



Stanley Consultants

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INSMITTAL

Doc # 23411

TO: Hylton Jackson
Contaminated Sites Section
Iowa Department of Natural Resources
502 East 9th Street
Des Moines, IA 50319-0034
515-242-5084

DATE: November 22, 2010
PROJECT: United Suppliers-
Pacific Junction Facility
LOCATION: 60597 195th St
Pacific Junction, Iowa
PROJECT NO.: 22453.01

SUBJECT: United Suppliers Pacific Junction
Sampling Plan

CONTRACT NO.:

WE ARE SENDING YOU THE FOLLOWING ITEM(S):

ATTACHED UNDER SEPARATE COVER HAND DELIVERED VIA FAX VIA EMAIL

THESE ITEMS ARE SUBMITTED:

AT YOUR REQUEST FOR YOUR REVIEW AND COMMENT
 FOR YOUR APPROVAL FOR YOUR SIGNATURE
 FOR YOUR FILES FOR YOUR USE
 FOR YOUR INFORMATION OTHER

<u>QTY.</u>	<u>DESCRIPTION</u>
1	United Suppliers Pacific Junction Sampling Plan

Dear Mr. Jackson

Enclosed please find one copy of the Pacific Junction Sampling Plan, submitted on behalf of United Suppliers.

Please let me know if you need additional information or have any questions.

Thank you,

DISTRIBUTION:

2 Copies:
Jim Michaelson
United Suppliers
30473 260th Street, Box 538
Eldora, Iowa 50627
641-858-2341

SIGNED BY: *Wyatt McCain*
Wyatt McCain

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RECEIVED BY:

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Sampling Plan – Supplemental Site Assessment

United Suppliers - Pacific Junction Facility
60597 195th St
Pacific Junction, Iowa

United Suppliers
Eldora, Iowa

Final
November, 2010
23235.01



Stanley Consultants INC.

A Stanley Group Company
Engineering, Environmental and Construction Services - Worldwide

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Section 1

Background

A Phase II ESA was performed on this site by Stanley Consultants in January 2010, as requested by the Iowa Department of Natural Resources (IDNR) letter dated September 29, 2009.

Stanley Consultants advanced three soil borings completed as permanent groundwater monitoring wells. Nitrate as nitrogen was detected in all soil borings and in the on-site disturbed soil pile samples at levels below the Iowa Statewide Standard. Nitrite and ammonia were below detection limits in soils. Nitrate concentrations in groundwater samples exceeded protected groundwater standards in all monitoring wells. Nitrite concentrations in groundwater samples were identified in MW-3 only, and were below protected groundwater standards. Ammonia was identified above protected groundwater standards in MW-2, and MW-3. Nitrate concentration in the Site Well was below the drinking water standard.

Based on the findings of the previous investigation, IDNR is requiring monitoring of the groundwater monitoring wells and the Site Well.

The following sampling plan will be executed to monitor concentrations of nitrate, nitrite, and ammonia contamination in groundwater at the United Suppliers Pacific Junction facility.

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Section 2

Site Description

The United Suppliers—Pacific Junction facility is located in the NW¼ of S28 T72N R43W. The site consists of approximately 15 ½ acres located 1 ½ miles south of Pacific Junction. Located on the property are a “pitless” truck scale, maintenance shop, two enclosed rail under car unload areas for dry fertilizer, finished liquid fertilizer tank farm, dry fertilizer storage and mix area (under roof), contained concrete load out pad, facility water well, diked fertilizer ingredient tank farm, concrete load out pad for incoming ingredients, 30,000-gallon anhydrous ammonia storage tank, large tank storage area for liquid fertilizer, 1.35-acre basin, reactor pad, and parts and equipment storage building.

The site is relatively flat at elevation 955 mean sea level (msl) with a slight slope to the south toward Keg Creek, located approximately ½ mile to the south-southeast. A Site Map is in the Appendix.

Groundwater Sampling

Prior to sampling, the depth to groundwater will be measured in each well. An updated groundwater gradient and flow direction map will be included in the report to IDNR.

Each monitoring well will be purged dry or of 10 well volumes, whichever comes first. After allowing the well to recover, one groundwater sample will be collected from each well and one sample will also be collected from the Site Well using a disposable bailer. Groundwater samples will be analyzed in accordance with Table 3-1 below.

Groundwater contamination results will be compared to the Protected Groundwater Standards in 567 IAC Chapter 137.

A Groundwater Sampling Map is included in the Appendix of this report.

Table 3-1 Groundwater Sample Summary

Site Name: United Suppliers—Pacific Junction Site						
Project Manager: Cynthia Quast				Project Number:		Date: November 2010
Number of Samples	Matrix	Location	Purpose	Descriptor	Analysis	Method
1	Groundwater	MW-1	Parameter groundwater concentration	Existing well	Nitrate-N Nitrite-N Ammonia-N	SM 4500 EPA 350.1
1	Groundwater	MW-2	Parameter groundwater concentration	Existing well	Nitrate-N Nitrite-N Ammonia-N	SM 4500 EPA 350.1
1	Groundwater	MW-3	Parameter groundwater concentration	Existing well	Nitrate-N Nitrite-N Ammonia-N	SM 4500 EPA 350.1
1	Groundwater	Site Well	Potential receptor contamination	Existing well	Nitrate-N Nitrite-N Ammonia-N	SM 4500 EPA 350.1

Decontamination Procedures

Between samples, all non-disposable sampling equipment will be decontaminated. The decontamination procedure generally involves the following:

- 1) Brush off visible mud or dirt; scrub and wash with clean water. Organic-free water, distilled water, or tap water may be used; the tap water source must be uncontaminated.
- 2) Scrub and wash with trisodium phosphate,alconox or other approved detergent.
- 3) Rinse with clean water, preferably de-ionized or distilled water.

Upon completion of sampling activities, all equipment must be decontaminated before leaving the site.

Sample Handling and Custody Requirements

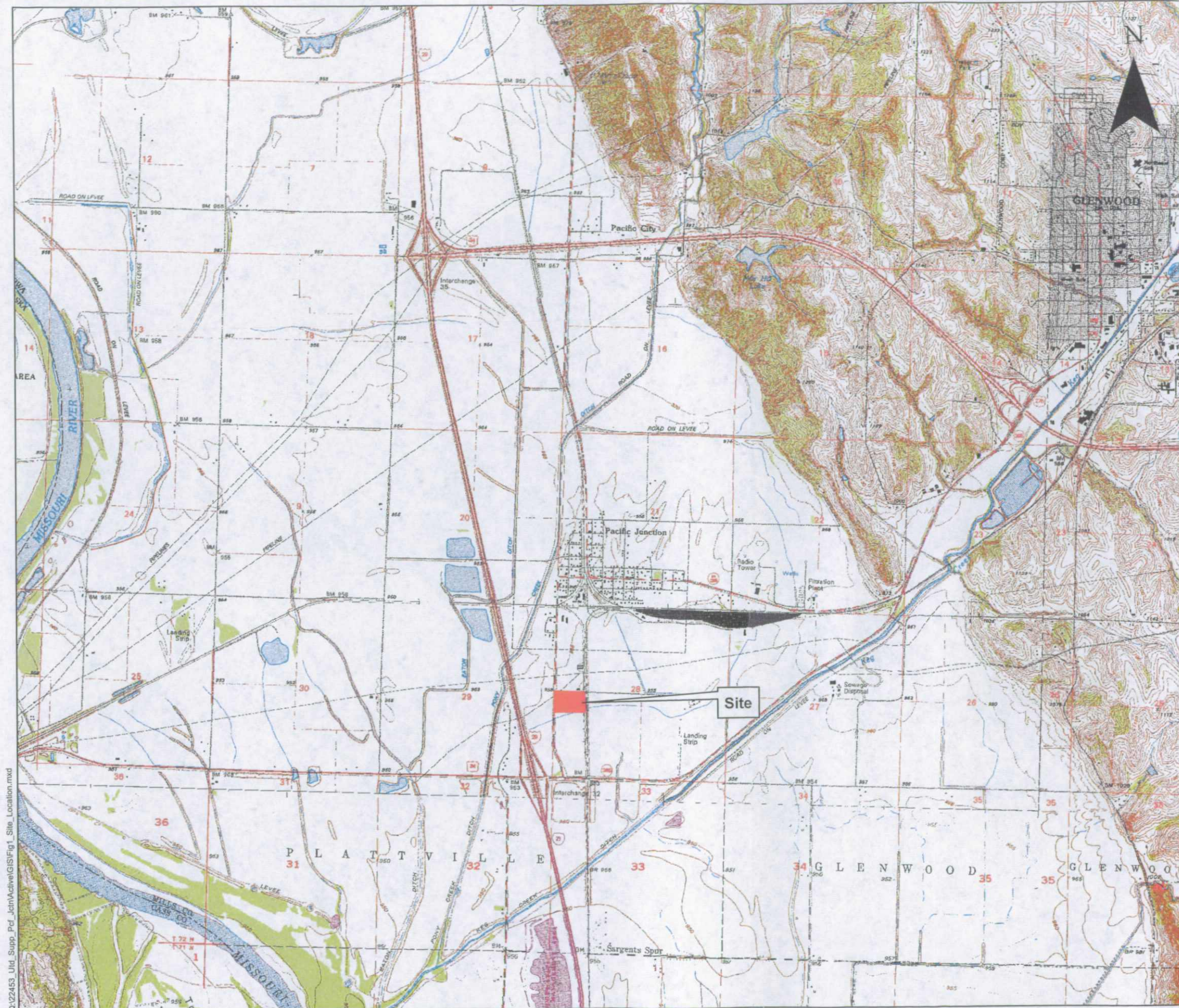
Samples for laboratory analysis will be properly preserved and immediately prepared for shipment. The samples will remain in the custody of Stanley Consultants until they are shipped via commercial carrier (i.e., DHL, Fed Ex, and UPS), delivered directly to TestAmerica in Cedar Falls, Iowa, or picked up by a TestAmerica courier. All samples collected in the field will be placed in proper sample containers, labeled, and stored in an iced cooler from the time of collection through sample shipment or field screening. Stanley Consultants personnel will place the samples selected for offsite laboratory analysis into laboratory prepared containers. The container labels will indicate:

- Time and date of collection,
- Name of person collecting the sample,
- Type of sample,
- Sample designation and depth,
- Name of site,
- Project number, and
- Requested analysis.

A chain-of-custody (COC) record will accompany all samples from containerization through shipment to the analytical laboratory. Each COC record will be filled out and signed in permanent ink by the Stanley Consultant's field team member.

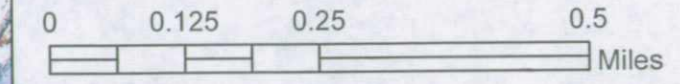
Appendix A

Site Figures

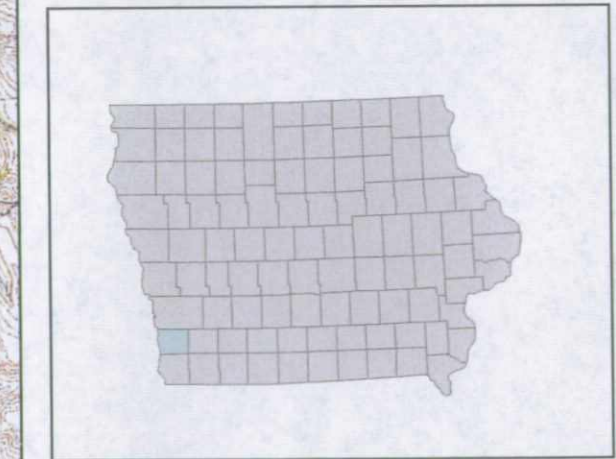


Legend

■ Site



Notes:
 1. 2009 Aerial from Natural Resources Geographic Information Systems Library (NRGIS).

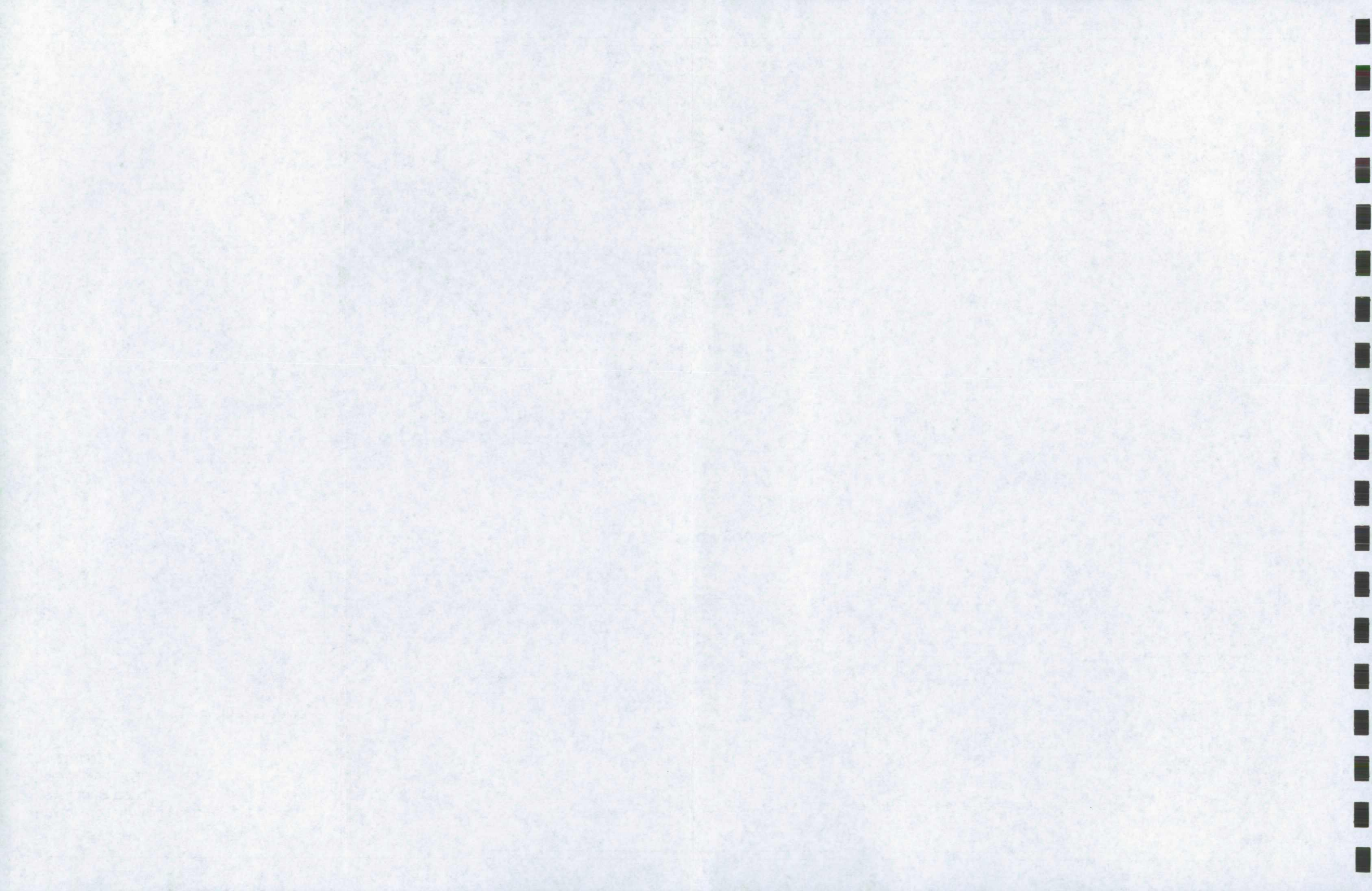



Stanley Consultants INC

February 2010

FIGURE 1
SITE LOCATION MAP
 United Suppliers
 Pacific Junction, Iowa




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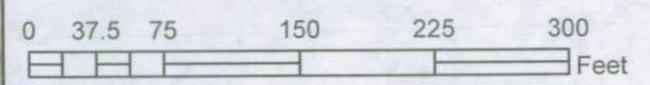


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Legend

-  Site Well
-  Monitoring Well Sampling Location
-  Site



- Notes:
1. 2009 Aerial from Natural Resources Geographic Information Systems Library (NRGIS).
 2. Property boundary is approximate.



November 2010

FIGURE 2
GROUNDWATER SAMPLE LOCATION MAP
 United Suppliers
 Pacific Junction, IA

