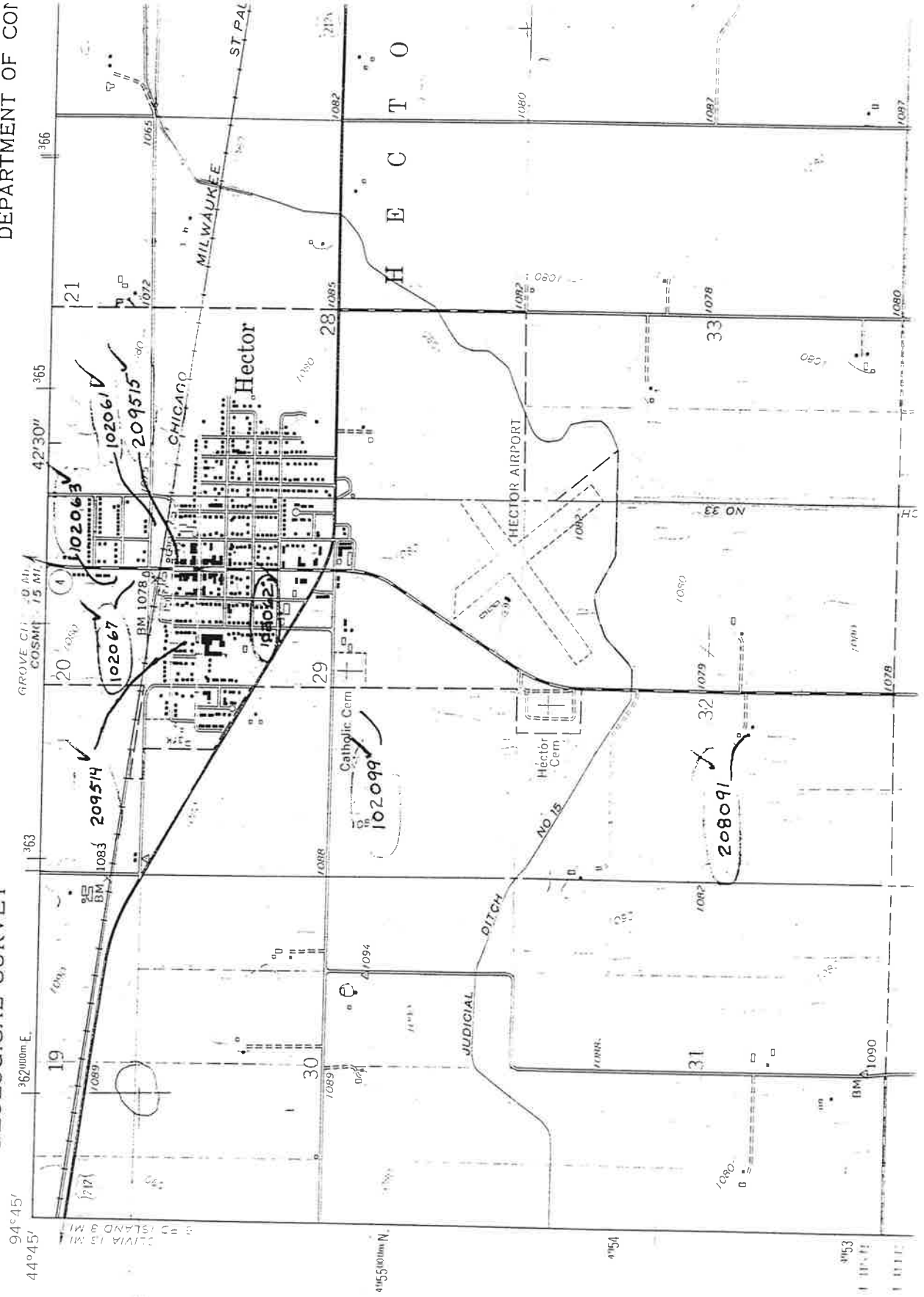
**APPENDIX C**

**Well Logs**

7079 IV  
(OLIVIA 1:62,500)

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

STATE OF MINI  
DEPARTMENT OF COI



44°53'  
94°54'

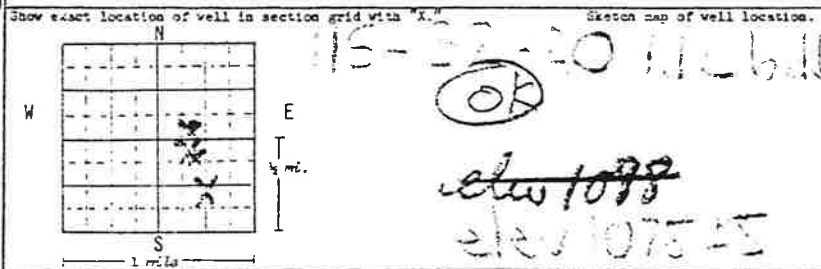
1. LOCATION OF WELL

County Name: Renville Fraction: SE 1/4 NE 20 Section Number: 20 Township Number: T115N Range Number: R22W

Distance and Direction from Road Intersections of Street Address and City of Well Location: \_\_\_\_\_

3. PROPERTY OWNER'S NAME

Address: 5 City: Hector State: Minnesota



4. WELL DEPTH (completed) \_\_\_\_\_ ft. Date of Completion: 10/1/72

5.  Cable tool  Reverse  Driven  Auger  
 Hollow rod  Air  Bored  \_\_\_\_\_  
 Rotary  Jetted  Power Auger

| FORMATION LOG                  | COLOR | HARDNESS OF FORMATION | FROM    | TO      |
|--------------------------------|-------|-----------------------|---------|---------|
| FILL RMUF FILL                 |       |                       | 0       | 4       |
| Black dirt QFUV SOIL OVER      |       |                       | 4       | 10      |
| Bluish gray clay QFUV CLAY     |       |                       | 10      | 12      |
| Blue clay QFUV CLAY            |       |                       | 12      | 16      |
| Sand w/clay QFUV SAND CLAY     |       |                       | 16      | 18+     |
| Sandy blue clay QFUV CLAY SAND |       |                       | 18+     | 61      |
| Sand w/clay QFUV SAND CLAY     |       |                       | 61      | 63      |
| Rock QFUV COBL                 |       |                       | 63      | 64      |
| Sandy blue clay QFUV CLAY SAND |       |                       | 64      | 124     |
| Rock QFUV COBL                 |       |                       | 124     | 124 1/2 |
| Sand QFUV SAND                 |       |                       | 124 1/2 | 125 1/2 |
| Sandy blue clay QFUV CLAY SAND |       |                       | 125 1/2 | 140     |
| Rock QFUV COBL                 |       |                       | 140     | 141     |
| Sandy blue clay QFUV CLAY SAND |       |                       | 141     | 161     |
| Fine sand QFUV SAND            |       |                       | 161     | 163     |
| Sandy blue clay QFUV CLAY SAND |       |                       | 163     | 169     |
| Sand QFUV SAND                 |       |                       | 169     | 170     |
| Sandy blue clay QFUV CLAY SAND |       |                       | 170     | 185     |
| Rock QFUV COBL                 |       |                       | 185     | 185 1/2 |
| Sandy blue clay QFUV CLAY SAND |       |                       | 185 1/2 | 254     |
| Sand QFUV SAND                 |       |                       | 254     | 256     |
| Sandy blue clay QFUV CLAY SAND |       |                       | 256     | 328     |
| Sand & clay QFUV SAND CLAY     |       |                       | 328     | 331     |
| Sandy blue clay QFUV CLAY SAND |       |                       | 331     | 338     |
| Fine sand/wclay QFUV SAND CLAY |       |                       | 338     | 360     |
| Sand QFUV SAND                 |       |                       | 360     | 375     |
| Sand coarser QFUV SAND         |       |                       | 375     | 403     |
| Granite rock PWUD GMS          |       |                       | 403     | 405     |

6. USE

Domestic  Public Supply  Industry  
 Irrigation  Air Conditioning  Commercial  
 Test Well  \_\_\_\_\_

7. CASING

DIAM. Threaded  1 Welded  \_\_\_\_\_  
 Black  2 Galv.  \_\_\_\_\_

HEIGHT: Above/Below  
 Surface \_\_\_\_\_ ft.  
 Weight \_\_\_\_\_ lbs./ft.  
 Drive Shoe? Yes \_\_\_ No \_\_\_

8. SCREEN

Make \_\_\_\_\_ from \_\_\_\_\_ ft. to \_\_\_\_\_ ft.  
 Type \_\_\_\_\_ Dia. \_\_\_\_\_  
 Slot/Gauge \_\_\_\_\_ Length \_\_\_\_\_  
 Set between \_\_\_\_\_ ft. and \_\_\_\_\_ ft. FITTINGS: \_\_\_\_\_  
 \_\_\_\_\_ 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 \_\_\_\_\_ S.P.M.  
 \_\_\_\_\_ ft. after \_\_\_\_\_ hrs. pumping \_\_\_\_\_ S.P.M.

11. WELL HEAD COMPLETION

Pitless adapter  Basement offset  At least 12" above grade

12. Well grouted?

Yes  No Cu. Yds. \_\_\_\_\_  
 Neat cement  Bentonite  \_\_\_\_\_  
 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

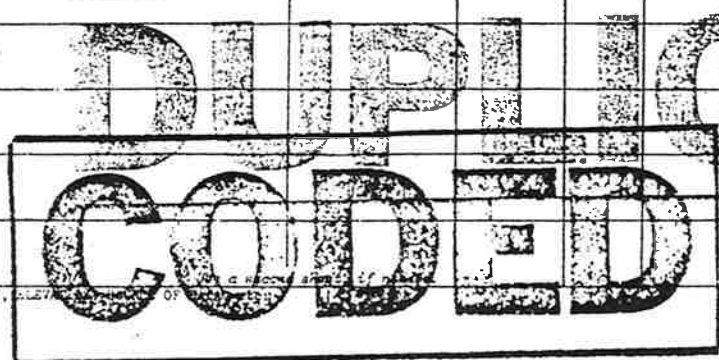
Date installed \_\_\_\_\_  
 Not installed  
 Manufacturer's Name \_\_\_\_\_

Model Number \_\_\_\_\_ Volts \_\_\_\_\_  
 Length of pipe \_\_\_\_\_ Capacity \_\_\_\_\_ S.P.M.  
 Material of pump pipe \_\_\_\_\_  
 Type:  Submersible  U.S. Turbine  Reciprocating  
 Centrifugal  \_\_\_\_\_

WATER WELL CONSTRUCTOR'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



15. REMARKS, ELEVATION OF \_\_\_\_\_ OF \_\_\_\_\_



1. LOCATION OF WELL

County Name: Kenosha Fraction: NESENE Section Number: 29 Township Number: T15N Range Number: R32W

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.

3. PROPERTY OWNER'S NAME

Address: 5 City Hector, Hector, Minnesota

4. WELL DEPTH (completed) \_\_\_\_\_ ft. Date of Completion: \_\_\_\_\_

5.  Cable tool  Reverse  Driven  Dug  
 Hollow rod  Air  Bored  \_\_\_\_\_  
 Pottery  Jetted  Power Auger

6. USE  
 Domestic  Public Supply  Industry  
 Irrigation  Air Conditioning  Commercial  
 Test Well  \_\_\_\_\_

2. FORMATION LOG

| FORMATION LOG          | COLOR           | HARDNESS OF FORMATION | FROM    | TO      |
|------------------------|-----------------|-----------------------|---------|---------|
| Black dirt             |                 |                       | 0       | 1 1/2   |
| Gray clay              | QTVU CLAY       |                       | 1 1/2   | 8       |
| Sandy yellow clay      | QFVU CLAY       |                       | 8       | 17      |
| Sandy blue clay        | QFVU CLAY       |                       | 17      | 35 1/2  |
| Sand                   | QFVU SAND       |                       | 35 1/2  | 43      |
| Sandy blue clay        | QFVU CLAY       |                       | 43      | 52      |
| Rocks                  | QFVU COAL       |                       | 52      | 53      |
| Sandy blue clay        | QFVU CLAY       |                       | 53      | 66 1/2  |
| Sand                   | QFVU SAND       |                       | 66 1/2  | 67 1/2  |
| Sandy blue clay        | QFVU CLAY       |                       | 67 1/2  | 77      |
| Rock                   | QTVU COBL       |                       | 77      | 77 1/2  |
| Sandy blue clay        | QTVU CLAY       |                       | 77 1/2  | 80      |
| Rock                   |                 |                       | 80+     |         |
| Sandy blue clay        | QFVU CLAY       |                       | 80+     | 84+     |
| Sand                   | QFVU SAND       |                       | 84+     | 89      |
| Sandy blue clay        | QFVU CLAY       |                       | 89      | 106 1/2 |
| Rock                   | QTVU COBL       |                       | 106 1/2 | 107     |
| Sandy blue clay        | QFVU CLAY       |                       | 107     | 180     |
| Rock                   | QTVU COBL       |                       | 180     | 181     |
| Sandy blue clay        | QFVU CLAY       |                       | 181     | 183     |
| Sand                   | QFVU SAND       |                       | 183     | 185     |
| Sandy blue clay        | QFVU CLAY       |                       | 185     | 221     |
| Sand                   | QFVU SAND       |                       | 221     | 223     |
| Sandy blue clay w/sand | seams QFVU CLAY |                       | 223     | 278 1/2 |
| Sand                   | QFVU SAND       |                       | 278 1/2 | 282     |
| Sandy blue clay        | QFVU CLAY       |                       | 282     | 342     |
| Sand w/wood & clay     | QFVU SAND       |                       | 342     | 385     |
| Sand                   | QFVU SAND       |                       | 385     | 392     |
| Wood & clay            | QFVU CLAY       |                       |         |         |
| Granite broken         |                 |                       | 392     | 393     |

No log for test hole

7. CASING BEAM:  Threaded  Welded  Surface \_\_\_\_\_ ft.  
 Black  Galv.  \_\_\_\_\_  
 \_\_\_\_\_ in. to \_\_\_\_\_ ft. depth Weight \_\_\_\_\_ lbs./ft.  
 \_\_\_\_\_ in. to \_\_\_\_\_ ft. depth Drive Shaft Yes \_\_\_\_\_ No \_\_\_\_\_  
 \_\_\_\_\_ in. to \_\_\_\_\_ ft. depth

8. SCREEN Or open hole  
 Make \_\_\_\_\_ from \_\_\_\_\_ ft. to \_\_\_\_\_ ft.  
 Type \_\_\_\_\_ Dia. \_\_\_\_\_  
 Slot/Ceuse \_\_\_\_\_ Length \_\_\_\_\_ 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  
 Pitless adaptor  Basement offset  At least 12" above grade

12. Well grouted?  
 Yes  No Cu. Yds. \_\_\_\_\_  
 Neat cement  Bentonite  \_\_\_\_\_  
 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:  Submersible  U.S. Turbine  Reciprocating  
 Jet  Centrifugal  \_\_\_\_\_

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

Use a second sheet, if needed.

10. 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.

**Thain Well Co., Inc. 12013**  
 License Business Name \_\_\_\_\_ License No. \_\_\_\_\_  
 Address: Clara City, Minnesota  
 Signed: \_\_\_\_\_ Date: \_\_\_\_\_  
 Authorized Representative: Michael Wade

1. LOCATION OF WELL

County Name: Renville Fraction: NE 1/4 NE 1/4 Section Number: 27 Township Number: T115N Range Number: R32W

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

3. PROPERTY OWNER'S NAME

Address: Can't locate Hector  
City  
Hector, Minnesota

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

115-32-29 ad b BCC  
elev. 1082 ± 5

4. WELL DEPTH (completed) \_\_\_\_\_ ft. Date of Completion: 94B

5.  Cable tool  Reverse  Driven  Dug  
 Hollow rod  Air  Bored   
 Rotary  Jetted  Power Auger

| FORMATION LOG                | COLOR | HARDNESS OF FORMATION | FROM   | TO     |
|------------------------------|-------|-----------------------|--------|--------|
| Black dirt                   |       |                       | 0      | 1 1/2  |
| Grayish yellow clay          |       |                       | 1 1/2  | 5      |
| Sandy brownish gray clay     |       |                       | 5      | 15     |
| Sandy blue clay              |       |                       | 15     | 5 1/2  |
| Sand                         |       |                       | 5 1/2  | 5 1/2  |
| Sandy blue clay              |       |                       | 5 1/2  | 8 1/2  |
| Sand                         |       |                       | 8 1/2  | 8 1/2  |
| Sandy blue clay              |       |                       | 8 1/2  | 9 1/2  |
| Small Rocks                  |       |                       | 9 1/2  | 9 1/2  |
| Sandy blue clay w/sand seams |       |                       | 9 1/2  | 14 1/2 |
| Rock                         |       |                       | 14 1/2 | 14 1/2 |
| Sandy blue clay              |       |                       | 14 1/2 | 21 1/2 |
| Sand                         |       |                       | 21 1/2 | 21 1/2 |
| Sandy blue clay              |       |                       | 21 1/2 | 24 1/2 |
| Soft sandy blue clay         |       |                       | 24 1/2 | 26 1/2 |
| Blue w/green clay            |       |                       | 27 1/2 | 27 1/2 |
| Sandy blue clay              |       |                       | 27 1/2 | 28 1/2 |
| Sand                         |       |                       | 28 1/2 | 28 1/2 |
| Sandy blue clay              |       |                       | 28 1/2 | 33 1/2 |

6. USE

Domestic  Public Supply  Industry  
 Irrigation  Air Conditioning  Commercial  
 Test Well

7. CASING DIAM.

Threaded  1 Welded  3  
 Black  2 Galv.  4

HEIGHT: Above/Below  
 Surface \_\_\_\_\_ ft.  
 Weight \_\_\_\_\_ lbs./ft.  
 Drive Shoe? Yes \_\_\_\_\_ No \_\_\_\_\_

8. SCREEN

Make \_\_\_\_\_ Or open hole from \_\_\_\_\_ ft. to \_\_\_\_\_ ft.  
 Type \_\_\_\_\_ Dia. \_\_\_\_\_  
 Slot/Gauge \_\_\_\_\_ Length \_\_\_\_\_  
 Set between \_\_\_\_\_ ft. and \_\_\_\_\_ ft.  
 \_\_\_\_\_ ft. and \_\_\_\_\_ ft.  
 \_\_\_\_\_ ft. and \_\_\_\_\_ ft.

9. STATIC WATER LEVEL

\_\_\_\_\_ ft.  below  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

Pitless adapter  Basement offset  At least 12" above grade

12. Well grouted?

Yes  No Cu. Ids. \_\_\_\_\_  
 Seal cement  Bentonite   
 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:  Submersible  U.S. Turbine  Reciprocating  
 Jet  Centrifugal

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.

J. Hein Well Co 12013  
 License Business Name License No.  
 Address Clara City, MN  
 Signed Michael Weis Date \_\_\_\_\_  
 Authorized Representative

15. REMARKS, LOCATION, SOURCE OF DATA

**CODED**

Granite

209514

Well No. \_\_\_\_\_

Latitude-longitude \_\_\_\_\_ N  
d    □    s    S    d    □    s

HYDROGEOLOGIC CARD

1 SAME AS ON MASTER CARD 19 Physiographic Province: 112 Section: \_\_\_\_\_

22 Drainage Basin: 28J Subbasin: \_\_\_\_\_

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

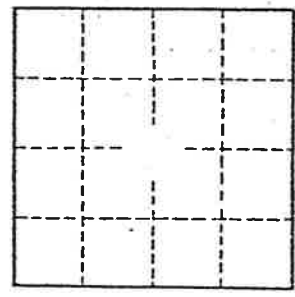
MAJOR AQUIFER: \_\_\_\_\_ system \_\_\_\_\_ series \_\_\_\_\_ 24 29 aquifer, formation, group \_\_\_\_\_ 30 31  
 Lithology: \_\_\_\_\_ Origin: \_\_\_\_\_ Aquifer Thickness: \_\_\_\_\_ ft  
 Length of well open to: \_\_\_\_\_ ft \_\_\_\_\_ 32 37 Depth to top of: \_\_\_\_\_ ft \_\_\_\_\_ 34 43

MINOR AQUIFER: \_\_\_\_\_ system \_\_\_\_\_ series \_\_\_\_\_ 44 45 aquifer, formation, group \_\_\_\_\_ 46 47  
 Lithology: \_\_\_\_\_ Origin: \_\_\_\_\_ Aquifer Thickness: \_\_\_\_\_ ft  
 Length of well open to: \_\_\_\_\_ ft \_\_\_\_\_ 48 53 Depth to top of: \_\_\_\_\_ ft \_\_\_\_\_ 50 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<sup>2</sup>; Spec cap: \_\_\_\_\_ gpm/ft; Number of geologic cards: \_\_\_\_\_ 79

log  
 top soil + yellow clay ← QTUV CLAY 0 - 30  
 blue clay QTUV CLAY 30 - 170  
 hard sticky blue clay QTUV CLAY 170 - 340  
 fine sand QTUV SAND 340 - 380  
 medium sand QTUV SAND 380 - 390  
 broken granite PWD 390 - 405  
 G.M.E.



Well No. \_\_\_\_\_

No. \_\_\_\_\_

There is disagreement as to whether  
 calc. is present under the  
 sand p. 380 to 390.

OK

115-32-29-840

209515

94-R  
S

MINNESOTA DEPARTMENT OF WATERS

WELL LOG STATEMENT

JUL 25 1960

File No. 72267

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

Well No. 115.32.29

DIVISION OF WATERS

Location of Well Hector, Minn.

Locate Well on Plat of Section

Outlot c

County Hector City or Town Hector

|  |  |  |
|--|--|--|
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |

Sec. 29  
Twp. 115  
Range 32

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

SW PA 59-840

Drilled for: Village of Hector

Driller Thein Well Co, Inc

Address \_\_\_\_\_

Address Clara City, Minn.

NO2

Date of Completion Sept, 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

Rate of Pumping 500 GPM

Drill Rig Used Solid tool

Static W. Level 60' Ft.

Drill Bit Size: Top 12" Bottom \_\_\_\_\_

Water Level While Pumping 160' Ft.

Depth of Well 400'

**CODED**

Ground Elevation Level  
Sea Level Datum or Five Feet Above \_\_\_\_\_

Time Required for Recovery \_\_\_\_\_  
Expected Average Yield \_\_\_\_\_ Gal. per day  
If Other Tests were Made, Give Details on Another Sheet.

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

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

|            |                 |                      |
|------------|-----------------|----------------------|
| Director   | <u>S</u>        | Hydro Stud           |
| Deputy     |                 | Repsit               |
| Secretary  |                 | Waterchads           |
| Records    |                 | Ground W. <u>✓</u>   |
| Publ.      | <u>J. T. H.</u> | Surface W.           |
| Library    | <u>L. B.</u>    | Sewerage             |
| Permits    |                 | Drafting             |
| Inspection |                 | <u>Kennell Co</u>    |
| Drainage   |                 | <u>well log file</u> |

Is Well Pumped? yes Pump Capacity \_\_\_\_\_ GPM 250

Was 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~~

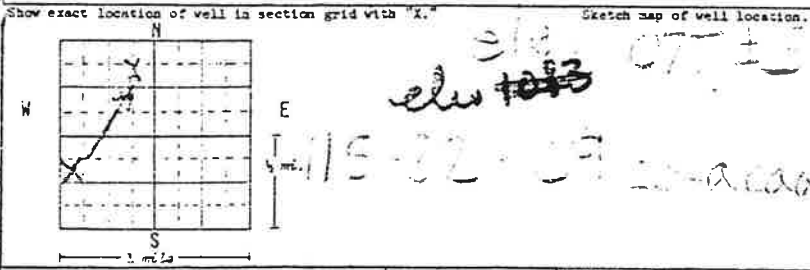
1. LOCATION OF WELL

County Name: Kenosha Fraction: SW 1/4 Sec 27 Section Number: 27 Township Number: T15N Range Number: R3W

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

3. PROPERTY OWNER'S NAME

Address: 5 City: Hector, Minnesota



4. WELL DEPTH (completed) \_\_\_\_\_ ft. Date of Completion: 7-74

5.  Cable tool  Reverse  Driven  Dig  
 Hollow rod  Air  Bored   
 Rotary  Jetted  Power Auger

6. USE

Domestic  Public Supply  Industry  
 Irrigation  Air Conditioning  Commercial  
 Test Well

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

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.

Dia. \_\_\_\_\_  
 Length \_\_\_\_\_  
 FITTINGS: \_\_\_\_\_

9. STATIC WATER LEVEL \_\_\_\_\_ ft.  below  above land surface. Date Measured \_\_\_\_\_

10. PUMPING LEVEL (below land surface)

\_\_\_\_\_ ft. after \_\_\_\_\_ hrs. pumping \_\_\_\_\_ s.p.a.  
 \_\_\_\_\_ ft. after \_\_\_\_\_ hrs. pumping \_\_\_\_\_ s.p.a.

11. WELL HEAD COMPLETION

Pitless adapter  Basement offset  At least 12" above grade

12. Well grouted?  Yes  No Cu. Yds. \_\_\_\_\_

Best cement  Bentonite   
 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 \_\_\_\_\_ s.p.a.  
 Material of drop pipe \_\_\_\_\_  
 Type:  Submersible  I.S. Turbine  Reciprocating  
 Jet  Centrifugal

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.

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

**Thein Well Co., Inc. 12013**  
 Licensed Business Name License No.  
 Address: Clara City, Minnesota

**APPENDIX D**

**MPCA Approval Letter**



# Minnesota Pollution Control Agency

520 Lafayette Road, Saint Paul, Minnesota 55155-3898

Telephone (612) 296-6300



May 15, 1991

Mr. Colin Holzworth  
Contel of Minnesota, Incorporated  
P.O. Box 50770  
Mendota Heights, Minnesota 55150

Dear Mr. Holzworth:

RE: Approval of Land Application of Petroleum Contaminated Soil  
Site: Contel, 130 Birch Street West, Hector  
Site ID#: LEAK00003524

The request submitted by your consultant dated May 10, 1991, to land apply approximately 40 cubic yards of petroleum contaminated soil from the above-referenced site 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:

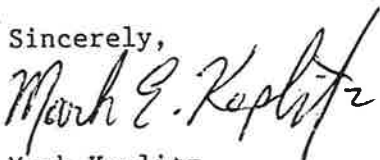
1. Stockpiled soils shall be protected from infiltration and runoff prior to land application.
2. Soil shall be applied to land located at the Mathews Farms, Route 2, Box 233, Glencoe, Minnesota, 55336. Legal Description of the landfarming facility is the NE 1/4 of Section 1, Township 115N, Range 28W, Glencoe Township, McLeod County. The specific facility plot and subplot utilized shall be clearly identified by leaksite number on maps maintained by Mathews Farms. The soil shall be spread as uniformly as possible within the land application subplot.
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.

Mr. Colin Holzworth  
Page 2  
May 15, 1991

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 Koplitz  
Pollution Control Specialist  
Tanks and Spills Section  
Hazardous Waste Division

MK:np

cc: Bob Mathews, Mathews Farms  
Edwin Homan, Solid Waste Officer, McLeod County  
Bud Phillips, Township Chairman, Glencoe  
Greg Oothoudt, Summit Environmental Engineering and Consulting,  
Inc., Minneapolis



MINNESOTA POLLUTION CONTROL AGENCY  
COMMISSIONER'S SITE REPORT  
TO THE PETROLEUM TANK RELEASE  
COMPENSATION BOARD

---

Site: Contel of Minnesota

Site ID#: LEAK00003524

Applicant: Mr. Collin Holzwarth

Date of Application: September 27, 1991

---

1. Eligibility Determination

I hereby make the determinations, regarding the above-referenced petroleum tank release site, that the corrective action taken by the applicant was appropriate in terms of protecting public health, welfare, and the environment and that the applicant is eligible for Petrofund reimbursement, pursuant to Minn. Stat. § 115C.09, subd. 2, items (a) and (c) (1990).

2. Compliance with Applicable Requirements: INADEQUATE

Information readily available to the Minnesota Pollution Control Agency (MPCA) staff shows that the applicant has complied with the applicable requirements of Minn. Stat. § 115C.09, subd. 3(d)(1990) with the following exceptions:


The petroleum storage tank(s) was not registered until November 9, 1990. This date exceeds the deadline established by the MPCA and Minn. Stat. § 116.48, subd. 1(a).

3. Reimbursement Reduction Recommendation:

The MPCA staff recommends a reduction in the amount of reimbursement available to the applicant, under 1991 Minn. Laws ch. 175, § 5 (to be codified as Minn. Stat. 115C.09, Subd. 3(e)), based upon the compliance failure noted above.

The determinations in this report are made solely for the purpose of determining eligibility for reimbursement under Minn. Stat. § 115C.09, subs. 2 and 3 (1990). Nothing in this site report releases any person from liability, and the MPCA does not waive any of its authority to require additional corrective action at the above-referenced site or to enforce other provisions of state law.

Dated: Oct 16, 1991

  
Michael Kanner, Manager  
Tanks and Spills Section  
Hazardous Waste Division

MINNESOTA PETROLEUM TANK RELEASE  
COMPENSATION BOARD

Leak # 3524

Application for Reimbursement

State of Minnesota

PART I APPLICATION PROCESS

AUG 30 1991

(Check One) Check appropriate Phase and complete the information requested for the Phase checked (See Application Guide). Dept. of Commerce

7

[X] Phase 1. MPCA approval of Soil Corrective Action Plan (SCAP)

a) Date of SCAP approval 5 / 15 / 91 (Attach Copy)

b) Date SCAP was submitted to MPCA 5 / 9 / 91

[ ] Phase 2. Submission of Soil Treatment Letter to MPCA

Date of Soil Treatment Letter  / /  (Attach copy)

[X] Phase 3. MPCA approval of Comprehensive Corrective Action Plan (CCAP)

a) Date of CCAP approval 8 / 9 / 91 (Attach copy)

b) Date CCAP was submitted to MPCA 6 / 11 / 91

[ ] Phase 4. Submission of CCAP Installation Letter to MPCA

Date of CCAP Installation Letter  / /  (Attach copy)

[ ] Ongoing Expenses  
Closure Letter from MPCA (Attach Copy)

PART II APPLICANT INFORMATION

1. "Responsible Person" [X] "Volunteer" [ ] or "Non-Responsible Person" [ ]  
(check one) (see application guide)

Name: Collin Holzwarth

\* Contel of Minnesota - Hector

2. Mailing Address: Contel of Minnesota, P.O. Box 50770

Mendota Hts., MN 55118 Phone: (612) 681-2500

3. Site ID: Leak # 00003524

4. The applicant is a: [X] Corporation [ ] Partnership [ ] Individual [ ] Other \_\_\_\_\_

5. Applicant was the owner or operator of the tank from - / - / 55 to 11/13 / 90

6. Has applicant executed any Petrofund assignment agreements? yes \_\_\_\_\_ no X

Name of assignee \_\_\_\_\_ (attach copy of agreement)

PART III

TANK FACILITY

1. Name of "Tank Facility" (see application guide) where the petroleum release occurred:

Contel of Minnesota- Hector

2. Tank Facility address: Contel of Minnesota

130 Birch St. West, Hector, MN

3. Contact Person at Tank Facility: Mr. Edwin Schafer/Mr. Collin Holzwarth

Phone: (612) 681-2500

4. Date when petroleum release was detected: 11/13/90

What test was performed to initially establish that a release occurred? PID readings

5. Date when petroleum release was reported to the MPCA: 11/13/90

6. Please complete the following information on the tanks at this Tank Facility. (see application guide)

| <u>Tank #</u> | <u>Capacity</u>   | <u>Petroleum Product</u> | <u>"X" if tank removed</u> | <u>Date of Removal</u> |
|---------------|-------------------|--------------------------|----------------------------|------------------------|
| <u>1</u>      | <u>1,000 gal.</u> | <u>Fuel Oil</u>          | <u>X</u>                   | <u>11 / 13 / 90</u>    |
| <u>      </u> | <u>      </u>     | <u>      </u>            | <u>      </u>              | <u>  /  /  </u>        |
| <u>      </u> | <u>      </u>     | <u>      </u>            | <u>      </u>              | <u>  /  /  </u>        |
| <u>      </u> | <u>      </u>     | <u>      </u>            | <u>      </u>              | <u>  /  /  </u>        |

7. a. Which tanks were the source of the release at this tank facility? (see application guide)

Tank #1 1,000 gallon

b. What was the cause of the release?

Overfill (?)

8. What date was the MPCA notified of the existence of the tanks as required by Minnesota Statute 116.48? 11 / 9 90

9. To the best of your knowledge, list all other persons—besides the applicant who were owners or operators of the tank during or after the petroleum release:

None

10. Did any of the persons listed in question 9 incur corrective action costs related to this petroleum release? yes \_\_\_ no \_\_\_ If yes, list name and address if known:

**PART IV** **ELIGIBLE COSTS**

1. The Eligible Cost Worksheets attached are for INVESTIGATION costs, CLEAN-UP costs, and CONSULTANT costs. These worksheets must be completed listing each corrective action for which you are requesting reimbursement.

2. Invoices submitted with this application cover the period from 11/15/90 to 5/3/91

3. Are any of the costs listed in the Eligible Cost Worksheets in dispute? yes \_\_\_ no X  
(see application guide)

4. a. Please state the total amount of contaminated soil which was excavated at this site (cubic yards or tons): 40 cubic yards

b. What was the soil contamination concentration (total hydrocarbons) 360 ppm?

5. Has the applicant been eligible to recover cleanup costs arising from this petroleum release under any insurance policy at any time since June 4, 1987? yes \_\_\_ no X

If yes, provide the following:

| <u>Insurance Company</u> | <u>Policy #</u> | <u>Policy Limits</u> | <u>Deductible</u> | <u>Period Covered</u> |
|--------------------------|-----------------|----------------------|-------------------|-----------------------|
|                          |                 |                      |                   | / /                   |
|                          |                 |                      |                   | / /                   |

|   |   |                      |
|---|---|----------------------|
| 6. Total of all eligible costs as listed in the Eligible Cost Worksheets: |   | \$ <u>8,359.15</u>   |
|   |   | X 90%                |
|   | =   | \$ <u>7,523.24</u>   |
|   | Insurance Reimbursement (Subtract)                  | - \$ <u>( -0- )</u>  |
|   | Total Reimbursement Request (See application guide) | = \$ <u>7,523.24</u> |

At this time, do you anticipate incurring any Ongoing Corrective Action costs relative to the petroleum release at this Tank Facility? yes X no \_\_\_\_\_

If yes, explain briefly what work will be done and an approximate cost of that work.

Landfarm Monitoring \$500

---

PART V CONTRACTORS/CONSULTANTS

1. Complete the following for all contractors, subcontractors, consultants, engineering firms or others who performed corrective actions at this release site. (see application guide) Failure to provide this information for ALL persons who performed corrective action may result in an action to recover any reimbursement which may be paid. (Attach additional sheets if necessary.)

Name of individual or firm: SUMMIT Environmental Engineering & Consulting, Inc.

Mailing address: 708 North First Street, Suite 233, Mpls., MN 55401

Contact person: John E. Dustman Phone: (612 ) 333-5050

Name of individual or firm: Jerry's Underground Tank Div.

Mailing address: Rt. 1, Box 18, Wright, MN 55798

Contact person: Jerry Sorenson Phone: (218 ) 644-3528

Name of individual or firm: Terracon Environmental, Inc.

Mailing address: 3584 Hoffman Rd. E., White bear Lake, MN 55110

Contact person: Tom Gapske Phone: (612 ) 770-1500

2. Describe below any relationship, financial or otherwise, between the applicant and any contractor who performed work at this site:

None

---

---

---

**PART VI CERTIFICATION** (see application guide)

A. "I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the persons or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate and complete.

"I certify that if I have submitted invoices for costs that I have incurred but that remain unpaid, I will pay these invoices within 30 days or receipt of reimbursement from the board. I understand that if I fail to do so, the board may demand return of all or any portion of reimbursement paid to me and that if I fail to comply with the board's demand, that the board may recover the reimbursement, plus administrative and legal expenses in a civil action in district court. I understand that I may also be subject to a civil penalty."

Collin Holzwarth  
Signature of Applicant

Collin Holzwarth  
Name (Please Print)

8/30/91  
Date

Witnessed by:  
JAMES JUDMAN  
Name

8.30.91  
Date

Every applicant must sign Part A. above. If applicant is a corporation or partnership, the following certification must also be made:

"I further certify that I am authorized to sign and submit this application on behalf of

CONTEL OF MINNESOTA, INC."

Collin Holzwarth  
Signature

\_\_\_\_\_  
Name (Please Print)

ENGINEER - BUILDINGS  
Title (See Application Guide, Part VI)

\_\_\_\_\_  
Date

Please send this application and accompanying documents to:

Petroleum Tank Release Compensation Board  
Minnesota Department of Commerce  
133 East Seventh Street  
St. Paul, Minnesota 55101  
(612) 297-4017

- \* Descriptions must be specific as to work performed.
- \* Invoices must be submitted for each cost listed below.
- \* Invoices must contain sufficient detail to verify costs and services entered below.
- \* Duplicate this form if additional worksheets are needed.

## A. SOIL BORINGS/MONITORING WELLS - ETC.

| Description                | Firm Name      | Invoice #<br>or date | Total<br>Units | Unit<br>Costs | Sub-<br>total |
|----------------------------|----------------|----------------------|----------------|---------------|---------------|
| Equipment moving charge    | Thein Well Co. | 4225                 | 1              | \$ 40.00      | \$40.00       |
| 28' soil boring            | Thein Well Co. | 4225                 | 28'            | \$ 5.00       | \$140.00      |
| 28' abandonment            | Thein Well Co. | 4225                 | 28'            | \$ 4.00       | \$112.00      |
| Mobilization               | Thein Well Co. | 4225                 | LS             | NA            | 240.00        |
| Decontamination            | Thein Well Co. | 4225                 | 1.5 hrs        | \$100/hr      | 150.00        |
| PID rental                 | Terracon       | 10706                | 1 day          | \$80/day      | 80.00         |
| Project Geologist/Engineer | Terracon       | 10706                | 10.75 hrs      | \$74/hr       | 795.50        |
| <b>TOTAL</b>               |                |                      |                |               | \$1,557.50    |

## B. LABORATORY TESTS AND ANALYSIS

| Description           | Firm Name          | Invoice #<br>or date | Total<br>Units | Unit<br>Costs | Sub-<br>total |
|-----------------------|--------------------|----------------------|----------------|---------------|---------------|
| Soil samples-BTEX,THC | SERCO Laboratories | 60248                | 2              | \$98 ea.      | \$196.00      |
|                       |                    |                      |                |               |               |
|                       |                    |                      |                |               |               |
|                       |                    |                      |                |               |               |
|                       |                    |                      |                |               |               |
|                       |                    |                      |                |               |               |
|                       |                    |                      |                |               |               |
|                       |                    |                      |                |               |               |
| <b>TOTAL</b>          |                    |                      |                |               | \$196.00      |

## PART IV

## ELIGIBLE COST WORKSHEET - INVESTIGATION AND CLEAN-UP

- \* Descriptions must be specific as to work performed.
- \* Invoices must be submitted for each cost listed below.
- \* Invoices must contain sufficient detail to verify costs and services entered below.
- \* Duplicate this form if additional worksheets are needed.

## C. EXCAVATION

| Description  | Firm Name           | Invoice #<br>or date | Total<br>Units | Unit<br>Costs | Sub-<br>total     |
|--------------|---------------------|----------------------|----------------|---------------|-------------------|
| Labor        | Jerry's Underground | 7736                 | 26 hrs         | \$22/hr       | \$572.00          |
| Backhoe      | Jerry's Underground | 7736                 | 13 hrs         | \$45/hr       | \$585.00          |
|              |                     |                      |                |               |                   |
|              |                     |                      |                |               |                   |
|              |                     |                      |                |               |                   |
|              |                     |                      |                |               |                   |
|              |                     |                      |                |               |                   |
| <b>TOTAL</b> |                     |                      |                |               | <b>\$1,157.00</b> |

## D. SOIL DISPOSAL

| Description      | Firm Name           | Invoice #<br>or date | Total<br>Units      | Unit<br>Costs        | Sub-<br>total    |
|------------------|---------------------|----------------------|---------------------|----------------------|------------------|
| Trucking         | Jerry's Underground | 7736                 | LS                  | NA                   | \$ 135.00        |
| Trucking/Loading | Kahl Excavating     | 6/10/91              | LS                  | NA                   | \$ 400.00        |
| Landfarming      | Matthews Farms      | 8/23/91              | 40 yds <sup>3</sup> | \$45/yd <sup>3</sup> | \$1800.00        |
|                  |                     |                      |                     |                      |                  |
|                  |                     |                      |                     |                      |                  |
|                  |                     |                      |                     |                      |                  |
|                  |                     |                      |                     |                      |                  |
|                  |                     |                      |                     |                      |                  |
| <b>TOTAL</b>     |                     |                      |                     |                      | <b>\$2335.00</b> |



- \* Descriptions must be specific as to work performed.
- \* Invoices must be submitted for each cost listed below.
- \* Invoices must contain sufficient detail to verify costs and services entered below.
- \* Duplicate this form if additional worksheets are needed.

#### H. SITE RESTORATION and CLOSURE

| Description  | Firm Name           | Invoice #<br>or date | Total<br>Units      | Unit<br>Costs          | Sub-<br>total |
|--------------|---------------------|----------------------|---------------------|------------------------|---------------|
| Extra sod    | Jerry's Underground | 4205                 | LS                  | NA                     | \$125.00      |
| Labor        | Jerry's Underground | 4205                 | 4 hrs               | \$30/hr                | \$120.00      |
| Clean fill   | Jerry's Underground | 7736                 | 40 yds <sup>3</sup> | \$5.10/yd <sup>3</sup> | \$204.00      |
|              |                     |                      |                     |                        |               |
|              |                     |                      |                     |                        |               |
|              |                     |                      |                     |                        |               |
|              |                     |                      |                     |                        |               |
|              |                     |                      |                     |                        |               |
| <b>TOTAL</b> |                     |                      |                     |                        | \$449.00      |

#### I. OTHER CLEAN-UP or INVESTIGATION COSTS

| Description  | Firm Name | Invoice #<br>or date | Total<br>Units | Unit<br>Costs | Sub-<br>total |
|--------------|-----------|----------------------|----------------|---------------|---------------|
|              |           |                      |                |               |               |
|              |           |                      |                |               |               |
|              |           |                      |                |               |               |
|              |           |                      |                |               |               |
|              |           |                      |                |               |               |
|              |           |                      |                |               |               |
|              |           |                      |                |               |               |
|              |           |                      |                |               |               |
| <b>TOTAL</b> |           |                      |                |               |               |

PART IV ELIGIBLE COST WORKSHEET -CONSULTANT SERVICES

- \* Description must be specific as to work performed.
- \* Invoices must be submitted for each cost listed below.
- \* Invoices must contain sufficient detail to verify costs and services entered below.
- \* Duplicate this form if additional sheets are needed.

J. REPORT PREPARATION; DATA COLLECTION; OPERATION OVERSIGHT AND MAINTENANCE; SYSTEM MONITORING; CORRESPONDENCE; MILEAGE; POSTAGE; PER DIEM

| Description                    | Firm Name           | Invoice #<br>or date | Total<br>Units | Unit<br>Costs | Sub-<br>total    |
|--------------------------------|---------------------|----------------------|----------------|---------------|------------------|
| Admin./Data Processing         | Thein Well Co.      | 4225                 | 1 hr           | \$40/hr       | \$ 40.00         |
| Mileage                        | Terracon            | 10706                | 188 mi         | \$.40/mi      | \$ 75.20         |
| Clerical                       | Terracon            | 10706                | .5 hr          | \$26/hr       | \$ 13.00         |
| Report Prep.-Senior Geologist  | Terracon            | 10706                | 2.5 hrs        | \$86/hr       | \$215.00         |
| Motel & Meals                  | Jerry's Underground | 7736                 |                |               | \$ 91.25         |
| 1 roll plastic                 | Jerry's Underground | 7736                 | LS             | NA            | \$ 59.75         |
| PID rental                     | SUMMIT              | 5/5/91               | 1/2 day        | \$99/day      | \$ 49.50         |
| Disposables-gloves, jars, etc. | SUMMIT              | 5/5/91               | LS             | NA            | \$ 15.00         |
| Mileage                        | SUMMIT              | 5/5/91               | 199 mi         | \$.50/mi      | \$ 99.50         |
| Project Professional I         | SUMMIT              | 5/5/91               | 9.25 hrs       | \$55/hr       | \$508.75         |
| Principal Professional         | SUMMIT              | 5/5/91               | 1 hr           | \$80/hr       | \$ 80.00         |
| Principal Professional         | SUMMIT              | 5/31/91              | 1 hr           | \$80/hr       | \$ 80.00         |
| Project Professional I         | SUMMIT              | 5/31/91              | 12.5 hrs       | \$55/hr       | \$687.50         |
| Principal Professional         | SUMMIT              | 6/30/91              | 1 hr           | \$80/hr       | \$ 80.00         |
| Principal Professional         | SUMMIT              | 7/31/91              | .25 hr         | \$80/hr       | \$ 20.00         |
| Project Professional I         | SUMMIT              | 7/31/91              | 1.5 hrs        | \$55/hr       | \$ 82.50         |
|                                |                     |                      |                |               |                  |
|                                |                     |                      |                |               |                  |
|                                |                     |                      |                |               |                  |
|                                |                     |                      |                |               |                  |
| <b>TOTAL</b>                   |                     |                      |                |               | <b>\$2196.95</b> |

- \* Descriptions must be specific as to work performed.
- \* Invoices must be submitted for each cost listed below.
- \* Invoices must contain sufficient detail to verify costs and services entered below.
- \* Duplicate this form if additional worksheets are needed.

## K. MARK-UP

| Description    | Firm Name       | General Contractor Invoice # | Sub-Contractor Invoice # | Mark Up % | Sub-Total |
|----------------|-----------------|------------------------------|--------------------------|-----------|-----------|
| Chemistry      | SUMMIT/SERCO    | 5/5/91                       | 60248                    | 15%       | \$ 29.40  |
| Soil Trucking  | SUMMIT/KAHL     | 6/30/91                      | 6/10/91                  | 15%       | \$ 60.00  |
| Soil Treatment | SUMMIT/MATTHEWS | 7/31/91                      | 8/23/91                  | 15%       | \$270.00  |
| Drilling       | SUMMIT/THEIN    | 5/5/91                       | 4225                     | 15%       | \$108.30  |
|                |                 |                              |                          |           |           |
|                |                 |                              |                          |           |           |
|                |                 |                              |                          |           |           |
|                |                 |                              |                          |           |           |
| <b>TOTAL</b>   |                 |                              |                          |           | \$467.70  |

## L. OTHER CONSULTANT SERVICES (specify)

| Description  | Firm Name | Invoice # or date | Total Units | Unit Costs | Sub-total |
|--------------|-----------|-------------------|-------------|------------|-----------|
|              |           |                   |             |            |           |
|              |           |                   |             |            |           |
|              |           |                   |             |            |           |
|              |           |                   |             |            |           |
|              |           |                   |             |            |           |
|              |           |                   |             |            |           |
|              |           |                   |             |            |           |
|              |           |                   |             |            |           |
| <b>TOTAL</b> |           |                   |             |            |           |

CONTRACTORS/CONSULTANTS

Name of individual or firm: Thein Well Co.

Mailing address: P.O. Box 429, Clara City, MN 56222

Contact person: Pete Thein Phone #: (612) 847-3207

Name of individual or firm: Matthews Drainage & Excavating

Mailing address: 12897 Falcon Ave., Glencoe, MN 55336

Contact person: Bob Matthews Phone #: (612) 864-6060

Name of individual or firm: Kahl Excavating

Mailing address: Box 714, Hector, MN 55342

Contact person: Dave Kahl Phone #: (612) 848-2680

Name of individual or firm: SERCO Laboratories

Mailing address: 1931 West County Road C2, St. Paul, MN 55113

Contact person: Diane Anderson Phone #: (612) 636-7173

Name of individual or firm: \_\_\_\_\_

Mailing address: \_\_\_\_\_

Contact person: \_\_\_\_\_ Phone #: ( ) \_\_\_\_\_

Name of individual or firm: \_\_\_\_\_

Mailing address: \_\_\_\_\_

Contact person: \_\_\_\_\_ Phone #: ( ) \_\_\_\_\_

Name of individual or firm: \_\_\_\_\_

Mailing address: \_\_\_\_\_

Contact person: \_\_\_\_\_ Phone #: ( ) \_\_\_\_\_