Wenck Associates, Inc.
1800 Pioneer Creek Ctr.
P.O. Box 249
Maple Plain, MN 55359-0249

(763) 479-4200
Fax (763) 479-4242
E-mail: wenckmp@wenck.com

Wenck

June 19, 2006

Mr. Alex R. Hokenson
Minnesota Pollution Control Agency
Solid Waste Section
520 Lafayette Rd. North
St. Paul, MN 55155-4194

Re: Phase III and Phase IV Hydrogeologic Evaluation Work Plan - Proposed Expansion Area (Attached)
Ulland Bros. Scanlon Demolition Landfill Facility (SW-399)
Wenck File #1393-03

Dear Mr. Hokenson:

As per your e-mail message to me dated June 12, 2006, a revised copy of the above-mentioned work plan is attached. Your comment regarding the EPA Method for TDS was incorporated into this revised version. The revised Work Plan you reviewed included changes that were based on your comments on a second draft we provided on June 5, 2006.

Wenck Associates, Inc. will contact the driller to have the piezometers reclassified as monitoring wells and MDH unique numbers assigned. I will have those numbers forwarded to you as soon as I receive them.

I will be looking for your written confirmation letter regarding this work plan. Thank you for your timely responses throughout this process.

Should you have any questions, please feel free to me at (763) 479-4215.

Sincerely,

WENCK ASSOCIATES, INC.

Geoffrey Nash
Geologist

cc: Tim Grahek, Ulland Bros.

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Ulland Bros. owns and operates the Ulland Bros. Demolition Debris Land Disposal Facility (Demo LDF), near Cloquet, Minnesota (see Figure 1). The Demo LDF is currently operating under Minnesota Pollution Control Agency (MPCA) Permit SW-399. As part of the permitting process, this Phase III and Phase IV Hydrogeologic Evaluation Work Plan for the proposed expansion area was developed.

Wenck Associates, Inc. (Wenck) has been retained by Ulland Bros. Inc. to submit the required Phase III and Phase IV Work Plan to the MPCA for approval.

A. PROPOSED ENVIRONMENTAL MONITORING SYSTEM

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The five (5) monitoring wells (P-1, P-2, P-3, P-4, and P-5) shown on Figure 2 make up the proposed Environmental Monitoring System (EMS) for the entire site (Figure 2). No EMS currently exists. Monitoring point P-1 represents upgradient groundwater conditions and the other four represent downgradient conditions.

It should be noted that because monitoring well P-2 is hydraulically downgradient of the existing demolition landfill area, it is representative of the existing landfill groundwater conditions, not the expansion.

2. Design and Installation Procedures

The monitoring points were installed as piezometers by Engineering Partners Company (EPC) in July 2005 using hollow-stem auger drilling techniques. The piezometers' construction details are described in the attached monitoring point design schematics. The piezometers, which were constructed according to MDH monitoring well specifications, will be re-categorized as monitoring wells upon approval of this Phase III and Phase IV Hydrogeologic Evaluation Work Plan and then well permits will be submitted to the Minnesota Department of Health.

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Monitoring point P-1 is hydraulically upgradient of the proposed landfill expansion area and P3, P-4, and P-5 are located in such a way that they will intercept groundwater moving away from the landfill expansion area (see attached Figures 9 and 10). Monitoring point P-2 is downgradient of the existing landfill.

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The compliance boundary is shown on Figure 2 and corresponds to the property boundary.

5. Monitoring Protocol

Wenck Associates, Inc. will provide the field personnel to perform all field services associated with collection of groundwater samples from the EMS.

The order of sampling will be from the wells located upgradient (P-1) to those located downgradient, starting with the well furthest downgradient (P-3):

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1. Prior to sampling, appropriate personal protective clothing should be donned. This should include, at a minimum, splash goggles, safety boots, and chemical resistant gloves.

2. Inspect well integrity and remove the well cap in order to vent the well.

3. Label all sample containers.

4. Recalibrate field instruments (pH and conductivity meters), if necessary.

5. Replace outer chemical-resistant gloves.

6. Rinse and dry the water level probe (or tape) and record water level measurements and total depths in the bound log book. Rinse and dry the probe after recording measurements.

7. Calculate the volume of water to be removed from the well.

8. Use low flow submersible pump sampling equipment. Lower the pump/tubing assembly to the bottom of the well. Care should be taken to prevent the tubing and/or pump from contacting any potentially contaminated surface.

9. Purge the well of the desired volume of water.

10. During purging of the well, use groundwater discharge from the pump tubing to rinse a clean, untreated jar with the sample water. After rinsing, fill the container with water purged from the well and collect temperature, pH, dissolved oxygen, turbidity, and specific conductance measurements from the sample. Record the measurements obtained in a field log book. If possible, temperature, pH,

dissolved oxygen, turbidity and specific conductance measurements will be repeated each time a well casing volume of water is purged from the well and prior to sample collection.

11. After purging the well, fill the appropriate sample containers with groundwater from the discharge from the pump tubing. When collecting samples for metal analyses, use an appropriate field filter (0.45 micron) to field filter the samples prior to filling the sample containers. Care should be taken to fill all sample jars as required and place them in a cooler packed with ice immediately following their collection.

12. Record time of sampling and quantity of water removed in the bound notebook. A chain of custody form should also be filled out at this time.

13. Close and lock the well. Decontaminate all sampling equipment and down-hole field instruments in accordance with the following subsection entitled, "Sample Equipment Decontamination." If dedicated sampling equipment has been used, kink the discharge tubing so that the tubing will fit inside the well, but remain accessible.

14. Move to the next well and repeat steps 1 through 13, making sure gloves are changed between wells.

6. Water Level Measurements

Depth to the static water table will be measured in each monitoring well prior to purging and sampling. The measurements will be made using an electronic water level indicator. These measurements will be made from the top of well casing used during the level survey and will be made to the nearest 0.01 foot. The wetted portion of the water level indicator will be triple-rinsed with distilled water and wiped dry with a clean paper towel prior to use in another well. The total depth of each well will be measured annually to determine if sediment is filling the well.

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If a monitoring well does not yield sufficient water to allow the purging of three well volumes, the well will be pumped to the maximum extent possible and will then be sampled as soon as the well recovers. If the recovery time exceeds three hours, the well will not be sampled, as a sufficient volume of water is not available.

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Laboratory methods are as follows:

Analyte	EPA Method
VOCs	8260
Metals	6010
Ammonia Nitrogen	350.1
Nitrate + Nitrite, as N	353.2
TSS	160.2
TDS	160.1
Chloride	9056
Sulfate	9056
Sodium, diss.	6010
Spec. Conductivity	9050
Turbidity	180.1
Cation-Anion Balance	-
Zinc, diss.	6010
Eh	-
Alkalinity, total, as calcium carbonate	310.2

9. Sampling Schedule

The background sampling events will take place in May and August of 2006. Regularly scheduled groundwater sampling will be conducted three times per year, in the May, July, and August.

10. Analytical Parameters

It is proposed that, in accordance with Minnesota rules (7035.2815, Subp. 14C) and communication with the MPCA, prior to regularly scheduled seasonal sampling events, the monitoring points will be sampled two times to establish background groundwater

quality values. The two background events will provide the observations and analyses as follows:

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1,1,2-Trichlorotrifluoroethane
1,1-Dichloroethane
1,1-Dichloroethylene (Vinylidene chloride)
1,1-Dichloropropene
1,2-Dichloroethylene (trans)
1,2,3-Trichlorobenzene
1,2,3-Trichloropropane
1,2,4-Trichlorobenzene
1,2,4-Trimethylbenzene
1,2-Dibromoethane (Ethylene dibromide or EDB)
1,2-Dichlorobenzene (orth-)
1,2-Dichloroethane
1,2-Dichloroethylene (cis-)
1,2-Dichloropropane
1,3,5-Trimethylbenzene
1,3-Dichlorobenzene (meta-)
1,3-Dichloropropane
1,3-Dichloropropene (cis + trans)
1,4-Dichlorobenzene (para-)
2,2-Dichloropropane
2-Chlorotoluene (ortho-)
4-Chlorotoluene (para-)
Acetone
Allyl chloride (3 chloropropene)
Benzene
Bromobenzene
Bromochloromethane (Chlorobromomethane)
Bromodichloromethane (Dichlorobromomethane)
Bromoform
Bromomethane (Methyl bromide)
Carbon tetrachloride
Chlorobenzene (monochlorobenzene)
Chlorodibromomethane (Dibromochloromethane)
Chloroethane
Chloroform
Chloromethane (Methyl chloride)
Cumene (Isopropylbenzene)
Dibromochloropropane (DBCP)
Dibromomethane (Methylene bromide)
Dichlorodifluoromethane
Dichlorofluoromethane
Dichloromethane (Methylene chloride)
Ethyl benzene
Ethyl ether
Hexachlorobutadiene
Methyl ethyl ketone (MEK)
Methyl isobutyl ketone (4-Methyl-2-pentanone)
Methyl tertiary-butyl ether (MTBE)
Naphthalene
n-Butyl benzene
n-Propyl benzene
p-Isopropyltoluene
sec-Butyl benzene
Styrene
tert-Butyl benzene
Tetrachloroethylene (Perchloroethylene)
Tetrahydrofuran
Toluene
Trichloroethylene (TCE)
Trichlorofluoromethane
Vinyl chloride (chloroethene)
Xylenes (mixture of o, m, p)

Inorganics

Alkalinity, total as calcium carbonate	Copper, dissolved	Appearance (b)
Ammonia Nitrogen	Iron, dissolved	Dissolved Oxygen, field
Arsenic, dissolved	Lead, dissolved	pH (a)
Barium, dissolved	Manganese, dissolved	Specific Conductance (a)
Boron, dissolved	Mercury, dissolved	Temperature (a)
Cadmium, dissolved	Nitrate + Nitrite, as N	Turbidity, field
Chloride	Sodium, dissolved	Water Elevation (c)
Chromium, total dissolved	Sulfate	
	Suspended Solids, total	

Footnotes:
(a) Two measurements: in field, immediately after obtaining sample, and in laboratory.
(b) Visual observation, in field and laboratory, noting conditions such as the following, if present: color, cloudiness, floating films, other liquid or gas phases, odor.
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11. Sample Containers

All sample containers will be obtained from an independent commercial laboratory (i.e., ESC). Groundwater samples will be placed in containers specially prepared by the laboratory. Samples collected for metal analyses will be filtered in the field using appropriate filtering equipment (0.45 micron filters).

Sample containers will be labeled with a waterproof pen at the time of collection to prevent sample misidentification. The sample label will include the following information.

- Place of Collection
- Sample Identification Number
- Date and Time of Collection
- Initials of Collector
- Analytical Parameter(s)
- Preservative (if any)

The name of the collector, site location, date and the time of collection will be logged in the field book.

12. Sample Handling

Immediately following their collection, samples will be placed in a cooler with ice packs to prevent or retard the alteration of chemicals in the samples. The sample containers will be packed in the cooler in a manner that will minimize the possibility of breakage. Following collection the samples will be submitted to ESC with chain of custody documentation.

13. Sample Documentation

All sample collection activities will be documented in a bound log book and the groundwater sampling field data log sheets. These will contain, at a minimum, the following information.

- Place of Collection
- Sample Identification Number
- Date and Time of Collection
- Total Depth of Well
- Length of Water Column
- Volume of Water in Well
- Three Well Volumes
- Actual Volume of Water Removed
- Type of Sample Container(s)
- Field Observations (weather, odor, etc.)
- Name of Person Collecting Sample
- Preservation Method (if any)
- Requested Analyses to be Conducted

In addition, all samples will be accompanied by appropriate chain of custody documentation. Chain of custody record forms will be filled out by sampling personnel following sample collection.

14. Data Submittals to the MPCA

All water quality data collected will be submitted to the MPCA as a both a hard copy and in an electronic format as outlined in the MPCA Solid Waste Program Electronic Laboratory Data Submittal Manual.

Upon approval of this Phase III and Phase IV Hydrogeologic Evaluation Work Plan and following authorization from Ulland Bros., Wenck Associates, Inc. will begin to collect groundwater quality data and submit the monitoring and quality assurance data, analysis of water quality trends, and identification of constituents that exceed groundwater performance standards of subpart 4 to the MPCA for review.

Should you have any questions regarding this plan, please feel free to contact Joe Palo at (218) 865-0120 or Geoffrey Nash at (763) 479-4215.

Sincerely,

WENCK ASSOCIATES, INC.

Joseph Palo
Project Manager

Geoffrey Nash
Geologist

cc: Tim Grahek, Ulland Bros.

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Ethyl benzene
Ethyl ether
Hexachlorobutadiene
Methyl ethyl ketone (MEK)
Methyl isobutyl ketone (4-Methyl-2-pentanone)
Methyl tertiary-butyl ether (MTBE)
Naphthalene
n-Butyl benzene
n-Propyl benzene
p-Isopropyltoluene
sec-Butyl benzene
Styrene
tert-Butyl benzene
Tetrachloroethylene (Perchloroethylene)
Tetrahydrofuran
Toluene
Trichloroethylene (TCE)
Trichlorofluoromethane
Vinyl chloride (chloroethene)
Xylenes (mixture of o, m, p)

Inorganics

Alkalinity, total as calcium carbonate	Copper, dissolved	Appearance (b)
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Arsenic, dissolved	Lead, dissolved	pH (a)
Barium, dissolved	Manganese, dissolved	Specific Conductance (a)
Boron, dissolved	Mercury, dissolved	Temperature (a)
Cadmium, dissolved	Nitrate + Nitrite, as N	Turbidity, field
Chloride	Sodium, dissolved	Water Elevation (c)
Chromium, total dissolved	Sulfate	
	Suspended Solids, total	

Footnotes:
(a) Two measurements: in field, immediately after obtaining sample, and in laboratory.
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The name of the collector, site location, date and the time of collection will be logged in the field book.

12. Sample Handling

Immediately following their collection, samples will be placed in a cooler with ice packs to prevent or retard the alteration of chemicals in the samples. The sample containers will be packed in the cooler in a manner that will minimize the possibility of breakage. Following collection the samples will be submitted to ESC with chain of custody documentation.

13. Sample Documentation

All sample collection activities will be documented in a bound log book and the groundwater sampling field data log sheets. These will contain, at a minimum, the following information.

- Place of Collection
- Sample Identification Number
- Date and Time of Collection
- Total Depth of Well
- Length of Water Column
- Volume of Water in Well
- Three Well Volumes
- Actual Volume of Water Removed
- Type of Sample Container(s)
- Field Observations (weather, odor, etc.)
- Name of Person Collecting Sample
- Preservation Method (if any)
- Requested Analyses to be Conducted

In addition, all samples will be accompanied by appropriate chain of custody documentation. Chain of custody record forms will be filled out by sampling personnel following sample collection.

14. Data Submittals to the MPCA

All water quality data collected will be submitted to the MPCA as a both a hard copy and in an electronic format as outlined in the MPCA Solid Waste Program Electronic Laboratory Data Submittal Manual.

Upon approval of this Phase III and Phase IV Hydrogeologic Evaluation Work Plan and following authorization from Ulland Bros., Wenck Associates, Inc. will begin to collect groundwater quality data and submit the monitoring and quality assurance data, analysis of water quality trends, and identification of constituents that exceed groundwater performance standards of subpart 4 to the MPCA for review.

Should you have any questions regarding this plan, please feel free to contact Joe Palo at (218) 865-0120 or Geoffrey Nash at (763) 479-4215.

Sincerely,

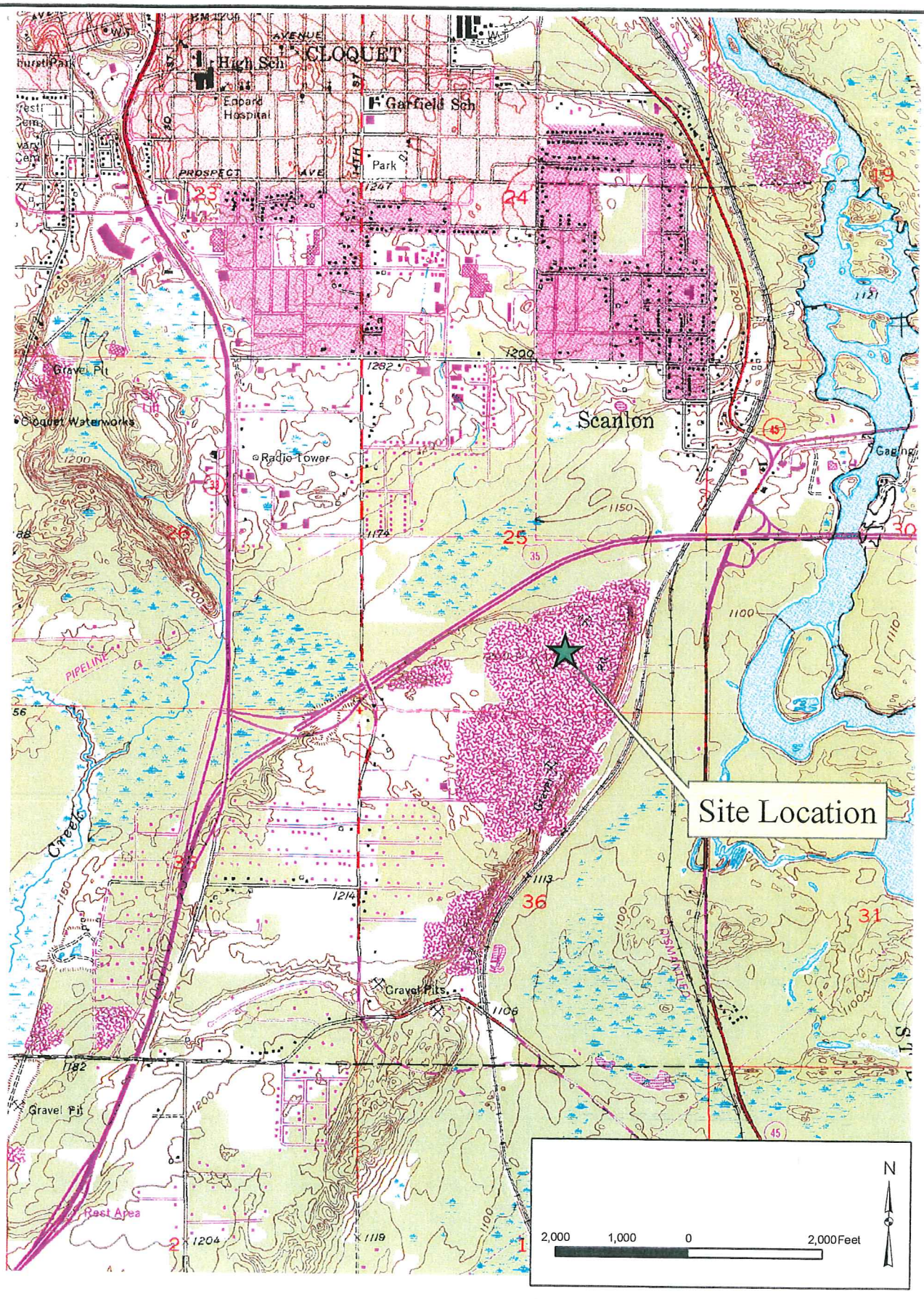
WENCK ASSOCIATES, INC.

Joseph Palo
Project Manager

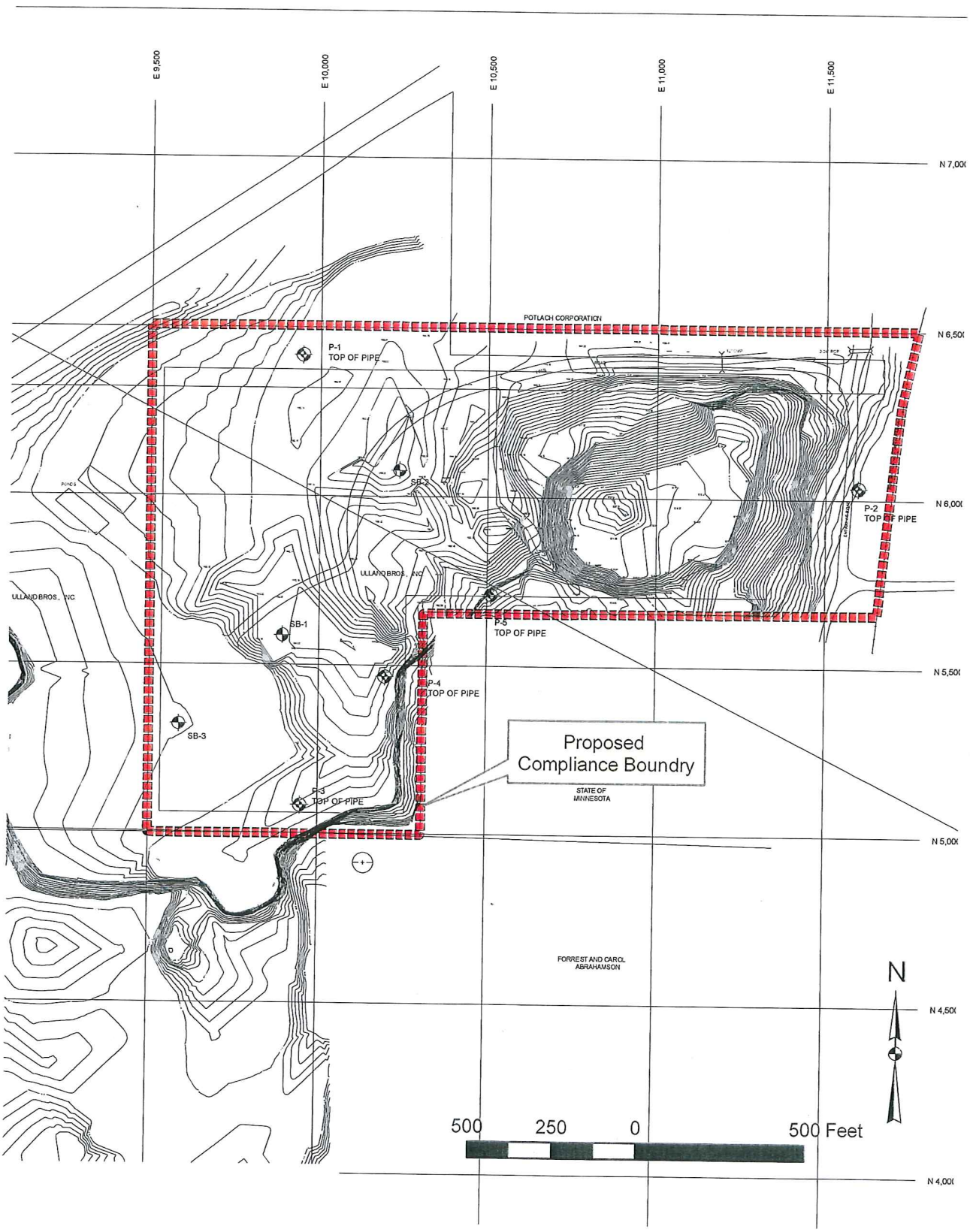
Geoffrey Nash
Geologist

cc: Tim Grahek, Ulland Bros.

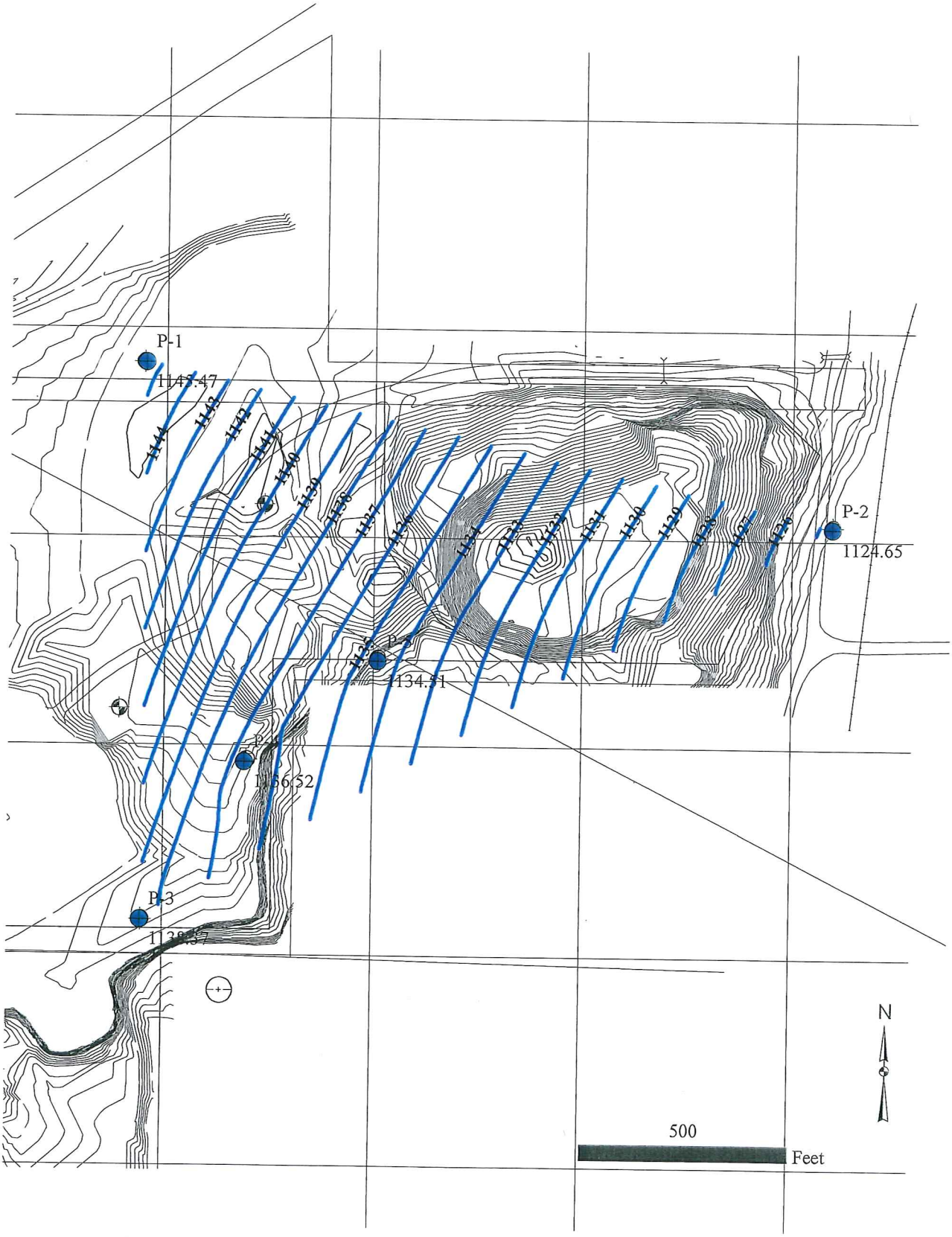
Figures



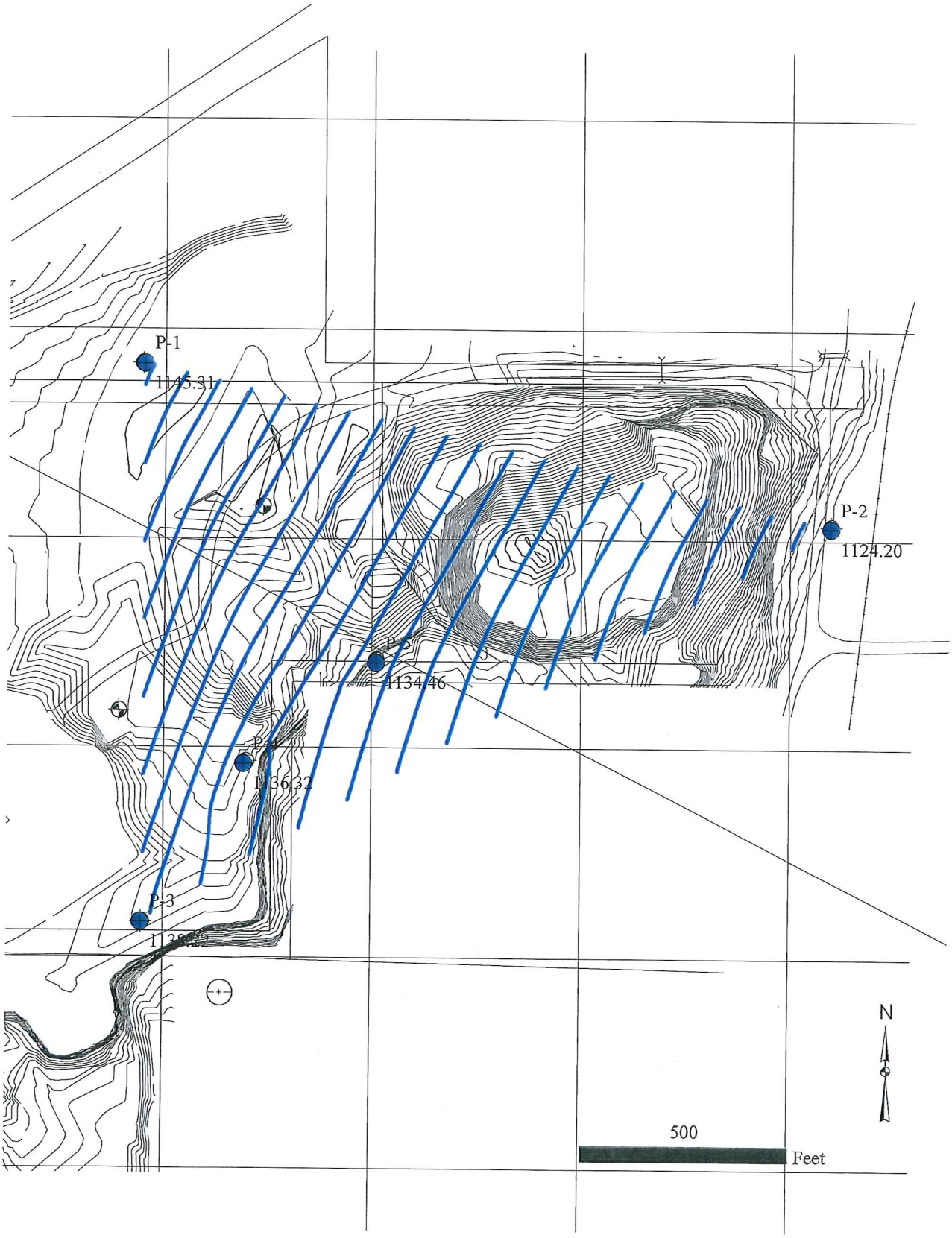
Ulland Bros. Demo LDF - Scanlon, MN	Wenck Wenck Associates, Inc. 1800 Pioneer Creek Center Environmental Engineers Maple Plain, MN 55359-0429	Aug. 2005
Site Location Map		Figure 1



Ulland Bros. Demo LDF - Scanlon, MN	Wenck	May 06
Proposed Compliance Boundary	Wenck Associates, Inc. 1800 Pioneer Creek Center Environmental Engineers Maple Plain, MN 55359-0429	Figure 2



Ulland Bros. Demo LDF - Scanlon, MN	Wenck		Aug. 2005
Ground Water Contour 7-14-05	Wenck Associates, Inc. 1800 Pioneer Creek Center Environmental Engineers Maple Plain, MN 55359-0429		Figure 9



Ulland Bros. Demo LDF - Scanlon, MN	Wenck		Aug. 2005
Ground Water Contour 7-21-05	Wenck Associates, Inc. 1800 Pioneer Creek Center Environmental Engineers Maple Plain, MN 55359-0429		Figure 10

Wenck Associates, Inc.
1800 Pioneer Creek Center
Maple Plain, MN 55359
Telephone: 763-479-4200
Fax: 763-479-4242

WELL NUMBER P-1

CLIENT Ulland Brothers
PROJECT NAME Phase II Report
PROJECT NUMBER 1393-03
PROJECT LOCATION Scanlon, MN
DATE STARTED 7/6/05 COMPLETED 7/6/05
GROUND ELEVATION 1152.37 ft HOLE SIZE 4.25
DRILLING CONTRACTOR EPC
GROUND WATER LEVELS:
DRILLING METHOD Hollow-stem auger
AT TIME OF DRILLING 4.0 ft / Elev 1148.4 ft
LOGGED BY Brian Hayden, PG CHECKED BY
AT END OF DRILLING 4.0 ft / Elev 1148.4 ft
NOTES NW crn of cell. Well has 2.5-ft protective casing with locking top.
AFTER DRILLING 4.0 ft / Elev 1148.4 ft

DEPTH (ft)	SAMPLE TYPE NUMBER	RECOVERY %	BLOW COUNTS (N VALUE)	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION	WELL DIAGRAM
0	SS	25	2-12-7-7 (19)	SP			Bentonite Seal
5	SS	58	3-4-3-3 (7)				Sand Pack
10	SS	83	6-12-15-18 (27)				10-slot screen
						14.5 1137.9	
	SS	0	50			Bedrock slate 16.5 1135.9	
						Bottom of hole at 14.5 feet.	

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Fax: 763-479-4242

WELL NUMBER P-2

CLIENT Ulland Brothers
PROJECT NAME Phase II Report
PROJECT NUMBER 1393-03
PROJECT LOCATION Scanlon, MN
DATE STARTED 7/5/05 COMPLETED 7/5/05
GROUND ELEVATION 1131.19 ft HOLE SIZE 4.25
DRILLING CONTRACTOR EPC
GROUND WATER LEVELS:
DRILLING METHOD Hollow-stem auger
▽ AT TIME OF DRILLING 2.0 ft / Elev 1129.2 ft
LOGGED BY Brian Hayden, PG CHECKED BY
▼ AT END OF DRILLING 2.0 ft / Elev 1129.2 ft
NOTES East side LF. Well has 2.5-ft protective casing with locking top.
▽ AFTER DRILLING 2.0 ft / Elev 1129.2 ft

DEPTH (ft)	SAMPLE TYPE NUMBER	RECOVERY %	BLOW COUNTS (N VALUE)	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION	WELL DIAGRAM
0.0	SS	25	5-3-10-18 (13)	SP			Bentonite Seal
2.5							
5.0	SS	67	4-6-12-15 (18)				Sand Pack
							10-slot screen
						7.0 / 1124.2	
	SS	0	50			slate	
						9.0 / 1122.2	
						Bottom of hole at 7.0 feet.	

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WELL NUMBER P-3

CLIENT Ulland Brothers
PROJECT NAME Phase II Report
PROJECT NUMBER 1393-03
PROJECT LOCATION Scanlon, MN
DATE STARTED 7/5/05 COMPLETED 7/5/05
GROUND ELEVATION 1142.91 ft HOLE SIZE 4.25
DRILLING CONTRACTOR EPC
GROUND WATER LEVELS:
DRILLING METHOD Hollow-stem auger
AT TIME OF DRILLING 4.0 ft / Elev 1138.9 ft
LOGGED BY Brian Hayden, PG CHECKED BY
AT END OF DRILLING 4.0 ft / Elev 1138.9 ft
NOTES SW crn of cell. Well has 2.5-ft protective casing with locking top.
AFTER DRILLING 4.0 ft / Elev 1138.9 ft

DEPTH (ft)	SAMPLE TYPE NUMBER	RECOVERY %	BLOW COUNTS (N VALUE)	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION	WELL DIAGRAM
0.0	SS	8	2-4-6-8 (10)	SP			Bentonite Seal
2.5							
5.0	SS	50	10-14-16-10 (30)				Sand Pack
7.5							10-slot screen
10.0	SS	0	50			10.0 1132.9	
						12.0 1130.9	

393-03.GPJ WENCK.GDT 3/2/06

GENERAL BH / TP /

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Fax: 763-479-4242

WELL NUMBER P-4

CLIENT Ulland Brothers
PROJECT NAME Phase II Report
PROJECT NUMBER 1393-03
PROJECT LOCATION Scanlon, MN
DATE STARTED 7/5/05 COMPLETED 7/5/05
GROUND ELEVATION 1138.91 ft HOLE SIZE 4.25
DRILLING CONTRACTOR EPC
GROUND WATER LEVELS:
DRILLING METHOD Hollow-stem auger
AT TIME OF DRILLING 4.0 ft / Elev 1134.9 ft
LOGGED BY Brian Hayden, PG CHECKED BY
AT END OF DRILLING 4.0 ft / Elev 1134.9 ft
NOTES South side of cell. Well has 2.5-ft protective casing with locking top.
AFTER DRILLING 4.0 ft / Elev 1134.9 ft

DEPTH (ft)	SAMPLE TYPE NUMBER	RECOVERY %	BLOW COUNTS (N VALUE)	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION	WELL DIAGRAM
0.0	SS	67	4-3-2-7 (5)	SP			Bentonite Seal
2.5							Sand Pack
5.0	SS	75	3-2-4-8 (6)				10-slot screen
7.5							
10.0	SS	0	50			10.5 1128.4	
						12.5 1126.4	

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WELL NUMBER P-5

CLIENT Ulland Brothers
PROJECT NAME Phase II Report
PROJECT NUMBER 1393-03
PROJECT LOCATION Scanlon, MN
DATE STARTED 7/6/05 COMPLETED 7/6/05
GROUND ELEVATION 1162.95 ft HOLE SIZE 4.25
DRILLING CONTRACTOR EPC
GROUND WATER LEVELS:
DRILLING METHOD Hollow-stem auger
AT TIME OF DRILLING 28.0 ft / Elev 1135.0 ft
LOGGED BY Brian Hayden, PG CHECKED BY
AT END OF DRILLING 28.0 ft / Elev 1135.0 ft
NOTES South side of cell. Well has 2.5-ft protective casing with locking top.
AFTER DRILLING 28.0 ft / Elev 1135.0 ft

DEPTH (ft)	SAMPLE TYPE NUMBER	RECOVERY %	BLOW COUNTS (N VALUE)	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION	WELL DIAGRAM
0	SS	75	4-6-6-5 (12)	SP			
5	SS	58	1-2-1-1 (3)				
10	SS	58	6-5-9-10 (14)				Bentonite Seal
15	SS	71	5-10-14-15 (24)				
20	SS	79	4-5-15-21 (20)				
25	SS	63	9-10-15-20 (25)				
30	SS	0					Sand Pack
							10-slot screen
	SS	0	50			34.0 / 1129.0 slate 36.0 / 1127.0 Bottom of hole at 34.0 feet.	

COMPLETION REPORT OF WELL No. P-1

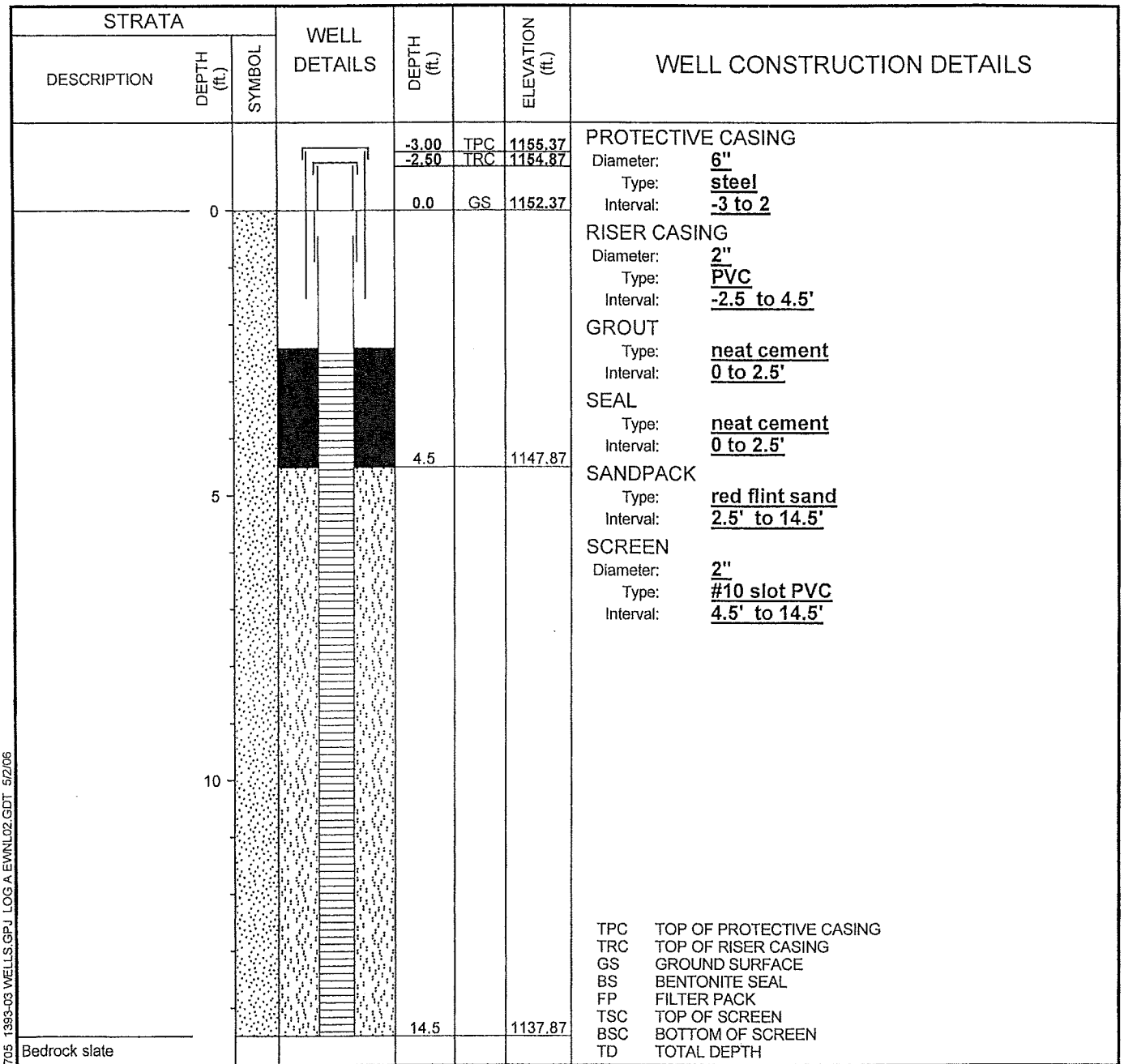
PROJECT: **Phase II Report**
PROJECT NO: **1393-03**
PROJECT LOCATION: **Scanlon, MN**

WATER LEVEL: ▽ ____ ▼ ____ ▼ ____
DATE: ____ ____ ____
TIME: ____ ____ ____

GROUND SURFACE ELEVATION: **1152.4**
DATUM:

DRILLING CONTRACTOR: **EPI**
DRILLING METHOD: **HSA**
DATE COMPLETED: **July 6, 2005**

LOGGED BY: **Brian Hayden, PG**
CHECKED BY:



WELL CONSTRUCTION DETAILS

PROTECTIVE CASING
Diameter: 6"
Type: steel
Interval: -3 to 2

RISER CASING
Diameter: 2"
Type: PVC
Interval: -2.5 to 4.5'

GROUT
Type: neat cement
Interval: 0 to 2.5'

SEAL
Type: neat cement
Interval: 0 to 2.5'

SANDPACK
Type: red flint sand
Interval: 2.5' to 14.5'

SCREEN
Diameter: 2"
Type: #10 slot PVC
Interval: 4.5' to 14.5'

TPC	TOP OF PROTECTIVE CASING
TRC	TOP OF RISER CASING
GS	GROUND SURFACE
BS	BENTONITE SEAL
FP	FILTER PACK
TSC	TOP OF SCREEN
BSC	BOTTOM OF SCREEN
TD	TOTAL DEPTH

Wenck Associates
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COMPLETION REPORT OF WELL No. P-1

COMPLETION REPORT OF WELL No. P-2

PROJECT: **Phase II Report**
PROJECT NO: **1393-03**
PROJECT LOCATION: **Scanlon, MN**

WATER LEVEL: ▽ ▼ ▼
DATE:
TIME:

GROUND SURFACE ELEVATION: **1131.2**
DATUM:

DRILLING CONTRACTOR: **EPI**
DRILLING METHOD: **HSA**
DATE COMPLETED: **July 5, 2005**

LOGGED BY: **Brian Hayden, PG**
CHECKED BY:

STRATA DESCRIPTION	DEPTH (ft.)	SYMBOL	WELL DETAILS	DEPTH (ft.)		ELEVATION (ft.)
				-3.00	TPC	1134.19
				-2.50	TRC	1133.69
				0.0	GS	1131.19
	0			1.5		1129.69
	5			7.0		1124.19
slate						

WELL CONSTRUCTION DETAILS

PROTECTIVE CASING
Diameter: 6"
Type: steel
Interval: -3 to 2

RISER CASING
Diameter: 2"
Type: PVC
Interval: -2.5 to 2'

GROUT
Type: neat cement
Interval: 0 to 1.5'

SEAL
Type: neat cement
Interval: 0 to 1.5'

SANDPACK
Type: red flint sand
Interval: 1' to 7'

SCREEN
Diameter: 2"
Type: #10 slot PVC
Interval: 2' to 7'

TPC	TOP OF PROTECTIVE CASING
TRC	TOP OF RISER CASING
GS	GROUND SURFACE
BS	BENTONITE SEAL
FP	FILTER PACK
TSC	TOP OF SCREEN
BSC	BOTTOM OF SCREEN
TD	TOTAL DEPTH

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COMPLETION REPORT OF WELL No. P-2

COMPLETION REPORT OF WELL No. P-3

PROJECT: **Phase II Report**
PROJECT NO: **1393-03**
PROJECT LOCATION: **Scanlon, MN**

WATER LEVEL: ▽ ____ ▼ ____ ▼ ____
DATE: ____ ____ ____
TIME: ____ ____ ____

GROUND SURFACE ELEVATION: **1142.9**
DATUM:

DRILLING CONTRACTOR: **EPI**
DRILLING METHOD: **HSA**
DATE COMPLETED: **July 5, 2005**

LOGGED BY: **Brian Hayden, PG**
CHECKED BY:

STRATA DESCRIPTION	DEPTH (ft.)	SYMBOL	WELL DETAILS	DEPTH (ft.)		ELEVATION (ft.)
				-3.00	TPC	1145.91
				-2.50	TRC	1145.41
				0.0	GS	1142.91
	0					
				3.0		1139.91
	5					
				10.0		1132.91
	10					

WELL CONSTRUCTION DETAILS

PROTECTIVE CASING
Diameter: 6"
Type: steel
Interval: -3 to 2

RISER CASING
Diameter: 2"
Type: PVC
Interval: -2.5 to 5

GROUT
Type: neat cement
Interval: 0 to 3'

SEAL
Type: neat cement
Interval: 0 to 3'

SANDPACK
Type: red flint sand
Interval: 3 to 10'

SCREEN
Diameter: 2"
Type: #10 slot PVC
Interval: 5 to 10'

TPC	TOP OF PROTECTIVE CASING
TRC	TOP OF RISER CASING
GS	GROUND SURFACE
BS	BENTONITE SEAL
FP	FILTER PACK
TSC	TOP OF SCREEN
BSC	BOTTOM OF SCREEN
TD	TOTAL DEPTH

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COMPLETION REPORT OF WELL No. P-3

COMPLETION REPORT OF WELL No. P-4

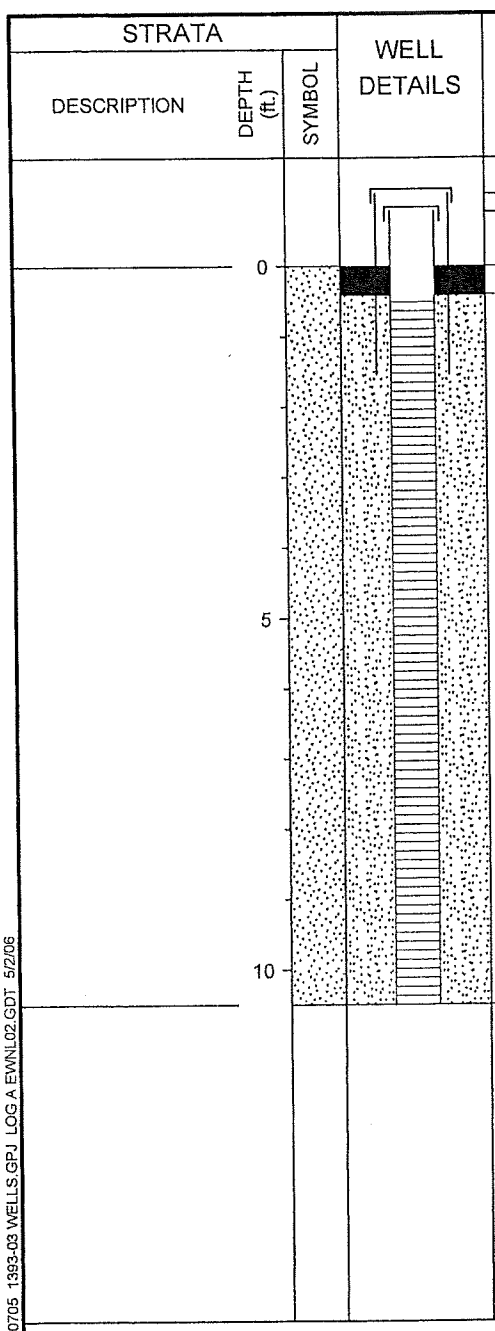
PROJECT: **Phase II Report**
PROJECT NO: **1393-03**
PROJECT LOCATION: **Scanlon, MN**

WATER LEVEL: ▽ ▼ ▼
DATE:
TIME:

GROUND SURFACE ELEVATION: **1138.9**
DATUM:

DRILLING CONTRACTOR: **EPI**
DRILLING METHOD: **HSA**
DATE COMPLETED: **July 5, 2005**

LOGGED BY: **Brian Hayden, PG**
CHECKED BY:



DEPTH (ft.)		ELEVATION (ft.)
-3.00	TPC	1141.91
-2.50	TRC	1141.41
0.0	GS	1138.91
0.4		1138.51
10.5		1128.41

WELL CONSTRUCTION DETAILS

PROTECTIVE CASING
Diameter: 6"
Type: steel
Interval: -3 to 2

RISER CASING
Diameter: 2"
Type: PVC
Interval: -2.5 to 0.5'

GROUT
Type: neat cement
Interval: 0 to 0.5'

SEAL
Type: neat cement
Interval: 0 to 0.5'

SANDPACK
Type: red flint sand
Interval: 0.5' 10.5'

SCREEN
Diameter: 2"
Type: #10 slot PVC
Interval: 0.5' -to 10'

TPC	TOP OF PROTECTIVE CASING
TRC	TOP OF RISER CASING
GS	GROUND SURFACE
BS	BENTONITE SEAL
FP	FILTER PACK
TSC	TOP OF SCREEN
BSC	BOTTOM OF SCREEN
TD	TOTAL DEPTH

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COMPLETION REPORT OF WELL No. P-4

COMPLETION REPORT OF WELL No. P-5

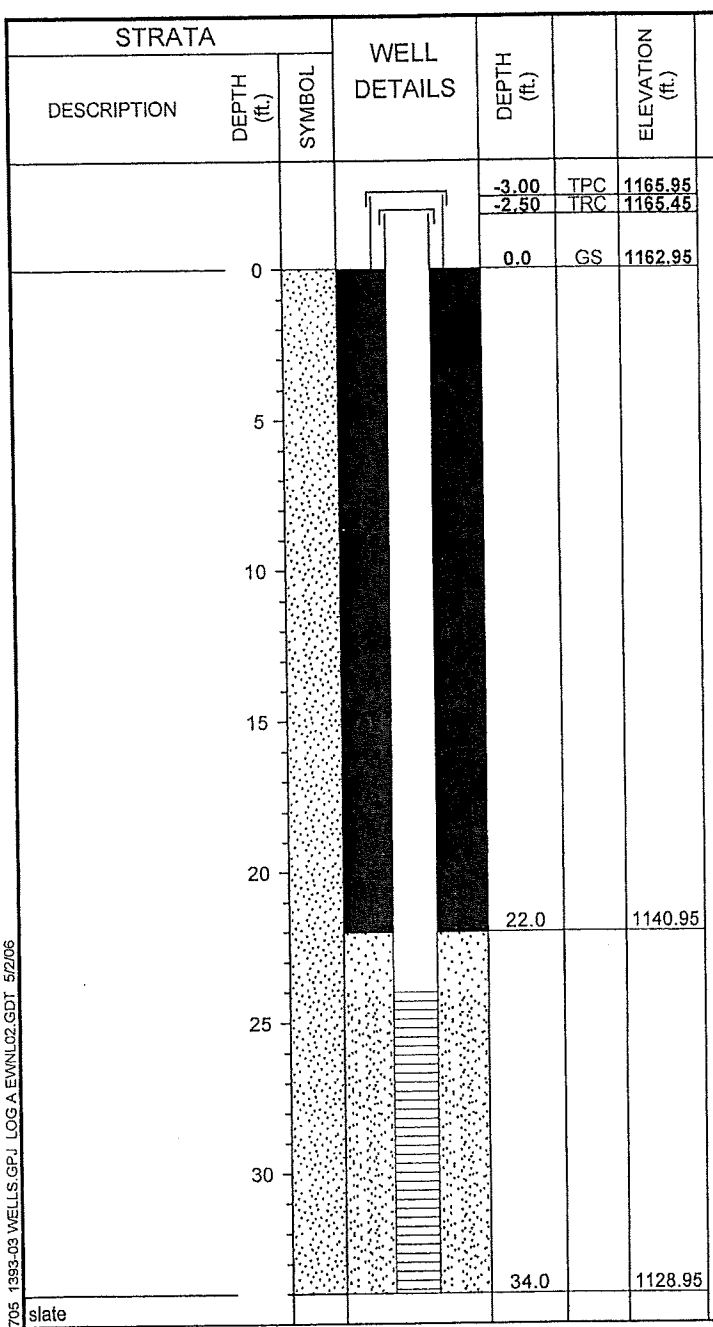
PROJECT: **Phase II Report**
PROJECT NO: **1393-03**
PROJECT LOCATION: **Scanlon, MN**

WATER LEVEL: ▽ ____ ▼ ____ ▼ ____
DATE: ____ ____ ____
TIME: ____ ____ ____

GROUND SURFACE ELEVATION: **1163.0**
DATUM:

DRILLING CONTRACTOR: **EPI**
DRILLING METHOD: **HSA**
DATE COMPLETED: **July 6, 2005**

LOGGED BY: **Brian Hayden, PG**
CHECKED BY:



WELL CONSTRUCTION DETAILS

PROTECTIVE CASING
Diameter: 6"
Type: steel
Interval: -3 to 2

RISER CASING
Diameter: 2"
Type: PVC
Interval: -2.5 to 24'

GROUT
Type: neat cement
Interval: 0 to 22'

SEAL
Type: neat cement
Interval: 0 to 22'

SANDPACK
Type: red flint sand
Interval: 22' to 34'

SCREEN
Diameter: 2"
Type: #10 slot PVC
Interval: 24' to 34'

TPC	TOP OF PROTECTIVE CASING
TRC	TOP OF RISER CASING
GS	GROUND SURFACE
BS	BENTONITE SEAL
FP	FILTER PACK
TSC	TOP OF SCREEN
BSC	BOTTOM OF SCREEN
TD	TOTAL DEPTH

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COMPLETION REPORT OF WELL No. P-5