CON 12-15
Doc # 25308

Site Name: Cargill Meat Solutions, K Avenue Property, Ottumwa

Pre-Remedial Initial Site Screening (ISS)

Project Manager: John Woodland

Date: September 29, 2011

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 properties are located along K Avenue in Ottumwa, Iowa. Parcel #1 is located at 2 K Avenue, which is located on the south side of the street. The Parcel #2 is located on the north side of the street, to the north, and east of 2 K Avenue. Parcel #1 was once use as a truck washing facility and a livestock building. Parcel #2 was once used for storage of coal, fuel oil and salvaged material. The properties are located north of Cargill Meat Solutions. The size of the properties is unknown, but each property appears to be approximately 4 to 6 acres.

There are four recognized environmental conditions (RECs) associated with the site:
- The unknown contents of 55-gallon drums and the potential for hazardous materials to be located in a debris pile on Parcel #2.
- The unknown origin of fill material located on Parcel #2.
- Historical coal and fuel oil storage on Parcel #2.
- The apparent uncontrolled nature of salvaged material historically stored on Parcel #1.

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.)

The first group of field activities was conducted on May 18, 2011. Four soil borings, EB-1, EB-2, EB-3 and EB-4 were conducted on the site to depths of 18, 17, 18 and 14-feet below ground surface (bgs), respectively. Boring EB-1 was advanced near the debris pile on Parcel #2. Boring EB-2 was advanced near the apparent location of the historical fuel oil tanks on Parcel #2. Boring EB-3 was advanced along the south side of the historical fuel oil tanks location, approximately 40 feet east of the western edge of Parcel #2. Boring EB-4/geotechnical boring B-1 was advanced to the north of the northwest corner of the livestock building on Parcel #1.

A photo-ionization detector (PID) was used for field screening of soil samples for the presence of volatile organic compounds (VOCs). EB-1 was collected 10 to 12 feet bgs, EB-2 was collected 11 to 13 feet bgs, and EB-3 and EB-4were collected 8 to 10 feet bgs.

After soil samples were collected, the borings were converted to temporary monitoring wells and groundwater samples were collected from each well. Groundwater was encountered at 10 to 12 feet bgs.

These soil and groundwater samples were submitted for laboratory analysis of volatile organic compounds (VOCs), semi-volatile organic compounds (SVOCs), total extractable hydrocarbons

(TEH), and Resource Conservation and Recovery Act (RCRA) metals. The groundwater samples submitted for RCRA metals analysis were field filtered.

The second group of field activities was conducted on August 9 and 10, 2011. Seven additional borings, B-1 through B-7 were advanced to further evaluate soil impacts identified in the Limited Site Investigation (LSI) from the first group of field activities. A photo-ionization detector (PID) was used for field screening of soil samples for the presence of VOCs. Soil borings were completed to a depth of 8 to 16 feet.

Upon completion of soil sample collection, four of the soil borings were converted to wells (B-4/MW-1, B-5/MW-2, B-7/MW-3, and B-3/MW-4) to further evaluate groundwater conditions onsite. Groundwater was also collected from an existing monitoring well, EMW-1.

The second set of soil and groundwater samples was also submitted for laboratory analysis of VOCs, SVOCs, TEHs, and RCRA metals. The groundwater samples submitted for RCRA metals analysis were field filtered.

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.

Chemical analysis of soil sample EB-2 collected on May 18, 2011 identified TEH as diesel at a concentration of 14,000 mg/Kg, which is above Iowa Tier 1 Look-up Table; Soil Leaching to Groundwater value of 3,800 mg/Kg. TEH as gasoline and waste oil in soil sample EB-2 were detected in high concentrations, but there are no statewide standards for these contaminants in soil. Those concentrations were 3,420 mg/Kg for TEH as gasoline and 23,000 mg/Kg for TEH as motor oil. Other contaminants detected in soil samples are below statewide standards.

Chemical analysis of groundwater samples collected on May 18, 2011 identified TEH as diesel at a concentration of 89.0 mg/L in groundwater sample EB-2 and 16.8 mg/L in groundwater sample EB-3 collected on May 18, 2011. The Iowa Tier 1 Look-up Table; Groundwater Ingestion Actual value is 1.2 mg/L for TEH as diesel.

From these same samples collected, TEH as motor oil was detected at a concentration of 1.8 mg/L in EB-2 and 0.675 mg/L in groundwater sample EB-3. The Iowa Tier 1 Look-up Table; Groundwater Ingestion Actual value is 0.4 mg/L for TEH as motor oil.

TEH as gasoline in soil samples EB-2 and EB-3 was detected in high concentrations, but there is no statewide standard for TEH as gasoline in groundwater. Detected VOCs are below the IDNR Statewide Standards for a Protected Groundwater Source.

2-Methylnapthalene was detected in groundwater samples EB-2 at a concentration of 0.0597 mg/L and in EB-3 at a concentration of 0.0963 mg/L. These concentrations are above the IDNR Statewide Standards for a Protected Groundwater Source of 0.028 mg/L. Arsenic was detected in groundwater sample EB-2 at a concentration of 0.0377 mg/L, which is above the IDNR Statewide Standards for a Protected Groundwater Source of 0.01 mg/L.

There were no exceedances of statewide standards for VOCs, SVOCs, TEHs, or RCRA metals in soil or groundwater samples collected on August 9 and 10, 2011.

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.

There are no wells located on the Parcel #1. There are two plugged wells located on the Parcel #2. Within a ¼ mile radius beyond the sites, there are sixteen commercial wells between 1100 and 2655 feet deep, one private well that is 90 feet deep (located 800 feet east of Parcel #2), and two plugged wells. There are no shallow wells located near the sites. The closest wells are over 1000 feet deep and several wells are over 2000 feet deep.

Within a ½ mile radius (beyond ¼ mile radius), there are seven plugged wells, one commercial well that is 50 feet deep, and two private wells that are 100 and 115 feet deep.

The Des Moines River is located approximately 1400-feet to the southwest of the property. Bedrock at the site is generally 20 feet bgs.

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.

Chemical analysis of soil sample EB-2 collected at 11 to 13 feet bgs on May 18, 2011 identified TEH as diesel at a concentration above the Iowa Tier 1 Look-up Table; Soil Leaching to Groundwater value and the Soil to Waterline value (10,500 mg/Kg). No other contaminants detected in soil samples exceed statewide standards. Soil sample EB-2 was collected within the water table.

Chemical analysis of groundwater samples EB-2 and EB-3 collected on May 18, 2011 identified TEH as diesel and TEH as waste oil at concentrations above the Tier 1 value, Groundwater Ingestion, actual.

Detected VOCs in groundwater are below the IDNR Statewide Standards for a Protected Groundwater Source. A SVOC, 2-Methylnapthalene was detected in groundwater samples EB-2 and EB-3 collected on May 18, 2011 at concentrations above the IDNR Statewide Standard for a Protected Groundwater Source, but below the IDNR Statewide Standard for a Non-Protected Groundwater Source.

Arsenic was detected in groundwater sample EB-2 collected on May 18, 2011 at a concentration above the IDNR Statewide Standard for a Protected Groundwater Source, but below the IDNR Statewide Standard for a Non-Protected Groundwater Source.

Analytical results of soils samples appear to indicate that impacted soils are located in the general vicinity of the former aboveground storage tanks located on Parcel #2.

Lateral movement of petroleum hydrocarbon contaminants, i.e. 2-Methylnapthalene will likely follow groundwater flow direction. Based on the relatively low concentrations of petroleum hydrocarbons detected in groundwater sample B-7/MW-3 and the lack of detectable

concentrations in other wells onsite, the contamination appears to be localized in the vicinity of EB-2 and EB-3, located near the former aboveground storage tanks on Parcel #2.

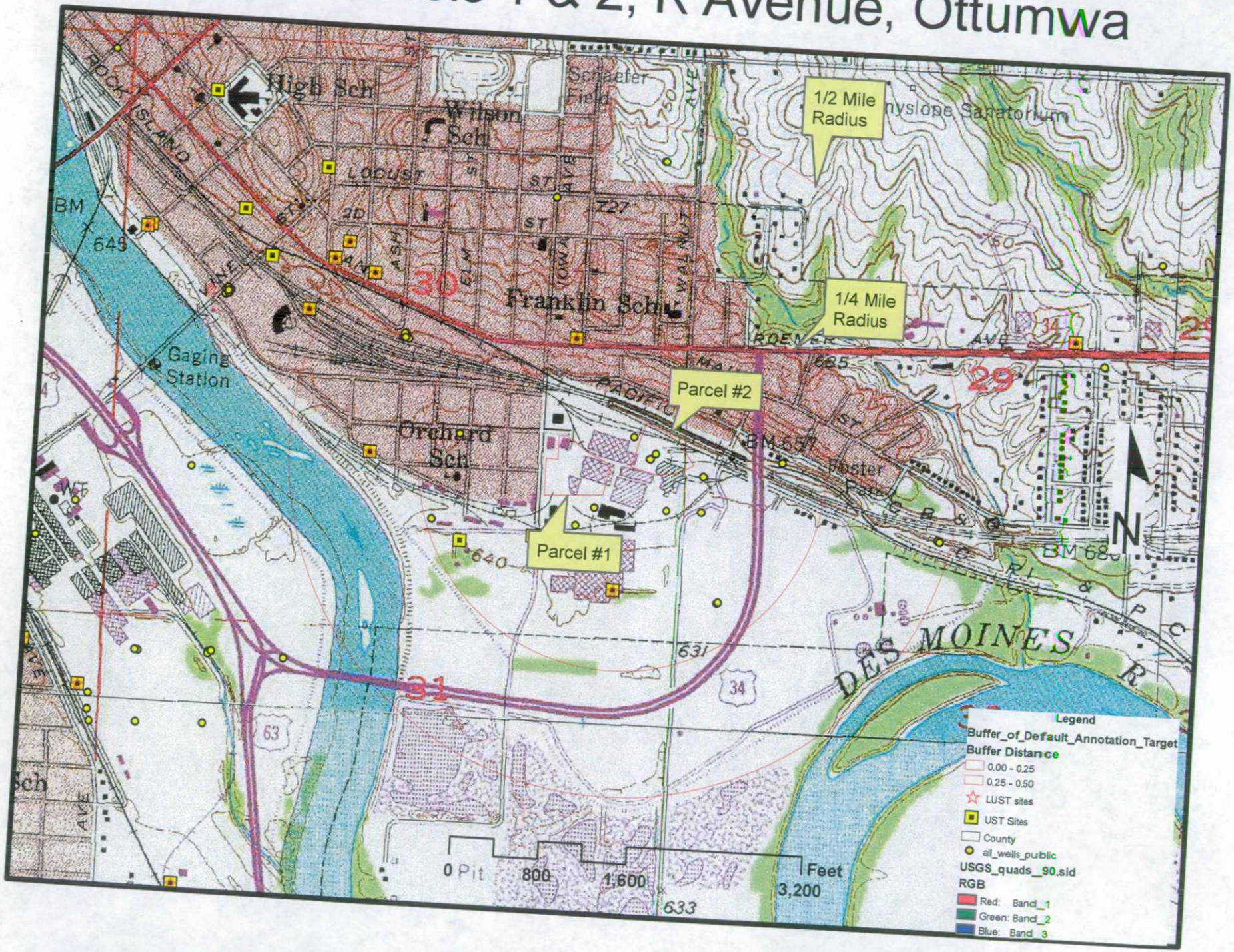
Drinking water wells do not appear to be at risk from the groundwater contaminants.

Site recommended for:

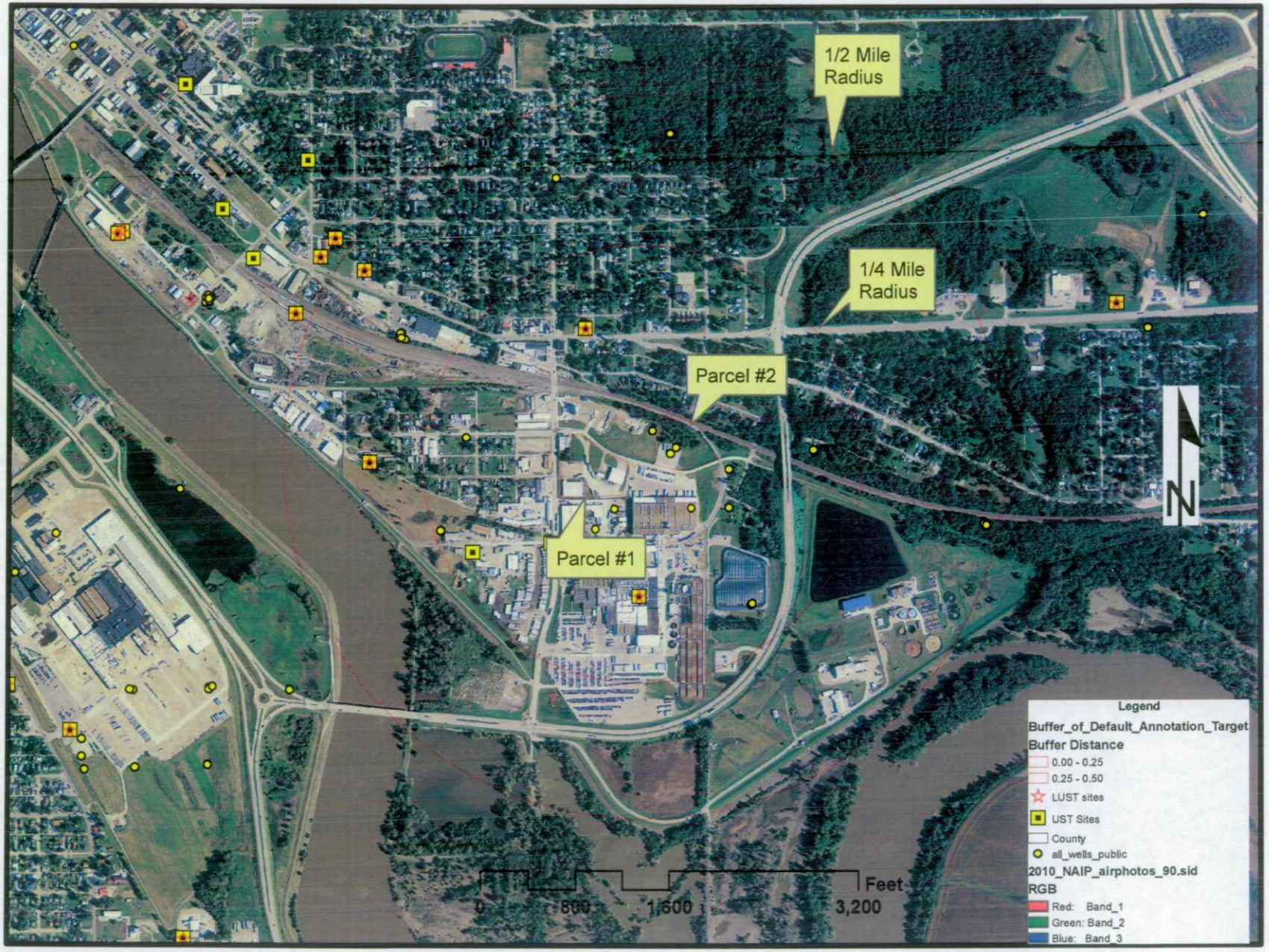
- ☒ No further action
- ☐ Additional investigation under state program (activity code 2824)
- ☐ Additional investigation under CERCLA (Extended Site Screening)
- ☐ Additional investigation by responsible party
- ☐ Transfer to LUST/UST

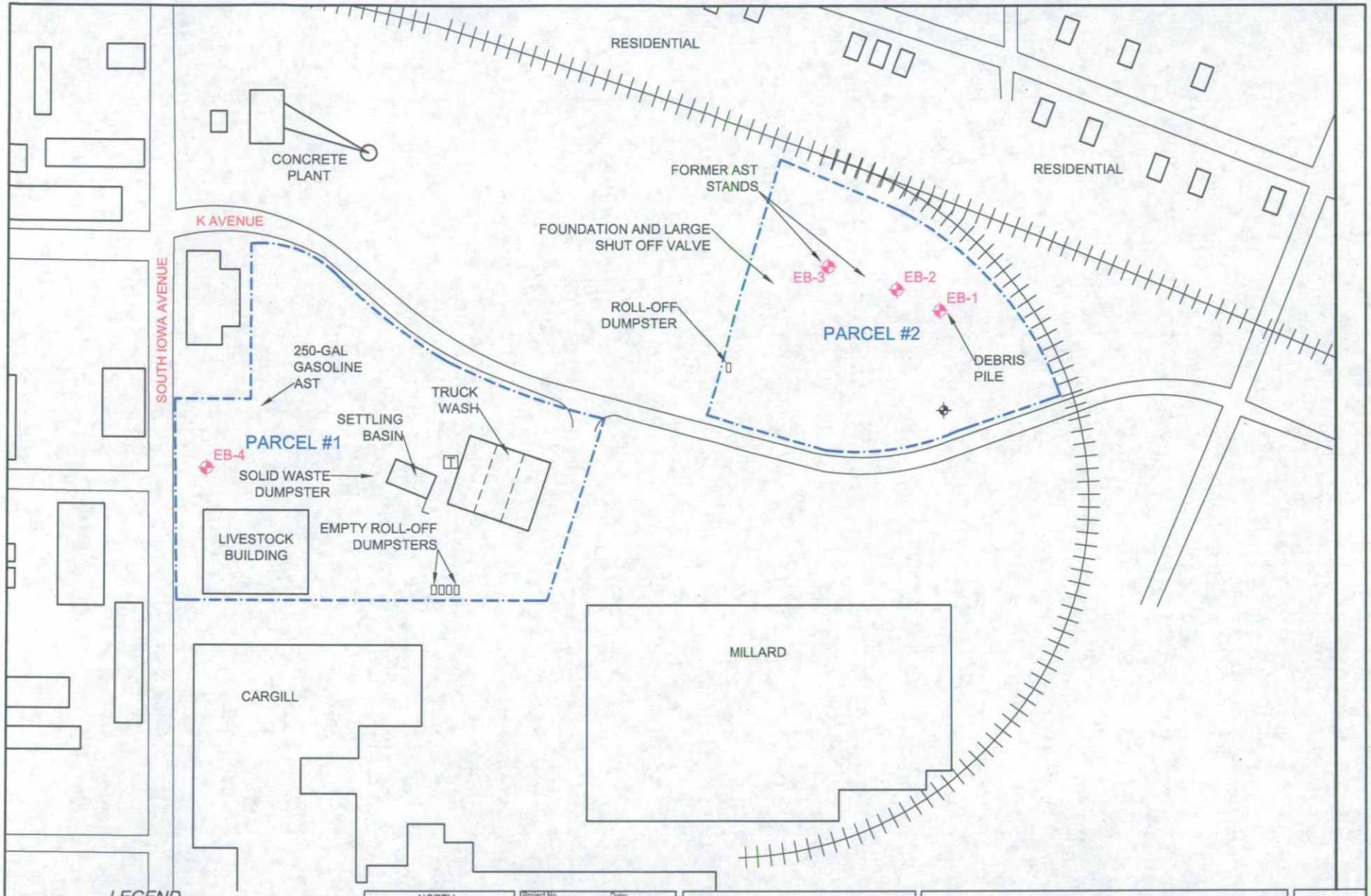
Form Reviewed: _____ **Date Reviewed:** 9/28/11

Cargill Parcels 1 & 2, K Avenue, Ottumwa



Cargill Parcels 1 & 2, K Avenue, Ottumwa





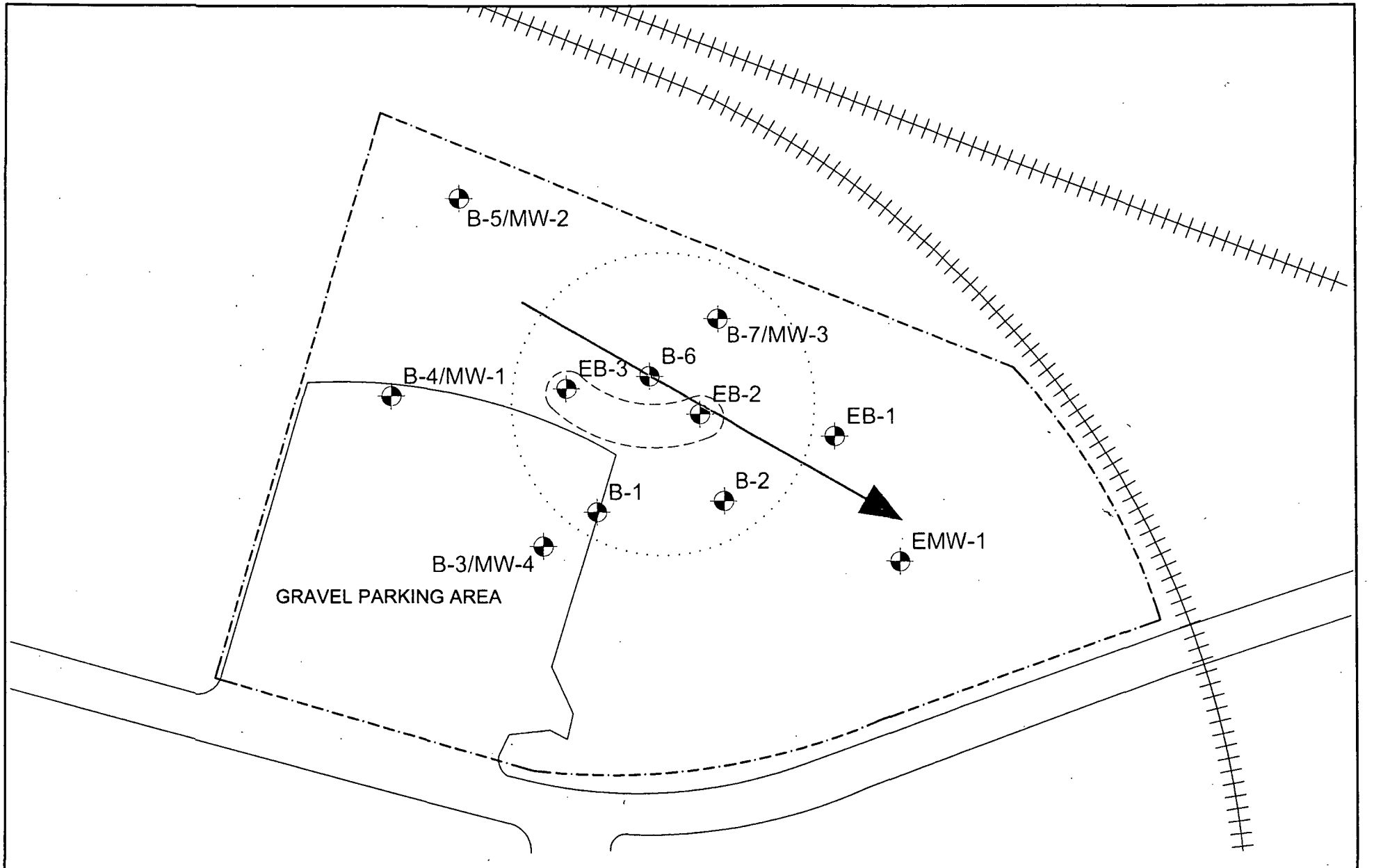
Project No.	06117710
Date:	MAY 2011
Project Mngr:	DMG
Drawn By:	RJC
File Name:	06117710.Figures.dwg
Layout Name:	Fig 2

Terracon
Consulting Engineers and Scientists
2640 12TH STREET SW CEDAR RAPIDS, IOWA 52404
PH. (319) 366-8321 FAX. (319) 366-0032

BORING LOCATION DIAGRAM

LIMITED SITE INVESTIGATION
PARKS LIVESTOCK AND VACANT K AVENUE PARCEL
2 K AVENUE AND VACANT K AVENUE PARCEL
OTTUMWA, WAPELLO COUNTY, IOWA

FIG. No. 2



LEGEND

- APPROXIMATE SITE BOUNDARY
- APPROXIMATE SOURCE AREA
- APPROXIMATE AREA OF IMPACT
- PRESUMED GROUNDWATER FLOW DIRECTION
- EB-1 - APPROXIMATE BORING LOCATION

NORTH

0 75'

APPROXIMATE DRAWING SCALE

Project No.	Date:
06117083, Task A	AUG 2011
Project Mngr:	Drawn By:
DMG	RJC
File Name:	
06117083.Figures.dwg	
Layout Name:	
Delineation Fig 4	

Terracon
Consulting Engineers and Scientists
2640 12TH STREET SW CEDAR RAPIDS, IOWA 52404
PH. (319) 368-8321 FAX. (319) 368-0032

GROUNDWATER FLOW AND APPROXIMATE IMPACTS

SITE DELINEATION
CARGILL MEAT SOLUTIONS
VACANT K AVENUE PARCEL
OTTUMWA, WAPELLO COUNTY, IOWA

FIG. No.

4

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: John Woodland, Environmental Specialist — September 29, 2011
(Name/Title) (Date)

Iowa DNR, Wallace Bldg, Des Moines, IA 50319 — 515.281.4117
(Address) (Phone)

john.woodland@dnr.iowa.gov
(E-mail Address)

Site Name: Cargill Meat Solutions, K Avenue Property, Ottumwa

Previous Names (if any):

Site Location: 2 K Avenue

Ottumwa — IA — 52501
(City) (ST) (Zip)

Latitude: 41.006568 **Longitude:** -92.392090

Compare the following checklist. If "yes" is marked, please explain below.	YES	NO
1. Does the site already appear in CERCLIS?	☐	☒
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?	☐	☒
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?	☐	☒
4. Is the release into a public or private drinking water supply due to deterioration of the system through ordinary use?	☐	☒
5. Is some other program actively involved with the site (i.e., another Federal, State, or Tribal program)?	☐	☒
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)?	☒	☐
7. Are the hazardous substances potentially released at the site excluded by policy considerations (e.g., deferral to RCRA Corrective Action)?	☐	☒
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)?	☐	☒

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

Chemical analysis of soil and groundwater samples identified TEH as diesel at concentrations above statewide standards. TEH as waste oil was also detected in groundwater at concentrations above statewide standards.

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:

Chemical analysis of a soil sample identified TEH as diesel at a concentration above statewide standards. No other contaminants detected in soil samples exceed statewide standards. Chemical analysis of groundwater samples identified TEH as diesel and TEH as waste oil at concentrations above statewide standards.

Detected VOCs in groundwater are below the IDNR Statewide Standards for a Protected Groundwater Source. A SVOC, 2-Methylnapthalene was detected in groundwater samples at concentrations above statewide standards.

Arsenic was detected in groundwater sample EB-2 collected on May 18, 2011 at a concentration above the IDNR Statewide Standard for a Protected Groundwater Source, but below the IDNR Statewide Standard for a Non-Protected Groundwater Source.

Analytical results of soils samples appear to indicate that impacted soils are located in the general vicinity of the former aboveground storage tanks located on Parcel #2.

Lateral movement of petroleum hydrocarbon contaminants, i.e. 2-Methylnapthalene will likely follow groundwater flow direction. Based on the relatively low concentrations of petroleum hydrocarbons detected in groundwater sample B-7/MW-3 and the lack of detectable concentrations in other wells onsite, the contamination appears to be localized in the vicinity of EB-2 and EB-3, located near the former aboveground storage tanks on Parcel #2.

Regional EPA Reviewer:

Print Name/Signature _____ Date _____

State Agency/Tribe:

AL LUNDBERG _____ 9/28/11

Print Name/Signature Date

REGION VII
U.S. ENVIRONMENTAL PROTECTION AGENCY

ENFORCEMENT SENSITIVE INFORMATION
FOR INTERNAL USE ONLY

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

SITE NAME: Cargill Meat Solutions, Ottumwa **EPA ID:** ____

Latitude: 41.006568 **Longitude:** -92.392090 **Measurement Sequence:** ____
(Decimal Decree format) (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 Trtmnt 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 Trtmnt/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:** 05/25/11

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

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.

REGION VII U.S. EPA SUPERFUND
NO DISCOVERY DATE

PRE-CERCLIS INITIATION FORM
NPL Status = O-NOT A VALID SITE OR INCIDENT

Site Name: Cargill Meat Solutions, Ottumwa **Identified By:** ☐ Removal ☒ Site Assessment ☐ Federal Facilities ☐ States ☐ Other Federal Agency Check if: ☐ FUD Site

Address: 2 K Avenue **County Name:** Wapello

City, State, Zip: Ottumwa, Iowa 52501 State ID (if one exists): ____ Congressional District: 2

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: Travel on IA-163 E. Continue onto US-63 S. Turn right onto Eddyville Rd. Continue onto 2nd St W. Turn right onto W Main St. Turn right onto S Iowa Ave. Take the 3rd left onto K Ave .

Site Description: The properties were once used as a truck washing facility, a livestock building, and for storage of coal, fuel oil and salvaged material.

USGS Quadrant: ____ USGS Hydro Unit: ____

Latitude: 41.006568 **Longitude:** -92.392090
(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 Operator Type
- ☐ Bank/Loan Company
- ☐ County Owned
- ☐ District Owned
- ☐ Federally-Owned
- ☐ Former Federally Owned or Operated
- ☐ Former Federally Owned or Operated
- ☐ Government Owned/Contractor Operated
- ☐ Privately Owned/Government Operated
- ☐ Property Defaulted Back to Government
- ☐ Brownfields/Public
- ☐ Municipality
- ☐ Other
- ☒ Private
- ☐ Mixed Ownership
- ☐ State Owned
- ☐ State Owned
- ☐ Trustee, Federal
- ☐ Trustee, State
- ☐ Unknown

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: RCRA Lead
☐ Not a Valid Site or Incident: NRC 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:** ____/____/____

Actual Complete: ____/____/____

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: 9/28/11 RPM/OSC/SAM: _____ Date __/__/__

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 main 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):Truck parking area
- ☐ 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):____

Updated by The Newberry Group/Last Update: 01/08/2008

(NOTE: Data analysts will send form to records center after data entry and QA.)

Updated by Systems Research Group 03MAR06