Seneca Companies

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The Complete Solution

CON 12-15
Doc #28832

January 6, 2014

Fred McElwee
Fairfield Community Schools
605-607 E. Broadway
Fairfield, IA 52556

Subject: Submittal of the 2013 Site Monitoring Report (SMR) for Fairfield Community Schools, 405 South 20th Street, Fairfield, Iowa Spill #032008-ahb-1021

Dear Mr. McElwee:

Please find the Site Monitoring Report (SMR) for the above referenced location. The SMR presents the results of sampling during the past year, and is required until exit conditions are met for a no action required risk rating.

Reclassification is not requested at this time. Groundwater concentrations remain high at BH2/MW, and are still above established SSTLs. The PWL receptor is still classified as high risk for benzene. Additional corrective action may be necessary in the future to met DNR target levels. Free product was not observed during the 2013 sampling event. Annual groundwater monitoring will continue until conditions have been met for a no action required risk rating. Again, reclassification is not requested at this time. This site will remain high risk.

One (1) copy of the reports is for your records. Please sign and date the additional report copy and forward to the address listed below.

Mr. Matt Culp
Contaminated Sites
Iowa Department of Natural Resources
502 E. 9th Street
Des Moines, Iowa 50319

Seneca Companies thanks you for the opportunity to serve you in this matter. If you have any questions regarding this report, please call me at 563-332-8000.

Sincerely,
Seneca Environmental Services

Todd Felderman
Project Manager, CGP# 2044

cc: JF# 6341403

IDNR

Site Monitoring Report for Leaking Underground Storage Tank Sites

Iowa Department of Natural Resources

IDNR

SITE IDENTIFICATION

LUST No.	Spill No. 032008-AHB-1021	UST Registration No.	

Site Name:	Fairfield Community Schools
Site Address:	405 South 20th Street
City:	Fairfield

RESPONSIBLE PARTY IDENTIFICATION

Name:	Fairfield Schools c/o Fred McElwee		Phone #: 641-472-5252
Street:	605-607 E Broadway		
City:	Fairfield	State: IA	Zip Code: 52556

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, Todd Felderman, Groundwater Professional Certification No. 2044, 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. _____, LUST No. Spill No. 032008-AHB-1021 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

Todd Felderman

Seneca Environmental Services

7241 Gaines St Ct

Davenport, IA 52806

Signature: Todd Felderman

Phone #: 563-332-8000

Date: 01/06/2014

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

Fairfield Schools c/o Fred McElwee

Print: Name of Responsible Party

Signature - Responsible Party

Official IDNR Use Only

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

Version 2.51 - June 2002

RECD JAN16'14 AM 8:41

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**

APPENDICES:

[X] 1. Evaluation of analytical data
[X] 2. Site plan map
[X] 3. Site vicinity map
[ ] 4. Soil summary corrective action map
[X] 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
PWL	main, H20MAIN	H	H	H	N*	N*	N*	N*	N*	N		H
PGWS	No-IC	L	L	L	L	L	N*	N*	N*	N		L
PGWS	IC	L	L	L	L	L	N*	N*	N*	N		L
PCS	No-IC	L	L	L	N*	N*	N/A	N*	N/A	N		L

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 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	Group1 T	Group1 E	TEH D	Corr. Action Taken?	Corrective Action(s) Completed	Current Risk
PCSNR	Source, SV	L	L	L	N	N	N	N		L
PSSNR	East, PSS EAST		N	N	N	N/A	N	N		N

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, Spill No. 032008-AHB-1021**

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) Iowa DNR Online Welll Search , ,		01/03/2014
		2) Dan Miller Jefferson County Sanitarian 220 West Jefferson Fairfield, IA, 52556	641 472-2561	8/16/2012
		3) Visual survey by Rich Vogel Seneca Environmental 7241 Gaines St Ct Davenport, Iowa, 52806	563 332-8000	09/05/2013
New non-drinking water well(s)? [1,000']	No	1) Iowa DNR Online Welll Search , ,		01/03/2014
		2) Dan Miller Jefferson County Sanitarian 220 West Jefferson Fairfield, IA, 52556	641 472-2561	8/16/2012
		3) Visual survey by Rich Vogel Seneca Environmental 7241 Gaines St Ct Davenport, Iowa, 52806	563 332-8000	09/05/2013
Plugged drinking water well(s)? [1,000']	No	1) Iowa DNR Online Welll Search , ,		01/03/2014
		2) Dan Miller Jefferson County Sanitarian 220 West Jefferson Fairfield, IA, 52556	641 472-2561	8/16/2012
		3) Visual survey by Rich Vogel Seneca Environmental 7241 Gaines St Ct Davenport, Iowa, 52806	563 332-8000	09/05/2013
Plugged non-drinking water well(s)? [1,000']	No	1) Iowa DNR Online Welll Search , ,		01/03/2014
		2) Dan Miller Jefferson County Sanitarian 220 West Jefferson Fairfield, IA, 52556	641 472-2561	8/16/2012
		3) Visual survey by Rich Vogel Seneca Environmental 7241 Gaines St Ct Davenport, Iowa, 52806	563 332-8000	09/05/2013

Potential Receptor Summary **SMR,V-2.51, Spill No. 032008-AHB-1021**

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 plastic water lines(s)? [200']	No	Carl Chandler Fairfield Water Superintendent PO Box 850 Fairfield, IA, 52556	641 472-2358	01/03/2014
Replaced or relocated plastic water line(s)? [200']	No	Carl Chandler Fairfield Water Superintendent PO Box 850 Fairfield, IA, 52556	641 472-2358	01/03/2014
New sanitary sewer(s)? [200']	No	Shawn Worley Fairfield Public Works 112 South Main Street Farfield, IA, 52556	641 472-4750	01/03/2014
Replaced or relocated sanitary sewer(s)? [200']	No	Shawn Worley Fairfield Public Works 112 South Main Street Farfield, IA, 52556	641 472-4750	01/03/2014
New building(s) with basements? [200']	No	1) Visual survey by Rich Vogel Seneca Environmental 7241 Gaines St Ct Davenport, Iowa, 52803 2) Rebecca Loper City Hall 112 South Main Street Fairfield, IA, 52556	563 332-8000 641 472-4181	09/05/2013 01/03/2014
Building(s) with basement(s) removed? [200']	No	1) Visual survey by Rich Vogel Seneca Environmental 7241 Gaines St Ct Davenport, Iowa, 52803 2) Rebecca Loper City Hall 112 South Main Street Fairfield, IA, 52556	563 332-8000 641 472-4181	09/05/2013 01/03/2014
Zoning changes? [200']	No	Rebecca Loper City Hall 112 South Main Street Fairfield, IA, 52556	641 472-4181	01/03/2014

Receptors: Status change	**SMR,V-2.51, Spill No. 032008-AHB-1021**

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.).

Well #: 2101962 owned by a Duane Cline was listed on the Iowa DNR online well search. The status of the well is listed as plugged.

Ms. Rebecca Loper with the City of Fairfield was uncertain about any new basement changes to the receptor survey. When asked she stated that should couldn't tell us (Seneca Environmental) with certainity if there were new basements or changes to basements within the area because the City of Fairfield does not require a permit for below ground construction.

The Jefferson County Assessors web page was utilizied as a tool in checking local properties for basements and basement changes. The web search yeilded no changes to basements nor were there any basements within the 200' radius.

A visual survey was also conducted by Mr. Rich Vogel, a Field Technician for Seneca Environmental, on 09/05/2013 which also returned no basements or changes to basements within the 200' radius.

Mr. Carl Chandler, Fairfield Water Superintendent, stated that the City of Fairfield requires service lines running from the water main to the meter to be copper.

Site Reclassification	**SMR,V-2.51, Spill No. 032008-AHB-1021**

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.

Reclassification is not requested at this time. Benzene groundwater concentrations have decreased at BH2/MW. The PWL receptor is still classified as high risk for benzene. Additional corrective action may be necessary in the future. Free product was not identified in BH2/MW during the 2013 sampling event. Annual groundwater monitoring will continue until conditions have been met for a no action required risk rating. This site will remain high risk.

SMR Groundwater Analytical Data (ug/L), V-2.51, Spill No. 032008-AHB-1021													
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		
MW1	08/07/2008	100.47	100.00	97.47	99.41	537.	2,270.	223.	937.	4,850.	<300.	N	N
BH2/MW	08/07/2008	98.33	97.93	95.33	89.16	5,370.	6,600.	523.	2,280.	586.	<300.	N	N
BH2/MW	07/16/2009	98.33	97.93	95.33	90.21	<20.	40.3	303.	1,120.	N	N	G	N
BH2/MW	08/19/2010	98.33	97.93	95.33	93.79	22,100.	29,200.	1,480.	6,540.	N	N	N	N
BH2/MW	07/12/2011	98.33	97.93	95.33	90.24	23,800.	39,100.	1,740.	7,740.	N	N	N	N
BH2/MW	07/16/2012	98.33	97.93	95.33	87.46	23,600.	20,600.	1,780.	8,370.	N	N	N	N
BH2/MW	09/05/2013	98.33	97.93	95.33	87.73	12,700.	40,100.	7,760.	41,800.	N	N	N	N
MW3	08/07/2008	92.65	92.39	89.65	78.69	3.12	12.6	<2.	4.98	<300.	<300.	N	N
MW3	07/16/2009	92.65	92.39	89.65	87.44	<2.	<2.	<2.	<3.	N	N	N	N
MW3	08/19/2010	92.65	92.39	89.65	89.31	<2.	<2.	<2.	<3.	N	N	N	N
MW3	07/12/2011	92.65	92.39	89.65	88.14	<2.	<2.	<2.	<3.	N	N	N	N
MW3	07/16/2012	92.65	92.39	89.65	85.84	<1.	<1.	<1.	<3.	N	N	N	N
MW3	09/05/2013	92.65	92.39	89.65	86.22	<0.5	<1.	<1.	<3.	N	N	N	N
MW4	08/07/2008	94.19	93.86	91.19	84.11	4.65	18.2	<2.	6.18	<300.	<300.	N	N
MW4	07/16/2009	94.19	93.86	91.19	88.40	<2.	3.81	<2.	4.72	N	N	N	N
MW4	08/19/2010	94.19	93.86	91.19	89.75	<2.	<2.	<2.	<3.	N	N	N	N
MW4	07/12/2011	94.19	93.86	91.19	88.46	<2.	<2.	<2.	<3.	N	N	N	N
MW4	07/16/2012	94.19	93.86	91.19	86.25	<1.	2.25	<1.	3.54	N	N	N	N
MW4	09/05/2013	94.19	93.86	91.19	86.45	<0.5	<1.	<1.	<3.	N	N	N	N
MW7	10/30/2008	101.47	100.86	96.47	82.45	<2.	<2.	<2.	<3.	<300.	541.	N	N
MW7	09/05/2013	101.47	100.86	96.47	88.29	<0.5	<1.	<1.	<3.	N	N	N	N

Soil Vapor, Soil to Plastic Water Line, Tier 2 Defaults **V-2.51, Spill No. 032008-AHB-1021**

Type	Receptor	Soil Vapor, Soil to PWL Tier 2 Defaults (mg/kg)			
		Benzene	Toluene	Ethylbenzene	TEH-Diesel
PCSNR	Source, SV	2.19	75.	124.	74,000.
PSSNR	East, PSS EAST	4.38	150.	N/A	148,000.

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			Chem. Risk	Recept. Curr. Risk	Min. Freq.
						Type	Label	Description			
GW/SL MONITORING PLAN											
MW1	537										
		290	No	N/A	Int.E/Int.E	PGWS	No-IC		L	L	Once
		21,514	Yes	N/A	Int.E/Int.E	PGWS	IC		L	L	Once
BH2/MW	12,700**										
		3,802	No	Yes	S/	PWL	main	H20MAIN	H	H	Annual
		290	No	Yes	S	PGWS	No-IC		L	L	Annual
		477	No	Yes	S	PGWS	IC		L	L	Annual
		4,780	No	Yes	S	PCS	No-IC		L	L	Annual
MW3	<0.500										
		290	Yes	Yes	T-ML/T-ML	PGWS	No-IC		L	L	Annual
		372	Yes	Yes	T-ML/T-ML	PGWS	IC		L	L	Annual
		4,780	Yes	Yes	T-ML/T-ML	PCS	No-IC		L	L	Annual
MW4	<0.500										
		3,799	Yes	Yes	TG/	PWL	main	H20MAIN	H	H	Annual
		290	Yes	Yes	TG/TG	PGWS	No-IC		L	L	Annual
		4,780	Yes	Yes	TG/TG	PCS	No-IC		L	L	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			Chem. Risk	Recept. Curr. Risk	Min. Freq.
						Type	Label	Description			
GW/SL MONITORING PLAN											
BH2/MW	40,100**										
		7,300	No	No	S	PGWS	No-IC		L	L	Annual
		12,033	No	No	S	PGWS	IC		L	L	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			Chem. Risk	Recept. Curr. Risk	Min. Freq.
						Type	Label	Description			
GW/SL MONITORING PLAN											
BH2/MW	7,760**										
		3,700	No	No	S	PGWS	No-IC		L	L	Annual
		6,071	No	No	S	PGWS	IC		L	L	Annual
NFA GW/SL MONITORING RESULTS											

Soil Gas Monitoring Plan Comments/Justification	**SMR,V-2.51, Spill No. 032008-AHB-1021**
Soil gas sampling at BH3 at a depth of 5' is recommended to clear the low risk Soil Vapor pathway.	

Soil Gas Monitoring Plan Summary Table		**SMR,V-2.51, Spill No. 032008-AHB-1021**
Location	Receptor	Frequency
SG1	Soil Source	Annual

Appendix 1
Evaluation of analytical data

Evaluation of Analytical Data

Groundwater sampling was conducted on 09/05/2013. Groundwater samples were analyzed by Test America, Inc., located in Cedar Falls, Iowa, for benzene, toluene, ethylbenzene, and total xylenes (BTEX).

BH2/MW: Results indicate a benzene concentration of 12,700 ppb which is a decrease and a toluene concentration of 40,100 ppb which has increased. SSTLs and steady and declining criteria have not been met. This is the source well for benzene and toluene and will continue to be monitored annually. During the 2013 sampling event Free Product was not observed in this well.

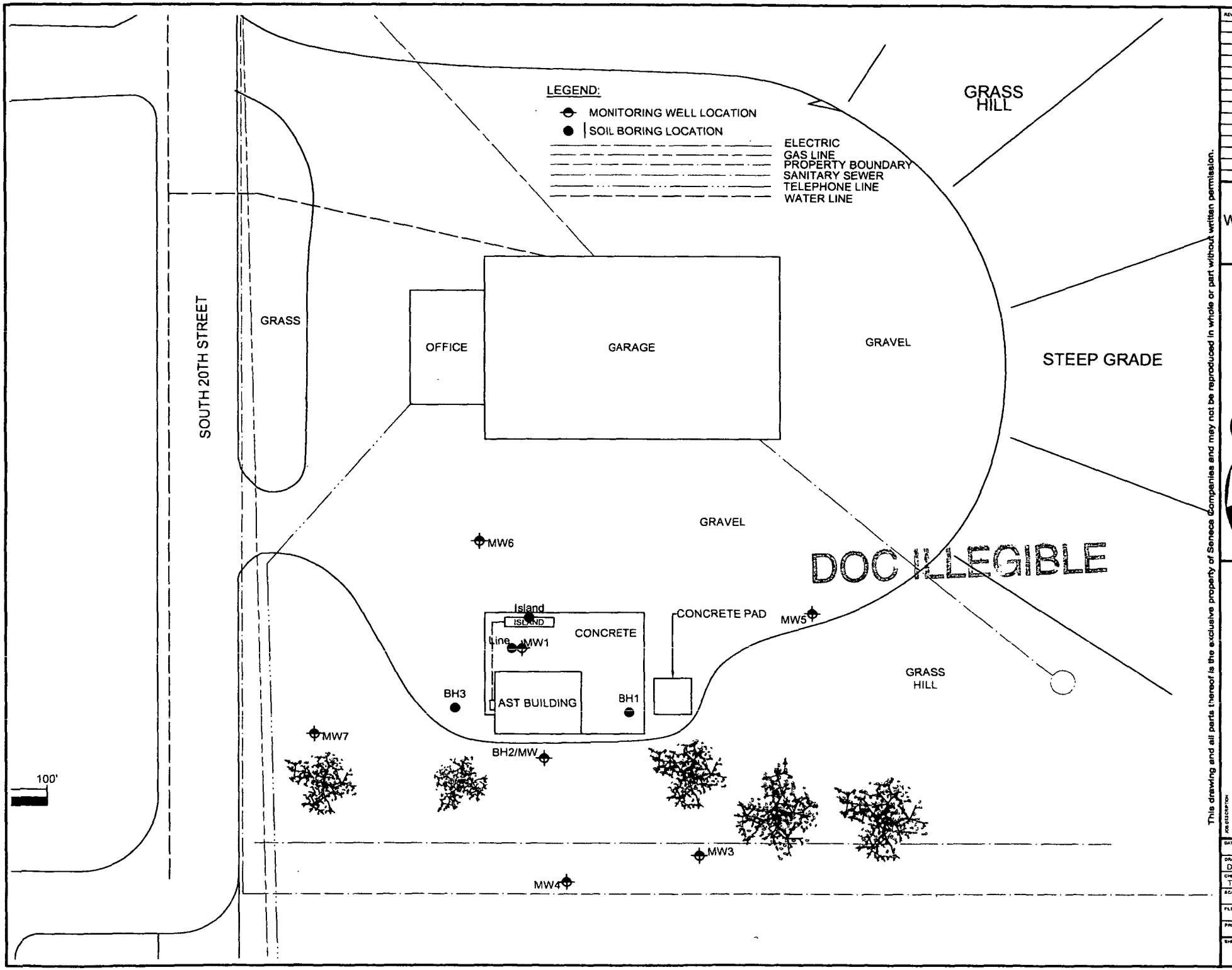
MW3: Results indicate a benzene concentration of <0.5 ppb. SSTLs and steady and declining criteria have been met for the benzene chemical. This is a T-ML well for benzene and will continue to be sampled annually.

MW4: Results indicate a benzene concentration of <0.5 ppb. SSTLs and steady and declining criteria have been met for the benzene chemical. This is a TG well for benzene and will continue to be monitored annually.

MW7: This well was last sampled in 2008 and benzene concentrations were less than laboratory detection limits. In 2013, MW7 was sampled to determine if the contaminant plume was migrating. MW7 BTEX results were less than target levels and laboratory detection limits. At this point it doesn't seem the plume is migrating.

Reclassification is not requested at this time. The PWL receptor is still classified as high risk for benzene. SSTLs have not been met for BH2/MW. Free product was not observed in BH2/MW during the 2013 monitoring event. Annual groundwater monitoring will continue until conditions have been met for a no further action risk rating.

Appendix 2
Site plan map



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REV NO	DATE

JOB DESCRIPTION: FAIRFIELD COMMUNITY SCHOOLS
405 SOUTH 20TH STREET
FAIRFIELD, IOWA

SHEET TITLE: SITE MAP

DATE	09/11/2008
DRAWN BY	DARRICK WORRALL
CHECKED BY	TODD FELDERMAN
SCALE	1"=50'
FILENAME	6341407DAV
PROJECT NO	6341407
SHEET NO	1 OF 1

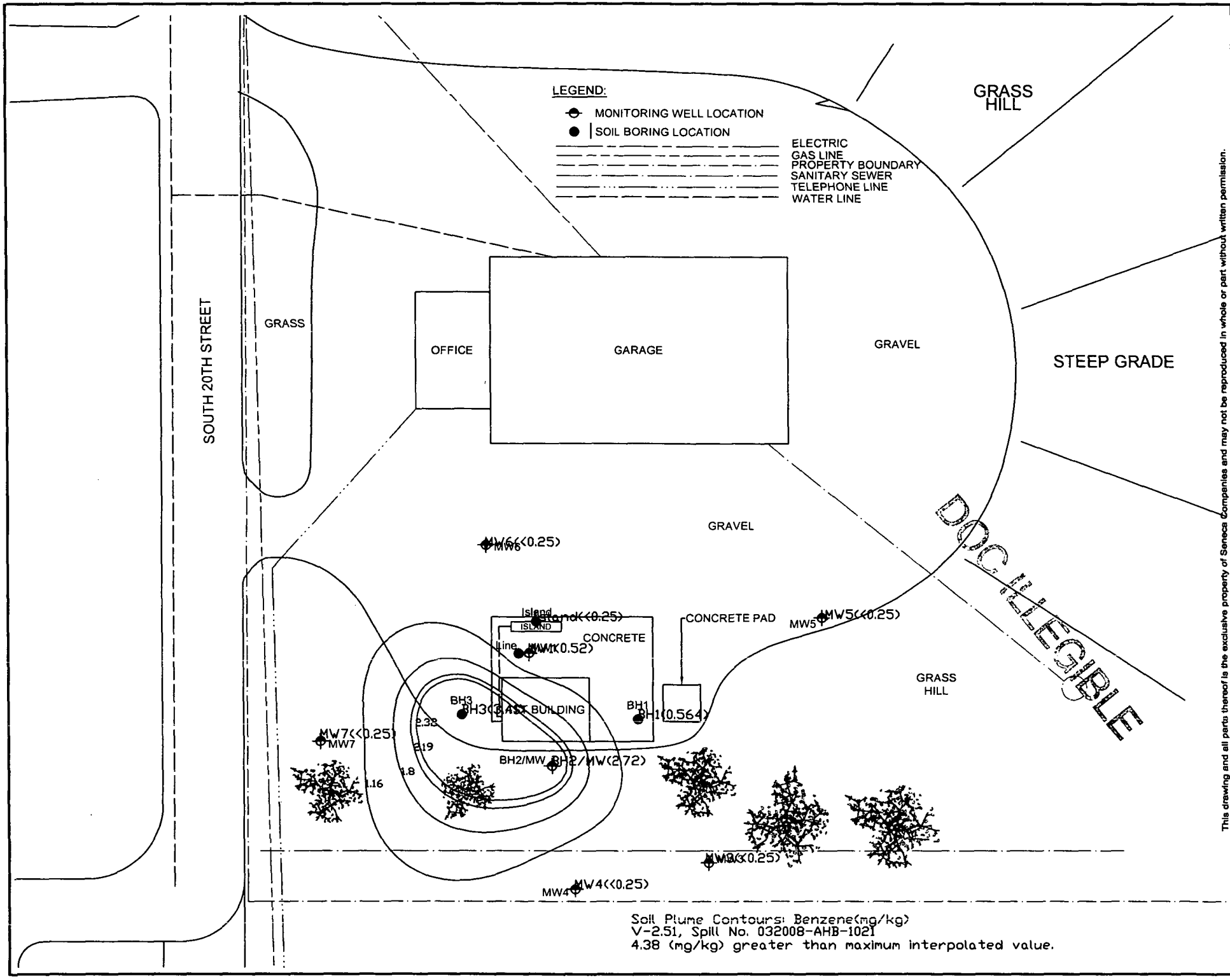
Appendix 3
Site vicinity map

DOC ILLEGIBLE

N

Seneca Environmental Services	Seneca Job# 6341403	Date: July 30, 2012
Fairfield Community Schools 405 South 20th Street Fairfield, Iowa	Approx. Scale: 1" =214'	Appendix 3 Site Vicinity Map

Appendix 5
Soil contamination / soil gas map(s)



Soil Plume Contours: Benzene(mg/kg)
V-2.51, Spill No. 032008-AHB-1021
4.38 (mg/kg) greater than maximum interpolated value.

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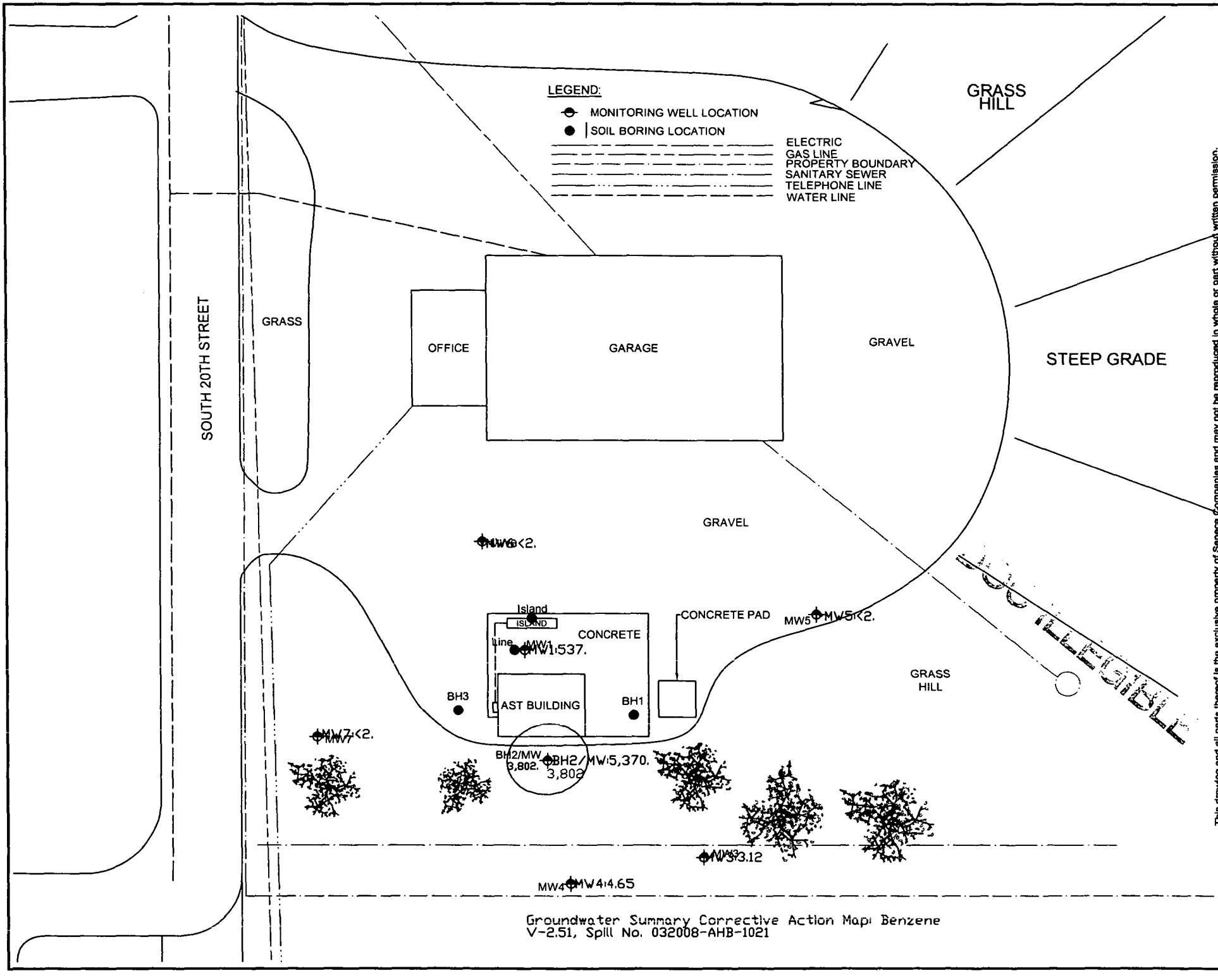
FAIRFIELD COMMUNITY SCHOOLS
405 SOUTH 20TH STREET
FAIRFIELD, IOWA

SOIL BENZENE OVERLAY MAP

DATE	09/11/2008
DRAWN BY	DARRICK WORRALL
CHECKED BY	TODD FELDERMAN
SCALE	1"=50'
FILENAME	6341407DAV
PROJECT NO	6341407
SHEET NO	1 OF 1

Appendix 6
Groundwater summary corrective action map



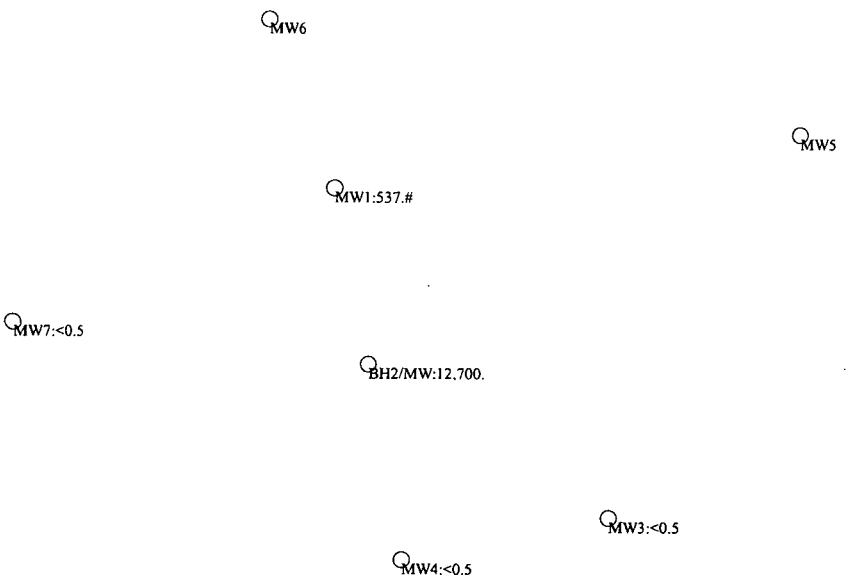
Seneca Companies

FAIRFIELD COMMUNITY SCHOOLS
405 SOUTH 20TH STREET
FAIRFIELD, IOWA

DATE 09/11/2008
DRAWN BY DARRICK WORRAL
CHECKED BY TODD FELDERMAN
SCALE 1"=50'
FILENAME 6341407DAV
PROJECT NO 6341407
SHEET NO 1 OF 1

Appendix 7
Groundwater monitoring results map

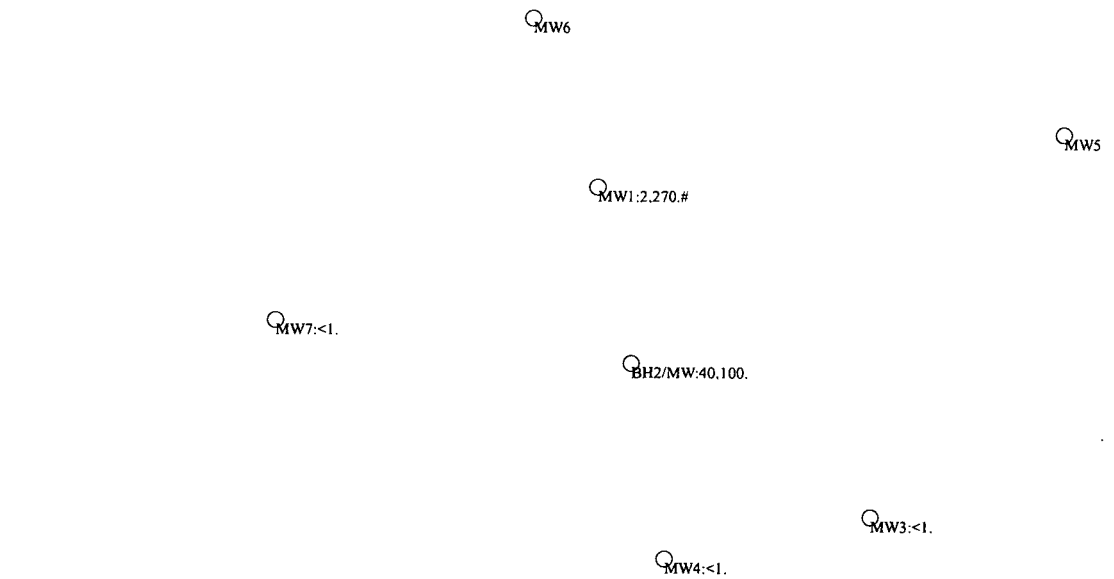
SMR, Groundwater Monitoring Results Map: 09/05/2013, Benzene(ug/L) 2.51, Spill No. 032008-AHB-1021
#: Most recent sample more than 6 months older than current risk date.



1 inch = 50 feet

SMR, Groundwater Monitoring Results Map: 09/05/2013, Toluene(ug/L) 2.51, Spill No. 032008-AHB-1021

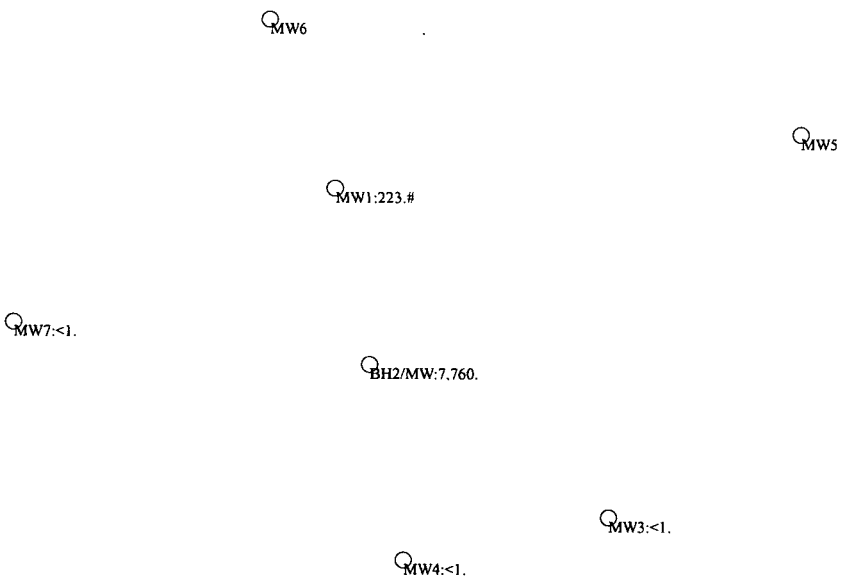
#: Most recent sample more than 6 months older than current risk date.



1 inch = 50 feet

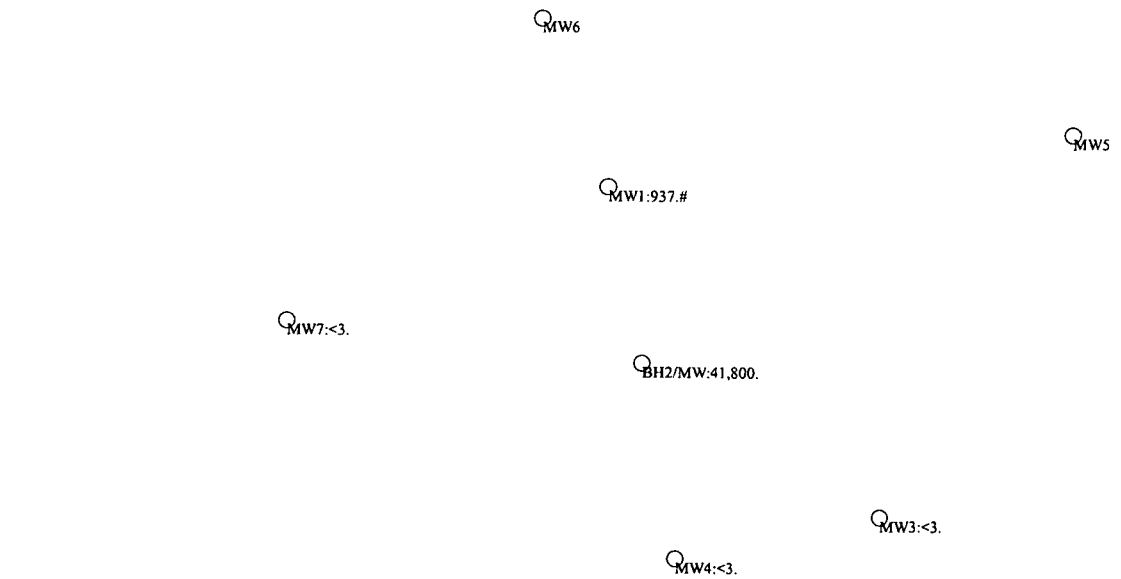
SMR, Groundwater Monitoring Results Map: 09/05/2013, Ethylbenzene (ug/L) Spill No. 032008-AHB-1021

#: Most recent sample more than 6 months older than current risk date.



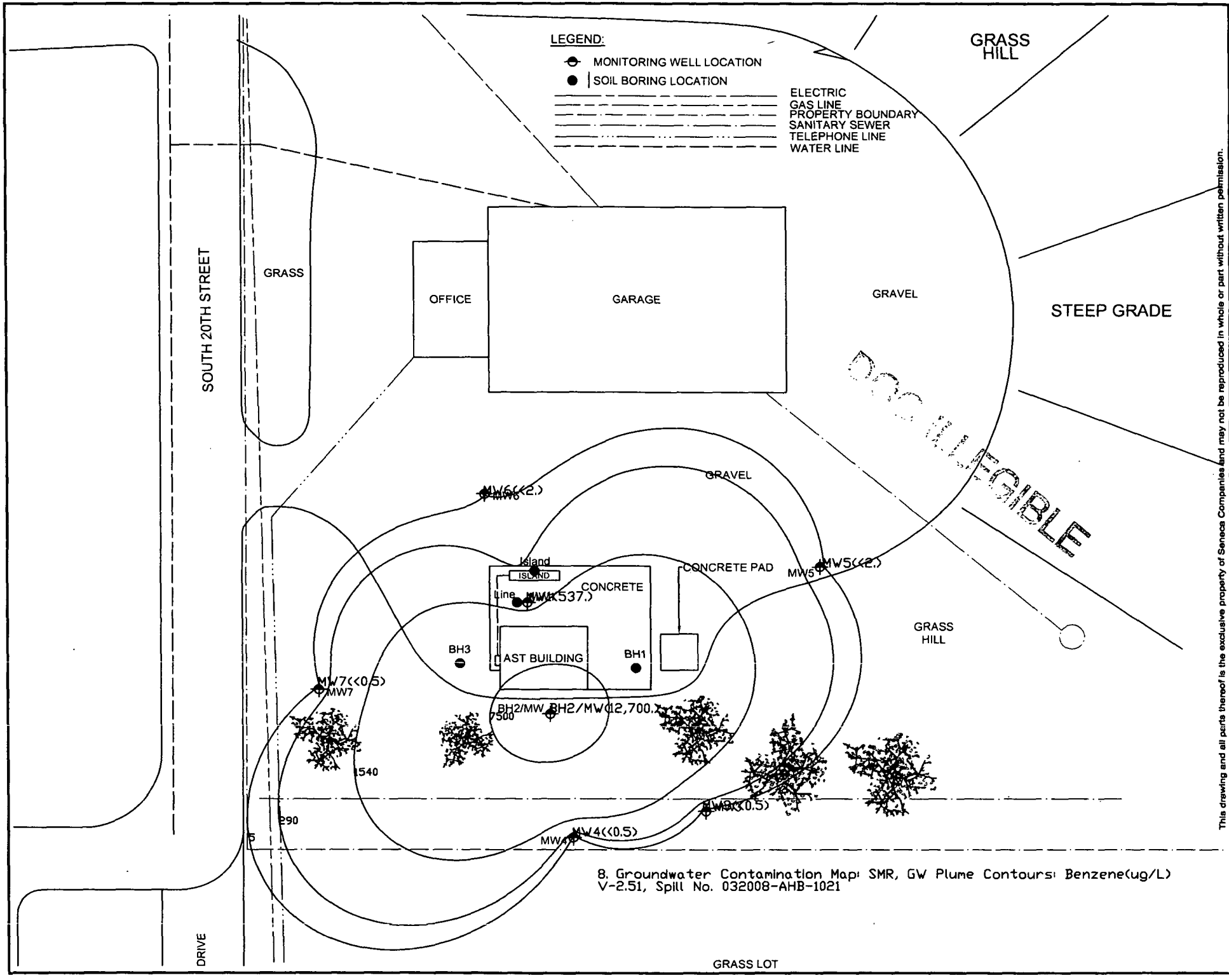
1 inch = 50 feet

SMR, Groundwater Monitoring Results Map: 09/05/2013, Xylenes(ug/L) 2.51, Spill No. 032008-AHB-1021
#: Most recent sample more than 6 months older than current risk date.



1 inch = 50 feet

Appendix 8
Groundwater contamination map



8. Groundwater Contamination Map: SMR, GW Plume Contours: Benzene(ug/L)
V-2.51, Spill No. 032008-AHB-1021

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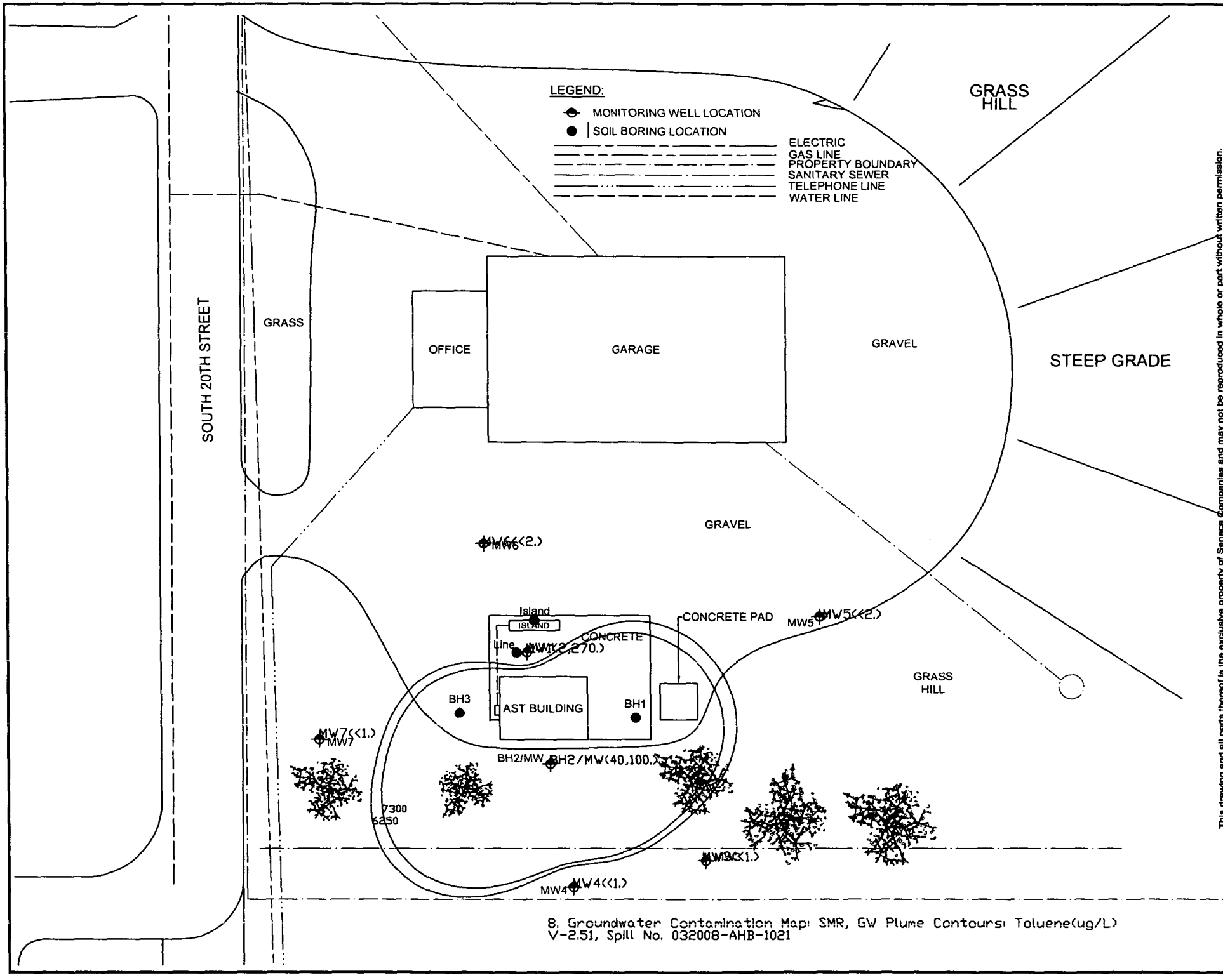
FAIRFIELD COMMUNITY SCHOOLS
405 SOUTH 20TH STREET
FAIRFIELD, IOWA

GROUNDWATER BENZENE OVERLAY MAP

DATE 08/11/2008
DRAWN BY DARRICK WORRALL
CHECKED BY TODD FELDERMAN
SCALE 1"=50'
FILENAME 8341407DAV
PROJECT NO 8341407
SHEET NO 1 OF 1



8. Groundwater Contamination Map: SMR, GW Plume Contours: Toluene(ug/L)
V-2.51, Spill No. 032008-AHB-1021

REV NO	DATE

N
W E
S

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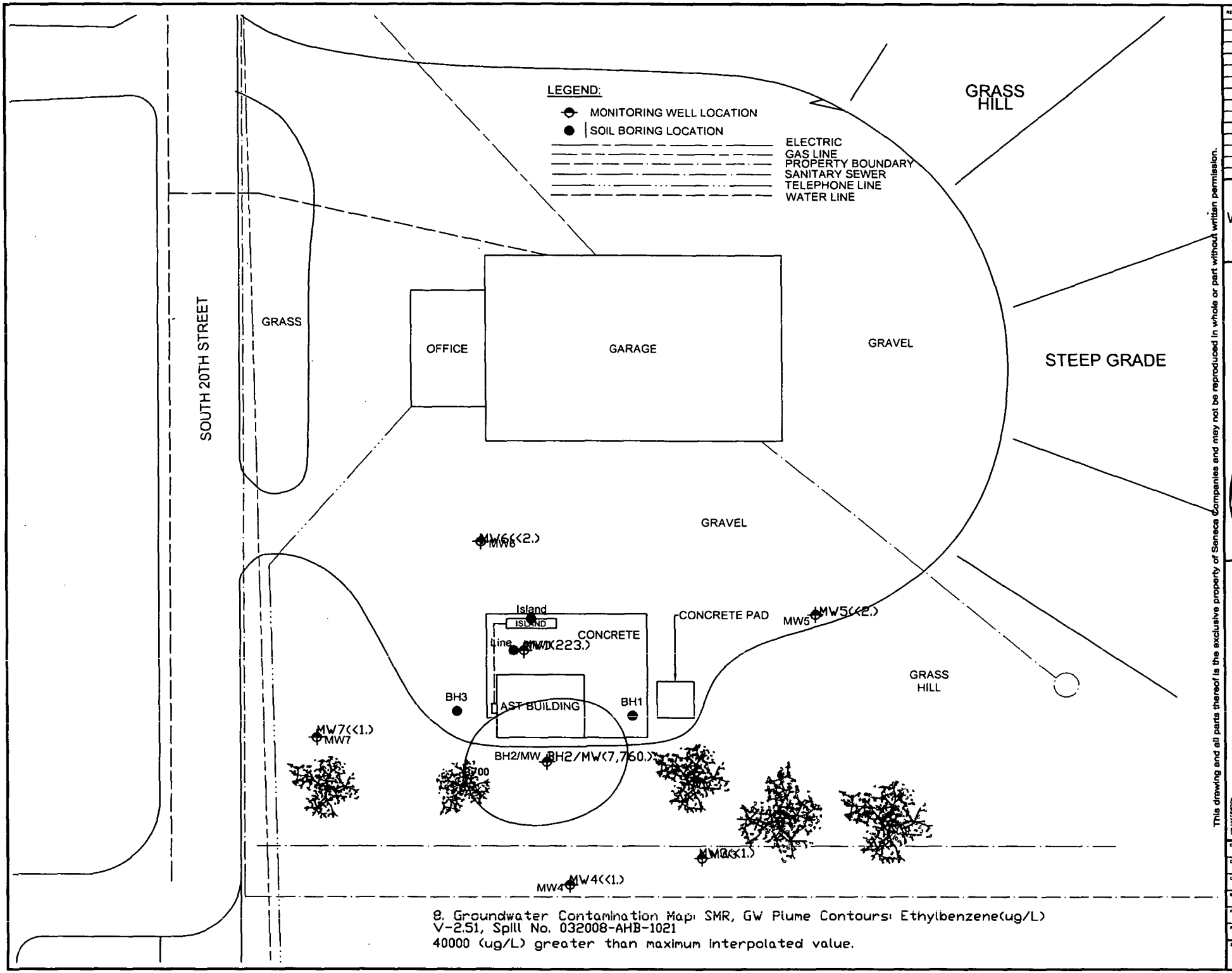
FAIRFIELD COMMUNITY SCHOOLS
405 SOUTH 20TH STREET
FAIRFIELD, IOWA

JOB DESCRIPTION

SHEET TITLE
GROUNDWATER TOLUENE OVERLAY MAP

DATE	09/11/2008
DRAWN BY	DARRICK WORRALL
CHECKED BY	TODD FELDERMAN
SCALE	1"=50'
FILENAME	6341407DAV
PROJECT NO	6341407
SHEET NO	1 OF 1



8. Groundwater Contamination Map: SMR, GW Plume Contours: Ethylbenzene(ug/L)
V-2.51, Spill No. 032008-AHB-1021
40000 (ug/L) greater than maximum interpolated value.

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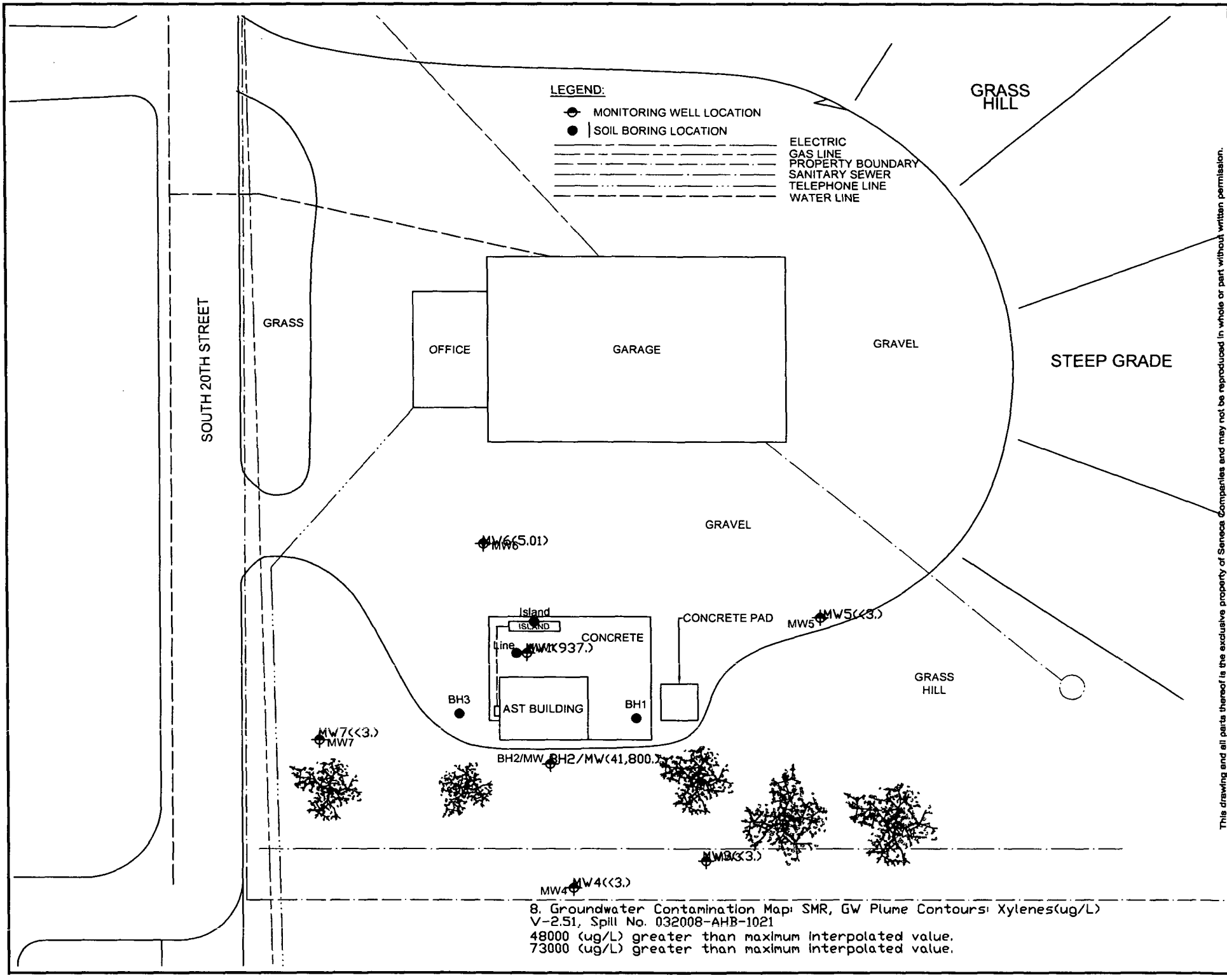
FAIRFIELD COMMUNITY SCHOOLS
405 SOUTH 20TH STREET
FAIRFIELD, IOWA

GROUNDWATER ETHYLBENZENE OVERLAY MAP

DATE	09/11/2008
DRAWN BY	DARRICK WORRALL
CHECKED BY	TODD FELDERMAN
SCALE	1"=50'
FILENAME	6341407DAV
PROJECT NO	6341407
SHEET NO	1 OF 1



8. Groundwater Contamination Map: SMR, GW Plume Contours: Xylenes(ug/L)
V-2.51, Spill No. 032008-AHB-1021
48000 (ug/L) greater than maximum interpolated value.
73000 (ug/L) greater than maximum interpolated value.

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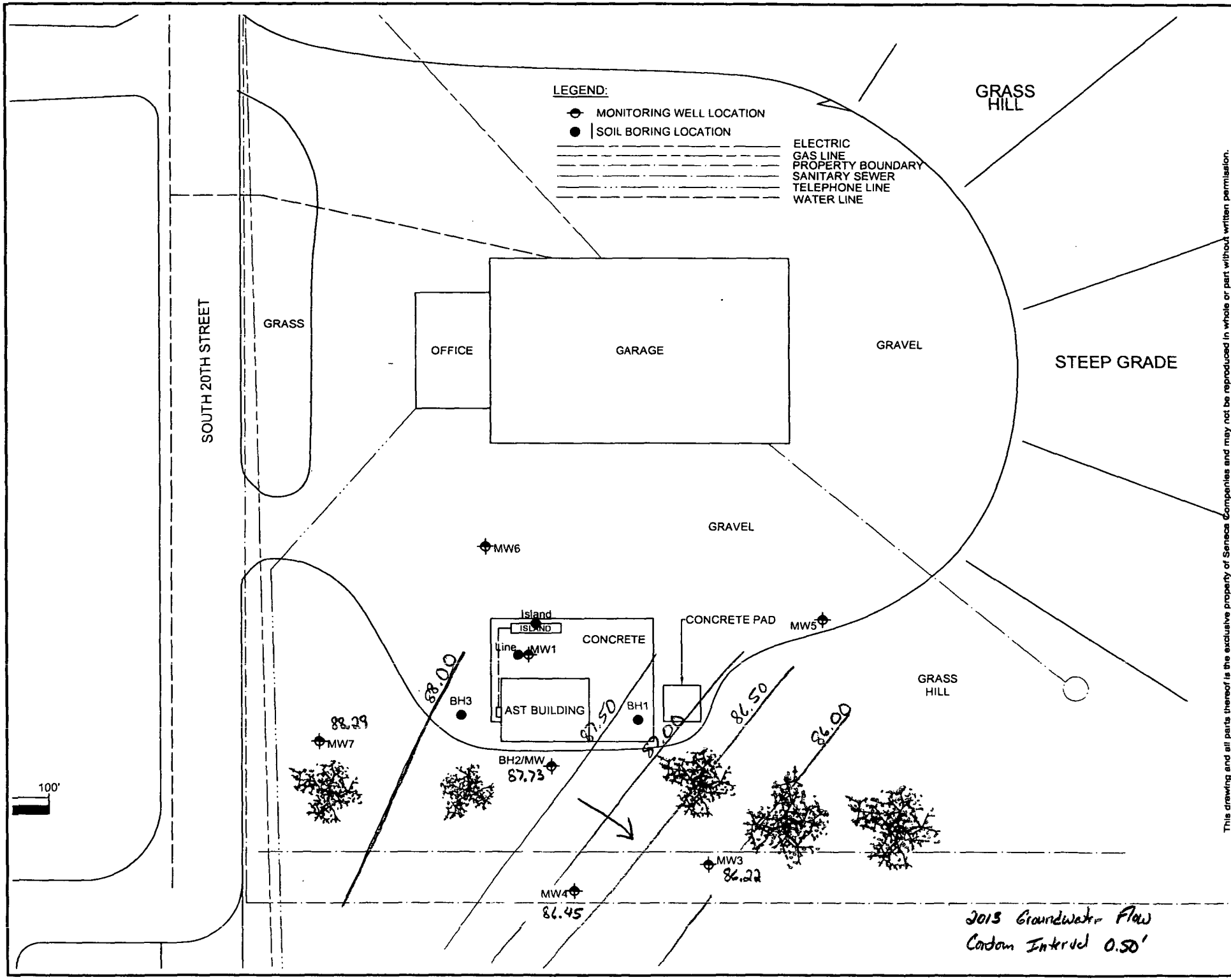
FAIRFIELD COMMUNITY SCHOOLS
405 SOUTH 20TH STREET
FAIRFIELD, IOWA

DATE: 09/11/2008
DRAWN BY: DARRICK WORRALL
CHECKED BY: TODD FELDERMAN
SCALE: 1"=50'
FILENAME: 6341407DAV
PROJECT NO: 6341407
SHEET NO: 1 OF 1

Appendix 9
Groundwater flow direction map



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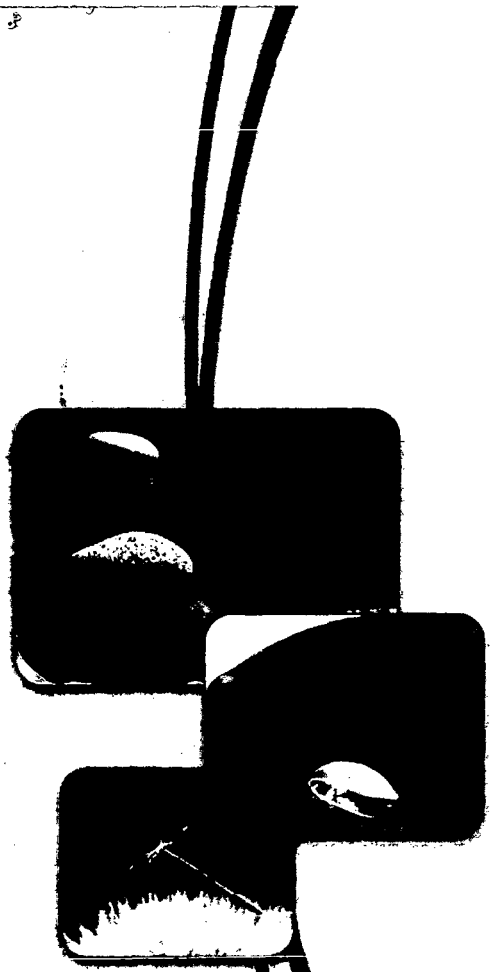
FAIRFIELD COMMUNITY SCHOOLS
405 SOUTH 20TH STREET
FAIRFIELD, IOWA

JOB DESCRIPTION

SHEET TITLE: SITE MAP

DATE	09/11/2008
DRAWN BY	DARRICK WORRALL
CHECKED BY	TODD FELDERMAN
SCALE	1"=50'
FILENAME	6341407DAV
PROJECT NO	6341407
SHEET NO	1 OF 1

Appendix 10
Analytical data sheets



TestAmerica

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ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Cedar Falls
704 Enterprise Drive
Cedar Falls, IA 50613
Tel: (319)277-2401

TestAmerica Job ID: 310-15178-1
TestAmerica Sample Delivery Group: 6341403
Client Project/Site: Fairfield Schools

For:
Seneca Companies
7241 Gaines Street Court
Davenport, Iowa 52806

Attn: Todd Felderman

Angela Muehling

Authorized for release by:
9/11/2013 1:50:57 PM

Angela Muehling, Project Manager I
angela.muehling@testamericainc.com

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Table of Contents

Case Narrative

Client: Seneca Companies
Project/Site: Fairfield Schools

TestAmerica Job ID: 310-15178-1
SDG: 6341403

Job ID: 310-15178-1

Laboratory: TestAmerica Cedar Falls

Narrative

Job Narrative
310-15178-1

Comments
No additional comments.

Receipt
The samples were received on 9/7/2013 9:15 AM; the samples arrived in good condition, properly preserved and, where required, on ice.
The temperature of the cooler at receipt was 2.2° C.

GC/MS VOA
No analytical or quality issues were noted.

VOA Prep
No analytical or quality issues were noted.

Sample Summary

Client: Seneca Companies
Project/Site: Fairfield Schools

TestAmerica Job ID: 310-15178-1
SDG: 6341403

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
310-15178-1	BH-2 MW	Ground Water	09/05/13 09:50	09/07/13 09:15
310-15178-2	MW-3	Ground Water	09/05/13 09:30	09/07/13 09:15
310-15178-3	MW-4	Ground Water	09/05/13 09:40	09/07/13 09:15
310-15178-4	MW-7	Ground Water	09/05/13 09:45	09/07/13 09:15

Client Sample Results

Client: Seneca Companies
Project/Site: Fairfield Schools

TestAmerica Job ID: 310-15178-1
SDG: 6341403

Client Sample ID: ~~BH-2 MW~~ MW4 9/12/13
Date Collected: 09/05/13 09:50
Date Received: 09/07/13 09:15
Sampler Name: Garrett Boelkes

Lab Sample ID: 310-15178-1
Matrix: Ground Water
Sampler Phone Number: 563-332-8000

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.500		0.500		ug/L			09/10/13 17:04	1
Ethylbenzene	<1.00		1.00		ug/L			09/10/13 17:04	1
Methyl tert-butyl ether	<1.00		1.00		ug/L			09/10/13 17:04	1
Toluene	<1.00		1.00		ug/L			09/10/13 17:04	1
Xylenes, Total	<3.00		3.00		ug/L			09/10/13 17:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*106*		*75 - 110*		*09/10/13 17:04*	*1*
Dibromofluoromethane (Surr)	*87*		*75 - 120*		*09/10/13 17:04*	*1*
Toluene-d8 (Surr)	*95*		*80 - 120*		*09/10/13 17:04*	*1*

Client Sample Results

Client: Seneca Companies
Project/Site: Fairfield Schools

TestAmerica Job ID: 310-15178-1
SDG: 6341403

Client Sample ID: MW-3
Date Collected: 09/05/13 09:30
Date Received: 09/07/13 09:15
Sampler Name: Garrett Boelkes

Lab Sample ID: 310-15178-2
Matrix: Ground Water
Sampler Phone Number: 563-332-8000

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.500		0.500		ug/L			09/10/13 14:34	1
Ethylbenzene	<1.00		1.00		ug/L			09/10/13 14:34	1
Methyl tert-butyl ether	<1.00		1.00		ug/L			09/10/13 14:34	1
Toluene	<1.00		1.00		ug/L			09/10/13 14:34	1
Xylenes, Total	<3.00		3.00		ug/L			09/10/13 14:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*103*		*75 - 110*		*09/10/13 14:34*	*1*
Dibromofluoromethane (Surr)	*90*		*75 - 120*		*09/10/13 14:34*	*1*
Toluene-d8 (Surr)	*96*		*80 - 120*		*09/10/13 14:34*	*1*

Client Sample Results

Client: Seneca Companies
Project/Site: Fairfield Schools

TestAmerica Job ID: 310-15178-1
SDG: 6341403

Client Sample ID: ~~MW-4~~ BHJ/MW 9/12/13
Date Collected: 09/05/13 09:40
Date Received: 09/07/13 09:15
Sampler Name: Garrett Boelkes

Lab Sample ID: 310-15178-3
Matrix: Ground Water
Sampler Phone Number: 563-332-8000

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**12700**		50.0		ug/L			09/10/13 18:29	100
Ethylbenzene	**7760**		100		ug/L			09/10/13 18:29	100
Methyl tert-butyl ether	<100		100		ug/L			09/10/13 18:29	100
Toluene	**40100**		100		ug/L			09/10/13 18:29	100
Xylenes, Total	**41800**		300		ug/L			09/10/13 18:29	100

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*105*		*75 - 110*		*09/10/13 18:29*	*100*
Dibromofluoromethane (Surr)	*87*		*75 - 120*		*09/10/13 18:29*	*100*
Toluene-d8 (Surr)	*95*		*80 - 120*		*09/10/13 18:29*	*100*

Client Sample Results

Client: Seneca Companies
Project/Site: Fairfield Schools

TestAmerica Job ID: 310-15178-1
SDG: 6341403

Client Sample ID: MW-7
Date Collected: 09/05/13 09:45
Date Received: 09/07/13 09:15
Sampler Name: Garrett Boelkes

Lab Sample ID: 310-15178-4
Matrix: Ground Water
Sampler Phone Number: 563-332-8000

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.500		0.500		ug/L			09/10/13 13:52	1
Ethylbenzene	<1.00		1.00		ug/L			09/10/13 13:52	1
Methyl tert-butyl ether	<1.00		1.00		ug/L			09/10/13 13:52	1
Toluene	<1.00		1.00		ug/L			09/10/13 13:52	1
Xylenes, Total	<3.00		3.00		ug/L			09/10/13 13:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*75 - 110*		*09/10/13 13:52*	*1*
Dibromofluoromethane (Surr)	*84*		*75 - 120*		*09/10/13 13:52*	*1*
Toluene-d8 (Surr)	*93*		*80 - 120*		*09/10/13 13:52*	*1*

Lab Chronicle

Client: Seneca Companies
Project/Site: Fairfield Schools

TestAmerica Job ID: 310-15178-1
SDG: 6341403

Client Sample ID: BH-2 MW

Lab Sample ID: 310-15178-1

Date Collected: 09/05/13 09:50
Matrix: Ground Water
Date Received: 09/07/13 09:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	24355	09/10/13 17:04	KNW	TAL CF

Client Sample ID: MW-3

Lab Sample ID: 310-15178-2

Date Collected: 09/05/13 09:30
Matrix: Ground Water
Date Received: 09/07/13 09:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	24355	09/10/13 14:34	KNW	TAL CF

Client Sample ID: MW-4

Lab Sample ID: 310-15178-3

Date Collected: 09/05/13 09:40
Matrix: Ground Water
Date Received: 09/07/13 09:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		100	24355	09/10/13 18:29	KNW	TAL CF

Client Sample ID: MW-7

Lab Sample ID: 310-15178-4

Date Collected: 09/05/13 09:45
Matrix: Ground Water
Date Received: 09/07/13 09:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	24355	09/10/13 13:52	KNW	TAL CF

Laboratory References:

TAL CF = TestAmerica Cedar Falls, 704 Enterprise Drive, Cedar Falls, IA 50613, TEL (319)277-2401

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Certification Summary

Client: Seneca Companies
Project/Site: Fairfield Schools

TestAmerica Job ID: 310-15178-1
SDG: 6341403

Laboratory: TestAmerica Cedar Falls

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
AIHA	IHLAP		101044	11-01-14
Illinois	NELAP	5	200024	11-29-13
Iowa	State Program	7	7	12-01-13
Kansas	NELAP	7	E-10341	01-31-14
Minnesota	NELAP	5	019-999-319	12-31-13
North Dakota	State Program	8	R-186	09-29-13 *
Oregon	NELAP	10	IA100001	09-29-13 *
Wisconsin	State Program	5	999917270	08-31-13 *

* Expired certification is currently pending renewal and is considered valid.

Method Summary

Client: Seneca Companies
Project/Site: Fairfield Schools

TestAmerica Job ID: 310-15178-1
SDG: 6341403

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	TAL CF

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL CF = TestAmerica Cedar Falls, 704 Enterprise Drive, Cedar Falls, IA 50613, TEL (319)277-2401

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
704 Enterprise Drive • Cedar Falls, IA 50613
Tel 319-277-2401 • Fax 319-277-2425

TestAmerica Sample Receipt and Cedar Falls Facility

310-15178 Chain of Custody

Client: Seneca Project: Fairfield Schools

City: _____ State: _____

Date: 9-7-13 Receiver's Initials: CH Time (Delivered): 9:15

Temperature Record:

Cooler ID# (If Applicable): QC

Uncorrected Temp: 2.2 °C

Corrected Temp: 2.2 °C

Thermometer:

- [X] IR "E" - 111531506
- [ ] IR "Front" - 61854108
- [ ] IR "G" - 130195822
- [ ] IR "H" - 130195853
- [ ] Other:

Courier:

- [ ] UPS
- [ ] TA Courier
- [X] FedEx
- [ ] TA Field Services
- [ ] FedEx Ground
- [ ] Client
- [ ] US Postal Service
- [ ] Other:
- [ ] Spee-Dee

- [X] Temperature blank
- [ ] Temperature out of compliance

Coolant Record:

- [X] Received on ice
  - [X] Wet ice
  - [ ] Blue ice
  - [ ] Dry ice
  - [ ] Other: _____
- [ ] NONE

Exceptions Noted:

- [ ] Sample(s) not received in cooler
- [ ] Sample(s) received same day of sampling
  - [ ] Evidence of chilling process
- [ ] Temp blank <0°C, samples NOT FROZEN
- [ ] Temp blank <0°C, samples FROZEN
- [ ] Temperature not taken: *(Indicate reason)*

_____

- [ ] Non-Conformance Report Started

Custody Seals:

Cooler Custody Seals Present? [X] Yes [ ] No

Cooler Custody Seals Intact? [X] Yes [ ] No [ ] N/A

Sample Custody Seals Present? [ ] Yes [X] No

Sample Custody Seals Intact? [ ] Yes [ ] No [X] N/A

Document No.: CF-LG-WI-002
Revision: 20
Date: 7/31/2013

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Cedar Falls Division
704 Enterprise Drive
Cedar Falls, IA 50613

Phone: 319 - 277 - 2401 or 1 - 800 - 750 - 2401
Fax: 319 - 277 - 2425

Company: **Seneca Environmental**
Send Report To: TODD FELDERMAN
Address: 7241 Gaines Street Court
City/State/Zip Code: Davenport, IA 52806
Telephone Number: 563-332-8000 Fax: 563-332-9465
Sampled by: (Print Name) GARRETT BOELKES
(Signature)

Your PO #: 288519
Invoice To: TODD
TA Quote #:
Project Name: FAIRFIELD SCHOOLS
Project Number: 6341403
Project Manager: T. F.
Proj. Man. Telephone:
Proj. Man. E-mail Address: @senecaco.com

Sample ID	Date Sampled	Time Sampled	# of containers shipped	Grab	Composite	Field Filtered	Preservative: Ice	HNO_3 (Red & White Label)	HCl (Blue & White Label)	NaOH (Orange & White Label)	H_2SO_4 Plastic (Yellow & White Label)	H_2SO_4 Glass(Yellow & White Label)	None (Black & White Label)	Other (Specify)	Matrix: Groundwater	Wastewater	Drinking Water	Sludge	Soil	Other Specify:	Analyze For: OA-1 w/MTBE (GCMS)	OA-1 (GC)	OA-2	Lead	PNAs	RUSH TAT (Must call ahead)	Standard TAT	Fax Results	E-mail Results	Send QC with report
BH2MW	9-5-13	9:50		X			X		X						X						X									
MW3	↓	9:30		↓			↓		↓						↓						↓									
MW4		9:40																												
MW7	↓	9:45		↓			↓		↓						↓						↓									

NOTE: All turn around times are calculated from the time of receipt at TestAmeric
NOTICE: **Pre-Arrangements must be made *AT LEAST 48 Hours in ADVANCE* to receive results with RUSH turn around time commitments; *additional charges* may be assessed.**
NOTE: There may be a charge assessed for TestAmerica disposing of sample remainder

NOTES:

Relinquished by	Date	Time	Received by	Date	Time	Relinquished by	Date	Time
	9-5-13	6:10p	Tony Fiedler	9/6	11:20	Tony Fiedler	9/6	1600
Shipped Via:			Comments:			Shipped Via:		
Received for TestAmerica by	Date	Time	Temperature Upon Receipt			Laboratory Comments		
	9/7/13	915						

Login Sample Receipt Checklist

Client: Seneca Companies

Job Number: 310-15178-1
SDG Number: 6341403

Login Number: 15178
List Number: 1
Creator: Facciani, Melene K.

List Source: TestAmerica Cedar Falls

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Appendix 12
Documentation

Well Search [redacted]

Well Search Report

Included in search	No. of wells	Database
X	0	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	0	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	2	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	0	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	0	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: 585446/4539621
Search Radius (ft): 1000

IGS Well Database

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								

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
No records found from this data source								

Private Well Tracking System

Map ID	Well No.	Location	Accuracy	Dist. From Point	Well Depth	Construction/ Permit Date	Owner/Permittees	Other Information
357912	2102020	T. 72 N., R. 10W., Sec. 26, SE, SW, SE, SW, SW	nom. +/- 25m.	301 (m)	21	01/01/1950	Troxel, Mike	Status: Plugged; Well use: Household
357770	2138302	T. 72 N., R. 10W., Sec. 26, SE, NE, SE, SW, NE	nom. +/- 25m.	(m)	32	01/01/1950	Vogt, Laura	Status: Inactive; 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
No records found from this data source								

Permitted Private 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								

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

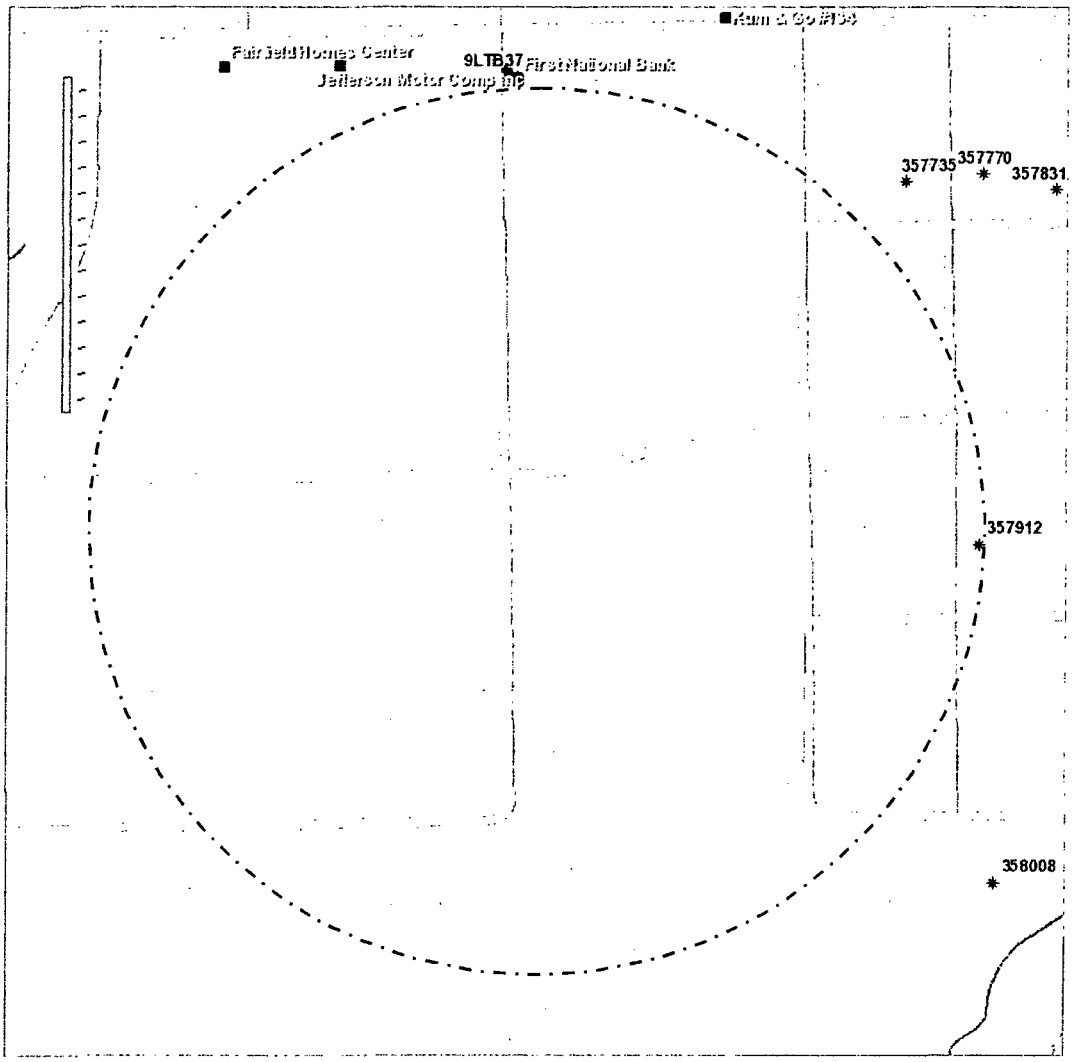
Map ID	Well No.	Location	Accuracy	Dist. From Point	Well Depth	Construction/ Permit Date	Owner/Permittees	Other Information
No records found from this data source								

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: 585446/4539621
Search Radius (ft): 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.