GIS REGISTRY INFORMATION

SITE NAME:	**HOLT ELECTRIC PROPERTY**
BRRTS # and FID #:	**03-41-378659, 241313050**
CLOSURE DATE:	03.04.2005
STREET ADDRESS:	5225 West State Street
CITY:	Milwaukee
SOURCE PROPERTY GPS COORDINATES (meters in WTM91 projection):	**X=** 684548 **Y=** 287683

OFF-SOURCE CONTAMINATION (>ES): ☐ **Yes** ☐ **No**
(if there are more than 2 off-source properties, make a note and attach additional sheet(s))

IF YES, STREET ADDRESS 1:

GPS COORDINATES (meters in WTM91 projection): **X=** **Y=**

IF YES, STREET ADDRESS 2:

GPS COORDINATES (meters in WTM91 projection): **X=** **Y=**

CONTAMINATION IN RIGHT OF WAY: ☐ **Yes** X **No**

CONTAMINATED MEDIA: (Groundwater, Soil or Both?) **BOTH**

Closure Letter, and any conditional closure letter issued	X
Copy of most recent deed, including legal description, for all affected properties	X
Certified survey map or relevant portion of the recorded plat map (*if referenced in the legal description*) for all affected properties	N/A
County Parcel ID number, *if used for county*, for all affected properties	X
Location Map which outlines all properties within contaminated site boundaries in sufficient detail to permit the parcels to be located easily (8.5x14" if paper copy)	X
Detailed Site Map(s) for all affected properties, showing buildings, roads, property boundaries, contaminant sources, utility lines, monitoring wells and potable wells. (8.5x14", if paper copy)	X
Tables of Latest Groundwater Analytical Results (no shading or cross-hatching)	X
Isoconcentration map(s), *if available from site investigation (SI)* (8.5x14" if paper copy). The isoconcentration map should have flow direction and extent of contamination defined. **If not available, include the following 2 types of maps:**	X
Latest groundwater flow/monitoring well location map	X
Latest extent of contaminant plume map	N/A
Geologic cross-sections, *if available from SI.* (8.5x14' if paper copy)	X
Certified statement that legal descriptions are complete and accurate	X
Copies of off-source notification letters (if applicable)	N/A
Letter informing ROW owner of residual contamination (if applicable)	N/A
Copy of (soil or land use) deed restriction(s) or deed notice *if any required as a condition of closure.*	X

RECEIVED MAR 4 2005 BY

State of Wisconsin \ DEPARTMENT OF NATURAL RESOURCES

WISCONSIN
DEPT. OF NATURAL RESOURCES

Jim Doyle, Governor
Scott Hassett, Secretary
Gloria L. McCutcheon, Regional Director

Southeast Region Headquarters
2300 N. Dr. Martin Luther King, Jr. Drive
Milwaukee, Wisconsin 53212-3128
FAX 414-263-8606
Telephone 414-263-8500
TTY Access via relay - 711

March 4, 2005

Mr. Jeff Starck
Starck Associates, LLC.
5225n West State Street
Milwaukee, WI 53208

Subject: Final Closure for Holt Electric Property, 5225 West State Street, Milwaukee, WI

FID: 241313050
BRRTS: 03-41-378659

Dear Mr. Starck:

On September 7, 2004, your site as described above was reviewed for closure by the Wisconsin Department of Natural Resources ("the Department"). The Department reviews environmental remediation cases for compliance with state laws and standards to maintain consistency in the closure of these cases. On September 7, 2004, you were notified that conditional closure was granted to this case.

On February 17, 2005, the Department received correspondence indicating that you have complied with the conditions of closure. The Department received a copy of the filed deed restriction for the property. Based on the correspondence and data provided, it appears that your case 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.

Your site will be listed on the DNR Remediation and Redevelopment GIS Registry of Closed Remediation Sites. Information that was submitted with your closure request application will be included on the registry. To review the sites on the GIS Registry web page, visit http://gomapout.dnr.state.wi.us/org/at/et/geo/gwur/index.htm If your property is listed on the GIS Registry due to groundwater contamination exceeding ch. NR 140 standards at the time of closure, and you intend to construct or reconstruct a well, you will need Department approval. Department approval is required before construction or reconstruction of a well on a property listed on the GIS Registry, in accordance with s. NR 812.09(4)(w). To obtain approval, Form 3300-254 needs to be completed and submitted to the DNR Drinking and Groundwater program's regional water supply specialist. This form can be obtained on-line at the web address listed above.

Please be aware that this 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 the environment.

The Department appreciates the actions you have taken to investigate and remediate the contamination at this site. If you have any questions or comments, please feel free to contact me at the above address or at (414) 263-8644. Please refer to the FID number at the top of this letter in any future correspondence. Future correspondence should be sent directly to the Remediation and Redevelopment Program Assistant Vicky Stovall (414-263-8688) at the above address.

Sincerely,

John J. Hnat, P. G.
Senior Hydrogeologist
Remediation and Redevelopment

C: Lanette Altenbach, STS Consultants
WDNR SER Files

State of Wisconsin \ DEPARTMENT OF NATURAL RESOURCES

WISCONSIN
DEPT. OF NATURAL RESOURCES

Jim Doyle, Governor
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Southeast Region Headquarters
2300 N. Dr. Martin Luther King, Jr. Drive
P O Box 12436
Milwaukee, Wisconsin 53212-0436
Telephone 414-263-8500
FAX 414-263-8483
TTY 414-263-8713

September 7, 2004

Mr. George Beeson, President
Revere Electric Supply Company
2501 West Washington
Chicago, IL 60612

Subject: Conditional Closure for Holt Electric, 5225 West State Street, Milwaukee, WI

FID: 241313050
BRRTS: 03-41-378659 & 07-41-530903

Dear Mr. Beeson:

On September 7, 2004, your request for closure of the case described above was reviewed by the Wisconsin Department of Natural Resources ("the Department"). The Department reviews environmental remediation cases for compliance with state rules and statutes to maintain consistency in the closure of these cases. After careful review of the closure request, the Department has determined that the soil and groundwater contamination from metals and chlorinated VOCs from fill material onsite appears to have been investigated and remediated to the extent practicable under site conditions. Your case has been remediated to Department standards in accordance with s. NR 726.05, Wis. Admin. Code and will be closed when the following conditions are satisfied:

1. Because there are groundwater monitoring wells that Revere Electric and Waco Oil installed on the Holt Electric Property, only the following wells are to be abandoned: all groundwater-monitoring wells associated with the Holt Electric site investigation ***except*** HMW-3 and HMW-4. These two wells will be monitored by Waco Oil as part of their remediation process and will be the responsibility of Waco Oil to abandon in the future. These two wells are necessary to grant the offsite exemption request received by this office on August 24, 2004 (see Offsite Exemption discussion). The remaining groundwater monitoring wells at the site must be properly abandoned in compliance with ch. NR 141, Wis. Admin. Code. Documentation of well abandonment must be submitted to this office on Form 3300-5B found at www.dnr.state.wi.us/org/water/dgw/gw.

2. The Department is reviewing the draft deed restriction and cap maintenance plan for the soil contamination found onsite. The purpose of the restriction and cap maintenance plan is to maintain a surface barrier over the remaining soil contamination to prevent if from impacting human health and the environment, and require that the owner of the property investigate the degree and extent of residual contamination that is currently inaccessible, if structural impediments that currently exist on the property are removed.

   After the Department has reviewed the draft documents for completeness and you are notified to proceed with the filing of the document, you should sign it if you own the property, or have the appropriate property owner sign it, and have it recorded by the Milwaukee County Registry of Deeds. Then you must send a copy of the recorded document, with the recording information stamped on it, to me. Please be aware that if a deed 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.

3. Section NR 726.05(10) Wis. Admin. Code requires that the above conditions must be satisfied within 120-days of receipt of this conditional closure letter except for deed restrictions that comply with NR 726.05(8)(b), Wis. Admin. Code, which must be recorded within 90-days of receipt of this letter. Because of the possible delay in approving the draft deed restriction and cap maintenance plan, the 90-day final filing of these documents is considered complete with the submittal of the drafts. Your site will be listed on the DNR Remediation and Redevelopment GIS Registry of Closed Remediation Sites. Information that was submitted with your closure request application will be included on the registry. To review the sites on the GIS Registry web page, visit :

http://gomapout.dnr.state.wi.us/org/at/et/geo/gwur/index.htm.

Offsite Exemption

The Department is in receipt of an offsite exemption from the owner Starck Associates, LLC. The Department recognizes the fact that petroleum contamination from the Waco Oil property has affected the Holt Electric Property. Statute, s. 292.13, Wis. Statutes, limits the responsibility of the person who possess or controls the property when soil, sediment, or groundwater contamination migrates onto their property from another property. Eligibility requirements require the person to agree to comply and allow reasonable access of the property to the DNR and any responsible party for the purpose of conducting environmental response actions.

The Holt Electric property has groundwater monitoring wells installed by Revere Electric and Waco Oil. In order to conform with the offsite exemption, groundwater monitoring wells HMW-3, HMW-4, MW-40, MW-43, MW-34 and MW-17 will be required to be maintained by Waco Oil for remediation purposes which also satisfies one of the requirements for the offsite exemption (as discussed above). In the future, when Waco Oil finally receives conditional closure for their site, Waco Oil will be responsible for the abandonment of these wells. The offsite exemption will continue to be in effect after closure of these wells. For more information on the Waco Oil site, please contact Eric Amadi at 414-263-8639.

The offsite exemption will be granted to Starck Associates on receipt of the well abandonment forms (for HMW-1, HMW-2, HMW-5, HMW-5P, HMW-6, HMW-7, and HMW-8) for the Holt Electric property.

Please be aware that the case maybe reopened pursuant to s. NR 726.09, Wis. Admin. 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.

If you have any questions or comments, please feel free to contact me at the above address or at (414) 263-8644. Please refer to the FID number at the top of this letter in any future correspondence. Future correspondence should be sent directly to me at the above address.

Sincerely,

John J. Hnat, P. G.
Senior Hydrogeologist
Remediation and Redevelopment

C: Eric Amadi, WDNR SER R&R
Jeff Stark, Starck Associates
Lanette Altenbach, STS Consultants
WDNR SER Files

DOCUMENT NO.

State Bar of Wisconsin Form 1 - 1982

WARRANTY DEED

This Deed, made between

REVERE ELECTRIC SUPPLY CO., an Illinoise corporation

Grantor, and

STARCK ASSOCIATES II, LLC, a Wisconsin limited liability company

Grantee,

THIS SPACE RESERVED FOR RECORDING DATA

Return Document to:

MICHAEL BEST & FRIEDRICH
ATTN: JOSEPH TIERNEY
N19 W24133 RIVERWOOD DRIVE SUITE 200
WAUKESHA, WI 53188

Witnesseth That the said Grantor, for a valuable consideration conveys to Grantee the following described real estate in MILWAUKEE County: Tax Parcel No: 385-0045-X

The West 150 feet, measured on the North line of the Lot, of Lot 3, in Block 8 of the Assessor's Plat No. 126, in the Northwest 1/4 of Section 26, in Town 7 North, Range 21 East, in the City of Milwaukee, County of Milwaukee, State of Wisconsin, also described as that part of the above-mentioned 1/4 Section commencing at a point in the North line of the right-of-way of the Chicago, Milwaukee, St. Paul and Pacific Railroad, 506.18 feet South 89° 31' West of its intersection with the East line of the said 1/4 Section; thence South 89° 31' West along the North line of said right-of-way

continued

This is not homestead property.
Together with all and singular the hereditaments and appurtenances thereunto belonging;
And REVERE ELECTRIC SUPPLY CO.
warrants that the title is good, indefeasible in fee simple and free and clear of encumbrances except municipal and zoning ordinances and agreements entered under them, recorded easements for the distribution of utility and municipal services, recorded building and use restrictions and covenants, and general taxes levied in the year of closing.

and will warrant and defend the same.

Dated this 4 day of November, 2003

REVERE ELECTRIC SUPPLY CO., an Illinois corporation

_____ (SEAL) _____ (SEAL)

* GEORGE BEESON, CHIEF FINANCIAL OFFICER * _____

_____ (SEAL) _____ (SEAL)

* _____ * _____

AUTHENTICATION

Signature(s) of _____

_____

authenticated this ____ day of _____, ____

_____

* _____

TITLE: MEMBER STATE BAR OF WISCONSIN

(If not, _____

authorized by § 706.06, Wis. Stats.

THIS INSTRUMENT WAS DRAFTED BY

ATTORNEY JEFFREY P. PATTERSON

(Signatures may be authenticated or acknowledged. Both are not necessary.)

ACKNOWLEDGEMENT

STATE OF WISCONSIN

Waukesha County, } ss.

Personally came before me this 4 day of November, 2003 the above named

GEORGE BEESON, CHIEF FINANCIAL OFFICER

_____

_____

to me known to be the person(s) who executed the foregoing instrument and acknowledged the same.

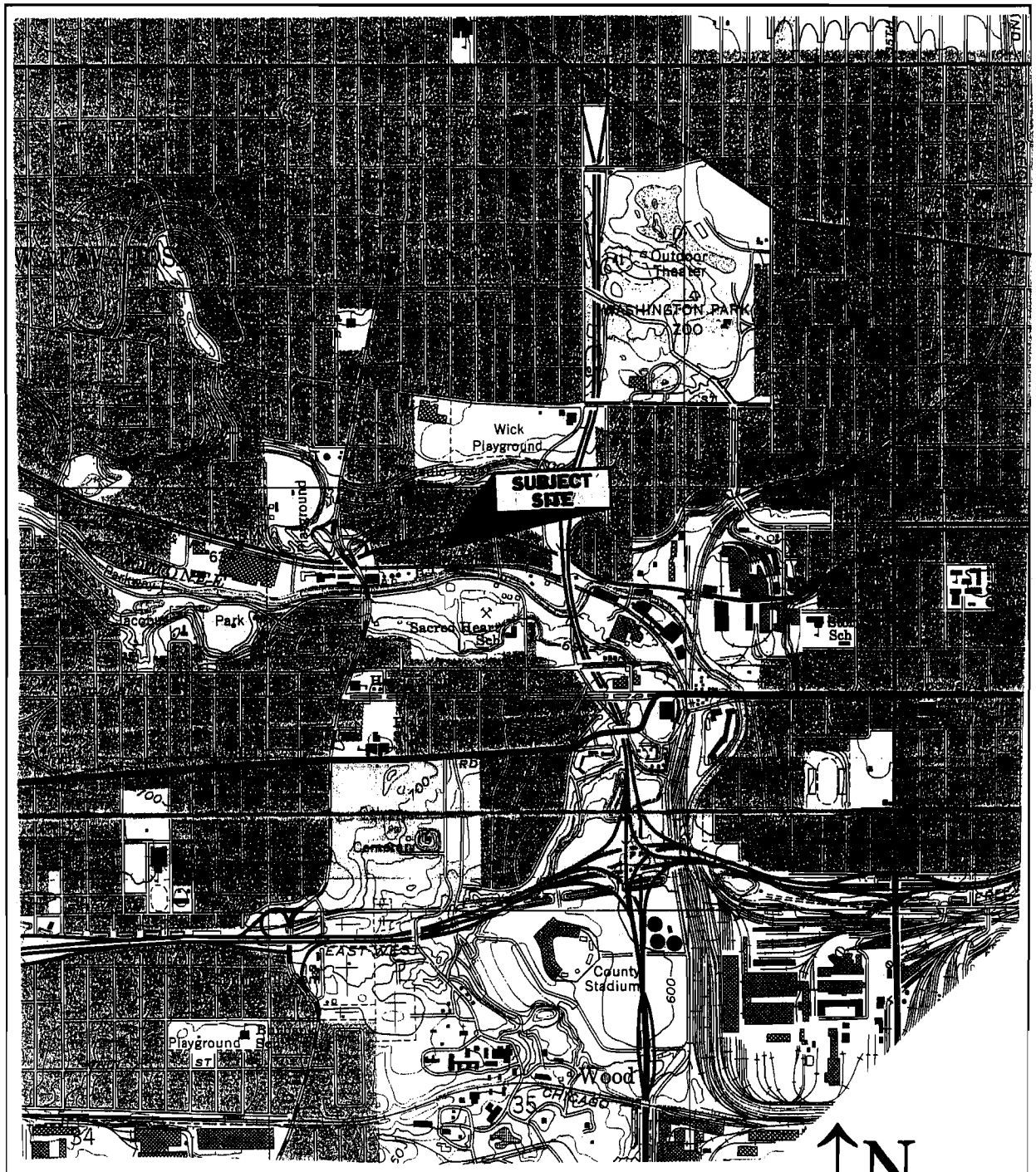
Patricia A. Winter

Notary Public Milwaukee County, Wis.

My Commission is permanent. (If not, state expiration date: June 11, 2006.)

PATRICIA A. WINTER NOTARY PUBLIC STATE OF WISCONSIN

* Names of persons signing in any capacity should be typed or printed below their signatures.

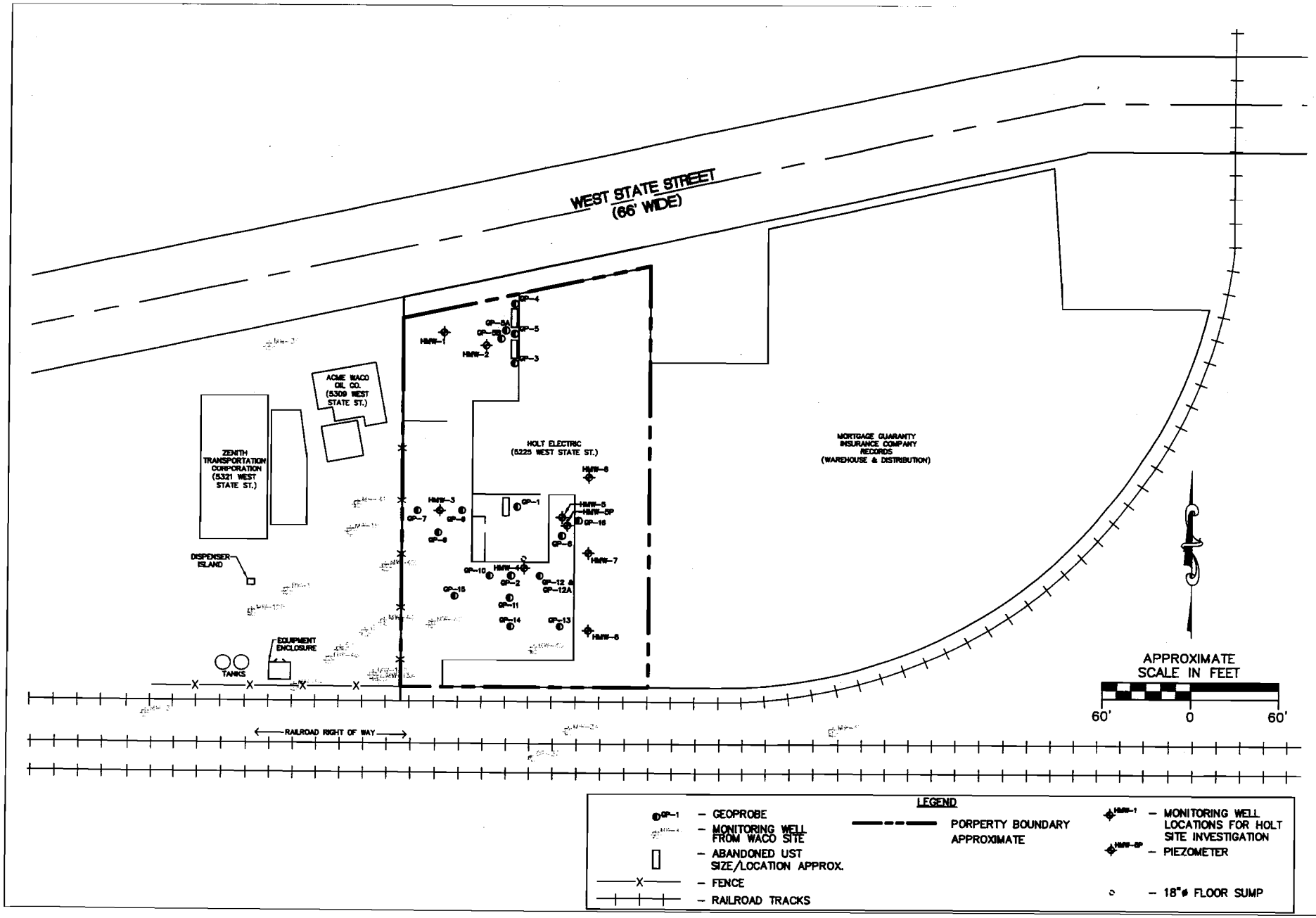


SOURCE: MILWAUKEE, WISCONSIN QUADRANGLE, DATED 1958, REVISED 1971.

STS Consultants Ltd
Consulting Engineers

SITE LOCATION MAP
HOLT ELECTRIC MOTOR COMPANY
5225 W. STATE STREET
MILWAUKEE, WISCONSIN

DRAWN BY: dlm	DATE: 5/17/02
CHECKED BY: dlm	DATE: 5/17/02
APPROVEDBY: twk	DATE: 5/17/02
FILE NO. 5-87094XA	SCALE: 1:24000
STS PROJECT NO. 5-87094XA	FIGURE NO. 1



REV. NO.	DESCRIPTION	DATE	BY
2	REVISIONS	8/17/04	RMB
1	ADDED GP's and HMW's	11/20/03	KDJH

DESIGNED BY — DATE
DRAWN BY WDB — DATE 9/5/02
APPROVED BY — DATE

CADFILE: X:\Projects\587094XE\dwg\0587094XE-1-30-04.dwg
REF: 1.DWG FIGURE-6

SOIL AND GROUNDWATER SAMPLE LOCATIONS
HOLT ELECTRIC
5225 WEST STATE STREET
MILWAUKEE, WISCONSIN

STS Consultants Ltd.
Environmental Engineers
7425 S. Lake Park Dr.
Oak Creek, WI 53154
414.768.3000

STS PROJECT NUMBER: 0587094XE
STS PROJECT FILE:
SCALE: AS SHOWN
SHEET NUMBER: 2

X:\Projects\587094XE\dwg\0587094XE-1-30-04.dwg, 08/17/2004 10:10:32 AM, bellr

BRRTS# 03-41-378659 Attachment to Closure Summary for Holt Electric

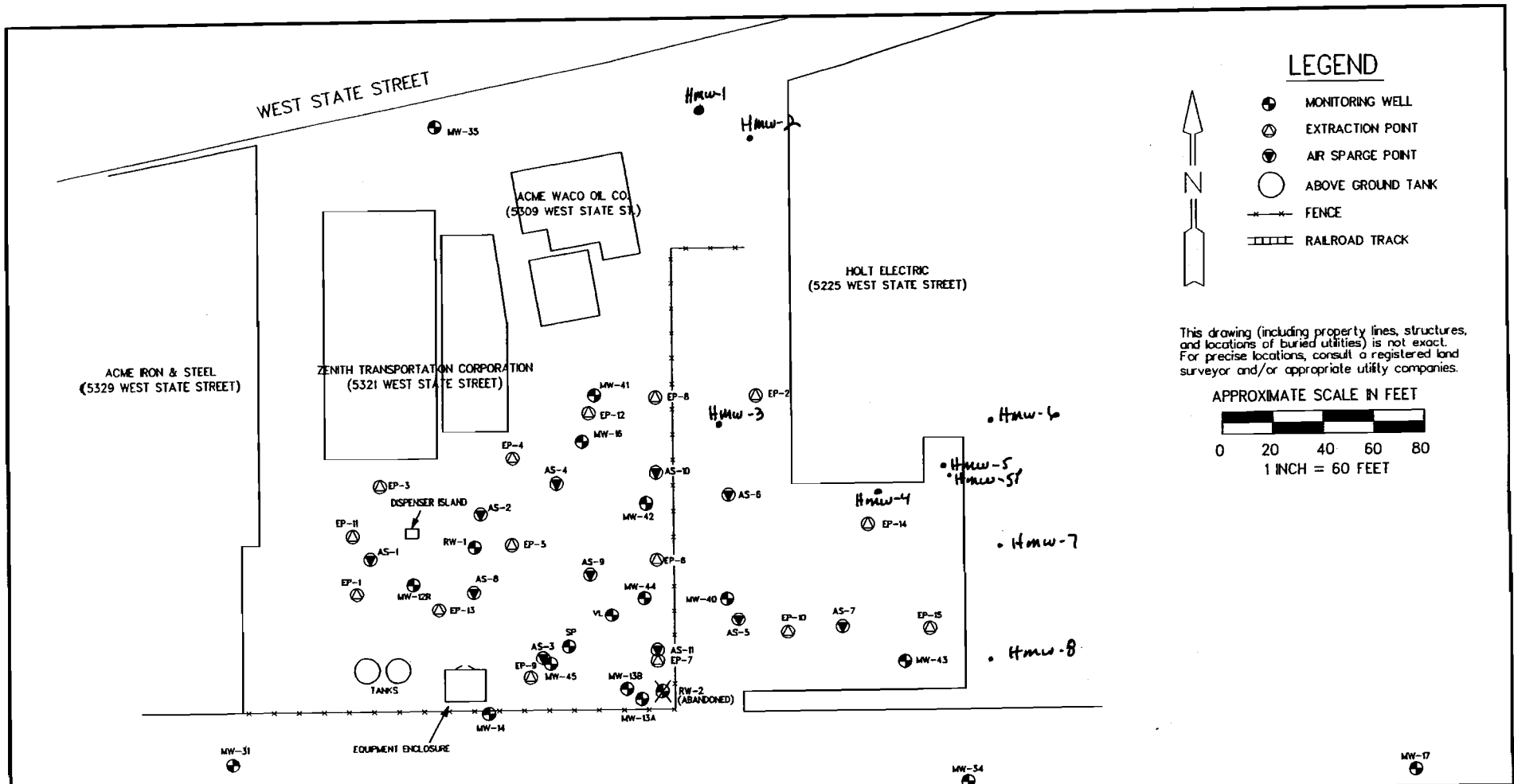


FIGURE 1
SITE MAP
WACO OIL COMPANY
MILWAUKEE, WISCONSIN

PROJECT NO.	PREPARED BY
30-003-01	ADT
DATE	REVIEWED BY
1/8/97	DMB
FILENAME	
WACASB01.GCD	

Alliance Environmental Consultants, Inc.

Table 6
Groundwater Laboratory Analytical Results Summary - Detected Volatile Organic Compounds
Holt Electric, 5225 W. State Street, Milwaukee, Wisconsin
STS Project 5-87094XE

Well Location	Sample Date	Benzene (ug/L)	n-Butyl-benzene (ug/L)	sec-Butyl-benzene (ug/L)	tert-Butyl-benzene (ug/L)	Chloro-form (ug/L)	Chloro-methane (ug/L)	1,1-Dichloro-ethane (ug/L)	cis-1,2-Dichloro-ethene (ug/L)	trans-1,2-Dichloro-ethene (ug/L)	Ethyl-benzene (ug/L)	Isopropyl-benzene (ug/L)	p-Isopropyl toluene (ug/L)	Methyl-tert-butyl-ether (ug/L)	n-Propyl-benzene (ug/L)	Tetra-chloro-ethene (ug/L)	Toluene (ug/L)	1,1,1-Trichloro ethane (ug/L)	1,2,4-Trimethylb enzene (ug/L)	1,3,5-Trimethylb enzene (ug/L)	Vinyl chloride (ug/L)	Xylene Totals (ug/L)	Groundwater Elevation (feet msl)
HMW-1		**Top of Well Screen in Feet MSL: 620.4**											**Length of Well Screen: 10 ft.**										
	9-16-02	<0.5	<0.5	<0.5	<0.5	<0.14	<0.6	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	<1.0	<0.17	<0.5	614.42
	12-16-02	<0.5	<0.5	<0.5	<0.5	<0.14	<0.6	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	<1.0	<0.17	<0.5	613.69
	3-4-03	<0.5	<0.5	<0.5	<0.5	<0.14	<0.6	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	<1.0	<0.17	<0.5	613.48
	8-18-03	<0.5	<0.5	<0.5	<0.5	<0.14	<0.6	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	<1.0	<0.17	<0.5	613.88
HMW-2		**Top of Well Screen in Feet MSL: 620.1**											**Length of Well Screen: 10 ft.**										
	9-16-02	<0.5	<0.5	<0.5	<0.5	<0.14	<0.6	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	<1.0	<0.17	<0.5	614.20
	12-16-02	<0.5	<0.5	<0.5	<0.5	<0.14	<0.6	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	<1.0	<0.17	<0.5	613.52
	3-4-03	<0.5	<0.5	<0.5	<0.5	<0.14	<0.6	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	<1.0	<0.17	<0.5	613.26
	8-18-03	<0.5	<0.5	<0.5	<0.5	<0.14	<0.6	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	<1.0	<0.17	<0.5	613.74
HMW-3		**Top of Well Screen in Feet MSL: 619.4**											**Length of Well Screen: 10 ft.**										
	9-16-02	*2.08*	0.764	<0.5	<0.5	<0.14	<0.6	<0.5	<0.5	<0.5	0.873	<0.5	<0.5	6.32	<0.5	<0.5	<0.5	<0.5	<1.0	<1.0	<0.17	0.749	616.36
	12-16-02	*0.705*	<0.5	<0.5	<0.5	<0.14	<0.6	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	3.2	<0.5	<0.5	<0.5	<0.5	<1.0	<1.0	<0.17	<0.5	615.56
	3-4-03	<0.5	<0.5	<0.5	<0.5	<0.14	<0.6	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	3.91	<0.5	<0.5	<0.5	<0.5	<1.0	<1.0	<0.17	<0.5	615.36
	8-18-03	**194**	2.94	1.78	<0.5	<0.14	<0.6	<0.5	<0.5	<0.5	26.0	3.61	0.693	6.32	5.10	<0.5	2.16	<0.5	<1.0	<1.0	<0.17	5.07	616.16
	11-20-03	**14.8**	0.977	<0.5	<0.5	<0.14	<0.6	<0.5	<0.5	<0.5	4.93	0.882	<0.5	3.35	1.16	<0.5	<0.5	<0.5	<1.0	<1.0	<0.17	0.995	616.78
	2-20-04	**8**	<0.93	<0.89	<0.97	<0.37	<0.24	<0.75	<0.83	<0.89	1.2[Q]	<0.59	<0.67	8.9	0.89[Q]	<0.45	<0.67	<0.90	<0.97	<0.83	<0.18	<2.63	616.06
	5-6-04	**770**	<4.6	<4.4	<4.8	<1.8	<1.2	<3.8	<4.1	<4.4	38	5.7[Q]	<3.4	75	8.6[Q]	<2.2	4.4[Q]	<4.5	<4.8	<4.1	<0.90	4.5[Q]	616.57
HMW-4		**Top of Well Screen in Feet MSL: 620.1**											**Length of Well Screen: 10 ft.**										
	9-16-02	<0.5	0.735	2.04	1.19	<0.14	**9.8**	<0.5	<0.5	<0.5	<0.5	2.02	1.14	0.951	1.2	<0.5	<0.5	<0.5	3.8	1.76	<0.17	0.726	613.68
	12-16-02	<0.5	0.772	3.74	1.42	<0.14	**4.58**	<0.5	<0.5	<0.5	<0.5	1.15	4.78	1.67	1.92	<0.5	<0.5	<0.5	3.48	1.92	<0.17	1.66	612.92
	3-4-03	<0.5	1.02	3.78	1.58	<0.14	**5.22**	<0.5	<0.5	<0.5	<0.5	0.589	2.06	1.18	1.16	<0.5	<0.5	<0.5	1.88	1.67	<0.17	1.48	612.74
	8-18-03	<0.5	0.579	3.03	2.50	<0.14	<0.6	<0.5	<0.5	<0.5	<0.5	<0.5	1.35	1.01	0.978	<0.5	<0.5	<0.5	1.56	1.65	<0.17	0.574	613.14
	11-20-03	<0.5	<0.5	1.36	1.14	<0.14	<0.6	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.842	0.684	<0.5	<0.5	<0.5	<1.0	<1.0	<0.17	<0.5	613.89
	2-20-04	<0.41	<0.93	<0.89	<0.97	<0.37	<0.24	<0.75	<0.83	<0.89	<0.54	<0.59	<0.67	1.0[Q]	<0.81	<0.45	<0.67	<0.90	<0.97	<0.83	<0.18	<2.63	613.09
	5-6-04	<0.41	<0.93	2.7[Q]	2.4[Q]	<0.37	<0.24	<0.75	<0.83	<0.89	<0.54	2.4	0.69[Q]	<0.61	0.99[Q]	<0.45	<0.67	<0.90	<0.97	<0.83	<0.18	<2.63	613.74
HMW-5		**Top of Well Screen in Feet MSL: 620.4**											**Length of Well Screen: 10 ft.**										
	9-16-02	*0.989*	0.84	5.11	1.26	<0.14	**4.96**	<0.5	<0.5	<0.5	0.704	5.04	1.07	2.27	<0.5	<0.5	1.24	<0.5	<1.0	<1.0	**1.55**	2.09	613.67
	12-16-02	*0.878*	1.03	6.65	1.31	<0.14	*0.85*	<0.5	<0.5	<0.5	0.573	5.79	<0.5	2.7	0.634	<0.5	1.03	<0.5	<1.0	<1.0	<0.17	1.84	612.95
	3-4-03	*0.633*	1.54	7.6	0.947	<0.14	<0.6	<0.5	<0.5	<0.5	0.788	6.39	<0.5	<0.5	0.898	<0.5	0.911	<0.5	<1.0	<1.0	<0.17	2.61	612.74
	8-18-03	*0.818*	1.67	7.61	2.47	<0.14	<0.6	<0.5	<0.5	<0.5	<0.5	8.14	<0.5	2.39	0.854	<0.5	0.966	<0.5	<1.0	1.16	<0.17	2.00	613.17
	11-20-03	*0.891*	1.3	7.86	1.55	<0.14	<0.6	<0.5	<0.5	<0.5	1.01	7.69	<0.5	1.57	0.716	<0.5	0.816	<0.5	<1.0	<1.0	<0.17	2.08	613.87
	2-20-04	<0.41	<0.93	2.7[Q]	<0.97	<0.37	<0.24	<0.75	<0.83	<0.89	<0.54	5.9	<0.67	1.5[Q]	<0.81	<0.45	<0.67	<0.90	<0.97	<0.83	<0.18	<2.63	613.11
	5-6-04	<0.41	<0.93	2.2[Q]	<0.97	<0.37	<0.24	<0.75	<0.83	<0.89	<0.54	4.9	<0.67	1.1[Q]	<0.81	<0.45	<0.67	<0.90	<0.97	<0.83	<0.18	<2.63	613.78
PAL[A]		0.5	NE	NE	NE	0.6	0.3	85	7.0	20.0	140	NE	NE	12	NE	0.5	200	40	96*	96*	0.02	1000	
ES[B]		5	NE	NE	NE	6	3	850	70	100	700	NE	NE	60	NE	5	1000	200	480*	480*	0.2	10,000	

Table 6
Groundwater Laboratory Analytical Results Summary - Detected Volatile Organic Compounds
Holt Electric, 5225 W. State Street, Milwaukee, Wisconsin
STS Project 5-87094XE

Well Location	Sample Date	Benzene (ug/L)	n-Butylbenzene (ug/L)	sec-Butylbenzene (ug/L)	tert-Butylbenzene (ug/L)	Chloroform (ug/L)	Chloromethane (ug/L)	1,1-Dichloroethane (ug/L)	cis-1,2-Dichloroethene (ug/L)	trans-1,2-Dichloroethene (ug/L)	Ethylbenzene (ug/L)	Isopropylbenzene (ug/L)	p-Isopropyltoluene (ug/L)	Methyl-tert-butyl-ether (ug/L)	n-Propylbenzene (ug/L)	Tetrachloroethene (ug/L)	Toluene (ug/L)	1,1,1-Trichloroethane (ug/L)	1,2,4-Trimethylbenzene (ug/L)	1,3,5-Trimethylbenzene (ug/L)	Vinyl chloride (ug/L)	Xylene Totals (ug/L)	Groundwater Elevation (feet msl)
HMW-5D (duplicate)	3-4-03	*0.658*	0.927	5.69	1.11	<0.14	*1.45*	<0.5	<0.5	<0.5	0.774	6.14	<0.5	2.46	0.565	<0.5	0.914	<0.5	<1.0	<1.0	**1.37**	2.45	
	8-18-06	*0.779*	1.41	6.55	2.21	0.14	<0.6	<0.5	<0.5	<0.5	0.711	7.35	<0.5	2.24	0.71	<0.5	0.869	<0.5	<1.0	<1.0	<0.17	1.79	
	11-20-03	*0.730*	1.16	6.68	1.04	<0.14	<0.6	<0.5	<0.5	<0.5	0.894	6.76	<0.5	1.63	0.616	<0.5	0.759	<0.5	<1.0	<1.0	<0.17	1.78	
	2-20-04	<0.41	<0.93	2.8[Q]	<0.97	<0.37	<0.24	<0.75	<0.83	<0.89	<0.54	6.2	<0.67	1.8[Q]	<0.81	<0.45	<0.67	<0.90	<0.97	<0.83	<0.18	<2.63	
	5-6-04	<0.41	<0.93	2.3[Q]	<0.97	<0.37	<0.24	<0.75	<0.83	<0.89	<0.54	5.0	<0.67	1.0[Q]	<0.81	<0.45	<0.67	<0.90	<0.97	<0.83	<0.18	<2.63	
HMW-5P		Top of Well Screen in Feet MSL: 606.16											Length of Well Screen: 5 ft.										
	5-6-04	<0.41	<0.93	<0.89	<0.97	<0.37	<0.24	<0.75	<0.83	<0.89	<0.54	<0.59	<0.67	<0.61	<0.81	<0.45	<0.67	<0.90	<0.97	<0.83	**2.4**	<2.63	613.62
	6-7-04	<0.41	<0.93	<0.89	<0.97	<0.37	<0.24	<0.75	<0.83	<0.89	<0.54	<0.59	<0.67	<0.61	<0.81	<0.45	<0.67	<0.90	<0.97	<0.83	<0.18	<2.63	615.36
HMW-6		Top of Well Screen in Feet MSL: 618.3											Length of Well Screen: 10 ft.										
	12-16-02	*1.17*	<0.5	4.82	1.4	<0.14	<0.6	<0.5	<0.5	<0.5	<0.5	1.75	<0.5	8.16	0.852	<0.5	0.579	<0.5	<1.0	<1.0	**1.85**	1.84	613.00
	3-4-03	*0.816*	<0.5	3.27	1.1	<0.14	<0.6	<0.5	<0.5	<0.5	0.57	2.41	0.518	8.04	0.864	<0.5	<0.5	<0.5	<1.0	<1.0	**1.82**	1.9	612.73
	8-18-03	*0.585*	0.668	4.28	1.54	<0.14	<0.6	<0.5	<0.5	<0.5	<0.5	2.46	<0.5	8.17	0.855	<0.5	<0.5	<0.5	<1.0	<1.0	<0.17	1.11	613.14
	11-20-03	*1.01*	<0.5	5.05	1.46	<0.14	<0.6	<0.5	<0.5	<0.5	0.639	3.31	<0.5	7.73	0.859	<0.5	<0.5	<0.5	<1.0	<1.0	**0.98**	1.41	613.74
	2-20-04	<0.41	<0.93	1.7[Q]	<0.97	<0.37	<0.24	<0.75	<0.83	<0.89	<0.54	2.1	<0.67	6.3	<0.81	<0.45	<0.67	<0.90	<0.97	<0.83	<0.18	<2.63	613.08
	5-6-04	<0.41	<0.93	1.5[Q]	<0.97	<0.37	<0.24	<0.75	<0.83	<0.89	<0.54	2.1	<0.67	6.2	<0.81	<0.45	<0.67	<0.90	<0.97	<0.83	**0.9**	<2.63	613.68
HMW-7		Top of Well Screen in Feet MSL: 618.1											Length of Well Screen: 10 ft.										
	12-16-02	<0.5	<0.5	<0.5	<0.5	<0.14	<0.6	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	<1.0	<0.17	<0.5	612.91
	3-4-03	<0.5	<0.5	<0.5	<0.5	<0.14	<0.6	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	<1.0	<0.17	<0.5	612.69
	8-18-03	<0.5	<0.5	<0.5	<0.5	<0.14	<0.6	<0.5	0.533	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.815	<1.0	<1.0	<0.17	<0.5	613.11
	11-20-03	<0.5	<0.5	0.896	<0.5	<0.14	<0.6	0.525	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	<1.0	<0.17	<0.5	613.83
	2-20-04	<0.41	<0.93	<0.89	<0.97	<0.37	<0.24	<0.75	<0.83	<0.89	<0.54	<0.59	<0.67	<0.61	<0.81	<0.45	<0.67	<0.90	<0.97	<0.83	<0.18	<2.63	613.03
	5-6-04	<0.41	<0.93	<0.89	<0.97	<0.37	<0.24	<0.75	<0.83	<0.89	<0.54	<0.59	<0.67	<0.61	<0.81	<0.45	<0.67	<0.90	<0.97	<0.83	<0.18	<2.63	613.68
HMW-8		Top of Well Screen in Feet MSL: 619.4											Length of Well Screen: 10 ft.										
	12-16-02	<0.5	<0.5	1.09	<0.5	<0.14	<0.6	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	<1.0	<0.17	<0.5	612.99
	3-4-3	<0.5	<0.5	0.983	<0.5	<0.14	<0.6	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	<1.0	<0.17	<0.5	612.78
	8-18-03	<0.5	<0.5	0.878	<0.5	<0.14	<0.6	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	<1.0	<0.17	<0.5	613.18
	11-20-03	<0.5	<0.5	0.986	<0.5	<0.14	<0.6	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	<1.0	<0.17	<0.5	613.88
	2-20-04	<0.41	<0.93	<0.89	<0.97	<0.37	<0.24	<0.75	<0.83	<0.89	<0.54	<0.59	<0.67	<0.61	<0.81	<0.45	<0.67	<0.90	<0.97	<0.83	<0.18	<2.63	613.13
	5-6-04	<0.41	<0.93	<0.89	<0.97	<0.37	<0.24	<0.75	<0.83	<0.89	<0.54	<0.59	<0.67	<0.61	<0.81	<0.45	<0.67	<0.90	<0.97	<0.83	<0.18	<2.63	613.75
PAL[A]		0.5	NE	NE	NE	0.6	0.3	85	7.0	20.0	140	NE	NE	12	NE	0.5	200	40	96*	96*	0.02	1000	
ES[B]		5	NE	NE	NE	6	3	850	70	100	700	NE	NE	60	NE	5	1000	200	480*	480*	0.2	10,000	

Notes:

ug/L = micrograms per liter NE= Not Established * PAL or ES is for total trimethylbenzenes or total xylenes.

PAL - Preventive Action Limit, Wisconsin Administrative Code NR 140.10 Table 1, April 2001. Exceedance of PAL is shown in italic font.

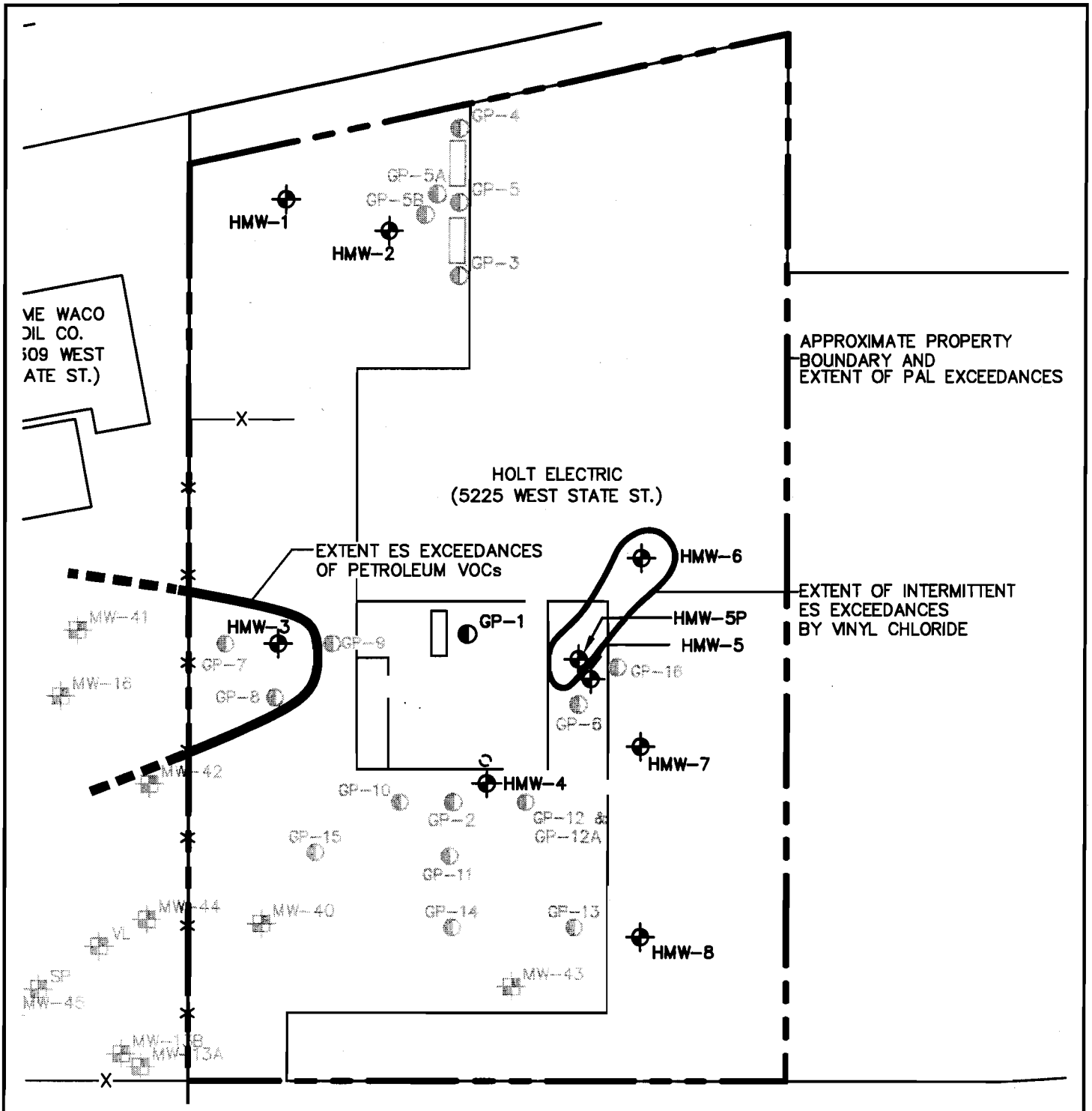
ES - Enforcement Standard, Wisconsin Administrative Code NR 140.10 Table 1, April 2001. Exceedance of ES is shown by bold font.

[Q] - Detected concentration is between the method detection limit and the practical quantitation limit.

Table 7
Groundwater Laboratory Analytical Results - Metals
Holt Electric, Milwaukee, Wisconsin
STS Project No, 5-87094XE

Well Location	Sample Date	Arsenic (µg/L)	Barium (µg/L)	Cadmium (µg/L)	Chromium (µg/L)	Lead (µg/L)	Mercury (µg/L)	Selenium (µg/L)	Silver (µg/L)	Ground-water Elevation-(feet msl)
HMW-1			Top of Well Screen in Feet MSL: 620.4				Length of Well Screen: 10 ft.			
	2-20-04	*1*[M]	300	<0.24	2.6[M]	1.4	<0.030	2.2	<0.090	613.75
HMW-2			Top of Well Screen in Feet MSL: 620.1				Length of Well Screen: 10 ft.			
	2-20-04	0.76[QM]	220	<0.24	2.0[M]	1.2[E]	<0.030	1.7[Q]	0.23[Q]	613.55
HMW-3			Top of Well Screen in Feet MSL: 619.4				Length of Well Screen: 10 ft.			
	11-20-03	<5	<400	*2.2*	<10	<1.5	**8.82**	<10	<10	616.78
	2-20-04	*4.5*[M]	290	<0.24	4.0[M]	0.63	<0.030	2.1[Q]	<0.090	616.06
	5-6-04	*2.50*	*510*	<0.044	6.6	*3.9*	<0.030	4.9	<0.073	616.57
HMW-4			Top of Well Screen in Feet MSL: 620.1				Length of Well Screen: 10 ft.			
	11-20-03	<5	<400	**1.39**[A]	<10	<1.5	<0.2	<10	<10	613.89
	2-20-04	*1.5*[M]	190	<0.24	6.8[M]	1.6	<0.030	3.6	<0.090	613.09
	5-6-04	*2.0*	220	0.050[Q]	5.6	0.54	<0.030	4.7	<0.073	613.74
HMW-5			Top of Well Screen in Feet MSL: 620.4				Length of Well Screen: 10 ft.			
	11-20-03	<5	<400	<0.5	<10	*2.52*	<0.2	<10	<10	613.87
	2-20-04	*1.7*	160	<0.24	4.8[M]	1.3	<0.030	3.9	<0.090	613.11
	5-6-04	*2.2*	160	0.08	3.7	0.6	<0.030	5.6	<0.073	613.78
HMW-5D (duplicate)	11-20-03	<5	<400	<0.5	<10	<1.5	*1.31*	<10	<10	
	5-6-04	*1.9*	160	0.090[Q]	4.1	0.49	<0.030	4.8	<0.073	
HMW-5P			Top of Well Screen in Feet MSL:				Length of Well Screen: 5 ft.			
	5-6-04	*2.30*	44	<0.044	1.5	0.61	<0.030	2.6	<0.073	
HMW-6			Top of Well Screen in Feet MSL: 618.3				Length of Well Screen: 10 ft.			
	11-20-03	*5.80*	<400	*1.62*	<10	<1.5	*0.719*	<10	<10	613.74
	2-20-04	*7.0*	140	<0.24	5.4[M]	1.0	<0.030	3.1	<0.090	613.08
	5-6-04	*5.9*	140	<0.044	4.4	0.5	<0.030	4.8	0.93	613.68
HMW-7			Top of Well Screen in Feet MSL: 618.1				Length of Well Screen: 10 ft.			
	11-20-03	<5	<400	<0.5	<10	<1.5	*0.48*	<10	<10	613.83
	2-20-04	*1.90*	270	<0.24	5.2[M]	1.4	<0.030	3.0	<0.090	613.03
	5-6-04	*1.60*	290	0.080[Q]	4.2	1.0	<0.030	3.8	<0.073	613.68
HMW-8			Top of Well Screen in Feet MSL: 618.4				Length of Well Screen: 10 ft.			
	11-20-03	<5	<400	*2.19*	<10	<1.5	<0.2	<10	<10	613.88
	2-20-04	*1.2*	120	<0.24	2.9[M]	0.86	<0.030	1.8[Q]	<0.090	613.13
	5-6-04	0.86	100	0.080[Q]	2.6	0.44	<0.030	2.0	<0.073	613.75
PAL		1.0	400	0.5	10	1.5	0.2	10	10	
ES		10	2,000	5	100	15	2	50	50	

ug/L = micrograms per liter
PAL - Preventive Action Limit, Wisconsin Administrative Code NR 140.10 Table 1, April 2001. Exceedances are in italics
ES - Enforcement Standard, Wisconsin Administrative Code NR 140.10 Table 1, April 2001. Exceedances are bold.
M - Detected in the laboratory method blank
E - Estimated concentration due to matrix interference
Q - Concentration is between the method detection limit and the practical quantitation limit.



- MONITORING WELL "P" DENOTES PIEZOMETER

HMW-8 METAL CONCENTRATIONS IN MILLIGRAMS PER KILOGRAM

ES - ENFORCEMENT STANDARD, NR140.10 TABLE 1

VOCs VOLATILE ORGANIC COMPOUNDS

N

0 40

1" = 40'

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EXTENT OF GROUNDWATER IMPACTS ABOVE THE ES
MAY 2004
HOLT ELECTRIC
MILWAUKEE, WISCONSIN

Drawn:	RNB	06/17/2004
Checked:	LLA	06/17/2004
Approved:	TWK	06/17/2004
PROJECT NUMBER	058709XE	
FIGURE NUMBER	11	

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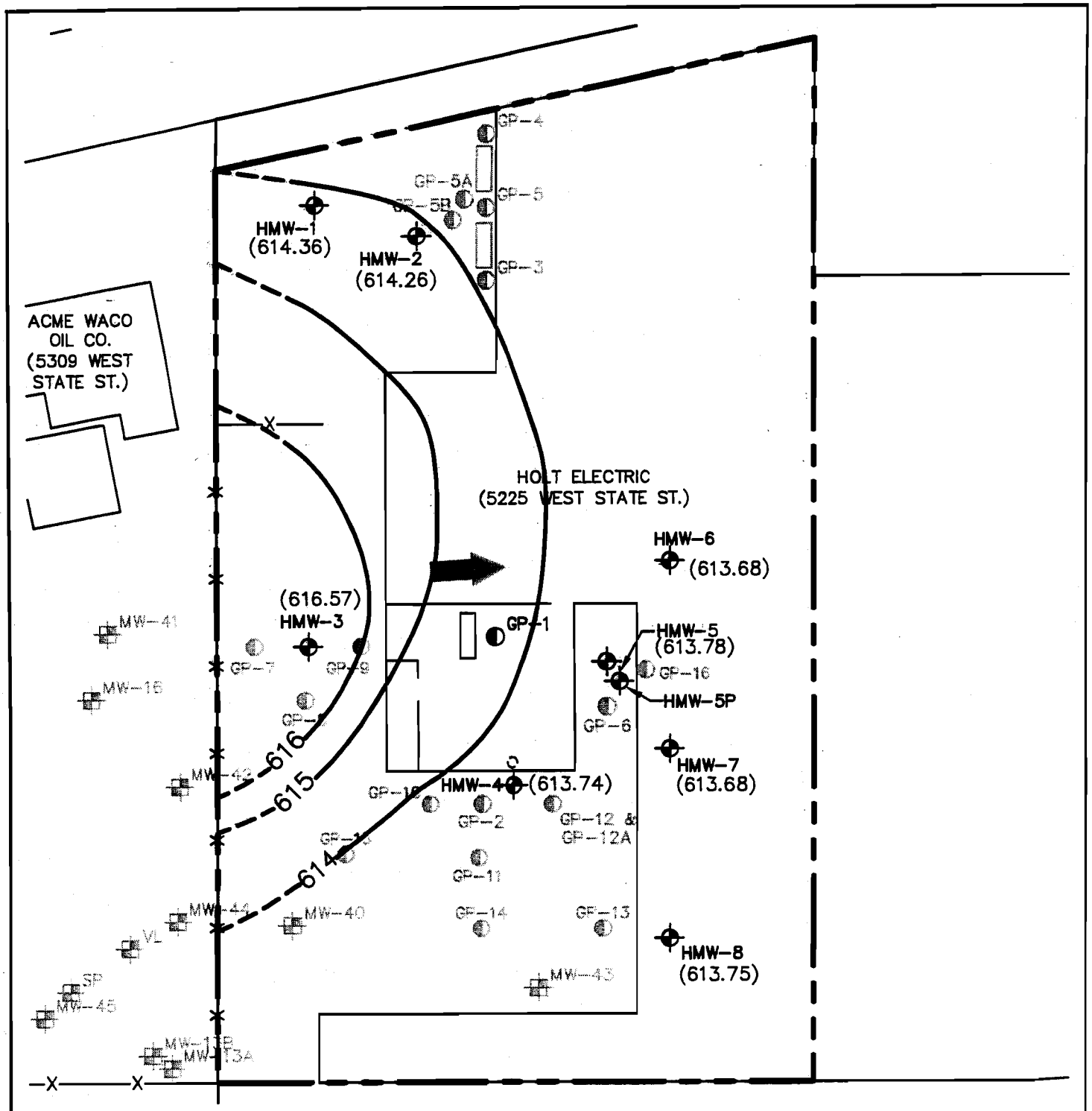

— GROUNDWATER FLOW DIRECTION

— CONTOUR INTERVAL = 1 FOOT

(612.83) — GROUNDWATER ELEVATION (MSL)

N

0 40

1" = 40'

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GROUNDWATER POTENTIOMETRIC SURFACE
MAY 6, 2004
HOLT ELECTRIC
MILWAUKEE, WISCONSIN

Drawn :	RNB	06/17/2004
Checked:	LLA	06/17/2004
Approved:	TWK	06/17/2004
PROJECT NUMBER	058709XE	
FIGURE NUMBER	5	

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Table 2
Soil Probe Laboratory Analytical Results - Detected Volatile Organic Compounds
Holt Electric, 5225 W. State Street, Milwaukee, Wisconsin
STS Project 5-87094XE

Sample Location (Date Sampled)	Depth (feet bgs)	Benzene (ug/kg)	sec-Butyl-benzene (ug/kg)	tert-Butyl-benzene (ug/kg)	n-Butyl-benzene (ug/kg)	cis-1,2-Dichloro-ethene (ug/kg)	trans-1,2-Dichloro-thene (ug/kg)	1,1-Dichloro-ethane (ug/kg)	Ethyl-benzene (ug/kg)	Isopropyl-benzene (ug/kg)	p-Isopropyl-toluene (ug/kg)	Methyl-tert-butyl-ether (ug/kg)	Naphthalene (ug/kg)	n-Propyl-benzene (ug/kg)	Tetrachloro ethene (ug/kg)	Toluene (ug/kg)	1,1,1-Trichloro-ethane (ug/kg)	Trichloro-ethene (ug/kg)	1,2,4-Trimethyl-benzene (ug/kg)	1,3,5-Trimethyl-benzene (ug/kg)	Vinyl chloride (ug/kg)	Total Xylenes (ug/kg)
GP-1 (7-16-02)	10-12	**46.6**	253	77.7	56.1	*254*[C]	55.5	<25.0	81.0	200	69.2	<25.0	<25.0	91.1	<25.0	925	<25.0	<25.0	89.6	137	<25.0	190
GP-2 (7-16-02)	8-10	<25.0	32,800	7,820	7,560	<25.0	<25.0	<25.0	814	13,800	17,200	<250	<250	13,000	<25.0	336	<25.0	<25.0	*11300*[C]	*9500*[C]	<25.0	**8,970**
GP-3 (7-16-02)	10-12	<25.0	NP	NP	NP	NP	NP	NP	<25.0	NP	NP	<25.0	NP	NP	NP	<25.0	NP	NP	<25.0	<25.0	NP	<25.0
GP-4 (7-16-02)	8-10	<25.0	NP	NP	NP	NP	NP	NP	<25.0	NP	NP	<25.0	NP	NP	NP	<25.0	NP	NP	<25.0	<25.0	NP	<25.0
GP-5B (7-16-02)	6-8	<25.0	NP	NP	NP	NP	NP	NP	<25.0	NP	NP	<25.0	NP	NP	NP	<25.0	NP	NP	<25.0	<25.0	NP	<25.0
GP-6 (7-16-02)	10-12	<25.0	465	156	178	<25.0	<25.0	<25.0	49.1	140	337	<25.0	348	188	<25.0	38.8	<25.0	<25.0	73.2	263	<25.0	318
GP-7	2-3	<25.0	<25.0	<25.0	65.3	<25.0	<25.0	<25.0	<25.0	<25.0	36.8	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0
(11/27/02)	7-8	<25.0	62.7	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	34.4	114	<25.0	34.4	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0
GP-8	2-3	<25.0	<25.0	<25.0	67.3	<25.0	<25.0	<25.0	<25.0	<25.0	37.1	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0
(11/27/02)	7-8	<25.0	35.5	<25.0	51.8	<25.0	<25.0	<25.0	35.1	<25.0	49.3	<25.0	28.9	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	46.4
GP-9	2-3	<25.0	<25.0	<25.0	94.5	<25.0	<25.0	<25.0	<25.0	<25.0	73.1	<25.0	<25.0	<25.0	*479*[C]	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	42.6
(11/27/02)	10-12	<25.0	43	<25.0	41	<25.0	<25.0	<25.0	40.9	<25.0	42.9	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0
GP-10	1-3	<25.0	<25.0	<25.0	31.3	<25.0	<25.0	<25.0	43.5	<25.0	<25.0	<25.0	187	<25.0	*172*[C]	64.1	<25.0	<25.0	<25.0	<25.0	<25.0	151
(11/27/02)	10-12	<25.0	<25.0	<25.0	73.6	<25.0	<25.0	<25.0	<25.0	<25.0	46.6	<25.0	66.1	<25.0	*216*[C]	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0
GP-11	2-3	<25.0	<25.0	<25.0	43.1	<25.0	<25.0	<25.0	<25.0	<25.0	32.2	<25.0	36.7	<25.0	*103*[C]	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0
(11/27/02)	8-9	<25.0	200	114	155	<25.0	<25.0	<25.0	<25.0	78.6	512	<25.0	259	478	*147*[C]	<25.0	<25.0	<25.0	262	131	<25.0	50.3
	11-12	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0
GP-12	2-3	<25.0	98	<25.0	48.5	*71.7*[C]	<25.0	<25.0	84.5	99	29.4	<25.0	*452*[C]	107	*956*[C]	152	*910*[C]	<25.0	157	45.9	<25.0	562
(11/27/02)	3-4	<25.0	266	<25.0	173	<25.0	<25.0	<25.0	76.4	<25.0	204	<25.0	*5110*[C]	<25.0	*666*[C]	106	*648*[C]	<25.0	119	98.4	<25.0	285
GP-12A	7-8	<25.0	95.2	<25.0	75.2	<25.0	<25.0	*1400*[C]	37	<25.0	286	<25.0	*4020*[C]	64	<25.0	<25.0	37.8	<25.0	75.1	93.1	<25.0	82.1
GP-13	2-3'	<25	<25	<25	<25	<25	<25	<25	35[Q]	<25	<25	<25	130	<25	<25	84	<25	*220*[BC]	54[Q]	<25	<25	166
	10-11	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<50
GP-14	3-4	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	*41*[QC]	<25	<25	<25	<25	<25	<25	<50
	11-12	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<50
GP-15	2-3'	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	*160*[C]	<25	<25	<25	<25	<25	<25	<50
	10-11'	41[Q]	<25	<25	<25	<25	<25	<25	<25	130	<25	<25	49[Q]	<25	<25	<25	<25	<25	<25	<25	<25	89[Q]
GP-16	2-3'	<25	<25	<25	<25	<25	<25	<25	38[Q]	<25	<25	<25	78	<25	<25	52[Q]	*560*[C]	<25	41[Q]	<25	<25	218
	9-10'	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<50
NR 720 RCLs		5.5	NE	NE	NE	NE	NE	NE	2,900	NE	NE	NE	NE	NE	NE	1500	NE	NE	NE	NE	NE	4,100
Industrial Generic RCLs[B]		NE	NE	NE	NE	1,300,000	3,200,000	2,300,000	NE	NE	NE	10,000,000	440,000	NE	33,000	NE	1,200	220	320,000	190,000	870	NE
Soil to GW Generic RCL[C]		NE	NE	NE	NE	28	100	335	NE	NE	NE	NA	351	NE	4	NE	284	3.6	7,573	3,520	0.13	NE

Notes:

ug/kg = micrograms per kilogram NE= Not Established NA=Not Applicable NP=Not Performed bgs = below ground surface

NR 720 RCLs = Wisconsin Administrative Code Nr720.09 Table 1 for protection of groundwater-Exceedances are shown by bold font.

[A] Non Industrial Generic RCLs - Soil screening levels developed by WDNR using EPA web page - Direct contact values for ingestion or inhalation whichever is lower - Exceedances are shown by italic font.

[B] Industrial Generic RCLs - Soil screening levels developed by WDNR using EPA web page - Direct contact values for ingestion or inhalation whichever is lower - Exceedances are shown by italic font

[C] Soil to Groundwater RCLs - Soil screening level developed by WDNR using EPA web page - Soil to groundwater with dilution factor of 1. Exceedance shown by italic font.

Table 3
Monitoring Well Soil Laboratory Analytical Results - Detected Volatiled Organic Compounds
Holt Electric, 5225 W. State Street, Milwaukee, Wisconsin
STS Project 5-87094XE

Sample Location (Date Sampled)	Depth (feet below ground surface)	Benzene (ug/kg)	sec-Butylbenzene (ug/kg)	tert-Butylbenzene (ug/kg)	n-Butylbenzene (ug/kg)	cis-1,2-Dichloroethene (ug/kg)	trans-1,2-Dichloroethene (ug/kg)	1,1-Dichloroethane (ug/kg)	Ethylbenzene (ug/kg)	Isopropylbenzene (ug/kg)	p-Isopropyltoluene (ug/kg)	Methyl-tert-butyl-ether (ug/kg)	Naphthalene (ug/kg)	n-Propylbenzene (ug/kg)	Tetrachloroethene (ug/kg)	Toluene (ug/kg)	1,1,1-Trichloroethane (ug/kg)	Trichloroethene (ug/kg)	1,2,4-Trimethylbenzene (ug/kg)	1,3,5-Trimethylbenzene (ug/kg)	Vinyl chloride (ug/kg)	Total Xylenes (ug/kg)
HMW-1	3-4	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0
(9-9-02)	9-10	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0
	15-16	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0
HMW-2	2-3	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0
(9-9-02)	9-10	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	*124*[C]	<25.0	<25.0	<25.0	<25.0
	15-16	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0
HMW-3	2-3	<25.0	<25.0	<25.0	47.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	*72*[C]	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0
(9-9-02)	8-9	<25.0	<25.0	<25.0	47.0	<25.0	<25.0	<25.0	30.6	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	31.2	<25.0	<25.0	<25.0	<25.0	<25.0	38.2
	18-19	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0
HMW-4	2-3	<25.0	44.6	<25.0	47.4	<25.0	<25.0	<25.0	<25.0	26.6	30.7	<25.0	<25.0	<25.0	*134*[C]	<25.0	204	<25.0	<25.0	<25.0	<25.0	<25.0
(9-9-02)	8-9	<25.0	24,200	15,200	9,260	<250	<250	<250	1,830	8,660	15,900	325	<250	9,740	<250	<25.0	<250	<250	*53400*[C]	27,700	<25.0	**4,730**
	17-18	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0
HMW-5	3-4	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	39.0	<25.0	<25.0	<25.0	*780*[C]	<25.0	90.0	<25.0	<25.0	<25.0	<25.0	<25.0
(9-9-02)	4-5	<25.0	1,010	312	781	<25.0	<25.0	43.8	<25.0	237	9,110	<25.0	414	497	*907*[C]	<25.0	*1400*[C]	*53.9*[C]	283	268	<25.0	71.3
	16-17	**383**	<25.0	<25.0	<25.0	57.0	<25.0	<25.0	136	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	828	<25.0	<25.0	<25.0	<25.0	*35.2*[C]	433
HMW-6	2-3	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	*67.4*[C]	<25.0	195	<25.0	<25.0	<25.0	<25.0	<25.0
(12-02-02)	10-12	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0
	19-20	<25.0	<25.0	<25.0	33.2	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0
HMW-7	2-3	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	35.2	<25.0	<25.0	<25.0	311	<25.0	<25.0	<25.0	<25.0	29.9
(12-04-02)	10-12	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0
	18-19	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0
HMW-8	2-3	<25.0	34.5	<25.0	141	<25.0	<25.0	<25.0	<25.0	<25.0	35.7	<25.0	29.5	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	52.1	<25.0	<25.0
(12-03-02)	12-14	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0
	19-20	<25.0	<25.0	<25.0	84.6	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0
NR 720 RCLs		5.5	NE	NE	NE	NE	NE	NE	2,900	NE	NE	NE	NE	NE	NE	1500	NE	NE	NE	NE	NE	4,100
Industrial Generic RCLs[B]		NE	NE	NE	NE	1,700,000	4,200,000	2E+06	NE	NE	NE	NE	540,000	NE	38,000	NE	1,600	260	390,000	230,000	920	NE
Soil to GW Generic RCL[C]		NE	NE	NE	NE	68	268	780	NE	NE	NE	NE	2,850	NE	16.4	NE	1,000	17	6,500	28,800	0.15	NE

Notes:

ug/kg = micrograms per kilogram

NR 720 RCLs = Wisconsin Administrative Code Nr720.09 Table 1 for protection of groundwater-Exceedances are bold.

WDNR Generic RCLs were derived using the US EPA soil screening level web page and state-specific input parameters. Values listed are for the soil to groundwater pathway. - Exceedances are Initalics.

[B] Industrial Generic RCLs - Soil screening levels developed by WDNR using EPA web page - Direct contact values for ingestion or inhalation whichever is lower - Exceedances are in Italics.

[C] Soil to Groundwater RCLs - Soil screening level developed by WDNR using EPA web page - Soil to groundwater with dilution factor of 1

NE= Not Established

NA=Not Applicable

Table 4
Soil Laboratory Analytical Results - Metals
Holt Electric, Milwaukee, Wisconsin
STS Project No, 5-87094XE

Well Location	Sample Depth	Arsenic (mg/kg)	Barium (mg/kg)	Cadmium (mg/kg)	Chromium (mg/kg)	Lead (mg/kg)	Mercury (mg/kg)	Selenium (mg/kg)	Silver (mg/kg)
GP-13	2-3'	**13**	420	1.4	19	**680**	1.0	1.9	0.38
	10-11'	**4.8**	17	0.66	7.0	35	0.015	<0.42	0.042[Q]
GP-14	3-4'	**72**	11,000	4.9	280	**4,700**	0.36	1.4	1.3
	11-12'	**4.9**	62	0.43	15	28	0.1	1.3[Q]	0.040[Q]
GP-15	2-3'	**4.2**	26	0.097[Q]	13	8.5	0.025	0.93[Q]	0.027[Q]
	10-11'	**5.3**	72	0.55	17	21	0.11	1.3[Q]	0.042[Q]
GP-16	2-3'	**4.9**	340	0.31	12	55	0.3	1.2[Q]	0.043[Q]
	9-10'	**1.6**	4.1	0.11[Q]	2.5	24	0.0023[Q]	<0.40	0.029[Q]
NR 720 Industrial RCL [A]		1.6	NE	510	NA	500	NE	NE	NE
ndustrial Generic RCLs [B]		1.9	71,500	1,020	1,530,000	NE	NE	5,110	5,110

mg/kg= milligrams per kilogram

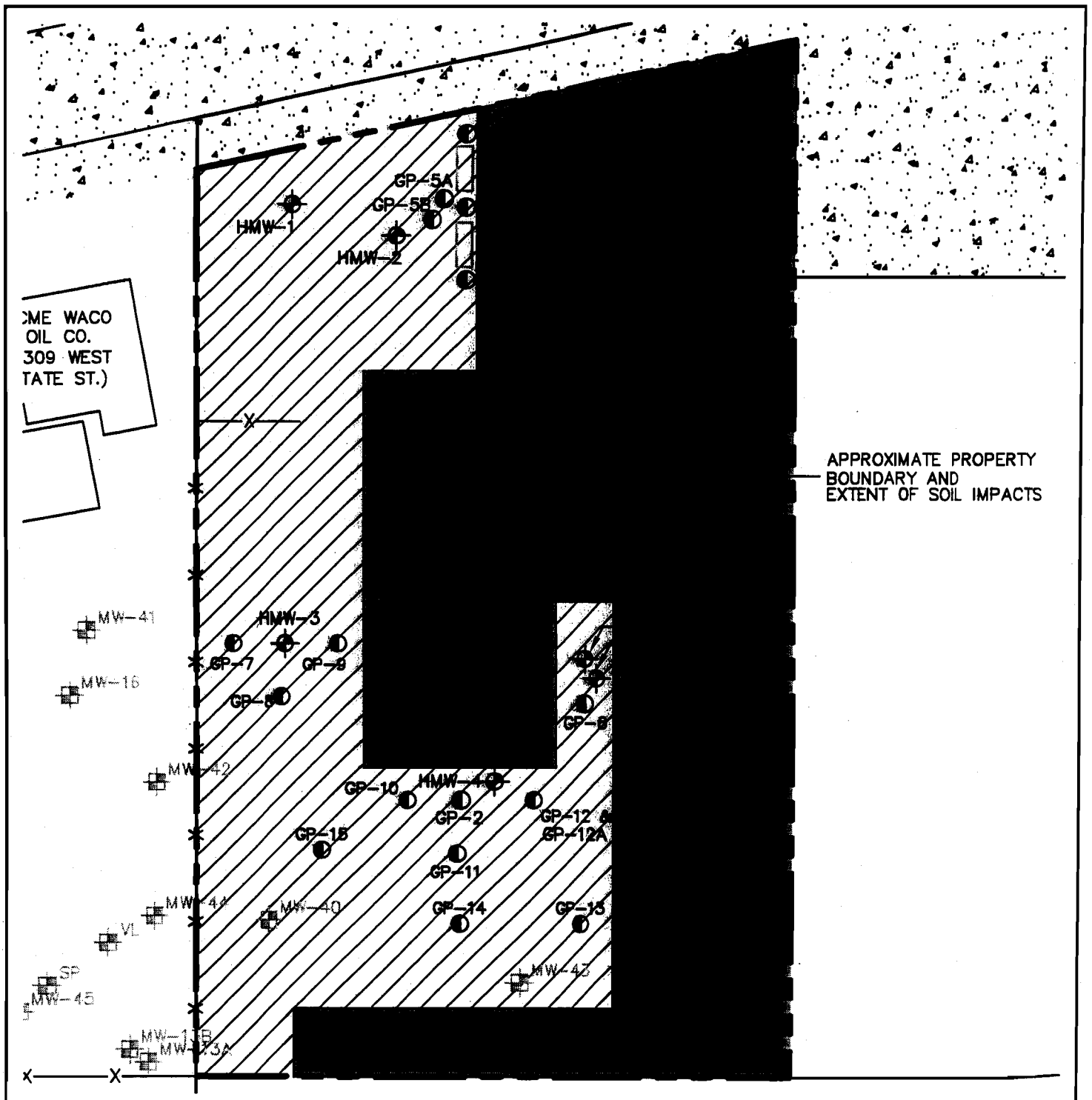
Q - Concentration is between the method detection limit and the practical quantitation limit.

[A] NR 720.111 Table 2 Residual Contaminant Level (RCL) for Industrial site. Exceedances are shown by bold font.

[B] Industrial Generic RCLs - Soil screening levels developed by using EPA web page with WDNR defaults. Values are for ingestion - Exceedances are shown by italic font.

NA = Not Applicable

NE = Not established



HMW-3 NR141 MONITORING WELLS, P DENOTES PIEZOMETER

GP-1 SOIL PROBE BORING

APPROXIMATE PROPERTY BOUNDARY AND EXTENT OF SOIL IMPACTS

ASPHALT

BUILDING

CONCRETE

N

0 40

1" = 40'

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EXTENT OF SOIL ABOVE GENERIC RCLS
HOLT ELECTRIC
5225 W. STATE ST.
MILWAUKEE, WISCONSIN

Drawn:	RNB	06/17/2004
Checked:	LLA	06/17/2004
Approved:	TWK	06/17/2004
PROJECT NUMBER	058709XE	
FIGURE NUMBER	8	

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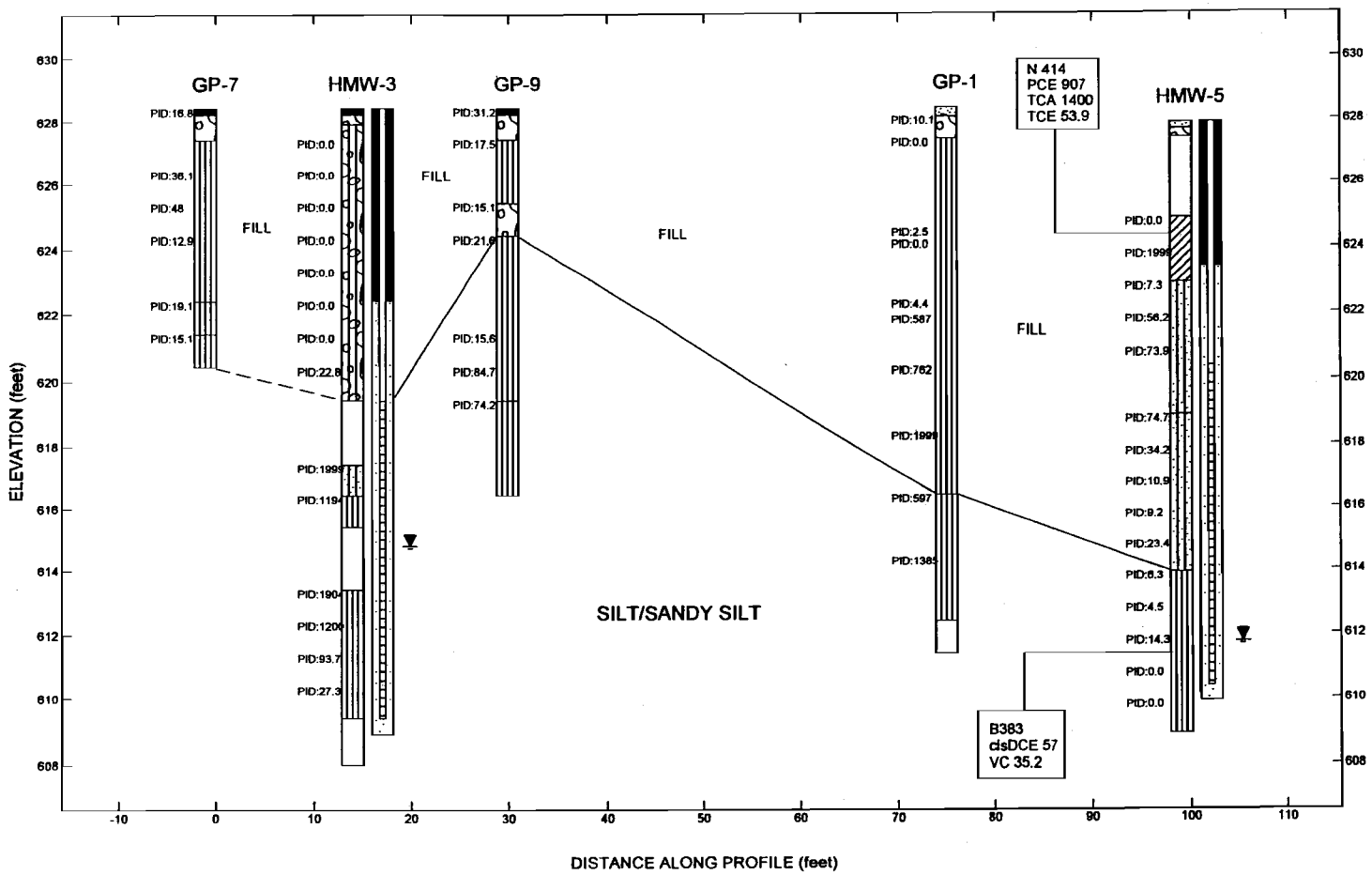
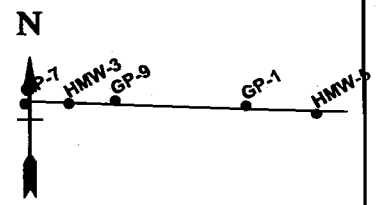
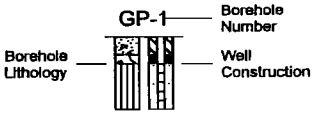


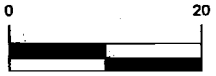


Site Map Scale 1 Inch equals 65 feet

Explanation



Water Level Reading on .



Vertical Exaggeration: 3.5x

Lithology Graphics

- Concrete
- USCS Poorly-graded Gravel
- USCS Silt
- Asphalt
- USCS Silty Gravel
- USCS Silty Sand
- USCS Low Plasticity Clay

1999 - PID Readings in instrument units

Detected VOCs in Soil Exceeding RCLs in micrograms per kilogram
PCE = Tetrachloroethene
B = Benzene
cisDCE = cis-1,2-dichloroethene
N = Naphthalene
VC = Vinyl Chloride
TCA = 1,1,1-trichloroethene
TCE = Trichloroethene

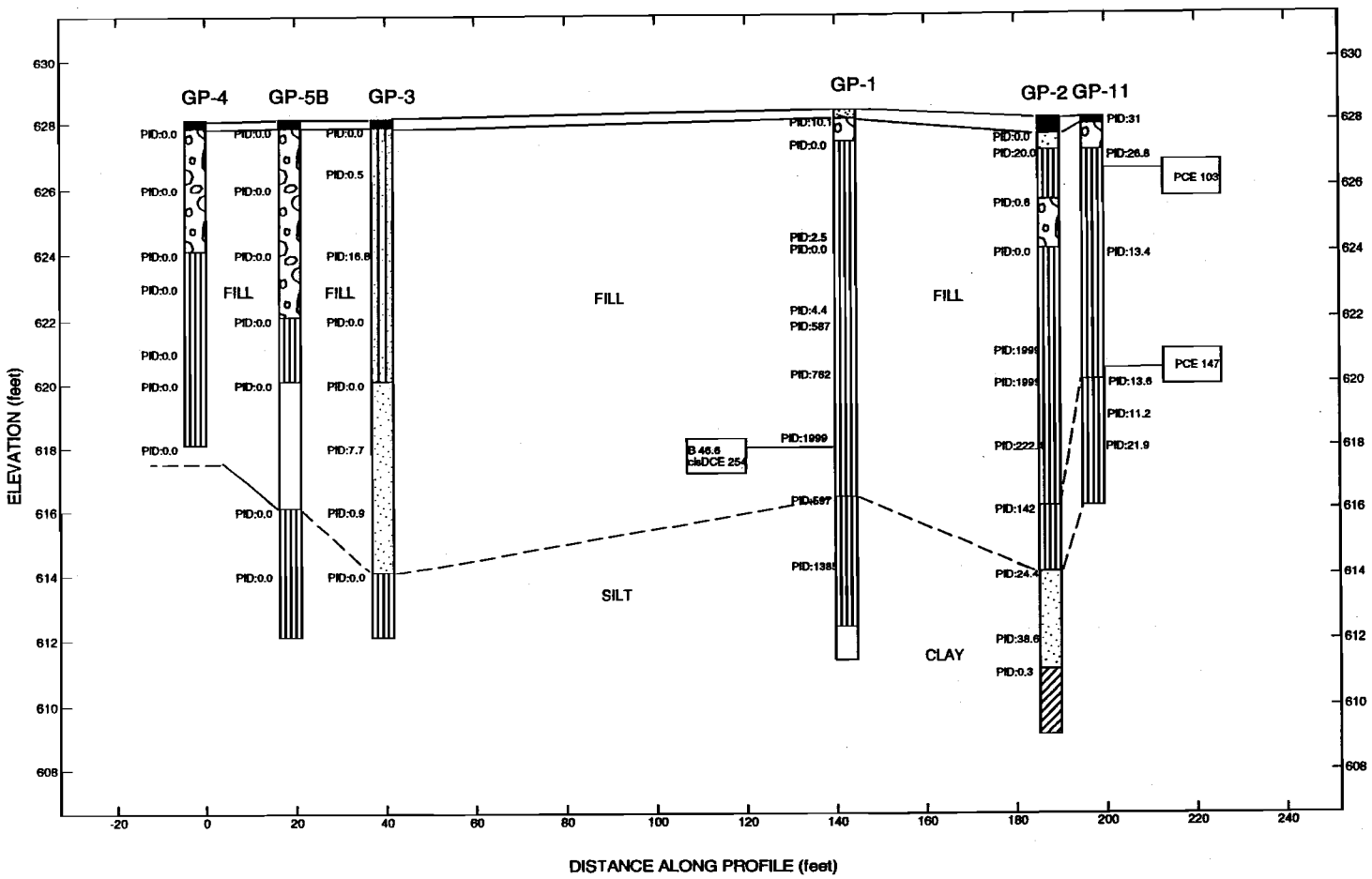
STS Consultants Ltd.

Cross Section A-A'
Looking North A-A'

Holt Electric

JOB NUMBER	FIGURE NUMBER
5-87094XE	3

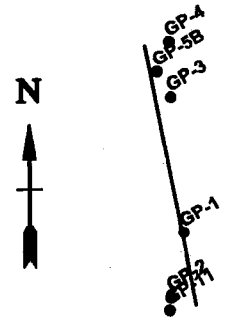
FENCE-LLA2 87094XE.GPJ WI_DNROLD.GDT 7/21/03



Lithology Graphics

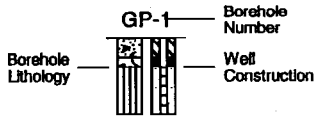
- Concrete
- USCS Poorly-graded Gravel
- USCS Silt
- Asphalt
- USCS Poorly-graded Sand
- USCS Low Plasticity Clay
- USCS Silty Sand
- No Recovery

Detected VOCs in Soil Exceeding RCLs in micrograms per kilogram
B = Benzene
PCE = Tetrachloroethane
cisDCE = cis-1,2-dichloroethene



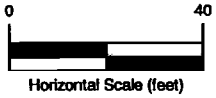
Site Map Scale 1 inch equals 145 feet

Explanation



Water Level Reading at time of drilling.

Water Level Reading on .



Vertical Exaggeration: 7.5x

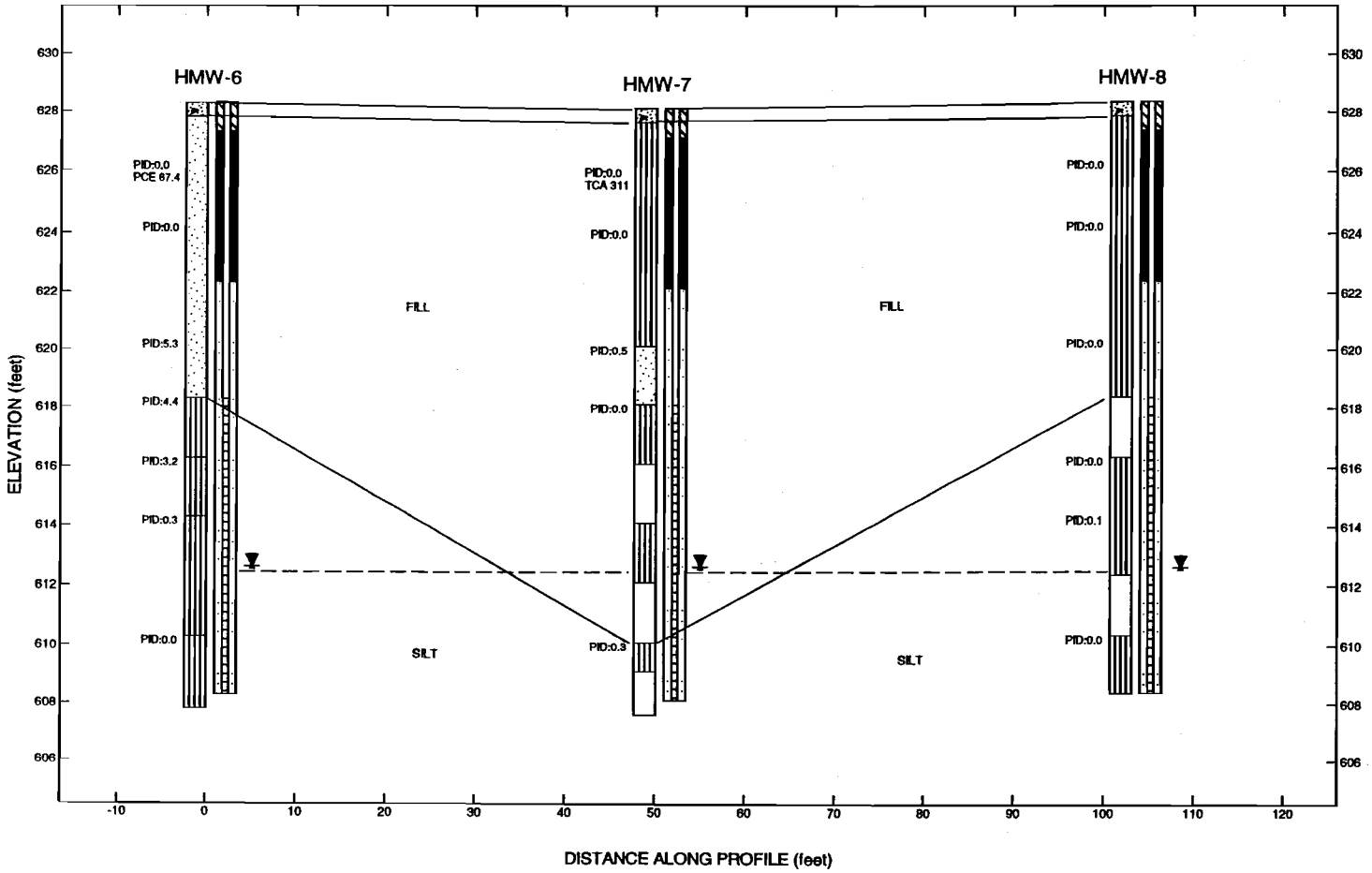
STS Consultants Ltd.

Cross Section B-B'
Looking East

Holt Electric

JOB NUMBER	FIGURE NUMBER
5-87094XE	4

FENCE-LLA2 87094XE.GPJ WI_DNROLD.GDT 7/21/03



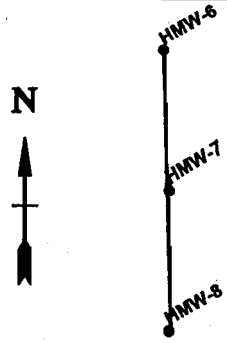
Lithology Graphics

Concrete

USCS Poorly-graded Sand

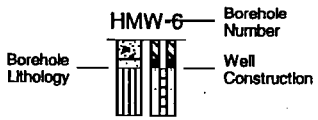
USCS Silt

Detected VOCs in Soil Exceeding RCLs in micrograms per kilogram
PCE = Tetrachloroethene
TCA = 1,1,1-trichloroethane



Site Map Scale 1 inch equals 70 feet

Explanation



Water Level Reading at time of drilling.

Water Level Reading on .

Vertical Exaggeration: 3.5x

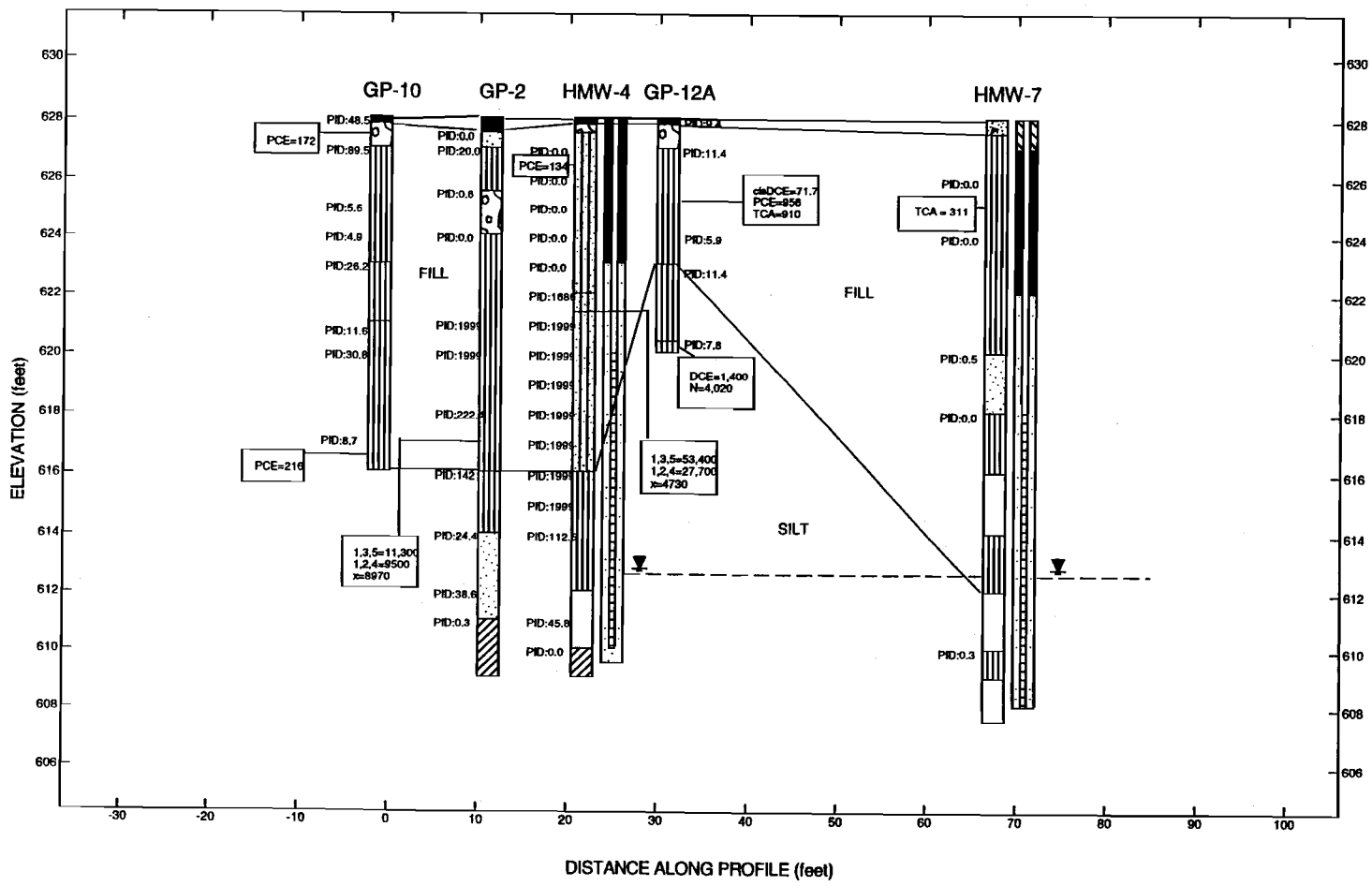
STS Consultants Ltd.

Cross Section C-C'
Looking East

Holt Electric

JOB NUMBER	FIGURE NUMBER
5-87094XE	5

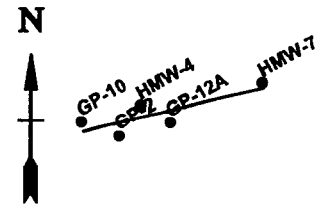
FENCE-LLA2 87094XE.GPJ WI_DNROLD.GDT 7/21/03



Lithology Graphics

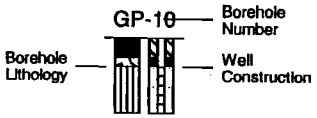
- Asphalt
- USCS Low Plasticity Clay
- USCS Poorly-graded Gravel
- USCS Silty Sand
- USCS Silt
- Concrete
- USCS Poorly-graded Sand
- No Recovery

Detected VOCs in Soil Exceeding RCLs in micrograms per kilogram
PCE = Tetrachloroethene
1,3,5 = 1,3,5-trimethylbenzene
1,2,4 = 1,2,4-trimethylbenzene
DCE = 1,1-dichloroethene
N = Naphthalene
X = Xylenes (total)
TCA = 1,1,1-trichloroethane



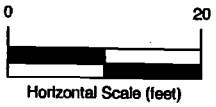
Site Map Scale 1 inch equals 70 feet

Explanation



Water Level Reading at time of drilling.

Water Level Reading on .



Vertical Exaggeration: 3.5x

STS Consultants Ltd.

Cross Section D-D'
Looking North

Holt Electric

JOB NUMBER	FIGURE NUMBER
5-87094XE	6

FENCE-LLA2 87094XE.GPJ WI_DNROLD.GDT 7/21/03

Date: June 29, 2004

Site Name: Holt Electric

Site Address: 5225 West State Street
Milwaukee, Wisconsin 53208

Responsible Party: Revere Electric

Address: 2501 W. Washington

Chicago, Il 60612

I, the above named responsible party, certify that the attached legal description (s) is/are complete and accurate for all of the property(ies) within or partially within the contaminated site's boundaries that have groundwater contamination that exceeds ch. NR 140 enforcement standards at the time of this case closure request.

Signature

4

Document Number

Deed Restriction

Document Title

08893326

DOC.# 08893326

REGISTER'S OFFICE | SS
Milwaukee County, WI|

RECORDED 10/29/2004 01:14PM

JOHN LA FAVE
REGISTER OF DEEDS

AMOUNT:17.00

Recording Area

Name and Return Address

Starck Associates II LLC
5225 W. State St
Milwaukee, Wi 53208

Parcel Identification Number (PIN)

This information must be completed by submitter: document title, name & return address, and PIN (if required). Other information such as the granting clauses, legal description, etc. may be placed on this first page of the document or may be placed on additional pages of the document. Note: Use of this cover page adds one page to your document and $2.00 to the recording fee. Wisconsin Statutes 59.43(2m) WRDA 2/99

Document Number	DEED RESTRICTION

Declaration of Restrictions

Recording Area
Name and Return Address
Starck Associates II LLC 5225 W. State Street Milwaukee, Wisconsin 53208

In Re: The West 150 feet, measured on the North line of the Lot, of Lot 3, in Block 8 of the Assessor's Plat No. 126, in the Northwest ¼of Section 26, in Town 7 North, Range 21 East, in the City of Milwaukee, County of Milwaukee, State of Wisconsin, also described as that part of the above-mentioned ¼ Section commencing at a point in the North line of the right-of-way of the Chicago, Milwaukee, St. Paul and Pacific Railroad, 506.18 feet south 89° 31' West of its intersection with the East line of the said ¼ Section; thence South 89° 31' West along the North line of said right-of-way 147.5 feet to a point, thence North and parallel to the East line of said ¼ Section, 319.26 feet to a point in the center line of West State Street; thence North 78° 49' East along the center line of West State Street, 150 feet to a point; thence South and parallel to the East line of said ¼ section, 347.14 feet to the place of commencement. Excepting the Northerly 33' thereof dedicated for street purposes.

STATE OF WISCONSIN)
) ss
COUNTY OF Milwaukee)

WHEREAS, Starck Associates II LLC is the owner of the above described property.

WHEREAS, fill soils containing volatile organic compound and metals have been used historically to fill on this property, and as of 2004 when soil samples were collected on this property, volatile organic compound and metals contaminated soil remained under the entire property as depicted on Tables 2, 3 and 4 and Figures 6 and 7 (attached).

WHEREAS, it is the desire and intention of the property owner to impose on the property restrictions which will make it unnecessary to conduct further soil remediation activities on the property at the present time.

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:

The property described above may not be used or developed for a residential, commercial, agricultural or other non-industrial use, unless (at the time that the non-industrial use is proposed) an investigation is conducted, to determine the degree and extent of VOC and metal contamination that remains on the property, and remedial action is taken as necessary to meet all applicable non-industrial soil cleanup standards. If soil that remains on the property in the location or locations described above is

excavated in the future, it will have to be sampled and analyzed, may be considered solid or hazardous waste if residual contamination remains, and must be stored, treated and disposed in compliance with applicable statutes and rules.

The most recent soil samples that were collected on this property contained arsenic and lead that exceeded NR 720.11, Table 2 soil standards in concentrations that exceeded the non-industrial RCLs in NR 720.11, Table 2 Wis. Adm. Code.

The asphalt paved surfaces and building that existed on the above-described property on the date that this deed restriction was signed form a barrier that must be maintained in order to prevent direct contact with residual soil contamination above allowable residual contamination levels that might otherwise pose a threat to human health. These structures are also required in order to minimize the infiltration of water and prevent additional groundwater contamination that would violate the groundwater quality standards in ch. NR 140, Wis. Adm. Code. The asphalt paved surfaces and building shall be maintained on the above-described property as depicted on the attached map (Figure 8), unless another barrier with an infiltration rate of 10^{-7} cm/sec or less, is installed and maintained in their place. The existing structures, and any replacement barrier with an infiltration rate of 10^{-7} cm/sec or less, shall be maintained on the above-described property in compliance with the Holt Electric Asphalt Maintenance plan dated June 29, 2004 (appended hereto) that was submitted to the Wisconsin Department of Natural Resources by Revere Electric as required by section NR 724.13(2), Wis. Adm. Code.

In addition, the following activities are prohibited on any portion of the above-described property where an impervious cap has been placed or where impervious surfaces exist above soil contamination that is above allowable residual contamintant levels (Figure 8), unless prior written approval has been obtained from the Wisconsin Department of Natural Resources or its successor or assign: (1) Excavating or grading of the land surface; (2) Filling on capped areas and areas with pervious surfaces; (3) Plowing for agricultural cultivation; and (4) Construction or installation of a building or other structure with a foundation that would sit on or be placed within the cap or impervious surface.

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 decent, devise, purchase or otherwise. This restriction inures to the benefit of 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 restrictions can be extinguished, an affidavit, attached to a copy of the Department's written determination, may be recorded by the property owner or other interested party to give notice that this deed restriction, or portions of this deed restriction, are no longer binding.

By signing this document, Jeff Starck asserts that he or she is duly authorized to sign this document on behalf of Starck Associates II LLC.

IN WITNESS WHEREOF, the owner of the property has executed this Declaration of Restrictions, this 13 day of Oct, 2004.

Signature: Jeffrey P Starck

Printed Name: Jeffrey P Starck

Subscribed and sworn to before me this 13 day of Oct, 2004

Notary Public, State of WI
My commission Expires 2-17-08

NOTARY PUBLIC CHRISTOPHER J. HAMILTON STATE OF WISCONSIN

This document was drafted by STS Consultants, Ltd.

REGISTER OF DEEDS
JOHN LA FAVE
12/15/2004 11:05AM

08916987 RESTRICTIONS $35.00

0

RECORDING FEE: $35.00

TOTAL: $35.00

CASH: $35.00

PHONE # 278-4005
19292

Table 2
Soil Probe Laboratory Analytical Results - Detected Volatile Organic Compounds
Holt Electric, 5225 W. State Street, Milwaukee, Wisconsin
STS Project 5-87094XE

Sample Location (Date Sampled)	Depth (feet bgs)	Benzene (ug/kg)	sec-Butyl-benzene (ug/kg)	tert-Butyl-benzene (ug/kg)	n-Butyl-benzene (ug/kg)	cis-1,2-Dichloro-ethene (ug/kg)	trans-1,2-Dichloro-ethene (ug/kg)	1,1-Dichloro-ethane (ug/kg)	Ethyl-benzene (ug/kg)	Isopropyl-benzene (ug/kg)	p-Isopropyl-toluene (ug/kg)	Methyl-tert-butyl-ether (ug/kg)	Naphthalene (ug/kg)	n-Propyl-benzene (ug/kg)	Tetrachloro ethene (ug/kg)	Toluene (ug/kg)	1,1,1-Trichloro-ethane (ug/kg)	Trichloro-ethene (ug/kg)	1,2,4-Trimethyl-benzene (ug/kg)	1,3,5-Trimethyl-benzene (ug/kg)	Vinyl chloride (ug/kg)	Total Xylenes (ug/kg)
GP-1 (7-16-02)	10-12	46.6	253	77.7	56.1	*254*[C]	55.5	<25.0	81.0	200	69.2	<25.0	<25.0	91.1	<25.0	925	<25.0	<25.0	89.6	137	<25.0	190
GP-2 (7-16-02)	8-10	<25.0	32,800	7,820	7,560	<25.0	<25.0	<25.0	814	13,800	17,200	<250	<250	13,000	<25.0	336	<25.0	<25.0	*11300*[C]	*9500*[C]	<25.0	8,970
GP-3 (7-16-02)	10-12	<25.0	NP	NP	NP	NP	NP	NP	<25.0	NP	NP	<25.0	NP	NP	NP	<25.0	NP	NP	<25.0	<25.0	NP	<25.0
GP-4 (7-16-02)	8-10	<25.0	NP	NP	NP	NP	NP	NP	<25.0	NP	NP	<25.0	NP	NP	NP	<25.0	NP	NP	<25.0	<25.0	NP	<25.0
GP-5B (7-16-02)	6-8	<25.0	NP	NP	NP	NP	NP	NP	<25.0	NP	NP	<25.0	NP	NP	NP	<25.0	NP	NP	<25.0	<25.0	NP	<25.0
GP-6 (7-16-02)	10-12	<25.0	465	156	178	<25.0	<25.0	<25.0	49.1	140	337	<25.0	348	168	<25.0	38.8	<25.0	<25.0	73.2	263	<25.0	318
GP-7 (11/27/02)	2-3	<25.0	<25.0	<25.0	65.3	<25.0	<25.0	<25.0	<25.0	<25.0	36.8	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0
	7-8	<25.0	62.7	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	34.4	114	<25.0	34.4	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0
GP-8 (11/27/02)	2-3	<25.0	<25.0	<25.0	67.3	<25.0	<25.0	<25.0	<25.0	<25.0	37.1	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0
	7-8	<25.0	35.5	<25.0	51.8	<25.0	<25.0	<25.0	35.1	<25.0	49.3	<25.0	28.9	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	46.4
GP-9 (11/27/02)	2-3	<25.0	<25.0	<25.0	94.5	<25.0	<25.0	<25.0	<25.0	<25.0	73.1	<25.0	<25.0	<25.0	*479*[C]	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	42.6
	10-12	<25.0	43	<25.0	41	<25.0	<25.0	<25.0	40.9	<25.0	42.9	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0
GP-10 (11/27/02)	1-3	<25.0	<25.0	<25.0	31.3	<25.0	<25.0	<25.0	43.5	<25.0	<25.0	<25.0	187	<25.0	*172*[C]	64.1	<25.0	<25.0	<25.0	<25.0	<25.0	151
	10-12	<25.0	<25.0	<25.0	73.6	<25.0	<25.0	<25.0	<25.0	<25.0	46.6	<25.0	66.1	<25.0	*216*[C]	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0
GP-11 (11/27/02)	2-3	<25.0	<25.0	<25.0	43.1	<25.0	<25.0	<25.0	<25.0	<25.0	32.2	<25.0	36.7	<25.0	*103*[C]	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0
	8-9	<25.0	200	114	155	<25.0	<25.0	<25.0	<25.0	78.6	512	<25.0	259	478	*147*[C]	<25.0	<25.0	<25.0	262	131	<25.0	50.3
	11-12	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0
GP-12 (11/27/02)	2-3	<25.0	98	<25.0	48.5	*71.7*[C]	<25.0	<25.0	84.5	99	29.4	<25.0	*452*[C]	107	*956*[C]	152	*910*[C]	<25.0	157	45.9	<25.0	562
	3-4	<25.0	266	<25.0	173	<25.0	<25.0	<25.0	76.4	<25.0	204	<25.0	*5110*[C]	<25.0	*666*[C]	106	*648*[C]	<25.0	119	98.4	<25.0	285
GP-12A	7-8	<25.0	95.2	<25.0	75.2	<25.0	<25.0	*1400*[C]	37	<25.0	266	<25.0	*4020*[C]	64	<25.0	<25.0	37.8	<25.0	75.1	93.1	<25.0	82.1
GP-13	2-3'	<25	<25	<25	<25	<25	<25	<25	35[Q]	<25	<25	<25	130	<25	<25	84	<25	*220*[BC]	54[Q]	<25	<25	166
	10-11	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<50
GP-14	3-4	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	*41*[QC]	<25	<25	<25	<25	<25	<25	<50
	11-12	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<50
GP-15	2-3'	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	*160*[C]	<25	<25	<25	<25	<25	<25	<50
	10-11'	41[Q]	<25	<25	<25	<25	<25	<25	<25	130	<25	<25	49[Q]	<25	<25	<25	<25	<25	<25	<25	<25	89[Q]
GP-16	2-3'	<25	<25	<25	<25	<25	<25	<25	38[Q]	<25	<25	<25	78	<25	<25	52[Q]	*560*[C]	<25	41[Q]	<25	<25	218
	9-10'	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<50
NR 720 RCLs		5.5	NE	NE	NE	NE	NE	NE	2,900	NE	NE	NE	NE	NE	NE	1500	NE	NE	NE	NE	NE	4,100
Industrial Generic RCLs[B]		NE	NE	NE	NE	1,300,000	3,200,000	1,800,000	NE	NE	NE	10,000,000	440,000	NE	33,000	NE	1,200,000	220	320,000	190,000	920	NE
Soil to GW Generic RCL[C]		NE	NE	NE	NE	28	100	335	NE	NE	NE	NA	351	NE	4	NE	284	3.6	7,570	3,520	0.15	NE

Notes:

ug/kg = micrograms per kilogram NE= Not Established NA=Not Applicable NP=Not Performed bgs = below ground surface

NR 720 RCLs = Wisconsin Administrative Code Nr720.09 Table 1 for protection of groundwater-Exceedances are shown by bold font.

[A]Non Industrial Generic RCLs - Soil screening levels developed by WDNR using EPA web page - Direct contact values for ingestion or inhalation whichever is lower - Exceedances are shown by italic font.

[B] Industrial Generic RCLs - Soil screening levels developed by WDNR using EPA web page - Direct contact values for ingestion or inhalation whichever is lower - Exceedances are shown by italic font

[C] Soil to Groundwater RCLs - Soil screening level developed by WDNR using EPA web page - Soil to groundwater with dilution factor of 1. Exceedance shown by italic font.

Table 3
Monitoring Well Soil Laboratory Analytical Results - Detected Volatiled Organic Compounds
Holt Electric, 5225 W. State Street, Milwaukee, Wisconsin
STS Project 5-87094XE

Sample Location (Date Sampled)	Depth (feet below ground surface)	Benzene (ug/kg)	sec-Butylbenzene (ug/kg)	tert-Butylbenzene (ug/kg)	n-Butylbenzene (ug/kg)	cis-1,2-Dichloroethene (ug/kg)	trans-1,2-Dichloroethene (ug/kg)	1,1-Dichloroethane (ug/kg)	Ethylbenzene (ug/kg)	Isopropylbenzene (ug/kg)	p-Isopropyltoluene (ug/kg)	Methyl-tert-butyl-ether (ug/kg)	Naphthalene (ug/kg)	n-Propylbenzene (ug/kg)	Tetrachloroethene (ug/kg)	Toluene (ug/kg)	1,1,1-Trichloroethane (ug/kg)	Trichloroethene (ug/kg)	1,2,4-Trimethylbenzene (ug/kg)	1,3,5-Trimethylbenzene (ug/kg)	Vinyl chloride (ug/kg)	Total Xylenes (ug/kg)
HMW-1	3-4	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0
(9-9-02)	9-10	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0
	15-16	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0
HMW-2	2-3	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0
(9-9-02)	9-10	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	*124*[C]	<25.0	<25.0	<25.0	<25.0
	15-16	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0
HMW-3	2-3	<25.0	<25.0	<25.0	47.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	*72*[C]	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0
(9-9-02)	8-9	<25.0	<25.0	<25.0	47.0	<25.0	<25.0	<25.0	30.6	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	31.2	<25.0	<25.0	<25.0	<25.0	<25.0	38.2
	18-19	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0
HMW-4	2-3	<25.0	44.6	<25.0	47.4	<25.0	<25.0	<25.0	<25.0	26.6	30.7	<25.0	<25.0	<25.0	*134*[C]	<25.0	204	<25.0	<25.0	<25.0	<25.0	<25.0
(9-9-02)	8-9	<25.0	24,200	15,200	9,260	<250	<250	<250	1,830	8,660	15,900	325	<250	9,740	<250	<25.0	<250	<250	*53,400*[C]	*27,700*[C]	<25.0	**4,730**
	17-18	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0
HMW-5	3-4	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	39.0	<25.0	<25.0	<25.0	*780*[C]	<25.0	90.0	<25.0	<25.0	<25.0	<25.0	<25.0
(9-9-02)	4-5	<25.0	1,010	312	781	<25.0	<25.0	43.8	<25.0	237	9,110	<25.0	*414*[C]	497	*907*[C]	<25.0	*1400*[BC]	*53.9*[C]	283	268	<25.0	71.3
	16-17	**383**	<25.0	<25.0	<25.0	*57*[C]	<25.0	<25.0	136	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	828	<25.0	<25.0	<25.0	<25.0	*35.2*[C]	433
HMW-6	2-3	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	*67.4*[C]	<25.0	195	<25.0	<25.0	<25.0	<25.0	<25.0
(12-02-02)	10-12	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0
	19-20	<25.0	<25.0	<25.0	33.2	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0
HMW-7	2-3	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	35.2	<25.0	<25.0	<25.0	*311*[C]	<25.0	<25.0	<25.0	<25.0	29.9
(12-04-02)	10-12	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0
	18-19	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0
HMW-8	2-3	<25.0	34.5	<25.0	141	<25.0	<25.0	<25.0	<25.0	<25.0	35.7	<25.0	29.5	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	52.1	<25.0	<25.0
(12-03-02)	12-14	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0
	19-20	<25.0	<25.0	<25.0	84.6	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0
NR 720 RCLs		5.5	NE	NE	NE	NE	NE	NE	2,900	NE	NE	NE	NE	NE	NE	1500	NE	NE	NE	NE	NE	4,100
Industrial Generic RCLs[B]		NE	NE	NE	NE	1,300,000	3,200,000	1.8×10^6	NE	NE	NE	1×10^7	440,000	NE	33,000	NE	1,200,000	220	320,000	190,000	870	NE
Soil to GW Generic RCL[C]		NE	NE	NE	NE	28	100	335	NE	NE	NE	NE	351	NE	4	NE	284	3.6	7,570	3,520	0.13	NE

Notes:

ug/kg = micrograms per kilogram

NR 720 RCLs = Wisconsin Administrative Code Nr720.09 Table 1 for protection of groundwater-Exceedances are bold.

WDNR Generic RCLs were derived using the US EPA soil screening level web page and state-specific input parameters. Values listed are for the soil to groundwater pathway. - Exceedances are Initalics.

[B] Industrial Generic RCLs - Soil screening levels developed by WDNR using EPA web page - Direct contact values for ingestion, inhalation or soil saturation whichever value is lower - Exceedances are in italics.

[C] Soil to Groundwater RCLs - Soil screening level developed by WDNR using EPA web page - Soil to groundwater with dilution factor of 1, calculated to be a PAL-based RCL.

NE= Not Established

NA=Not Applicable

Table 4
Soil Laboratory Analytical Results - Metals
Holt Electric, Milwaukee, Wisconsin
STS Project No, 5-87094XE

Well Location	Sample Depth	Arsenic (mg/kg)	Barium (mg/kg)	Cadmium (mg/kg)	Chromium (mg/kg)	Lead (mg/kg)	Mercury (mg/kg)	Selenium (mg/kg)	Silver (mg/kg)
GP-13	2-3'	**13**	420	1.4	19	**680**	1.0	1.9	0.38
	10-11'	**4.8**	17	0.66	7.0	35	0.015	<0.42	0.042[Q]
GP-14	3-4'	**72**	11,000	4.9	280	**4,700**	0.36	1.4	1.3
	11-12'	**4.9**	62	0.43	15	28	0.1	1.3[Q]	0.040[Q]
GP-15	2-3'	**4.2**	26	0.097[Q]	13	8.5	0.025	0.93[Q]	0.027[Q]
	10-11'	**5.3**	72	0.55	17	21	0.11	1.3[Q]	0.042[Q]
GP-16	2-3'	**4.9**	340	0.31	12	55	0.3	1.2[Q]	0.043[Q]
	9-10'	**1.6**	4.1	0.11[Q]	2.5	24	0.0023[Q]	<0.40	0.029[Q]
NR 720 Industrial RCL [A]		1.6	NE	510	NA	500	NE	NE	NE

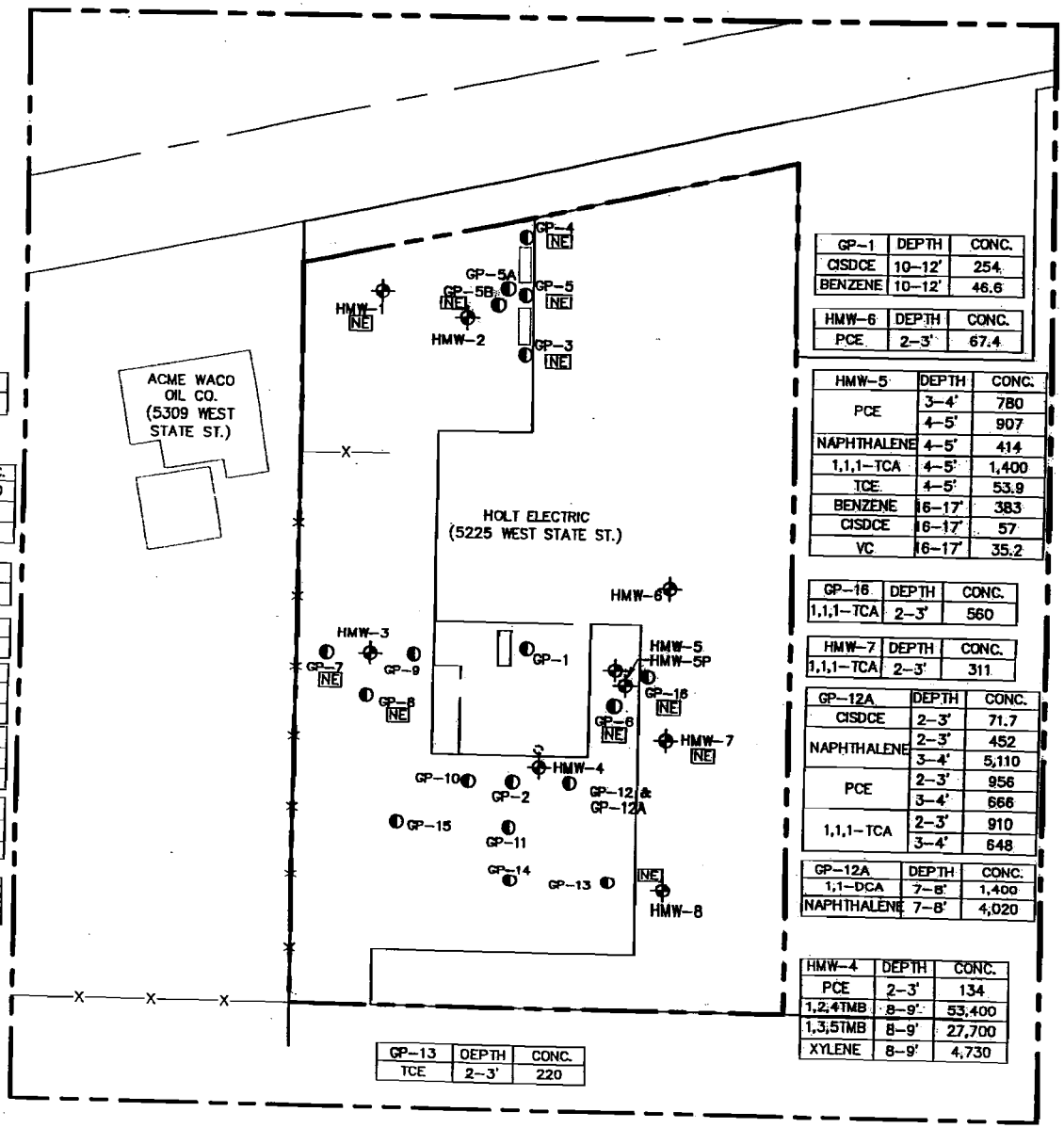
mg/kg= milligrams per kilogram

Q - Concentration is between the method detection limit and the practical quantitation limit.

[A] NR 720.111 Table 2 Residual Contaminant Level (RCL) for Industrial site. Exceedances are shown by bold font.

NA = Not Applicable

NE = Not established



HMW-2	DEPTH	CONC.
TCE	9–10'	124

GP-2	DEPTH	CONC.
1,2,4TMB	10–12'	11,300
1,3,5TMB	10–12'	9,500
XYLENE	10–12'	8,970

GP-9	DEPTH	CONC.
PCE	2–3'	479

HMW-3	DEPTH	CONC.
PCE	2–3'	72

GP-10	DEPTH	CONC.
PCE	1–3'	172
	10–12'	216

GP-15	DEPTH	CONC.
PCE	2–3'	160
BENZENE	10–11'	41

GP-11	DEPTH	CONC.
PCE	2–3'	103
	8–9'	147

GP-14	DEPTH	CONC.
PCE	3–4'	41

GP-13	DEPTH	CONC.
TCE	2–3'	220

GP-1	DEPTH	CONC.
CISDCE	10–12'	254
BENZENE	10–12'	46.6

HMW-6	DEPTH	CONC.
PCE	2–3'	67.4

HMW-5	DEPTH	CONC.
PCE	3–4'	780
	4–5'	907
NAPHTHALENE	4–5'	414
1,1,1–TCA	4–5'	1,400
TCE	4–5'	53.9
BENZENE	16–17'	383
CISDCE	16–17'	57
VC	16–17'	35.2

GP-16	DEPTH	CONC.
1,1,1–TCA	2–3'	560

HMW-7	DEPTH	CONC.
1,1,1–TCA	2–3'	311

GP-12A	DEPTH	CONC.
CISDCE	2–3'	71.7
NAPHTHALENE	2–3'	452
	3–4'	5,110
PCE	2–3'	956
	3–4'	666
1,1,1–TCA	2–3'	910
	3–4'	648

GP-12A	DEPTH	CONC.
1,1–DCA	7–8'	1,400
NAPHTHALENE	7–8'	4,020

HMW-4	DEPTH	CONC.
PCE	2–3'	134
1,2,4TMB	8–9'	53,400
1,3,5TMB	8–9'	27,700
XYLENE	8–9'	4,730

LEGEND

HMW–6 MONITORING WELL

HMW–4 SOIL PROBE BORING

NE NO EXCEEDANCES

1,1,1–TCA = 1,1,1–TRICHOROETHANE
1,2,4–TMB = 1,2,4 TRIMETHYLBENZENE
1,3,5–TMB = 1,3,5–TRIMETHYLBEZENE
TCE = TRICHLOROETHENE
CISDCE = CIS 1,2 DICHLOROETHENE
PCE = TETRACHLOROETHENE

1. ALL DEPTHS IN FEET BELOW GROUND SURFACE.
2. RCLs INCLUDE NR720.09 TABLE 1; GENERIC INDUSTRIAL DIRECT CONTACT SCREENING LEVELS (INHALATION, INGESTION OR SOIL SATURATION WHICHEVER WAS LOWER) USING EPA WEBSITE AND WDNR DEFAULTS; AND SOIL TO GROUND WATER SCREENINGS LEVELS USING THE EPA WEBSITE AND WDNR DEFAULTS.
3. SAMPLE LOCATIONS WITHOUT RESULTS DID NOT HAVE DETECTED VOCS ABOVE RCLS.

N

0 40
1" = 40'

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DETECTED VOLATILE ORGANIC COMPOUNDS IN SOIL EXCEEDING RCLS
HOLT ELECTRIC
5225W STATE ST.
MILWAUKEE, WISCONSIN

Drawn:	RNB	06/17/200
Checked:	LLA	06/17/200
Approved:	TWK	06/17/200
PROJECT NUMBER	058709XE	
FIGURE NUMBER	6	

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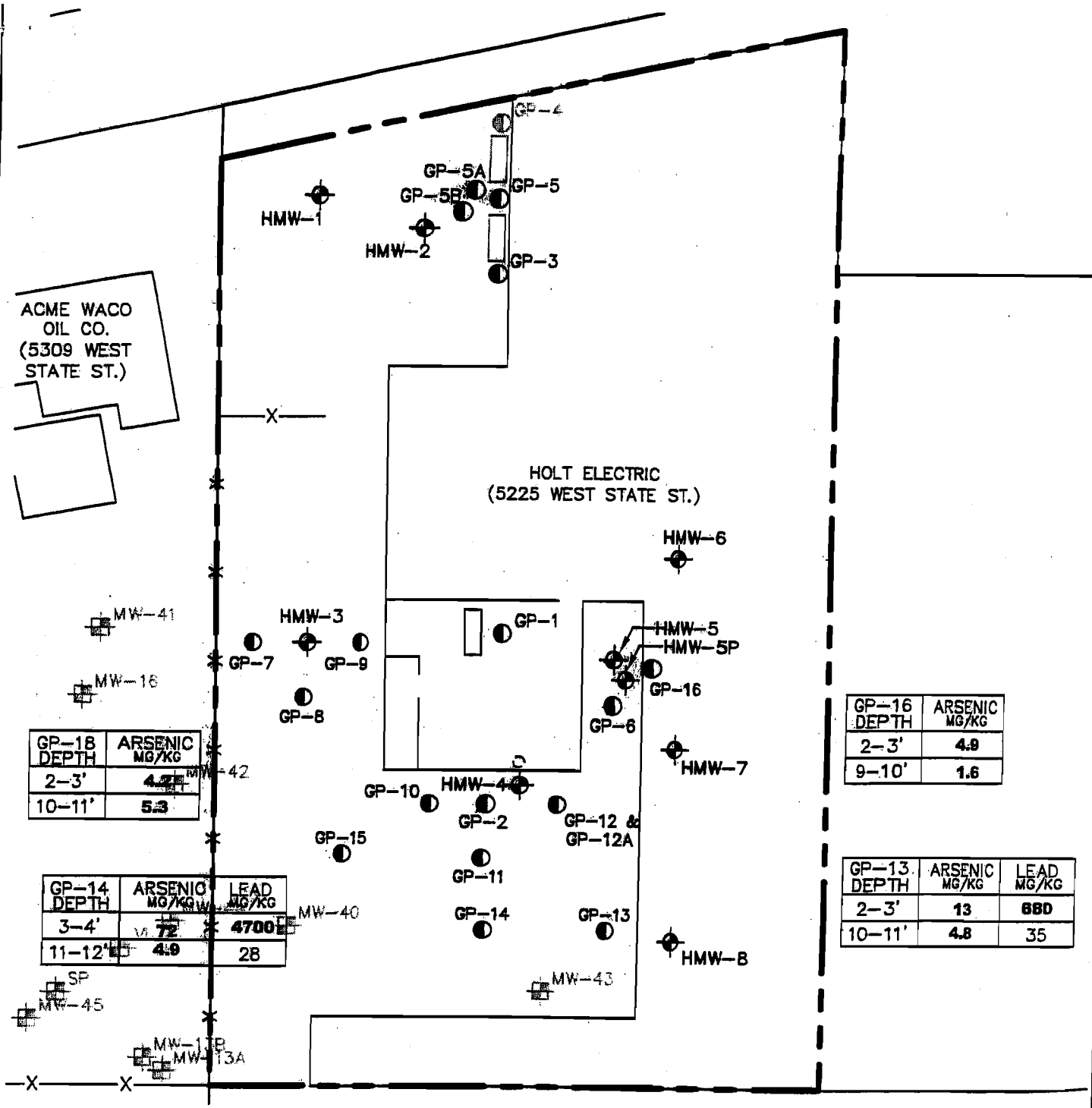

GP-18 DEPTH	ARSENIC MG/KG
2-3'	**4.7**
10-11'	**5.3**

GP-14 DEPTH	ARSENIC MG/KG	LEAD MG/KG
3-4'	**72**	**4700**
11-12'	**4.9**	28

GP-16 DEPTH	ARSENIC MG/KG
2-3'	**4.9**
9-10'	**1.6**

GP-13 DEPTH	ARSENIC MG/KG	LEAD MG/KG
2-3'	**13**	**680**
10-11'	**4.8**	35

BOLD VALUES EXCEED NR 720.09 TABLE 1 RCLS
MG/KG - MILLIGRAMS PER KILOGRAM

HMW-3 NR141 MONITORING WELLS, P DENOTES PIEZOMETER

GP-1 SOIL PROBE BORING

APPROXIMATE PROPERTY BOUNDARY

N

0 40
1" = 40'

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LEAD AND ARSENIC CONCENTRATIONS IN SOIL
HOLT ELECTRIC
5225 W. STATE STREET
MILWAUKEE, WISCONSIN

Drawn:	RNB	06/17/2004
Checked:	LLA	06/17/2004
Approved:	TWK	06/17/2004
PROJECT NUMBER	058709XE	
FIGURE NUMBER	7	

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September 20, 2004

Mr. Jeff Starck
Starck Associates
5225 West State Street
Milwaukee, Wisconsin 53208

RE: Holt Electric Pavement Maintenance Plan, 5225 West State Street, Milwaukee, Wisconsin – STS Project No. 5-87094XE

Dear Mr. Starck:

STS Consultants has completed the pavement maintenance plan for Holt Electric located at 5225 West State Street, Milwaukee, Wisconsin (site). The purpose of the maintenance plan is to provide routine inspection of the paved areas for integrity and allow for needed repairs in a timely manner.

Background
Volatile organic compound (VOC), lead and arsenic contaminated soil is present along the west portion of the site in an area currently paved with asphalt. The asphalt pavement is a direct contact barrier for the lead and arsenic contamination and also prevents infiltration of precipitation through the VOC contaminated soil.

STS visited the site on June 25, 2004 to conduct an initial visual inspection of the pavement for purposes of suitability of the use of the pavement for a cap at the site. The western portion of the site is covered with bituminous (asphalt) pavement. A small portion near the loading area is covered in concrete pavement. The concrete pavement and the asphalt pavement in the northwest corner of the site are in very good to excellent condition with limited to no visible signs of distress observed. The asphalt pavement along the western portion of the site is generally in good to very good condition. The following summarizes the condition observed:

- Patching associated with past trenching activity
- Longitudinal/transverse cracking
- Two areas of alligator cracking
- Two small areas of depression

Areas of distress and the general condition of the pavement were documented with photos taken during the site visit. A photo log is attached to this letter.

The patching for the trenching are classified as low severity based on the condition and deflection of the patching. The edges of the patching had been sealed. The sealant had deteriorated at some locations, likely due to age and weathering.

The majority of the longitudinal and transverse cracking is classified as medium severity. Some longitudinal and transverse cracking had also been sealed. The sealant condition for the longitudinal and transverse cracking was in a similar condition to the patching edges.

The alligator cracking observed at the site is classified as medium severity. The cracking has developed into a pattern of cracks that are lightly spalled in areas.

The observed areas of depression in the asphalt pavement are classified as low severity with depths of less than one inch. While not a concern for direct contact or infiltration issues, areas of depression are often created by settlement of the foundation soil or sub-base or a result of improper construction. Depressed areas can lead to breaks in the pavement often resulting in potholes.

PAVEMENT MAINTENANCE PLAN

Inspection and Evaluation

Regular evaluation of the pavement surfaces with respect to surface condition, strength and drainage is the first step in pavement maintenance. In order to accomplish this, we suggest the following steps be taken.

- The pavement should be inspected once per calendar year; either in the Spring or in the Fall.
- The inspections should be scheduled either after or before the ground thaws or freezes.
- Inspections should be conducted by completing a thorough walkover of the site to allow for observations of small cracks and defects in the surface.

A log of inspections should be maintained. The following information should be including in the inspection log:

- Date and time of Inspection
- Weather conditions
- Person(s) conducting inspection
- Condition of pavement
- Areas of distress

When areas of distress are noted, the following information should be logged:

1. Type of distressed area
    - Cracks (linear and alligator cracking)
    - Pot Holes
    - Ruts
    - Depressed areas
    - Heaved areas

2. Size of distressed area
    - Length & width of cracks
    - Number of cracks
    - Dimensions (length and width) of distressed area

3. Take photographs of each distressed area observed
    - Label the photographs with date and locations
    - Include an object in the photos of the distressed areas for scale (ruler, pen, coin, etc.)

Repair Measures
The objective of the repair activities to distressed areas is to limit precipitation infiltration to the waste mass beneath the pavement, maintain a suitable barrier preventing direct contact with the waste mass, and minimizing deterioration of the pavement surface. Repairs to distressed areas shall be made as soon as possible after the inspection, but no later than 2 to 3 months after the date of inspection. Repair measures should be logged, including the starting time and date the repair activities occurred, location of the repaired area, and who performed the work. Photographs should be taken to record the repair activities. The repaired area should be inspected after the repair activities to confirm the integrity of the pavement surface.

Pavement repairs will vary depending on the condition of the pavement surface: good, fair, or poor.

Repairs for Pavement in Good Condition
Condition: A pavement in good condition may have fine cracking caused by the ordinary effects of wear and tear.

Repair Measure: Apply a light seal coat over the paved surface.

Repairs for Pavement in Fair Condition
Condition: A pavement in fair condition is characterized by random cracks of up to ½ inch in width.

Repair Measure: The cracks should be sealed by the following measures:

- Rout out the crack to the sealant manufacturer's specifications for width to depth ratio.
- Clean the crack using high pressure air, wire brushing, hot air blasting or similar. High pressure water is not recommended due to the possible infiltration of water below the pavement surface.
- If the depth of the crack is greater than ¾ inch, a backer rod suitable for the sealant material should be applied in the cleaned crack.
- Inspect the cracks to ensure that they are clean, dry and contain proper backer rod if needed.
- Apply sealant following manufacturer's specifications.

Repairs or Pavement in Poor Condition
Condition: A pavement in poor condition is characterized by random cracks, raveled aggregate, depressions, local alligator cracked areas, pot holes, or upheaval.

Repair Measure:
Areas of local distress (alligator cracking, pot holes, upheaval areas) should be repaired with full depth asphalt:

- Saw the pavement around the distressed area.
- Remove the old pavement.
- Replace or add additional stone base coarse as needed.
- Clean the vertical surfaces of the pavement around the saw lines.
- Place new asphalt pavement.
- Care should be taken not to damage the geomembrane liner under the existing pavement.

Cracks should be repaired following similar methods to pavement in fair condition.

Depressed areas can be repaired with the application of a leveling course of asphalt. Depressed areas should be repaired as a preventive measure before cracking is observed.

Records
Inspection and repair logs including photographs should be maintained for a period of at least five years.

The pavement maintenance plan outlined above will serve to maintain the integrity of the cap at the site. If you have any questions or concerns with respect to the plan, please feel free to call us at your convenience.

Respectfully,

STS CONSULTANTS, LTD.

Timothy P. Wood, P.E.
Project Engineer

Attachments

SAMPLE INSPECTION FORM

STS Consultants Ltd	SITE		DATE
	Bituminous Concrete Pavement Inspection Sheet		SHEET NO. OF
	INSPECTED BY	WEATHER	

DISTRESS TYPES		
1. Alligator Cracking	5. Edge Cracking *	9. Potholes *
2. Linear Cracking *	6. Joint Reflection Crack*	10. Rutting
3. Blocks and Sags *	7. Edge Drop Off *	11. Heaving
4. Depression	8. Patching (incl. Utility)	12. Weathering & Raveling

EXISTING DISTRESS OBSERVED

Distress Type	Quantity	Severity Low	Medium	High	Photo No.

Sketch/Other Notes

* All distresses are measured in ft^2 except 2, 3, 5, 6, & 7 are in ft and 9 is in number of potholes