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Des Moines, IA 50313-3804
Toll-Free: 800-369-5500

CON 12-15
Doc #32325

The Complete Solution

December 22, 2015

Mr. Thomas Kelly
Kelly Oil Bulk Plant
130 2nd Avenue South
Clinton, Iowa 52732

**SUBJECT: SEMI-ANNUAL FREE PRODUCT RECOVERY REPORT
KELLY BULK OIL PLANT
130 2nd AVENUE SOUTH, CLINTON, IOWA
REGISTRATION NO. 8603141**

Dear Mr. Kelly:

Please find enclosed two copies of the completed Free Product Recovery Report for the above referenced facility. Please sign one copy and forward to the IDNR at:

Greg Fuhrmann
Contaminated Sites Section
Iowa Department of Natural Resources
502 East 9th Street
Des Moines, Iowa 50319

Retain the other copy for your records.

If you have any questions regarding your project, please contact me at (800) 728-6900.

Sincerely,
Seneca Environmental Services

A handwritten signature in black ink, appearing to read "Todd Felderman".

Todd Felderman
Project Manager

Enclosures

Branch Locations

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**Free Product Recovery Report
Leaking Underground Storage Tank Site Assessment
for the Iowa Department of Natural Resources**

SITE IDENTIFICATION

LUST No. UST Registration No.

Site Name: Kelly Oil Bulk Plant
Site Address: 130 2nd Avenue South
City: Clinton

RESPONSIBLE PARTY IDENTIFICATION

Name: Kelly Oil Bulk Plant
Street: 130 2nd Avenue South
City: Clinton State: Iowa Zip Code: 52732

Submittal Date:

STATEMENT OF CERTIFICATION

I, Mark Diehl, Groundwater Professional Certification No. 1630, am familiar 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' Free Product Recovery Report guidance. Based on my knowledge of those documents and information I have prepared and reviewed regarding this site, UST Registration No. 8603141, LUST No. _____, 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 Free Product Recovery Report.

Print: Name/Address of Certified Groundwater Professional

Mark Diehl Signature:
Seneca Companies
7241 Gaines Street Court Phone: (563) 332-8000
Davenport, Iowa 52806 Date: 12/22/15

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

Kelly Oil Bulk Plant Signature:
Print Name of Responsible Party Signature- Responsible Party

Official IDNR Use Only

Date Received: Comment Letter Date:
Reviewer: Approved:

Free Product Recovery - Site Totals

Tabulate the total groundwater volume and total free product volume removed from all the recovery wells at the site. Volume of free product and groundwater recovered must be reported to the nearest 0.1 gallon. List the site totals starting with the first month the recovery was initiated. The results for all events must be provided.

Volume of Water Recovered

Month / Year - Gallons	Month / Year - Gallons	Month / Year - Gallons
01/13-0.00	03/14-0.00	05/15-0.00
02/13-0.00	04/14-0.00	06/15-0.00
03/13-0.00	05/14-0.00	07/15-0.00
04/13-0.00	06/14-0.00	08/15-0.00
05/13-0.00	07/14-0.00	09/15-0.00
06/13-0.00	08/14-0.00	10/15-0.00
07/13-0.00	09/14-0.00	11/15-0.00
08/13-0.00	10/14-0.00	
09/13-0.00	11/14-0.00	
10/13-0.00	12/14-0.00	
11/13-0.00	01/15-0.00	
12/13-0.00	02/15-0.00	
01/14-0.00	03/15-0.00	
02/14-0.00	04/15-0.00	

Volume of Free Product Recovered

Month / Year - Gallons	Month / Year - Gallons	Month / Year - Gallons
01/13-0.21	03/14-0.13	05/15-<0.01
02/13-0.13	04/14-0.08	06/05-0.00
03/13-0.05	05/14-0.03	07/15-0.03
04/13-<0.01	06/14-0.00	08/15-<0.01
05/13-0.00	07/14-0.00	09/15-0.02
06/13-0.00	08/14-0.03	10/15-<0.01
07/13-0.00	09/14-0.03	11/15-0.04
08/13-0.00	10/14-0.00	
09/13-0.02	11/14-0.00	
10/13-0.00	12/14-0.00	
11/13-0.00	01/15-0.00	
12/13-0.02	02/15-0.05	
01/14-0.03	03/15-0.04	
02/14-0.48	04/15-0.00	

Appendix 1

Evaluation of Analytical Data

Evaluation of Analytical Data

Six monitoring wells were sampled for the 2015 SMR. MW3, MW4, MW10, MW15, MW16 and MW17 were sampled on 10/22/2015 for total extractable hydrocarbons as diesel and waste oil contaminants.

The analytical results for:

MW3 indicated Diesel levels decreased and Waste Oil levels remained below laboratory detection limits since the last sampling event. Diesel levels are above IDNR action levels. Steady and declining criteria have not been met. Four events below target levels have not been met.

MW4 indicated Diesel levels increased and Waste Oil levels remained below laboratory detection limits since the last sampling event. Diesel and Waste Oil levels are below IDNR action levels. Steady and declining criteria have not been met. Four events below target levels have been met.

MW10 indicated Diesel levels decreased and are below IDNR action levels. Waste Oil concentrations remained below laboratory detection limits since the last sampling event. Steady and declining criteria have not been met. Four events below target levels have not been met.

MW15 indicated Diesel and Waste Oil levels have remained below laboratory detection limits since the last sampling event. Diesel and Waste Oil levels are below IDNR action levels. Steady and declining criteria have been met. Four events below target levels have been met.

MW16 indicated Diesel and Waste Oil levels have remained below laboratory detection limits and IDNR action levels. Steady and declining criteria have been met. Four events below target levels have been met.

MW17 indicated Diesel levels increased and Waste Oil concentrations have remained below laboratory detection limits since the last sampling event. Diesel and Waste Oil levels are below IDNR action levels. Steady and declining criteria have not been met. Four events below target levels have not been met.

TEH concentrations decreased at the source well, MW3, and also decreased or remained steady throughout the site in the transition/guard wells during the 2015 sampling event. The THE plume does not appear to be migrating.

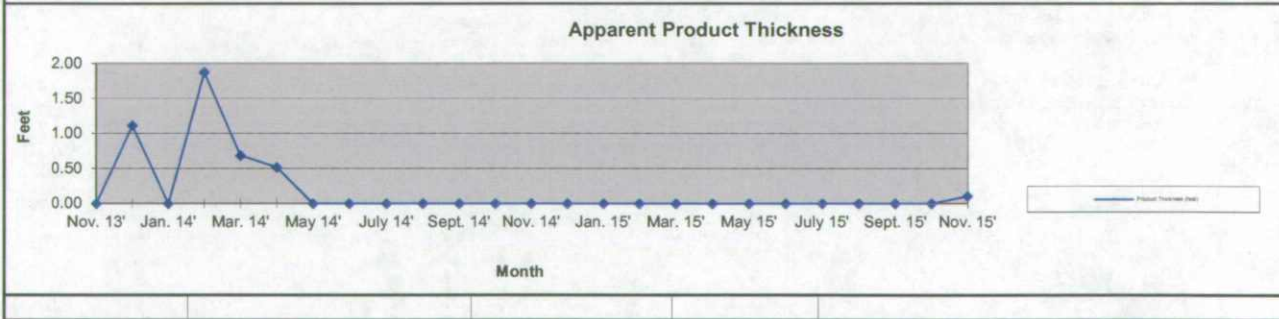
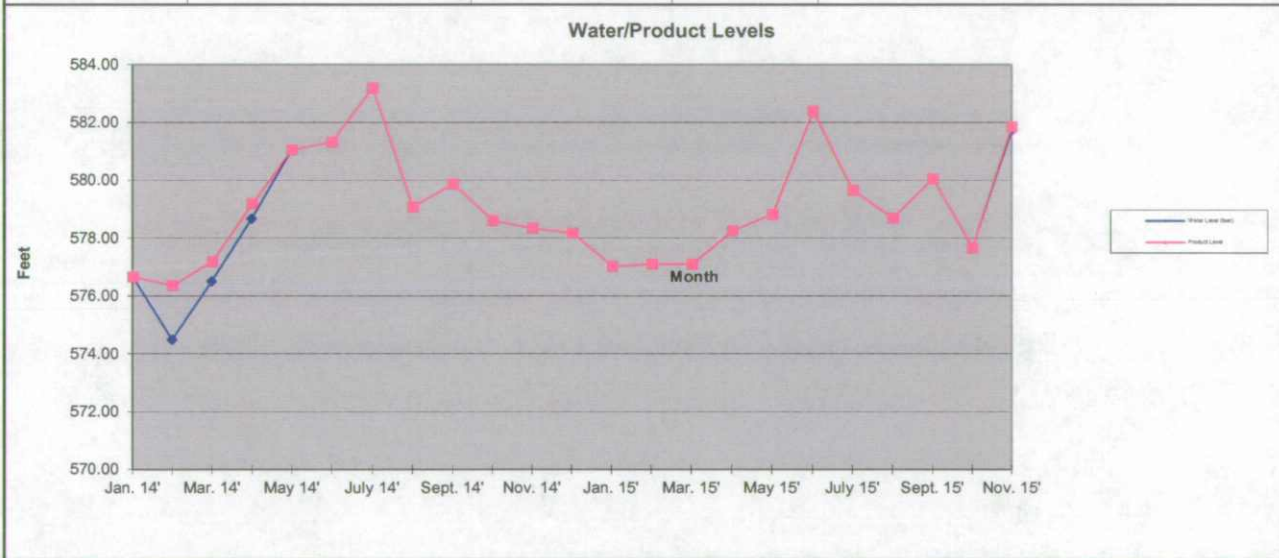
Soil and Soil Gas Monitoring

Soil and soil gas sampling was not conducted for the SMR.

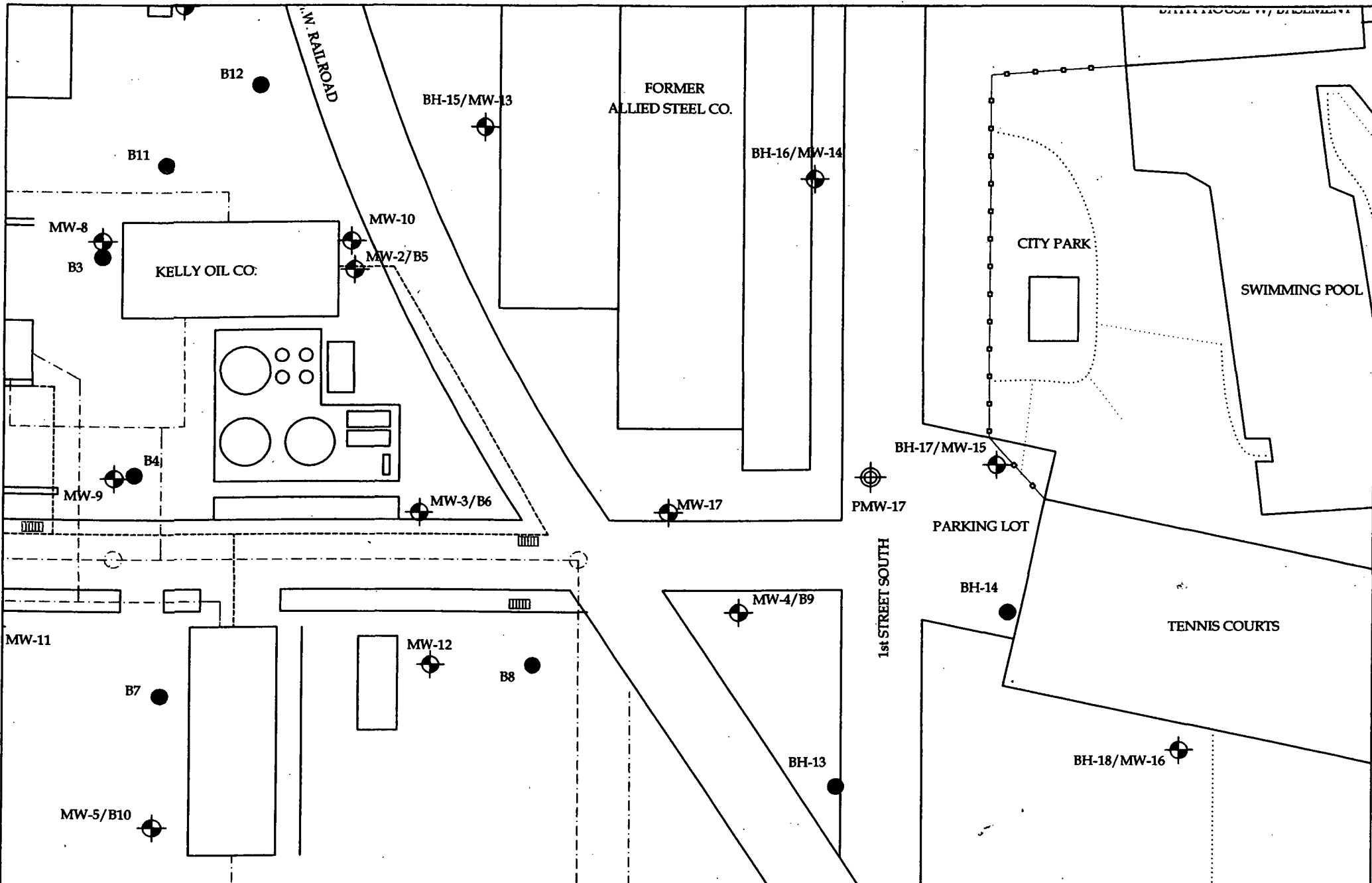
Free Product

This appendix contains a free product graph in correlation to groundwater levels from November 2013 to November 2015. During the period of November 2013 thru April 2014 an increase in free product thickness continued to be observed in correlation to a lower water table. Since the April 2014 recovery event, free product was not observed until the most recent recovery event in November 2015. Seneca recommends continued free phase product recovering by monthly passive bailing and using product absorbent socks.





2013-2015 Product Thickness and Water Level					
Kelly's Bulk Plant MW-3					
Month	Water Level (feet)	Product Level	Month	Product Thickness (feet)	
Nov. 13'	577.37	577.37	Nov. 13'	0.00	
Dec. 13'	577.04	578.16	Dec. 13'	1.12	
Jan. 14'	576.67	576.67	Jan. 14'	0.00	
Feb. 14'	574.50	576.38	Feb. 14'	1.88	
Mar. 14'	576.52	577.21	Mar. 14'	0.69	
April 14'	578.69	579.21	April 14'	0.52	
May 14'	581.07	581.07	May 14'	0.00	
June 14'	581.34	581.34	June 14'	0.00	
July 14'	583.21	583.21	July 14'	0.00	
Aug 14'	579.10	579.10	Aug 14'	0.00	
Sept. 14'	579.89	579.89	Sept. 14'	0.00	
Oct. 14'	578.63	578.63	Oct. 14'	0.00	
Nov. 14'	578.36	578.36	Nov. 14'	0.00	
Dec. 14'	578.19	578.19	Dec. 14'	0.00	
Jan. 15'	577.04	577.04	Jan. 15'	0.00	
Feb. 15'	577.12	577.12	Feb. 15'	0.00	
Mar. 15'	577.12	577.12	Mar. 15'	0.00	
April 15'	578.27	578.27	April 15'	0.00	
May 15'	578.84	578.84	May 15'	0.00	
June 15'	582.40	582.40	June 15'	0.00	
July 15'	579.65	579.65	July 15'	0.00	
Aug 15'	578.70	578.70	Aug 15'	0.00	
Sept. 15'	580.07	580.07	Sept. 15'	0.00	
Oct. 15'	577.68	577.68	Oct. 15'	0.00	
Nov. 15'	581.75	581.86	Nov. 15'	0.11	

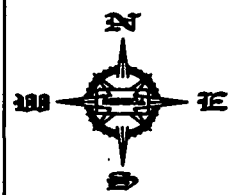


Appendix 2
Site Plan Map



TELEPHONE -----
 GAS -----
 SEWER -----
 STORM SEWER -----
 ELECTRIC -----
 WATER -----
 PVC WATER LINES -----
 PRODUCT LINES -----

-  PROPOSED MONITORING WELL
-  SOIL BORING
-  SOIL BORING WITH PERMANENT MONITORING WELL
-  PIEZOMETER



FILE NAME:
KLLYBULK
 PROJECT NO:
6031503
 SITE: **KELLY OIL COMPANY**
130 2nd AVENUE SOUTH
CLINTON, IOWA
SITE PLAN MAP

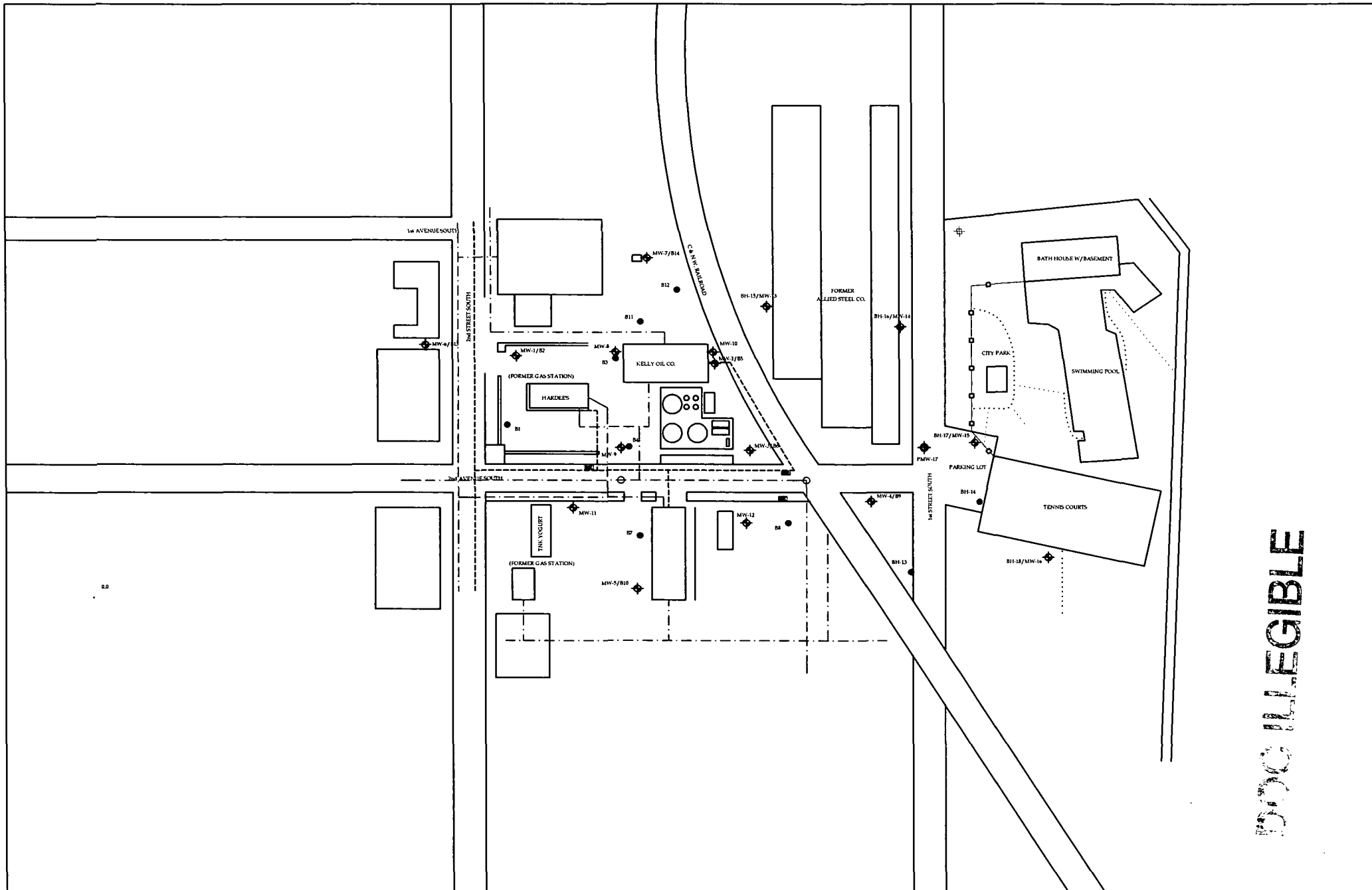


REVISED:
03/12/14
 DATE:
12-31-97
 REVIEWED BY:
TF
 DRAWN BY:
GB





REG NUMBER:
8603141
 SCALE:
1" = 80'

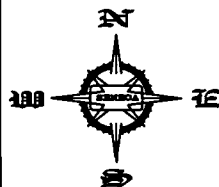
Appendix 3

Site Vicinity Map



- TELEPHONE -----
- GAS -----
- SEWER -----
- STORM SEWER -----
- ELECTRIC -----
- WATER -----
- PVC WATER LINES -----
- PRODUCT LINES -----

-  PROPOSED MONITORING WELL
-  SOIL BORING
-  SOIL BORING WITH PERMANENT MONITORING WELL
-  PIEZOMETER



FILE NAME:
KLLYBULK

PROJECT NO:
6031503

SITE: KELLY OIL COMPANY
130 2nd AVENUE SOUTH
CLINTON, IOWA
SITE VICINITY MAP



REG NUMBER:
8603141

SCALE:
1" = 200'

REVISED:
3-23-99

DATE:
12-31-97

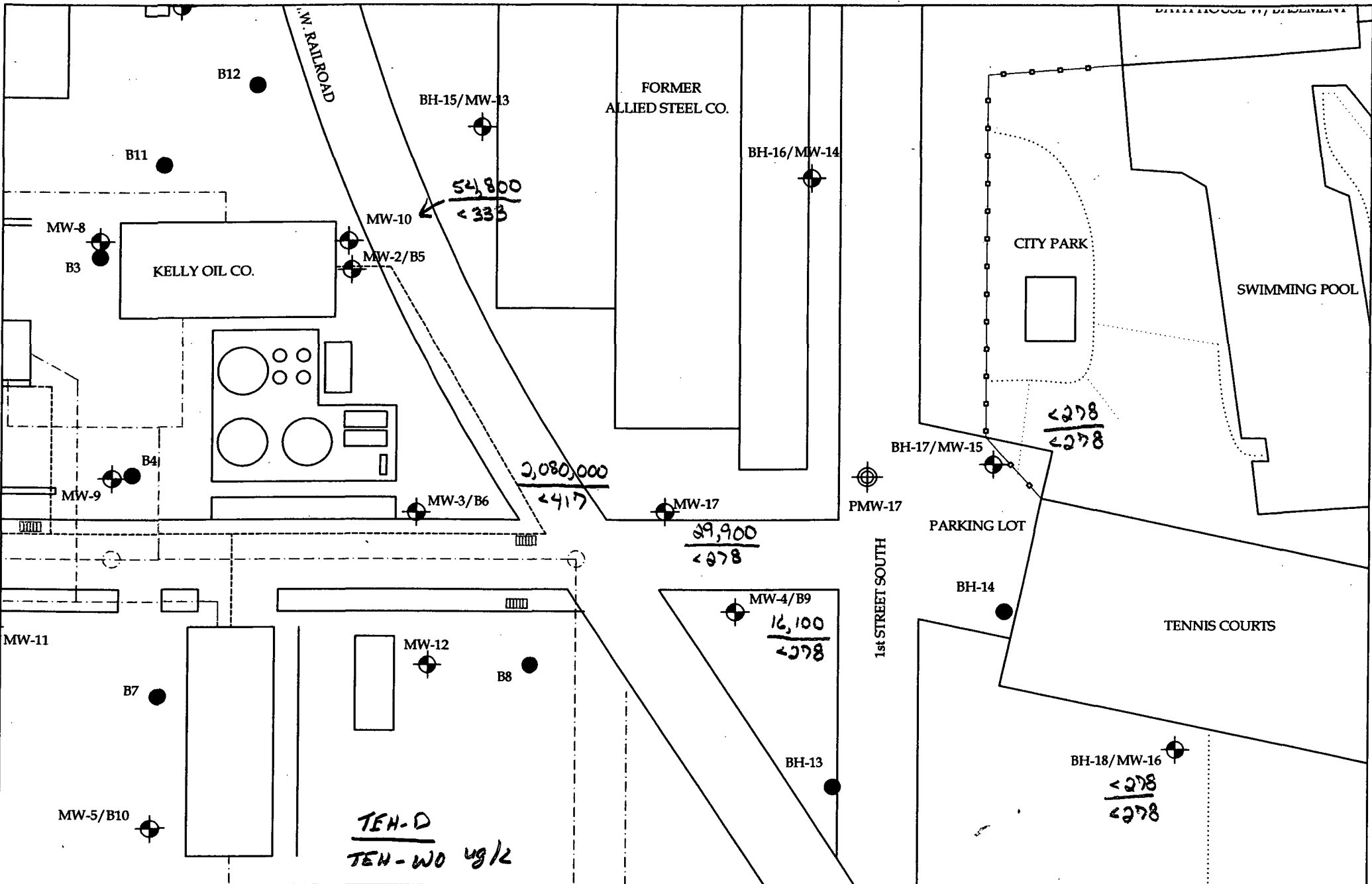
REVIEWED BY:
MD

DRAWN BY:
SMH

UNREPRODUCIBLE

Appendix 6

Groundwater Summary Corrective Action Map



TELEPHONE	---
GAS	---
SEWER	---
STORM SEWER	---
ELECTRIC	---
WATER	---
PVC WATER LINES	---
PRODUCT LINES	---

	PROPOSED MONITORING WELL
	SOIL BORING
	SOIL BORING WITH PERMANENT MONITORING WELL
	PIEZOMETER



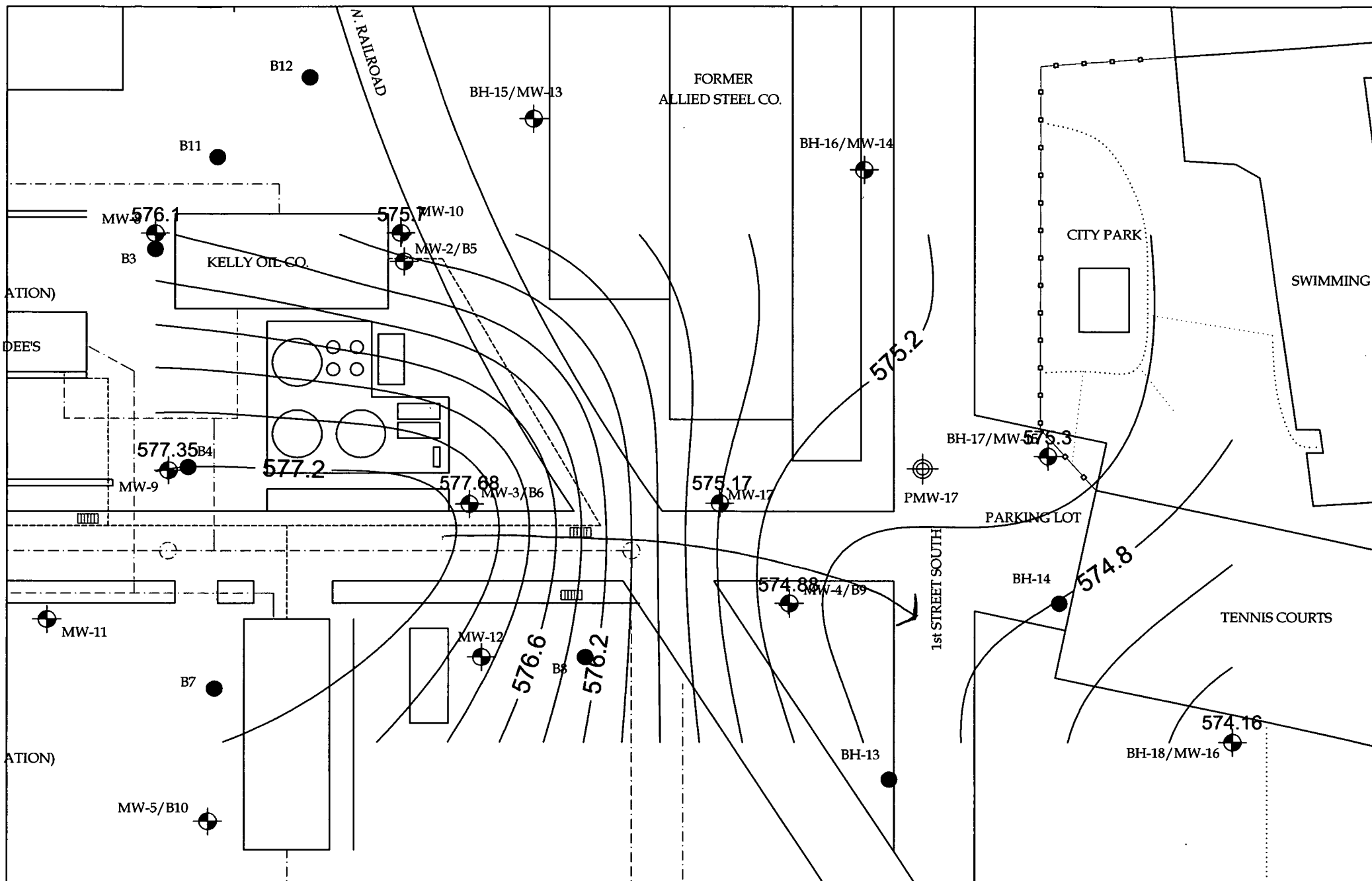
FILE NAME: KLLYBULK
PROJECT NO: 6031503
SITE: KELLY OIL COMPANY 130 2nd AVENUE SOUTH CLINTON, IOWA SITE PLAN MAP

Seneca
Environmental Services

REVISED: 03/12/14	REVIEWED BY: TF
DATE: 12-31-97	DRAWN BY: GB
REG NUMBER: 8603141	
SCALE: 1" = 80'	

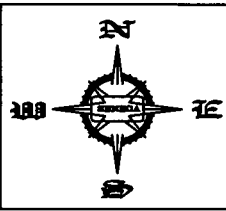
Appendix 9

Groundwater Flow Direction Map



TELEPHONE	---
GAS	----
SEWER	-----
STORM SEWER	-----
ELECTRIC	-----
WATER	-----
PVC WATER LINES	-----
PRODUCT LINES	-----

	PROPOSED MONITORING WELL
	SOIL BORING
	SOIL BORING WITH PERMANENT MONITORING WELL
	PIEZOMETER



FILE NAME:
KLLYBULK

PROJECT NO:
6031503

SITE: KELLY OIL COMPANY
130 2nd AVENUE SOUTH
CLINTON, IOWA
GWFLOW 10/22/2015 (CI=0.2)

Seneca
Environmental Services

REVISED: 09/18/14	REVIEWED BY: TF
DATE: 12-31-97	DRAWN BY: GB
REG NUMBER: 8603141	
SCALE: 1" = 80'	

Appendix 10

Analytical Data Sheets

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

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

TestAmerica Job ID: 310-67406-1
TestAmerica Sample Delivery Group: 6031503
Client Project/Site: Kelly Bulk

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

Attn: Todd Felderman

Angela Muehling

Authorized for release by:
11/3/2015 2:34:13 PM

Angela Muehling, Project Manager I
(319)277-2401
angela.muehling@testamericainc.com

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Expert**

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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.

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Chain of Custody	16
Receipt Checklists	19

Case Narrative

Client: Seneca Companies
Project/Site: Kelly Bulk

TestAmerica Job ID: 310-67406-1
SDG: 6031503

Job ID: 310-67406-1

3

Laboratory: TestAmerica Cedar Falls

Narrative

**Job Narrative
310-67406-1**

Comments

No additional comments.

Receipt

The samples were received on 10/23/2015 4:25 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 2.5° C.

Receipt Exceptions

The Chain-of-Custody (COC) was improperly completed. The client marked OA1 on COC, however, the laboratory received 250 mL amber containers. The client confirmed OA2 analysis was needed for all samples.

GC Semi VOA

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Organic Prep

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Sample Summary

Client: Seneca Companies
Project/Site: Kelly Bulk

TestAmerica Job ID: 310-67406-1
SDG: 6031503

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
310-67406-1	MW-3	Ground Water	10/22/15 16:00	10/23/15 16:25
310-67406-2	MW-4	Ground Water	10/22/15 16:10	10/23/15 16:25
310-67406-3	MW-10	Ground Water	10/22/15 16:20	10/23/15 16:25
310-67406-4	MW-15	Ground Water	10/22/15 16:30	10/23/15 16:25
310-67406-5	MW-16	Ground Water	10/22/15 16:40	10/23/15 16:25
310-67406-6	MW-17	Ground Water	10/22/15 16:50	10/23/15 16:25

4

Client Sample Results

Client: Seneca Companies
Project/Site: Kelly Bulk

TestAmerica Job ID: 310-67406-1
SDG: 6031503

Client Sample ID: MW-3

Lab Sample ID: 310-67406-1

Date Collected: 10/22/15 16:00

Matrix: Ground Water

Date Received: 10/23/15 16:25

Sampler Name: Todd Felderman

Sampler Phone Number: 563-332-8000

Method: OA-2 - Iowa - Extractable Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	<417		417		ug/L		10/26/15 10:20	10/31/15 03:56	1
Diesel	2080000		41700		ug/L		10/26/15 10:20	11/02/15 19:51	100
Waste Oil	<417		417		ug/L		10/26/15 10:20	10/31/15 03:56	1
Total Extractable Hydrocarbons	<694		694		ug/L		10/26/15 10:20	10/31/15 03:56	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
n-Octacosane	77		45 - 140	10/26/15 10:20	10/31/15 03:56	1

5

Client Sample Results

Client: Seneca Companies
Project/Site: Kelly Bulk

TestAmerica Job ID: 310-67406-1
SDG: 6031503

Client Sample ID: MW-4

Lab Sample ID: 310-67406-2

Date Collected: 10/22/15 16:10

Matrix: Ground Water

Date Received: 10/23/15 16:25

Sampler Name: Todd Felderman

Sampler Phone Number: 563-332-8000

Method: OA-2 - Iowa - Extractable Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	<278		278		ug/L		10/26/15 10:20	10/30/15 16:37	1
Diesel	16100		278		ug/L		10/26/15 10:20	10/30/15 16:37	1
Waste Oil	<278		278		ug/L		10/26/15 10:20	10/30/15 16:37	1
Total Extractable Hydrocarbons	16100		463		ug/L		10/26/15 10:20	10/30/15 16:37	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
<i>n</i> -Octacosane	98		45 - 140	10/26/15 10:20	10/30/15 16:37	1

5

Client Sample Results

Client: Seneca Companies
Project/Site: Kelly Bulk

TestAmerica Job ID: 310-67406-1
SDG: 6031503

Client Sample ID: MW-10

Lab Sample ID: 310-67406-3

Date Collected: 10/22/15 16:20

Matrix: Ground Water

Date Received: 10/23/15 16:25

Sampler Name: Todd Felderman

Sampler Phone Number: 563-332-8000

Method: OA-2 - Iowa - Extractable Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	<333		333		ug/L		10/26/15 10:20	10/30/15 16:51	1
Diesel	54800		333		ug/L		10/26/15 10:20	10/30/15 16:51	1
Waste Oil	<333		333		ug/L		10/26/15 10:20	10/30/15 16:51	1
Total Extractable Hydrocarbons	55700		556		ug/L		10/26/15 10:20	10/30/15 16:51	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
<i>n</i> -Octacosane	97		45 - 140	10/26/15 10:20	10/30/15 16:51	1

5

Client Sample Results

Client: Seneca Companies
Project/Site: Kelly Bulk

TestAmerica Job ID: 310-67406-1
SDG: 6031503

Client Sample ID: MW-15

Lab Sample ID: 310-67406-4

Date Collected: 10/22/15 16:30

Matrix: Ground Water

Date Received: 10/23/15 16:25

Sampler Name: Todd Felderman

Sampler Phone Number: 563-332-8000

Method: OA-2 - Iowa - Extractable Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	<278		278		ug/L		10/26/15 10:20	10/30/15 17:06	1
Diesel	<278		278		ug/L		10/26/15 10:20	10/30/15 17:06	1
Waste Oil	<278		278		ug/L		10/26/15 10:20	10/30/15 17:06	1
Total Extractable Hydrocarbons	599	Z	463		ug/L		10/26/15 10:20	10/30/15 17:06	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
<i>n</i> -Octacosane	95		45 - 140	10/26/15 10:20	10/30/15 17:06	1

5

Client Sample Results

Client: Seneca Companies
Project/Site: Kelly Bulk

TestAmerica Job ID: 310-67406-1
SDG: 6031503

Client Sample ID: MW-16

Lab Sample ID: 310-67406-5

Date Collected: 10/22/15 16:40

Matrix: Ground Water

Date Received: 10/23/15 16:25

Sampler Name: Todd Felderman

Sampler Phone Number: 563-332-8000

Method: OA-2 - Iowa - Extractable Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	<278		278		ug/L		10/26/15 10:20	10/30/15 17:20	1
Diesel	<278		278		ug/L		10/26/15 10:20	10/30/15 17:20	1
Waste Oil	<278		278		ug/L		10/26/15 10:20	10/30/15 17:20	1
Total Extractable Hydrocarbons	506	Z	463		ug/L		10/26/15 10:20	10/30/15 17:20	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
<i>n</i> -Octacosane	110		45 - 140	10/26/15 10:20	10/30/15 17:20	1

5

Client Sample Results

Client: Seneca Companies
Project/Site: Kelly Bulk

TestAmerica Job ID: 310-67406-1
SDG: 6031503

Client Sample ID: MW-17

Lab Sample ID: 310-67406-6

Date Collected: 10/22/15 16:50

Matrix: Ground Water

Date Received: 10/23/15 16:25

Sampler Name: Todd Felderman

Sampler Phone Number: 563-332-8000

Method: OA-2 - Iowa - Extractable Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	<278		278		ug/L		10/26/15 10:20	10/30/15 17:34	1
Diesel	29900		278		ug/L		10/26/15 10:20	10/30/15 17:34	1
Waste Oil	<278		278		ug/L		10/26/15 10:20	10/30/15 17:34	1
Total Extractable Hydrocarbons	28700		463		ug/L		10/26/15 10:20	10/30/15 17:34	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
<i>n</i> -Octacosane	107		45 - 140	10/26/15 10:20	10/30/15 17:34	1

5

Lab Chronicle

Client: Seneca Companies
Project/Site: Kelly Bulk

TestAmerica Job ID: 310-67406-1
SDG: 6031503

Client Sample ID: MW-3

Lab Sample ID: 310-67406-1

Date Collected: 10/22/15 16:00

Matrix: Ground Water

Date Received: 10/23/15 16:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			106111	10/26/15 10:20	EEE	TAL CF
Total/NA	Analysis	OA-2		1	106848	10/31/15 03:56	LLS	TAL CF
Total/NA	Prep	3510C			106111	10/26/15 10:20	EEE	TAL CF
Total/NA	Analysis	OA-2		100	106983	11/02/15 19:51	LLS	TAL CF

6

Client Sample ID: MW-4

Lab Sample ID: 310-67406-2

Date Collected: 10/22/15 16:10

Matrix: Ground Water

Date Received: 10/23/15 16:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			106111	10/26/15 10:20	EEE	TAL CF
Total/NA	Analysis	OA-2		1	106804	10/30/15 16:37	LLS	TAL CF

Client Sample ID: MW-10

Lab Sample ID: 310-67406-3

Date Collected: 10/22/15 16:20

Matrix: Ground Water

Date Received: 10/23/15 16:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			106111	10/26/15 10:20	EEE	TAL CF
Total/NA	Analysis	OA-2		1	106804	10/30/15 16:51	LLS	TAL CF

Client Sample ID: MW-15

Lab Sample ID: 310-67406-4

Date Collected: 10/22/15 16:30

Matrix: Ground Water

Date Received: 10/23/15 16:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			106111	10/26/15 10:20	EEE	TAL CF
Total/NA	Analysis	OA-2		1	106804	10/30/15 17:06	LLS	TAL CF

Client Sample ID: MW-16

Lab Sample ID: 310-67406-5

Date Collected: 10/22/15 16:40

Matrix: Ground Water

Date Received: 10/23/15 16:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			106111	10/26/15 10:20	EEE	TAL CF
Total/NA	Analysis	OA-2		1	106804	10/30/15 17:20	LLS	TAL CF

Lab Chronicle

Client: Seneca Companies
Project/Site: Kelly Bulk

TestAmerica Job ID: 310-67406-1
SDG: 6031503

Client Sample ID: MW-17

Lab Sample ID: 310-67406-6

Date Collected: 10/22/15 16:50

Matrix: Ground Water

Date Received: 10/23/15 16:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			106111	10/26/15 10:20	EEE	TAL CF
Total/NA	Analysis	OA-2		1	106804	10/30/15 17:34	LLS	TAL CF

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Laboratory References:

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

Definitions/Glossary

Client: Seneca Companies
Project/Site: Kelly Bulk

TestAmerica Job ID: 310-67406-1
SDG: 6031503

Qualifiers

GC Semi VOA

Qualifier	Qualifier Description
Z	The chromatographic response does not resemble a typical fuel pattern.

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
CFL	Contains Free Liquid
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)

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Certification Summary

Client: Seneca Companies
Project/Site: Kelly Bulk

TestAmerica Job ID: 310-67406-1
SDG: 6031503

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-LAP, LLC	IHLAP		101044	11-01-16
Georgia	State Program	4	N/A	09-29-16
Illinois	NELAP	5	200024	11-29-15
Iowa	State Program	7	007	12-01-15
Kansas	NELAP	7	E-10341	01-31-15 *
Minnesota	NELAP	5	019-999-319	12-31-15
Minnesota (Petrofund)	State Program	1	3349	08-22-16
North Dakota	State Program	8	R-186	09-29-16
Oregon	NELAP	10	IA100001	09-29-16
Wisconsin	State Program	5	999917270	08-31-16

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* Certification renewal pending - certification considered valid.

TestAmerica Cedar Falls

Method Summary

Client: Seneca Companies
Project/Site: Kelly Bulk

TestAmerica Job ID: 310-67406-1
SDG: 6031503

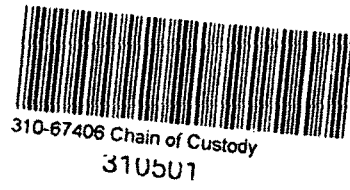
Method	Method Description	Protocol	Laboratory
OA-2	Iowa - Extractable Petroleum Hydrocarbons (GC)	Iowa DNR	TAL CF

Protocol References:

Iowa DNR = Iowa Department of Natural Resources

Laboratory References:

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



Cooler/Sample Receipt and Temperature

Client Information	
Client: <u>SENECA</u>	
City/State: <u>DAVENPORT IA</u>	Project: <u>TODD FELDRMAN 31711</u>
Receipt Information	
Date/Time Received: <u>10/23/15 16:25</u>	Received By: <u>PM</u>
Delivery Type: <input type="checkbox"/> UPS <input type="checkbox"/> FedEx <input type="checkbox"/> FedEx Ground <input type="checkbox"/> US Mail <input type="checkbox"/> Spee-Dee <input checked="" type="checkbox"/> TA Courier <input type="checkbox"/> TA Field Services <input type="checkbox"/> Client Drop-off <input type="checkbox"/> Other: _____	
Condition of Cooler/Containers	
Sample(s) received in Cooler?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <i>If yes: Cooler ID: <u>DI</u></i>
Multiple Coolers?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <i>If yes: Cooler # _____ of _____</i>
Cooler Custody Seals Present?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <i>If yes: Cooler custody seals intact? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No</i>
Sample Custody Seals Present?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <i>If yes: Sample custody seals intact? <input type="checkbox"/> Yes <input type="checkbox"/> No</i>
Trip Blank Present?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <i>If yes: Which VOA samples are in cooler? ↓</i>
Temperature Record	
Coolant: <input checked="" type="checkbox"/> Wet ice <input type="checkbox"/> Blue ice <input type="checkbox"/> Dry ice <input type="checkbox"/> Other: _____ <input type="checkbox"/> NONE	
Temperature Blank?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <i>ID & Bottle Type: _____</i>
NOTE: If yes, use temp blank for measurement. If no, specify sample ID(s) and bottle type used to take measurement.	
Thermometer ID: <u>H</u>	Correction Factor (°C): <u>-0.1</u>
Uncorrected Temp (°C): <u>2.6</u>	Corrected Temp (°C): <u>2.5</u>
Exceptions Noted	
1) If temperature exceeds criteria, was sample(s) received same day of sampling? <input type="checkbox"/> Yes <input type="checkbox"/> No	
a) <i>If yes: Is there evidence that the chilling process began?</i> <input type="checkbox"/> Yes <input type="checkbox"/> No	
2) If temperature is <0°C, are there obvious signs that the integrity of sample containers is compromised? (e.g., bulging septa, broken/cracked bottles?) <input type="checkbox"/> Yes <input type="checkbox"/> No	
NOTE: If yes, contact PM before proceeding. If no, proceed with login	
Additional Comments	

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Muehling, Angela

From: Todd Felderman [TFelderman@senecaco.com]
Sent: Monday, October 26, 2015 9:51 AM
To: Muehling, Angela
Subject: RE: TestAmerica Sample Login Confirmation files from 310-67406 Kelly Bulk (OA1 on COC - ambers jars received)

Yep, the samples should be logged for OA2 only.
I don't like it when I mess up.

Thanks

From: Muehling, Angela [mailto:angela.muehling@testamericainc.com]
Sent: Monday, October 26, 2015 9:22 AM
To: Todd Felderman
Subject: TestAmerica Sample Login Confirmation files from 310-67406 Kelly Bulk (OA1 on COC - ambers jars received)

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Hi Todd,

Attached, please find the Sample Confirmation files for job 310-67406; Kelly Bulk

The COC has OA1 marked, however, on the laboratory received 250 mL ambers containers. Do these samples need to be logged in for OA2 and not OA1 or should we have received vials?

Please feel free to contact me if you have any questions.

Thank you.
Angie

Please let us know if we met your expectations by rating the service you received from TestAmerica on this project by visiting our website at: [Project Feedback](#)

ANGELA C MUEHLING
Project Manager I

TestAmerica Cedar Falls
THE LEADER IN ENVIRONMENTAL TESTING

Tel: 319.277.2401
www.testamericainc.com

Reference: [132904]
Attachments: 2

Login Sample Receipt Checklist

Client: Seneca Companies

Job Number: 310-67406-1

SDG Number: 6031503

Login Number: 67406

List Number: 1

Creator: Facciani, Melene K

List Source: TestAmerica Cedar Falls

Question	Answer	Comment
Radioactivity wasn't checked or is \leq 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.	False	OA1 marked on COC. rcvd 250ml amber jars
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 $<6\text{mm}$ (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



Print | Help |

Well Search Report

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	2	Public wells Municipal 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	14	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: 733547/4636363
 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
347050	<u>38163</u>	T81NR7E7	Meas. +/- 230 ft	146 (m)	1497	1/1/1893	"Clinton, City Of"	Well type: Municipal

Public Wells								
Map ID	Well No.	Location	Accuracy	Dist. From Point	Well Depth	Construction/ Permit Date	Owner/Permittees	Other Information
347053	<u>38162</u>	T. 81N., R. 7E., Sec. 7, NE NW SW SW	Meas. +/- 230'	(m)	1763	11/17/1902	Clinton, City Of	Local name: Clinton #5; Status:
347049	<u>38163</u>	T. 81N., R. 7E., Sec. 7, NE NW NE NE	Meas. +/- 230'	146 (m)	1497	01/01/1893	Clinton, City Of	Local name: Clinton #4; Status:

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
347026	2128307	T. 81 N., R. 7E., Sec. 6,	nom. +/- 25m.	210 (m)	20	01/09/1999		Status: Plugged
347032	2105590	T. 81 N., R. 7E., Sec. 6,	nom. +/- 25m.	45 (m)	16	06/01/1998		Status: Plugged
347035	2105592	T. 81 N., R. 7E., Sec. 6,	nom. +/- 25m.	62 (m)	50	06/01/1998		Status: Plugged
347036	2105565	T. 81 N., R. 7E., Sec. 6,	nom. +/- 25m.	52 (m)	20	06/01/1998		Status: Plugged
347037	2105567	T. 81 N., R. 7E., Sec. 6,	nom. +/- 25m.	62 (m)	20	06/01/1998		Status: Plugged
347038	2105589	T. 81 N., R. 7E., Sec. 6,	nom. +/- 25m.	62 (m)	74	06/01/1998		Status: Plugged
347039	2114352	T. 81 N., R. 7E., Sec. 6,	nom. +/- 25m.	248 (m)	20	01/01/1999		Status: Plugged

347040	2106542	T. 81 N., R. 7E., Sec. 6,	nom. +/- 25m.	75 (m)	110	06/09/1998	Status: Plugged
347041	2106543	T. 81 N., R. 7E., Sec. 6,	nom. +/- 25m.	75 (m)	50	06/09/1998	Status: Plugged
347042	2106540	T. 81 N., R. 7E., Sec. 6,	nom. +/- 25m.	46 (m)	76	06/09/1998	Status: Plugged
347043	2106544	T. 81 N., R. 7E., Sec. 6,	nom. +/- 25m.	37 (m)	50	06/09/1998	Status: Plugged
347044	2106541	T. 81 N., R. 7E., Sec. 6,	nom. +/- 25m.	75 (m)	20	12/09/1998	Status: Plugged
347045	2106538	T. 81 N., R. 7E., Sec. 6,	nom. +/- 25m.	26 (m)	20	01/09/1998	Status: Plugged
347046	2106539	T. 81 N., R. 7E., Sec. 6,	nom. +/- 25m.	46 (m)	20	06/09/1998	Status: Plugged

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								

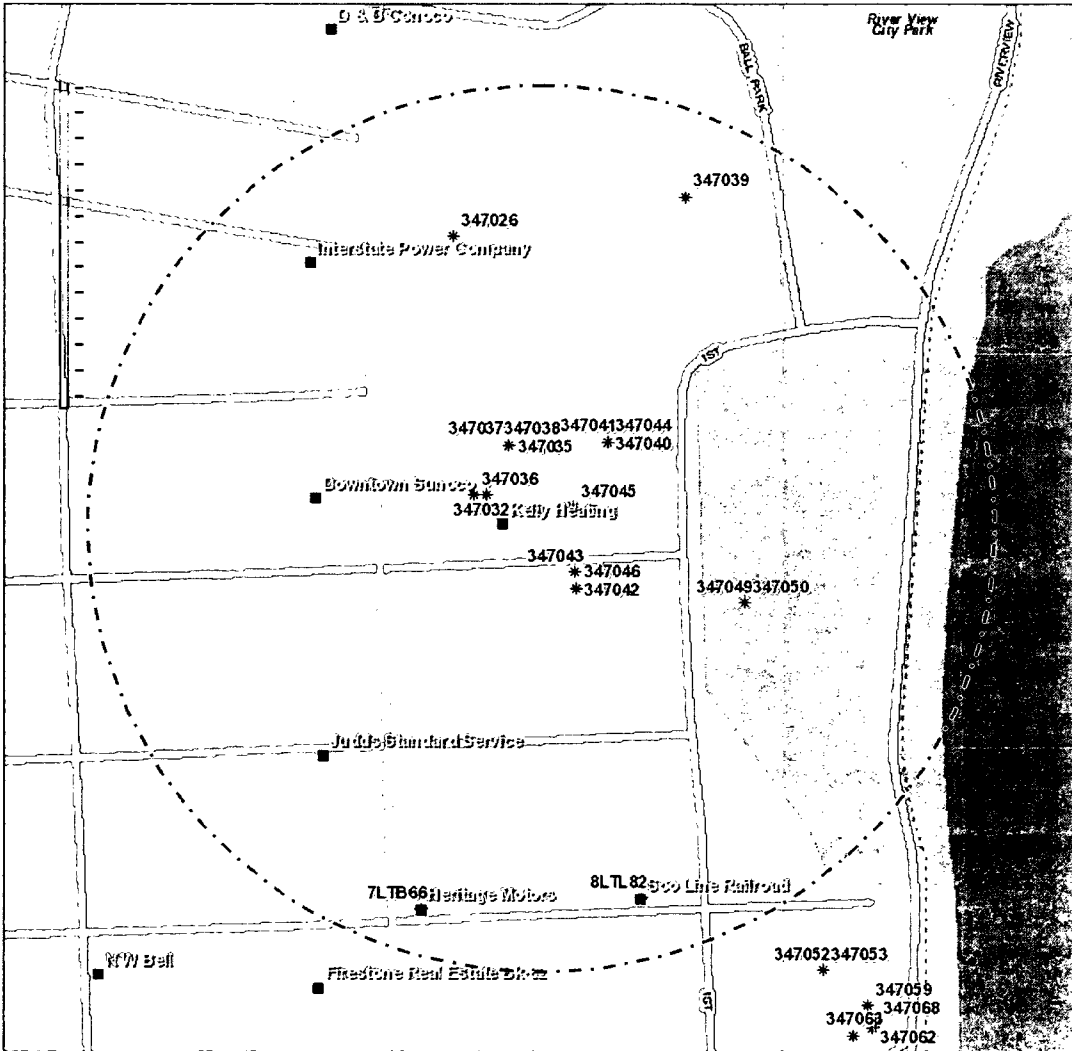
Ag Drainage Wells								
Map ID	Well No.	Location	Accuracy	Dist. From Point	Well Depth	Construction/ Permit Date	Owner/Permittees	Other Information
No records found from this data source								

No records found from this data source

PUBLIC FACILITY EXPLORER

Well Search Buffered Map

Subject: XY UTM Coordinates: 733547/4636363
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.

Appendix 13

Free Product Report