

**Site Name: United Suppliers, Pacific Junction**

**Pre-Remedial Initial Site Screening (ISS)**

Project Manager: Hylton Jackson

Date: 12/13/2011

**CON 12-15  
Doc # 26127**

***Summarize the site history (past usages, past ownerships, wastes, known or suspected contamination pathways such as tanks, septic tank/tile field, lagoon, land applications, S.W. burial, etc)***

The 15.5-acre site is an active agricultural fertilizer production/storage facility located 1.5 miles south of Pacific Junction, Iowa. The facility stores liquid, dry, and anhydrous fertilizers and ingredients. The site contains load out facilities, office space, equipment maintenance/storage areas, and earthen secondary containment/storm water control structures. In March of 1997, a one million gallon tank containing 10-34-0 liquid fertilizer ruptured and damaged a nearby one million gallon tank containing liquid 32% nitrogen. The resulting release overwhelmed the dike system. A secondary dike was constructed and the facility recovered as much product as possible. As a result of onsite remedial activities, this secondary dike system was converted to a rubber-lined retention basin (235' X 250' X 5') that has been maintained by the facility. In September 2009, the IDNR visited the site to investigate a complaint. As a result of that visit, the facility was required to develop an Emergency Response Plan, perform an engineering review of the basin's specifications/construction, and conduct an Environmental Site Assessment (ESA) to investigate possible overtopping of the retention basin and investigate an area of observed, disturbed soil.

***Briefly describe the site assessment that was conducted (number of borings, monitoring wells, number of samples, depth of soil samples and monitoring wells, analysis, etc.)***

Three soil borings were advanced to 12 feet bgs on the site in January of 2010. All three borings were converted to monitoring wells. Soil samples were collected from each of the borings and the pile of disturbed soil and analyzed for nitrate, nitrite, and ammonia. Groundwater in the three monitoring wells was encountered at ~ 7 feet bgs. Water samples were collected from each of the monitoring wells, an onsite water supply well, and the retention basin and all were analyzed for nitrate, nitrite, and ammonia. Water from the retention basin was also analyzed for total metals. Well logs for the borings/monitoring wells indicate 3 to 4 feet of silty clay overlies Missouri River alluvium. Hydraulic conductivity was determined to be 32.4 m/day (MW-1) and the aquifer is considered to be a protected groundwater source. The three monitoring wells and the onsite water supply well have been sampled five times since the initial sampling round.

**Summarize the findings and conclusions regarding the contaminants found and their extent and concentrations. Relate those values to known criteria such as statewide standards, MCLs, water quality standards, background levels or other benchmarks used to determine site priority.**

**Soil;**

Nitrate was detected in all soil samples with all concentrations well below the Statewide Standard. Nitrite and ammonia were not detected in any soil sample above laboratory detection limits.

**Groundwater;**

Location	Sample Date	Nitrate	Nitrite	Ammonia
MW-1	1/13/2010	98.1	<0.100	<0.200
	12/13/2010	42.0	<0.100	<0.200
	2/23/2011	17.9	<0.100	1.22
	5/3/2011	30.5	0.118	0.237
	8/2/2011	11.2	0.118	0.212
	10/17/2011	4.08	<0.0140	0.363
MW-2	1/13/2010	223	<0.100	54.8
	12/13/2010	225	<0.100	14.3
	2/23/2011	84.4	0.312	10.6
	5/3/2011	84.3	0.364	24.5
	8/2/2011	101	0.101	19.0
	10/17/2011	25.6	0.0187	1.14
MW-3	1/13/2010	223	0.537	168
	12/13/2010	112	<0.100	126
	2/23/2011	51.1	0.173	54.5
	5/3/2011	48.4	0.261	35.1
	8/2/2011	43.1	<0.100	60.2
	10/17/2011	47.5	0.322	3.22
Site Well	1/13/2010	0.67	<0.100	<0.20
	12/13/2010	1.86	<0.100	0.914
	2/23/2011	0.26	<0.100	0.875
	5/3/2011	0.27	<0.100	0.855
	8/2/2011	0.77	<0.100	<0.20
	10/17/2011	0.74	<0.100	0.843
Retention Basin	1/13/2010	151	0.278	292
Statewide Standard for Protected Groundwater mg/l		10	1	30
Statewide Standard for Non-Protected Groundwater mg/l		56	5	150

**Retention basin water metals;**

Arsenic, cadmium, chromium, and molybdenum were detected in the sample at concentrations that moderately exceeded the respective Statewide Standard.

Barium, copper, lead, mercury, nickel, selenium, and silver were detected a concentrations below applicable Statewide Standards and potassium was detected (no applicable Statewide Standard).

**Identify on-site or off-site potential and actual targets (e.g., municipal wells, private wells, drinking water intakes). What is known of the neighboring area, i.e., are there residences, businesses, public use areas, etc.? Are there utility lines that could be impacted by site contaminants? Identify any other use/location issues that deserve consideration.**

The facility is located 2.35 miles northeast of the Missouri River. The site is not in any source water protection zone. Other than the 100-foot deep onsite, non-drinking water well, the nearest private wells (and residences) are located 2,000 feet west of the site. Records available

for one private well, Flossie Kolbe, indicate it is 67 feet deep. Records for other wells in the area indicate they are finished at depths ranging from 30 to 100 feet deep.

***Rate the site on a scale of 1 to 4, in decreasing order of severity or priority.***

**3**

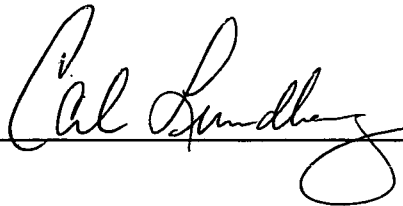
***Summarize the reasoning, knowledge or any other information used in determining your recommendation regarding the priority assigned to this site.***

The three monitoring wells and the onsite water supply well have been sampled six times over the last two years (beginning January 2010). The nitrite concentrations have never exceeded the Statewide Standard. Nitrate and ammonia concentrations have been declining and only the nitrate concentrations in MW-2 and MW-3 currently exceed the Statewide Standard. The 100-foot deep onsite well has never shown an impact above a Statewide Standard. In the one water sample collected from the retention basin, nitrate, ammonia, and some metals concentrations modestly exceed their respective standards. The ESA does not indicate that any deficiencies in the retention basin were noted during the engineering evaluation. The information presented in the ESA and subsequent monitoring events does not indicate that a significant threat to the environment or human health currently exists. No further assessment or groundwater monitoring will be required at this time. Please note that, especially as this is an active facility, any future site information may warrant further environmental assessment activities.

**Site recommended for:**

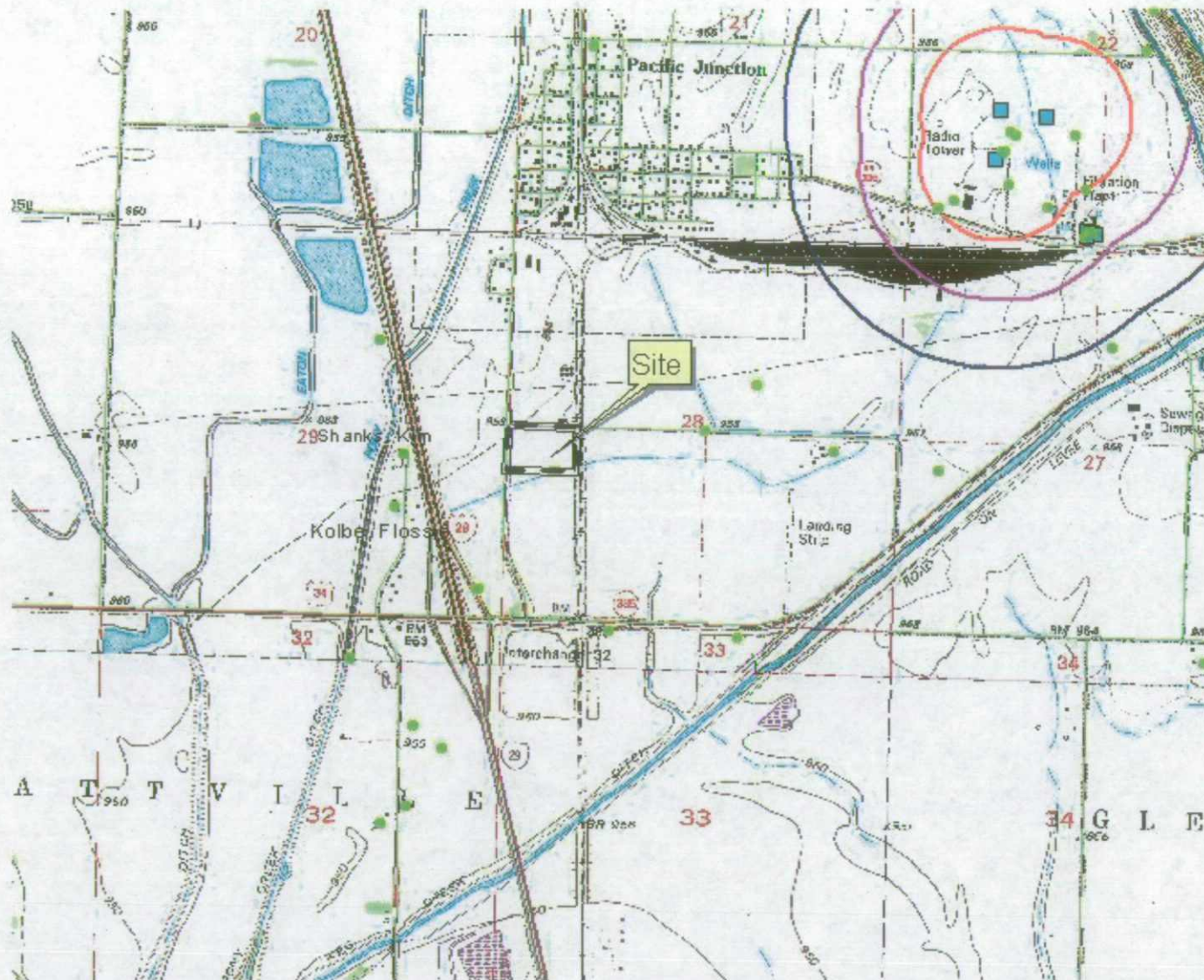
- ☒ No further action
- ☐ Additional investigation under state program (activity code 2824)
- ☐ Additional investigation under CERCLA (Extended Site Screening)
- ☐ Additional investigation by responsible party
- ☐ Transfer to LUST/UST

**Form Reviewed:**



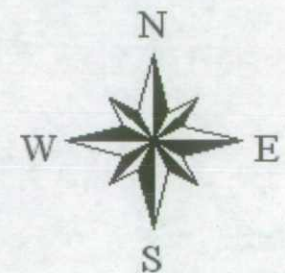
**Date Reviewed:** 12/15/11

# United Suppliers, Pacific Junction



- All\_wells\_public.shp
- roads\_2006\_65.shp - Mills Co.
- ▲ Nonmunicipal PWS
- Municipal wells
- Source Water Protection Area
  - 2-year
  - 5-year
  - 10-year
  - 2500-foot
  - 1-mile
  - primary protection area
  - surface runoff area
  - hydrologic boundary
  - County

0.9 0 0.9 1.8 Miles







KELTING AVE




### Legend

-  Site Well
-  Soil Boring/Monitoring Well
-  Soil Pile
-  Site

### Notes:

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

0 45 90 180 Feet



Lagoon

Fertilizer Tank Farm

SB3MW  
SP4

SB2MW2  
SB1MW1

Site Well

Tank Farm

Load Pad

Dry Storage

Office

195TH ST



Stanley Consultants INC February 2010

Figure 2  
Soil and Groundwater  
Sample Location Map  
United Suppliers  
Pacific Junction, IA





# PRE-CERCLIS SCREENING ASSESSMENT CHECKLIST/DECISION FORM

This checklist can assist the site investigator during the Pre-CERCLIS screening. It will be used to determine whether further steps in the site investigation process are required under CERCLA. Use additional sheets, if necessary.

Checklist Preparer: Hylton Jackson, environmental specialist - IDNR 12/13/2011  
 (Name/Title) (Date)  
502 East 9<sup>th</sup> Street, Des Moines, IA 50319 515 242 5084  
 (Address) (Phone)  
Hylton.Jackson@dnr.iowa.gov  
 (E-mail Address)

Site Name: United Suppliers, Pacific Junction

Previous Names (if any): \_\_\_\_\_

Site Location: 60597 195<sup>th</sup> Street

Pacific Junction IA 51561  
 (City) (ST) (Zip)

Latitude: 41.0079 Longitude: 95.8018

Compare the following checklist. If "yes" is marked, please explain below.

	YES	NO
1. Does the site already appear in CERCLIS?	<input type="checkbox"/>	<input checked="" type="checkbox"/>
2. Is the release from products that are part of the structure of, and result in exposure within, residential buildings or businesses or community structures?	<input type="checkbox"/>	<input checked="" type="checkbox"/>
3. Does the site consist of a release of a naturally occurring substance in its unaltered form, or altered solely through naturally occurring processes or phenomena, from a location where it is naturally found?	<input type="checkbox"/>	<input checked="" type="checkbox"/>
4. Is the release into a public or private drinking water supply due to deterioration of the system through ordinary use?	<input type="checkbox"/>	<input checked="" type="checkbox"/>
5. Is some other program actively involved with the site (i.e., another Federal, State, or Tribal program)?	<input type="checkbox"/>	<input checked="" type="checkbox"/>
6. Are the hazardous substances potentially released at the site regulated under a statutory exclusion (i.e., petroleum, natural gas, natural gas liquids, synthetic gas usable for fuel, normal application of fertilizer, release located in a workplace, naturally occurring, or regulated by the NRC, UMTRCA, or OSHA)?	<input type="checkbox"/>	<input checked="" type="checkbox"/>
7. Are the hazardous substances potentially released at the site excluded by policy considerations (e.g., deferral to RCRA Corrective Action)?	<input type="checkbox"/>	<input checked="" type="checkbox"/>
8. Is there sufficient documentation that clearly demonstrates that there is no potential for a release that could cause adverse environmental or human health impacts (e.g., comprehensive remedial investigation equivalent data showing no release above ARARs, completed removal action, documentation showing that no hazardous substance release have occurred, EPA approved risk assessment completed)?	<input type="checkbox"/>	<input checked="" type="checkbox"/>

Please explain all "yes" answer(s), attach additional sheets if necessary:



- Site Determination:**
- ☐ Enter the site into CERCLIS. Further assessment is recommended (Explain below).
- ☒ The site is not recommended for placement into CERCLIS (Explain below).
- ☐ Further assessment is recommended under PRE-CERCLA (Explain below).

**DECISION/DISCUSSION/RATIONALE:**

The three monitoring wells and the onsite water supply well have been sampled six times over the last two years (beginning January 2010). The nitrite concentrations have never exceeded the Statewide Standard. Nitrate and ammonia concentrations have been declining and only the nitrate concentrations in MW-2 and MW-3 currently exceed the Statewide Standard. The 100-foot deep onsite well has never shown an impact above a Statewide Standard. In the one water sample collected from the retention basin, nitrate, ammonia, and some metals concentrations modestly exceed their respective standards. The ESA does not indicate that any deficiencies in the retention basin were noted during the engineering evaluation. The information presented in the ESA and subsequent monitoring events does not indicate that a significant threat to the environment or human health currently exists. No further assessment or groundwater monitoring will be required at this time. Please note that, especially as this is an active facility, any future site information may warrant further environmental assessment activities.

**Regional EPA Reviewer:**

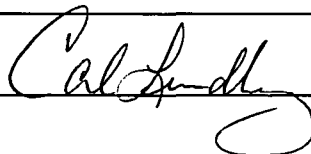
Print Name/Signature

Date

**State Agency/Tribe:**

Print Name/Signature

Date

CAL LUNDBERG  12/15/11



**REGION VII U.S. EPA SUPERFUND**  
**NO DISCOVERY DATE**

**PRE-CERCLIS INITIATION FORM**

NPL Status = **O-NOT A VALID SITE OR INCIDENT**

Site Name: United Suppliers, Pacific Junction

Identified By: \_\_\_\_\_

☐ Removal ☒ Site Assessment ☐ Federal Facilities ☐ States  
☐ Other Federal Agency Check if: ☐ FUD Site

Address: 60597 195<sup>th</sup> Street

County Name: Mills

City, State, Zip: Pacific Junction, IA 51561

State ID (if one exists): \_\_\_\_\_

Congressional District: 5

NPL Status: = : Not a Valid Site or Incident Federal Facility Indicator: ☐ Federal Facility ☒ Not a Federal Facility ☐ Status Undetermined

Section: ☐ C-(STAR) SPFD Technical Assistance/Re-Use Branch ☒ L-(EFLR) Enfr/Fund Lead RV Branch ☐ F-(FFSE) Federal Facilities/Special Emphasis Branch  
☐ M-(MOKS) MO/KS remedial Branch ☐ I-(IANE) IA/NE Remedial Branch ☐ O-(ER&R) Emergency Response & RV Branch

List Site Alias Name (s): \_\_\_\_\_

Directions to Site: From I 29 west of Pacific Junction, take the Iowa Highway 978 exit, proceed east .1 mi. Turn north on 195<sup>th</sup> Street proceed .4 mi. Arrive at site on east side of road.

Site Description: Agricultural fertilizer formulation and storage

USGS Quadrant: Pacific Junction 7.5' USGS Hydro Unit: \_\_\_\_\_  
main

Latitude: 41.0079 Longitude: 95.8018  
(Decimal Degree format) (with release of 3.17 see attached required location data form)

Lat/Long Accuracy: ☒ Seconds ☐ Miles ☐ Feet  
☐ Degrees ☐ Minutes ☐ Kilometers ☐ Meters

Owner ☐ Bank/Loan Company ☐ Municipality  
Operator ☐ County Owned ☐ Other  
Type ☐ District Owned ☒ Private  
☐ Federally-Owned ☐ Mixed Ownership  
☐ Former Federally Owned or Operated ☐ State Owned  
☐ Former Federally Owned or Operated ☐ State Owned  
☐ Government Owned/Contractor Operated ☐ Trustee, Federal  
☐ Privately Owned/Government Operated ☐ Trustee, State  
☐ Property Defaulted Back to Government ☐ Unknown  
☐ Brownfields/Public

Operational Status: ☒ Active ☐ Inactive ☐ Unknown ☐ Blank  
Native American Interest: ☐ Yes ☒ No

Non-NPL Status (Choose one):

☒ Not a Valid Site or Incident ☐ Not a Valid Site or Incident: NRC Lead  
☐ Not a Valid Site or Incident: RCRA Lead ☐ Not a Valid Site or Incident: State Lead  
☐ Not a Valid Site or Incident: Tribal Lead

Add Action: OU\_00

PRE-CERCLIS SCREENING: Planned Complete: 12/13/2011

Actual Complete: 12/13/2011

Lead code (choose one)

☐ F-EPA Fund Financed ☐ FF - Federal Facility ☒ S - State, Fund Financed

SCAP Note: \_\_\_\_\_

Add below Action (if No Further Action):

OU\_00 Lead: EP

☐ PRE-CERCLIS ARCHIVE Actual Complete: \_\_\_\_/\_\_\_\_/\_\_\_\_

SCAP Note: \_\_\_\_\_

Comments: ☐ Site or ☐ Action: \_\_\_\_\_

Signatures: \_\_\_\_\_

States: \_\_\_\_\_ Date: 12/15/11 RPM/OSC/SAM: \_\_\_\_\_

Site Type: (Choose all that apply - for every main category chosen in bold at least one sub- category must be selected; if more than one and sub-category is selected indicate which is primary):

- Primary Designation: \_\_\_\_\_
- ☐ **MP-Manufacturing/Processing/Maintenance** - Applicable sub-categories:
- ☐ CA-Chemicals and allied products
  - ☐ CG-Coal gasification
  - ☐ CP-Coke production
  - ☐ EP-Electric power generation and distribution.
  - ☐ FT-Fabrics/textiles
  - ☐ EE-Electronic/electrical equipment
  - ☐ LW-Lumber and wood products/pulp and paper
  - ☐ WP-Lumber and wood products/wood preserving/preserving/treatment
  - ☐ MF-Metal fabrication/finishing/coating and allied industries
  - ☐ OR-Oil and gas refining
  - ☐ OP-Ordnance production
  - ☐ PR-Plastics and rubber products
  - ☐ PM-Primary metals/mineral processing
  - ☐ RA-Radioactive products
  - ☐ TA-Tanneries ☐ OT-Other-Description(needed): \_\_\_\_\_
  - ☐ TS-Trucks/ships/trains/aircraft and related components
- ☐ **MI-Mining** - Applicable sub-categories
- ☐ CO-Coal ☐ ME-Metals ☐ NM-Non-metal minerals
  - ☐ OG-Oil and Gas ☐ OT-Other-Description(needed): \_\_\_\_\_
- ☐ **WM-Waste Management** - Applicable sub-categories
- ☐ CL-Co-disposal landfill (municipal and industrial)
  - ☐ ID-Illegal disposal/open dump
  - ☐ IF-Industrial waste facility (non-generator)
  - ☐ MD-Mine tailings disposal ☐ OT-Other-Desc.(needed): \_\_\_\_\_
  - ☐ ML-Municipal solid waste landfill
  - ☐ RW-Radioactive waste treatment, storage, disposal (non-generator)
- ☒ **OT-Other** - Applicable sub-categories
- ☒ AG-Agricultural (e/g., grain elevator)
  - ☐ CS-Contaminated sediment site with no identifiable source
  - ☐ DC-Dust control ☐ OT-Other-Desc (needed): \_\_\_\_\_
  - ☐ GP-Ground water plume site with no identifiable source
  - ☐ MO-Military/Other Ordinance
  - ☐ PS-Product Storage/distribution
  - ☐ RD-Research,development,and testing facility
  - ☐ RC-Retail/commercial
  - ☐ SE-Spill or other one-time event
  - ☐ TP-Transportation (e.g., railroad yards, airport, barge docking, site)
  - ☐ TW-Treatment works/septic tanks/other sewage treatment
- ☐ **RE-Recycling** - Applicable sub-categories
- ☐ AT-Automobiles/tires ☐ DT-Drums/tanks ☐ WO-Waste/used
  - ☐ BS-Batteries/scrap metals/secondary smelting/precious metal recovery
  - ☐ CC-Chemicals/chemical waste (e.g., solvent recovery)
  - ☐ OT-Other-Description(needed): \_\_\_\_\_



**REGION VII**  
**U.S. ENVIRONMENTAL PROTECTION AGENCY**

ENFORCEMENT SENSITIVE INFORMATION  
FOR INTERNAL USE ONLY

**LOCATION FORM** - (Required information highlighted in red)

SITE NAME: United Suppliers, Pacific Junction

EPA ID: \_\_\_\_\_

Latitude: 41.0079 Longitude: 95.8018  
(Decimal Degree format)

Measurement Sequence: \_\_\_\_\_

(See Comment A)

Lat/Long Source: ☐ Contractor  
☐ Dun & Bradstreet  
☐ EPA Region 7  
☐ Geograph  
☐ Other Federal Agency  
☐ Regulated Entity  
☐ State

☐ EPA Headquarters  
☐ Epic  
☐ Other  
☒ Private  
☐ SNAP  
☐ Tribe  
☐ Unknown

☐ (Blank)

Designate Lat/Long: ☒ Primary ☐ NPL Coordinate

Collection Method: ☐ Address Matching - House Number ☐ Address Matching - Block Face ☐ Address Matching - Street Centerline  
☐ Address Matching - Nearest Intersection ☐ Address Matching - Primary Name ☐ Address Matching - Digitized  
☐ Address Matching - Other ☐ Census Block - 1990 - Centroid ☐ Census Block/Group 1990-Centroid  
☐ Census Block/Tract - 1990 - Centroid ☐ Classical Surveying Techniques ☐ Census - Other  
☐ GPS Carrier Phase Static Relative Position ☐ GPS Carrier Phase Kinematic Relative Position ☐ GPS, with Canadian Active Control System  
☐ GPS Code (Pseudo Range) Differential ☐ GPS Code (Pseudo Range) Precise Position ☐ GPS Code (Pseudo Range) Standard Position (SA-Off)  
☐ GPS Code (Pseudo Range) Standard Position Service SA-On ☐ GPS-Unspecified ☐ Interpolation-Digital Map Source (TIGER)  
☒ Interpolation-Map ☐ Interpolation-MSS ☐ Interpolation-Photo ☐ Interpolation - Satellite ☐ Interpolation - SPOT  
☐ Interpolation-TM ☐ Interpolation - Other ☐ LORAN C ☐ Public Land Survey-Eighth Section ☐ Public Land Survey-Footing  
☐ Public Land Survey-Quarter Section ☐ Public Land Survey-Section ☐ Public Land Survey-Sixteenth Section  
☐ ZIP+2 Centroid ☐ ZIP+4 Centroid ☐ ZIP Code - Centroid ☐ Unknown

Reference Point: ☐ Administrative Building ☐ Air Monitoring Station ☐ Air Release Stack ☐ Air Release Vent  
☐ Atmos. Emissions Trtmt Unit ☐ Boundary Point ☐ Building Entrance ☒ Facility/Centroid Cent ☐ Facility/Station Bldg Entrance  
☐ Intake Point ☐ Lagoon or Settling Pond ☐ Liquid Waste Treatment Unit ☐ Loading Area Centroid ☐ Loading Facility  
☐ Monitoring Point ☐ NE Corner of Land Parcel ☐ NW Corner of Land Parcel ☐ Other ☐ Plant Entrance (Freight)  
☐ Plant Entrance (General) ☐ Plant Entrance (Personnel) ☐ Process Unit Area Centroid ☐ Process Unit ☐ SE Corner of Land Parcel  
☐ Solid Waste Storage Area ☐ Solid Waste Trtmt/Disp. Unit ☐ Storage Tank ☐ SW Corner of Land Parcel ☐ Unknown  
☐ Water Monitoring Station ☐ Water Release Pipe ☐ Well ☐ Well Protection Area ☐ Release Point ☐ Treatment/Storage Plant

Reference Datum: ☐ NAD27 ☒ NAD83 ☐ Other ☐ Unknown ☐ WGS84

Accuracy Meters +/-: \_\_\_\_\_

☒ Accuracy Unknown

Collection Date: 12/13/2011

Verification Method: ☐ Ground Truth Conducted ☐ Point In Polygon (County) ☐ Blank  
☐ Point in Polygon (Zip) ☐ Proximity to Alternative Facility Coordinate ☒ Not Verified  
☐ Proximity to Polygon Centroid(Other) ☐ Proximity to Polygon Centroid (Zip Code)  
☐ Verified Relative to Map Features (1:100K/Tiger) ☐ Verified Relative to Map Features (1:24K)  
☐ Verified Relative to Map Features (Other) ☐ Verified, Unknown Method  
☐ Proximity to Polygon Centroid (County) ☐ Point in Polygon (Other)

Point/ Line/ Area: ☒ AREA ☐ LINE ☐ POINT ☐ REGION ☐ ROUTE ☐ (BLANK)

Source Map Scale: ☐ 1:10,000 ☐ 1:12,000 ☐ 1:15,840 ☐ 1:20,000 ☐ 1:24,000 ☐ 1:25,000 ☐ 1:50,000  
☐ 1:62,500 ☐ 1:63,360 ☐ 1:100,000 ☐ 1:125,000 ☐ 1:250,000 ☐ 1:500,000 ☐ NONE ☒ UNKNOWN  
☐ OTHER \_\_\_\_\_

COMMENTS: \_\_\_\_\_

Signatures: \_\_\_\_\_

RPM/OSC: \_\_\_\_\_ Date: \_\_\_\_/\_\_\_\_/\_\_\_\_ BRANCH CHIEF: \_\_\_\_\_ Date: \_\_\_\_/\_\_\_\_/\_\_\_\_

A) A sequential number to indicate the order in which points on a line or area are connected. For an area, the maximum point is connected to the first. Required if the feature is polygonal or linear 3 numeric.