JW

NORTHWEST
ENVIRONMENTAL SERVICES, INC.
P.O. Box 401 • Alton, Iowa 51003

Site Monitoring Report (SMR)
October 18, 2011

Former Benjamin Station &
Woodbury Central School District Sites
Climbing Hill, Iowa

LUST No. 8LTU14/7LTV89
UST Registration No. 9217516/8811618

IDNR

Site Monitoring Report for Leaking Underground Storage Tank Sites

Iowa Department of Natural Resources

IDNR

SITE IDENTIFICATION

LUST No.	8LTU14	**UST Registration No.**	9217516

Site Name:	Former Benjamin Station
Site Address:	29 Deer Run Trail
City:	Climbing Hill

RESPONSIBLE PARTY IDENTIFICATION

Name:	Pat Benjamin		Phone #:
Street:	County Road K64		
City:	Climbing Hill	State: IA	Zip Code: 51015

Type of Monitoring: [ ] Low Risk [X] High Risk: Interim [ ] Exempt Granular Bedrock

Is site reclassification recommended? Yes / (No) If yes, what classification? [ ] NAR [ ] low risk [ ] high risk

STATEMENT OF CERTIFICATION

I, Daniel Ruppert, Groundwater Professional Certification No. 1418, am familar with all applicable requirements of Iowa Code § 455B.474 and all rules and procedures adopted thereunder including, but not limited to, Chapter 567-135 and the Department of Natural Resources' Site Monitoring Report guidance. Based on my knowledge of those documents and information I have prepared and reviewed regarding this site, UST Registration No. 9217516, LUST No. 8LTU14, I certify that this document is complete and accurate as provided in 567 IAC 135.9(11)"c" and meets the applicable requirements of the Site Monitoring Report.

Print: Name/Address/Phone # of Certified Groundwater Professional

Daniel Ruppert

Northwest Environmental Services, Inc.

P.O. Box 401

Alton, IA 51003

Signature:

Phone #: (712) 756-4732

Date: 10-18-11

I certify that I have reviewed this document, appendices and attachments for submittal to the Iowa Department of Natural Resources.

Pat Benjamin

Print: Name of Responsible Party

Signature - Responsible Party

Official IDNR Use Only

Date Received:	11/26/12	Comment Letter Date:	
Reviewer:		Approved:	Y / N

Version 2.51 - June 2002

REC'D NOV 26 2012

IDNR

Site Monitoring Report for Leaking Underground Storage Tank Sites

Iowa Department of Natural Resources

IDNR

SITE IDENTIFICATION

LUST No. 7LTV89 **UST Registration No.** 8811618

Site Name:	Woodbury Central School District
Site Address:	79 Deer Run Trail
City:	Climbing Hill

RESPONSIBLE PARTY IDENTIFICATION

Name:	Woodbury Central School District		Phone #:
Street:	PO Box AJ		
City:	Moville	State: IA	Zip Code: 51039

Type of Monitoring: [X] Low Risk [ ] High Risk: Interim [ ] Exempt Granular Bedrock

Is site reclassification recommended? Yes (No) If yes, what classification? [ ] NAR [ ] low risk [ ] high risk

STATEMENT OF CERTIFICATION

I, Daniel Ruppert, Groundwater Professional Certification No. 1418, am familar with all applicable requirements of Iowa Code § 455B.474 and all rules and procedures adopted thereunder including, but not limited to, Chapter 567-135 and the Department of Natural Resources' Site Monitoring Report guidance. Based on my knowledge of those documents and information I have prepared and reviewed regarding this site, UST Registration No. 8811618, LUST No. 7LTV89, I certify that this document is complete and accurate as provided in 567 IAC 135.9(11)"c" and meets the applicable requirements of the Site Monitoring Report.

Print: Name/Address/Phone # of Certified Groundwater Professional

Daniel Ruppert
Northwest Environmental Services, Inc.
PO Box 401
Alton, IA 51003

Signature: [signature]
Phone #: 712-756-4732
Date: 9-12-12

I certify that I have reviewed this document, appendices and attachments for submittal to the Iowa Department of Natural Resources.

Woodbury Central School District
Print: Name of Responsible Party

[signature]
Signature - Responsible Party

Official IDNR Use Only

Date Received:		Comment Letter Date:	
Reviewer:		Approved:	Y / N

Site Monitoring Report Checklist

This checklist is for Site Monitoring Reports prepared using Tier 2 software-version 2.51 and later, and applies to the following types of monitoring: **Low risk or High risk: Interim at non-bedrock and exempt granular bedrock sites.** Indicate with "NA" those sections of the report which are not included because they do not apply to site-specific conditions.

REPORT BODY: **Page Number**

[X] Cover sheet 1
[X] SMR checklist page 2
[X] Receptor summary tables 3,4,5
[X] Potential receptor summary 6
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[X] Site reclassification 7
[X] Groundwater analytical data 8
[ ] Soil analytical data 9
[ ] Soil gas analytical data 10
[ ] Soil SSTL tables 11
[X] Groundwater / Soil Leaching monitoring plan summary 12
[ ] Soil gas monitoring plan summary 13
[ ] Soil Gas Samples at Tier 2 Soil Sources 15
[ ] Soil Gas Samples at Tier 2 Groundwater Sources 16
[ ] Corrections to Tier 2 Deficiencies Included 17

APPENDICES:

[X] 1. Evaluation of analytical data
[X] 2. Site plan map
[X] 3. Site vicinity map
[ ] 4. Soil summary corrective action map
[ ] 5. Soil contamination / soil gas map(s)
[X] 6. Groundwater summary corrective action map
[X] 7. Groundwater monitoring results map
[X] 8. Groundwater contamination map (from SMR software)
[X] 9. Groundwater flow direction map
[X] 10. Analytical data sheets
[ ] 11. Boring Logs / monitoring well construction diagrams
[X] 12. Documentation
[ ] 13. Best management practices (Initial SMR only)

[ ] Computer Disk

SMR, GROUNDWATER SOURCE, RECEPTOR SUMMARY TABLE

	B	T	E	X	D	W
SMR, SOIL GAS AT GW SOURCE, USER				--		--
SOIL GAS AT GW SOURCE, DATA	NS	NS	NS	--	NS	--

Type	Receptor	Tier 2 Risk	Last Risk	T2(*) or Computed Risk Group1 B	T	E	X	TEH D	W	Corr. Action Taken?	Corrective Action(s) Completed	Current Risk
DWW	DWW-9, Bank Well	H	H	H	N*	N	N*	N*	N	N		H
DWW	DWW-12, Church	H	L	N*	N*	N	N*	L*	N	N		L
DWW	DWW-13, East Asso	H	H	H*	N*	N	N*	N*	N	N		H

N: no action required, L: low risk, H: high risk, N/A: not applicable, NSC: No source concentration, N(SG): Passed soil gas at SMR.
PE: Tier 2 preliminary pathway evaluation result. *: Risk shown is Tier 2 risk classification. Not sufficient data for risk reclassification or risk reclassification criteria for N, L or H have not been met.

Corrective Actions:

1. Plugged drinking water wells
2. Plugged non-drinking water wells
3. Notified IDNR Water Supply Section
4. Notified designated county authority
5. Notified sanitary sewer public authority
6. Notified utility company-plastic water line
7. Relocated plastic water lines
8. Replaced plastic water lines
9. Established institutional controls
10. Conducted soil excavation
11. Cleared with soil gas
12. Zoning
13. For actual PWL, GW > 3 feet

SMR, SOIL LEACHING, RECEPTOR SUMMARY TABLE

	B	T	E	X	D	W
SMR, SOIL GAS AT SOIL SOURCE, USER				--		--
SOIL GAS AT SOIL SOURCE, DATA	NS	NS	NS	--	NS	--
SUBMERGED SOIL SOURCE	???	???	???	--	???	--

				T2(*) or Computed Risk						Corr.	Corrective	
		Tier 2	Last	Group1				TEH		Action	Action(s)	Current
Type	Receptor	Risk	Risk	B	T	E	X	D	W	Taken?	Completed	Risk

For actual receptors, only Tier 2 risk shown for chemicals. For potential, reclassification uses groundwater in vicinity of the soil source.
N: No action required, or no receptors present for potential receptors. N(1): Soil source <=Tier 2 Default.
N(2): Modeled GW at Soil Source<=GW TL. N(3): Modeled GW at Receptor<=GW TL. N(4): Chemical not applicable for GW.
N/A: Chemical not applicable for soil. L: low risk. H: high risk. NSC: no source concentration. N(SG): passed soil gas at SMR.
PE: Tier 2 preliminary pathway evaluation result. *: Tier 2 risk classification result.
L or H: For PGWS, monitoring well(s) needed in vicinity of soil source to complete risk classification.

Corrective Actions:

1. Plugged drinking water wells
2. Plugged non-drinking water wells
3. Notified IDNR Water Supply Section
4. Notified designated county authority
5. Notified sanitary sewer public authority
6. Notified utility company-plastic water line
7. Relocated plastic water lines
8. Replaced plastic water lines
9. Established institutional controls
10. Conducted soil excavation
11. Cleared with soil gas
12. Zoning
13. For actual PWL, GW > 3 feet

SMR, SOIL VAPOR, SOIL TO PLASTIC WATER LINE, RECEPTOR SUMMARY TABLE

	B	T	E	D
SMR, SOIL GAS AT SOIL SOURCE, USER				
SOIL GAS AT SOIL SOURCE, DATA	NS	NS	NS	NS
SUBMERGED SOIL SOURCE	???	???	???	???

Type	Receptor	Tier 2 Risk	Last Risk	Tier 2 Risk Group1 B	T	E	TEH D	Corr. Action Taken?	Corrective Action(s) Completed	Current Risk

Tier 2 risk classification shown for chemicals.

N: no action required. L: low risk. H: high risk. N/A: chemical is not applicable. NSC: No source concentration. N(SG): Passed soil gas at SMR. PE: Tier 2 preliminary evaluation result.

Corrective Actions:

1. Plugged drinking water wells
2. Plugged non-drinking water wells
3. Notified IDNR Water Supply Section
4. Notified designated county authority
5. Notified sanitary sewer public authority
6. Notified utility company-plastic water line
7. Relocated plastic water lines
8. Replaced plastic water lines
9. Established institutional controls
10. Conducted soil excavation
11. Cleared with soil gas
12. Zoning
13. For actual PWL, GW > 3 feet

Potential Receptor Summary **SMR,V-2.51, 8LTU14**

Surveys for new, removed, and replaced receptors must be conducted within the larger area of either 1) the receptor identification plume for the appropriate receptor type; or 2) the receptor-specific distance listed in brackets below.

Receptor questions	Yes/ No	Contact Name/Company Name/ Complete Address	Contact Phone #	Date
New drinking water well(s)? [1,000']	No	1) IDNR, Geological Survey Bureau 109 Trowbridge Hall Iowa City, Iowa, 52242-1319	(319) 335-1575	10/17/2011
		2) Chuck Cipperley Siouxland District Health Department 1014 Nebraksa Street Sioux City, Iowa, 51101	(712) 279-6119	10/17/2011
New non-drinking water well(s)? [1,000']	No	1) IDNR, Geological Survey Bureau 109 Trowbridge Hall Iowa City, Iowa, 52242-1319	(319) 335-1575	10/17/2011
		2) Chuck Cipperley Siouxland District Health Department 1014 Nebraksa Street Sioux City, Iowa, 51101	(712) 279-6119	10/17/2011
Plugged drinking water well(s)? [1,000']	No	1) IDNR, Geological Survey Bureau 109 Trowbridge Hall Iowa City, Iowa, 52242-1319	(319) 335-1575	10/17/2011
		2) Chuck Cipperley Siouxland District Health Department 1014 Nebraksa Street Sioux City, Iowa, 51101	(712) 279-6119	10/17/2011
Plugged non-drinking water well(s)? [1,000']	No	1) IDNR, Geological Survey Bureau 109 Trowbridge Hall Iowa City, Iowa, 52242-1319	(319) 335-1575	10/17/2011
		2) Chuck Cipperley Siouxland District Health Department 1014 Nebraksa Street Sioux City, Iowa, 51101	(712) 279-6119	10/17/2011
New plastic water lines(s)? [200']	No	Chuck Cipperley Siouxland District Health Department 1014 Nebraksa Street Sioux City, Iowa, 51101	(712) 279-6119	10/17/2011
Replaced or relocated plastic water line(s)? [200']	No	Chuck Cipperley Siouxland District Health Department 1014 Nebraksa Street Sioux City, Iowa, 51101	(712) 279-6119	10/17/2011
New sanitary sewer(s)? [200']	No	Chuck Cipperley Siouxland District Health Department 1014 Nebraksa Street Sioux City, Iowa, 51101	(712) 279-6119	10/17/2011
Replaced or relocated sanitary sewer(s)? [200']	No	Chuck Cipperley Siouxland District Health Department 1014 Nebraksa Street Sioux City, Iowa, 51101	(712) 279-6119	10/17/2011

Potential Receptor Summary **SMR,V-2.51, 8LTU14**

Surveys for new, removed, and replaced receptors must be conducted within the larger area of either 1) the receptor identification plume for the appropriate receptor type; or 2) the receptor-specific distance listed in brackets below.

Receptor questions	Yes/ No	Contact Name/Company Name/ Complete Address	Contact Phone #	Date
New building(s) with basements? [200']	No	Grant Nelson Northwest Environmental Services, Inc. P.O. Box 401 Alton, Iowa, 51003	(712) 756-4732	10/17/2011
Building(s) with basement(s) removed? [200']	No	Grant Nelson Northwest Environmental Services, Inc. P.O. Box 401 Alton, Iowa, 51003	(712) 756-4732	10/17/2077
Zoning changes? [200']	No	Peggy Napier Woobury County Planning and Zoning 620 Douglas Street Sioux City, Iowa, 51101	712 279-6557	10/17/2011

Receptors: Status change	**SMR,V-2.51, 8LTU14**

List and describe all receptors whose status has changed since the previous receptor evaluation (e.g. Private Well A was plugged/water supply notification form was sent to the proper authorities; new hourses were built; etc.).

On 10/05/2011 a 300' pedestrian survey was performed and the status of the receptors has not changed.

Site Reclassification	**SMR,V-2.51, 8LTU14**

Should the site be reclassified? [X] No [ ] Yes If yes, the site should be reclassified as:
[ ] High Risk [ ] Low Risk [ ] No Action Required

If reclassification is recommended, provide the justification for reclassification and provide all necessary documentation in Appendix 12.

SMR Groundwater Analytical Data (ug/L), V-2.51, 8LTU14													
Boring / Well #	Date Sampled	Elevations (ASL)				Group 1				Group 2		FP Type	FP Default?
		Ground	TOC	TOS	SWL	B	T	E	X	TEH-D	TEH-WO		
B-1	07/23/1991	1,127.30	N	N	N	700.	1,985.	450.	3,345.	N	N	N	N
MW-2	07/25/1991	1,127.40	1,127.16	1,099.41	1,092.58	850.	1,090.	340.	1,410.	N	N	N	N
MW-2A	05/04/2000	1,127.30	1,126.58	1,099.50	1,095.33	225.	146.	344.	351.	N	N	N	N
MW-2A	03/28/2001	1,127.30	1,126.58	1,099.50	1,095.92	481.	35.	1,850.	454.	N	N	N	N
MW-2A	07/18/2002	1,127.30	1,126.58	1,099.50	1,097.04	185.	26.7	954.	283.	N	N	N	N
MW-2A	10/25/2003	1,127.30	1,126.58	1,099.50	1,096.26	152.	12.5	1,060.	144.	N	N	N	N
MW-2A	07/10/2004	1,127.30	1,126.58	1,099.50	1,097.34	51.5	13.6	398.	164.	N	N	N	N
MW-2A	12/12/2009	1,127.30	1,126.58	1,099.50	1,098.27	12.8	<1.	383.	143.	1,910.	<300.	N	N
MW-2A	10/05/2011	1,127.30	1,126.58	1,099.50	1,100.11	2.98	<1.	118.	113.	1,320.	<300.	N	N
MW-16	12/18/1991	1,127.70	1,127.48	1,063.73	1,092.28	5.	21.	<2.	2.	N	N	N	N
MW-16	01/02/1992	1,127.70	1,127.48	1,063.73	1,092.28	8.	4.	<2.	2.	N	N	N	N
MW-16	05/03/2000	1,127.70	1,127.48	1,063.73	1,095.88	<1.	<1.	<1.	<3.	N	N	N	N
MW-16	12/12/2009	1,127.80	1,127.52	1,063.73	1,098.40	<1.	<1.	<1.	<3.	<300.	313.	N	N
MW-16	04/29/2010	1,127.80	1,127.52	1,063.73	1,099.79	1.58	<1.	<1.	<3.	303.	409.	N	N
MW-16	10/05/2011	1,127.80	1,127.52	1,063.73	1,100.23	<1.	<1.	<1.	<3.	<300.	<300.	N	N
MW-21	01/18/1993	1,127.40	1,126.66	1,101.35	1,094.50	755.	845.	1,242.	4,052.	N	N	N	N
MW-21	12/07/1993	1,127.40	1,126.66	1,101.40	1,095.63	<1.	3.	<1.	3.	N	N	N	N
MW-21A	05/04/2000	1,127.40	1,126.66	1,099.60	1,095.80	1.1	<1.	9.2	<3.	N	N	N	N
MW-21A	03/28/2001	1,127.40	1,126.66	1,099.60	1,095.89	1.2	<1.	2.	<3.	N	N	N	N
MW-21A	07/18/2002	1,127.40	1,126.66	1,099.60	1,097.04	<1.	<1.	<1.	<3.	N	N	N	N
MW-21A	03/18/2003	1,127.40	1,126.66	1,101.40	N	189.	23.4	896.	330.	4,010.	<380.	N	N
MW-21A	12/12/2009	1,127.40	1,126.66	1,099.60	1,098.49	<1.	<1.	<1.	<3.	<300.	<300.	N	N
MW-21A	10/05/2011	1,127.40	1,126.66	1,099.60	1,100.22	<1.	<1.	<1.	<3.	<300.	<300.	N	N
MW-103	01/13/1994	1,133.40	1,132.99	1,105.40	1,095.40	<2.	81.	22.	170.	N	N	N	N
MW-103	07/16/1997	1,133.40	1,132.99	1,105.40	1,100.97	<1.	<1.	<1.	<1.	N	N	N	N
MW-103	09/16/1997	1,133.40	1,132.99	1,105.40	1,100.65	N	N	N	N	<100.	<100.	N	N
MW-103	03/19/2003	1,133.40	1,132.99	1,105.40	1,099.69	<1.	<1.	<1.	<3.	<380.	<380.	N	N
MW-103	10/05/2011	1,133.40	1,132.99	1,105.40	1,104.98	<1.	<1.	<1.	<3.	<300.	<300.	N	N
MW-117	12/01/1995	1,129.90	1,129.65	1,106.90	1,098.99	7,900.	890.	1,500.	3,400.	N	N	N	N
MW-117	07/16/1997	1,129.90	1,129.65	1,106.90	1,101.05	7,000.	221.	1,300.	5,130.	N	N	N	N
MW-117	09/16/1997	1,129.90	1,129.65	1,106.90	1,100.25	N	N	N	N	88,000.	<100.	N	N
MW-117	12/02/1998	1,129.90	1,129.65	1,106.90	1,100.84	8,890.	304.	1,350.	4,120.	109,000.	<100.	N	N
MW-117	07/09/1999	1,129.90	1,129.65	1,106.90	1,101.46	12,500.	98.5	1,590.	5,110.	<100.	<100.	N	N
MW-117	12/16/1999	1,129.90	1,129.65	1,106.90	1,100.79	13,300.	119.	1,790.	5,090.	<100.	<100.	N	N
MW-117	07/11/2000	1,129.90	1,129.65	1,106.90	1,099.54	12,700.	286.	2,220.	6,160.	45,600.	<100.	N	N
MW-117	01/24/2001	1,129.90	1,129.65	1,106.90	1,098.71	17,600.	775.	2,730.	7,340.	<100.	<100.	N	N
MW-117	07/26/2001	1,129.90	1,129.65	1,106.90	1,100.63	14,100.	584.	2,170.	4,950.	<100.	<100.	N	N

SMR Groundwater Analytical Data (ug/L), V-2.51, 8LTU14													
Boring / Well #	Date Sampled	Elevations (ASL)				Group 1				Group 2		FP Type	FP Default?
		Ground	TOC	TOS	SWL	B	T	E	X	TEH-D	TEH-WO		
MW-117	02/20/2002	1,129.90	1,129.65	1,106.90	1,099.25	11,000.	1,120.	2,110.	5,130.	<100.	<100.	N	N
MW-117	08/27/2002	1,129.90	1,129.65	1,106.90	1,100.82	8,490.	1,580.	1,670.	4,300.	35,200.	3,160.	N	N
MW-117	03/19/2003	1,129.90	1,129.65	1,106.90	1,099.74	7,980.	1,240.	1,830.	4,780.	30,100.	3,010.	N	N
MW-117	01/20/2004	1,129.90	1,129.65	1,106.90	1,099.45	7,630.	2,250.	2,260.	6,280.	31,400.	3,040.	N	N
MW-117	12/08/2004	1,129.90	1,129.65	1,106.90	1,100.04	7,490.	3,190.	2,560.	6,580.	31,800.	2,970.	N	N
MW-117	08/10/2005	1,129.90	1,129.65	1,106.90	1,100.10	8,500.	4,900.	2,300.	7,000.	3,500.	5,300.	N	N
MW-117	08/15/2006	1,129.90	1,129.65	1,106.90	1,098.56	8,190.	6,900.	2,920.	8,660.	20,000.	1,540.	N	N
MW-117	12/16/2009	1,129.90	1,129.65	1,106.90	1,102.41	5,120.	9,180.	3,210.	10,400.	33,500.	3,420.	N	N
MW-117	10/05/2011	1,129.90	1,129.65	1,106.90	1,104.94	8,260.	24,600.	3,060.	10,900.	44,000.	6,820.	N	N
MW-20	02/20/1992	1,129.10	1,128.80	1,097.05	1,094.57	181.	<2.	<2.	1,882.	N	N	N	N
MW-118	12/01/1995	1,129.10	1,128.94	1,106.10	1,098.15	23.	110.	41.	1,300.	N	N	N	N
MW-118	07/16/1997	1,129.10	1,128.94	1,106.10	1,100.21	68.	47.	13.	143.	N	N	N	N
MW-118	09/16/1997	1,129.10	1,128.94	1,106.10	1,099.78	N	N	N	N	4,000.	<100.	N	N
MW-118	12/02/1998	1,129.10	1,128.94	1,106.10	1,099.01	10.	17.7	3.	30.	1,920.	<100.	N	N
MW-118	07/08/1999	1,129.10	1,128.94	1,106.10	1,100.70	4.4	<1.	<1.	39.5	<100.	<100.	N	N
MW-118	12/16/1999	1,129.10	1,128.94	1,106.10	1,099.80	5.7	1.2	<1.	64.9	<100.	<100.	N	N
MW-118	07/11/2000	1,129.10	1,128.94	1,106.10	1,098.39	5.	1.9	<1.	68.4	<100.	<100.	N	N
MW-118	01/24/2001	1,129.10	1,128.94	1,106.10	1,097.78	5.8	1.9	<1.	74.1	<100.	<100.	N	N
MW-118	07/26/2001	1,129.10	1,128.94	1,106.10	1,099.85	32.	13.	3.	56.	1,600.	<100.	N	N
MW-118	02/20/2002	1,129.10	1,128.94	1,106.10	1,098.27	38.	16.	4.	56.	<100.	<100.	N	N
MW-118	08/27/2002	1,129.10	1,128.94	1,106.10	1,100.05	3.4	<2.	15.1	40.6	1,530.	<380.	N	N
MW-118	03/19/2003	1,129.10	1,128.94	1,106.10	1,098.77	<5.	<5.	<5.	47.	3,240.	<380.	N	N
MW-118	01/20/2004	1,129.10	1,128.94	1,106.10	1,098.49	2.5	1.3	<1.	39.8	2,120.	<380.	N	N
MW-118	12/08/2004	1,129.10	1,128.94	1,106.10	1,099.13	4.2	17.6	3.2	49.6	1,540.	<380.	N	N
MW-118	08/10/2005	1,129.10	1,128.94	1,106.10	1,099.34	1.1	<5.	<1.	11.	<100.	<250.	N	N
MW-118	12/12/2009	1,129.10	1,128.94	1,106.10	1,101.60	1.31	<1.	<1.	<3.	350.	<300.	N	N
MW-118	10/05/2011	1,129.10	1,128.94	1,106.10	1,103.92	<1.	<1.	<1.	<3.	<300.	<300.	N	N
MW-119	12/01/1995	1,128.30	1,127.93	1,105.30	1,097.21	50.	98.	120.	440.	N	N	N	N
MW-119	09/16/1997	1,128.30	1,127.93	1,105.30	1,098.83	N	N	N	N	<100.	<100.	N	N
MW-119	12/02/1998	1,128.30	1,127.93	1,105.30	1,098.83	161.	84.5	416.	660.	26,100.	<100.	N	N
MW-119	07/08/1999	1,128.30	1,127.93	1,105.30	1,099.68	215.	111.	384.	570.	<100.	<100.	N	N
MW-119R	08/15/2001	1,128.26	1,127.59	1,107.59	1,098.63	47.	52.	91.	312.	<100.	<100.	N	N
MW-119R	02/20/2002	1,128.26	1,127.59	1,107.59	1,097.16	224.	69.	330.	421.	10,800.	<100.	N	N
MW-119R	08/27/2002	1,128.26	1,127.59	1,107.59	1,099.00	34.6	10.9	44.6	71.8	3,560.	<380.	N	N
MW-119R	03/19/2003	1,128.26	1,127.59	1,107.59	1,097.65	80.	24.	144.	158.	7,660.	<380.	N	N
MW-119R	01/20/2004	1,128.26	1,127.59	1,107.59	1,097.36	205.	36.8	345.	278.	12,100.	400.	N	N
MW-119R	12/08/2004	1,128.26	1,127.59	1,107.59	1,098.00	110.	27.8	150.	130.	6,160.	<380.	N	N

SMR Groundwater Analytical Data (ug/L), V-2.51, 8LTU14													
Boring / Well #	Date Sampled	Elevations (ASL)				Group 1				Group 2		FP Type	FP Default?
		Ground	TOC	TOS	SWL	B	T	E	X	TEH-D	TEH-WO		
MW-119R	08/10/2005	1,128.26	1,127.59	1,107.59	1,098.33	28.	<25.	36.	35.	<100.	260.	N	N
MW-119R	08/15/2006	1,128.26	1,127.59	1,107.59	1,096.81	87.	41.7	155.	205.	2,790.	<300.	N	N
MW-119R	04/22/2010	1,128.26	1,127.59	1,107.59	1,101.06	126.	216.	549.	2,050.	26,500.	1,860.	N	N
MW-119R	10/05/2011	1,128.26	1,127.59	1,107.59	1,102.13	163.	186.	670.	2,260.	51,900.	3,910.	N	N
MW-120	12/01/1995	1,127.90	1,127.59	1,104.90	1,096.86	9.	8.	7.	20.	N	N	N	N
MW-120	07/16/1997	1,127.90	1,127.59	1,104.90	1,098.86	8.	18.	7.	18.	N	N	N	N
MW-120	09/16/1997	1,127.90	1,127.59	1,104.90	1,098.34	N	N	N	N	600.	<100.	N	N
MW-120	12/02/1998	1,127.90	1,127.59	1,104.90	1,098.39	3.1	12.4	4.5	8.2	1,300.	<100.	N	N
MW-120	08/28/2002	1,127.90	1,127.59	1,104.90	1,098.54	<2.	<2.	<2.	<3.	<380.	<380.	N	N
MW-120	03/19/2003	1,127.90	1,127.59	1,104.90	1,097.20	<1.	<1.	2.6	<3.	430.	<380.	N	N
MW-120	01/20/2004	1,127.90	1,127.59	1,104.90	1,096.90	<1.	<1.	3.8	<3.	662.	<380.	N	N
MW-120	12/08/2004	1,127.90	1,127.59	1,104.90	1,097.53	<2.	<2.	<2.	<3.	<380.	<380.	N	N
MW-120	08/10/2005	1,127.90	1,127.59	1,104.90	1,097.91	<1.	<5.	<1.	<3.	<100.	<250.	N	N
MW-120	12/12/2009	1,127.90	1,127.59	1,104.90	1,099.87	<1.	<1.	<1.	<3.	<300.	<300.	N	N
MW-120	10/05/2011	1,127.90	1,127.59	1,104.90	1,101.85	<1.	<1.	<1.	<3.	<300.	<300.	N	N
MW-122	07/09/1999	1,131.30	1,130.78	1,111.30	1,101.00	270.	1.1	123.	252.	<100.	<100.	N	N
MW-122	12/16/1999	1,131.80	1,130.78	1,111.30	1,100.43	107.	<1.	2.	5.1	<100.	<100.	N	N
MW-122	07/11/2000	1,131.80	1,130.78	1,111.30	1,099.18	147.	<1.	2.	1.9	2,600.	<100.	N	N
MW-122	01/24/2001	1,131.80	1,130.78	1,111.30	1,098.29	91.	<1.	<1.	<1.	<100.	<100.	N	N
MW-122	07/26/2001	1,131.80	1,130.78	1,111.30	1,100.15	53.	6.	1.	2.	800.	<100.	N	N
MW-122	02/20/2002	1,131.80	1,130.78	1,111.30	1,098.87	126.	21.	5.	11.	<100.	<100.	N	N
MW-122	08/27/2002	1,131.80	1,130.78	1,111.30	1,100.23	83.8	<2.	<2.	4.4	1,380.	<380.	N	N
MW-122	03/19/2003	1,131.80	1,130.78	1,111.30	1,099.39	65.5	<1.	<1.	<3.	929.	<380.	N	N
MW-122	01/20/2004	1,131.80	1,130.78	1,111.30	1,099.12	69.1	<1.	<1.	<3.	1,660.	<380.	N	N
MW-122	12/08/2004	1,131.80	1,130.78	1,111.30	1,099.71	96.	5.82	<2.	6.16	1,720.	<380.	N	N
MW-122	08/10/2005	1,131.80	1,130.78	1,111.30	1,099.66	58.	<5.	<1.	<3.	110.	<250.	N	N
MW-122	12/16/2009	1,131.80	1,130.78	1,111.30	1,102.09	<1.	<1.	<1.	<3.	<300.	<300.	N	N
MW-122	10/05/2011	1,131.80	1,130.78	1,111.30	1,104.65	<1.	<1.	<1.	<3.	<300.	<300.	N	N
Kamm Well	08/12/1991	N	N	N	N	~~<1.~~	~~<1.~~	~~<1.~~	~~<1.~~	~~N~~	~~N~~	N	N
DWW-1	07/09/1999	N	N	N	N	~~<1.~~	~~<1.~~	~~<1.~~	~~<1.~~	~~<100.~~	~~<100.~~	~~N~~	N
DWW-1	12/16/1999	N	N	N	N	~~<1.~~	~~<1.~~	~~<1.~~	~~<1.~~	~~<100.~~	~~<100.~~	~~N~~	N
DWW-1	07/11/2000	N	N	N	N	~~<1.~~	~~<1.~~	~~<1.~~	~~<1.~~	~~<100.~~	~~<100.~~	~~N~~	N
DWW-1	01/23/2001	N	N	N	N	~~<0.5~~	~~<0.5~~	~~<0.5~~	~~<0.5~~	~~<100.~~	~~<100.~~	~~N~~	N
DWW-1	07/27/2001	N	N	N	N	~~<1.~~	~~<1.~~	~~<1.~~	~~<1.~~	~~<100.~~	~~<100.~~	~~N~~	N
DWW-1	02/18/2002	N	N	N	N	~~<1.~~	~~<1.~~	~~<1.~~	~~<1.~~	~~<100.~~	~~<100.~~	~~N~~	N
DWW-1	08/29/2002	N	N	N	N	~~<2.~~	~~<2.~~	~~<2.~~	~~<3.~~	~~<380.~~	~~<380.~~	N	N
DWW-1	03/20/2003	N	N	N	N	~~<1.~~	~~<1.~~	~~<1.~~	~~<3.~~	~~<380.~~	~~<380.~~	N	N

SMR Groundwater Analytical Data (ug/L), V-2.51, 8LTU14													
Boring / Well #	Date Sampled	Elevations (ASL)				Group 1				Group 2		FP Type	FP Default?
		Ground	TOC	TOS	SWL	B	T	E	X	TEH-D	TEH-WO		
DWW-1	01/20/2004	N	N	N	N	~~<1.~~	~~<1.~~	~~<1.~~	~~<3.~~	~~<380.~~	~~<380.~~	N	N
DWW-1	12/07/2004	N	N	N	N	~~<2.~~	~~<2.~~	~~<2.~~	~~<3.~~	~~<380.~~	~~<380.~~	N	N
Garvey Well	12/12/2009	N	N	N	N	~~<1.~~	~~<1.~~	~~<1.~~	~~<3.~~	~~<300.~~	~~<300.~~	N	N
Garvey Well	10/12/2011	N	N	N	N	~~<1.~~	~~<1.~~	~~<1.~~	~~<3.~~	~~<300.~~	~~<300.~~	N	N
DWW-3C	03/20/2003	N	N	N	N	~~<1.~~	~~<1.~~	~~<1.~~	~~<3.~~	~~<380.~~	~~<380.~~	N	N
Benjamin Well	12/12/2009	1,132.80	1,134.35	N	N	~~<1.~~	~~<1.~~	~~<1.~~	~~<3.~~	~~<300.~~	~~<300.~~	N	N
Benjamin Well	10/05/2011	N	N	N	N	<1.	<1.	<1.	<3.	<300.	<300.	N	N
Lloyd Well	07/24/1991	1,128.70	N	N	N	~~<1.~~	~~<1.~~	~~<1.~~	~~<1.~~	~~N~~	~~N~~	N	N
Lloyd Well	01/16/1992	1,128.70	N	N	N	~~<2.~~	~~<2.~~	~~<2.~~	~~<2.~~	~~N~~	~~N~~	N	N
Lloyd Well	01/18/1993	1,128.70	N	N	N	~~<2.~~	~~<2.~~	~~<2.~~	~~<2.~~	~~N~~	~~N~~	N	N
Lloyd Well	10/26/1993	1,128.70	N	N	N	~~<2.~~	~~<2.~~	~~<2.~~	~~<2.~~	~~N~~	~~N~~	N	N
Lloyd Well	06/01/1994	1,128.70	N	N	N	~~<2.~~	~~<2.~~	~~<2.~~	~~<2.~~	~~N~~	~~N~~	N	N
Lloyd Well	06/29/1994	1,128.70	N	N	N	~~<2.~~	~~<2.~~	~~<2.~~	~~<5.~~	~~N~~	~~N~~	N	N
Lloyd Well	10/03/1994	1,128.70	N	N	1,093.70	~~<2.~~	~~<2.~~	~~<2.~~	~~<5.~~	~~N~~	~~N~~	N	N
Lloyd Well	12/20/1994	1,128.70	N	N	N	~~<2.~~	~~<2.~~	~~<2.~~	~~<5.~~	~~N~~	~~N~~	N	N
Lloyd Well	04/26/1995	1,128.70	N	N	N	~~<2.~~	~~<2.~~	~~<2.~~	~~<4.~~	~~N~~	~~N~~	N	N
Lloyd Well	07/24/1995	1,128.70	N	N	N	~~<2.~~	~~<2.~~	~~<2.~~	~~<4.~~	~~N~~	~~N~~	N	N
Lloyd Well	10/09/1995	1,128.70	N	N	N	~~<2.~~	~~<2.~~	~~<2.~~	~~<5.~~	~~N~~	~~N~~	N	N
Lloyd Well	12/26/1995	1,128.70	N	N	N	~~<2.~~	~~<2.~~	~~<2.~~	~~<5.~~	~~N~~	~~N~~	N	N
Lloyd Well	03/21/1996	1,128.70	N	N	N	~~<2.~~	~~<2.~~	~~<2.~~	~~<5.~~	~~N~~	~~N~~	N	N
Lloyd Well	07/01/1996	1,128.70	N	N	N	~~<2.~~	~~<2.~~	~~<2.~~	~~<5.~~	~~N~~	~~N~~	N	N
Lloyd Well	09/28/1996	1,128.70	N	N	N	~~<2.~~	~~<2.~~	~~<2.~~	~~<1.~~	~~N~~	~~N~~	N	N
Lloyd Well	03/31/1997	1,128.70	N	N	N	~~<1.~~	~~<1.~~	~~<1.~~	~~<1.~~	~~N~~	~~N~~	N	N
Lloyd Well	07/10/1997	1,128.70	N	N	N	~~<1.~~	~~<1.~~	~~<1.~~	~~<1.~~	~~N~~	~~N~~	N	N
Lloyd Well	10/02/1997	1,128.70	N	N	N	~~<1.~~	~~<1.~~	~~<1.~~	~~<1.~~	~~N~~	~~N~~	N	N
Lloyd Well	01/13/1998	1,128.70	N	N	N	~~<1.~~	~~<1.~~	~~<1.~~	~~<1.~~	~~N~~	~~N~~	N	N
Lloyd Well	05/06/1998	1,128.70	N	N	N	~~<1.~~	~~<1.~~	~~<1.~~	~~<1.~~	~~N~~	~~N~~	N	N
Lloyd Well	08/03/1998	1,128.70	N	N	N	~~<1.~~	~~<1.~~	~~<1.~~	~~<1.~~	~~N~~	~~N~~	N	N
Lloyd Well	12/28/1998	1,128.70	N	N	N	~~<1.~~	~~<1.~~	~~<1.~~	~~<1.~~	~~N~~	~~N~~	N	N
DWW-7	07/09/1999	N	N	N	N	~~<1.~~	~~<1.~~	~~<1.~~	~~<1.~~	~~<100.~~	~~<100.~~	~~N~~	N
DWW-7	12/16/1999	N	N	N	N	~~<1.~~	~~<1.~~	~~<1.~~	~~<1.~~	~~<100.~~	~~<100.~~	~~N~~	N
Lloyd Well	05/04/2000	1,128.70	N	N	N	~~<1.~~	~~<1.~~	~~<1.~~	~~<3.~~	~~N~~	~~N~~	N	N
DWW-7	07/11/2000	N	N	N	N	~~<1.~~	~~<1.~~	~~<1.~~	~~<1.~~	~~<100.~~	~~<100.~~	~~N~~	N
DWW-7	01/23/2001	N	N	N	N	~~<0.5~~	~~<0.5~~	~~<0.5~~	~~<0.5~~	~~<100.~~	~~<100.~~	~~N~~	N
DWW-7	07/27/2001	N	N	N	N	~~1.~~	~~<1.~~	~~<1.~~	~~<1.~~	~~<100.~~	~~<100.~~	~~N~~	N
DWW-7	02/18/2002	N	N	N	N	~~<1.~~	~~<1.~~	~~<1.~~	~~<1.~~	~~<100.~~	~~<100.~~	~~N~~	N
DWW-7	08/29/2002	1,128.70	N	N	N	~~<2.~~	~~<2.~~	~~<2.~~	~~<3.~~	~~<380.~~	~~<380.~~	N	N

SMR Groundwater Analytical Data (ug/L), V-2.51, 8LTU14													
Boring / Well #	Date Sampled	Elevations (ASL)				Group 1				Group 2		FP Type	FP Default?
		Ground	TOC	TOS	SWL	B	T	E	X	TEH-D	TEH-WO		
DWW-7	03/18/2003	1,128.70	N	N	N	<1.	<1.	<1.	<3.	<380.	<380.	N	N
DWW-7	01/20/2004	1,128.70	N	N	N	<1.	<1.	<1.	<3.	<380.	<380.	N	N
Lloyd Well	07/10/2004	1,128.70	N	N	N	<1.	<1.	<1.	<3.	N	N	N	N
DWW-7	12/07/2004	1,128.70	N	N	N	<2.	<2.	<2.	<3.	<380.	<380.	N	N
Lloyd Well	12/12/2009	1,127.90	1,128.70	N	N	<1.	<1.	<1.	<3.	<300.	<300.	N	N
Lloyd Well	10/05/2011	1,127.90	1,128.70	N	N	<1.	<1.	<1.	<3.	<300.	<300.	N	N
Bank Well	08/12/1991	N	N	N	N	<1.	<1.	<1.	<1.	N	N	N	N
DWW-9	07/09/1999	N	N	N	N	<1.	<1.	<1.	<1.	<100.	<100.	N	N
DWW-9	12/16/1999	N	N	N	N	<1.	<1.	<1.	<1.	<100.	<100.	N	N
DWW-9	07/11/2000	N	N	N	N	<1.	<1.	<1.	<1.	<100.	<100.	N	N
DWW-9	01/23/2001	N	N	N	N	<0.5	<0.5	<0.5	<0.5	<100.	<100.	N	N
DWW-9	07/27/2001	N	N	N	N	<1.	<1.	<1.	<1.	<100.	<100.	N	N
DWW-9	02/18/2002	N	N	N	N	<1.	<1.	<1.	<1.	<100.	<100.	N	N
DWW-9	08/29/2002	N	N	N	N	<2.	12.6	<2.	<3.	<380.	<380.	N	N
DWW-9	03/20/2003	N	N	N	N	<1.	<1.	<1.	<3.	<380.	<380.	N	N
DWW-9	01/20/2004	N	N	N	N	<1.	<1.	<1.	<3.	<380.	<380.	N	N
Bank Well	12/12/2009	1,127.60	1,127.58	N	N	<1.	<1.	<1.	<3.	<300.	<300.	N	N
Bank Well	04/22/2010	1,127.60	1,127.58	N	N	<1.	<1.	<1.	<3.	<300.	<300.	N	N
Bank Well	10/05/2011	1,127.60	1,127.58	N	N	<1.	<1.	<1.	<3.	<300.	<300.	N	N
DWW-12	07/09/1999	N	N	N	N	<1.	<1.	<1.	<1.	<100.	<100.	N	N
DWW-12	12/16/1999	N	N	N	N	<1.	<1.	<1.	<1.	<100.	<100.	N	N
DWW-12	07/11/2000	N	N	N	N	<1.	<1.	<1.	<1.	<100.	<100.	N	N
DWW-12	07/27/2001	N	N	N	N	<1.	<1.	<1.	<1.	<100.	<100.	N	N
DWW-12	02/18/2002	N	N	N	N	<1.	<1.	<1.	<1.	<100.	<100.	N	N
DWW-12	08/29/2002	N	N	N	N	<2.	<2.	<2.	<3.	<380.	<380.	N	N
DWW-12	03/20/2003	N	N	N	N	<1.	<1.	<1.	<3.	<380.	<380.	N	N
DWW-12	01/20/2004	N	N	N	N	<1.	<1.	<1.	<3.	<380.	<380.	N	N
DWW-12	12/07/2004	N	N	N	N	<2.	<2.	<2.	<3.	<380.	<380.	N	N
DWW-12	08/15/2006	N	N	N	N	<1.	<1.	<1.	<3.	<300.	<300.	N	N
Church Well	12/12/2009	N	N	N	N	<1.	<1.	<1.	<3.	<300.	<300.	N	N
Church Well	10/12/2011	N	N	N	N	<1.	<1.	<1.	<3.	<300.	<300.	N	N
East Assoc. Wel	12/12/2009	N	N	N	N	<1.	<1.	<1.	<3.	<300.	<300.	N	N
East Assoc. Wel	10/05/2011	N	N	N	N	<1.	<1.	<1.	<3.	<345.	<345.	N	N
West Assoc. Wel	12/12/2009	N	N	N	N	<1.	<1.	<1.	<3.	<300.	<300.	N	N
West Assoc. Wel	10/05/2011	N	N	N	N	<1.	<1.	<1.	<3.	<300.	<300.	N	N
Wolfs Well	08/12/1991	N	N	N	N	<1.	<1.	<1.	<1.	N	N	N	N
Hancock Wel	04/22/2010	N	N	N	N	<1.	<1.	<1.	<3.	<333.	<333.	N	N

SMR Groundwater Analytical Data (ug/L), V-2.51, 8LTU14													
Boring / Well #	Date Sampled	Elevations (ASL)				Group 1				Group 2		FP Type	FP Default?
		Ground	TOC	TOS	SWL	B	T	E	X	TEH-D	TEH-WO		
Hancock Well	10/05/2011	N	N	N	N	~~<1.~~	~~<1.~~	~~<1.~~	~~<3.~~	~~<300.~~	~~<300.~~	N	N
School Well	04/22/2010	1,131.80	1,132.54	N	N	~~2.57~~	~~4.81~~	~~11.9~~	~~44.4~~	~~<300.~~	~~<300.~~	N	N
School Well Inside	05/10/2010	1,131.80	1,132.54	N	N	~~<1.~~	~~<1.~~	~~<1.~~	~~<3.~~	~~<300.~~	~~<300.~~	N	N
School Well Outside	05/10/2010	1,131.80	1,132.54	N	N	~~<1.~~	~~<1.~~	~~<1.~~	~~<3.~~	~~<300.~~	~~<300.~~	N	N
School Well	09/10/2010	1,131.80	1,132.54	N	N	~~<1.~~	~~<1.~~	~~<1.~~	~~<3.~~	~~<300.~~	~~<300.~~	N	N
School Well	12/09/2010	1,131.80	1,132.54	N	N	~~<2.~~	~~<2.~~	~~<2.~~	~~<3.~~	~~N~~	~~N~~	N	N
School Well	03/02/2011	1,131.80	1,132.54	N	N	~~<2.~~	~~<2.~~	~~<2.~~	~~<3.~~	~~N~~	~~N~~	N	N
School Well	06/15/2011	1,131.80	1,132.54	N	N	~~<1.~~	~~<1.~~	~~1.47~~	~~<3.~~	~~N~~	~~N~~	N	N
School Well	10/05/2011	1,131.80	1,132.54	N	N	~~<1.~~	~~<1.~~	~~<1.~~	~~<3.~~	~~<300.~~	~~<300.~~	N	N

MTBE Sampling Results

LUST #	Site Name	Site City	Monitoring Event	Sample ID	Sample Date (mm/dd/yyyy)	Ground Surface Elevation (feet ASL)	Static Water Level (feet ASL)	**MTBE Groundwater** (ug/L)	Comments
8LTU14 - 7LTV89	Climbing Hill	Climbing Hill	SMR	MW-2A	10/5/2011	1127.30	1100.11	<1.00	
8LTU14 - 7LTV89	Climbing Hill	Climbing Hill	SMR	MW-16	10/5/2011	1127.80	1100.23	<1.00	
8LTU14 - 7LTV89	Climbing Hill	Climbing Hill	SMR	MW-21A	10/5/2011	1127.40	1100.22	<1.00	
8LTU14 - 7LTV89	Climbing Hill	Climbing Hill	SMR	MW-103	10/5/2011	1133.40	1104.98	<1.00	
8LTU14 - 7LTV89	Climbing Hill	Climbing Hill	SMR	MW-117	10/5/2011	1129.90	1104.94	<16.0	
8LTU14 - 7LTV89	Climbing Hill	Climbing Hill	SMR	MW-118	10/5/2011	1129.10	1103.92	<1.00	
8LTU14 - 7LTV89	Climbing Hill	Climbing Hill	SMR	MW-119R	10/5/2011	1128.26	1102.13	<10.0	
8LTU14 - 7LTV89	Climbing Hill	Climbing Hill	SMR	MW-120	10/5/2011	1127.90	1101.85	<1.00	
8LTU14 - 7LTV89	Climbing Hill	Climbing Hill	SMR	MW-122	10/5/2011	1131.80	1104.65	<1.00	
8LTU14 - 7LTV89	Climbing Hill	Climbing Hill	SMR	Bank Well	10/5/2011	1127.60	NA	<1.00	
8LTU14 - 7LTV89	Climbing Hill	Climbing Hill	SMR	Benjamin Well	10/5/2011	NA	NA	<1.00	
8LTU14 - 7LTV89	Climbing Hill	Climbing Hill	SMR	Lloyd Well	10/5/2011	1127.90	NA	<1.00	
8LTU14 - 7LTV89	Climbing Hill	Climbing Hill	SMR	Hancock Well	10/5/2011	NA	NA	<1.00	
8LTU14 - 7LTV89	Climbing Hill	Climbing Hill	SMR	East Association Well	10/5/2011	NA	NA	<1.00	
8LTU14 - 7LTV89	Climbing Hill	Climbing Hill	SMR	West Association Well	10/5/2011	NA	NA	<1.00	
8LTU14 - 7LTV89	Climbing Hill	Climbing Hill	SMR	Garvey Well	10/12/2011	NA	NA	<1.00	
8LTU14 - 7LTV89	Climbing Hill	Climbing Hill	SMR	Church Well	10/12/2011	NA	NA	<1.00	
8LTU14 - 7LTV89	Climbing Hill	Climbing Hill	Quarterly	School Well	9/10/2010	1131.80	NA	<1.00	
8LTU14 - 7LTV89	Climbing Hill	Climbing Hill	Quarterly	School Well	6/15/2011	1131.80	NA	<1.00	
8LTU14 - 7LTV89	Climbing Hill	Climbing Hill	SMR	School Well	10/5/2011	1131.80	NA	<1.00	

SMR, GROUNDWATER / SOIL LEACHING MONITORING PLAN SUMMARY and NFA GW/SL MONITORING RESULTS

MW	Most Recent Sample	SSTL	SSTL Met	Steady Decline/ 3 Year	Monitor Type(T2)	Receptor Type	Receptor Label	Receptor Description	Chem. Risk	Recept. Curr. Risk	Min. Freq.
GW/SL MONITORING PLAN											
MW-103	<1.00										
		13	Yes	Yes	/	DWW	DWW-13	East Association W	H*	H	Annual
MW-106	<1										
		26	Yes	Yes	TG/	DWW	DWW-9	Bank Well	H	H	Annual
MW-109	<1										
		6	Yes	Yes	G/	DWW	DWW-13	East Association W	H*	H	Annual
MW-115	<1										
		28	Yes	Yes	/	DWW	DWW-13	East Association W	H*	H	Annual
MW-117	8,260										
		322	No	No	S/	DWW	DWW-9	Bank Well	H	H	Annual
		8,586	Yes	No	S/	DWW	DWW-13	East Association W	H*	H	Annual
MW-20 MW-	<1.00										
		11	Yes	Yes	XT/	DWW	DWW-9	Bank Well	H	H	Annual
MW-122	<1.00										
		39	Yes	Yes	X/	DWW	DWW-13	East Association W	H*	H	Annual
NFA GW/SL MONITORING RESULTS											

SMR, GROUNDWATER / SOIL LEACHING MONITORING PLAN SUMMARY and NFA GW/SL MONITORING RESULTS

MW	Most Recent Sample	SSTL	SSTL Met	Steady Decline/ 3 Year	Monitor Type(T2)	Receptor Type	Receptor Label	Receptor Description	Chem. Risk	Recept. Curr. Risk	Min. Freq.
GW/SL MONITORING PLAN											
MW-119 M	51,900**										
		178,949	Yes	No	S/	DWW	DWW-12	Church Well	L*	L	Annual
MW-121	1,750										
		17,937	Yes	No	L/	DWW	DWW-12	Church Well	L*	L	Annual
MW-122	<300										
		9,331	Yes	No	/	DWW	DWW-12	Church Well	L*	L	Annual
NFA GW/SL MONITORING RESULTS											

APPENDIX 1

EVALUATION OF ANALYTICAL DATA

APPENDIX 1

EVALUATION OF ANALYTICAL DATA

Annual monitoring of the School District and the Benjamin sites (former Service Station site) was performed on October 5, 2011. This SMR is a combined report for both sites and provides mapping of the current groundwater concentrations. We were not able to access the water sample locations for the Church well and the Garvey well during this initial site visit. The Church custodian inadvertently locked the doors and Ms. Garvey is now in a nursing home and the caretaker was not available during our initial site visit. We revisited the site on October 12, 2011 to collect samples from these two locations.

The Tier 2 software file used for this report was generated using the Benjamin site software file as the base file and all of the historical data from the School District site has been included. The primary problem with creating this Tier 2 software file was the overwhelming amount of analytical data provided in the SMR Groundwater Analytical Data Table. In order to make this report easier to review, only the historical data from wells that were sampled during this monitoring event are printed in the table. Please note that all of the data is provided in the software file.

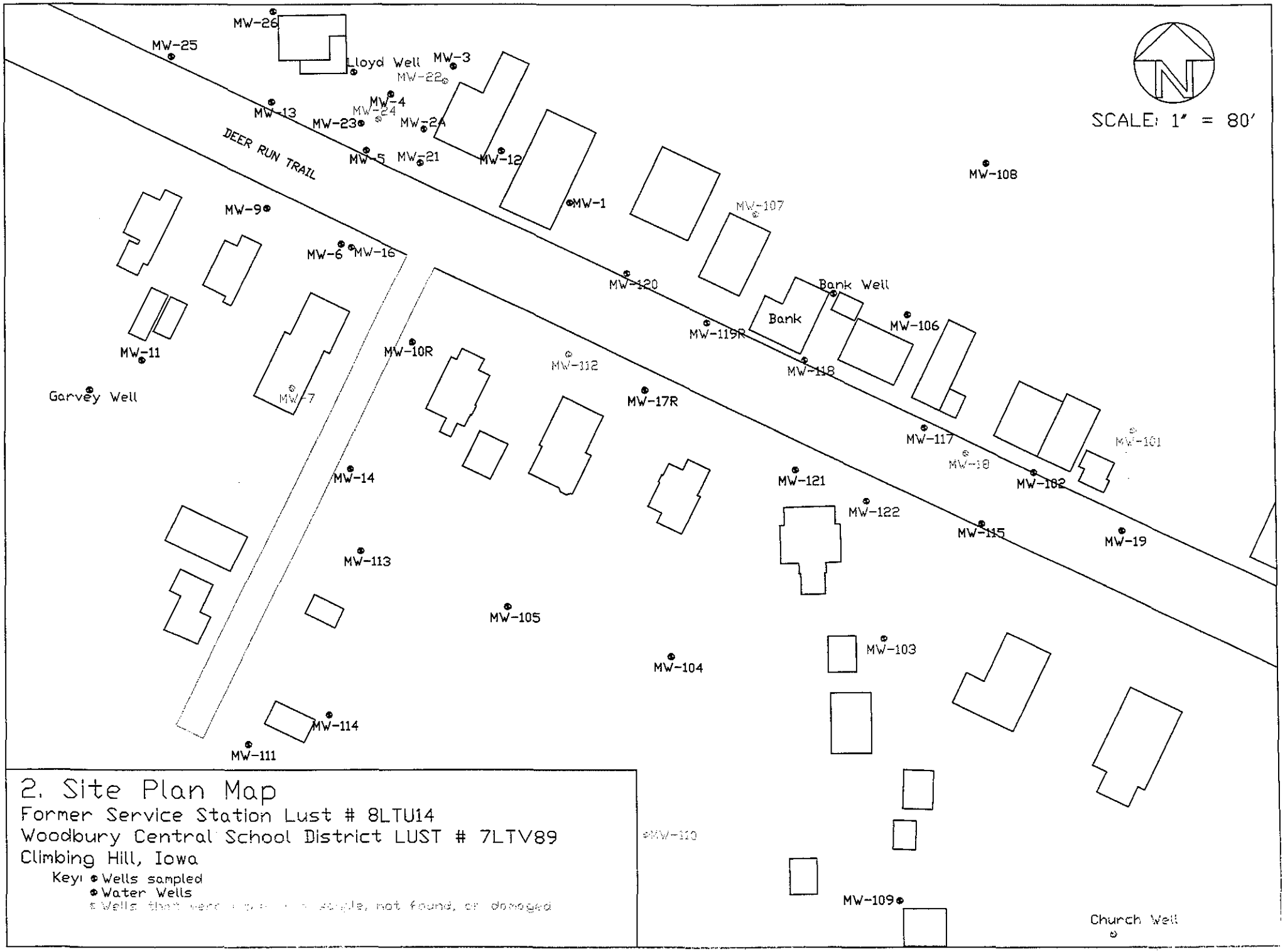
Although the changes in the groundwater analytical results were mixed at the monitoring wells, contaminants were not detected in the water supply wells. The most significant change for the monitoring wells was the increase in the benzene concentration at MW-117 from 5,120 ppb to 8,260 ppb. Except for ethylbenzene, the other chemicals of concern including TEH, similarly increased at MW-117 from the most recent sample collected in December 2009. Although groundwater levels rose more than 2½ feet between the December 2009 and the October 2011 monitoring events, groundwater dilution from high water levels apparently did not affect the results at MW-117.

With respect to the other sampling locations, only the analytical results from MW-119R indicated a potentially upward trend with the concentrations at the other sampling locations decreasing or remaining at nondectable levels. Although the toluene concentration at MW-119R decreased slightly between monitoring events, the concentrations of the remainder of the analytical parameters increased, including an increase in the TEH-diesel concentration from 26,500 ppb to 51,900 ppb. Concentrations decreased at MW-2A and MW-118 and remained at nondectable levels at MW-21A, MW-103, MW-120, and MW-122.

Although the top-of-screens were slightly below the water table at MW-2A and MW-21A, groundwater analysis was performed on the samples collected from these two locations because these wells are associated with the School District site and are not required for further risk evaluation of this site at Tier 2. Analysis was performed to detect general trends in contaminant concentrations and the results were used in construction of the groundwater plume maps. Because MW-16 is a deep well nested with MW-6, the screen for MW-16 well is submerged by design. Although MW-6 was recently repaired and was well protected from damage, this monitoring well has inexplicably been removed.

APPENDIX 2

SITE PLAN MAP



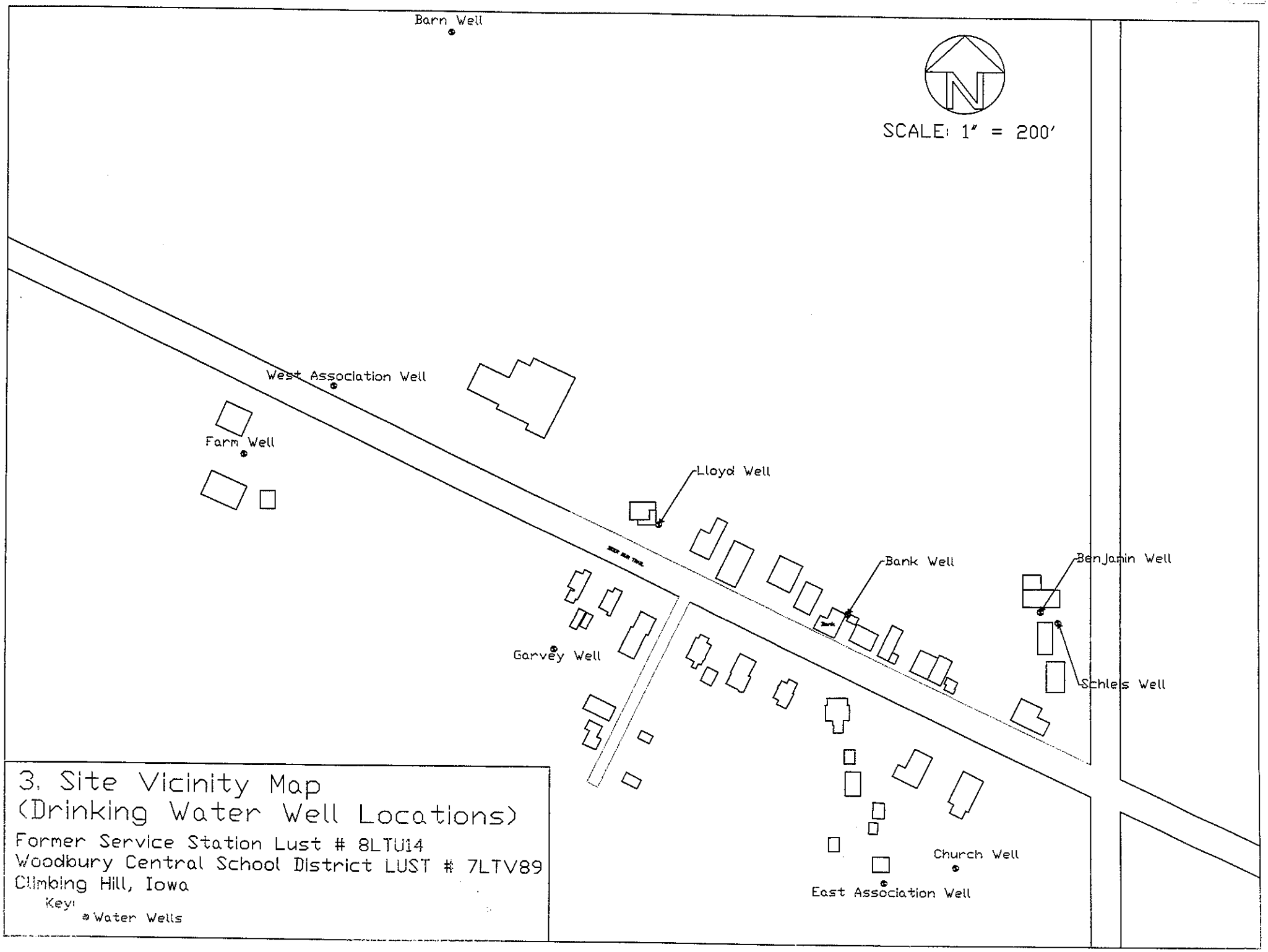
2. Site Plan Map

Former Service Station Lust # 8LTU14
Woodbury Central School District LUST # 7LTV89
Climbing Hill, Iowa

Key: ● Wells sampled
● Water Wells
● Wells that were [illegible] single, not found, or damaged

APPENDIX 3

SITE VICINITY MAP



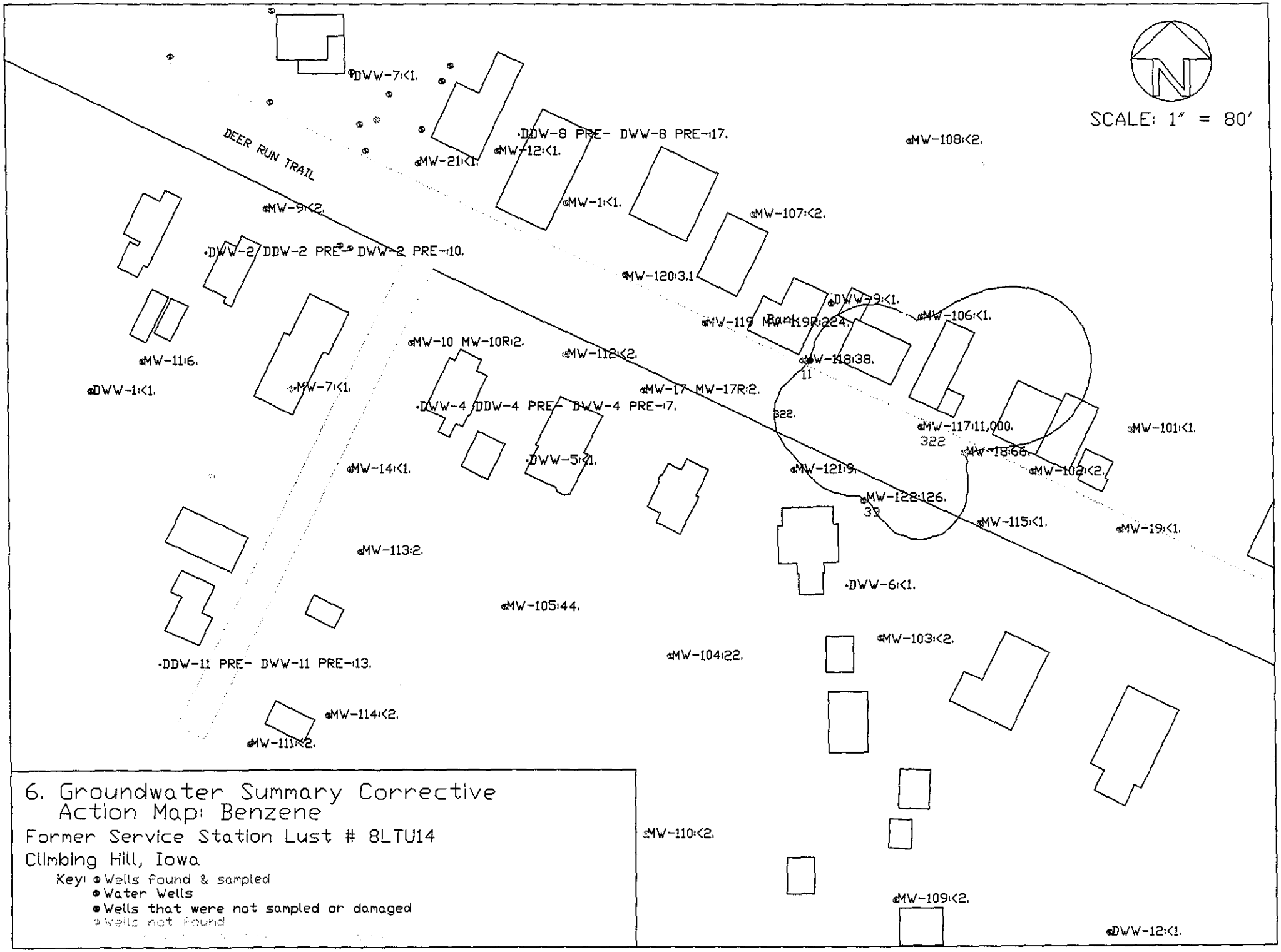
3. Site Vicinity Map
(Drinking Water Well Locations)

Former Service Station Lust # 8LTU14
Woodbury Central School District LUST # 7LTV89
Climbing Hill, Iowa

Key:
⊕ Water Wells

APPENDIX 6

GROUNDWATER SUMMARY CORRECTIVE ACTION MAP



6. Groundwater Summary Corrective Action Map: Benzene

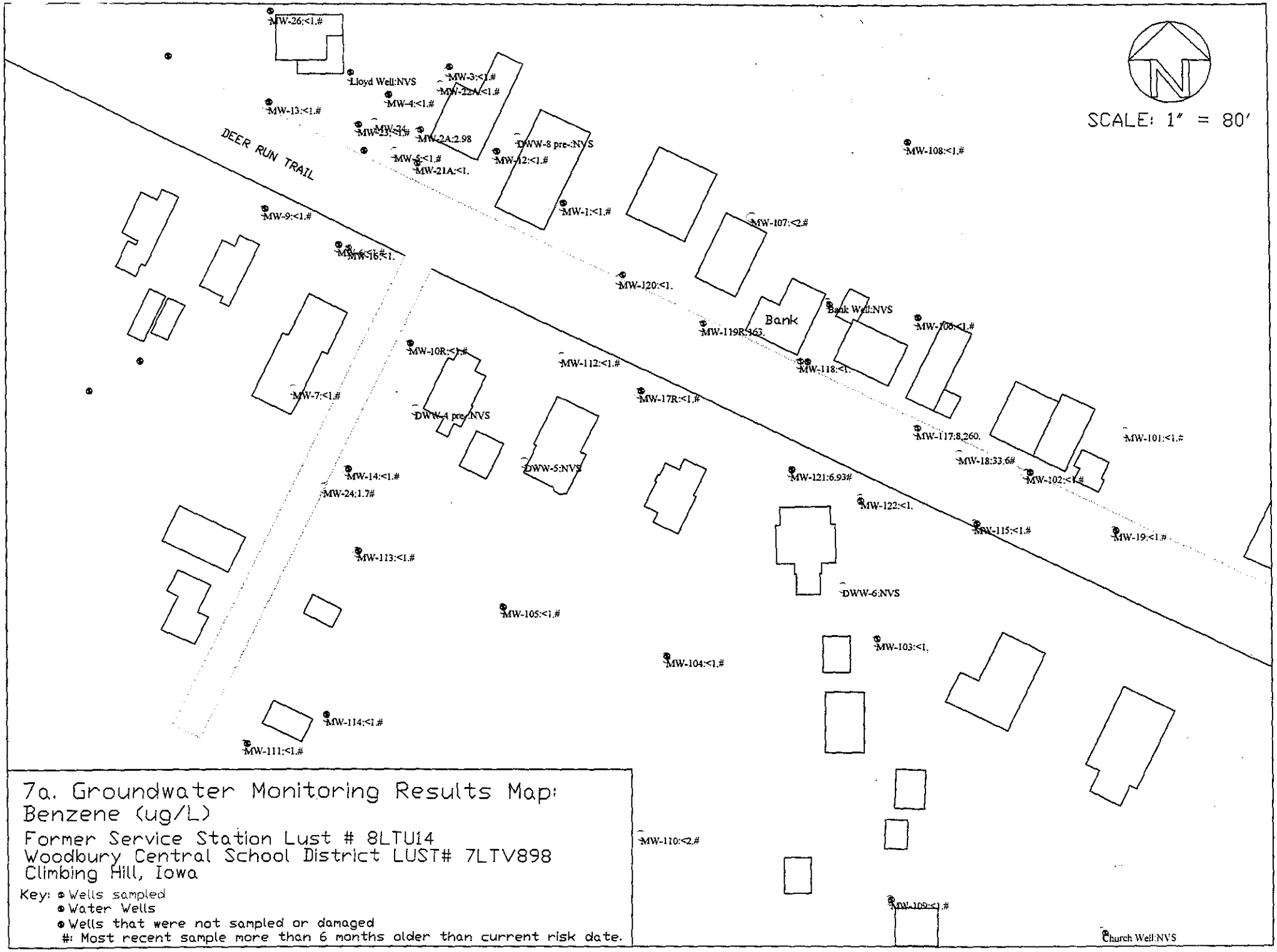
Former Service Station Lust # 8LTU14

Climbing Hill, Iowa

Key: Wells found & sampled
Water Wells
Wells that were not sampled or damaged
Wells not found

APPENDIX 7

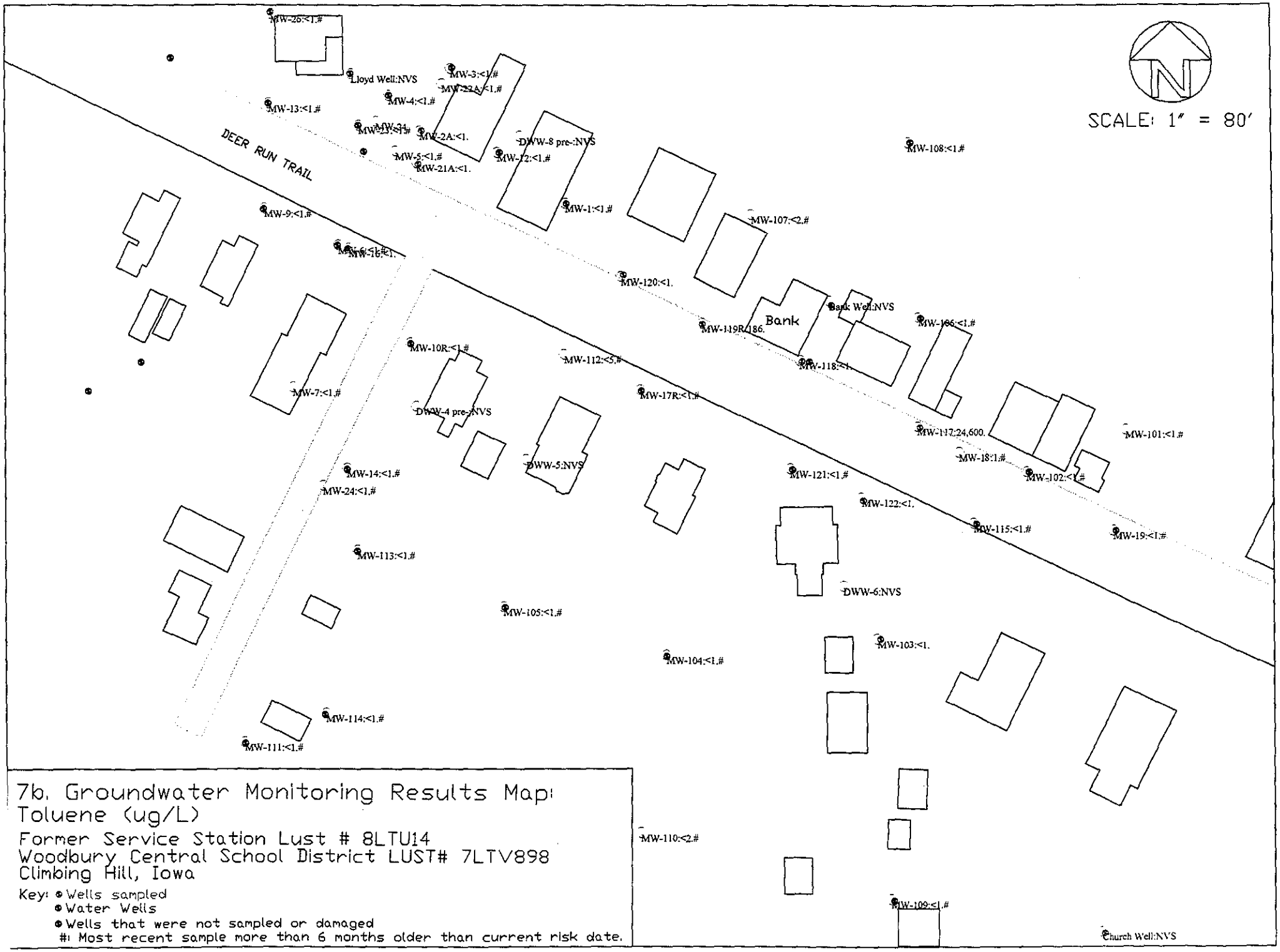
GROUNDWATER MONITORING RESULTS MAPS



7a. Groundwater Monitoring Results Map: Benzene (ug/L)

Former Service Station Lust # 8LTU14
Woodbury Central School District LUST# 7LTV898
Climbing Hill, Iowa

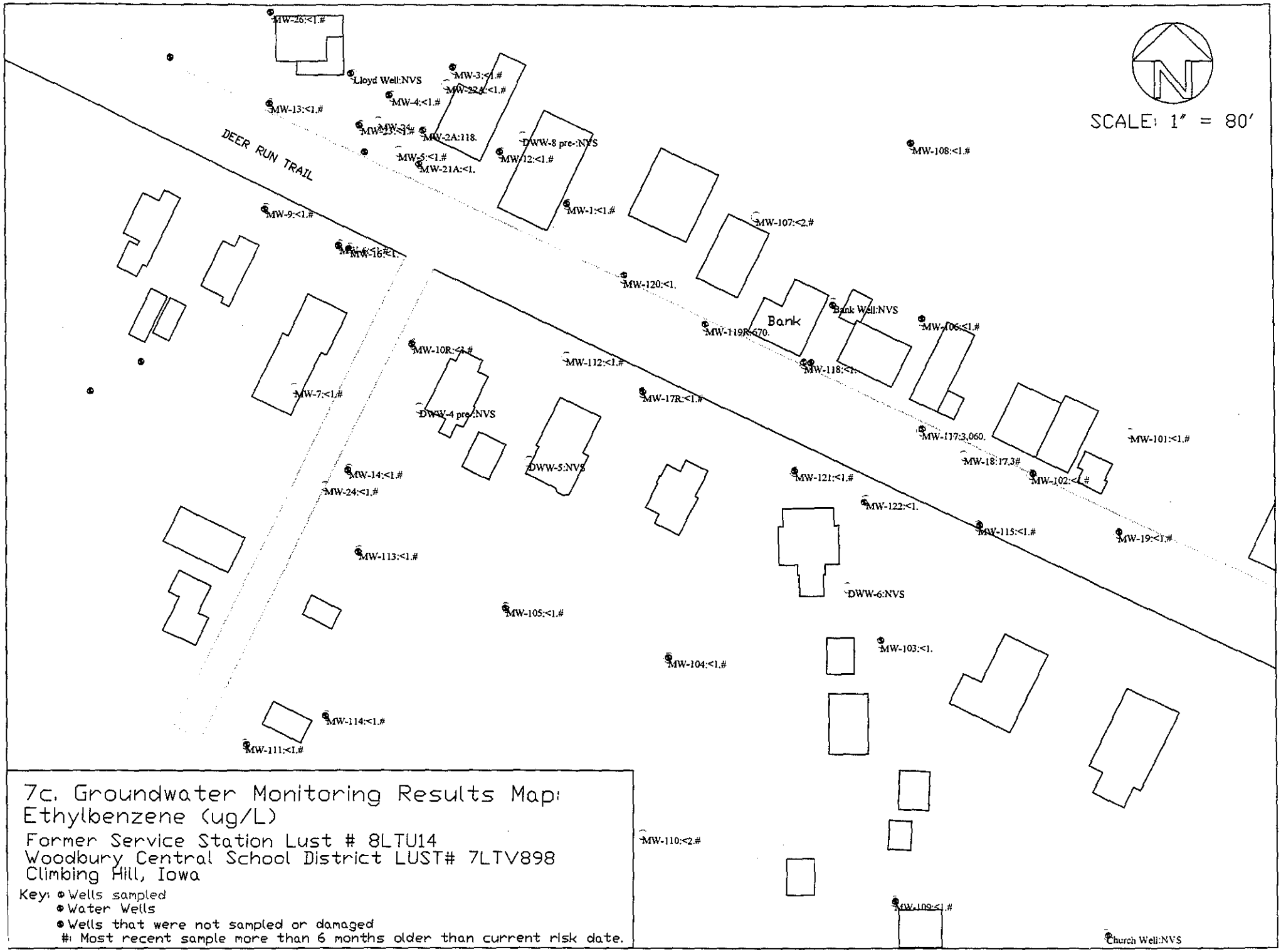
Key: Wells sampled
Water Wells
Wells that were not sampled or damaged
#: Most recent sample more than 6 months older than current risk date.



7b. Groundwater Monitoring Results Map:
Toluene (ug/L)

Former Service Station Lust # 8LTU14
Woodbury Central School District LUST# 7LTV898
Climbing Hill, Iowa

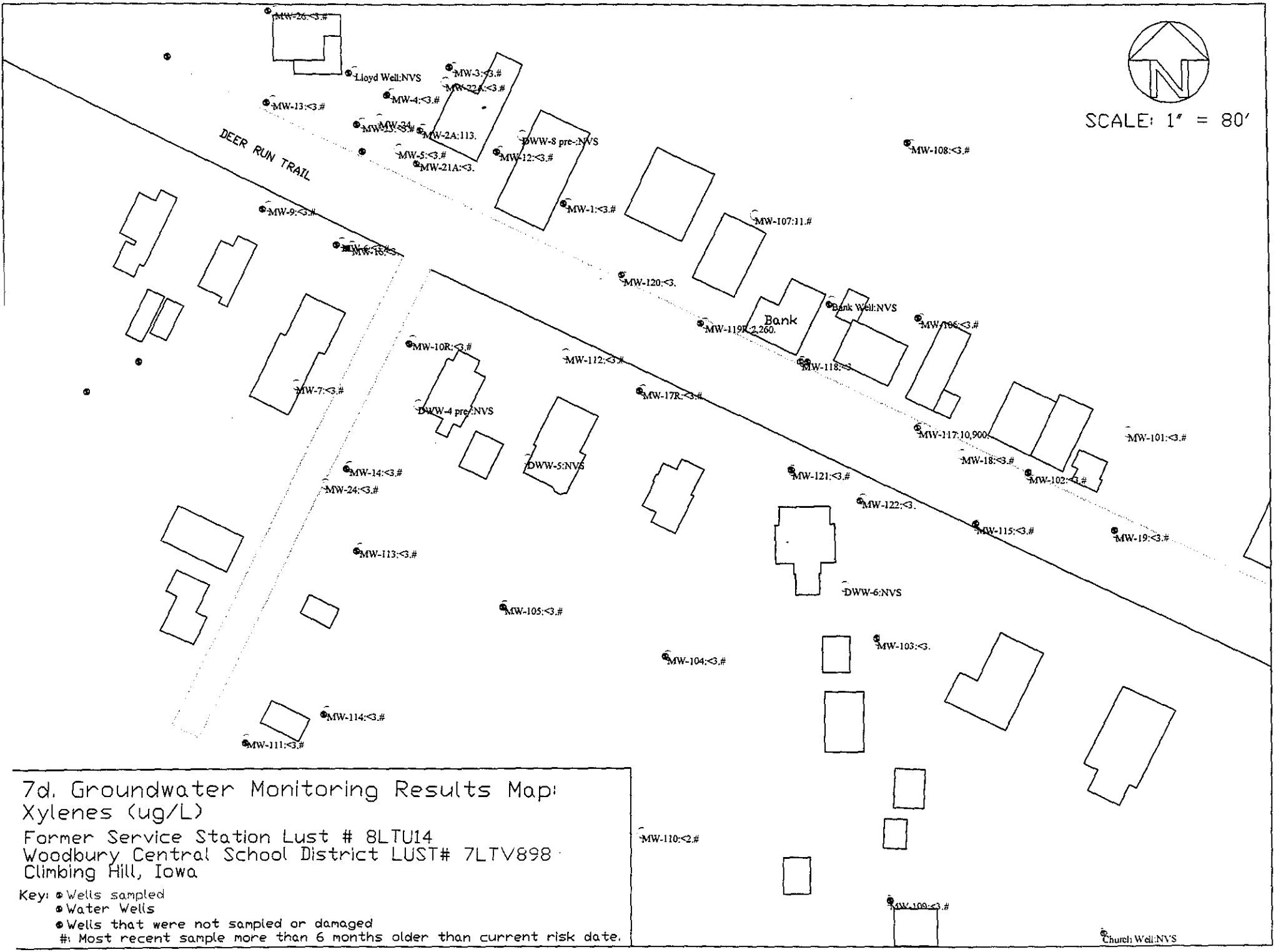
Key: ● Wells sampled
● Water Wells
● Wells that were not sampled or damaged
#: Most recent sample more than 6 months older than current risk date.



7c. Groundwater Monitoring Results Map: Ethylbenzene (ug/L)

Former Service Station Lust # 8LTU14
Woodbury Central School District LUST# 7LTV898
Climbing Hill, Iowa

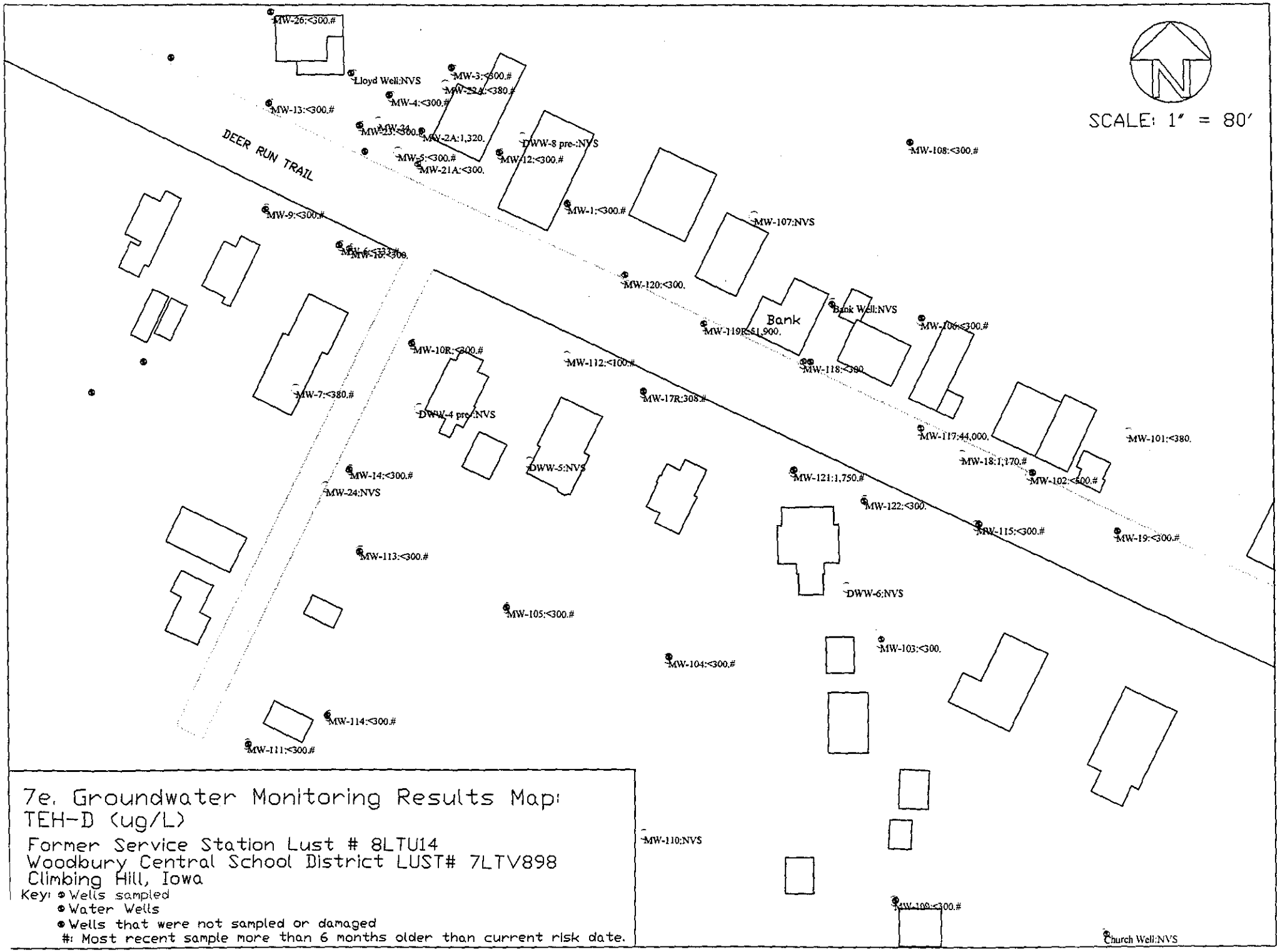
Key: ● Wells sampled
● Water Wells
● Wells that were not sampled or damaged
#: Most recent sample more than 6 months older than current risk date.



7d. Groundwater Monitoring Results Map: Xylenes (ug/L)

Former Service Station Lust # 8LTU14
Woodbury Central School District LUST# 7LTV898
Climbing Hill, Iowa

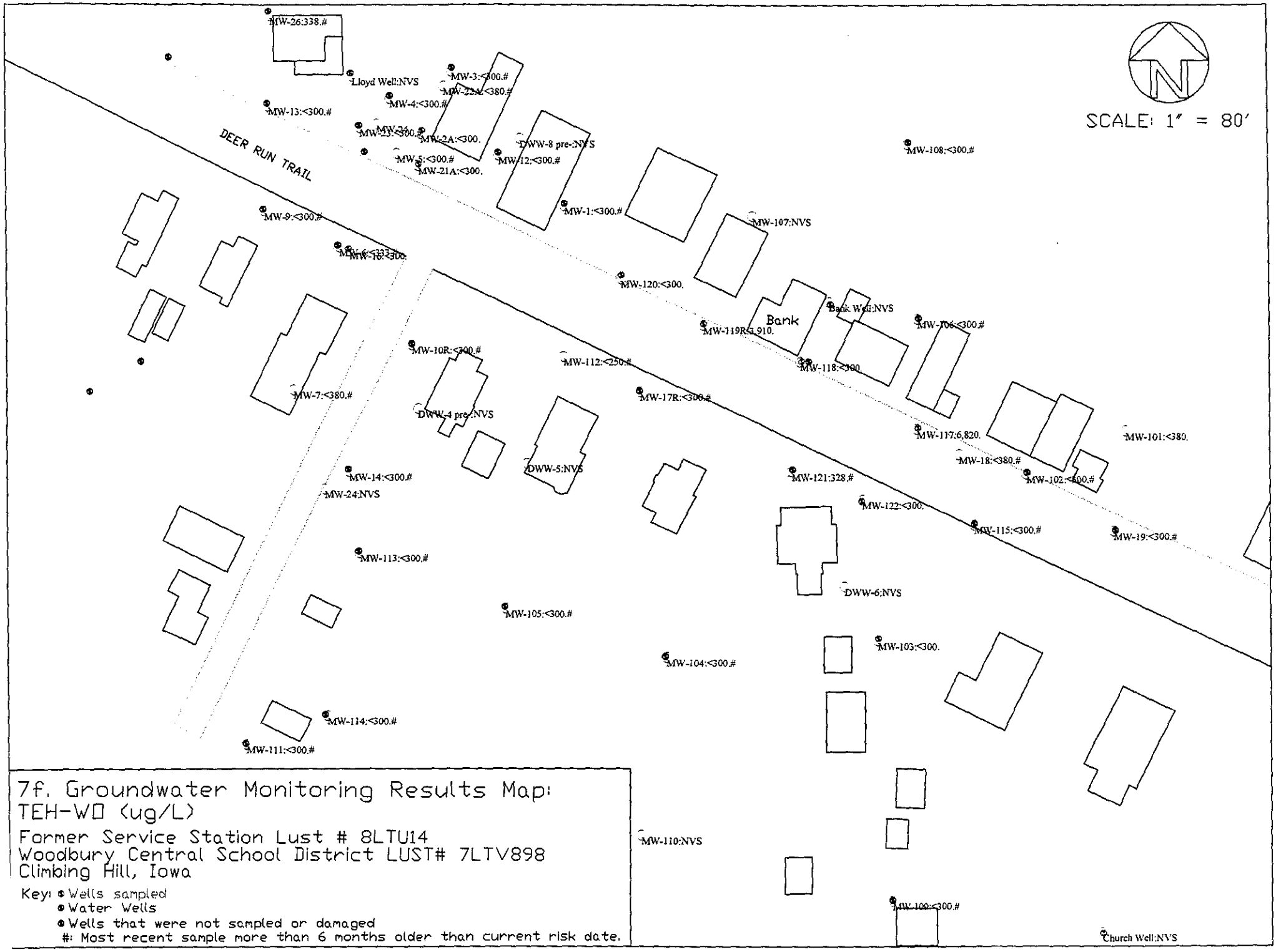
Key: ● Wells sampled
● Water Wells
● Wells that were not sampled or damaged
#: Most recent sample more than 6 months older than current risk date.



7e. Groundwater Monitoring Results Map:
TEH-D (ug/L)

Former Service Station Lust # 8LTU14
Woodbury Central School District LUST# 7LTV898
Climbing Hill, Iowa

Key: ● Wells sampled
● Water Wells
● Wells that were not sampled or damaged
#: Most recent sample more than 6 months older than current risk date.



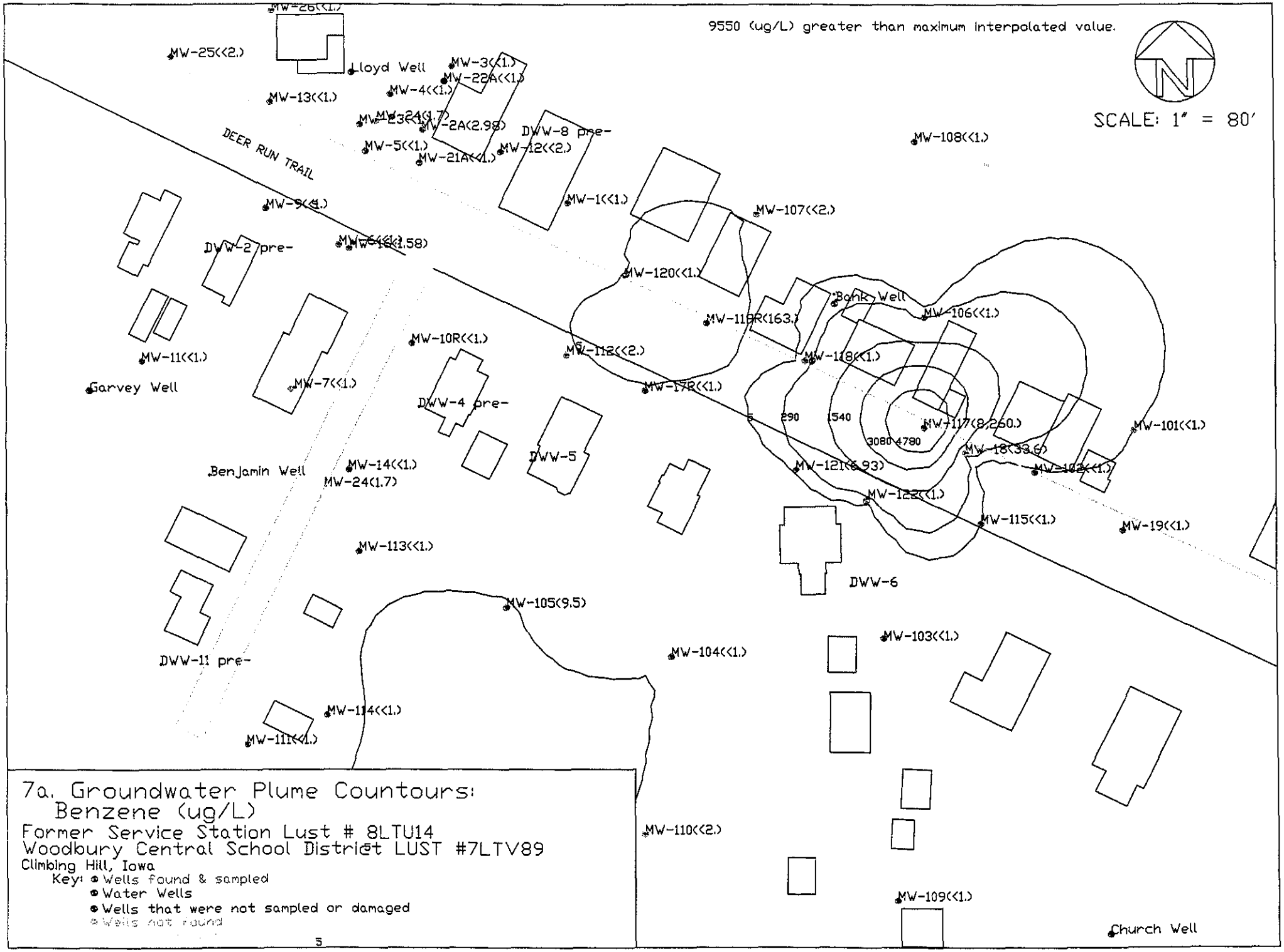
7f. Groundwater Monitoring Results Map:
TEH-WO (ug/L)

Former Service Station Lust # 8LTU14
Woodbury Central School District LUST# 7LTV898
Climbing Hill, Iowa

Key: ⊗ Wells sampled
⊗ Water Wells
⊗ Wells that were not sampled or damaged
#: Most recent sample more than 6 months older than current risk date.

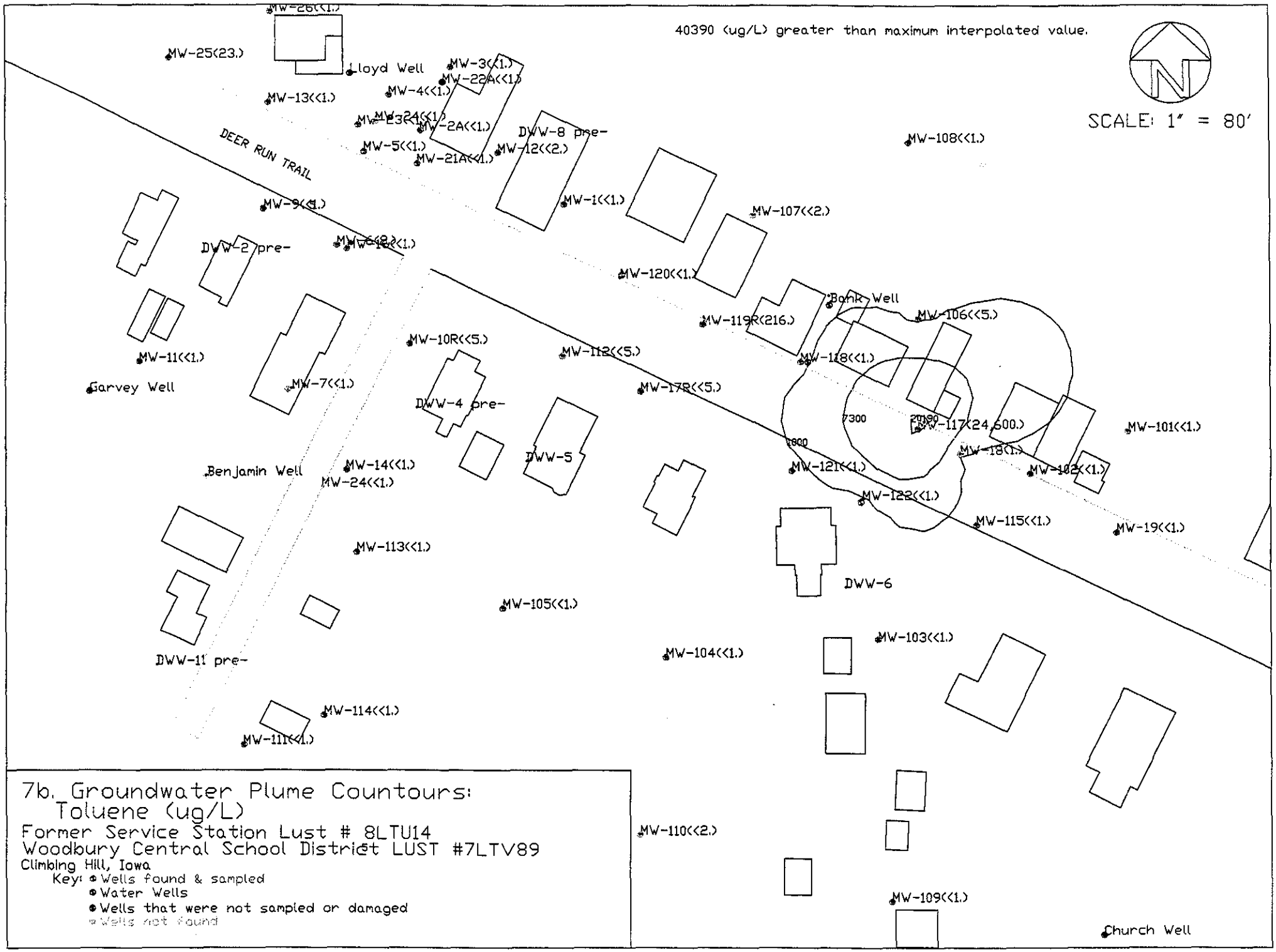
APPENDIX 8

GROUNDWATER CONTAMINATION MAPS



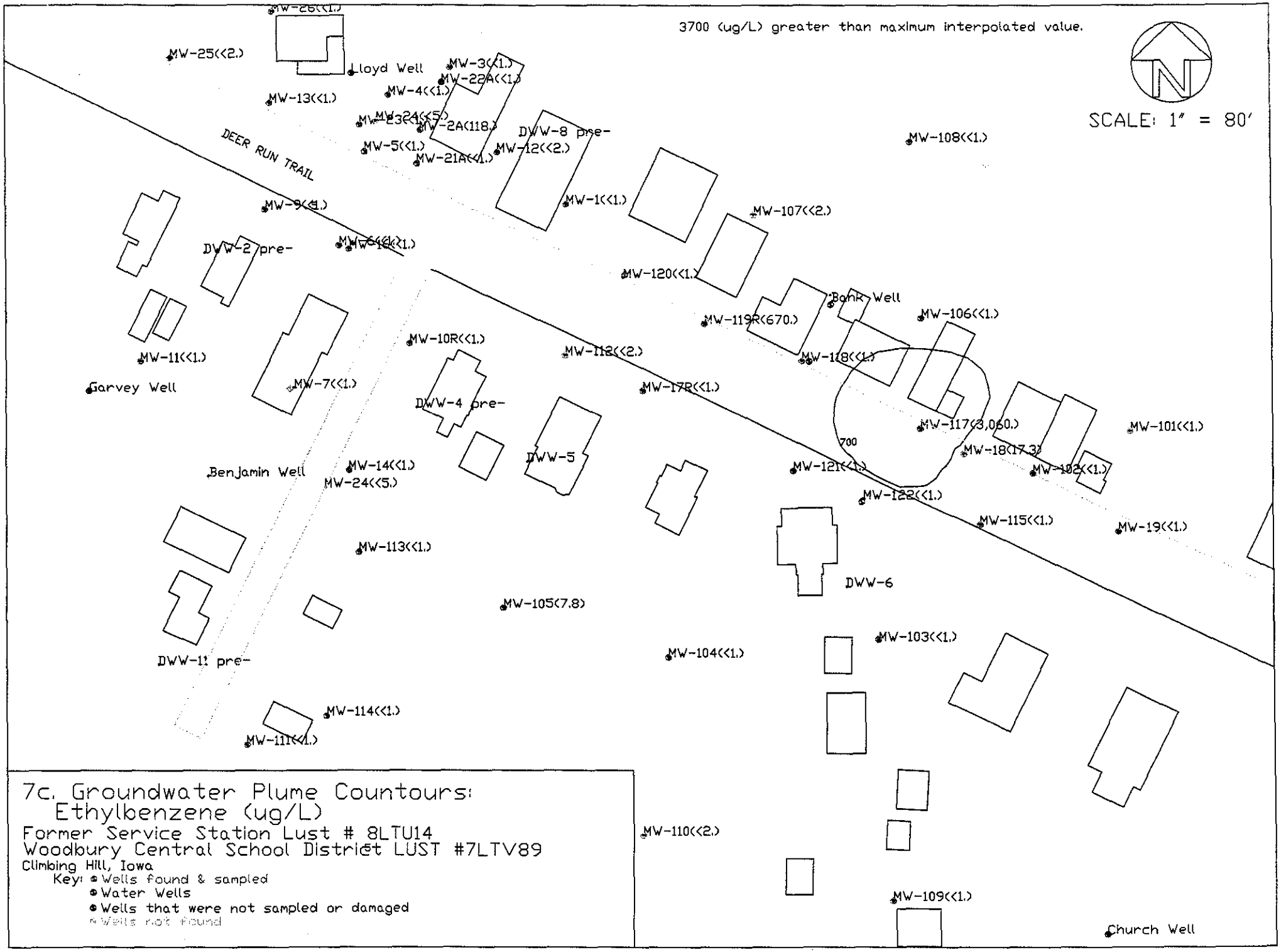
7a. Groundwater Plume Countours:
Benzene (ug/L)
Former Service Station Lust # 8LTU14
Woodbury Central School District LUST #7LTV89
Climbing Hill, Iowa

Key: Wells found & sampled
Water Wells
Wells that were not sampled or damaged
Wells not found



7b. Groundwater Plume Countours:
Toluene (ug/L)
Former Service Station Lust # 8LTU14
Woodbury Central School District LUST #7LTV89
Climbing Hill, Iowa

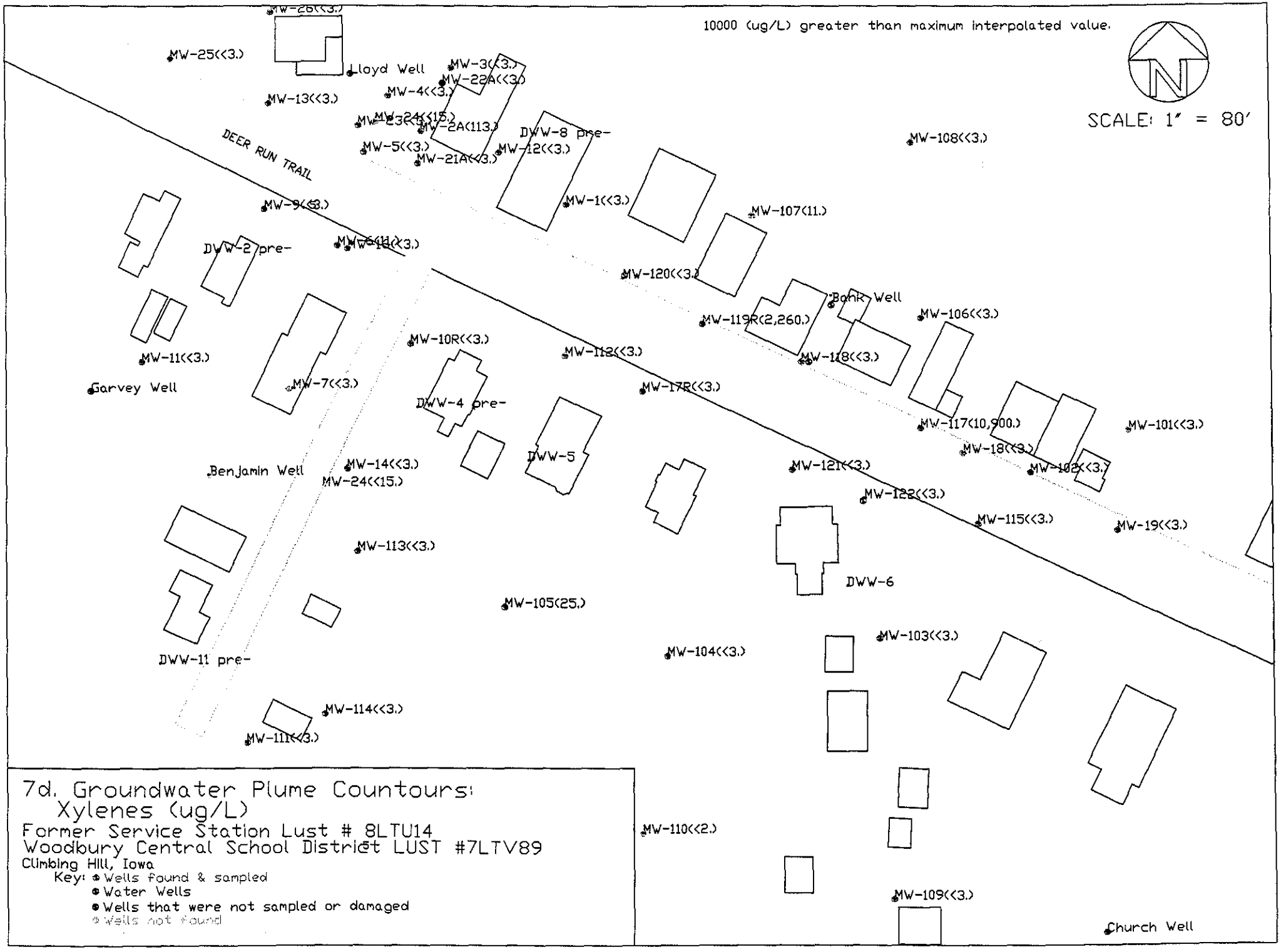
Key:
- Wells found & sampled
- Water Wells
- Wells that were not sampled or damaged
- Wells not found



7c. Groundwater Plume Countours: Ethylbenzene (ug/L)

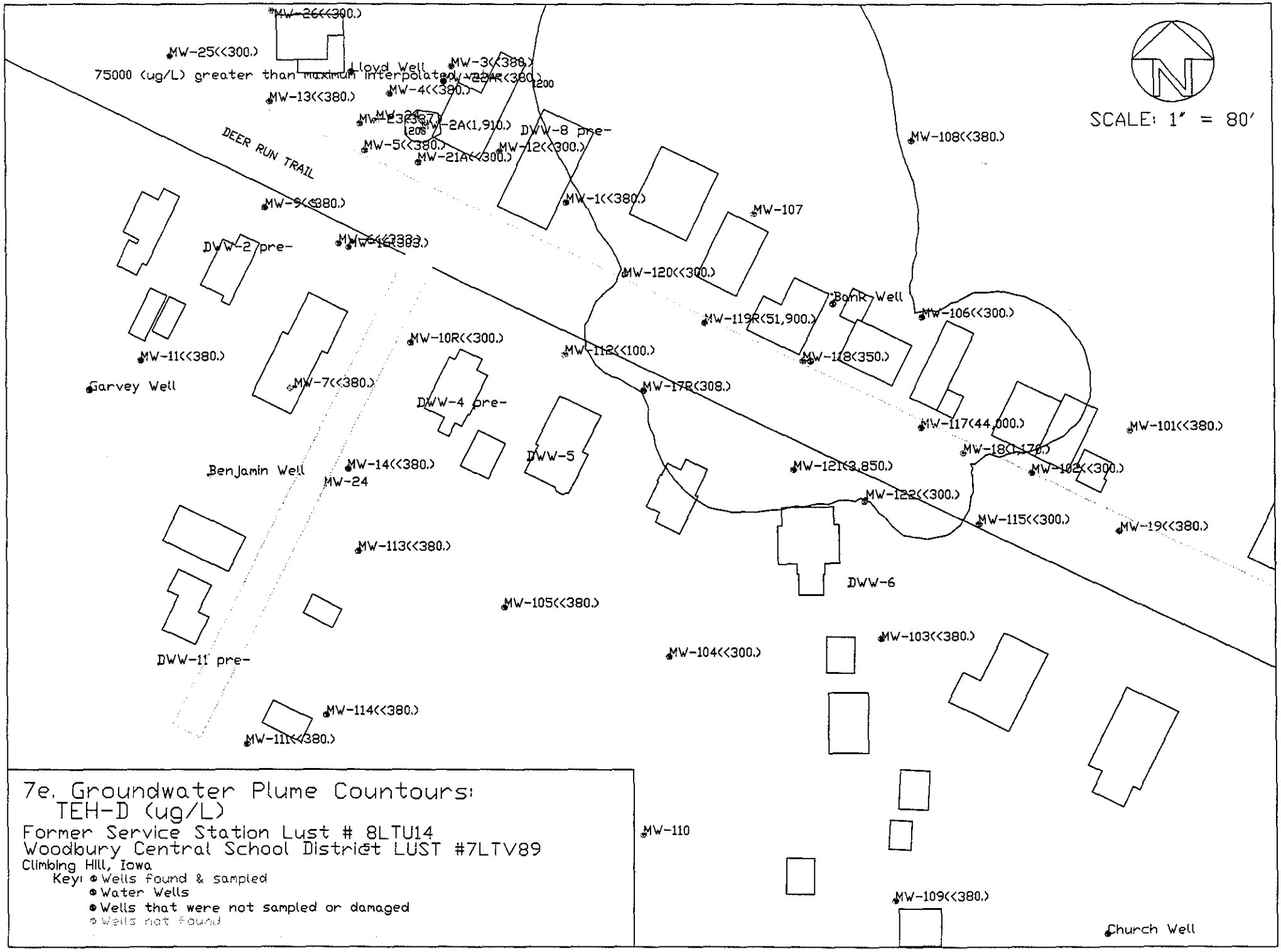
Former Service Station Lust # 8LTU14
Woodbury Central School District LUST #7LTV89
Climbing Hill, Iowa

Key:
- Wells found & sampled
- Water Wells
- Wells that were not sampled or damaged
- Wells not found



7d. Groundwater Plume Countours:
Xylenes (ug/L)
Former Service Station Lust # 8LTU14
Woodbury Central School District LUST #7LTV89
Climbing Hill, Iowa

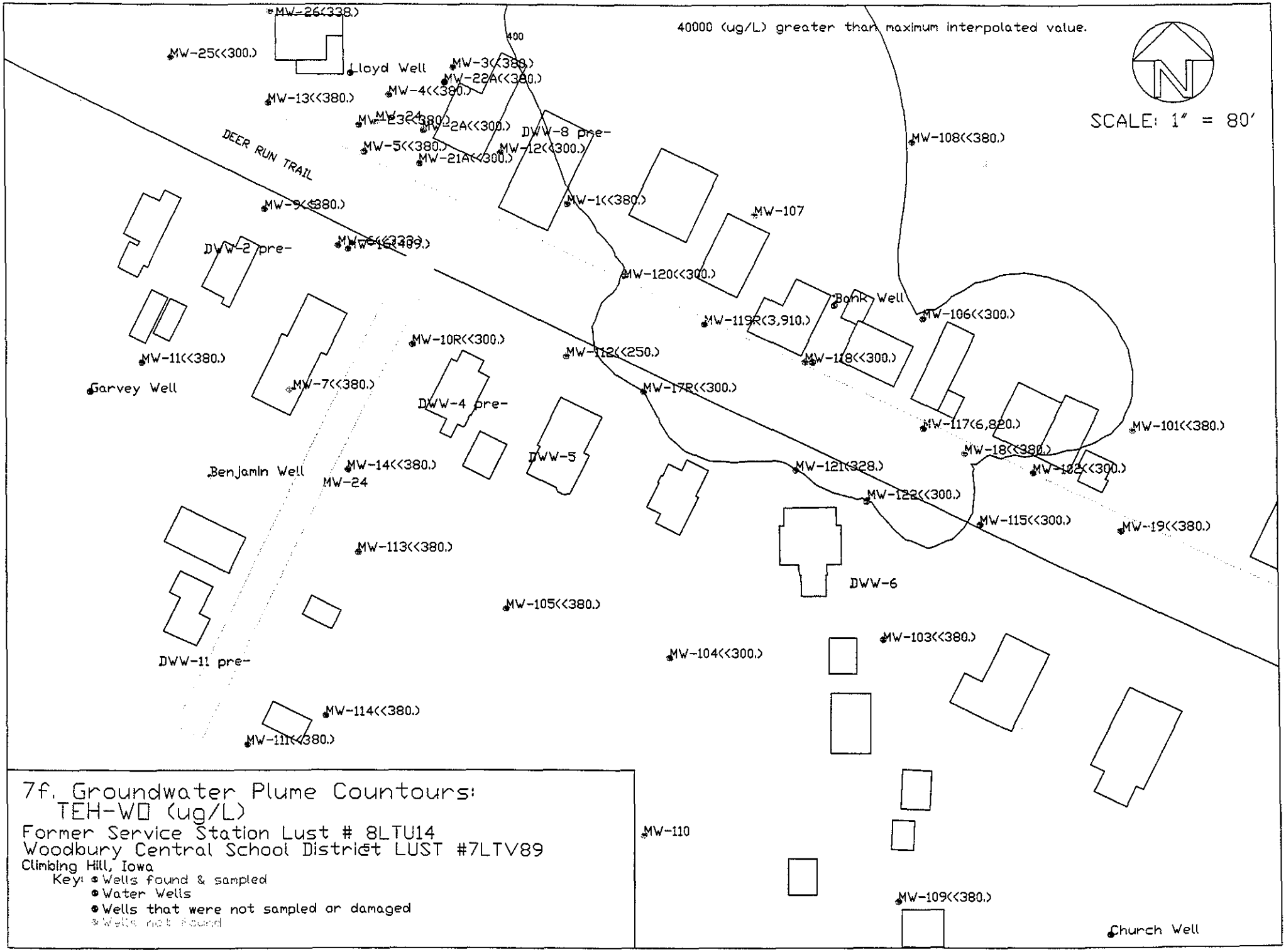
Key:
- Wells found & sampled
- Water Wells
- Wells that were not sampled or damaged
- Wells not found



7e. Groundwater Plume Countours:
TEH-D (ug/L)

Former Service Station Lust # 8LTU14
Woodbury Central School District LUST #7LTV89
Climbing Hill, Iowa

Key: • Wells found & sampled
• Water Wells
• Wells that were not sampled or damaged
• Wells not found



7f. Groundwater Plume Countours:
TEH-W□ (ug/L)
Former Service Station Lust # 8LTU14
Woodbury Central School District LUST #7LTV89
Climbing Hill, Iowa

Key: ● Wells found & sampled
● Water Wells
● Wells that were not sampled or damaged
● Wells not found

APPENDIX 9

GROUNDWATER FLOW DIRECTION MAP

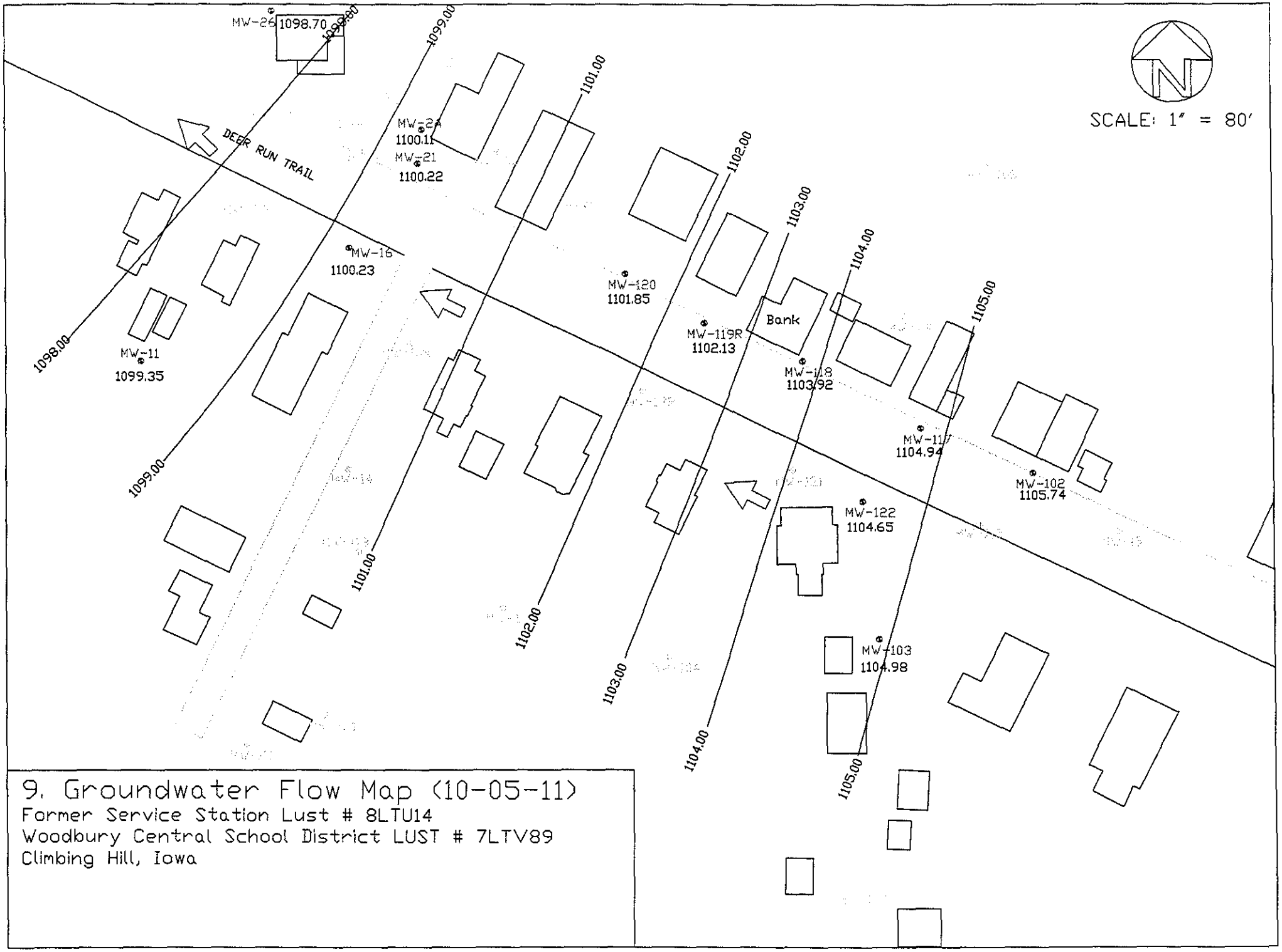
NORTHWEST ENVIRONMENTAL SERVICES, INC.	Work Order:	CUJ0310	Received:	10/06/11
1003 4th Ave., P.O. Box 401			Reported:	10/13/11 16:21
Alton, IA 51003	Project:	Climbing Hill, Iowa		
Dan Ruppert	Project Number:	[none]		

Approved By:

Angela Muehling

Iowa UST Lab Certification No. 007

TestAmerica Cedar Falls
Angela Muehling
Project Coordinator



9. Groundwater Flow Map (10-05-11)
Former Service Station Lust # 8LTU14
Woodbury Central School District LUST # 7LTV89
Climbing Hill, Iowa

APPENDIX 12

DOCUMENTATION

Well Search Print | Help |

Well Search Report

Subject: Program ID: 8LTU14
Site Name: Former Gas Station
Address: DEER RUN TRAIL Climbing Hill IA, 510150000
XY UTM Coordinates: 246375/4692364
Search Radius (feet): 1000

Date: 10/17/2011

Included in search	No. of wells	Database
X	1	IGS well database General well database maintained by IGS, location accuracy varies 3,730 to 25 ft., last updated 8/2005.
X	0	Public wells Muncipal and nonmunicipal public well databases maintained by IGS, location varies 3,730 to 25 ft., under development.
X	1	SDWIS public wells Public well database developed from the Safe Drinking Water Information System database maintained by IDNR, estimated locational accuracy varies from 15m. to 3300m. Created from 5/2005 data.
X	10	Private well tracking system IDNR database management system for Grants-to-counties-covered wells. Locational accuracy unknown, assumed to be +/- 17 m., Last update 7/2005.
X	7	Wells registered for testing Wells tested under Grant-to-Counties program. Locational accuracy varies 1150 to 150 m.; Last update 9/2001, no future updates planned.
X	1	Permitted private wells Wells permitted under Grant-to-Counties program. Locational accuracy varies 1150 to 150 m.; Last update 9/2001, no future updates planned.
X	0	Registered abandoned wells Wells abandoned under Grant-to-Counties program. Locational accuracy varies 1150 to 150 m.; Last update 9/2001, no future updates planned.
X	0	Water use facilities Wells used by facilities permitted to withdraw >25,000 gallons per day, locational accuracy is +/-20m to 1150 m. Created from 7/2005 data.
X	0	Municipal wells and intakes Locational accuracy 220 m., last updated 8/96.
X	0	Ag drainage wells Locational accuracy 100 m., last updated 4/98.

Well Search Detail

Subject: XY UTM Coordinates: 246377/4692365
Search Radius (feet): 1000

IGS Well Database

Map ID	Well No.	Location	Accuracy	Dist. From Point	Well Depth	Construction/ Permit Date	Owner/Permittees	Other Information
19647	35761	T. 87N., R. 45W., Sec. 16, SE, SE, SE	Calc. +/- 140 m.	206 (m)	82	11/30/1993	Benjamin, Pat	Well type: Private

Public Wells

Map ID	Well No.	Location	Accuracy	Dist. From Point	Well Depth	Construction/ Permit Date	Owner/Permittees	Other Information
No records found from this data source								

SDWIS public wells

Map ID	Well No.	Location	Accuracy	Dist. From Point	Well Depth	Construction/ Permit Date	Owner/Permittees	Other Information
19699	2412138	T87N, R45W, Sec. 21, NE, NE, NE	+/- 15 m.	38 (m)	unkn		First Trust And Savings, Climbing Hill	Well # 1 ( ); PWSID: 9715869; Status: Inactive

Private Well Tracking System

Map ID	Well No.	Location	Accuracy	Dist. From Point	Well Depth	Construction/ Permit Date	Owner/Permittees	Other Information
19598	2092688	T. 87 N., R. 45W., Sec. 16, SW, SW, SE, SW, NW	nom. +/- 25m.	279 (m)	78	07/26/2003		Status: Active; Well use: Household
19642	2095449	T. 87 N., R. 45W., Sec. 16, SW, SW, SE, SW, NE	nom. +/- 25m.	219 (m)	122	11/07/2003		Status: Retired; Well use: Household, Livestock
19707	2120756	T. 87 N., R. 45W., Sec. 21, NE, NE, NE, NE, SE	nom. +/- 25m.	44 (m)	1	01/01/1846	BENJAMIN, PAT	Status: Active; Well use: Household
19715	2124943	T. 87 N., R. 45W., Sec. 21, NE, NE, NE, SW, NE	nom. +/- 25m.	24 (m)	93	06/23/1987	BORAOWSKI, RUSSELL	Status: Active; Well use: Household
19655	2106776	T. 87 N., R. 45W., Sec.	nom. +/- 25m.	200 (m)	72	06/10/1974	LITTLE, GARRETT	Status: Plugged; Well use:

		16, SW, SW, SW, SE, NE						Household
19662	2145826	T. 87 N., R. 45W., Sec. 16, SW, SE, SW, SW, NE	nom. +/- 25m.	301 (m)	75	12/22/2009	PESCHEL, SHANNON	Status: Active Log; Well use: Household
19688	2095450	T. 87 N., R. 45W., Sec. 16, SW, SW, SW, NW, SW	nom. +/- 25m.	33 (m)	135	04/01/2004	ROGERS, PATRICK	Status: Retired; Well use: Household
19704	2098533	T. 87 N., R. 45W., Sec. 21, NE, NE, NE, NE, SW	nom. +/- 25m.	52 (m)	120	01/01/1985	SCHLEIS, CHARLES	Status: Active; Well use: Household
19661	2107458	T. 87 N., R. 45W., Sec. 21, NE, NE, NW, NE, SE	nom. +/- 25m.	224 (m)	100	03/01/2004	SCHULZ, KAY	Status: Active; Well use: Household
19761	2094355	T. 87 N., R. 45W., Sec. 22,	nom. +/- 25m.	104 (m)	200	01/01/1980	WEST, DOUG	Status: Active; Well use: Household

Wells Registered For Testing

Map ID	Well No.	Location	Accuracy	Dist. From Point	Well Depth	Construction/ Permit Date	Owner/Permittees	Other Information
19652	71441	T. 87 N., R. 45 W., Sec. 16, SE, SE, SE	Calc. +/- 140m.	206 (m)	unkn	unkn	Hass, Marie	Drilling method: Unknown; Well depth is uncertain
19775	61313	T. 87 N., R. 45 W., Sec. 21, NE, NE, SE	Calc. +/- 140m.	197 (m)	150	1960	Kunze, Robin	Drilling method: Drilled; Known well depth
19779	55004	T. 87 N., R. 45 W., Sec. 21, NE, NE, SE	Calc. +/- 140m.	194 (m)	150	1960	Kunze, Robin	Drilling method: Drilled; Known well depth
19748	9202	T. 87 N., R. 45 W., Sec. 21, NE, NE	Calc. +/- 285m.	151 (m)	90	unkn	McCoy, Marilyn	; Estimated well depth
19742	36343	T. 87 N., R. 45 W., Sec. 21, NE, NE	Calc. +/- 285m.	156 (m)	95	unkn	McCoy, Monty	Drilling method: Unknown; Known well depth
19740	69463	T. 87 N., R. 45 W., Sec. 21, NE, NE	Calc. +/- 285m.	150 (m)	101	1968	Mead, Larry	Drilling method: Drilled; Known well depth
19734	36260	T. 87 N., R. 45 W., Sec.	Calc. +/- 285m.	152 (m)	77	unkn	Ross, Margie J.	Drilling method: Drilled;

		21, , , , NE, NE						

Permitted Private Wells

Map ID	Well No.	Location	Accuracy	Dist. From Point	Well Depth	Construction/ Permit Date	Owner/Permittees	Other Information
19654	28023	T. 87 N., R. 45 W., Sec. 16, SE, SE, SE	Calc. +/- 140m.	202 (m)	250	1/10/2001	Smith, Steve	Primary use: monitoring

Abandoned Wells (plugged)

Map ID	Well No.	Location	Accuracy	Dist. From Point	Well Depth	Construction/ Permit Date	Owner/Permittees	Other Information
No records found from this data source								

Water Use Facilities

Map ID	Well No.	Location	Accuracy	Dist. From Point	Well Depth	Construction/ Permit Date	Owner/Permittees	Other Information
No records found from this data source								

Municipal Wells And Intakes

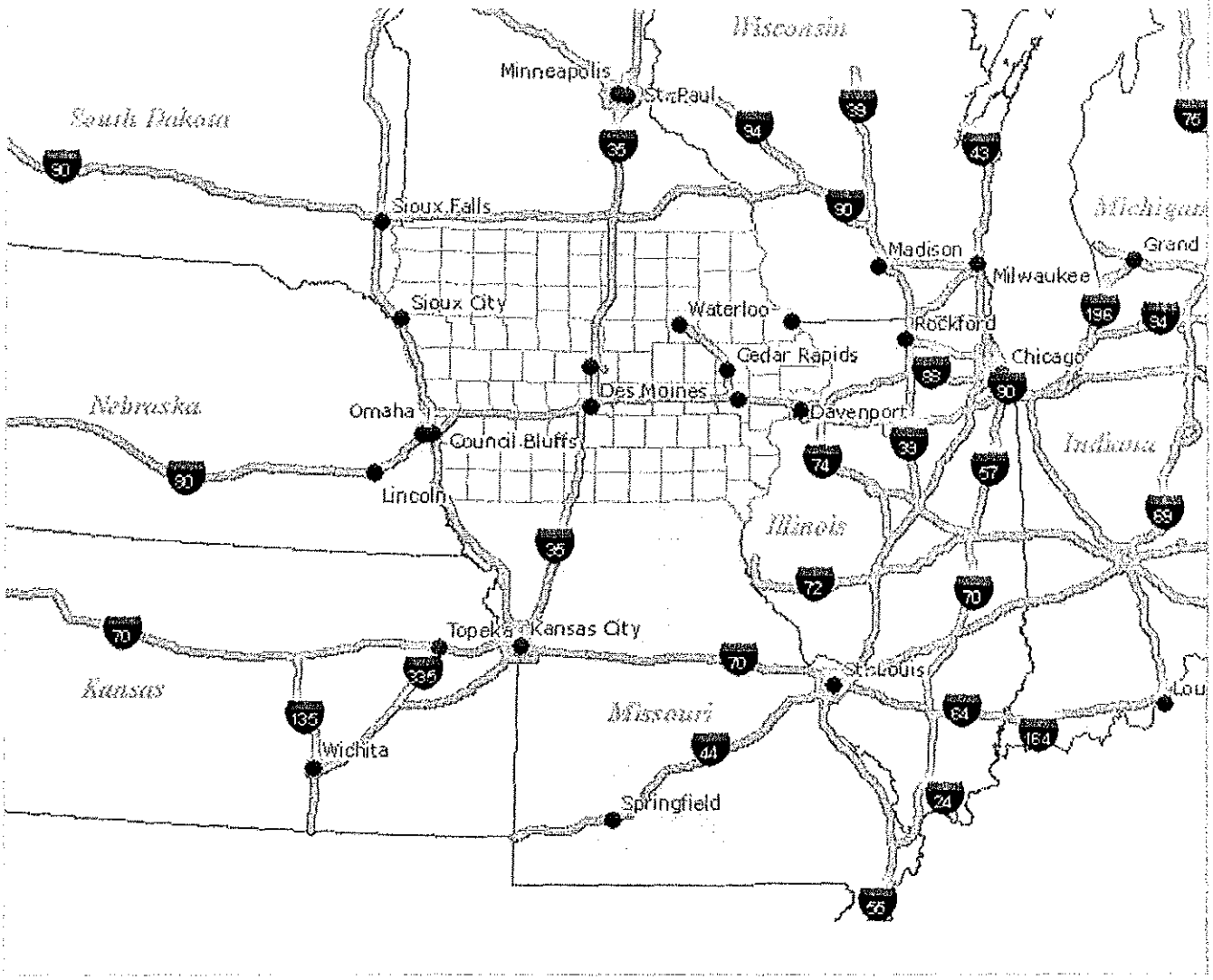
Map ID	Well No.	Location	Accuracy	Dist. From Point	Well Depth	Construction/ Permit Date	Owner/Permittees	Other Information
No records found from this data source								

Ag Drainage Wells

Map ID	Well No.	Location	Accuracy	Dist. From Point	Well Depth	Construction/ Permit Date	Owner/Permittees	Other Information
No records found from this data source								

Well Search Buffered Map

Subject: XY UTM Coordinates: 246377/4692365
Search Radius (feet): 1000



Map Notes:

- ■ UST
- ★ LUST
- ✳ Wells
- Please refer to the Accuracy column in Well Search Detail.
- Since multiple points can be at the same spot (as those located to the center of a quarter section), points were randomly dispersed within 10 meters around that spot so all points can be seen.

Well Search Print | Help |

Well Search Report

Subject: Program ID: 7LTV89
Site Name: Woodbury Central Schools
Address: 79 HWY D54 W Climbing Hill IA, 510150000
XY UTM Coordinates: 246258/4692436
Search Radius (feet): 1000

Date: 10/17/2011

Included in search	No. of wells	Database
X	2	IGS well database General well database maintained by IGS, location accuracy varies 3,730 to 25 ft., last updated 8/2005.
X	1	Public wells Muncipal and nonmunicipal public well databases maintained by IGS, location varies 3,730 to 25 ft., under development.
X	2	SDWIS public wells Public well database developed from the Safe Drinking Water Information System database maintained by IDNR, estimated locational accuracy varies from 15m. to 3300m. Created from 5/2005 data.
X	12	Private well tracking system IDNR database management system for Grants-to-counties-covered wells. Locational accuracy unknown, assumed to be +/- 17 m., Last update 7/2005.
X	8	Wells registered for testing Wells tested under Grant-to-Counties program. Locational accuracy varies 1150 to 150 m.; Last update 9/2001, no future updates planned.
X	1	Permitted private wells Wells permitted under Grant-to-Counties program. Locational accuracy varies 1150 to 150 m.; Last update 9/2001, no future updates planned.
X	0	Registered abandoned wells Wells abandoned under Grant-to-Counties program. Locational accuracy varies 1150 to 150 m.; Last update 9/2001, no future updates planned.
X	0	Water use facilities Wells used by facilities permitted to withdraw >25,000 gallons per day, locational accuracy is +/-20m to 1150 m. Created from 7/2005 data.
X	0	Municipal wells and intakes Locational accuracy 220 m., last updated 8/96.
X	0	Ag drainage wells Locational accuracy 100 m., last updated 4/98.

Well Search Detail

Subject: XY UTM Coordinates: 246259/4692437
Search Radius (feet): 1000

IGS Well Database

Map ID	Well No.	Location	Accuracy	Dist. From Point	Well Depth	Construction/ Permit Date	Owner/Permittees	Other Information
19647	35761	T. 87N., R. 45W., Sec. 16, SE, SE, SE	Calc. +/- 140 m.	170 (m)	82	11/30/1993	Benjamin, Pat	Well type: Private
19613	58755	T. 87N., R. 45W., Sec. 16, SE, SE, SW, SW, SW	GPS	197 (m)	65		The Barn (climbing Hill)	Well type: Public access

Public Wells

Map ID	Well No.	Location	Accuracy	Dist. From Point	Well Depth	Construction/ Permit Date	Owner/Permittees	Other Information
19604	58755	T. 87N., R. 45W., Sec. 16, SW SW SE SE SE	GPS	197 (m)	65		The Barn (climbing Hill)	Local name: The Barn (climbing Hill) #1; Status: Not Used

SDWIS public wells

Map ID	Well No.	Location	Accuracy	Dist. From Point	Well Depth	Construction/ Permit Date	Owner/Permittees	Other Information
19699	2412138	T87N, R45W, Sec. 21, NE, NE, NE	+/- 15 m.	107 (m)	unkn		First Trust And Savings, Climbing Hill	Well # 1 ( ); PWSID: 9715869; Status: Inactive
19607	2577673	T87N, R45W, Sec. 16, SE, SE, SW	+/- 15 m.	197 (m)	82		The Barn (climbing Hill)	Plugged Well #1; PWSID: 9715201; Status: Inactive

Private Well Tracking System

Map ID	Well No.	Location	Accuracy	Dist. From Point	Well Depth	Construction/ Permit Date	Owner/Permittees	Other Information
19598	2092688	T. 87 N., R. 45W., Sec. 16, SW, SW, SE, SW, NW	nom. +/- 25m.	161 (m)	78	07/26/2003		Status: Active; Well use: Household
19642	2095449	T. 87 N., R. 45W., Sec. 16, SW, SW,	nom. +/- 25m.	121 (m)	122	11/07/2003		Status: Retired; Well use: Household,

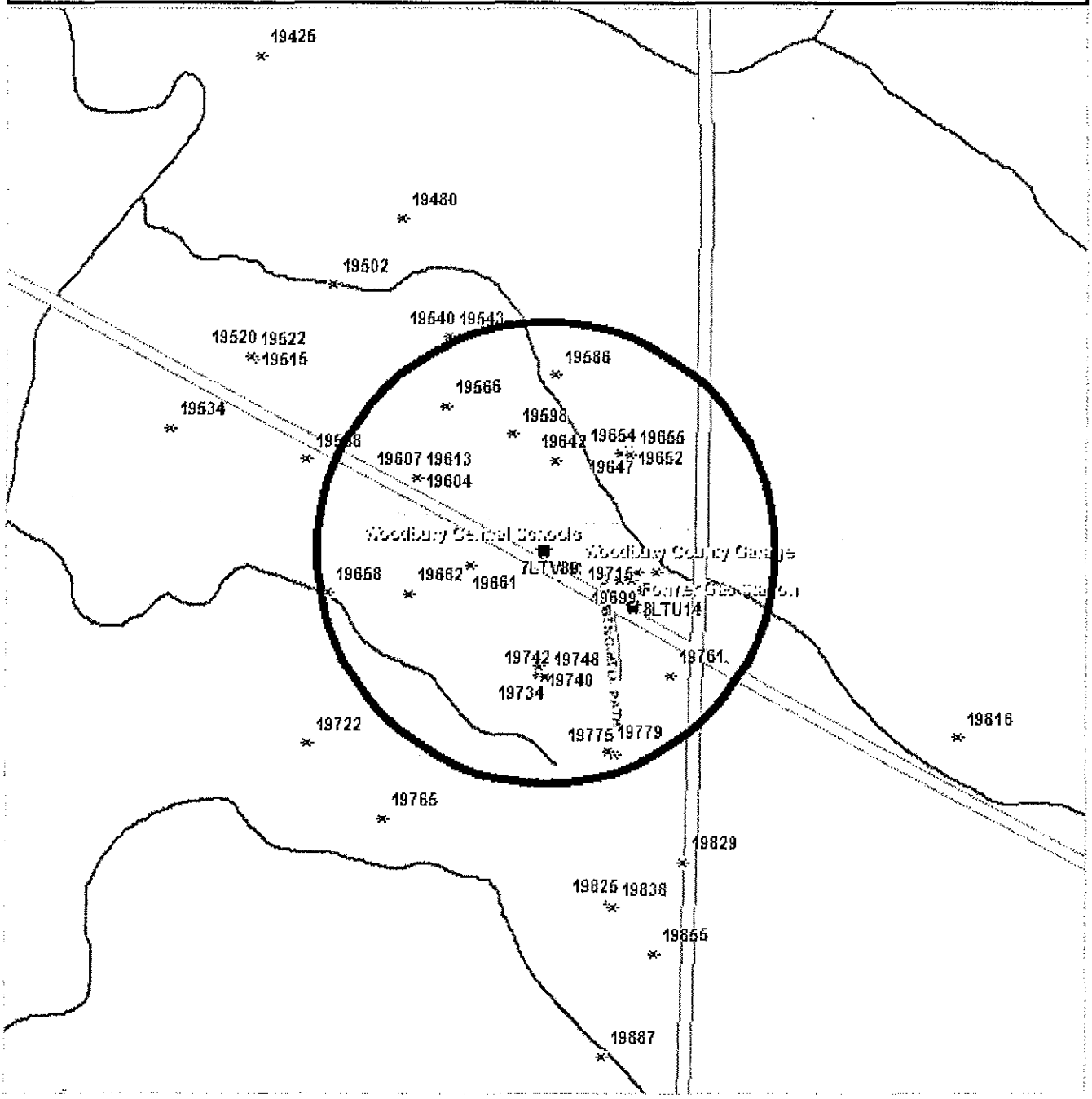
		SE, SW, NE						Livestock
19707	2120756	T. 87 N., R. 45W., Sec. 21, NE, NE, NE, NE, SE	nom. +/- 25m.	126 (m)	1	01/01/1846	BENJAMIN, PAT	Status: Active; Well use: Household
19715	2124943	T. 87 N., R. 45W., Sec. 21, NE, NE, NE, SW, NE	nom. +/- 25m.	140 (m)	93	06/23/1987	BORAOWSKI, RUSSELL	Status: Active; Well use: Household
19658	2135100	T. 87 N., R. 45W., Sec. 16, SW, SE, SW, SE, NE	nom. +/- 25m.	295 (m)	90	05/01/1992	GOODRICH, DAVID	Status: Active; Well use: Household
19655	2106776	T. 87 N., R. 45W., Sec. 16, SW, SW, SW, SE, NE	nom. +/- 25m.	170 (m)	72	06/10/1974	LITTLE, GARRETT	Status: Plugged; Well use: Household
19662	2145826	T. 87 N., R. 45W., Sec. 16, SW, SE, SW, SW, NE	nom. +/- 25m.	192 (m)	75	12/22/2009	PESCHEL, SHANNON	Status: Active Log; Well use: Household
19688	2095450	T. 87 N., R. 45W., Sec. 16, SW, SW, SW, NW, SW	nom. +/- 25m.	121 (m)	135	04/01/2004	ROGERS, PATRICK	Status: Retired; Well use: Household
19704	2098533	T. 87 N., R. 45W., Sec. 21, NE, NE, NE, NE, SW	nom. +/- 25m.	150 (m)	120	01/01/1985	SCHLEIS, CHARLES	Status: Active; Well use: Household
19661	2107458	T. 87 N., R. 45W., Sec. 21, NE, NE, NW, NE, SE	nom. +/- 25m.	102 (m)	100	03/01/2004	SCHULZ, KAY	Status: Active; Well use: Household
19566	2124938	T. 87 N., R. 45W., Sec. 16, SW, SW, SE, NW, SE	nom. +/- 25m.	234 (m)	80	08/15/1982	STEINHAUER, PHYLLIS	Status: Active; Well use: Household
19761	2094355	T. 87 N., R. 45W., Sec. 22,	nom. +/- 25m.	234 (m)	200	01/01/1980	WEST, DOUG	Status: Active; Well use: Household

Wells Registered For Testing

Map ID	Well No.	Location	Accuracy	Dist. From Point	Well Depth	Construction/ Permit Date	Owner/Permittees	Other Information
19586	18136	T. 87 N., R. 45 W., Sec. 16, SE, SE	Calc. +/- 285m.	233 (m)	61	1984	Carlson, Barbara	Drilling method: Drilled; Known well depth
19652	71441	T. 87 N., R.	Calc. +/-	173	unkn	unkn	Hass, Marie	Drilling method:

Well Search Buffered Map

Subject: XY UTM Coordinates: 246259/4692437
Search Radius (feet): 1000



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- ✳ Wells
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TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
704 Enterprise Drive Cedar Falls, IA 50613 * 800-750-2401 * Fax 319-277-2425

NORTHWEST ENVIRONMENTAL SERVICES, INC.
1003 4th Ave., P.O. Box 401
Alton, IA 51003
Dan Ruppert

Work Order: CUJ0310
Project: Climbing Hill, Iowa
Project Number: [none]

Received: 10/06/11
Reported: 10/13/11 16:21

ANALYTICAL REPORT

Analyte	Sample Result	Data Qualifiers	Units	Quan. Limit	Dilution Factor	Date Analyzed	Analyst	Seq/ Batch	Method
Sample ID: CUJ0310-03 (MW-21A - Ground Water)					**Sampled: 10/05/11**			**Recvd: 10/06/11 09:00**	
Sampled By: Dan Ruppert				**Phone**	**712-756-4732**				
UST Volatile Compounds by GC/MS									
Benzene	<1.00		ug/L	1.00	1	10/09/11 14:38	sjn	11J0555	SW 8260B/OA-1
Toluene	<1.00		ug/L	1.00	1	10/09/11 14:38	sjn	11J0555	SW 8260B/OA-1
Ethylbenzene	<1.00		ug/L	1.00	1	10/09/11 14:38	sjn	11J0555	SW 8260B/OA-1
Xylenes, total	<3.00		ug/L	3.00	1	10/09/11 14:38	sjn	11J0555	SW 8260B/OA-1
Methyl tert-Butyl Ether	<1.00		ug/L	1.00	1	10/09/11 14:38	sjn	11J0555	SW 8260B/OA-1
Surr: Dibromofluoromethane (75-120%)	*86 %*								
Surr: Toluene-d8 (80-120%)	*95 %*								
Surr: 4-Bromofluorobenzene (75-110%)	*103 %*								
VOC Preservation Check									
pH	<2.00		units	2.00	1	10/12/11 14:13	ztb	11J0589	SW
UST ANALYSIS PARAMETERS									
Total Extractable Hydrocarbons	**369**		ug/L	300	1	10/11/11 02:08	jdb	[CALC]	OA-2 - 8015B
Diesel	<300		ug/L	300	1.04	10/11/11 02:08	jdb	11J0269	OA-2 - 8015B
Gasoline	**369**	Q	ug/L	300	1.04	10/11/11 02:08	jdb	11J0269	OA-2 - 8015B
Motor Oil	<300		ug/L	300	1.04	10/11/11 02:08	jdb	11J0269	OA-2 - 8015B
Surr: Octacosane (55-150%)	*90 %*								