

From:

WJ Wojner

Re: Groundwater Use Restriction  
GIS Registry Data

Site Name/Address:

Jefferson Ice Pump

352 EAST RACINE STREET

Jefferson

BRRTS #:

03 28 001338

Date of Closure Decision:

7 3 01

GPS data: X617691 Y282068

Off-site Contamination

Right-of-way Contamination

Packet Contains:

- FINAL Closure Letter October 5, 2001
- CONDITIONAL closure letter August 15, 2001
- All property deeds with 140 ES exceedances
- Groundwater Use Restriction
- Metes/bounds legal description (certified survey) on GUR
- Tax parcel number on GUR
- GPS data for each affected property
- General location map
- Detailed location map, showing all parcels affected by 140 ES exceedances, property boundaries, buildings, etc. Figure 7
- Latest map showing gw flow direction, MW, potable wells. [optional: Isoconcentration maps of compounds => ES]
- Latest map showing extent or outline of contamination plume and gw flow direction
- Latest table of analytical results Figure 7
- Geologic cross section



State of Wisconsin \ DEPARTMENT OF NATURAL RESOURCES

Scott McCallum, Governor  
Darrell Bazzell, Secretary  
Ruthe E. Badger, Regional Director

South Central Region Headquarters  
3911 Fish Hatchery Road  
Fitchburg, Wisconsin 53711-5397  
Telephone 608-275-3266  
FAX 608-275-3338  
TTY 608-275-3231

October 5, 2001

File Ref: 03-28-001338

Mr Kilung So  
352 East Racine Street  
Jefferson WI 53549

Subject: Final Closure, Jefferson Ice Pump Closure Request, 352 East Racine Street, Jefferson

Dear Mr. So:

On July 3, 2001, the South Central Region Closure Committee reviewed and conditionally approved your request for closure of the case described above. Your case can now be closed under s. NR 726.05, Wisconsin Administrative Code, because the following conditions are satisfied:

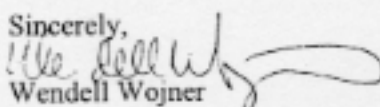
1. MONITORING WELL ABANDONMENT Documentation of the proper abandonment of the monitoring wells and soil vapor and groundwater extraction system wells, and other remediation system wells at the site was received on October 1, 2001. This action satisfied this condition for the site closure process.
2. GROUNDWATER USE RESTRICTION A copy of the property deed with the documentation of the filing at the Jefferson County Register of Deeds Office was received on October 1, 2001. This action satisfied this condition for the site closure process.

Based on the correspondence and data provided, it appears that your site has been remediated to Department standards in accordance with s. NR 726.05, Wis. Adm. Code. The Department considers this case closed and no further investigation, remediation or other action is required at this time.

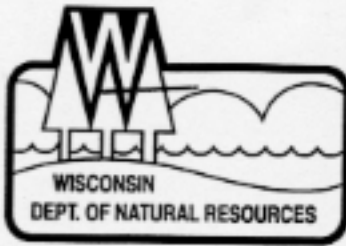
**State Statute 101.143 requires that owners seeking reimbursement of interest costs from the PECFA Program submit a final reimbursement claim within 120 days after they receive a closure letter on their site. If you are eligible for the PECFA Program, and anticipate filing a PECFA reimbursement claim that includes interest costs, you must file a final reimbursement claim to the Department of Commerce within 120 days from receipt of this letter. If you fail to file a claim within that 120-day period, subsequent interest costs will not be eligible for reimbursement by PECFA.**

Please be aware that the case may be reopened pursuant to s. NR 726.09, Wis. Adm. Code, if additional information regarding site conditions indicates that contamination on or from the site poses a threat to public health, safety, or welfare or to the environment.

We appreciate your efforts to restore the environment at this site. If you have any questions regarding this letter, please contact me at the address listed above or call me at (608)275-3297.

Sincerely,  
  
Wendell Wojner

cc: Tim Ryan, BT2 Inc., 2830 Dairy Drive, Madison WI 53718



## State of Wisconsin \ DEPARTMENT OF NATURAL RESOURCES

Scott McCallum, Governor  
Darrell Bazzell, Secretary  
Ruth E. Badger, Regional Director

South Central Region Headquarters  
3911 Fish Hatchery Road  
Fitchburg, Wisconsin 53711-5397  
Telephone 608-275-3266  
FAX 608-275-3338  
TTY 608-275-3231

August 15, 2001

File Ref: 03-28-001338

Mr Kilung So  
352 East Racine Street  
Jefferson WI 53549

Subject: Jefferson Ice Pump Closure Request, 352 East Racine Street, Jefferson

Dear Mr. So:

On July 3, 2001, the South Central Region Closure Committee reviewed and conditionally approved your request for closure of the case described above. Your case will be closed under s. NR 726.05, Wisconsin Administrative Code, when the following conditions are satisfied:

1. **MONITORING WELL ABANDONMENT** The monitoring wells and soil vapor and groundwater extraction system wells, and other remediation system wells at the site must be properly abandoned in compliance with ch. NR 141, Wis. Adm. Code, unless long term groundwater monitoring is going to be conducted. If monitoring wells will not be immediately abandoned because future groundwater monitoring is planned, you will need to notify me of your monitoring plans in order to qualify for case closure. Documentation of well abandonment must be submitted to me on forms provided by the Department of Natural Resources.
2. **GROUNDWATER USE RESTRICTION** Section NR 726.05(2)(b), Wis. Adm. Code, provides that if groundwater contamination still exceeds NR 140 enforcement standards when a closure request is submitted, a case may only be closed if a groundwater use restriction is recorded for each property where enforcement standards are exceeded (including street or highway rights-of-way). Therefore, recording the required groundwater use restriction is an option that the Department can offer to you in order to close this case. If you choose not to accept this option, you may be required to conduct additional groundwater monitoring and may choose to perform additional investigation and cleanup of the remaining contamination in order to qualify for unconditional closure. However, you should note that additional investigation or cleanup work might not be eligible for reimbursement from the Petroleum Environmental Cleanup Fund Award (PECFA) Program. You should contact the Department of Commerce to determine if the additional work will be eligible for reimbursement.

A copy of the property deed or deeds has been received and used to prepare a draft groundwater use restriction document. I have enclosed the document and if you agree with it, you should sign it and have it recorded at the Jefferson County Register of Deeds Office, and then submit a copy of the recorded document, with the recording information stamped on it, to me. Please be aware that if a groundwater use restriction is recorded for the wrong property because of an inaccurate legal description that you have provided, you will be responsible for recording corrected documents at the Register of Deeds Office to correct the problem.

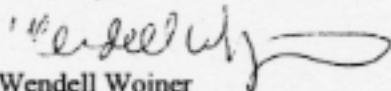
If there is residual groundwater or soil contamination in a public street or highway right-of-way, you should contact the municipality or state agency that maintains the street or highway to make sure that they are aware of the residual contamination, and negotiate an agreement with the municipality or state agency regarding the proper handling and disposal of any contaminated groundwater that may be extracted, and any contaminated soil that may be excavated, if the street or highway is reconstructed in the future.

When the above conditions have been satisfied, please submit a letter to let me know that applicable conditions have been met, and your case will be closed.

Please be aware that the case may be reopened pursuant to s. NR 726.09, Wis. Adm. Code, if additional information regarding site conditions indicates that contamination on or from the site poses a threat to public health, safety, or welfare or to the environment.

We appreciate your efforts to restore the environment at this site. If you have any questions regarding this letter, please contact me at the address listed above or as indicated below.

Sincerely,



Wendell Wojner  
Hydrogeologist  
(608) 275-3297

cc: Tim Ryan, BT2 Inc., 2830 Dairy Drive, Madison WI 53718



NOW THEREFORE, the owner hereby declares that all of the property described above is held and shall be held, conveyed or encumbered, leased, rented, used, occupied and improved subject to the following limitation and restrictions:

Anyone who proposes to construct or reconstruct a well on this property is required to contact the Department of Natural Resources' Bureau of Drinking Water and Groundwater, or its successor agency, to determine what specific requirements are applicable, prior to constructing or reconstructing a well on this property. No well may be constructed on this property unless applicable requirements are met.

If construction is proposed on this property that will require dewatering, or if groundwater is to be otherwise extracted from this property, while this groundwater use restriction is in effect, the groundwater shall be sampled and analyzed for contaminants that were previously detected on the property and any extracted groundwater shall be managed in compliance with applicable statutes and rules.

This restriction is hereby declared to be a covenant running with the land and shall be fully binding upon all persons acquiring the above-described property whether by descent, devise, purchase or otherwise. This restriction benefits and is enforceable by the Wisconsin Department of Natural Resources, its successors or assigns. The Department, its successors or assigns, may initiate proceedings at law or in equity against any person or persons who violate or are proposing to violate this covenant, to prevent the proposed violation or to recover damages for such violation.

Any person who is or becomes owner of the property described above may request that the Wisconsin Department of Natural Resources or its successor issue a determination that one or more of the restrictions set forth in this covenant is no longer required. Upon the receipt of such a request, the Wisconsin Department of Natural Resources shall determine whether or not the restrictions contained herein can be extinguished. If the Department determines that the restrictions can be extinguished, an affidavit, attached to a copy of the Department's written determination, may be recorded to give notice that this deed restriction, or portions of this deed restriction, are no longer binding.

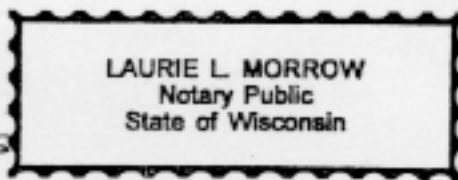
IN WITNESS WHEREOF, the owners of the property have executed this Declaration of Restrictions, this 20<sup>th</sup> day of Aug, 2001.

Signature: *Kilung So*  
Printed Name: Kilung So

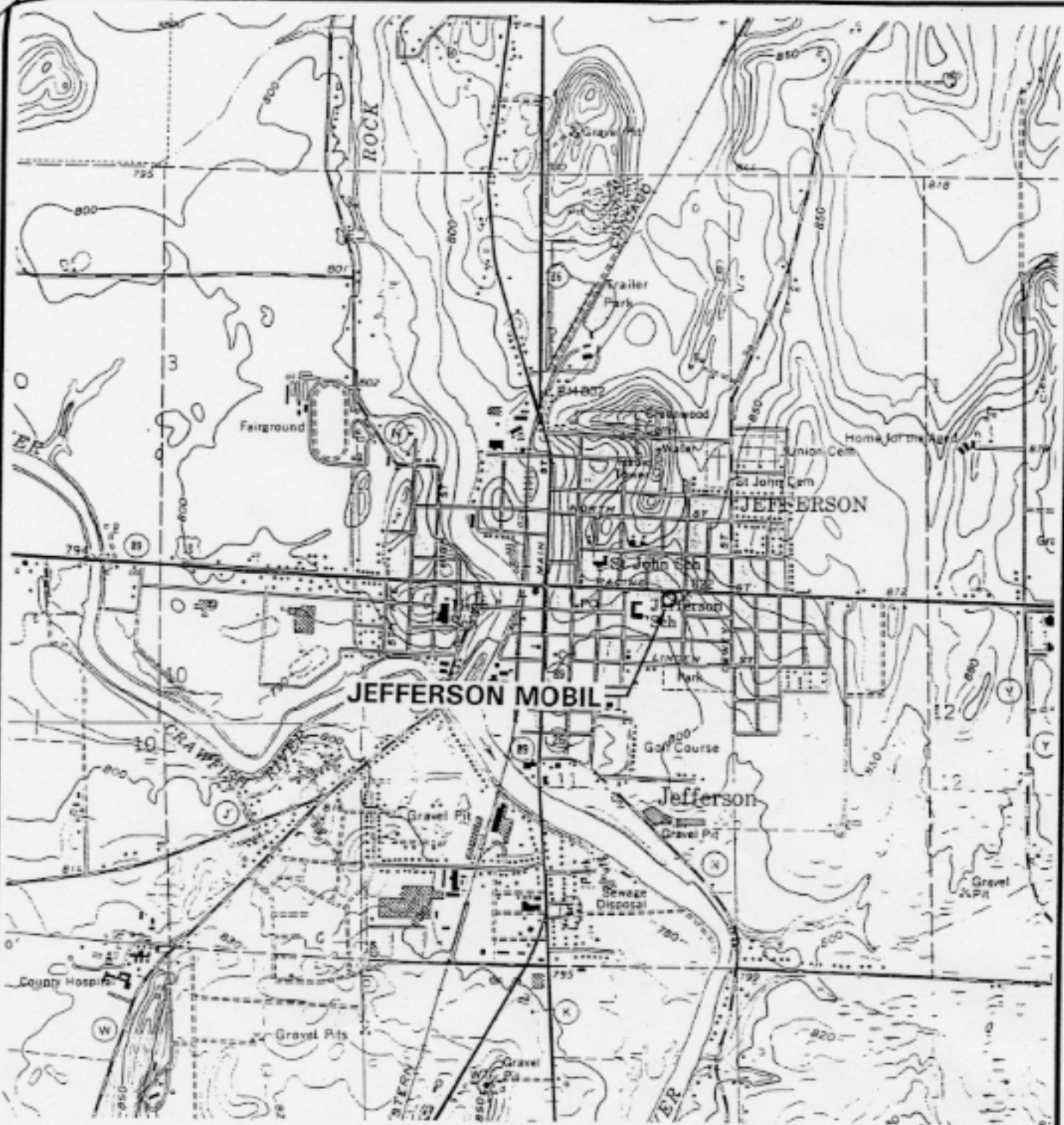
Signature: *Young Chu So*  
Printed Name: Young Chu So

Subscribed and sworn to before me  
this 20<sup>th</sup> day of August, 2001.

*Laurie L. Morrow*  
Notary Public, State of WI  
My commission My Commission Expires 8-29-03



This document was drafted by staff from the Department of Natural Resources and BT2, Inc.



JEFFERSON MOBIL

JEFFERSON, WIS.  
 SE/4 WATERLOO 15' QUADRANGLE  
 N 4300—W 8845/7.5

1959  
 PHOTOREVISED 1971  
 AMS 3270 III SE—SERIES V861



QUADRANGLE LOCATION



USE GRID AND 1971 MAGNETIC NORTH  
 DECLINATION AT CENTER OF SHEET

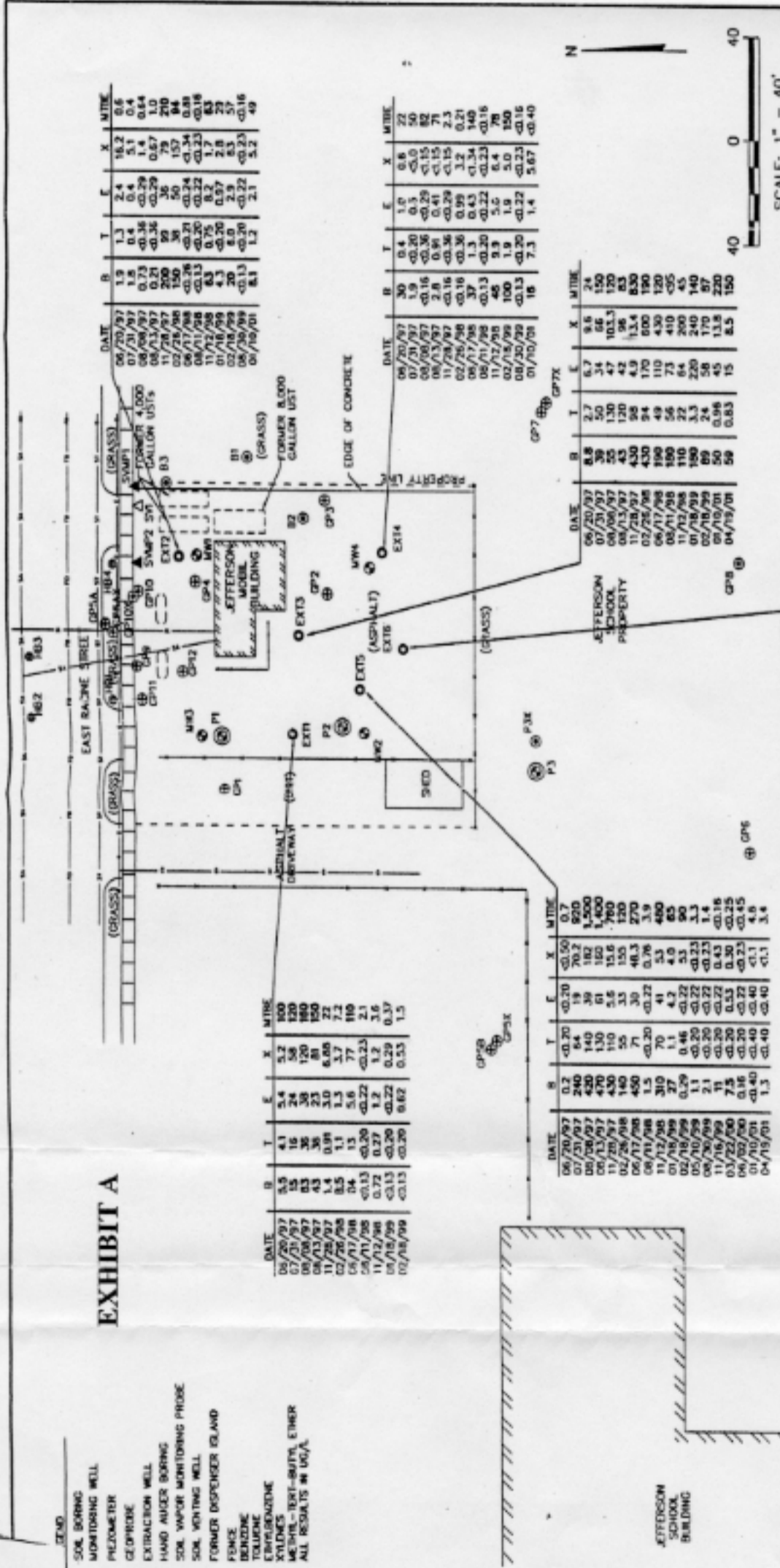
PROJECT NO. 438
DRAWN BY: KP
CHECKED BY: DM
DRAWN: 02/06/96
SCALE: 1" = 2000'

FIGURE 1  
 SITE LOCATION MAP  
 JEFFERSON MOBIL  
 352 EAST RACINE STREET  
 JEFFERSON, WISCONSIN



EXHIBIT A

- ⊙ SOIL BORING
- ⊙ MONITORING WELL
- ⊙ PNEUMETER
- ⊙ GEOPROBE
- ⊙ EXTRACTION WELL
- ⊙ HAND AUGER BORING
- ⊙ SOIL VAPOR MONITORING PROBE
- ⊙ SOIL MONITORING WELL
- ⊙ FORMER DISPENSER ISLAND
- FENCE
- TOLUENE
- CHLOROBENZENE
- XYLENES
- METHANS - TEST-BUFFY ETHER
- MIBE ALL RESULTS IN UG/L



DATE	B	T	E	X	MIBE
05/20/97	4.5	4.1	3.4	5.2	100
07/31/97	1.6	1.6	3.4	5.4	120
08/08/97	4.3	3.8	3.8	120	160
11/28/97	4.3	3.8	2.5	81	150
02/26/98	8.5	1.4	0.81	3.0	6.00
04/17/98	0.4	1.5	1.5	5.7	7.2
05/11/98	0.13	0.20	0.22	0.23	2.1
11/12/98	0.72	0.27	1.2	1.2	3.6
01/18/99	0.13	0.20	0.22	0.23	1.37
02/18/99	0.13	0.20	0.62	0.33	1.5

DATE	B	T	E	X	MIBE
06/20/97	0.2	0.20	0.20	0.50	0.7
07/31/97	19	64	19	70.2	920
08/28/97	420	140	39	182	1,500
09/13/97	470	130	61	160	1,760
11/28/97	5.6	11.0	5.6	15.6	120
02/26/98	140	55	3.5	15.5	120
04/17/98	450	71	3.0	48.3	270
06/17/98	1.5	0.20	0.22	0.76	3.9
11/12/98	310	70	4.1	5.3	480
01/18/99	27	1.1	4.2	4.0	85
02/18/99	0.29	0.46	0.22	0.33	3.3
05/10/99	1.1	0.20	0.22	0.23	1.4
08/30/99	11	0.20	0.22	0.43	0.16
11/18/99	7.5	0.20	0.53	0.30	0.25
03/22/00	0.16	0.20	0.22	0.23	0.45
06/02/00	0.40	0.20	0.22	0.23	0.45
01/10/01	1.5	0.40	0.40	0.40	3.4
04/19/01	1.5	0.40	0.40	0.40	3.4

DATE	B	T	E	X	MIBE
06/20/97	0.20	0.20	0.3	1.2	11
07/31/97	0.3	0.20	0.2	0.5	120
08/08/97	150	9.8	6.5	16.4	180
08/13/97	140	6.0	4.2	9.9	180
11/28/97	420	5.5	0.72	2.83	140
02/26/98	160	25	27	82	140
04/17/98	0.15	0.20	0.22	0.23	4.9
06/17/98	58	0.76	0.60	0.85	58
11/12/98	8.1	0.20	0.22	0.23	46
01/18/99	4.5	0.75	0.80	2.3	59

DATE	B	T	E	X	MIBE
06/20/97	8.8	2.7	6.7	9.6	24
07/31/97	39	50	50	66	150
08/08/97	25	47	103.5	83	120
08/13/97	43	120	42	96	83
11/28/97	430	98	4.9	13.4	830
02/26/98	430	94	170	000	190
04/17/98	190	49	110	430	120
06/17/98	190	56	73	410	35
11/12/98	190	3.3	220	240	140
01/18/99	89	24	58	170	97
02/18/99	59	0.96	45	13.8	220
04/19/01	59	0.83	15	8.5	150

DATE	B	T	E	X	MIBE
06/20/97	30	0.4	1.0	0.6	22
07/31/97	0.16	0.20	0.20	0.15	40
08/08/97	2.8	0.36	0.29	0.15	82
11/28/97	0.16	0.36	0.29	0.15	7.1
02/26/98	0.16	0.36	0.29	0.15	7.1
04/17/98	37	1.3	0.29	0.43	149
06/17/98	46	1.3	0.22	0.23	0.16
11/12/98	100	1.1	1.3	0.4	76
01/18/99	0.13	0.20	0.22	0.15	150
02/18/99	16	7.3	1.4	0.22	0.16
04/19/01	16	7.3	1.4	0.22	0.16

DATE	B	T	E	X	MIBE
06/20/97	1.9	1.3	2.4	16.2	0.6
07/31/97	1.5	0.4	0.4	5.1	0.4
08/08/97	0.73	0.36	0.29	1.4	0.64
08/13/97	200	99	36	79	210
11/28/97	150	30	50	137	84
02/26/98	0.20	0.20	0.20	0.20	0.16
04/17/98	4.3	0.75	0.82	1.7	0.31
06/17/98	4.3	0.75	0.82	1.7	0.31
11/12/98	4.3	0.75	0.82	1.7	0.31
01/18/99	4.3	0.75	0.82	1.7	0.31
02/18/99	20	8.0	2.9	8.3	57
04/19/01	8.1	1.2	2.1	5.2	49

FIGURE 7 (2 of 2)  
 SUMMARY OF GROUNDWATER ANALYTICAL RESULTS  
 FROM EXTRACTION WELLS  
 JEFFERSON MOBIL  
 352 EAST RACINE STREET  
 JEFFERSON, WISCONSIN

PROJECT NO. 438  
 DRAWN BY: MP  
 CHECKED BY: BR  
 DRAWN: 02/05/94  
 REWISD: 05/04/01  
 J. A. B. VOL 15.0MG

SCALE: 1" = 40'

P4



DATE: July 2, 2001

FILE REF: 03-28-001338

TO: Patrick McCutcheon, Steve Ales and Tom Stunkard

FROM: WJ Wojner

SUBJECT: Jefferson Ice Pump, 352 East Racine Street, Jefferson

In May 1991 two 4,000 gallon unleaded gasoline and one 8,000-gallon gasoline UST's were removed and contamination found. At the time about 100 cubic yards of contaminated soil was removed and landfilled. From March 1993 to March 1996 a series of soil borings, Geoprobe and monitoring wells/piezometers were installed. Twenty-five soil samples were obtained from 18 soil borings. There were 22 groundwater-sampling locations, which includes the monitoring wells, Geoprobe, piezometers and extraction wells.

In July 1997 the soil and groundwater remediation system was started and operated through February 1999. There were six combination soil vapor and groundwater extraction wells. The groundwater system removed about 4.5 million gallons of water with 15 pounds of GRO. The soil vent system removed about 41 pounds of GRO. Free product socks have removed some product at times with the most recent free product observed in EXT 2 in April 2001 at .05 feet.

There have been 7 rounds of groundwater samplings since the system was shut down. Two rounds of samples have included Natural Attenuation parameters.

The soils are a few feet of fill followed by silt and sandy silt followed by silty sand with some sandy clay and clayey silt following. Groundwater is at 9-12 feet and flow is to the south or southwest.

They estimate that there are 395 cubic yards of soil with contamination values greater than NR 720 left at the site. There are still ES exceedances in the original source area wells. They are claiming that the contamination will be reduced by Natural Attenuation.

They have some elevated levels of contamination in the soil but the soil removal effort greatly reduced the contaminant mass and there is not much that can be done to take out what is left. The groundwater contamination seems to be stable and the source area near MW-1 is still high and fluctuates. The downgradient extraction wells show levels slightly greater than the ES but the piezometers near them are OK.

I feel that the site could close with a Groundwater Use Restriction.

CLOSE With a Groundwater Use Restriction? 

Patrick McCutcheon

Date

7/3/01

Tom Stunkard

Date

7/3/01

Steve Ales

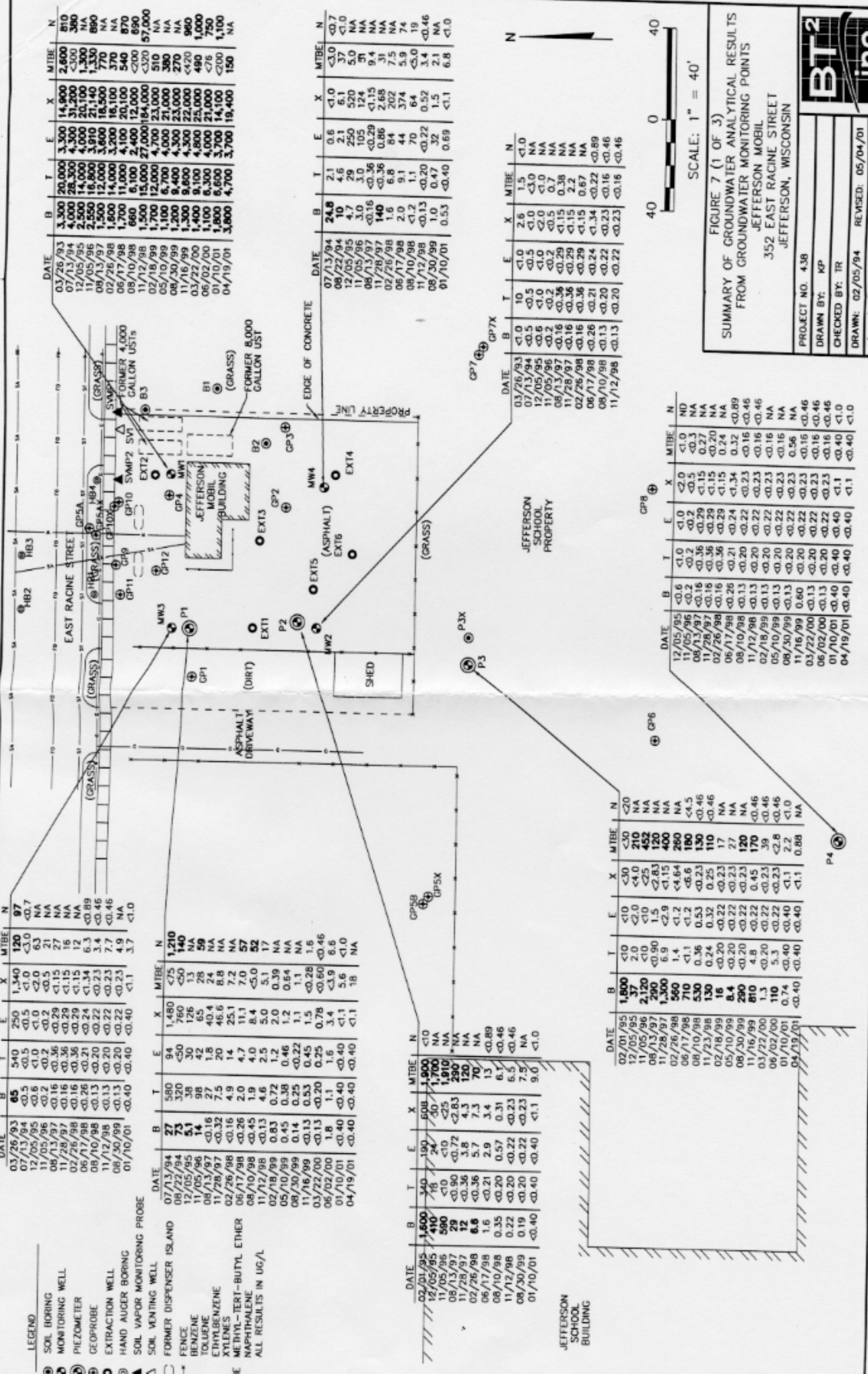
Date

7/3/01



LEGEND

- ⊙ SOIL BORING
- ⊙ MONITORING WELL
- ⊙ PIEZOMETER
- ⊙ GEOPROBE
- ⊙ EXTRACTION WELL
- ⊙ HAND AUGER BORING
- ⊙ SOIL VAPOR MONITORING PROBE
- ⊙ SOIL VENTING WELL
- FORMER DISPENSER ISLAND
- FENCE
- B BENZENE
- T TOLUENE
- E ETHYLBENZENE
- X XYLENES
- MTBE METHYL-TERT-BUTYL ETHER
- N NAPHTHALENE
- ALL RESULTS IN UG/L



DATE	B	T	E	X	MTBE	N
03/26/93	65	540	250	1,340	120	97
07/13/94	<0.5	<0.5	<1.0	<2.0	<3.0	<0.7
12/05/95	<0.6	<1.0	<1.0	<0.5	63	NA
11/05/96	<0.2	<0.2	<0.2	<0.5	21	NA
08/13/97	<0.16	<0.36	<0.29	<1.15	27	NA
11/28/97	<0.16	<0.36	<0.29	<1.15	16	NA
02/26/98	<0.26	<0.20	<0.22	<1.34	6.3	<0.89
06/17/98	<0.13	<0.20	<0.22	<0.23	3.4	<0.46
11/12/98	<0.13	<0.20	<0.22	<0.23	7.7	NA
08/30/99	<0.13	<0.20	<0.22	<0.23	4.9	NA
01/10/01	<0.40	<0.40	<0.40	<1.1	3.7	<1.0

DATE	B	T	E	X	MTBE	N
07/13/94	27	580	94	1,480	<75	1,210
08/22/94	73	320	<50	760	<50	140
12/05/95	5.1	38	30	126	13	NA
11/05/96	14	98	42	65	28	59
08/13/97	<0.16	27	1.8	40.4	24	NA
11/28/97	<0.32	7.5	20	46.6	8.8	NA
02/26/98	<0.16	4.9	14	25.1	7.2	NA
06/17/98	<0.26	2.0	4.7	11.1	7.0	52
08/10/98	<0.45	1.9	4.0	8.4	<5.0	17
11/12/98	<0.13	4.6	2.5	5.0	5.1	NA
02/18/99	0.83	0.72	1.2	2.0	0.39	NA
05/10/99	0.45	0.38	0.46	1.2	0.54	NA
08/30/99	0.14	0.25	<0.22	1.1	1.1	NA
11/16/99	<0.13	0.53	0.45	1.5	<0.28	1.6
03/22/00	<0.13	<0.20	0.25	0.78	<0.60	<0.46
06/02/00	1.8	1.1	1.6	3.4	<3.9	6.6
01/10/01	<0.40	<0.40	<0.40	<1.1	5.6	<1.0
04/19/01	<0.40	<0.40	<0.40	<1.1	18	NA

DATE	B	T	E	X	MTBE	N
02/01/95	1,600	340	190	608	<10	<10
12/05/95	410	24	24	30	1,900	NA
11/05/96	590	<10	<10	<25	1,700	NA
08/13/97	29	<0.90	<0.72	<2.83	290	NA
11/28/97	12	<0.36	3.8	4.3	120	NA
02/26/98	6.6	<0.36	5.7	7.3	70	NA
06/17/98	1.6	<0.21	2.9	3.4	1.3	<0.89
08/10/98	0.35	<0.20	0.57	0.31	6.1	<0.46
11/12/98	0.22	<0.20	<0.22	<0.23	6.5	<0.46
08/30/99	0.19	<0.20	<0.22	<0.23	7.5	NA
01/10/01	<0.40	<0.40	<0.40	<1.1	9.0	<1.0

DATE	B	T	E	X	MTBE	N
03/26/93	3,300	20,000	3,300	14,900	2,600	810
07/13/94	4,000	28,300	4,300	31,200	<300	380
12/05/95	2,500	14,000	4,000	20,100	1,300	NA
11/05/96	2,550	18,800	3,910	21,140	1,350	890
08/13/97	1,500	12,000	3,800	18,500	770	NA
02/26/98	1,600	14,000	3,200	16,100	370	NA
06/17/98	1,700	11,000	4,100	20,100	540	870
08/10/98	660	6,100	2,400	12,000	<200	890
11/12/98	1,500	15,000	27,000	184,000	<320	57,000
02/18/99	1,700	12,000	4,700	23,000	510	NA
05/10/99	1,100	6,700	4,000	21,000	380	NA
08/30/99	1,200	9,400	4,300	23,000	270	NA
11/16/99	1,300	9,800	4,300	22,000	<420	960
03/22/00	1,400	9,100	4,800	25,000	490	1,000
06/02/00	1,100	6,300	4,000	21,000	<76	750
01/10/01	1,800	6,600	3,700	14,100	<200	1,100
04/19/01	3,800	4,700	3,700	19,400	150	NA

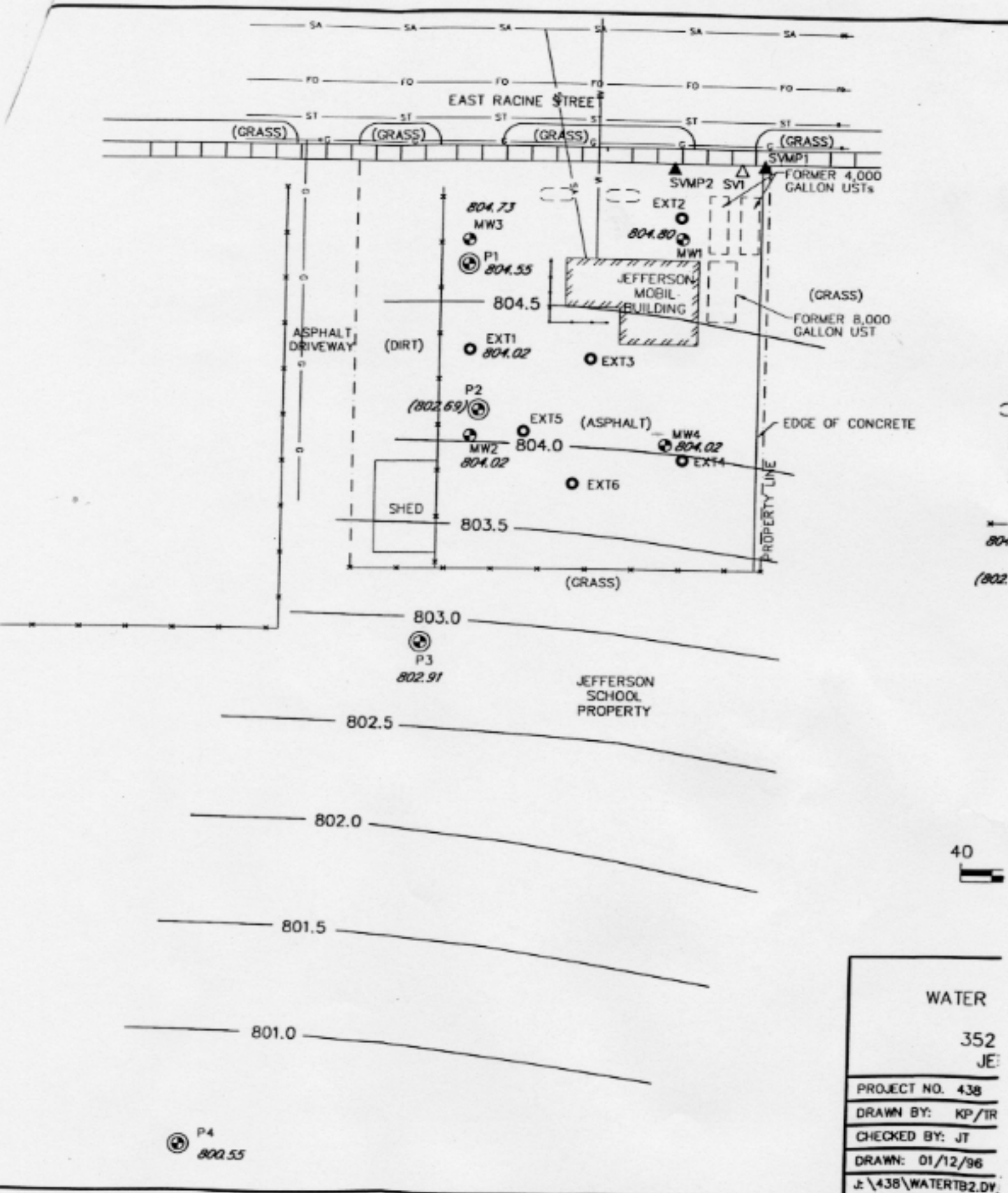
DATE	B	T	E	X	MTBE	N
02/01/95	1,600	340	190	608	<10	<10
12/05/95	410	24	24	30	1,900	NA
11/05/96	590	<10	<10	<25	1,700	NA
08/13/97	29	<0.90	<0.72	<2.83	290	NA
11/28/97	12	<0.36	3.8	4.3	120	NA
02/26/98	6.6	<0.36	5.7	7.3	70	NA
06/17/98	1.6	<0.21	2.9	3.4	1.3	<0.89
08/10/98	0.35	<0.20	0.57	0.31	6.1	<0.46
11/12/98	0.22	<0.20	<0.22	<0.23	6.5	<0.46
08/30/99	0.19	<0.20	<0.22	<0.23	7.5	NA
01/10/01	<0.40	<0.40	<0.40	<1.1	9.0	<1.0

DATE	B	T	E	X	MTBE	N
12/05/95	NA	NA	NA	NA	<1.0	ND
11/05/96	<0.2	<0.2	<0.2	<0.5	<0.3	NA
08/13/97	<0.16	<0.36	<0.29	<1.15	0.27	NA
11/28/97	<0.16	<0.36	<0.29	<1.15	0.20	NA
02/26/98	<0.16	<0.36	<0.29	<1.15	0.24	NA
06/17/98	<0.26	<0.21	<0.24	<1.34	0.32	<0.89
08/10/98	<0.13	<0.20	<0.22	<0.23	<0.16	<0.46
11/12/98	<0.13	<0.20	<0.22	<0.23	<0.16	<0.46
05/10/99	<0.13	<0.20	<0.22	<0.23	<0.16	NA
08/30/99	<0.13	<0.20	<0.22	<0.23	<0.16	NA
11/16/99	0.60	<0.20	<0.22	<0.23	0.56	NA
03/22/00	<0.13	<0.20	<0.22	<0.23	<0.16	<0.46
06/02/00	<0.13	<0.20	<0.22	<0.23	<0.16	<0.46
01/10/01	<0.40	<0.40	<0.40	<1.1	<0.40	<1.0
04/19/01	<0.40	<0.40	<0.40	<1.1	<0.40	<1.0

FIGURE 7 (1 OF 3)  
SUMMARY OF GROUNDWATER ANALYTICAL RESULTS  
FROM GROUNDWATER MONITORING POINTS  
JEFFERSON MOBIL  
352 EAST RACINE STREET  
JEFFERSON, WISCONSIN

PROJECT NO. 438  
DRAWN BY: KP  
CHECKED BY: TR  
DATE: 02/05/94  
REVISED: 05/04/01

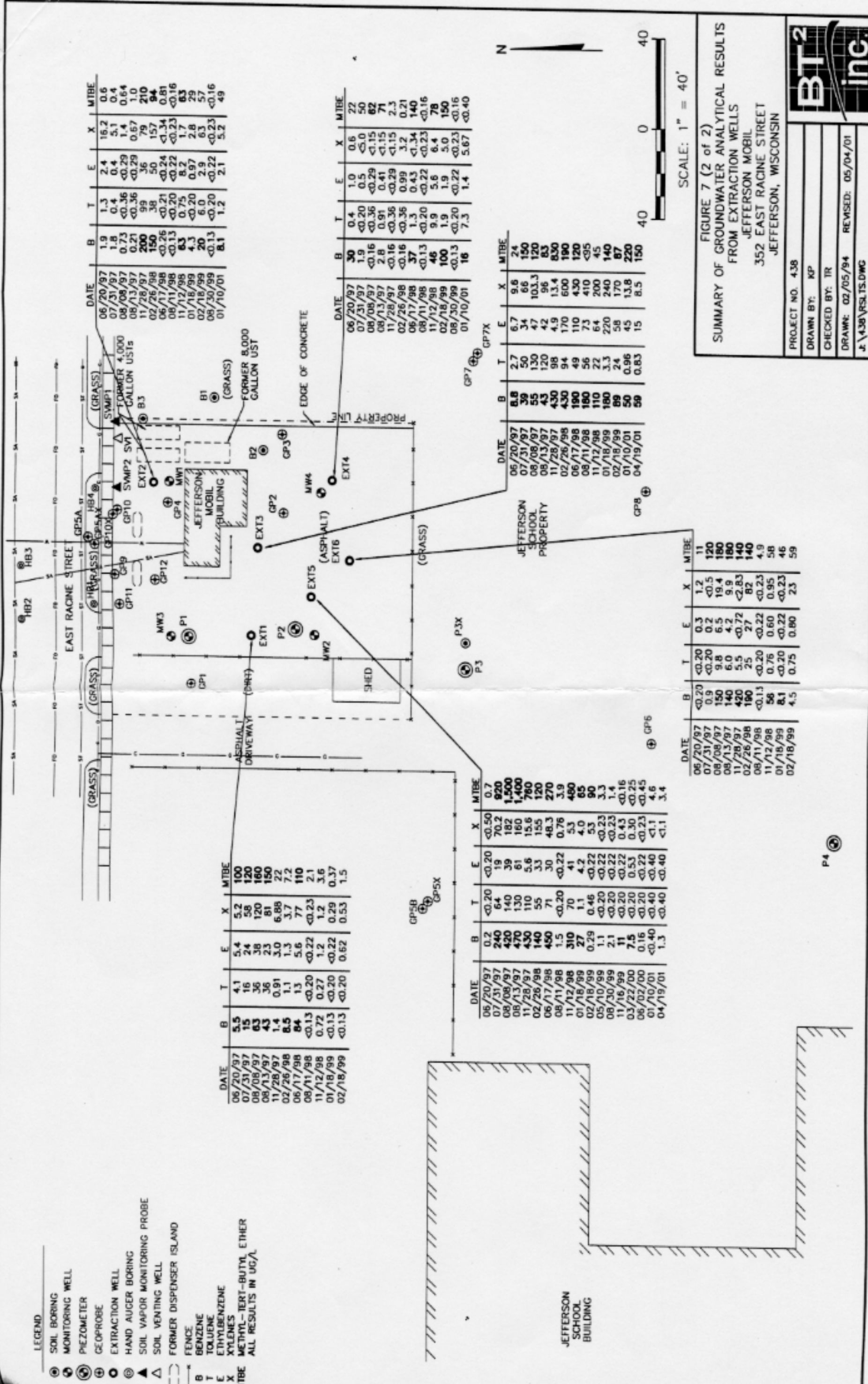
**BT<sup>2</sup>**  
**inc.**



WATER	
352	
JE	
PROJECT NO. 438	
DRAWN BY: KP/TR	
CHECKED BY: JT	
DRAWN: 01/12/96	
J:\438\WATERTB2.DV	

LEGEND

- ⊙ SOIL BORING
- ⊕ MONITORING WELL
- ⊖ PEZOMETER
- ⊕ GEOPROBE
- ⊕ EXTRACTION WELL
- ⊕ HAND AUGER BORING
- ⊕ SOIL VAPOR MONITORING PROBE
- ⊕ SOIL VENTING WELL
- ⊕ FORMER DISPENSER ISLAND
- FENCE
- BENZENE
- TOLUENE
- ETHYLBENZENE
- XYLENES
- METHYL-TERT-BUTYL ETHER
- ALL RESULTS IN UG/L



DATE	B	T	E	X	MTBE
06/20/97	5.5	4.1	5.4	5.2	100
07/31/97	15	16	24	58	120
08/08/97	63	36	38	120	160
08/13/97	43	36	23	81	150
11/28/97	1.4	0.91	3.0	6.88	22
02/26/98	8.5	1.1	1.3	3.7	7.2
06/17/98	84	13	5.6	77	110
08/11/98	<0.13	<0.20	<0.22	<0.23	2.1
11/12/98	0.72	0.27	1.2	1.2	3.6
01/18/99	<0.13	<0.20	<0.22	0.29	0.37
02/18/99	<0.13	<0.20	0.62	0.53	1.5

DATE	B	T	E	X	MTBE
06/20/97	0.2	<0.20	<0.20	<0.50	0.7
07/31/97	19	64	19	70.2	920
08/08/97	420	140	39	182	1,500
08/13/97	470	130	81	160	1,400
11/28/97	430	110	5.6	15.6	760
02/26/98	140	55	3.3	15.5	120
06/17/98	450	71	30	48.3	270
08/11/98	1.5	<0.20	<0.22	0.76	3.9
11/12/98	310	70	41	53	480
01/18/99	27	1.1	4.2	4.0	65
02/18/99	0.29	0.46	<0.22	5.3	90
05/10/99	1.1	<0.20	<0.22	<0.23	3.3
08/30/99	2.1	<0.20	<0.22	<0.23	1.4
11/16/99	11	<0.20	<0.22	0.43	<0.16
03/22/00	7.5	<0.20	0.53	0.30	<0.25
06/02/00	0.16	<0.20	<0.22	<0.23	<0.45
01/10/01	<0.40	<0.40	<0.40	<1.1	4.6
04/19/01	1.3	<0.40	<0.40	<1.1	3.4

DATE	B	T	E	X	MTBE
06/20/97	<0.20	<0.20	0.3	1.2	11
07/31/97	0.9	<0.20	0.2	<0.5	120
08/08/97	150	9.8	6.5	19.4	180
08/13/97	140	6.0	4.2	9.9	180
11/28/97	420	5.5	<0.72	<2.83	140
02/26/98	190	25	27	82	140
08/11/98	<0.13	<0.20	<0.22	<0.23	4.9
11/12/98	58	0.76	0.60	0.95	58
01/18/99	81	<0.20	<0.22	<0.23	46
02/18/99	4.5	0.75	0.80	2.3	59

DATE	B	T	E	X	MTBE
06/20/97	30	0.4	1.0	0.6	22
07/31/97	1.9	<0.20	0.5	<0.5	50
08/08/97	<0.16	<0.36	<0.29	<1.15	62
08/13/97	2.8	0.91	0.41	<1.15	71
11/28/97	<0.16	<0.36	<0.29	<1.15	2.3
02/26/98	<0.16	<0.36	0.99	3.2	0.21
06/17/98	37	1.3	0.43	<1.34	140
08/11/98	<0.13	<0.20	<0.22	<0.23	<0.16
11/12/98	46	9.9	5.6	6.4	78
02/18/99	100	1.9	1.9	5.0	150
08/30/99	<0.13	<0.20	<0.22	<0.23	<0.16
01/10/01	16	7.3	1.4	5.67	<0.40

DATE	B	T	E	X	MTBE
06/20/97	8.8	2.7	6.7	9.6	24
07/31/97	39	50	34	66	150
08/08/97	55	130	47	103.3	120
08/13/97	43	120	42	96	83
11/28/97	430	98	4.9	13.4	830
02/26/98	430	94	170	600	190
06/17/98	190	49	110	430	120
08/11/98	180	56	73	410	<95
11/12/98	110	22	64	200	45
01/18/99	180	3.3	220	240	140
02/18/99	89	24	58	170	87
01/10/01	50	0.96	45	13.8	220
04/19/01	59	0.83	15	8.5	150

SCALE: 1" = 40'

FIGURE 7 (2 of 2)  
 SUMMARY OF GROUNDWATER ANALYTICAL RESULTS  
 FROM EXTRACTION WELLS  
 JEFFERSON MOBIL  
 352 EAST RACINE STREET  
 JEFFERSON, WISCONSIN

**BT<sup>2</sup>**  
**inc.**

PROJECT NO. 438  
 DRAWN BY: KP  
 CHECKED BY: TR  
 DRAWN: 02/05/94 REMSED: 05/04/01  
 J:\438\RSULTS.DWG

**Table 2**  
**Groundwater Analytical Results Summary**  
**Jefferson Mobil / Project #438**  
 (Results are in µg/l)

Sample Location	Date	Lab Notes	GRO	B	T	E	X	1,2,4-TMB	1,3,5-TMB	N	MTBE	Dissolved Lead	Other VOCs
MW1	3/26/93	(1)	76,000	3,300	20,000	3,300	14,900	2,600	830	810	2,600	1	Diisopropyl ether 110 n-Butylbenzene 300 Isopropylbenzene 200 n-Propylbenzene 410
	3/26/93 Dup	(1)	79,000	3,300	20,000	3,500	14,700	2,100	690	490	3,100	NA	n-Butylbenzene 250 Isopropylbenzene 170 p-Isopropyltoluene 340 n-Propylbenzene 340
	7/13/94	--	74,000	4,000	28,300	4,300	31,200	3,100	1,000	380	<300	11	Methylene Chloride 660 p-Isopropyltoluene 230 n-Butylbenzene 210 Isopropylbenzene 110
	7/13/94 Dup	--	77,000	3,300	23,800	4,500	27,000	3,300	390	360	<30	10	n-Butylbenzene 110 1,2-Dichloroethane 12 Isopropylbenzene 81 p-Isopropyltoluene 14 Methylene Chloride 41 n-Propylbenzene 180
	12/5/95	--	NA	2,500	14,000	4,000	20,100	3,000	790	NA	1,300	NA	NA
	11/5/96	(2)	NA	2,550	16,800	3,910	21,140	2,920	937	890	1,330	NA	NA
	8/13/97	--	NA	1,500	12,000	3,600	18,500	3,000	760	NA	770	NA	NA
	2/26/98	--	NA	1,600	14,000	3,200	16,100	2,700	720	NA	370	NA	NA
	6/17/98	--	NA	1,700	11,000	4,100	20,100	3,000	780	870	540	NA	NA
	8/10/98	(3)	NA	660	6,100	2,400	12,000	2,000	470	690	<200	NA	NA
	11/12/98	(4)	NA	1,500	15,000	27,000	184,000	251,000	69,000	57,000	<320	NA	NA
	2/18/99	(4)	75,000	1,700	12,000	4,700	23,000	4,100	740	NA	510	NA	NA
	2/18/99 Dup	(4)	134,000	1,700	13,000	5,500	30,000	8,400	1,600	NA	540	NA	NA
	5/10/99	--	57,000	1,100	6,700	4,000	21,000	4,100	1,000	NA	380	NA	NA



Table 2 (Continued)  
Groundwater Analytical Results Summary

Sample Location	Date	Lab. Notes	GRO	B	T	E	X	1,2,4-TMB	1,3,5-TMB	N	MTBE	Dissolved Lead	Other VOCs
MW2 (cont.)	8/10/98	--	NA	<0.13	<0.20	<0.22	<0.23	<0.22	<0.29	<0.46	<0.16	NA	NA
	11/12/98	--	NA	<0.13	<0.20	<0.22	<0.23	<0.22	<0.29	<0.46	<0.16	NA	NA
MW3	3/26/93	(1)	8,400	65	540	250	1,340	350	140	97	120	<1	Diisopropyl ether n-Butylbenzene tert-Butylbenzene Isopropylbenzene 29 73 130 49
	7/13/94	--	<100	<0.5	<0.5	<0.5	<1.0	<0.9	<0.5	<0.7	<3.0	<2	ND
	12/5/95	--	NA	<0.6	<1.0	<1.0	<2.0	<1.0	<1.0	NA	63	NA	NA
	11/5/96	--	NA	<0.2	<0.2	<0.2	<0.5	<0.4	<0.3	NA	21	NA	NA
	8/13/97	--	NA	<0.16	<0.36	<0.29	<1.15	<0.30	<0.34	NA	27	NA	NA
	11/28/97	--	NA	<0.16	<0.36	<0.29	<1.15	<0.30	<0.34	NA	16	NA	NA
	2/26/98	--	NA	<0.16	<0.36	<0.29	<1.15	<0.30	<0.34	NA	12	NA	NA
	6/17/98	(9)	NA	<0.26	<0.21	<0.24	<1.34	<0.86	<0.54	<0.89	6.3	NA	NA
	8/10/98	--	NA	<0.13	<0.20	<0.22	<0.23	<0.22	<0.29	<0.46	3.4	NA	NA
	11/12/98	--	NA	<0.13	<0.20	<0.22	<0.23	<0.22	<0.29	<0.46	7.7	NA	NA
MW4	8/30/99	--	<50	<0.13	<0.20	<0.22	<0.23	<0.22	<0.29	NA	4.9	NA	NA
	1/10/01	--	NA	<0.40	<0.40	<0.40	<1.1	<0.40	<0.40	<1.0	3.7	NA	NA
	7/13/94	--	<100	24.8	2.1	0.6	<1.0	1.5	<0.5	<0.7	<3.0	<2	Methylene Chloride 4.2 1,2-Dichloroethane 4.8
	8/22/94	(1)	<100	10	4.6	2.1	6.1	3.3	<1.0	<1.0	37	<1	Diisopropyl ether 1.2 1,2-Dichloroethane 3.3
	12/5/95	--	NA	4.7	29	250	520	150	21	NA	5.0	NA	NA
	12/5/95 Dup	--	NA	4.6	29	250	510	150	21	NA	5.0	NA	NA
	11/5/96	(10)	NA	3.0	3.0	105	124	73	6.4	NA	51	NA	NA
	8/13/97	--	NA	<0.16	<0.36	<0.29	<1.15	<0.30	<0.34	NA	9.4	NA	NA

Table 2 (Continued)  
Groundwater Analytical Results Summary

Sample Location	Date	Lab Notes	GRO	B	T	E	X	1,2,4-TMB	1,3,5-TMB	N	MTBE	Dissolved Lead	Other VOCs
MW4 (cont.)	11/28/97	(11)	NA	140	<0.36	0.86	2.68	0.66	0.42	NA	31	NA	NA
	2/26/98	--	NA	1.6	6.8	84	202	33	27	NA	7.5	NA	NA
	6/17/98	--	NA	2.0	9.1	44	374	180	40	74	5.9	NA	NA
	8/10/98	(14)	NA	<1.2	1.1	70	64	39	5.6	19	<5.0	NA	NA
	11/12/98	--	NA	<0.13	<0.20	<0.22	0.52	<0.22	<0.29	<0.46	3.4	NA	NA
	11/12/98 Dup	--	NA	<0.13	0.23	<0.22	0.72	0.29	<0.29	<0.46	3.7	NA	NA
	8/30/99	--	180	1.0	0.47	32	1.5	1.3	<0.29	NA	2.1	NA	NA
	1/10/01	(12)	NA	0.53	<0.40	0.69	<1.1	<0.40	<0.40	<1.1	6.8	NA	NA
	7/13/94	--	3,800	27	580	94	1,480	570	200	1,210	<75	<2	Methylene Chloride 170 n-Butylbenzene 35 Isopropylbenzene 42
	8/22/94	(1)	6,000	73	320	<50	760	300	83	140	<50	6	tert-Butylbenzene 130
	12/5/95	--	NA	5.1	38	30	126	60	43	NA	13	NA	NA
	11/5/96	(13)	NA	14	98	42	65	18	39	24	28	NA	NA
8/13/97	--	NA	<0.16	27	1.8	40.4	4.5	24	NA	24	NA	NA	
11/28/97	(14)	NA	<0.32	7.5	20	46.6	14	51	NA	8.8	NA	NA	
2/26/98	--	NA	<0.16	4.9	14	25.1	8.4	38	NA	7.2	NA	NA	
6/17/98	(14)	NA	<0.26	2.0	4.7	11.1	4.0	20	57	7.0	NA	NA	
6/17/98 Dup	(14)	NA	<0.26	2.1	4.6	11.7	3.9	21	61	7.5	NA	NA	
8/10/98	(15)	NA	<0.45	1.9	4.0	8.4	2.8	16	52	<5.0	NA	NA	
8/10/98 Dup	(15)	NA	<0.40	1.9	3.9	8.4	2.7	15	54	<5.0	NA	NA	
11/12/98	--	NA	<0.13	4.6	2.5	5.0	1.4	7.4	17	5.1	NA	NA	
2/18/99	--	250	0.83	0.72	1.2	2.0	1.1	4.1	NA	0.39	NA	NA	



Table 2 (Continued)  
Groundwater Analytical Results Summary

Sample Location	Date	Lab Notes	GRO	B	T	E	X	1,2,4-TMB	1,3,5-TMB	N	MTBE	Dissolved Lead	Other VOCs
P1 (cont.)	5/10/99	--	100	0.45	0.38	0.46	1.2	0.44	0.69	NA	0.64	NA	NA
	8/30/99	--	<50	0.14	0.25	<0.22	1.1	<0.22	<0.29	NA	1.1	NA	NA
	11/16/99	(40)	NA	<0.13	0.53	0.45	1.5	1.6	<0.29	1.6	<0.28	NA	NA
	3/22/00	(40)	NA	<0.13	<0.20	0.25	0.78	<0.22	<0.29	<0.46	<0.60	NA	NA
	6/2/00	(40)	NA	1.8	1.1	1.6	3.4	0.73	0.52	6.6	<3.9	NA	NA
	1/10/01	--	NA	<0.40	<0.40	<0.40	<1.1	<0.40	<0.40	<1.0	5.6	NA	NA
	4/19/01	(16)	25	<0.40	<0.40	<0.40	<1.1	<0.40	<0.40	NA	18	NA	NA
	2/1/95	(1)	5,000	1,600	340	190	608	<7.5	<5.0	<10	1,900	1	1,2-Dichloroethane 30
	12/5/95	--	NA	410	18	24	30	<10	<10	NA	1,700	NA	NA
	11/5/96	(17)	NA	590	<10	<10	<25	<20	<15	NA	1,910	NA	NA
P2	8/13/97	--	NA	29	<0.90	<0.72	<2.83	<0.75	<0.85	NA	290	NA	NA
	8/13/97	--	NA	120	1.7	2.3	4.15	<0.60	<0.68	NA	340	NA	NA
	11/28/97	--	NA	12	<0.36	3.8	4.3	<0.30	<0.34	NA	120	NA	NA
	2/26/98	--	NA	6.6	<0.36	5.7	7.3	<0.30	<0.34	NA	70	NA	NA
	6/17/98	--	NA	1.6	<0.21	2.9	3.4	<0.86	<0.54	<0.89	13	NA	NA
	8/10/98	--	NA	0.35	<0.20	0.57	0.31	<0.22	<0.29	<0.46	6.1	NA	NA
	11/12/98	--	NA	0.22	<0.20	<0.22	<0.23	<0.22	<0.29	<0.46	6.5	NA	NA
	8/30/99	--	<50	0.19	<0.20	<0.22	<0.23	<0.22	<0.29	NA	7.5	NA	NA
	1/10/01	--	NA	<0.40	<0.40	<0.40	<1.1	<0.40	<0.40	<1.0	9.0	NA	NA
	2/1/95	(18)	2,500	1,800	<10	<10	<30	<15	<10	<20	<30	1	Chloromethane 0.55 1,2-Dichloroethane 59 Methylene Chloride 4.3
P3	12/5/95	--	NA	37	2.0	<2.0	<4.0	<2.0	<2.0	NA	210	NA	NA
	11/5/96	(19)	NA	2,120	<10	<10	<25	<20	<15	NA	452	NA	NA

Table 2 (Continued)  
Groundwater Analytical Results Summary

Sample Location	Date	Lab Notes	GRO	B	T	E	X	1,2,4-TMB	1,3,5-TMB	N	MTBE	Dissolved Lead	Other VOCs
P3 (cont.)	8/13/97	--	NA	290	<0.90	1.5	<2.83	<0.75	<0.85	NA	120	NA	NA
	11/28/97	(20)	NA	1,300	6.9	<2.9	<1.15	<3.0	<3.4	NA	400	NA	NA
	2/26/98	(20)	NA	560	1.4	<1.2	<4.64	<1.2	<1.4	NA	260	NA	NA
	6/17/98	(9)	NA	710	<1.1	<1.2	<6.6	<4.3	<2.7	<4.5	180	NA	NA
	8/10/98	--	NA	530	0.36	0.53	<0.23	<0.22	<0.29	<0.46	130	NA	NA
	11/23/98	--	NA	130	0.24	0.32	0.25	<0.22	<0.29	<0.46	110	NA	NA
	2/18/99	--	<50	16	<0.20	<0.22	<0.23	<0.22	<0.29	NA	17	NA	NA
	5/10/99	--	<50	8.4	<0.20	<0.22	<0.23	<0.22	<0.29	NA	27	NA	NA
	8/30/99	--	400	290	<0.20	<0.22	<0.23	<0.22	<0.29	NA	120	NA	NA
	11/16/99	--	NA	810	4.8	<0.22	0.45	<0.22	<0.29	<0.46	170	NA	NA
	3/22/00	--	NA	1.3	<0.20	<0.22	<0.23	<0.22	<0.29	<0.46	39	NA	NA
	6/2/00	(41)	NA	110	5.3	<0.22	<0.23	<0.22	<0.29	<0.46	<2.8	NA	NA
	1/10/01	(21)	NA	0.74	<0.40	<0.40	<1.1	<0.40	<0.40	<1.0	2.2	NA	NA
	4/19/01	(22)	<14	<0.40	<0.40	<0.40	<1.1	<0.40	<0.40	NA	0.88	NA	NA
P4	12/5/95	--	NA	<0.6	<1.0	<1.0	<2.0	<1.0	<1.0	ND	<1.0	<2.0	ND
	11/5/96	--	NA	<0.2	<0.2	<0.2	<0.5	<0.4	<0.3	NA	<0.3	NA	NA
	11/5/96 Dup	--	NA	<0.2	<0.2	<0.2	<0.5	<0.4	<0.3	NA	<0.3	NA	NA
	8/13/97	--	NA	<0.16	<0.36	<0.29	<1.15	<0.30	<0.34	NA	0.27	NA	NA
	11/28/97	--	NA	<0.16	<0.36	<0.29	<1.15	<0.30	<0.34	NA	<0.20	NA	NA
	2/26/98	(23)	NA	<0.16	<0.36	<0.29	<1.15	<0.30	<0.34	NA	0.24	NA	NA
	6/17/98	(23)	NA	<0.26	<0.21	<0.24	<1.34	<0.86	<0.54	<0.89	0.32	NA	NA
	8/10/98	--	NA	<0.13	<0.20	<0.22	<0.23	<0.22	<0.29	<0.46	<0.16	NA	NA

Table 2 (Continued)  
Groundwater Analytical Results Summary

Sample Location	Date	Lab Notes	GR0	B	F	E	X	1,2,4-TMB	1,3,5-TMB	N	MTBE	Dissolved Lead	Other VOCs
P4 (cont.)	2/18/99	--	<50	<0.13	<0.20	<0.22	<0.23	<0.22	<0.29	NA	<0.16	NA	NA
	5/10/99	--	<50	<0.13	<0.20	<0.22	<0.23	<0.22	<0.29	NA	<0.16	NA	NA
	8/30/99	--	<50	<0.13	<0.20	<0.22	<0.23	<0.22	<0.29	NA	0.56	NA	NA
	11/16/99	--	NA	0.60	<0.20	<0.22	<0.23	<0.22	<0.29	<0.46	<0.16	NA	NA
	3/22/00	--	NA	<0.13	<0.20	<0.22	<0.23	<0.22	<0.29	<0.46	<0.16	NA	NA
	6/2/00	--	NA	<0.13	<0.20	<0.22	<0.23	<0.22	<0.29	<0.46	<0.16	NA	NA
	1/10/01	--	NA	<0.40	<0.40	<0.40	<1.1	<0.40	<0.40	<1.0	<0.40	NA	NA
	4/19/01	--	<14	<0.40	<0.40	<0.40	<1.1	<0.40	<0.40	NA	<0.40	NA	NA
	1/3/94	--	<100	<0.5	<0.5	<0.5	<1.0	<0.9	<0.5	<0.7	<3.0	NA	ND
	1/3/94	--	<100	<0.7	<1.0	<0.9	<2.4	<1.8	<0.9	NA	19.1	NA	NA
GP3 12'	1/3/94	--	110	0.73	<0.5	5.78	0.51	<0.9	<0.5	10.8	15.0	NA	n-Butylbenzene 2.85 tert-Butylbenzene 0.90 Isopropylbenzene 1.30 n-Propylbenzene 3.07
GP4 25'	1/3/94	--	95,700	2,710	21,600	2,880	14,400	3,070	1,350	NA	819	NA	NA
GP5X 16-20'	10/19/95	--	NA	<0.6	1.1	<1.0	<2.0	<1.0	<1.0	NA	<1.0	NA	NA
GP5B 26-30'	10/19/95	--	NA	<0.6	<1.0	<1.0	<2.0	<1.0	<1.0	NA	<1.0	NA	NA
GP6 24-28'	10/19/95	--	NA	<1.5	<2.5	<2.5	<5.0	<2.5	<2.5	NA	300	NA	NA
GP7X 12-16'	10/20/95	--	NA	<0.6	<1.0	<1.0	<2.0	<1.0	<1.0	NA	5.1	NA	NA
GP7 23-27'	10/20/95	--	NA	<0.6	<1.0	<1.0	<2.0	<1.0	<1.0	NA	1.1	NA	NA
GP8 24-28'	10/20/95	--	NA	<0.6	<1.0	<1.0	<2.0	<1.0	<1.0	NA	<1.0	NA	NA
Effluent	6/20/97	(24)	81	6.4	2.0	4.8	8.0	0.5	<0.30	NA	23	NA	NA
	7/31/97	(25)	530	42	40	20	44.2	1.1	0.50	NA	210	NA	NA
	8/8/97	--	NA	70	80	26	74.8	2.5	0.90	NA	250	NA	NA
	6/13/07	--	NA	73	76	77	77.7	2.5	<0.68	NA	250	NA	NA



Table 2 (Continued)  
Groundwater Analytical Results Summary

Sample Location	Date	Lab Notes	GRO	B	T	E	X	1,2,4-TMB	1,3,5-TMB	N	MTBE	Dissolved Lead	Other VOCs
EXT1 (cont.)	8/11/98	--	<50	<0.13	<0.20	<0.22	<0.23	<0.22	<0.29	NA	2.1	NA	NA
	11/12/98	(31)	<50	0.72	0.27	1.2	1.2	2.1	<0.29	NA	3.6	NA	NA
	1/18/99	--	<50	<0.13	<0.20	<0.22	0.29	<0.22	<0.29	NA	0.37	NA	NA
	2/18/99	--	<50	<0.13	<0.20	0.62	0.53	1.3	<0.29	NA	1.5	NA	NA
	6/20/97	(36)	82	1.9	1.3	2.4	16.2	2.0	0.9	NA	0.6	NA	NA
EXT2	7/31/97	(37)	37	1.8	0.4	0.4	5.1	0.6	1.2	NA	0.4	NA	NA
	8/8/97	--	NA	0.73	<0.36	<0.29	1.4	<0.30	0.57	NA	0.64	NA	NA
	8/13/97	--	NA	0.21	<0.36	<0.29	0.67	<0.30	<0.34	NA	1.0	NA	NA
	11/28/97	(38)	820	200	99	36	79	2.0	<0.85	NA	210	NA	NA
	2/26/98	(39)	710	150	38	50	157	3.3	0.53	NA	94	NA	NA
	6/17/98	--	<50	<0.26	<0.21	<0.24	<1.34	<0.86	<0.54	NA	0.81	NA	NA
	8/11/98	--	<50	<0.13	<0.20	<0.22	<0.23	<0.22	<0.29	NA	<0.16	NA	NA
	11/12/98	(31)	130	63	0.75	8.2	1.7	2.0	<0.29	NA	63	NA	NA
	1/18/99	--	<50	4.3	<0.20	0.97	2.8	1.1	<0.29	NA	29	NA	NA
	2/18/99	--	220	20	6.0	2.9	63	3.4	0.52	NA	57	NA	NA
EXT3	8/30/99	--	<50	<0.13	<0.20	<0.22	<0.23	<0.22	<0.29	NA	<0.16	NA	NA
	1/10/01	(40)	NA	8.1	1.2	2.1	5.2	0.80	<0.40	2.6	49	NA	NA
	6/20/97	(24)	100	8.8	2.7	6.7	9.6	0.4	<0.30	NA	24	NA	NA
	7/31/97	(24)	670	39	50	34	66.0	1.0	<0.30	NA	150	NA	NA
	8/8/97	--	NA	55	130	47	103.3	3.1	0.39	NA	120	NA	NA
	8/13/97	--	NA	43	120	42	96.0	3.6	0.41	NA	83	NA	NA
	11/28/97	(41)	1,400	430	98	4.9	13.4	<1.5	<1.7	NA	830	NA	NA
	11/28/97 Dup	(27)	850	160	110	43	109	3.0	0.73	NA	130	NA	NA



Table 2 (Continued)  
Groundwater Analytical Results Summary

Sample Location	Date	Lab Notes	GRO	B	T	E	X	1,2,4-TMB	1,3,5-TMB	N	MTBE	Dissolved Lead	Other VOCs
EXTS (cont.)	11/28/97	(41)	1,400	430	110	5.6	15.6	<1.5	<1.7	NA	760	NA	NA
	2/26/98	(29)	740	140	55	33	155	1.3	<0.34	NA	120	NA	NA
	6/17/98	(26)	1,200	450	71	30	48.3	<3.4	<2.2	NA	270	NA	NA
	8/1/98	--	<50	1.5	<0.20	<0.22	0.76	<0.22	<0.29	NA	3.9	NA	NA
	11/12/98	--	1,200	310	70	41	53	<2.2	<2.9	NA	480	NA	NA
	1/18/99	--	200	27	1.1	4.2	4.0	1.5	<0.58	NA	65	NA	NA
	2/18/99	--	220	0.29	0.46	<0.22	53	4.2	0.99	NA	90	NA	NA
	5/10/99	--	<50	1.1	<0.20	<0.22	<0.23	<0.22	<0.29	NA	3.3	NA	NA
	8/30/99	--	<50	2.1	<0.20	<0.22	<0.23	<0.22	<0.29	NA	1.4	NA	NA
	11/16/99	--	NA	11	<0.20	<0.22	0.43	<0.22	<0.29	<0.46	<0.16	NA	NA
	3/22/00	(42)	NA	7.5	<0.20	0.53	0.30	<0.22	<0.29	<0.46	<0.25	NA	NA
	6/2/00	(42)	NA	0.16	<0.20	<0.22	<0.23	<0.22	<0.29	<0.46	<0.45	NA	NA
	1/10/01	--	NA	<0.40	<0.40	<0.40	<1.1	<0.40	<0.40	<1.0	4.6	NA	NA
	04/19/01	(51)	17	1.3	<0.40	<0.40	<1.1	<0.40	<0.40	NA	3.4	NA	NA
EXT6	6/20/97	(52)	100	<0.20	<0.20	0.3	1.2	<0.40	<0.30	NA	11	NA	NA
	7/31/97	(53)	140	0.9	<0.20	0.2	<0.50	<0.40	<0.30	NA	120	NA	NA
	8/8/97	--	NA	150	9.8	6.5	19.4	<0.30	<0.34	NA	180	NA	NA
	8/13/97	--	NA	140	6.0	4.2	9.9	<0.30	<0.34	NA	180	NA	NA
	11/28/97	(54)	750	420	5.5	<0.72	<2.83	<0.75	<0.85	NA	140	NA	NA
	2/26/98	(29)	670	190	25	27	82	2.9	0.59	NA	140	NA	NA
	8/1/98	--	<50	<0.13	<0.20	<0.22	<0.23	<0.22	<0.29	NA	4.9	NA	NA
	11/12/98	(31)	72	56	0.76	0.60	0.95	<0.22	<0.29	NA	58	NA	NA
	1/18/99	--	<50	8.1	<0.20	<0.22	<0.23	<0.22	<0.29	NA	46	NA	NA

Table 2 (Continued)  
Groundwater Analytical Results Summary

Sample Location	Date	Lab Notes	GRO	B	T	E	X	1,2,4-TMB	1,3,5-TMB	N	MTBE	Dissolved Lead	Other VOCs
EXT6 (cont.)	2/18/99	--	100	4.5	0.75	0.80	23	1.5	0.35	NA	59	NA	NA
Trip Blank	3/26/93	--	<100	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	NA	ND
	1/10/94	--	<100	<0.5	<0.5	<1.0	<1.0	<0.9	<0.5	<0.7	<3.0	NA	ND
	7/13/94	--	<100	<0.5	<0.5	<1.0	<1.0	<0.9	<0.5	<0.7	<3.0	NA	ND
	8/22/94	--	NA	<1.0	<1.0	<2.0	<2.0	<1.0	<1.0	<1.0	9.6	NA	ND
	2/1/95	(55)	NA	<0.10	<0.10	<0.30	<0.30	0.40	<0.10	<0.20	<0.30	NA	Chloromethane 0.59 1,1,1-Trichloroethane 0.53
	10/20/95	--	NA	<0.6	<1.0	<1.0	<2.0	<1.0	<1.0	NA	<1.0	NA	NA
	12/5/95	--	NA	<0.6	<1.0	<1.0	<2.0	<1.0	<1.0	NA	<1.0	NA	NA
	11/5/96	(56)	NA	<0.2	0.4	<0.2	<0.6	<0.7	<0.4	<0.8	<0.2	NA	NA
	6/20/97	--	<30	<0.20	<0.20	<0.20	<0.50	<0.40	<0.30	NA	0.7	NA	NA
	8/13/97	--	NA	<0.16	<0.36	<0.29	<1.15	<0.30	<0.34	NA	<0.20	NA	NA
9/9/97	--	NA	<0.16	<0.36	<0.29	<1.15	<0.30	<0.34	NA	<0.20	NA	NA	
10/9/97	(57)	NA	<0.41	0.94	<0.23	<0.79	<0.30	<0.25	NA	<0.53	NA	NA	
11/10/97	--	NA	<0.41	<0.28	<0.23	<0.79	<0.30	<0.25	NA	<0.53	NA	NA	
11/28/97	--	<50	<0.16	<0.36	<0.29	<1.15	<0.30	<0.34	NA	<0.20	NA	NA	
6/17/98	--	<50	<0.26	<0.21	<0.24	<1.34	<0.86	<0.54	<0.89	<0.22	NA	NA	
7/13/98	--	NA	<0.26	<0.21	<0.24	<1.34	<0.86	<0.54	NA	<0.22	NA	NA	
8/10/98	--	NA	<0.13	<0.20	<0.22	<0.23	<0.22	<0.29	<0.46	<0.16	NA	NA	
9/24/98	--	NA	<0.13	<0.20	<0.22	<0.23	<0.22	<0.29	NA	<0.16	NA	NA	
11/12/98	--	NA	<0.13	<0.20	<0.22	<0.23	<0.22	<0.29	<0.46	<0.16	NA	NA	
9/18/00	--	--	<50	<0.13	<0.20	<0.22	<0.23	<0.22	<0.29	<0.46	<0.16	NA	NA



**Table 2 (Continued)**  
**Groundwater Analytical Results Summary**

Sample Location	Date	Lab Notes	GRO	B	T	E	X	1,2,4-TMB	1,3,5-TMB	N	MTBE	Dissolved Lead	Other VOCs
NR 140 Enforcement Standard			NE	5	before 4/1/00	700	before 4/1/00	480	40	60	15	1,1,1-Trichloroethane 200 1,2-Dichloroethane 5 Methylene Chloride 150	
					343	as of 4/1/00	10,000						
NR 140 Preventive Action Limit			NE	0.5	before 4/1/00	140	before 4/1/00	96	8	12	1.5	1,1,1-Trichloroethane 40 1,2-Dichloroethane 0.5 Methylene Chloride 15	
					68.6	as of 4/1/00	200						

**ABBREVIATIONS**

GRO = Gasoline Range Organics  
X = Total Xylenes  
NA = Not Analyzed

B = Benzene  
TMB = Trimethylbenzene  
ND = Not Detected

T = Toluene  
N = Naphthalene  
NE = No Standard Established

E = Ethylbenzene  
MTBE = Methyl tert butyl ether  
VOCs = Volatile Organic Compounds

**SAMPLING NOTES:**

GP1 through GP4 were groundwater samples obtained at temporary (i.e., Geoprobe) locations. Samples GP1 through GP3 were collected immediately below the water table, and GP4 was obtained approximately 15 feet below the water table. GP5 through GP8 were collected at the depths indicated.

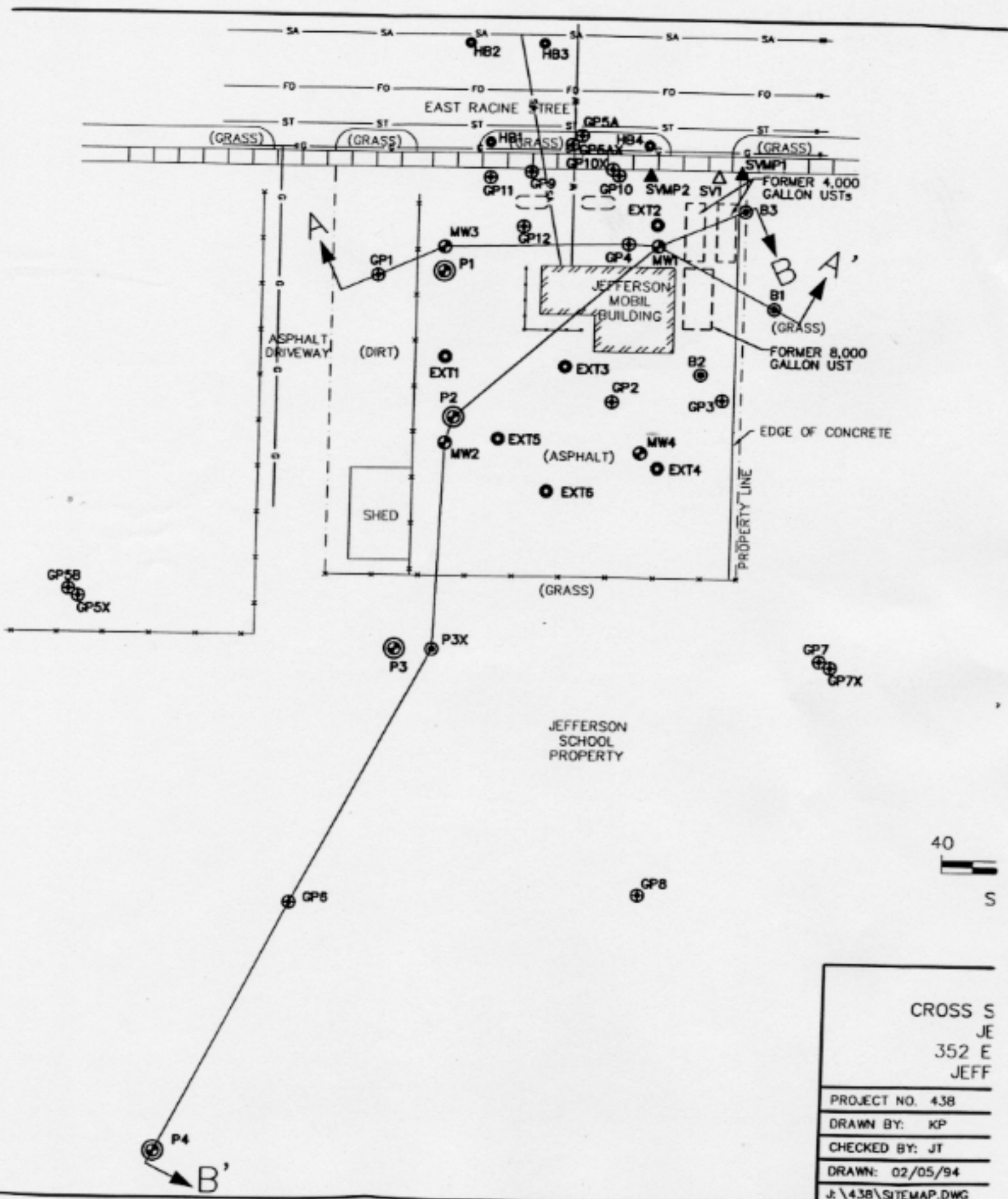
**Table 2 (Continued)**  
**Groundwater Analytical Results Summary**

**LABORATORY NOTES:**

- (1) Sample contains a fraction lighter than GRO.
- (2) 1,3,5-Trimethylbenzene has an estimated value due to compound co-elution. Naphthalene has an estimated value, compound exhibited high bias on calibration and QC samples. Sample pH was 7.0.
- (3) MTBE shows matrix interference. Toluene has an estimated concentration.
- (4) Late eluting hydrocarbons present.
- (5) PVOCs Analysis - Raised Quantitation or Reporting Limit due to limited sample amount or dilution for matrix background interference. Naphthalene Analysis - Analyte averaged calibration criteria within acceptable limits and value is in between LOD and LOQ.
- (6) PVOCs Analysis - Raised Quantitation or Reporting Limit due to limited sample amount or dilution for matrix background interference. Naphthalene Analysis - Analyte averaged calibration criteria within acceptable limits.
- (7) GRO Analysis - Significant peaks were detected outside the chromatographic window. MBTE Analysis - Value is in between LOD and LOQ.
- (8) MTBE has an estimated value, concentration was less than LOQ. Sample pH was 7.0.
- (9) PVOCs Analysis - The previous Quality Control Sample failed Naphthalene high at 118.9%.  
 Also analyzed on 11/12/96.
- (10) Ethylbenzene, 1,2,4-Trimethylbenzene, 1,3,5-Trimethylbenzene and Xylenes have estimated values, concentrations were less than LOQ.
- (11) Benzene and ethylbenzene analyses - Values are in between LOD and LOQ.
- (12) 1,3,5-Trimethylbenzene has an estimated value due to compound co-elution. Naphthalene has an estimated value, compound exhibited high bias on calibration and QC samples. Sample pH was 5.0. Sample analysis contained a surrogate recovery exceeding established quality control limits.
- (13) m&p-Xylenes have estimated values, concentrations were less than LOQ.
- (14) Benzene and Methyl-t-butyl ether show matrix interference.
- (15) GRO Analysis - Value is in between LOD and LOQ.
- (16) MTBE has an estimated value, exceeded criteria for percent difference on calibration check standard (>15%).
- (17) Sample contains a fraction lighter than GRO. Chloromethane has suspected laboratory background contamination.
- (18) MTBE has an estimated value, exceeded criteria for percent difference on calibration check standard (>15%). Elevated reporting limit due to sample dilution, sample contained target analyte(s) exceeding instrument calibration range.
- (19) Toluene has an estimated value, concentration was less than LOQ.
- (20) Benzene Analysis - Value is in between LOD and LOQ.
- (21) MBTE Value is in between LOD and LOQ.
- (22) MTBE has an estimated value, detected at a concentration below LOQ.
- (23) 1,2,4-Trimethylbenzene has an estimated value, concentration was less than LOQ. GRO sample contained fractions lighter than GRO hydrocarbons.
- (24) 1,3,5-Trimethylbenzene and 1,2,4-Trimethylbenzene have estimated values, concentrations were less than LOQ. GRO sample contained fractions lighter than GRO hydrocarbons.
- (25) Sample exhibits hydrocarbon pattern resembling gasoline. Early peaks were present.
- (26) 1,3,5-Trimethylbenzene has an estimated value, detected at concentrations below the LOQ.
- (27) Sample exhibits hydrocarbon pattern resembling gasoline. Early peaks were present outside of window. 1,3,5-Trimethylbenzene has an estimated value, concentrations were less than LOQ.
- (28) GRO Analysis - Sample exhibits hydrocarbon pattern resembling gasoline. Early peaks were present outside of window.
- (29) Sample has a typical gas pattern. 1,3,5-Trimethylbenzene has an estimated value, detected at a concentration below LOQ.
- (30) MTBE has standard outside of control limits.
- (31) GRO shows matrix interference.
- (32) O-Xylene and 1,2,4-Trimethylbenzene have estimated values, concentrations were less than LOQ. GRO sample contained fractions lighter than GRO hydrocarbons. Also analyzed on 6/25/97.
- (33) Sample contained fractions lighter than GRO. Also analyzed on 8/6/97.
- (34) Value reported due to early peaks in window. Low level peaks present in chromatogram. Toluene and 1,3,5-Trimethylbenzene have estimated values, concentrations were below the LOQ.
- (35) MTBE has an estimated value, concentration was less than LOQ. GRO sample contained fractions lighter than GRO hydrocarbons.
- (36) MBTE Ethylbenzene 1,2,4-Trimethylbenzene and GRO have estimated values, concentrations were less than LOQ.

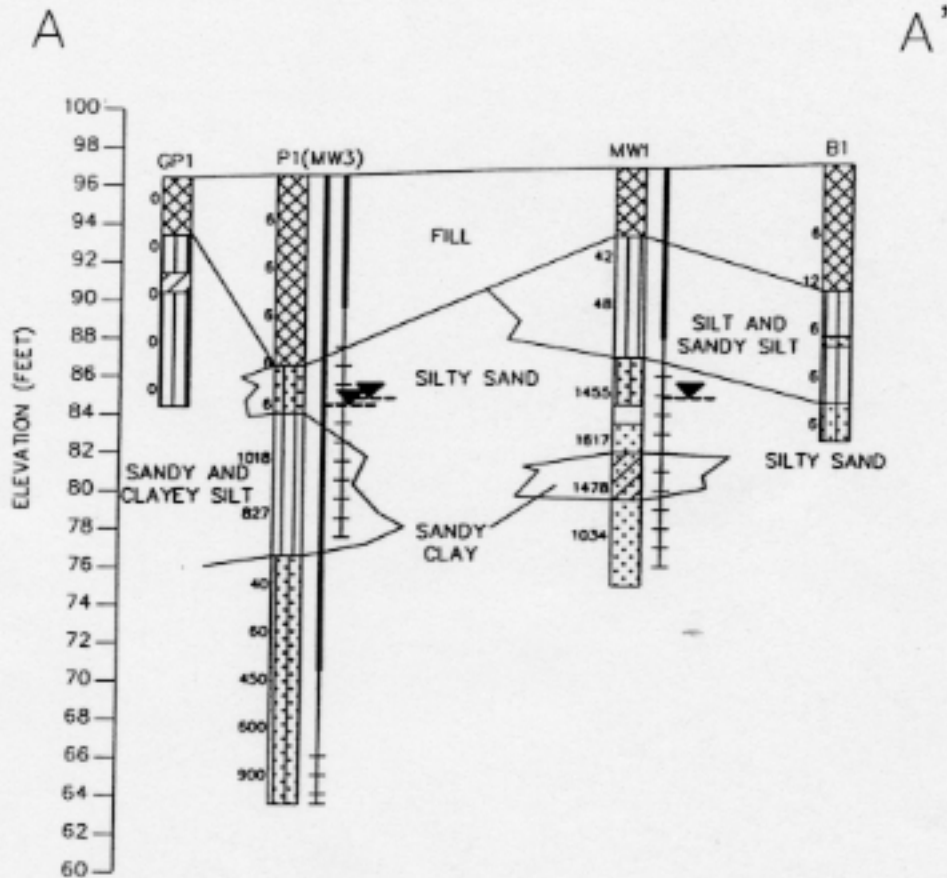
**Table 2 (Continued)**  
**Groundwater Analytical Results Summary**

- (39) GRO Analysis - Sample exhibits hydrocarbon pattern resembling gasoline. Early and late peaks were present outside of window. 1,3,5-Trimethylbenzene has an estimated value, detected at a concentration below LOQ.
- (40) 1,2,4-TMB and naphthalene Analyses - Values are in between LOD and LOQ. M&p-xylenes Analysis - Analyte detected in associated Method Blank. Naphthalene Analysis - Analyte averaged calibration criteria within acceptable limits.
- (41) Value reported due to early peaks in window. Xylenes have estimated values, concentrations were less than LOQ.
- (42) MTBE shows matrix interference.
- (43) Toluene and 1,3,5-TMB Analyses - Values are in between LOD and LOQ. M&p-xylenes Analysis - Analyte detected in associated Method Blank. Naphthalene Analysis - Analyte averaged calibration criteria within acceptable limits.
- (44) GRO Analysis - Significant peaks were detected outside the chromatographic window. Toluene has value in between LOD and LOQ.
- (45) GRO sample contained fractions lighter than GRO hydrocarbons.
- (46) GRO has an estimated value, concentration was less than LOQ.
- (47) MTBE and m&p-Xylenes have estimated values, detected at concentrations below LOQ.
- (48) Reported concentration due to early peaks in window. Ethylbenzene has an estimated value, detected at a concentration below LOQ.
- (49) TMBs, m&p-xylene, and naphthalene Analyses - Values are in between LOD and LOQ. M&p-xylenes Analysis - Analyte detected in associated Method Blank. Naphthalene Analysis - Analyte averaged calibration criteria within acceptable limits.
- (50) MTBE, Benzene, and 1,2,4-Trimethylbenzene have estimated values, concentrations were less than LOQ. Also analyzed on 6/28/97.
- (51) GRO Value is in between LOD and LOQ.
- (52) Ethylbenzene has an estimated value, concentration was less than LOQ. GRO sample contained fractions lighter than GRO hydrocarbons.
- (53) Ethylbenzene has an estimated value, concentration was less than LOQ.
- (54) Value reported due to early peaks in window.
- (55) Chloromethane has suspected laboratory background contamination. 1,2,4-Trimethylbenzene has an estimated value, concentration was less than LOQ.
- (56) Toluene has an estimated value, concentration was less than LOQ.
- (57) Previous standard had a high recovery for MTBE at 117.8%. Value reported is below detect.
- (58) Chloromethane has suspected laboratory background contamination. Trichlorofluoromethane has an estimated value, compound exceeded calibration criteria.



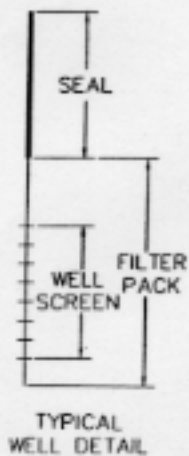
CROSS S  
JE  
352 E  
JEFF

PROJECT NO. 438
DRAWN BY: KP
CHECKED BY: JT
DRAWN: 02/05/94
J:\438\SITEMAP.DWG



**LEGEND**

FILL, VARIOUS COMPOSITION.	SAND, POORLY GRADED LITTLE FINES (SP).
CLAY (CL) OR SILTY CLAY (CL-ML).	SILTY SAND (SM).
SILT, SANDY SILT, OR CLAYEY SILT (ML).	SANDY CLAY (SC).
ORGANIC SILT OR CLAY (OL/OH).	WATER TABLE ELEVATION MEASURED ON 12/20/95
	PHOTOIONIZATION DETECTOR READING



0 40  
 HORIZONTAL SCALE 1" = 40'  
 VERTICAL SCALE 1" = 10'  
 VERTICAL EXAGGERATION = 4X

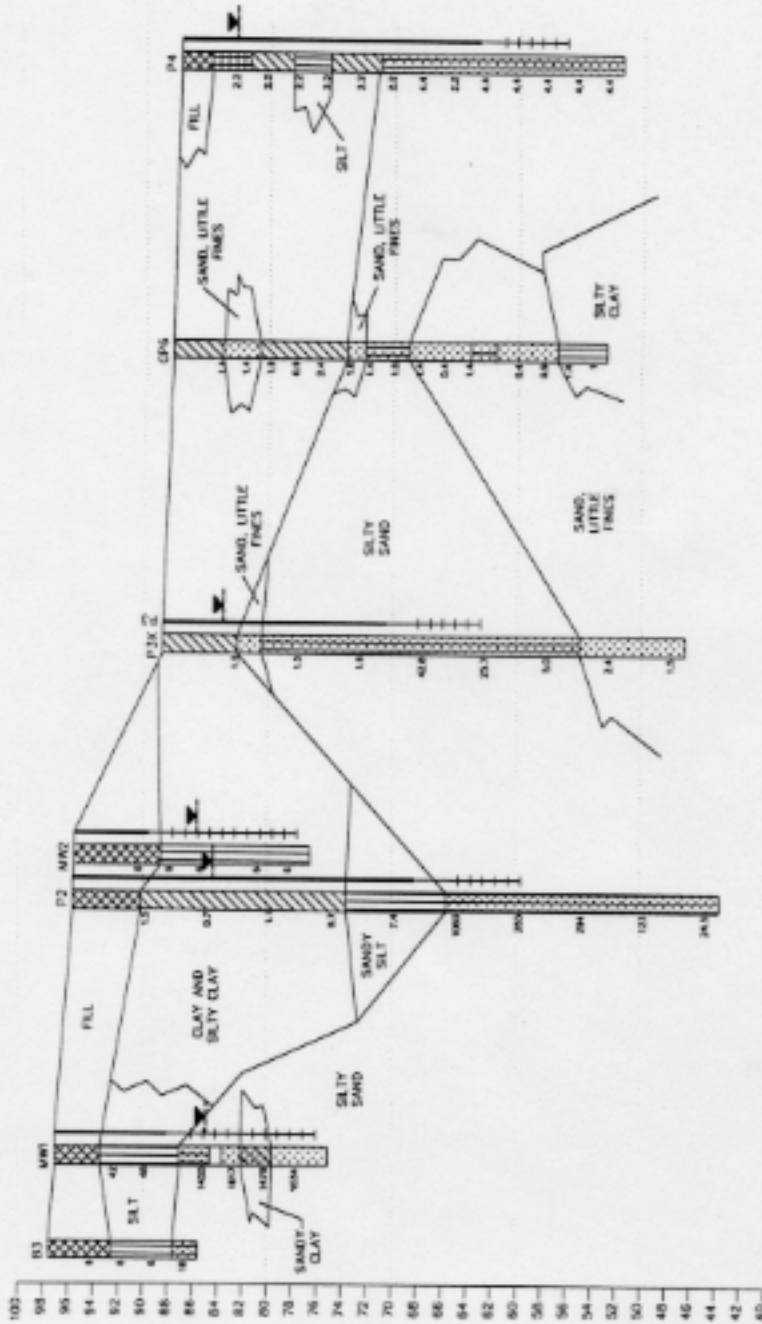
NOTE: ELEVATIONS MEASURED RELATIVE TO AN ON-SITE BENCHMARK WITH AN ASSUMED ELEVATION OF 100 FEET.

PROJECT NO. 438
DRAWN BY: KP
CHECKED BY: DM
DRAWN: 01/10/96
REVISED: 02/07/96

FIGURE 5  
 CROSS SECTION A-A'  
 JEFFERSON ICE PUMP  
 352 EAST RACINE STREET  
 JEFFERSON, WISCONSIN

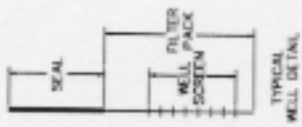


B



B'

HORIZONTAL SCALE 1" = 40'  
 VERTICAL SCALE 1" = 10'  
 VERTICAL EXAGGERATION = 4X



- LEGEND
- FILL, VARIOUS COMPOSITION
  - CLAY (CL) OR SILTY CLAY (CL-SL)
  - SILTY SAND (SM)
  - SANDY SILT (SL)
  - ORGANIC SILT OR CLAY (O/S/OH)
  - SAND, POORLY GRADED LITTLE FINES (SP)
  - SILTY SAND (SM)
  - SANDY CLAY (SC)
  - SAND, LITTLE FINES
  - SILTY SAND
  - SAND, LITTLE FINES
  - WATER TABLE ELEVATION MEASURED ON 12/20/95
  - PHOTOLOGRAPHIC DETECTOR READING
  - DEPTH INTERVAL FOR DISCRETE GROUNDWATER SAMPLE

NOTE: ELEVATIONS MEASURED RELATIVE TO AN ON-SITE BENCHMARK WITH AN ASSUMED ELEVATION OF 100 FEET.

FIGURE 6  
 CROSS SECTION B-B'  
 JEFFERSON ICE PUMP  
 352 EAST RACINE STREET  
 JEFFERSON, WISCONSIN

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J.A.S.B./S.E.C./A.M.C.

