



**GEOTEK ENGINEERING
& TESTING SERVICES, INC.**
909 East 50th Street North
Sioux Falls, South Dakota 57104
605-335-5512 • FAX 605-335-0773
1-800-354-5512 www.geotekeng.com

March 15, 2010

Contaminated Sites Section
Iowa Department of Natural Resources
Wallace State Office Building
502 East 9th Street
Des Moines, IA 50319

Attn: Jim Kacer

Subj: Groundwater Sampling Results
Kerber Milling Company
Estherville, Iowa
Geotek #09-C70

Dear Mr. Kacer:

This correspondence is provided on behalf of Kerber Milling Company, Emmetsburg, Iowa. Enclosed are the results of groundwater sampling completed at the project site as required in February 22, 2010 correspondence from the Department. A brief discussion of the groundwater analytical results is provided below.

GeoTek mobilized to the project site on March 3, 2010 and installed a temporary monitoring well (TMW1) at the approximate location of previous soil boring SB3. The locations of TMW1 and SB3 are indicated on Figure 1. The well construction diagram is provided in Appendix A. There was no water in the well immediately after installation or approximately 1 hour after installation.

GeoTek returned to the site on March 8, 2010. The water level in the well was measured at 12.35 feet below the top of riser. The well was purged as much as possible, while still allowing for sufficient water to be present for the collection of samples for laboratory analysis. It appeared that the well would bail dry relatively quickly. Groundwater samples were collected and submitted to TestAmerica Laboratory for analysis of BTEX and TEH.

The laboratory report is provided in Appendix B. A review of the groundwater analytical data indicates that petroleum constituents are present. The BTEX and TEH concentrations do not exceed the standards for protected groundwater source (PGWS) receptors. Based on the IDNR's Tier 2 Risk Based Corrective Action (RBCA) criteria, the only groundwater target levels exceeded at the site are those for water supply wells.

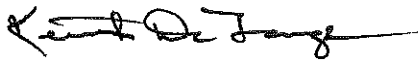
As noted in GeoTek's February 2, 2010 correspondence, a search for water supply wells was completed using the IDNR's well search data base. Public water supply wells were not identified within a 1000 foot radius of the site. It appeared that a non-drinking water well completed at a depth of greater than 200 feet was located approximately 1000 feet northwest of the site.

Based on the available information and data, it is our opinion that the identified petroleum constituents at the site do not represent a hazardous condition. We do not recommend additional assessment at the site. It is our recommendation that the temporary monitoring well be properly abandoned/plugged.

If there are questions concerning this correspondence or the project, please contact our office at **605-335-5512** or **1-800-354-5512**.

Sincerely,

GeoTek Engineering & Testing Services, Inc.



Keith DeLange
Sr. Project Manager
Certified Iowa Groundwater Professional #1368

cc: Kerber Milling Company, 1901 Main Street, P.O. Box 96, Emmetsburg, IA 50536
Michael Gabor, 111 N. Dodge Street, P.O. Box 617, Algona, IA 50511

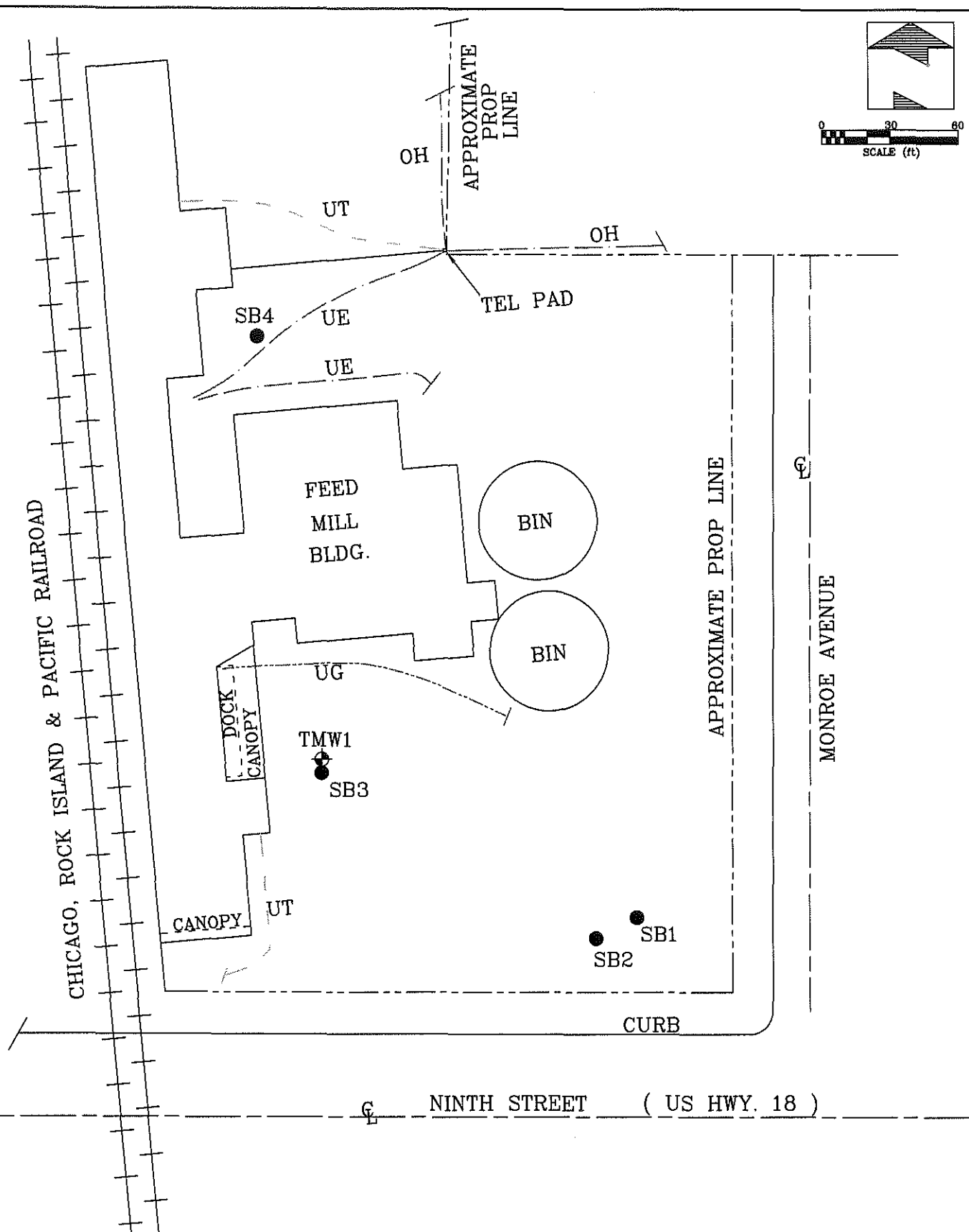


FIGURE 1
 SITE MAP
 KERBER MILLING COMPANY
 1817 MAIN ST.
 EMMETSBURG, IA

ACAD\GEOTEK\JERRY\09-C70

PROJECT#:10-089

DRAWN BY: BDK CHECKED BY:

GEOTEK ENGINEERING &
 TESTING SERVICES, INC.

APPENDIX A

SOIL BORING LOG AND MONITORING WELL CONSTRUCTION DIAGRAM

| Boring / Well Number: TMW-1 1 of 1 | | Facility Name: Kerber Milling Company | | Facility Street Address: 1901 Main Street Emmetsburg, IA | | |
|---|---------------------------|---|---------------------------------------|--|----------------------|---|
| Boring Depth (ft) X Diameter (in): 15.0 x 7.25 | | | | Drilling Method: 3.25" ID Hollow Stem Auger | | |
| Well Contractor Name: Roy Hanson | | | | Logged by: Roy Hanson | | |
| Registration Number: 6655 | | | | | | |
| Ground Surface Elevation (ASL): --- | | | Top of Casing Elevation (ASL): --- | | | |
| Date: 3/3/10 | | Date: 3/3/10 | | UST Number: | | |
| Start Time: 10:40 am | | End Time: 12:00 pm | | LUST Number: | | |
| Depth (feet) | Well Construction Details | Blow Count if applicable | Sample No. | Type* | PID / FID Reading | Rock Formations, Soil, Color and Classifications, Observations (moisture, odor, etc.) First column for USCS |
| | | | | | | <p>CLAY: a little gravel, black and brown, frozen to moist, a 7" layer of gravel at the surface</p> |
| 5 | | | | | | <p>CL LEAN CLAY WITH SAND: a little gravel, brown, moist, (CL)</p> |
| 10 | | | | | | <p>CL LEAN CLAY WITH SAND: a little gravel, dark brown, moist, (CL)</p> |
| 15 | | | | | | <p>Bottom of borehole at 15 feet.</p> |

* SS (split spoon) HS (hollow stem auger) FA (flight auger) NSR (no sample recovered) ** ND (non-detect)

| | | | | | |
|---------------------------|--------|---------------|--|--|--|
| Observations | Date: | 3-8-10 | | | |
| Water Depths | Level: | 12.35' | | | |
| Static Water Level Symbol | Time: | 10:35 | | | |

APPENDIX B

March 15, 2010

Client:

GEOTEK ENGINEERING & TESTING SERVICES
909 E. 50th Street
Sioux Falls, SD 57104

Work Order: CTC0481
Project Name: Kerber Milling - Emmetsburg, IA
Project Number: 10-089

Attn: Keith Delange

Date Received: 03/10/10

The Chain(s) of Custody, 2 pages, are included and are an integral part of this report.

If you have any questions relating to this analytical report, please contact your Laboratory Project Manager at 1-(800)750-2401

| SAMPLE IDENTIFICATION | LAB NUMBER | COLLECTION DATE AND TIME |
|-----------------------|------------|--------------------------|
| TMW-1 | CTC0481-01 | 03/08/10 10:35 |

Samples were received into laboratory at a temperature of 3.40 °C.

NELAC states that samples which require thermal preservation shall be considered acceptable if the arrival temperature is within 2 degrees C of the required temperature or the method specified range. For samples with a temperature requirement of 4 degrees C, an arrival temperature from 0 degrees C to 6 degrees C meets specifications. Samples that are delivered to the laboratory on the same day that they are collected may not meet these criteria. In these cases, the samples are considered acceptable if there is evidence that the chilling process has begun, such as arrival on ice.

Please refer to the Temperature and Sample Receipt form that is included with this report for additional information regarding the condition of samples at the time of receipt by the laboratory.

The reported results were obtained in compliance with the 2003 NELAC standards unless otherwise noted.

Iowa Certification Number: 007

Reproduction of this analytical report is permitted only in its entirety. This report shall not be reproduced except in full without the written approval of the laboratory.

TestAmerica Laboratories, Inc. certifies that the analytical results contained herein apply only to the specific sample analyzed.

Approved By:



Iowa UST Lab Certification No. 007

TestAmerica Cedar Falls
Angela Muehling
Project Coordinator

GEOTEK ENGINEERING & TESTING SERVICES
909 E. 50th Street
Sioux Falls, SD 57104
Keith Delange

Work Order: CTC0481
Project: Kerber Milling - Emmetsburg, IA
Project Number: 10-089

Received: 03/10/10
Reported: 03/15/10 13:26

ANALYTICAL REPORT

| Analyte | Sample Result | Data Qualifiers | Units | Quan. Limit | Dilution Factor | Date Analyzed | Analyst | Seq/ Batch | Method |
|--|---------------|-----------------|-------|-------------|-------------------------|----------------|-----------------------|------------|--------------|
| Sample ID: CTC0481-01 (TMW-1 - Ground Water) | | | | | Sampled: 03/08/10 10:35 | | Recvd: 03/10/10 13:35 | | |
| Sampled By: Jeff Thursheim | | | | Phone | 605-335-5512 | | | | |
| UST Volatile Compounds by GC | | | | | | | | | |
| Benzene | 67.4 | | ug/L | 10.0 | 5 | 03/11/10 23:58 | kib | 10C0428 | OA-1 - 8021B |
| Toluene | 63.8 | | ug/L | 10.0 | 5 | 03/11/10 23:58 | kib | 10C0428 | OA-1 - 8021B |
| Ethylbenzene | 115 | | ug/L | 10.0 | 5 | 03/11/10 23:58 | kib | 10C0428 | OA-1 - 8021B |
| Xylenes, total | 566 | | ug/L | 15.0 | 5 | 03/15/10 12:31 | kib | 10C0508 | OA-1 - 8021B |
| Surr: 4-Bromofluorobenzene (55-130%) | 108 % | | | | | | | | |
| Surr: 4-Bromofluorobenzene (55-130%) | 101 % | | | | | | | | |
| VOC Preservation Check | | | | | | | | | |
| pH | <2.00 | | units | 2.00 | 1 | 03/11/10 09:46 | kib | 10C0387 | SW |
| UST ANALYSIS PARAMETERS | | | | | | | | | |
| Total Extractable Hydrocarbons | 9030 | | ug/L | 300 | 1 | 03/11/10 11:45 | rdm | [CALC] | OA-2 - 8015B |
| Diesel | 2300 | Q | ug/L | 300 | 1.01 | 03/11/10 11:45 | rdm | 10C0346 | OA-2 |
| Gasoline | 6150 | | ug/L | 300 | 1.01 | 03/11/10 11:45 | rdm | 10C0346 | OA-2 |
| Motor Oil | 579 | Q | ug/L | 300 | 1.01 | 03/11/10 11:45 | rdm | 10C0346 | OA-2 |
| Surr: Octacosane (35-135%) | 126 % | | | | | | | | |

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SAMPLE EXTRACTION DATA

| Parameter | Batch | Lab Number | Wt/Vol Extracted | Extracted Vol | Date | Analyst | Extraction Method |
|-------------------------|---------|------------|---------------------|---------------|----------------|---------|----------------------|
| UST ANALYSIS PARAMETERS | | | | | | | |
| OA-2 | 10C0346 | CTC0481-01 | 990.00 | 1.00 | 03/10/10 14:32 | JDB | SW 3510C GC |
| OA-2 - 8015B | [CALC] | CTC0481-01 | 1.00 | 1.00 | 03/10/10 14:32 | | [CALC] |

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LABORATORY BLANK QC DATA

| Analyte | Seq/ Batch | Source Result | Spike Level | Units | MDL | MRL | Result | Dup Result | % REC | Dup %REC | % REC Limits | RPD RPD | RPD Limit | Q |
|-------------------------------------|---------------|------------------|----------------|-------|-----|------|--------|---------------|----------|-------------|-----------------|------------|--------------|---|
| UST Volatile Compounds by GC | | | | | | | | | | | | | | |
| Benzene | 10C0428 | | | ug/L | N/A | 2.00 | <2.00 | | | | | | | |
| Toluene | 10C0428 | | | ug/L | N/A | 2.00 | <2.00 | | | | | | | |
| Ethylbenzene | 10C0428 | | | ug/L | N/A | 2.00 | <2.00 | | | | | | | |
| Xylenes, total | 10C0428 | | | ug/L | N/A | 3.00 | <3.00 | | | | | | | |
| Surrogate: 4-Bromofluorobenzene | 10C0428 | | | ug/L | | | | | 108 | | 55-130 | | | |
| Benzene | 10C0508 | | | ug/L | N/A | 2.00 | <2.00 | | | | | | | |
| Toluene | 10C0508 | | | ug/L | N/A | 2.00 | <2.00 | | | | | | | |
| Ethylbenzene | 10C0508 | | | ug/L | N/A | 2.00 | <2.00 | | | | | | | |
| Xylenes, total | 10C0508 | | | ug/L | N/A | 3.00 | <3.00 | | | | | | | |
| Surrogate: 4-Bromofluorobenzene | 10C0508 | | | ug/L | | | | | 100 | | 55-130 | | | |
| UST ANALYSIS PARAMETERS | | | | | | | | | | | | | | |
| Diesel | 10C0346 | | | ug/L | N/A | 300 | <300 | | | | | | | |
| Gasoline | 10C0346 | | | ug/L | N/A | 300 | <300 | | | | | | | |
| Motor Oil | 10C0346 | | | ug/L | N/A | 300 | <300 | | | | | | | |
| Surrogate: Octacosane | 10C0346 | | | ug/L | | | | | 101 | | 35-135 | | | |

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Received: 03/10/10
Reported: 03/15/10 13:26

LCS/LCS DUPLICATE QC DATA

| Analyte | Seq/ Batch | Source Result | Spike Level | Units | MDL | MRL | Result | Dup Result | % REC | Dup %REC | % REC Limits | RPD RPD | RPD Limit | Q |
|-------------------------------------|---------------|------------------|----------------|-------|-----|-----|--------|---------------|----------|-------------|-----------------|------------|--------------|----|
| UST Volatile Compounds by GC | | | | | | | | | | | | | | |
| Benzene | 10C0428 | | 48.0 | ug/L | N/A | N/A | 46.1 | | 96 | | 45-105 | | | |
| Toluene | 10C0428 | | 48.0 | ug/L | N/A | N/A | 49.6 | | 103 | | 65-105 | | | |
| Ethylbenzene | 10C0428 | | 48.0 | ug/L | N/A | N/A | 52.7 | | 110 | | 65-110 | | | |
| Xylenes, total | 10C0428 | | 144 | ug/L | N/A | N/A | 159 | | 111 | | 65-110 | | | L5 |
| Surrogate: 4-Bromofluorobenzene | 10C0428 | | | ug/L | | | | | 110 | | 55-130 | | | |
| Benzene | 10C0508 | | 48.0 | ug/L | N/A | N/A | 38.9 | | 81 | | 45-105 | | | |
| Toluene | 10C0508 | | 48.0 | ug/L | N/A | N/A | 43.6 | | 91 | | 65-105 | | | |
| Ethylbenzene | 10C0508 | | 48.0 | ug/L | N/A | N/A | 46.3 | | 97 | | 65-110 | | | |
| Xylenes, total | 10C0508 | | 144 | ug/L | N/A | N/A | 141 | | 98 | | 65-110 | | | |
| Surrogate: 4-Bromofluorobenzene | 10C0508 | | | ug/L | | | | | 101 | | 55-130 | | | |
| UST ANALYSIS PARAMETERS | | | | | | | | | | | | | | |
| Diesel | 10C0346 | | 2000 | ug/L | N/A | 300 | 2040 | 2150 | 102 | 107 | 40-135 | 5 | 30 | |
| Surrogate: Octacosane | 10C0346 | | | ug/L | | | | | 110 | 112 | 45-140 | | | |

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MATRIX SPIKE/MATRIX SPIKE DUPLICATE QC DATA

| Analyte | Seq/ Batch | Source Result | Spike Level | Units | MDL | MRL | Result | Dup Result | % REC | Dup %REC | % REC Limits | RPD RPD | Limit | Q |
|--|---------------|------------------|----------------|-------|-----|-----|--------|---------------|----------|-------------|-----------------|------------|-------|---|
| UST Volatile Compounds by GC | | | | | | | | | | | | | | |
| QC Source Sample: CTC0397-04 | | | | | | | | | | | | | | |
| Benzene | 10C0428 | 0.637 | 48.0 | ug/L | N/A | N/A | 47.2 | 46.8 | 97 | 96 | 45-110 | 1 | 10 | |
| Toluene | 10C0428 | 1.87 | 48.0 | ug/L | N/A | N/A | 52.1 | 51.4 | 105 | 103 | 50-115 | 1 | 10 | |
| Ethylbenzene | 10C0428 | 2.65 | 48.0 | ug/L | N/A | N/A | 55.8 | 55.2 | 111 | 109 | 55-120 | 1 | 10 | |
| Xylenes, total | 10C0428 | 8.71 | 144 | ug/L | N/A | N/A | 169 | 168 | 112 | 110 | 55-120 | 1 | 10 | |
| Surrogate: 4-Bromofluorobenzene | 10C0428 | | | ug/L | | | | | 109 | 110 | 55-130 | | | |
| QC Source Sample: CTC0397-04RE1 | | | | | | | | | | | | | | |
| Benzene | 10C0508 | 0.673 | 48.0 | ug/L | N/A | N/A | 41.1 | 40.9 | 84 | 84 | 45-110 | 0 | 10 | |
| Toluene | 10C0508 | 0.761 | 48.0 | ug/L | N/A | N/A | 47.7 | 47.5 | 98 | 97 | 50-115 | 0 | 10 | |
| Ethylbenzene | 10C0508 | 0.855 | 48.0 | ug/L | N/A | N/A | 51.0 | 51.0 | 105 | 105 | 55-120 | 0 | 10 | |
| Xylenes, total | 10C0508 | 3.28 | 144 | ug/L | N/A | N/A | 155 | 156 | 106 | 106 | 55-120 | 0 | 10 | |
| Surrogate: 4-Bromofluorobenzene | 10C0508 | | | ug/L | | | | | 101 | 102 | 55-130 | | | |

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CERTIFICATION SUMMARY

TestAmerica Cedar Falls

| Method | Matrix | Nelac | Iowa |
|--------------|--------------------|-------|------|
| OA-1 - 8021B | Water - NonPotable | X | X |
| OA-2 - 8015B | Water - NonPotable | | |
| OA-2 | Water - NonPotable | X | X |
| SW | Water - NonPotable | | |

Any abnormalities or departures from sample acceptance policy shall be documented on the 'Sample Receipt and Temperature Log Form' and 'Sample Non-conformance Form' (if applicable) included with this report.

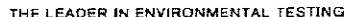
For information concerning certifications of this facility or another TestAmerica facility, please visit our website at www.TestAmericaInc.com

Samples collected by TestAmerica Field Services personnel are noted on the Chain of Custody (COC) and are sampled in accordance with TA-CF SOP CF-FSS-01.

DATA QUALIFIERS AND DEFINITIONS

L5 Laboratory Control Sample was outside of acceptance limits. The MS or MSD was used to validate the batch.
Q Poor chromatographic match to standard.

ADDITIONAL COMMENTS



Cedar Falls Division
704 Enterprise Drive
Cedar Falls, IA 50613

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

| | | | | |
|--------------------------|---------------------------------------|------|-----------------------|-------------------------|
| Company: | Geotek Engineering & Testing Services | | Your PO #: | |
| Send Report To: | Keith Delange | | Invoice To: | Geotek Engineering |
| Address: | 909 East 50th Street | | TA Quote #: | |
| City/State/Zip Code: | Sioux Falls, SD 57104 | | Project Name: | Kerber Milling Co |
| Telephone Number: | 605-335-5512 | Fax: | 605-335-0773 | Project Number: |
| | | | | 10-089 |
| Sampled by: (Print Name) | Jeff Thurstein | | Project Mgr. Email: | kdelainge@geotekeng.com |
| (Signature) | JH Thur | | Proj. Mgr. Telephone: | 605-335-5512 |

[illegible]

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

704 ENTERPRISE DRIVE • CEDAR FALLS, IA 50613
800-750-2401 • 319-277-2425 FAX

Sample Receipt and Temperature Log Form

Client: Geotek Project: _____

City: _____

Date: 3-10-10 Receiver's Initials: CH Time (Delivered): 13:35

Temperature Record:

| |
|--|
| Cooler ID# (If Applicable) <u>Client</u> |
| <u>3.4</u> °C <u>On Ice</u> |

☒ Temp Blank

☐ Temperature out of compliance

Thermometer:

- ☐ IR - 61997671 'B'
☒ IR - 90876942 'C'
☐ IR - 61854108
☐ 22126775

Courier:

| | |
|--|--|
| <input type="checkbox"/> UPS | <input type="checkbox"/> TA Courier |
| <input checked="" type="checkbox"/> FedEx | <input type="checkbox"/> TA Field Services |
| <input type="checkbox"/> FedEx Ground | <input type="checkbox"/> Client |
| <input type="checkbox"/> US Postal Service | <input type="checkbox"/> Other |
| <input type="checkbox"/> Spee-Dee | |

Custody seals present?

☐ Yes

Custody seals intact?

☐ Yes ☐ No

☐ Non-Conformance report started

Exceptions Noted

- ☐ Sample(s) not received in a cooler.
☐ Samples(s) received same day of sampling.
☐ Evidence of a chilling process
☐ Temperature not taken:

*Refer to SOP CF-SS-01 for Temperature Criteria

H:\QA Folder\QA Forms & Log Book pgs\Cooler Receipt rev15.doc