South Waterloo Business Park

SE Quadrant of U.S. Hwy 20 and Ansborough Avenue

Waterloo, Black Hawk County, IA

October 27, 2015

Terracon Project No. 13157737



Prepared for: City of Waterloo IA Waterloo, Iowa

Prepared by:

Terracon Consultants, Inc. Cedar Falls, Iowa

terracon.com



Environmental Facilities Geotechnical Materials

October 27, 2015



City of Waterloo IA 715 Mulberry St Waterloo, IA 50703

Attn: Mr. Noel Anderson

P: (319) 291-4366

E: Noel.Anderson@waterloo-ia.org

Re: Phase I Environmental Site Assessment

South Waterloo Business Park

SE Quadrant of U.S. Hwy 20 and Ansborough Avenue

Waterloo, Black Hawk County, Iowa Terracon Project No. 13157737

Dear Mr. Anderson:

Terracon Consultants, Inc. (Terracon) is pleased to submit the enclosed Phase I Environmental Site Assessment (ESA) report for the above-referenced site. This assessment was performed in accordance with Terracon Proposal No. P13150395 dated October 21, 2015.

We appreciate the opportunity to be of service to you on this project. In addition to Phase I services, our professionals provide geotechnical, environmental, construction materials, and facilities services on a wide variety of projects locally, regionally and nationally. For more detailed information on all of Terracon's services please visit our website at www.terracon.com. If there are any questions regarding this report or if we may be of further assistance, please do not hesitate to contact us.

Sincerely,

Terracon Consultants, Inc.

Dave C. Cleary, REM

Environmental Department Manager

Dennis R. Sensenbrenner, PG

Senior Associate

Attachments

Terracon Consultants Inc. 3105 Capital Way Ste. 5 Cedar Falls, IA 50613

P 319-277-4016 F 319-277-4320 terracon.com

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EXECUTIVE SUMMARY

This Phase I Environmental Site Assessment (ESA) was performed in accordance with Terracon Proposal No. P13150395 dated October 21, 2015, and was conducted consistent with the procedures included in ASTM E1527-13, *Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process.* The ESA was conducted under the supervision or responsible charge of Mr. Dave C. Cleary, REM, Environmental Professional. Mr. Cleary performed the site reconnaissance on October 22, 2015.

Findings

A summary of findings is provided below. It should be recognized that details were not included or fully developed in this section, and the report must be read in its entirety for a comprehensive understanding of the items contained herein.

Site Description and Use

The site consists of an approximate 181.7-acre tract of structurally undeveloped harvested agricultural soybean field located at the southeast quadrant of U.S. Highway 20 and Ansborough Avenue in Section 9, Township 88N, Range 13W in Waterloo, Black Hawk County, Iowa.

Historical Information

Based on review of the historical information, the site has been used for agricultural row crops since at least the 1930's. Interview information suggests that the site has never been developed with any type of structure. The historical use of the site property does not represent a REC.

Records Review

Selected federal and state environmental regulatory databases as well as responses from state and local regulatory agencies were reviewed. The site was not identified in the regulatory databases. Based on regulatory databases and inquiry results from the local agencies, RECs were not identified in connection with the site at this time.

Site Reconnaissance

Based on site reconnaissance, RECs were not identified associated with the current site operations.

Adjoining Properties

The north adjoining properties consists of a farmstead, residential dwellings and an agricultural field planted in corn. The east adjoining property consists of a structurally undeveloped agricultural land with a drainage way and a potential wetland area. The south adjoining property consists of a structurally undeveloped agricultural land area and a MidAmerican Electrical

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Substation. A radio communication tower, farmstead, a residences adjoin the site to the west followed by Ansborough Avenue. Several residences and agricultural field and farmstead are located across Ansborough Avenue. Indications of RECs were not observed with the adjoining properties.

Additional Services

Per the agreed scope of services specified in the proposal, additional services as outlined in Section 13.0 (Non-Scope Considerations) of ASTM E 1527-13 were not conducted.

Opinions and Conclusions

We have performed a Phase I ESA consistent with the procedures included in ASTM Practice E 1527-13 at SE Quadrant of U.S. Hwy 20 and Ansborough Avenue, Waterloo, Black Hawk County, Iowa, the site. Recognized Environmental Conditions (RECs) or Controlled RECs (CREC) were not identified in connection with the site.

Significant Data Gaps

No significant data gaps were identified.

Recommendations

Based on the scope of services, limitations, and conclusions of this assessment, Terracon did not identify RECs or CRECs. As such, no additional investigation is warranted at this time.



1.0 INTRODUCTION

1.1 Site Description

Site Name	South Waterloo Business Park	
Site Location/Address	SE Quadrant of U.S. Hwy 20 and Ansborough Avenue, Waterloo, Black Hawk County, Iowa	
Land Area	Approximately 181.7 acres	
Site Improvements	The site is improved with a harvested agricultural soybean field.	

The site location is depicted on Exhibit 1 of Appendix A, which was reproduced from a portion of the USGS 7.5-minute series topographic map. A Site Diagram of the site and adjoining properties is included as Exhibit 2 of Appendix A. Acronyms and terms used in this report are described in Appendix F.

1.2 Scope of Services

This Phase I ESA was performed in accordance with Terracon Proposal No. P13150395 dated October 21, 2015, and was conducted consistent with the procedures included in ASTM E1527-13, Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process. The purpose of this ESA was to assist the client in developing information to identify RECs in connection with the site as reflected by the scope of this report. This purpose was undertaken through user-provided information, a regulatory database review, historical and physical records review, interviews, including local government inquiries, as applicable, and a visual noninvasive reconnaissance of the site and adjoining properties. Limitations, ASTM deviations, and significant data gaps (if identified) are noted in the applicable sections of the report.

1.3 Standard of Care

This ESA was performed in accordance with generally accepted practices of this profession, undertaken in similar studies at the same time and in the same geographical area. We have endeavored to meet this standard of care, but may be limited by conditions encountered during performance, a client-driven scope of work, or inability to review information not received by the report date. Where appropriate, these limitations are discussed in the text of the report, and an evaluation of their significance with respect to our findings has been conducted.

Phase I ESAs, such as the one performed at this site, are of limited scope, are noninvasive, and cannot eliminate the potential that hazardous, toxic, or petroleum substances are present or have been released at the site beyond what is identified by the limited scope of this ESA. In conducting the limited scope of services described herein, certain sources of information and

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public records were not reviewed. It should be recognized that environmental concerns may be documented in public records that were not reviewed. No ESA can wholly eliminate uncertainty regarding the potential for RECs in connection with a property. Performance of this practice is intended to reduce, but not eliminate, uncertainty regarding the potential for RECs. No warranties, express or implied, are intended or made. The limitations herein must be considered when the user of this report formulates opinions as to risks associated with the site or otherwise uses the report for any other purpose. These risks may be further evaluated – but not eliminated – through additional research or assessment. We will, upon request, advise you of additional research or assessment options that may be available and associated costs.

1.4 Additional Scope Limitations, ASTM Deviations and Data Gaps

Based upon the agreed-on scope of services, this ESA did not include subsurface or other invasive assessments, vapor intrusion assessments or indoor air quality assessments (i.e. evaluation of the presence of vapors within a building structure), business environmental risk evaluations, or other services not particularly identified and discussed herein. Credentials of the company (Statement of Qualifications) have not been included in this report but are available upon request. Pertinent documents are referred to in the text of this report, and a separate reference section has not been included. Reasonable attempts were made to obtain information within the scope and time constraints set forth by the client; however, in some instances, information requested is not, or was not, received by the issuance date of the report. Information obtained for this ESA was received from several sources that we believe to be reliable; nonetheless, the authenticity or reliability of these sources cannot and is not warranted hereunder.

An evaluation of the significance of limitations and missing information with respect to our findings has been conducted, and where appropriate, significant data gaps are identified and discussed in the text of the report. However, it should be recognized that an evaluation of significant data gaps is based on the information available at the time of report issuance, and an evaluation of information received after the report issuance date may result in an alteration of our conclusions, recommendations, or opinions. We have no obligation to provide information obtained or discovered by us after the issuance date of the report, or to perform any additional services, regardless of whether the information would affect any conclusions, recommendations, or opinions in the report. This disclaimer specifically applies to any information that has not been provided by the client.

This report represents our service to you as of the report date and constitutes our final document; its text may not be altered after final issuance. Findings in this report are based upon the site's current utilization, information derived from the most recent reconnaissance and from other activities described herein; such information is subject to change. Certain indicators of the presence of hazardous substances or petroleum products may have been latent, inaccessible, unobservable, or not present during the most recent reconnaissance and may subsequently

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become observable (such as after site renovation or development). Further, these services are not to be construed as legal interpretation or advice.

1.5 Reliance

This ESA report is prepared for the exclusive use and reliance of City of Waterloo, Iowa and Iowa Economic Development Authority (IEDA). Use or reliance by any other party is prohibited without the written authorization of City of Waterloo IA and Terracon Consultants, Inc. (Terracon).

Reliance on the ESA by the client and all authorized parties will be subject to the terms, conditions and limitations stated in the proposal, ESA report, and Terracon's Agreement. The limitation of liability defined in the Agreement is the aggregate limit of Terracon's liability to the client and all relying parties.

Continued viability of this report is subject to ASTM E1527-13 Sections 4.6 and 4.8. If the ESA will be used by a different user (third party) than the user for whom the ESA was originally prepared, the third party must also satisfy the user's responsibilities in Section 6 of ASTM E1527-13.

1.6 Client Provided Information

Prior to the site visit, Mr. Don Temyer, client's representative, was asked to provide the following user questionnaire information as described in ASTM E1527-13 Section 6.

Client Questionnaire Responses

Client Questionnaire Item	Client Did Not	Client's Response	
	Respond	Yes	No
Specialized Knowledge or Experience that is material to a REC in connection with the site.			Х
Actual Knowledge of Environmental Liens or Activity Use Limitations (AULs) that may encumber the site.			X
Actual Knowledge of a Lower Purchase Price because contamination is known or believed to be present at the site.			Х
Commonly Known or Reasonably Ascertainable Information that is material to a REC in connection with the site.			Х
Obvious Indicators of Contamination at the site.			Х

Terracon's consideration of the client provided information did not identify RECs. A copy of the questionnaire is included in Appendix C.



2.0 PHYSICAL SETTING

Physical Setting

Physical	Source			
Topography (Refer to Appendix A for an excerpt of the Topographic Map)				
Site Elevation	Approximately 960 feet (NGVD)			
Surface Runoff/ Topographic Gradient	Site grades generally decrease from the west to the east. Based on available 24K Topographic USGS maps of the site, it appears that as much as 35 feet of relief exists across the site.	USGS Topographic Map, Waterloo South, Iowa Quadrangle 1963 Map Revised 1972		
Closest Surface Water	Cedar River, approximately 2.75 miles east of the site.			
	Soil Characteristics			
Soil Type	Dinsdale-Klinger-Maxfield			
Description	Nearly level to moderately sloping, well drained to poorly drained silty soils formed in loess and the underlying glacial till; on uplands.	Black Hawk County, IA USDA, Soil Conservation Services Soil Survey issued December 1978		
	Geology/Hydrogeology			
Formation	Cedar Valley Group			
Description	Cedar Valley Group (Middle-Upper Devonian, middle Givetian-middle Frasnian). Primary lithologies: limestone, fossiliferous, variably argillaceous, part biostromal; dolomite, part fossil-moldic to vuggy, variably argillaceous.	Bedrock Geologic Map of Iowa March 2010 Iowa Geological and Water Survey, Iowa City, Iowa		
Estimated Depth to First Occurrence of Groundwater	According to the soil survey, these soils have seasonally high groundwater depths of about 0 feet in drainage ways and about 4 feet in other areas of the site.	Black Hawk County, IA USDA, Soil Conservation Services Soil Survey issued December 1978		
*Hydrogeologic Gradient Not known - may be inferred to be parallel to topographic gradient (prima to the south-southeast).				

^{*} The groundwater flow direction and the depth to shallow, unconfined groundwater, if present, would likely vary depending upon seasonal variations in rainfall and other hydrogeological features. Without the benefit of on-site groundwater monitoring wells surveyed to a datum, groundwater depth and flow direction beneath the site cannot be directly ascertained.



3.0 HISTORICAL USE INFORMATION

Terracon reviewed the following historical sources to develop a history of the previous uses of the site and surrounding area, in order to help identify past uses for indications of RECs. Copies of selected historical documents are included in Appendix C.

3.1 Historical Topographic Maps, Aerial Photographs, Sanborn Maps

Readily available historical USGS topographic maps, selected historical aerial photographs (at approximately 10 to 15 year intervals) and historical fire insurance maps produced by the Sanborn Map Company were reviewed to evaluate land development and obtain information concerning the history of development on and near the site. Reviewed historical topographic maps, aerial photographs and Sanborn Maps are summarized below.

Historical fire insurance maps produced by the Sanborn Map Company were requested from EDR to evaluate past uses and relevant characteristics of the site and surrounding properties. Based upon inquiries to the above-listed Sanborn provider, Sanborn maps were not available for the site.

- Topographic map: Waterloo South, 1963, photo revised 1972 (1:24,000)
- Aerial photograph: GISU: 1930s, 1950s, 1960s, 1971, 1983, 1994, 2002, 2004, 2005, 2006, 2007, 2009, 2010, 2011, 2013, and 2014

Historical Topographic Maps, Aerial Photographs and Sanborn Maps

Direction	Description		
Site	1930s-2014: Agricultural land with grassed drainage swales and no structures.		
	1930s-1980s: Agricultural land with no structures.		
	1994: Highway 20 is shown followed by agricultural land with no structures.		
	2004-2005: Highway 20 is shown followed by agricultural land and the existing CBE Companies facility.		
North	2006-2007: The Highway 20 / Ansborough Avenue interchange is shown followed by agricultural land and the existing CBE Companies facility.		
	2008: The Highway 20 / Ansborough Avenue interchange is shown followed by agricultural land and the existing CBE Companies facility. The existing Grainger facility appears to be under construction.		
	2009-2014: The Highway 20 / Ansborough Avenue interchange is shown followed by agricultural land and the existing CBE Companies and Grainger facilities.		
East	1930s-2014: Agricultural land with no structures.		
	1930s-2011: Agricultural land with no structures.		
South	2013 and 2014: Agricultural land with the existing MidAmerican Electrical Substation facility.		

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Direction	Description	
West	1930s-1980s: The existing farmstead is shown east of Ansborough Avenue followed by Ansborough Avenue followed by agricultural land with the existing farmsteads/residences. 1994-2014: The existing farmstead and communication facility is shown east of Ansborough Avenue followed by Ansborough Avenue followed by agricultural land with the existing farmsteads/residences.	

3.2 Historical City Directories

Due to the rural and agricultural natured of the site area and surrounding area, Ansborough Avenue located to the west of the site was the only city directory reviewed at approximate five-year intervals from 2013 to 1957. Street listings for the site area were not available prior to 1973. A current street address for the site was not identified.

Historical City Directories

Direction	Description	
	4316 Ansborough Avenue: Ronald Wagner (2003, 1995, 1992, 1988, 1983, 1978 and 1973)	
	4330 Ansborough Avenue: Rodney Anderson (2003); Richard Wagner (1995, 1992, 1988, 1983 and 1978)	
	4342 Ansborough Avenue: Richard Oesterling (2013, 2008, 2003, 1999, 1995, 1992 and 1988); James Blackledge (1983); Everett Silbaugh (1978 and 1973)	
	4404 Ansborough Avenue: Occupant unknown (2013 and 2008); Duane Stoner (2003); T Schafer (1999); BW Contractors (1995); Larry Blickenderfer (1992 and 1988); Arminda Davis (1983, 1978 and 1973)	
West	4432 Ansborough Avenue: Wesley Miller (2013 and 2008)	
Woot	4436 Ansborough Avenue: Occupant unknown (2013); Justin Bakker (2008); Myrna Mayer (2003); Wes Miller (1999); Leonard Truax (1995 and 1992); Kevin Hoey (1988); Mark Miller (1983); Paul Miller (1978 and 1973)	
	4634 Ansborough Avenue: Lee Miller (2013 and 2008); Perry Miller (2003); Lee Miller (1999) Perry Miller (1995, 1992, 1988, 1983, 1978 and 1973)	
	4643 Ansborough Avenue: Occupant unknown (2008, 2003 and 1999); Gina Smith (1995); Julie Alcatt (1988); Steven Dangelser (1983 and 1978) Lydia Miller (1973)	
	4719 Ansborough Avenue: Darren Cutler (2013); Occupant unknown (2008); Dottie Cutler/Radio Communications (2003); Darron Cutler (1999); Rachel Brainard (1995); Ronald Brainard (1988); Donald Kreiener (1983); Vernon Miller (1978 and 1973)	

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3.3 Site Ownership

Based on a review of information obtained from the Black Hawk County assessor's records, the current site owners are the City of Waterloo (eight parcels consisting of a total of 74.07 acres) and L & H Farms, LTD. (four parcels consisting of total of 107.63 acres)

3.4 Title Search

At the direction of the client, a title search was not included as part of the scope of services. Unless notified otherwise, we assume that the client is evaluating this information outside the scope of this report.

3.5 Environmental Liens and Activity and Use Limitations

Environmental lien and activity and use limitation records recorded against the site were not provided by the client. At the direction of the client, performance of a review of these records was not included as part of the scope of services and unless notified otherwise, we assume that the client is evaluating this information outside the scope of this report.

3.6 Interviews Regarding Current and Historical Site Uses

The following individuals were interviewed regarding the current and historical use of the site.

Interviewees

Interviewer	Interviewee/Phone #	Title	Date/Time
Dave Cleary	Blake Haven / 319-296-2255	L & H Farms	October 21, 2105 / 10:30

Mr. Haven indicated that L & H Farms he has farmed the site for approximately thirty years. Mr. Haven indicated that a sanitary sewer line was stubbed into the northeast portion of the site by the City of Waterloo when Highway 20 was constructed. Mr. Haven indicated that the site is also tiled for agricultural drainage. Mr. Haven indicated that to the best of his knowledge the site has consisted of agricultural land with no structures. Mr. Haven was not aware of any pending, threatened or past environmental litigation, proceedings or notices of possible violations of environmental laws or liability or potential environmental concerns in connection with the site.

3.7 Prior Report Review

Previous environmental reports, permits, registrations, and geotechnical reports for the site were not provided by the client to Terracon for review.

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4.0 RECORDS REVIEW

Regulatory database information was provided by EDR, a contract information services company. The purpose of the records review was to identify RECs in connection with the site. Information in this section is subject to the accuracy of the data provided by the information services company and the date at which the information is updated, and the scope herein did not include confirmation of facilities listed as "unmappable" by regulatory databases.

In some of the following subsections, the words up-gradient, cross-gradient and down-gradient refer to the topographic gradient in relation to the site. As stated previously, the groundwater flow direction and the depth to shallow groundwater, if present, would likely vary depending upon seasonal variations in rainfall and the depth to the soil/bedrock interface. Without the benefit of on-site groundwater monitoring wells surveyed to a datum, groundwater depth and flow direction beneath the site cannot be directly ascertained.

4.1 Federal and State/Tribal Databases

Listed below are the facility listings identified on federal and state/tribal databases within the ASTM-required search distances from the approximate site boundaries. Database definition, descriptions, and the database search report are included in Appendix D.

Federal Databases

Database	Description	Distance (miles)	Listings
CERCLIS	Comprehensive Environmental Response, Compensation, & Liability Information System	0.5	0
CERCLIS / NFRAP	Comprehensive Environmental Response, Compensation, & 0.5 0 Liability Information System/No Further Remedial Action Planned		0
ERNS	Emergency Response Notification System	Site	0
IC / EC	Institutional Control/Engineering Control	Site	0
NPL	National Priorities List	1	0
NPL (Delisted)	National Priorities Delisted List	0.5	0
RCRA CORRACTS/ TSD	RCRA Corrective Action Activity	1	0
RCRA Generators	Resource Conservation and Recovery Act	Site and adjoining properties	0
RCRA Non- CORRACTS/ TSD	RCRA Non-Corrective Action Activity	0.5	0



State/Tribal Databases

Database	Description	Distance (miles)	Listings
Brownfields	Brownfields Sites	0.5	0
IC	Institutional Control Sites	Site	0
LUST	Leaking Underground Storage Tanks	0.5	1
SHWS	State Hazardous Waste Site	0.5	0
SWF/LF	Solid Waste Facilities/Landfills	0.5	0
UST	Underground Storage Tanks	Site and adjoining properties	0
VCP	Voluntary Response Program	0.5	0

In addition to the above ASTM-required listings, Terracon reviewed other federal, state, local, and proprietary databases provided by the database firm. A list of the additional reviewed databases is included in the regulatory database report included in Appendix D.

The following table summarizes the site-specific information provided by the database and/or gathered by this office for identified facilities. Facilities are listed in order of proximity to the site. Additional discussion for selected facilities follows the summary table.

Listed Facilities

Facility Name And Location	Estimated Distance / Direction/Gradient	Database Listings	Is a REC, CREC, or HREC to the Site
Casey's General Store #2866 51 E Tower Park Drive	Approximately 2450 feet ENE down-gradient	LUST	No

Casey's General Store #2866 does not appear to represent an REC to the site at this time based upon the distance from the site.

Unmapped facilities are those that do not contain sufficient address or location information to evaluate the facility listing locations relative to the site. The report did not list facilities in the unmapped section.



4.2 Local Agency Inquiries

Agency Contacted/ Contact Method	Response
Black Hawk Health Environmental Department / by e-mail (<u>imcnamee@co.black-hawk.ia.us</u>) on 9/15/15 and 9/21/15	The Black Hawk County Environmental Health Department was contacted by email on October 24, 2015 regarding environmental records or information indicating environmental concerns for the site. Mr. Jon D. McNamee, Division Manager, Enforcement, Surveillance and Preparedness Division, of the Black Hawk County Environmental Health Department responded on 10/26/2015 that their department does not have any records of environmental issues in this historically ag area.
Waterloo Fire Department / by email (<u>steve.jordan@waterloo-ia.org</u>) and (<u>fire.chief@waterloo-ia.org</u>) on 9/15/15 and 9/21/15	The City of Waterloo Fire Department was contacted by email on October 24, 2015 regarding environmental records or information indicating environmental concerns for the site. At the issuance of this report, a response had not been received from the Fire Marshall Steve Jordan and Fire Chief Pat Treloar with the Waterloo Fire Department.
Waterloo Building Department / by email (greg.ahlhelm@waterloo-ia.org) on 9/15/15 and 9/21/15	The City of Waterloo Building Department was contacted by email on October 24, 2015 regarding environmental records or information indicating environmental concerns for the site. At the issuance of this report, a response had not been received from Mr. Greg Ahlhelm, Plans Examiner with the Waterloo Building Department.
lowa Department of Natural Resources / by email Brian.Jergenson@dnr.iowa on 9/15/15 and 9/21/15	The lowa Department of Natural Resources (IDNR) Field Office in Manchester, lowa was contacted by email on October 24, 2015 regarding environmental records or information indicating environmental concerns for the site. Mr. Brian Jergenson, Environmental Specialist, indicated that based on a review of the information available, no environmental concerns were noted for the site.

5.0 SITE RECONNAISSANCE

5.1 General Site Information

Information contained in this section is based on a visual reconnaissance conducted while walking through the site and the accessible interior areas of structures, if any, located on the site. Exhibit 2 in Appendix A is a Site Diagram of the site. Photo documentation of the site at the time of the visual reconnaissance is provided in Appendix B. Credentials of the individuals planning and conducting the site visit are included in Appendix E.

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General Site Information

Site Reconnaissance		
Field Personnel	Dave C. Cleary, REM	
Reconnaissance Date	October 22, 2015	
Weather Conditions	Partly cloudy and 65° Fahrenheit	
Site Contact/Title	None	

5.2 Overview of Current Site Occupants and Operations

The site consists of an approximate 181.7-acre tract of structurally undeveloped harvested agricultural soybean field located at the southeast quadrant of U.S. Highway 20 and Ansborough Avenue in Section 9, Township 88N, Range 13W in Waterloo, Black Hawk County, Iowa.

5.3 Site Observations

The following table summarizes site observations and interviews. Affirmative responses (designated by an "X") are discussed in more detail following the table.

Site Characteristics

Category	Item or Feature	Observed or Identified
	Emergency generators	
	Elevators	
	Air compressors	
	Hydraulic lifts	
	Dry cleaning	
	Photo processing	
Site Operations, Processes, and Equipment	Ventilation hoods and/or incinerators	
	Waste treatment systems and/or water treatment systems	
	Heating and/or cooling systems	
	Paint booths	
	Sub-grade mechanic pits	
	Wash-down areas or carwashes	
	Vehicle repair or maintenance	
	Pesticide/herbicide production or storage	
	Printing operations	
	Metal finishing (e.g., electroplating, chrome plating, galvanizing, etc.)	

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Salvage operations Oil, gas or mineral production Other processes or equipment	
Other processes or equipment	
· ' '	
Aboveground storage tanks	
Chemical or Waste Drums, barrels and/or containers ≥ 5 gallons	
Storage MSDS or SDS	
Underground storage tanks or ancillary UST equipment	
Sumps, cisterns, French drains, catch basins and/or dry wells	
Underground Grease traps	
Chemical or Waste Storage, Drainage Septic tanks and/or leach fields	
or Collection Systems Oil/water separators, clarifiers, sand traps, triple traps, interceptors	
Pipeline markers	
Interior floor drains	
Electrical Transformers and/or capacitors	
PCBs Other equipment	
Stressed vegetation	
Stained soil	
Stained pavement or similar surface	
Leachate and/or waste seeps	
Releases or Trash, debris and/or other waste materials	
Potential Releases	
Construction/demolition debris and/or dumped fill dirt	
Surface water discoloration, odor, sheen, and/or free floating product	
Strong, pungent or noxious odors	
Exterior pipe discharges and/or other effluent discharges	
Surface water bodies	
Other Notable Site Quarries or pits	
Features Wastewater lagoons	
Wells	

None of the site characteristics in the table were observed during the site reconnaissance.



6.0 ADJOINING PROPERTY RECONNAISSANCE

Visual observations of adjoining properties (from site boundaries) are summarized below.

Adjoining Properties

Direction	Description	
North	Highway 20 adjoins the site to the north followed by the Grainger facility, an agricultural field and the CBE Companies facility.	
East	The east adjoining property consists of a structurally undeveloped agricultural land with a drainage way and a potential wetland area.	
South	The south adjoining property consists of a structurally undeveloped agricultural land area and a MidAmerican Electrical Substation.	
West	A radio communication tower, farmstead, a residences adjoin the site to the west followed by Ansborough Avenue. Several residences and agricultural field and farmstead are located across Ansborough Avenue.	

Indications of RECs were not observed with the adjoining properties.

7.0 ADDITIONAL SERVICES

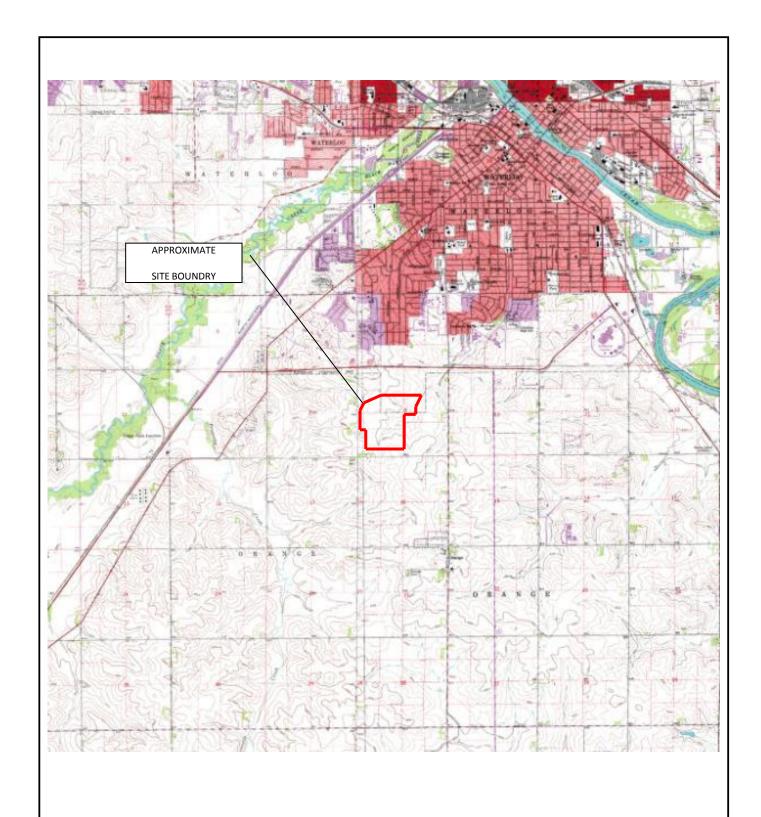
Per the agreed scope of services specified in the proposal, additional services (e.g. asbestos sampling, lead-based paint sampling, wetlands evaluation, lead in drinking water testing, radon testing, vapor encroachment screening, etc.) were not conducted.

8.0 DECLARATION

I, Dave C. Cleary, REM, declare that, to the best of my professional knowledge and belief, I meet the definition of Environmental Professional as defined in Section 312.10 of 40 CFR 312; and I have the specific qualifications based on education, training, and experience to assess a property of the nature, history, and setting of the site. I have developed and performed the All Appropriate Inquiries in conformance with the standards and practices set forth in 40 CFR Part 312.

Dave C. Cleary, REM Environmental Department Manager

APPENDIX A EXHIBIT 1 – TOPOGRAPHIC MAP EXHIBIT 2 – SITE DIAGRAM



USGS 7.5 MINUTE SERIES TOPOGRAPHIC MAP $\frac{\text{STATE of IOWA QUADRANGLE}}{\text{WATERLOO SOUTH}}$

1963

Photorevised 1972

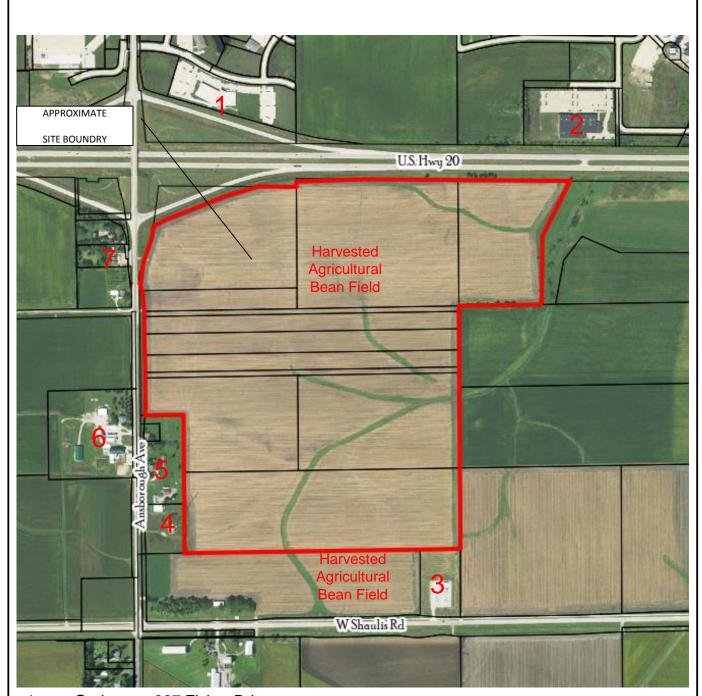
Exhibit

Project Manager:	Project No.
DCC	13157737
Drawn by:	Scale:
DCC	GRAPHIC
Checked by:	File Name:
DCC	
Approved by:	Date:
DCC	10/22/15

Terra Consulting Engineer	
6612 Chancellor Drive, Suite 102	Cedar Falls, Iowa 50613
PH. (319) 277-4016	FAX. (319) 277-4320

TOPOGRAPHIC MAP		
South Waterloo Business Park		
SE Quadrant of U.S. Highway 20 and		
Ansborough Avenue		
Waterloo, Iowa		

1



- 1. Grainger 827 Fisher Drive
- 2. CBE Companies 233 Fisher Drive
- 3. MidAmerican Energy electrical substation 570 West Shaulis Road
- 4. Radio communication tower
- 5. Farmstead / Residential 4719 Ansborough Avenue
- 6. Farmstead 4634 Ansborough Avenue
- 7. Residential 4342 to 4436 Ansborough Avenue



Project Manager: DCC	Project No. 13157737	7F	SITE DIAGRAM	Exhibit
Drawn by:	Scale:	lierracon	South Waterloo Business Park	
Checked by:	File Name:	Consulting Engineers & Scientists	SE Quadrant of U.S. Highway 20 and	121
DCC Approved by:	Date:	6612 Chancellor Drive, Suite 102 Cedar Falls, Iowa 50613	Ansborough Avenue	-
DCC		PH. (319) 277-4016 FAX. (319) 277-4320	Waterloo, Iowa	

APPENDIX B SITE PHOTOGRAPHS

South Waterloo Business Park • Waterloo, Iowa

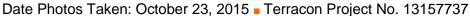








Photo #1 Facing west from near the northwest corner of the site, a view of residences across Ansborough Avenue

Photo #2 Facing northwest from near the northwest corner of the site, a view of the Highway 20/Ansborough interchange





Photo #3 Facing southeast from near the northwest corner of the site, a view of site

Photo #4 Facing north from the approximate center of the north edge of the site, a view of Highway 20

South Waterloo Business Park • Waterloo, Iowa

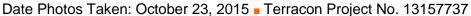








Photo #5 Facing south from the approximate center of the north edge of the site, a view of the site

Photo #6 Facing north from near the northeast corner of the site, a view of Highway 20 followed by CBE Companies





Photo #7 Facing east from near the northeast corner of the site, a view of the site followed by a pasture/drainageway and possible wetland area

Photo #8 Facing southwest from near the northeast corner of the site, a view of the site

South Waterloo Business Park • Waterloo, Iowa

Date Photos Taken: October 23, 2015 Terracon Project No. 13157737







Photo #9 Facing south from near the northeast corner of the site, a view of the site followed by a pasture / drainageway

Photo #10 Facing west, a view of grass buffer area along the east/west fence line on the eastern portion of the site





Photo #11 Facing north, a view of grass buffer area along the east fence line on the eastern portion of the site

Photo #12 A view of the site from eastern edge of the site

South Waterloo Business Park • Waterloo, Iowa

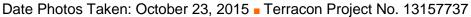








Photo #13 Facing southeast, a view of a rock pile at the base of the trees at the east end of the east/west fence line on the eastern portion of the site

Photo #14 Facing southeast from the east end of the east/west fence line on the eastern portion of the site, a view of a grassed waterway and corn field





Photo #15 Facing south, a view of old fencing materials along the east/west fence line on the eastern portion of the site

Photo #16 Facing west from the eastern edge of the site, a view of an on-site grassed waterway and harvested bean field

South Waterloo Business Park • Waterloo, Iowa

Date Photos Taken: October 23, 2015 Terracon Project No. 13157737







Photo #17 Facing northwest from the eastern edge of the site, a view of an on-site grassed waterway and harvested bean field

Photo #18 Facing east from the eastern edge of the site, a view of an adjoining grassed waterway and harvested corn field





Photo #19 Facing southwestwest from the eastern edge of the site, a view of an on-site grassed waterway and harvested bean field

Photo #20 Facing south, a view of a
MidAmerican Electrical Substation
adjoining the site to the south

South Waterloo Business Park Waterloo, Iowa

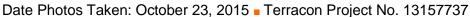








Photo #21 Facing north, a view of the site from the approximate center of the south edge of the site

Photo #22 Facing south, a view of a radio communication tower adjoining the site to the west near the southwest corner of the site

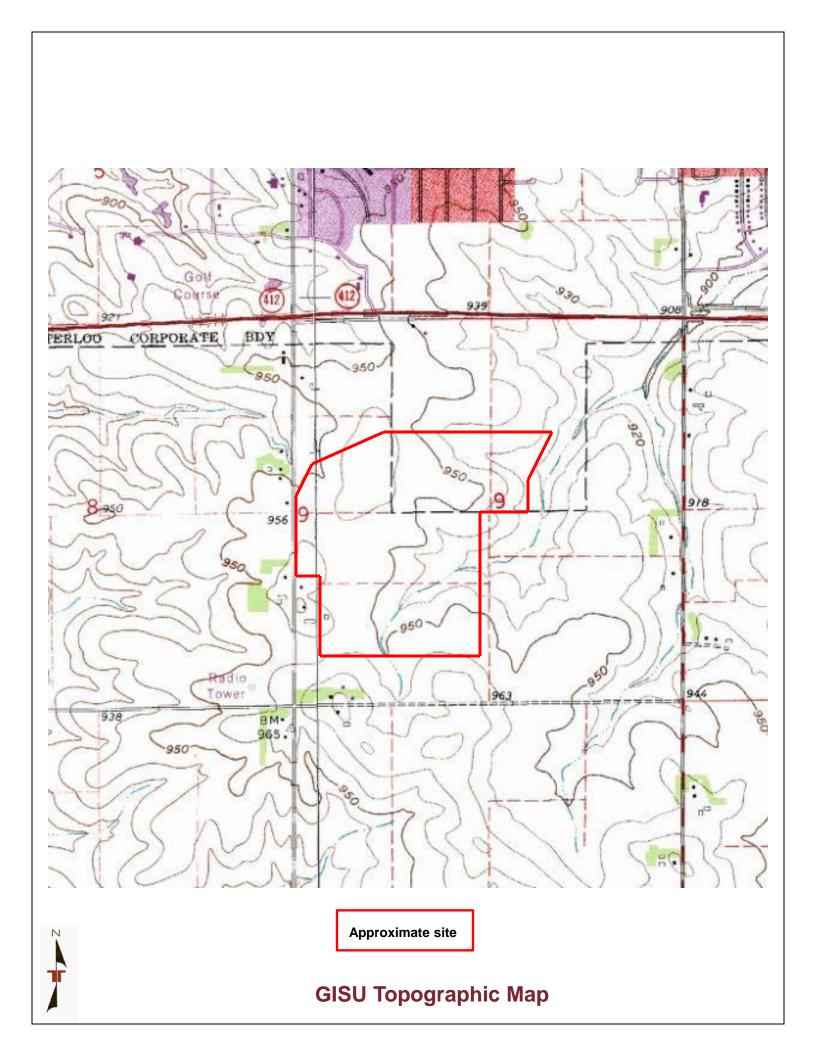


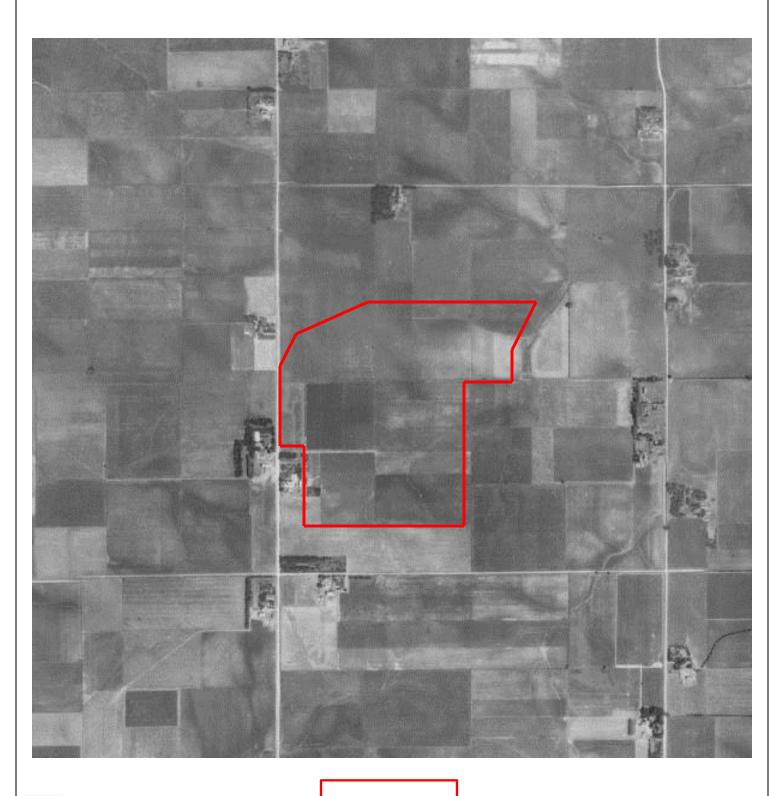


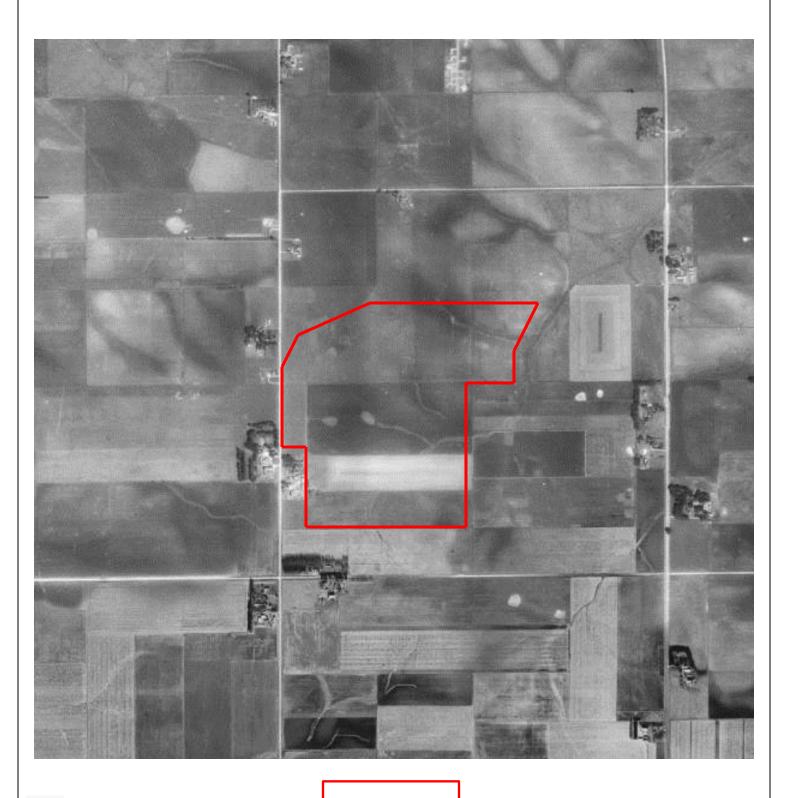
Photo #23 Facing west, a view of a farmstead adjoining the site to the west near the southwest corner of the site

Photo #24 Facing west, a view of a residence adjoining the site to the west

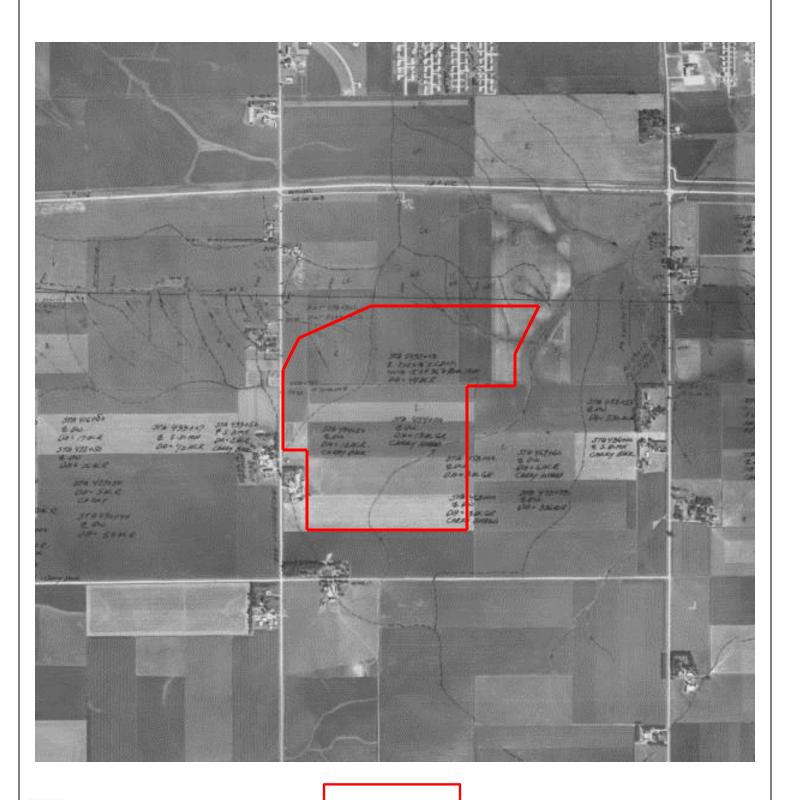
HISTORICAL DOCUMEN	APPENDIX C	R QUESTIONNAIRE



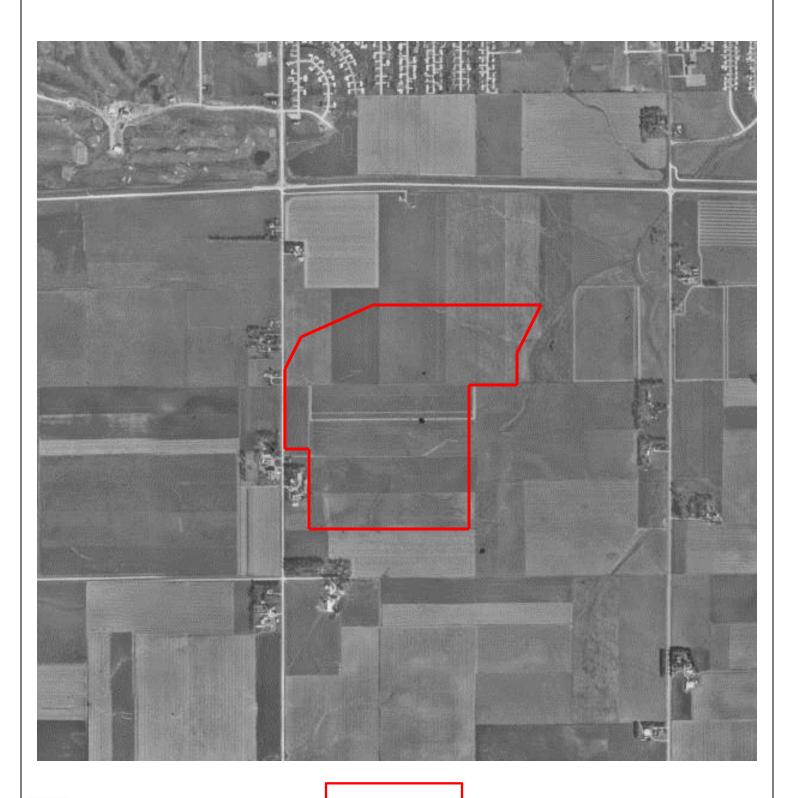


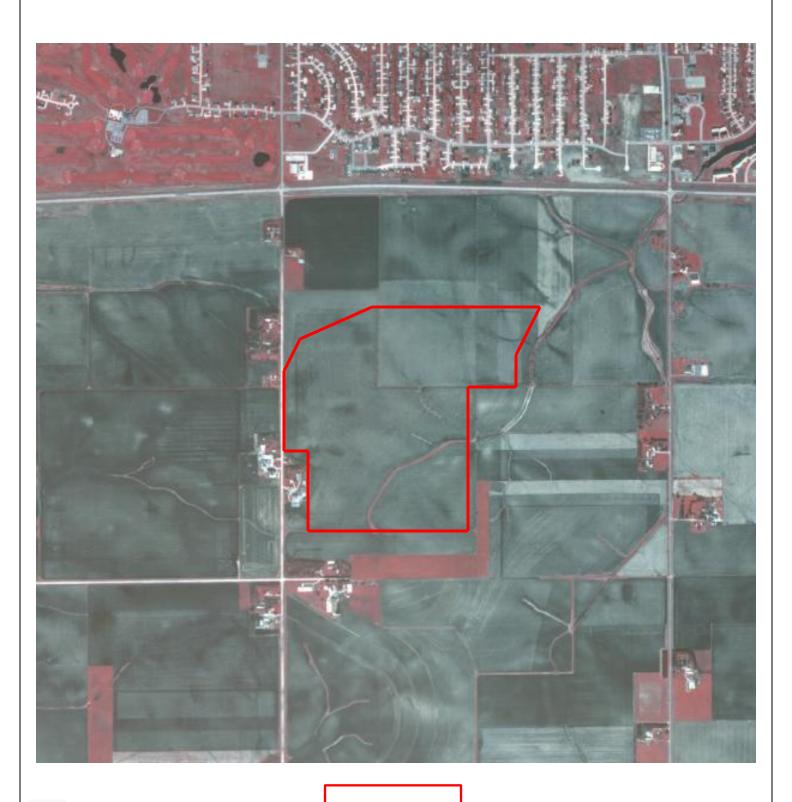
















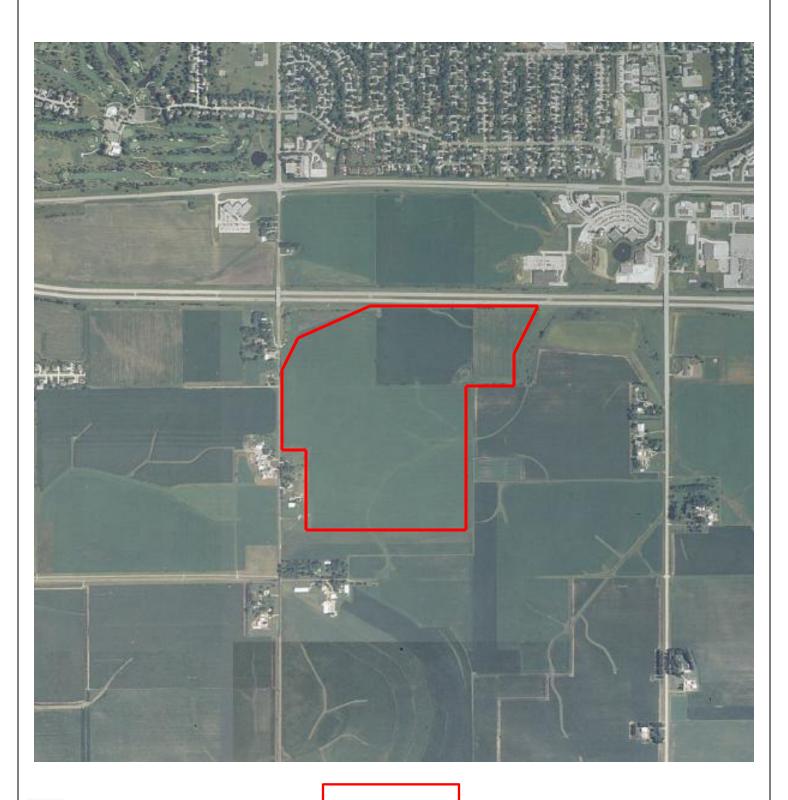




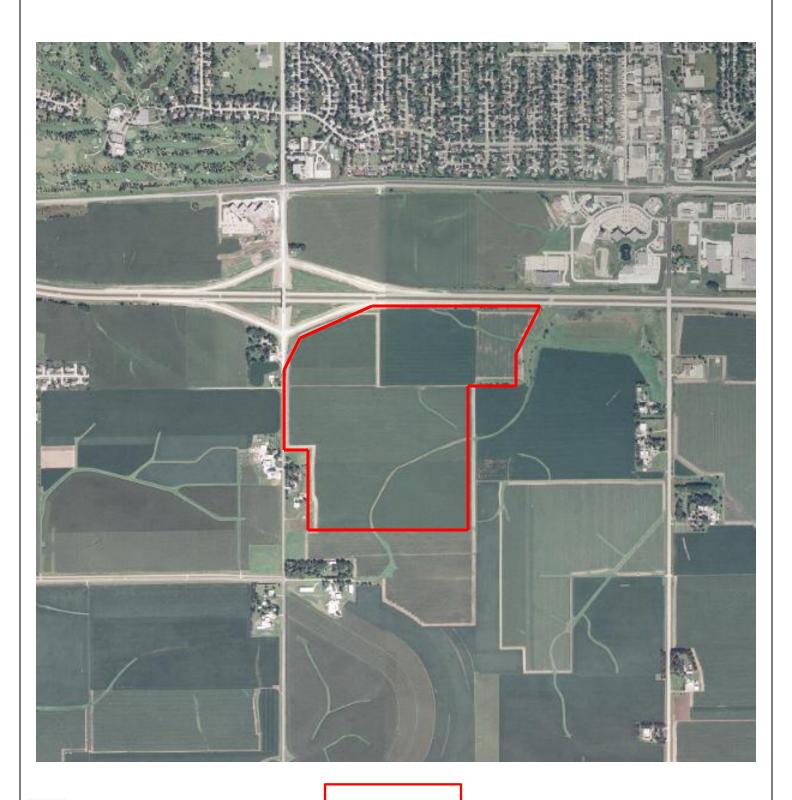


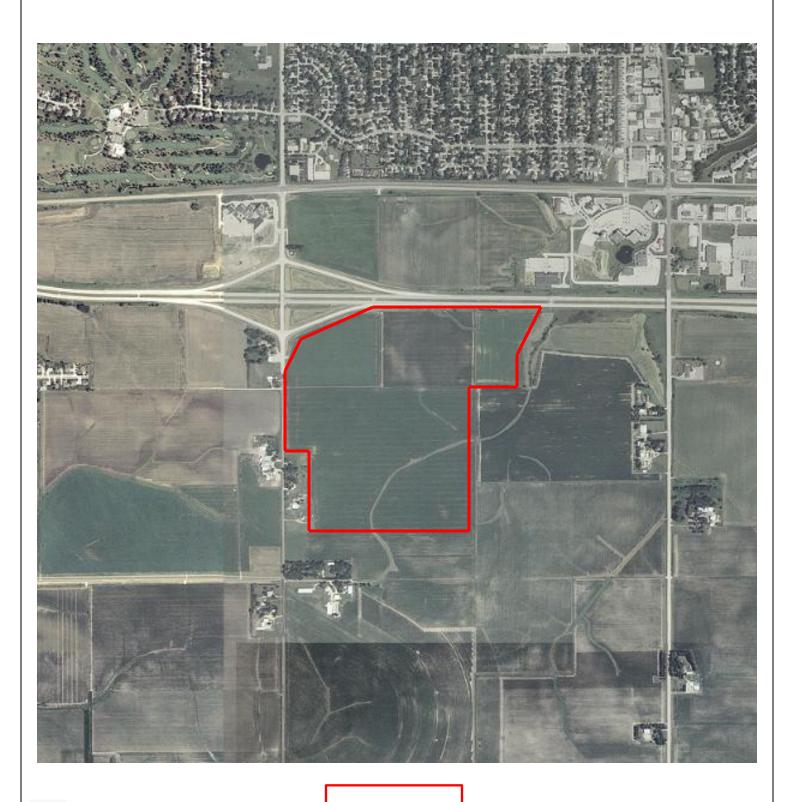


Z **1**

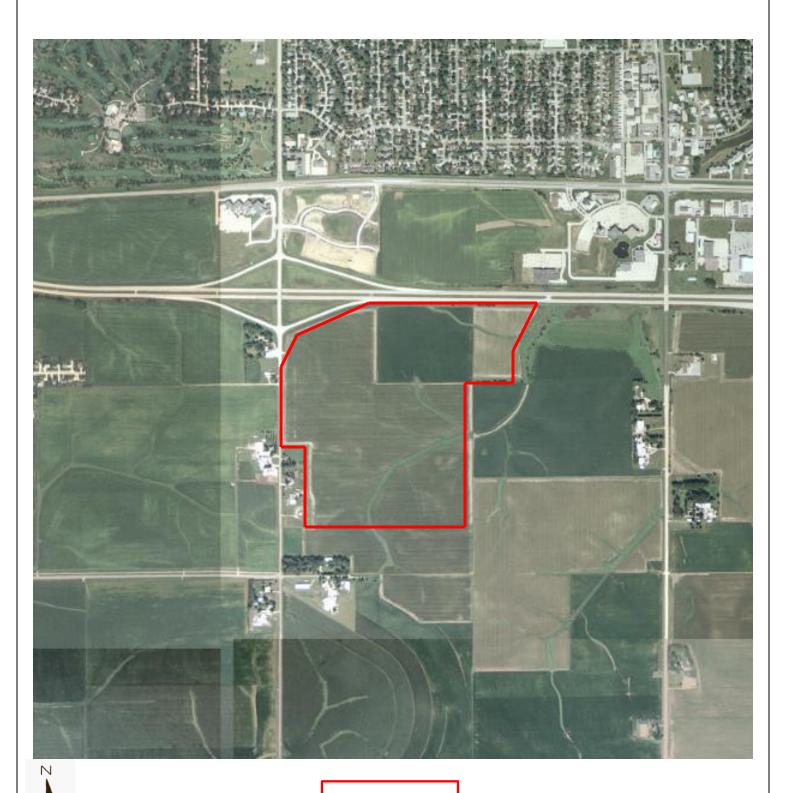












2008 GISU Aerial Photograph



















South Waterloo Business Park

Ansborough Avenue / Highway 20 Waterloo, IA 50701

Inquiry Number: 4443919.3

October 21, 2015

Certified Sanborn® Map Report



Certified Sanborn® Map Report

10/21/15

Site Name: Client Name:

South Waterloo Business Park Ansborough Avenue / Highway

EDR Inquiry # 4443919.3

Waterloo, IA 50701

Terracon,Inc. 6612 Chancellor Dr Cedar Falls, IA 50613

Contact: Dave Cleary



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The Sanborn Library is continually enhanced with newly identified map archives. This report accesses all maps in the collection as of the day this report was generated.

Certified Sanborn Results:

Site Name: South Waterloo Business Park
Address: Ansborough Avenue / Highway 20

City, State, Zip: Waterloo, IA 50701

Cross Street:

P.O. # NA

Project: 13157737

Certification # 14AB-4181-BE91



Sanborn® Library search results Certification # 14AB-4181-BE91

UNMAPPED PROPERTY

This report certifies that the complete holdings of the Sanborn Library, LLC collection have been searched based on client supplied target property information, and fire insurance maps covering the target property were not found.

The Sanborn Library includes more than 1.2 million fire insurance maps from Sanborn, Bromley, Perris & Browne, Hopkins, Barlow and others which track historical property usage in approximately 12,000 American cities and towns. Collections searched:

✓ Library of Congress

✓ University Publications of America

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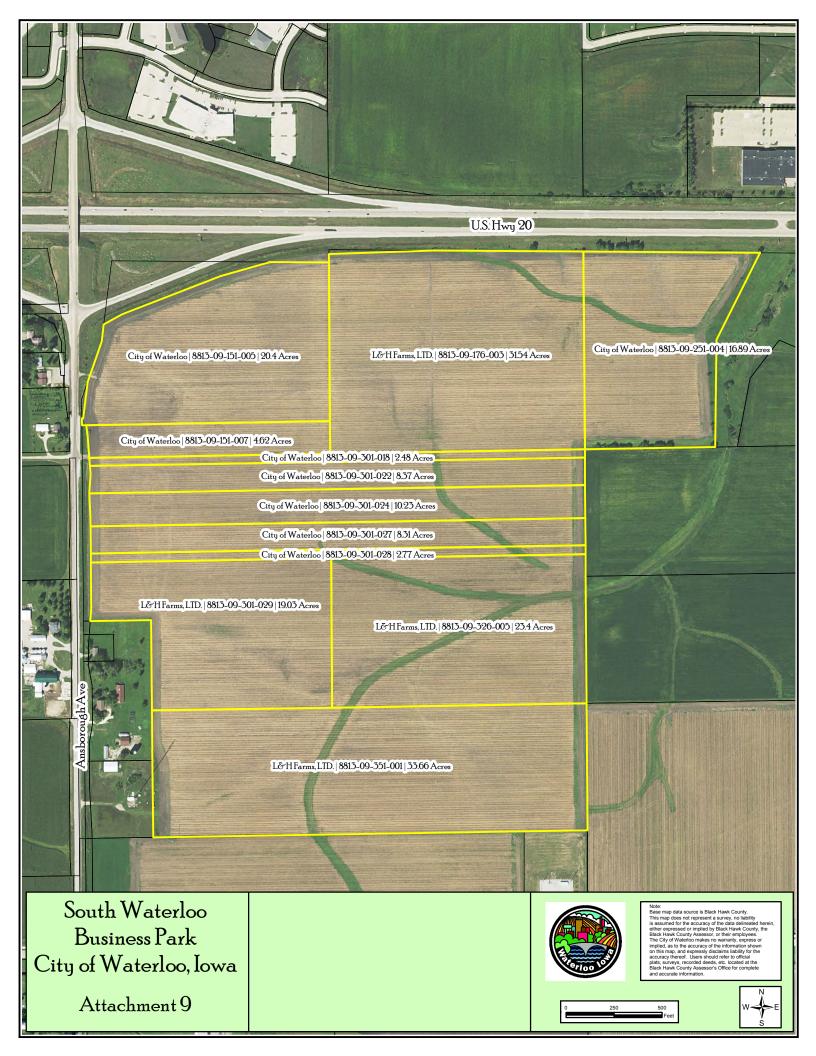
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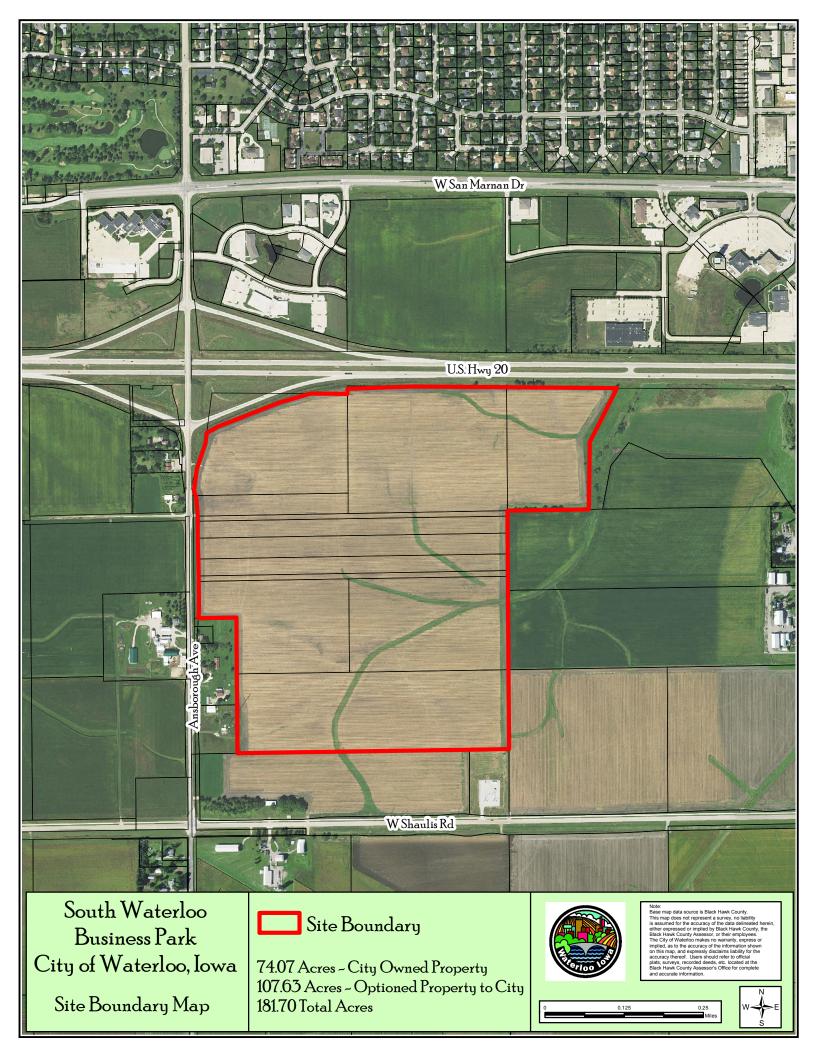
Disclaimer - Copyright and Trademark notice

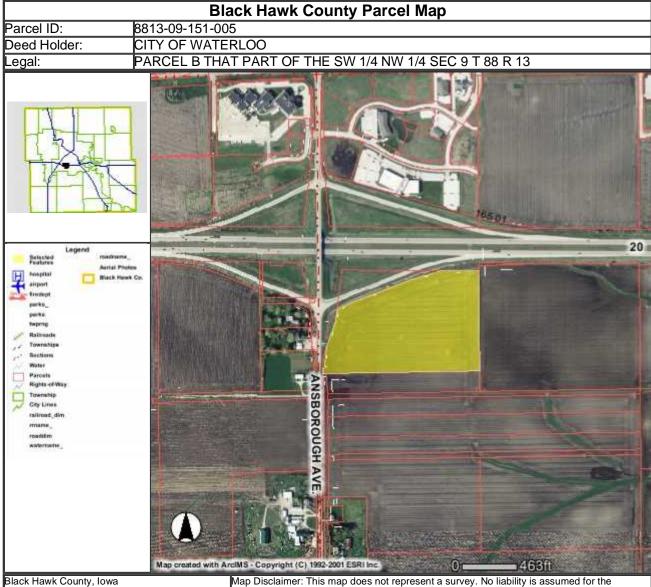
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E-mail: auditor@co.black-hawk.ia.us.org

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BLAC	BLACK HAWK COUNTY REAL ESTATE ASSESSMENT AND TAX INFORMATION										
Parcel ID		Deed Holder		Tax Ma	il to Addre	SS					
8813-0	9-151-005	CITY OF WATERLOO			F WATERL JLBERRY S						
PDF No.	Map Area	Contract Buyer				EPARTMENT					
5	SWTLO-14			WATE	RLOO, IA 50	703-0000					
Property A	ddress	-	Curre	nt Rec	orded Tran	sfer					
00000			Date	Drawn	Date Filed	Recorded Do	cument	Туре			
00000-0000)		3/16/2	2010	5/5/2010	2010 020575		D			

	SALES	BUILDING PERMIT
Date	AmountNUTC / Type	None
3/16/2010	820,000 AGRICULTURAL SALE OF ONE OR MORE PARCELS-SINGLE CONSIDERATION - 09/11 / Deed	

Year			Class							
2015			E							
100%	Land	Multi-Residential Land	D ₁	well	ing	Buildir	g	Total	Acr	es
Value	60,060	0	0			0		60,060	20.4	ļ <u> </u>
Taxable	Land	Multi-Residential Land		TI.	Dwelling		Buildir	ng	Total	
Value	60,060	0		(0		0		60,060)

Year			Class					
2014			E					
100%	Land	Multi-Residential Land	Dwe	lling	Buildir	ıg	Total	Acres
Value	60,060	0	0		0		60,060	20.4
Taxable	Land	Multi-Residential Land		Dwelling	ı	Buildiı	ng	Total
Value	60,060	0	·	0		0		60,060

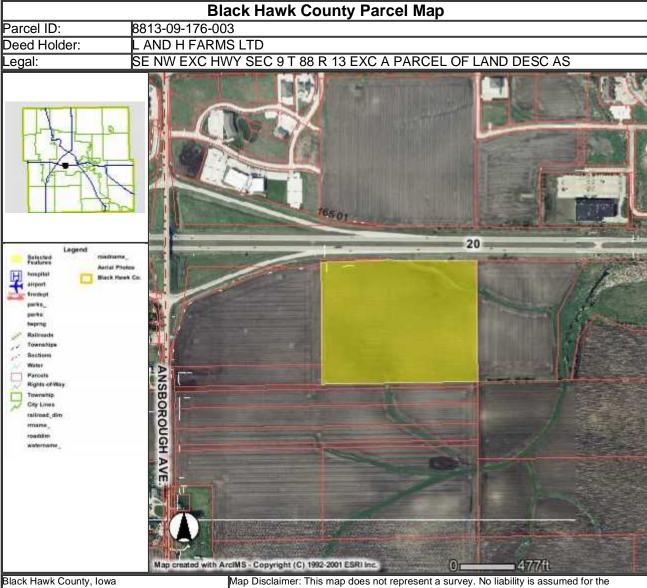
Year			Class					
2013			E					
100%	Land	Multi-Residential Land	Dw	elling	Buildin	g	Total	Acres
Value	60,060	0	0		0		60,060	20.4
Taxable	Land	Multi-Residential Land		Dwelling	3	Buildir	ng	Total
Value	60,060	0		0)		60,060

	TAX IN	FORMATION ASS	ESS	MENT YEAR 2014 PA	YΑ	BLE 20	15/	/2016	
Tax District	941168 - SAN	MARNAN ECON A	GLA	AND TIFAMD1					
	Gross Value	Taxable Value	Mil	litary Exemption	Le	vy Rate		Gross Tax	Net Tax
Corp	0	0	0		41.	41.48607		\$0.00	\$0.00
Nocorp	0	0	0		26.	72612		\$0.00	
	Homestead Credit	Disabled Vetera Credit	n	Property Tax Relief Credit		_		usiness Prop edit	erty Tax
Corp	\$0.00	0.00 \$0.00 \$0.00 \$0.00							
Nocorp				\$0.00					

LEGAL

PARCEL B THAT PART OF THE SW 1/4 NW 1/4 SEC 9 T 88 R 13 DESC AS FOL COM AT THE SW COR OF SAID SW 1/4 NW 1/4 TH ALONG THE W LINE OF SAID SW 1/4 NW 1/4 N 170.1 FT TH N 89 DEG 5 MIN E 33 FT TO THE ELY ROW LINE ANSBOROUGH AV BEING THE PT OF BEG TH ALONG ELY ROW LINE N 36.1 FT TH ALONG SAID ELY ROW LINE N 88 DEG 03 MIN E 7 FT TH ALONG SAID ELY ROW LINE N 7 DEG 13 3/4 MIN E 190 FT TH ALONG SAID ELY ROW LINE N 19 DEG 18 MIN E 224.25 FT TH ALONG SAID ELY ROW LINE N 06 DEG 45 MIN E 86.8 FT TH ALONG THE SELY ROW LINE OF US HWY 20 AKA IOWA HWY 27 N 60 DEG 54 1/2 MIN E 110 FT TH ALONG SAID SELY ROW LINE N 68 DEG 42 MIN E 546.7 FT TH ALONG SAID SELY ROW LINE N 68 DEG 42 MIN E 546.7 FT TH ALONG SAID SELY ROW LINE OF SAID US HWY 20 S 89 DEG 36 3/4 MIN E 306.95 FT E LINE OF SAID SW 1/4 OF NW 1/4 TH ALONG SAID E LINE S 827.25 TH S 89 DEG 05 MIN W 1290.35 FT TO PT OF BEG

Entry Status:		
Date Website La	ast Updated: 10/23/2015	
		_



Black Hawk County, Iowa 316 East 5th Street Waterloo, Iowa 50703-4774 Phone: (319) 833-3002 Fax: (319) 833-3070

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BLA	CK HAWK C	OUNTY REAL ESTAT	E ASSES	SSMENT AND TAX INFORMAT	ION
Parcel ID		Deed Holder		Tax Mail to Address	
8813-	09-176-003	L AND H FARMS LTD		L AND H FARMS LTD 7502 HAMMOND AV	
PDF No.	Map Area	Contract Buyer		WATERLOO, IA 50701-0000	
5	SWTLO-14				
Property .	Address		Current	Recorded Transfer	
00000			Date Dra	awn Date Filed Recorded Docume	nt Type
00000-000	00		2/29/201	12 3/28/2012 2012 017708	D

	SALES	BUILDING PERMIT
Date	AmountNUTC / Type	None
2/29/2012	599,260 AGRICULTURAL SALE OF ONE OR MORE PARCELS-SINGLE CONSIDERATION - 12 / Deed	

Year			Class						
2015			Α						
100%	Land	Multi-Residential Land		Dwel	ling	Buildir	ıg	Total	Acres
Value	92,630	0		0		0		92,630	31.54
Taxable	Land	Multi-Residential Land			Dwelling	ı	Buildiı	ng	Total
Value	92,630	0			0		0		92,630

Year				Class							
2014				Α							
100%	Land	Mult	i-Residential L	and	Dwe	ling	Build	ding	Total		Acres
Value	91,700	0			0		0		91,700		31.54
Credits	Military Exemptior		Homestead Credit	Disabled Veteran Credit		perty Tax ef Credit		Agricultı Credit		Fan Cre	nily Farm dit
								Υ			
Taxable	Land	Mu	Iti-Residential	Land		Dwelling	ı	Buildir	ng	To	tal
Value	40,992	0				0		0		40	,992

Year				Class					
2013				Α					
100%	Land	Multi	-Residential I	_and	Dwelling	Buil	ding	Total	Acres
Value	91,700	0			0	0		91,700	31.54
Credits			Disabled Veteran Credit	Property Ta Relief Credi		Agricultura Credit		Family Farm Credit	
							Υ		
Taxable	Land	Mul	ti-Residential	Land	Dwellin	g	Buildi	ng	Total
Value	39,798	0	-	-	0		0		39,798

	TAX INFORMATION ASSESSMENT YEAR 2014 PAYABLE 2015/2016					
Tax District	941168 - SAN MARNAN ECON AGLAND TIFAMD1					
	Gross Value	Taxable Value	Military Exemption	Levy Rate	Gross Tax	Net Tax
Corp	0	0	0	41.48607	\$0.00	\$1,022.00

Nocorp	91,700	40,992 0	26	.72612	\$1,095.56
	Homestead Credit	Disabled Veteran Credit	1 . ,	Ag Credit	Business Property Tax Credit
Corp	\$0.00	\$0.00	\$0.00	\$73.33	\$0.00
Nocorp			\$0.00		

LEGAL

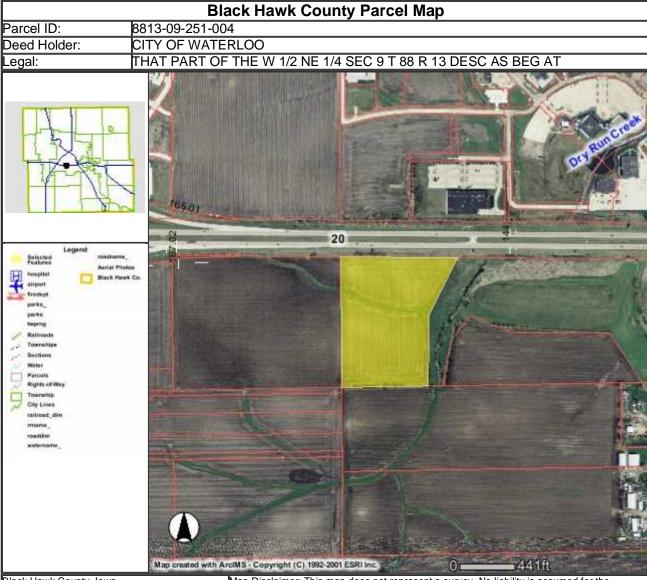
SE NW EXC HWY SEC 9 T 88 R 13 EXC A PARCEL OF LAND DESC AS FOL COM AT THE N 1/4 COR SAID SEC 9 TH S ON THE E LINE OF NW 1/4 1322.88 FT TO THE NE COR OF SE 1/4 NW 1/4 SAID SEC 9 TH CONT S ON THE E LINE OF NW 1/4 SAID SEC 9 288.96 FT TO PRESENT S ROW LINE US HWY 20 TH N 89 DEG 35 MIN 47 SEC W ON PRESENT S ROW LINE OF US HWY 20 780.40 FT TO PT OF BEG OF THE PARCEL HEREIN DESC TH S 87 DEG 58 MIN 46 SEC W 544.29 FT TO THE PRESENT S ROW LINE OF US HWY 20 ALSO BEING W LINE OF SE 1/4 NW 1/4 SAID SEC 9 TH N ON THE PRESENT S ROW LINE US HWY 20 ALSO BEING THE W LINE OF SE 1/4 NW 1/4 SAID SEC 9 23.02 FT TH S 89 DEG 35 MIN 47 SEC E ON THE PRESENT S ROW LINE OF US HWY 20 544.09 FT TO THE PT OF BEG

Agricultural Land/CSR2

Class	Acres	Unit/Acres	Units	Adjustment	Adjusted Units
Aredale loam	1.38	83	114.54	0	114.54
Clyde-Floyd complex	0.37	87	32.19	0	32.19
Dinsdale silty clay loam	15.56	95	1478.2	0	1478.2
Klinger silty clay loam	6.44	95	611.8	0	611.8
Maxfield silty clay loam	7.79	94	732.26	0	732.26
Totals:	31.54	94	2968.99	0	2968.99

Entry Status: Inspected

Date Website Last Updated: 10/23/2015



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E-mail: auditor@co.black-hawk.ia.us.org

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BLAC	BLACK HAWK COUNTY REAL ESTATE ASSESSMENT AND TAX INFORMATION						
Parcel ID		Deed Holder		Tax Ma	il to Addres	SS	
8813-0	9-251-004	CITY OF WATERLOO		-	F WATERLO		
PDF No.	Map Area	Contract Buyer				EPARTMENT	
5	SWTLO-14			WATEF	RLOO, IA 50	703-0000	
Property A	Property Address Current Recorded Transfer						
00000			Date	Drawn	Date Filed	Recorded Docum	ent Type
00000-000	0		12/15	/2011	12/16/2011	2012 011192	D

		SALES	BUILDING PERMIT
Date	Amount	NUTC / Type	None
12/15/2011		MULTIPLE PARCEL SALE - 09/11 / Deed	
2/18/2000	· '	LAND TO BE OPERATED AS A UNIT - PRIOR 09 / Contract	

Year			Class				
2015			E				
100%	Land	Multi-Residential Land	D	welling	Building	Total	Acres
Value	40,900	0	0		0	40,900	16.89
Taxable	Land	Multi-Residential Land		Dwelling	g Buildi	ng	Total
Value	40,900	0		0	0		40,900

Year			Class							
2014			E							
100%	Land	Multi-Residential Land		Dwel	ling	Buildir	ıg	Total		Acres
Value	40,900	0	(0		0		40,900		16.89
Taxable	Land	Multi-Residential Land			Dwelling	ı	Buildiı	ng	To	tal
Value	40,900	0			0		0		40,	900

Year			Class				
2013			E				
100%	Land	Multi-Residential Land	D	welling	Building	Total	Acres
Value	40,900	0	0		0	40,900	16.89
Taxable	Land	Multi-Residential Land		Dwelling	Build	ing	Total
Value	40,900	0		0	0		40,900

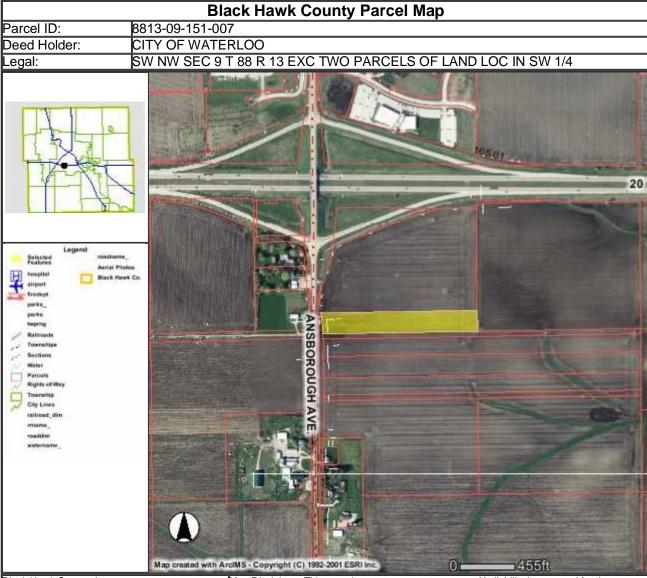
	TAX INFORMATION ASSESSMENT YEAR 2014 PAYABLE 2015/2016					
Tax District	941168 - SAN MARNAN ECON AGLAND TIFAMD1					
	Gross Value	Taxable Value	Military Exemption	Levy Rate	Gross Tax	Net Tax
Corp	0	0	0	41.48607	\$0.00	\$0.00
Nocorp	0	0	0	26.72612	\$0.00	
	Homestead	Disabled Vetera	n Property Tax Rel	ief Ag	Business Pro	perty Tax
	Credit	Credit	Credit	Credit	Credit	
Corp	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
Nocorp			\$0.00			

LEGAL

THAT PART OF THE W 1/2 NE 1/4 SEC 9 T 88 R 13 DESC AS BEG AT THE CENTER OF SAID SEC TH N 1033.5 FT ALONG W LINE OF SAID NE 1/4 TH S 89 DEG 19 1/2 MIN E 920.5 FT TH S 26 DEG 56 MIN W 508.5 FT TH S 561.8 FT TO PT ON S LINE OF NE 1/4 TH S 89 DEG 21 1/2 MIN W 680.4 FT ALONG S LINE TO PT OF BEG

Entry Status: Inspected

Date Website Last Updated: 10/23/2015



Black Hawk County, Iowa 316 East 5th Street Waterloo, Iowa 50703-4774 Phone: (319) 833-3002 Fax: (319) 833-3070

E-mail: auditor@co.black-hawk.ia.us.org

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BLAC	BLACK HAWK COUNTY REAL ESTATE ASSESSMENT AND TAX INFORMATION							
Parcel ID		Deed Holder		Tax Ma	ail to Addre	SS		
8813-0	09-151-007	CITY OF WATERLOO		_	OF WATERL JLBERRY S			
PDF No.	Map Area	Contract Buyer				DEPARTMEI	NT	
5	SWTLO-14			WATE	RLOO, IA 50	0703-0000		
Property A	Address	·	Curre	nt Rec	orded Tran	sfer		
00000			Date	Drawn	Date Filed	Recorded	Document	Туре
00000-000	0		12/15	/2011	12/16/2011	2012 0111	92	D

	SALES	BUILDING PERMIT
Date	Amount NUTC / Type	None
12/15/2011	750,000 SALE OF PORTION OF PROPERTY (SPLIT) - 09/11 / Deed	

Year			Class					
2015			E					
100%	Land	Multi-Residential Land	D۱	welling	Buildir	ıg	Total	Acres
Value	13,600	0	0		0		13,600	4.62
Taxable	Land	Multi-Residential Land		Dwelling	3	Buildir	ng	Total
Value	13,600	0		0		0		13,600

Year			Class					
2014			E					
100%	Land	Multi-Residential Land	Dwe	lling	Building	3	Total	Acres
Value	13,600	0	0		0		13,600	4.62
Taxable	Land	Multi-Residential Land		Dwelling	j JE	Buildir	ng	Total
Value	13,600	0		0	C			13,600

Year			Class					
2013			E					
100%	Land	Multi-Residential Land	Dwe	elling	Buildin	ıg	Total	Acres
Value	13,600	0	0		0		13,600	4.62
Taxable	Land	Multi-Residential Land		Dwelling	ı	Buildiı	ng	Total
Value	13,600	0		0		0		13,600

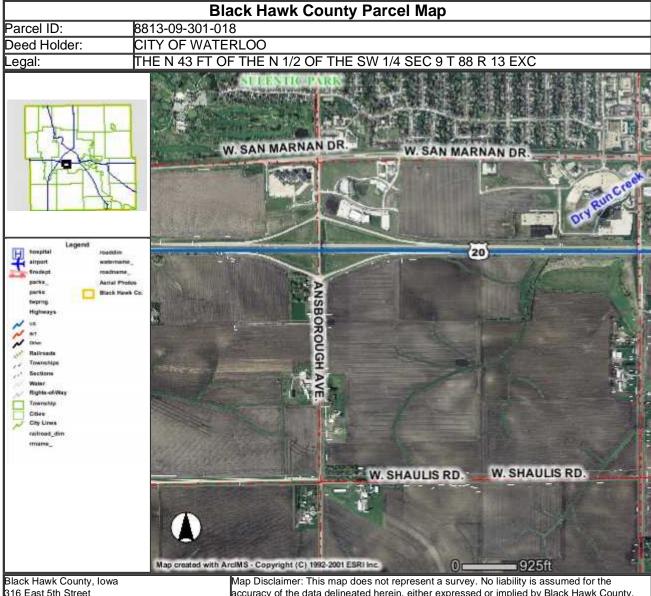
	TAX INFORMATION ASSESSMENT YEAR 2014 PAYABLE 2015/2016							
Tax District 941168 - SAN MARNAN ECON AGLAND TIFAMD1								
	Gross Value	Taxable Value	Mil	litary Exemption	Levy Rate	Gross Tax	Net Tax	
Corp	0	0	0		41.48607	\$0.00	\$0.00	
Nocorp	0	0	0		26.72612	\$0.00		
	Homestead Credit	Disabled Vetera Credit	an	Property Tax Relief Credit		Business Pro Credit	perty Tax	
Corp	\$0.00	\$0.00		\$0.00	\$0.00	\$0.00		
Nocorp				\$0.00				

LEGAL

SW NW SEC 9 T 88 R 13 EXC TWO PARCELS OF LAND LOC IN SW 1/4 NW 1/4 DESC AS FOL COM AT W 1/4 COR OF SAID SEC 9 TH N ON W LINE OF NW 1/4 206.79 FT TH N 89 DEG 40 MIN 5 SEC E A DIST OF 33 FT TO PRESENT ROW LINE OF ANSBOROUGH AV PT OF BEG TH N ON PRESENT E ROW LINE OF ANSBOROUGH AV 98.97 FT TH N 19 DEG 19 MIN 34 SEC E ON E ROW LINE OF ANSBOROUGH AV $94.95~\mathrm{FT}$ TH S 7 DEG 13 MIN 38 SEC W 190.04 FT TH S 89 DEG 43 MIN 14 SEC W 7.01 FT TO PT OF BEG ALSO EXC COM AT W 1/4 COR OF SAID SEC 9 TH N ON W LINE OF NW 1/4 OF SAID SEC 9 692.46 FT TH N 89 DEG 40 MIN 5 SEC E 151.03 FT TO PRESENT E ROW LINE OF ANSBOROUGH AV PT OF BEG TH N 6 DEG 40 MIN 43 SEC E ON PRESENT E ROW LINE OF ANSBOROUGH AV 334.91 FT TO PRESENT S ROW LINE OF US HWY 20 TH S 89 DEG 37 MIN 25 SEC E ON THE PRESENT S ROW LINE OF US HWY 20 824.58 FT TH S 73 DEG 46 MIN 23 SEC W 268.56 FT TH S 68 DEG 42 MIN 16 SEC W $546.74~\mathrm{FT}$ TH S $60~\mathrm{DEG}$ 52 MIN $42~\mathrm{SEC}$ W $110.16~\mathrm{FT}$ TO BEG EXC PARCEL B THAT PART OF THE SW 1/4 NW 1/4 SEC 9 T 88 R 13 DESC AS FOL COM AT THE SW COR OF SAID SW 1/4 NW 1/4 TH ALONG THE W LINE OF SAID SW 1/4 NW 1/4 N 170.1 FT TH N 89 DEG 5 MIN E 33 FT TO THE ELY ROW LINE ANSBOROUGH AV BEING THE PT OF BEG TH ALONG ELY ROW LINE N 36.1 FT TH ALONG SAID ELY ROW LINE N 88 DEG 03 MIN E 7 FT TH ALONG SAID ELY ROW LINE N 7 DEG 13 3/4 MIN E 190 FT TH ALONG SAID ELY ROW LINE N 19 DEG 18 MIN E 224.25 FT TH ALONG SAID ELY ROW LINE N 06 DEG 45 MIN E 86.8 FT TH ALONG THE SELY ROW LINE OF US HWY 20 AKA IOWA HWY 27 N 60 DEG 54 1/2 MIN E 110 FT TH ALONG SAID SELY ROW LINE N 68 DEG 42 MIN E 546.7 FT TH ALONG SAID SELY ROW N 73 DEG 46 1/2 MIN E 268.65 FT TH ALONG SLY ROW LINE OF SAID US HWY 20 S 89 DEG 36 3/4 MIN E 306.95 FT E LINE OF SAID SW 1/4 OF NW 1/4 TH ALONG SAID E LINE S 827.25 TH S 89 DEG 05 MIN W 1290.35 FT TO PT OF BEG EXC THAT PART OF ROW IN SURVEY 2012 012497 LOC SW NW

Entry Status: Vacant

Date Website Last Updated: 10/23/2015



Black Hawk County, Iowa 316 East 5th Street Waterloo, Iowa 50703-4774 Phone: (319) 833-3002

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BLAC	BLACK HAWK COUNTY REAL ESTATE ASSESSMENT AND TAX INFORMATION								
Parcel ID		Deed Holder		Tax Mail to Address					
8813-0	09-301-018	CITY OF WATERLOO		CITY OF WATERLOO 715 MULBERRY ST					
PDF No.	Map Area	Contract Buyer		ATTN: FINANCE DEPARTMENT					
5	SWTLO-14			WATERLOO, IA 50703-0000					
Property A	Address	·	Current Recorded Transfer						
00000			Date	te Drawn Date Filed Recorded Document Type					
00000-000	0		12/15	15/2011 12/16/2011 2012 011192 D					

	SALES	BUILDING PERMIT
Date	AmountNUTC / Type	None
12/15/2011	0 MULTIPLE PARCEL SALE - 09/11 / Deed	

Year			Class					
2015			E					
100%	Land	Multi-Residential Land		Dwelling	Buildin	g h	Total	Acres
Value	7,290	0		0	0	7	7,290	2.48
Taxable	Land	Multi-Residential Land		Dwelling	3	Building	g	Total
Value	7,290	0		0		0		7,290

Year			Class					
2014			E					
100%	Land	Multi-Residential Land	Dw	elling	Buildin	g	Total	Acres
Value	7,290	0	0		0		7,290	2.48
Taxable	Land	Multi-Residential Land		Dwelling	l	Buildi	ng	Total
Value	7,290	0	·	0		0		7,290

Year			Class					
2013			E					
100%	Land	Multi-Residential Land	D	welling	Buildin	g	Total	Acres
Value	7,290	0	0		0		7,290	2.48
Taxable	Land	Multi-Residential Land		Dwelling	9	Buildir	ng	Total
Value	7,290	0		0		0		7,290

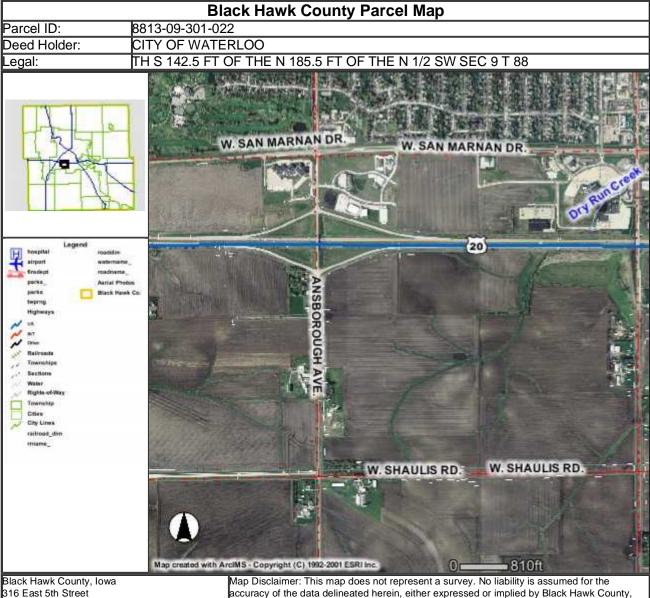
	TAX INFORMATION ASSESSMENT YEAR 2014 PAYABLE 2015/2016								
Tax District	941168 - SAN MARNAN ECON AGLAND TIFAMD1								
	Gross Value	Taxable Value	Mi	litary Exemption	L	evy Rate		Gross Tax	Net Tax
Corp	0	0	О		4	1.48607		\$0.00	\$0.00
Nocorp	0	0	0		2	6.72612		\$0.00	
;	Homestead	Disabled Vetera	n	Property Tax Relief		Ag		usiness Pro	perty Tax
	Credit	Credit		Credit		Credit	Cı	redit	
Corp	\$0.00	\$0.00		\$0.00		\$0.00	\$0	0.00	
Nocorp				\$0.00			Г		

LEGAL

THE N 43 FT OF THE N 1/2 OF THE SW 1/4 SEC 9 T 88 R 13 EXC THAT PART ROW IN SURVEY 2012 012497

Entry Status: Vacant

Date Website Last Updated: 10/23/2015



Black Hawk County, Iowa 316 East 5th Street Waterloo, Iowa 50703-4774 Phone: (319) 833-3002 Fax: (319) 833-3070

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BLAC	BLACK HAWK COUNTY REAL ESTATE ASSESSMENT AND TAX INFORMATION									
Parcel ID		Deed Holder	Deed Holder		Tax Mail to Address					
8813-09-301-022				CITY OF WATERLOO 715 MULBERRY ST						
PDF No.	Map Area	Contract Buyer			_	EPARTMENT				
5	SWTLO-14			WATEF	RLOO, IA 50	703-0000				
Property A	\ddress	<u>'</u>	Curre	urrent Recorded Transfer						
00000			Date	Drawn	Date Filed	Recorded Document	Туре			
00000-000	0		11/8/	2012	11/8/2012	2013 009653	D			

	SALES	BUILDING PERMIT
Date	Amount NUTC / Type	None
11/8/2012	333,000 SPLIT OR DIVISION - 12 / Deed	

Year			Class				
2015			E				
100%	Land	Multi-Residential Land	Dw	elling	Building	Total	Acres
Value	24,550	0	0		0	24,550	8.37
Taxable	Land	Multi-Residential Land		Dwelling	g Buildi	ng	Total
Value	24,550	0		0	0		24,550

Year			Class				
2014			E				
100%	Land	Multi-Residential Land	Dwe	lling	Building	Total	Acres
Value	24,550	0	0		0	24,550	8.37
Taxable	Land	Multi-Residential Land		Dwelling	ј В	uilding	Total
Value	24,550	0		0	0		24,550

Year			Class						
2013			E						
100%	Land	Multi-Residential Land		Dwel	ling	Buildir	ng	Total	Acres
Value	24,550	0		0		0		24,550	8.37
Taxable	Land	Multi-Residential Land			Dwelling	ı	Buildir	ng	Total
Value	24,550	0			0		0		24,550

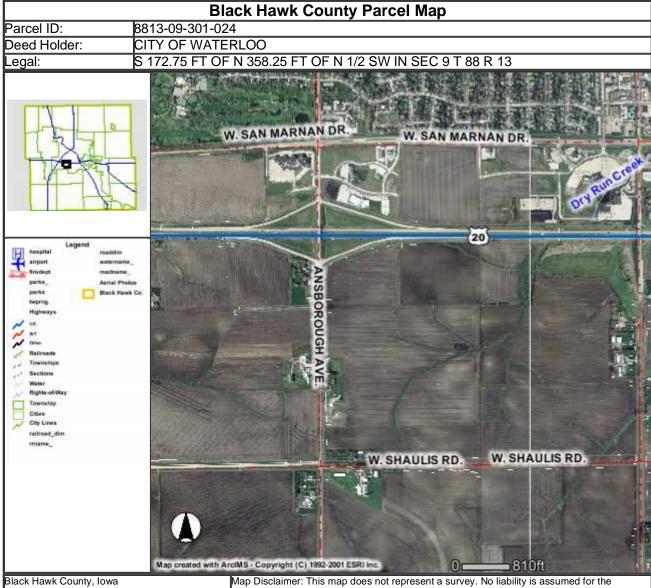
	TAX INFORMATION ASSESSMENT YEAR 2014 PAYABLE 2015/2016								
Tax District									
	Gross Value Taxable Value Military Exemption Levy Rate Gross Tax Net Tax								
Corp	0	0	0		41	1.48607		\$0.00	\$0.00
Nocorp	0	0	0		26	5.72612		\$0.00	
	Homestead Credit	Disabled Veterar Credit		Property Tax Relief Credit		Ag Credit		usiness Pro _l redit	perty Tax
Corp	\$0.00	\$0.00				\$0.00	_	0.00	
Nocorp		\$0.00							

LEGAL

TH S 142.5 FT OF THE N 185.5 FT OF THE N 1/2 SW SEC 9 T 88 R 13 EXC THAT PART CONVEYED TO CITY OF WATERLOO IN DEED 2012 16922

Entry Status: Vacant

Date Website Last Updated: 10/23/2015



Black Hawk County, Iowa 316 East 5th Street Waterloo, Iowa 50703-4774 Phone: (319) 833-3002 Fax: (319) 833-3070

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BLAC	BLACK HAWK COUNTY REAL ESTATE ASSESSMENT AND TAX INFORMATION										
Parcel ID Deed Holder			Tax Mail to Address								
8813-0	9-301-024	CITY OF WATERLOO		-	F WATERLO						
PDF No.	Map Area	Contract Buyer				EPARTMENT					
5	SWTLO-14			WATER	RLOO, IA 50	703-0000					
Property Address Cui					orded Trans	sfer					
00000			Date	Drawn	Date Filed	Recorded Documen	t Type				
00000-000	0		11/26	/2013	12/10/2013	2014 011802	D				

SALES	BUILDING PERMIT
Date Amount NUTC / Type	None
11/26/2013 461,290 SPLIT OR DIVISION - 12 / Deed	

Year			Class				
2015			E				
100%	Land	Multi-Residential Land	Dwe	lling	Building	Total	Acres
Value	30,110	0	0		0	30,110	10.23
Taxable	Land	Multi-Residential Land		Dwelling	j Bu	ilding	Total
Value	30,110	0		0	0		30,110

Year			Class					
2014			E					
100%	Land	Multi-Residential Land	Dwe	elling	Buildir	ng	Total	Acres
Value	30,110	0	0		0		30,110	10.23
Taxable	Land	Multi-Residential Land		Dwelling]	Buildi	ng	Total
Value	30,110	0		0		0		30,110

	TAX INFORMATION ASSESSMENT YEAR 2014 PAYABLE 2015/2016									
Tax District	194116X - SAN MARNAN ECON AGLAND HEAMD1									
	Gross Value Taxable Value Military Exemption Levy Rate Gross Tax Net Tax									
Corp	0	0	О		41	.48607	\$	0.00	\$0.00	
Nocorp	0	0	0		26	.72612	\$	0.00		
	Homestead Credit	Disabled Vetera Credit	an	Property Tax Relief Credit		Ag Credit	Bu	siness Pro edit	perty Tax	
Corp	\$0.00	\$0.00	0.00 \$0.00 \$0.00							
Nocorp		\$0.00								

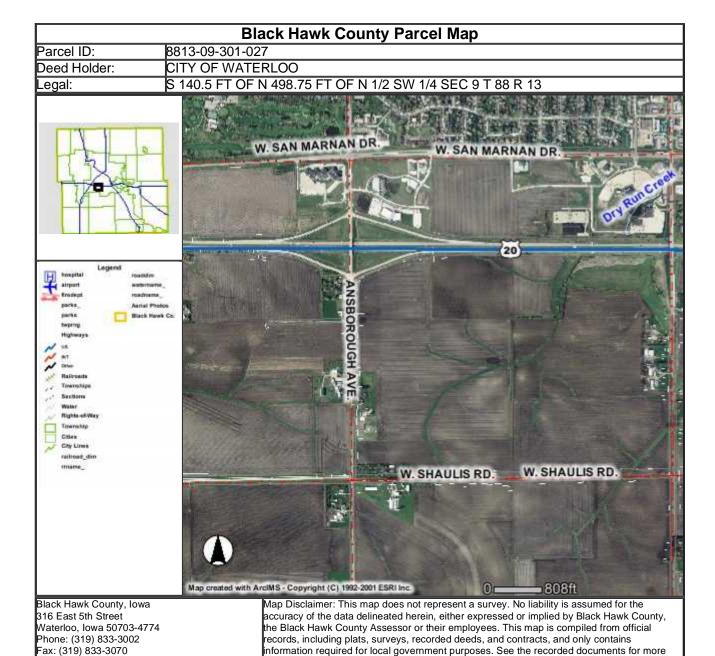
LEGAL

S 172.75 FT OF N 358.25 FT OF N 1/2 SW IN SEC 9 T 88 R 13 EXC THAT PART CONVEYED IN 2012-016922

Fntry	Status:	Vacant
ILII V	otatus.	vacant

Date Website Last Updated: 10/23/2015

Printable Map Output



E-mail: auditor@co.black-hawk.ia.us.org

http://www2.co.black-hawk.ia.us/servlet/com.esri.esrimap.Esrimap?ServiceName=bhov...

detailed legal information.

BLACK HAWK COUNTY REAL ESTATE ASSESSMENT AND TAX INFORMATION										
Parcel ID Dee		Deed Holder	Tax Mail to Address							
8813-09-301-027				CITY OF WATERLOO 715 MULBERRY ST						
PDF No.	Map Area	Contract Buyer		ATTN: FINANCE DEPARTMENT						
5	SWTLO-14			WATERLOO, IA 50703-0000						
Property A	Property Address Cur					irrent Recorded Transfer				
00000			Date	Drawn	Date Filed	Recorded Document	Туре			
00000-0000			2/20/2	2014	2/28/2014	2014 015832	D			

SALES	BUILDING PERMIT
Date Amount NUTC / Type	None
2/20/2014 395,846 SPLIT OR DIVISION - 12 / Deed	

ASSESSED VALUES/CREDITS

Year			Class					
2015			E					
100%	Land	Multi-Residential Land	Dwe	lling	Buildin	g	Total	Acres
Value	23,930	0	0		0		23,930	8.31
Taxable	Land	Multi-Residential Land		Dwelling	j E	Buildir	ng	Total
Value	23,930	0		0	()		23,930

LEGAL

S 140.5 FT OF N 498.75 FT OF N 1/2 SW 1/4 SEC 9 T 88 R 13 EXC ROW DOC 2012-16922

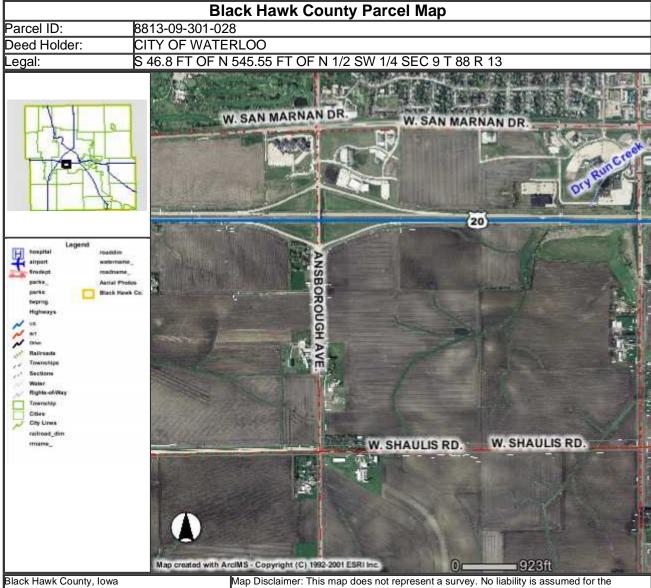
Agricultural Land/CSR2

Class	Acres	Unit/Acres	Units	Adjustment	Adjusted Units
Kenyon loam	0.91	84	76.44	0	76.44
Klinger silty clay loam	2.01	95	190.95	0	190.95
Maxfield silty clay loam	3.58	94	336.52	0	336.52
Dinsdale silty clay loam	1.81	95	171.95	0	171.95
Totals:	8.31	93	775.86	0	775.86

Entry Status: Vacant

Date Website Last Updated: 10/23/2015

Printable Map Output



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BLACK HAWK COUNTY REAL ESTATE ASSESSMENT AND TAX INFORMATION										
Parcel ID De		Deed Holder	Tax Mail to Add			ess				
8813-09-301-028				CITY OF WATERLOO 715 MULBERRY ST						
PDF No.	Map Area	Contract Buyer		ATTN: FINANCE DEPARTMENT						
5	SWTLO-14			WATERLOO, IA 50703-0000						
Property A	Property Address Cur					ırrent Recorded Transfer				
00000			Date	Drawn	Date Filed	Recorded Document	Туре			
00000-0000			9/30/2	2014	9/30/2014	2015 005696	D			

	SALES	BUILDING PERMIT
Date	Amount NUTC / Type	None
9/30/2014	131,949 SPLIT OR DIVISION - 12 / Deed	

ASSESSED VALUES/CREDITS

Year			Class						
2015			E						
100%	Land	Multi-Residential Land		Dwellin	g	Buildin	g	Total	Acres
Value	8,170	0		0		0		8,170	2.77
Taxable	Land	Multi-Residential Land		D۱	welling		Buildir	ng	Total
Value	8,170	0		0			0		8,170

LEGAL

S 46.8 FT OF N 545.55 FT OF N 1/2 SW 1/4 SEC 9 T 88 R 13 EXC ROW DOC 2012-16922

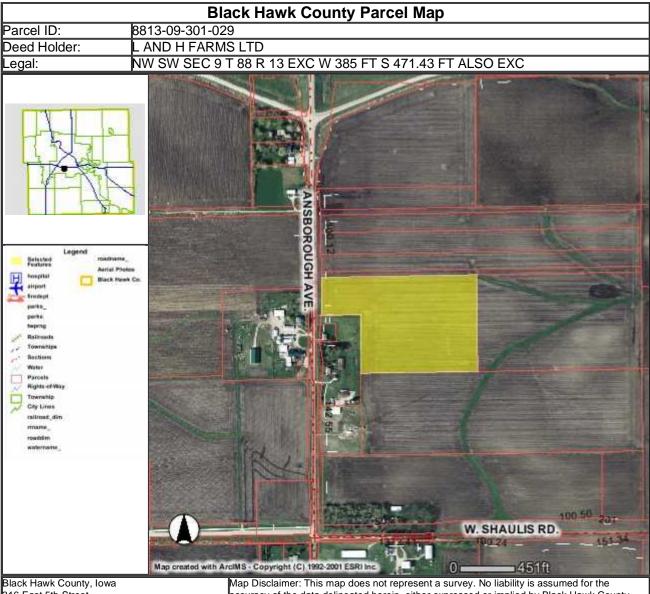
Agricultural Land/CSR2

Class	Acres	Unit/Acres	Units	Adjustment	Adjusted Units
Klinger silty clay loam	0.38	95	36.1	0	36.1
Dinsdale silty clay loam	0.91	95	86.45	0	86.45
Maxfield silty clay loam	1.48	94	139.12	0	139.12
Totals:	2.77	94	261.67	0	261.67

Entry Status: Vacant

Date Website Last Updated: 10/23/2015

Printable Map Output



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BLAC	BLACK HAWK COUNTY REAL ESTATE ASSESSMENT AND TAX INFORMATION								
Parcel ID Deed		Deed Holder		Tax Mail to Address					
8813-09-301-029		1		L AND H FARMS LTD 7502 HAMMOND AV					
PDF No.	Map Area	Contract Buyer	Contract Buyer		WATERLOO, IA 50701-0000				
5	SWTLO-14								
Property Address			Current Recorded Transfer						
00000			Date Dr	awn	Date Filed	Recorded Document	Туре		
00000-0000			5/12/19	82	6/3/1982	LD 542966	D		

ASSESSED VALUES/CREDITS

Year			Class							
2015			Α							
100%	Land	Multi-Residential Land		Dwel	ling	Buildir	ıg	Total	Acres	<u> </u>
Value	56,280	0	()		0		56,280	19.03	
Taxable	Land	Multi-Residential Land			Dwelling		Buildiı	ng	Total	
Value	56,280	0	·		0		0		56,280	

LEGAL

NW SW SEC 9 T 88 R 13 EXC W 385 FT S 471.43 FT ALSO EXC S 187.3 FT OF N 545.55 FT OF N 1/2 SW 1/4 SEC 9 T 88 R 13 E ALSO EXC N 358.25 FT ALSO EXC THAT ROW IN SURVEY 2012-012497

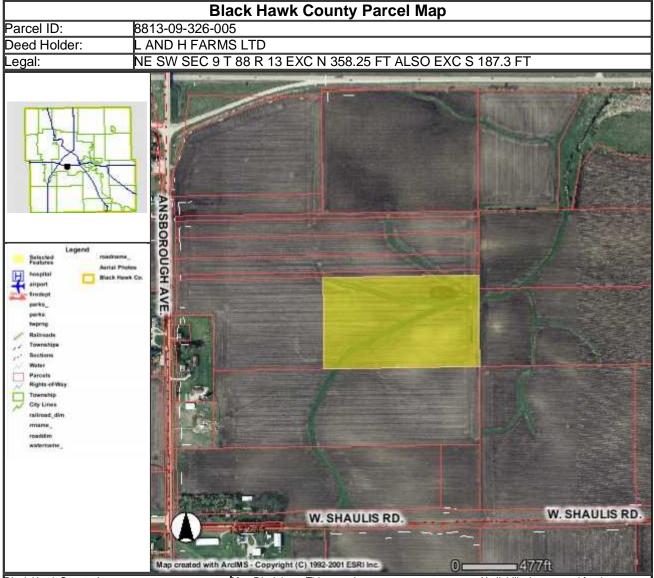
Agricultural Land/CSR2

Class	Acres	Unit/Acres	Units	Adjustment	Adjusted Units
Dinsdale silty clay loam	13.76	95	1307.2	0	1307.2
Maxfield silty clay loam	3.96	94	372.24	0	372.24
Klinger silty clay loam	1.31	95	124.45	0	124.45
Totals:	19.03	95	1803.89	0	1803.89

Entry	/ Status: Vacant		

Date Website Last Updated: 10/23/2015

Printable Map Output Page 1 of 1



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BLAC	BLACK HAWK COUNTY REAL ESTATE ASSESSMENT AND TAX INFORMATION							
Parcel ID Deed Holder		Tax Mail to Address						
8813-09-326-005 L AND H FARMS LTD				ID H FARMS 2 HAMMONI	_			
PDF No.	Map Area	Contract Buyer		TAW	TERLOO, IA	50701-0000		
5	SWTLO-14							
Property A	Address	•	Current	Rec	orded Trans	sfer		
00000		Date Dr	awn	Date Filed	Recorded Documen	t Type		
00000-000	0		5/12/19	82	6/3/1982	LD 542966	D	

ASSESSED VALUES/CREDITS

Year			Class						
2015			Α						
100%	Land	Multi-Residential Land		Dwel	ling	Buildir	ıg	Total	Acres
Value	68,380	0	()		0		68,380	23.4
Taxable	Land	Multi-Residential Land			Dwelling		Buildiı	ng	Total
Value	68,380	0	·		0		0		68,380

LEGAL

NE SW SEC 9 T 88 R 13 EXC N 358.25 FT ALSO EXC S 187.3 FT OF N 545.55 FT OF N 1/2 SW 1/4 SEC 9 T 88 R 13 ALSO EXC N 358.25 FT ALSO EXC THAT ROW IN SURVEY 2012 012497

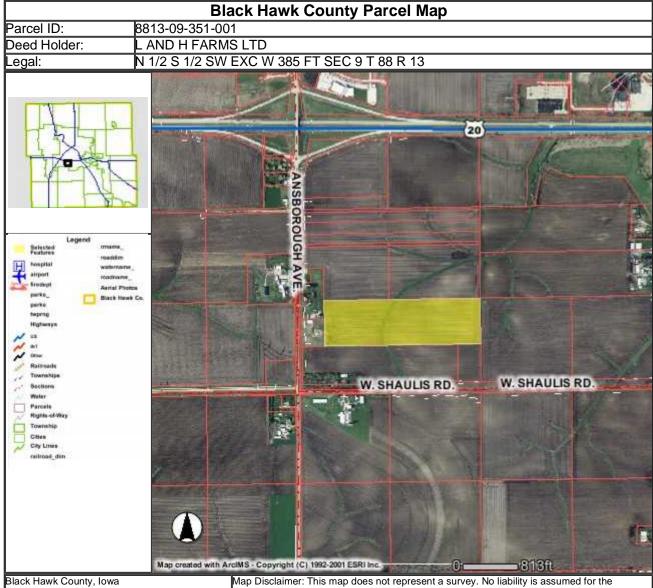
Agricultural Land/CSR2

Class	Acres	Unit/Acres	Units	Adjustment	Adjusted Units
Dinsdale silty clay loam	6.1	95	579.5	0	579.5
Klinger silty clay loam	1.39	95	132.05	0	132.05
Dinsdale silty clay loam	2.58	88	227.04	0	227.04
Maxfield silty clay loam	13.33	94	1253.02	0	1253.02
Totals:	23.4	94	2191.61	0	2191.61

Entry Status: Vacant

Date Website Last Updated: 10/23/2015

Printable Map Output Page 1 of 1



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detailed legal information.

BLACK HAWK COUNTY REAL ESTATE ASSESSMENT AND TAX INFORMATION								
Parcel ID Deed Holder		Deed Holder		Tax Mail to Address				
8813-09-351-001 L AND H FARMS LTD				ID H FARMS HAMMONI	_			
PDF No.	Map Area	Contract Buyer		WATERLOO, IA 50701-0000				
5	SWTLO-14							
Property A	Property Address Current Recorded Transfer							
00000		Date Dra	awn	Date Filed	Recorded Document	Туре		
00000-0000		5/12/198	32	6/3/1982	LD 542966	D		

ASSESSED VALUES/CREDITS

Year			Class				
2015			Α				
100%	Land	Multi-Residential Land	Dwe	lling	Building	Total	Acres
Value	98,260	0	0		0	98,260	33.66
Taxable	Land	Multi-Residential Land		Dwelling	Buildi	ng	Total
Value	98,260	0		0	0		98,260

Year				Class							
2014				A							
100%	Land	Mult	i-Residential L	and	Dwe	ling	Buile	ding	Total		Acres
Value	97,160	0			0		0		97,160		33.66
Credits	Military Exemption		Homestead Credit	Disabled Veteran Credit		perty Tax ef Credit		Agricultu Credit		Fan Cre	nily Farm dit
Taxable	Land	Mu	lti-Residential	Land		Dwelling	•	Buildir) CI	T	otal
Value	43,433	0	ili-i\cəiUeIIllai	Lanu		0	<u> </u>	0	<u>iy</u>		3,433

Year				Class					
2013				A					
100%	Land	Mult	i-Residential I	_and	Dwelling	Buil	ding	Total	Acres
Value	97,160	0			0	0		97,160	33.66
Credits	Military Exemption		Homestead Credit	Disabled Veteran Credit	Property Ta Relief Credi		Agricult		Family Farm Credit
							Υ		
Taxable	Land	Mu	Iti-Residential	Land	Dwellin	g	Buildi	ng	Total
Value	42,167	0			0		0		42,167

	TAX IN	FORMATION AS	SESS	MENT YEAR 2014 F	PAY	ABLE 20	15/2016	
Tax District	941168 - SAN	MARNAN ECON	AGLA	AND TIFAMD1				
	Gross Value	Taxable Value	Mil	itary Exemption	Le	vy Rate	Gross Tax	Net Tax
Corp	0	0	0		41	.48607	\$0.00	\$1,084.00
Nocorp	97,160	43,433	0		26	.72612	\$1,160.80	
	Homestead Credit	Disabled Veter Credit	an	Property Tax Relie Credit	f	Ag Credit	Business Pr Credit	operty Tax
Corp	\$0.00	\$0.00		\$0.00		\$77.70	\$0.00	
Nocorp				\$0.00			ĺ	

LEGAL

N 1/2 S 1/2 SW EXC W 385 FT SEC 9 T 88 R 13

Agricultural Land/CSR2

Class	Acres	Unit/Acres	Units	Adjustment	Adjusted Units
Klinger silty clay loam	3.97	95	377.15	0	377.15
Maxfield silty clay loam	11.73	94	1102.62	0	1102.62
Dinsdale silty clay loam	2.91	89	258.99	0	258.99
Dinsdale silty clay loam	14.26	95	1354.7	0	1354.7
Dinsdale silty clay loam	0.43	88	37.84	0	37.84
Dinsdale silty clay loam	0.11	95	10.45	-4.9533	5.4967
Klinger silty clay loam	0.25	95	23.75	-11.2575	12.4925
Totals:	33.66	94	3165.5	-16.2108	3149.2892

Entry Status: Inspected	

Date Website Last Updated: 10/23/2015

ASTM E1527-13 USER QUESTIONNAIRE

Proposal No: P13150395

In order to qualify for one of the Landowner Liability Protections (LLPs) offered by the Small Business Relief and Brownfields Revitalization Act of 2001 (the "Brownfields Amendments"), the user must respond to the following questions. Failure to provide this information to the environmental professional may result in significant data gaps, which may limit our ability to identify recognized environmental conditions resulting in a determination that "all appropriate inquiry" is not complete. This form represents a type of interview and as such, the user has an obligation to answer all questions in good faith, to the extent of their actual knowledge.

Site Name: South Waterloo Business Park Site Address: SE Quadrant of U.S. Hwy 20 and Ansborough Avenue, Waterloo, Iowa 1) Did a search of recorded land title records (or judicial records where appropriate) identify any environmental liens filed or recorded against the property under federal, tribal, state, or local law (40 CFR 312.25)? XNO Yes If
yes, please explain.
2) Did a search of recorded land title records (or judicial records where appropriate) identify any activity and use limitations (AULs), such as engineering controls, land use restrictions, or institutional controls that are in place at the property and/or have been filed or recorded against the property under federal, tribal, state, or local law (40 CFR 312.26)? X_NoYes If yes, please explain.
3) Do you have any specialized knowledge or experience related to the site or nearby properties? For example, are you involved in the same line of business as the current or former occupants of the site or an adjoining property so that you would have specialized knowledge of the chemicals and processes used by this type of business (40 CFR 312-28)? \(\frac{1}{2} \) No \(\frac{1}{2} \) Yes, please explain.
4) Do you have actual knowledge of a lower purchase price because contamination is known or believed to be present at the site (40 CFR 312.29)? X NoYes
5) Are you aware of commonly known or reasonably ascertainable information about the site that would help the environmental professional to identify conditions indicative of releases or threatened releases (40 CFR 312.30)? NoYes If yes, please explain. historical land photos showing for ming
6) Based on your knowledge and experience related to the site, are there any obvious indicators that point to the presence or likely presence of contamination at the site (40 CFR 312.31)? X_NoYes If yes, please explain.

Please return this form with the signed and completed Agreement for Services.

ASTM E1527-13 USER QUESTIONNAIRE

Proposal No: P13150395

Request for Information and Documentation

In addition to the specific questions outlined above, the user is requested to provide the following information and documentation, as available. ASTM requires that this information, if available, be provided to the environmental professional prior to the site visit.

Item Supplied "X"	Not Applicable, Not Available or Not Known "X"	Item Requested (See Proposal)	Contacts/Comments or Indicate Attachment		
		Point of Contact for Access	Name/Phone: Lane Haven Farms-Curt Hollis 319-296-2255		
		Current Site Owner City of waterloo and Lane Haven Farms	Name/Phone: Noel anderson 319-291-4366		
		Current Facility Operator	Name/Phone:		
		Contacts for Prior Owners	Name/Phone:		
		Contacts for Prior Occupants	Name/Phone:		
		Access Restrictions	access often crops barvesfel		
		Notification of Special Requirements Regarding Confidentiality	none		
		Legal Description and Diagram / Survey of Site	see attached		
		Chain of Title with Grantor/Grantee Summary (back to 1940 or first developed use)	abstracts available		
		Reasons for Conducting ESA	purchase and site certification by		

Please return this form with the signed and completed Agreement for Services.

ASTM E1527-13 USER QUESTIONNAIRE

Proposal No: P13150395

Helpful Documents Checklist

Pursuant to ASTM E1527-13 § 10.8, do you know whether any of the following documents exist related to the subject property and, if so, whether copies can and will be provided to the environmental professional? Check all that apply.

X	Environmental site assessment reports		Notices or other correspondence from any governmental agency relating to past or current		
	Environmental compliance audit reports		violations of environmental laws with respect to the property or relating to environmental liens		
×	Geotechnical studies		encumbering the property		
	Reports regarding hydrogeologic conditions on the		Registrations for underground injection systems		
	property or surrounding area		Environmental permits/plans, solid waste permits,		
	Registrations for above or underground storage tanks		hazardous waste disposal permits, wastewate permits, NPDES permits, underground injectio permits, SPCC plans		

Don Temeyer
Name (Authorized Client Representative)

Economic Development Planner

Title

Signature

Date

APPENDIX D ENVIRONMENTAL DATABASE INFORMATION

South Waterloo Business Park

Ansborough Avenue / Highway 20 Waterloo, IA 50701

Inquiry Number: 4443919.2s

October 21, 2015

The EDR Radius Map™ Report with GeoCheck®

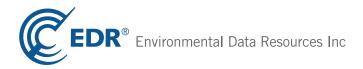


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Thank you for your business.
Please contact EDR at 1-800-352-0050
with any questions or comments.

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A search of available environmental records was conducted by Environmental Data Resources, Inc (EDR). The report was designed to assist parties seeking to meet the search requirements of EPA's Standards and Practices for All Appropriate Inquiries (40 CFR Part 312), the ASTM Standard Practice for Environmental Site Assessments (E 1527-13) or custom requirements developed for the evaluation of environmental risk associated with a parcel of real estate.

TARGET PROPERTY INFORMATION

ADDRESS

ANSBOROUGH AVENUE / HIGHWAY 20 WATERLOO, IA 50701

COORDINATES

Latitude (North): 42.4500000 - 42° 27' 0.00" Longitude (West): 92.3715000 - 92° 22' 17.40"

Universal Tranverse Mercator: Zone 15 UTM X (Meters): 551684.1 UTM Y (Meters): 4699718.5

Elevation: 957 ft. above sea level

USGS TOPOGRAPHIC MAP ASSOCIATED WITH TARGET PROPERTY

Target Property Map: 5944586 WATERLOO SOUTH, IA

Version Date: 2013

West Map: 5944568 HUDSON, IA

Version Date: 2013

AERIAL PHOTOGRAPHY IN THIS REPORT

Portions of Photo from: 20110704, 20110719

Source: USDA

MAPPED SITES SUMMARY

Target Property Address: ANSBOROUGH AVENUE / HIGHWAY 20 WATERLOO, IA 50701

Click on Map ID to see full detail.

MAP				RELATIVE	DIST (ft. & mi.)
ID	SITE NAME	ADDRESS	DATABASE ACRONYMS	ELEVATION	DIRECTION
1		887 WEST SHAULIS RD.	AST	Higher	675, 0.128, SSW
2	CASEY'S GENERAL STOR	51 E TOWER PARK DR	LUST, UST, Financial Assurance	Lower	2447, 0.463, ENE

TARGET PROPERTY SEARCH RESULTS

The target property was not listed in any of the databases searched by EDR.

DATABASES WITH NO MAPPED SITES

No mapped sites were found in EDR's search of available ("reasonably ascertainable ") government records either on the target property or within the search radius around the target property for the following databases:

STANDARD ENVIRONMENTAL RECORDS

Federal	NPI	site	list
i cuci ai	/1/ L	SILE	II3t

NPL	National Priority List
Proposed NPL	Proposed National Priority List Sites
NPL LIENS	Federal Superfund Liens

Federal Delisted NPL site list

Delisted NPL...... National Priority List Deletions

Federal CERCLIS list

FEDERAL FACILITY	Federal Facility Site Information listing			
CERCLIS	. Comprehensive Environmental Response,	Compensation	, and Liability	Information System

Federal CERCLIS NFRAP site List

CERC-NFRAP..... CERCLIS No Further Remedial Action Planned

Federal RCRA CORRACTS facilities list

CORRACTS..... Corrective Action Report

Federal RCRA non-CORRACTS TSD facilities list

RCRA-TSDF...... RCRA - Treatment, Storage and Disposal

Federal RCRA generators list

RCRA-LQG	RCRA - Large Quantity Generators
RCRA-SQG	RCRA - Small Quantity Generators
RCRA-CESQG	RCRA - Conditionally Exempt Small Quantity Generator

Federal institutional controls / engineering controls registries

LUCIS	Land Use Control Information System
US ENG CONTROLS	Engineering Controls Sites List

US INST CONTROL..... Sites with Institutional Controls Federal ERNS list ERNS..... Emergency Response Notification System State- and tribal - equivalent CERCLIS State and tribal landfill and/or solid waste disposal site lists SWF/LF..... Permitted Solid Waste Management Facilities State and tribal leaking storage tank lists LAST..... Leaking Aboveground Storage Tank Sites INDIAN LUST..... Leaking Underground Storage Tanks on Indian Land State and tribal registered storage tank lists FEMA UST..... Underground Storage Tank Listing State and tribal institutional control / engineering control registries INST CONTROL..... Sites with Institutional Controls State and tribal voluntary cleanup sites INDIAN VCP..... Voluntary Cleanup Priority Listing VCP..... Land Recycling Program Sites State and tribal Brownfields sites BROWNFIELDS..... Brownfields Site Listing ADDITIONAL ENVIRONMENTAL RECORDS Local Brownfield lists US BROWNFIELDS..... A Listing of Brownfields Sites Local Lists of Landfill / Solid Waste Disposal Sites INDIAN ODI_____ Report on the Status of Open Dumps on Indian Lands DEBRIS REGION 9..... Torres Martinez Reservation Illegal Dump Site Locations ODI...... Open Dump Inventory Local Lists of Hazardous waste / Contaminated Sites US HIST CDL..... National Clandestine Laboratory Register ALLSITES..... Contaminated Sites Tracking Database

DEL SHWS...... Delisted Contaminated Sites Listing US CDL...... Clandestine Drug Labs

Local Land Records

LIENS _____ Liens Filed Listing
LIENS 2_____ CERCLA Lien Information

Records of Emergency Release Reports

HMIRS..... Hazardous Materials Information Reporting System

SPILLS..... Spills Database

SPILLS 90...... SPILLS 90 data from FirstSearch

Other Ascertainable Records

RCRA NonGen / NLR....... RCRA - Non Generators / No Longer Regulated

SCRD DRYCLEANERS...... State Coalition for Remediation of Drycleaners Listing

US FIN ASSUR_____ Financial Assurance Information

EPA WATCH LIST..... EPA WATCH LIST

TSCA...... Toxic Substances Control Act

TRIS...... Toxic Chemical Release Inventory System

RAATS...... RCRA Administrative Action Tracking System

ICIS...... Integrated Compliance Information System

FTTS......FIFŘA/ TSCA Tracking System - FIFŘA (Federal Insecticide, Fungicide, & Rodenticide

Act)/TSCA (Toxic Substances Control Act)

MLTS...... Material Licensing Tracking System COAL ASH DOE..... Steam-Electric Plant Operation Data

COAL ASH EPA..... Coal Combustion Residues Surface Impoundments List

PCB TRANSFORMER...... PCB Transformer Registration Database

RADINFO...... Radiation Information Database

HIST FTTS...... FIFRA/TSCA Tracking System Administrative Case Listing

INDIAN RESERV......Indian Reservations

UMTRA..... Uranium Mill Tailings Sites LEAD SMELTERS.... Lead Smelter Sites

US AIRS..... Aerometric Information Retrieval System Facility Subsystem

US MINES..... Mines Master Index File

FINDS Facility Index System/Facility Registry System

AIRS...... Minor and Title V Sources Listing COAL ASH..... Coal Ash Disposal Site Listing

DRYCLEANERS..... Iowa Drycleaner List

Financial Assurance _____ Financial Assurance Information Listing

NPDES...... List of NPDES Permittees
TIER 2..... Tier 2 Information Listing

EDR HIGH RISK HISTORICAL RECORDS

EDR Exclusive Records

EDR MGP..... EDR Proprietary Manufactured Gas Plants

EDR US Hist Auto Stat...... EDR Exclusive Historic Gas Stations EDR US Hist Cleaners...... EDR Exclusive Historic Dry Cleaners

EDR RECOVERED GOVERNMENT ARCHIVES

Exclusive Recovered Govt. Archives

RGA HWS	Recovered Government Archive State Hazardous Waste Facilities List
RGA LUST	Recovered Government Archive Leaking Underground Storage Tank

SURROUNDING SITES: SEARCH RESULTS

Surrounding sites were identified in the following databases.

Elevations have been determined from the USGS Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified. Sites with an elevation equal to or higher than the target property have been differentiated below from sites with an elevation lower than the target property.

Page numbers and map identification numbers refer to the EDR Radius Map report where detailed data on individual sites can be reviewed.

Sites listed in **bold italics** are in multiple databases.

Unmappable (orphan) sites are not considered in the foregoing analysis.

STANDARD ENVIRONMENTAL RECORDS

State and tribal leaking storage tank lists

LUST: The Leaking Underground Storage Tank Incident Reports contain an inventory of reported leaking underground storage tank incidents. The data come from the Department of Natural Resources' Underground Storage Tank Data list.

A review of the LUST list, as provided by EDR, and dated 06/12/2015 has revealed that there is 1 LUST site within approximately 0.5 miles of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
CASEY'S GENERAL STOR Facility Id: 6602	51 E TOWER PARK DR	ENE 1/4 - 1/2 (0.463 mi.)	2	7

State and tribal registered storage tank lists

AST: The Aboveground Storage Tank database contains registered ASTs. The data come from the Department of Natural Resources' Aboveground Storage Tank Data list.

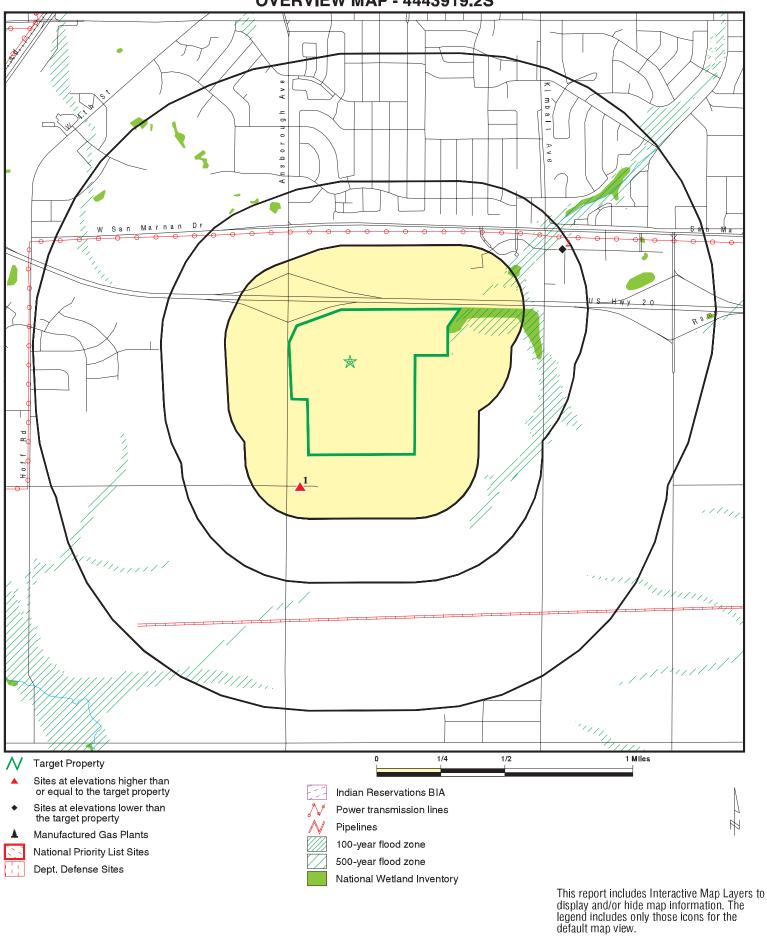
A review of the AST list, as provided by EDR, and dated 06/25/2015 has revealed that there is 1 AST site within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
Not reported	887 WEST SHAULIS RD.	SSW 1/8 - 1/4 (0.128 mi.)	1	7

Registration Number: 4084

There were no unmapped sites in this report.

OVERVIEW MAP - 4443919.2S

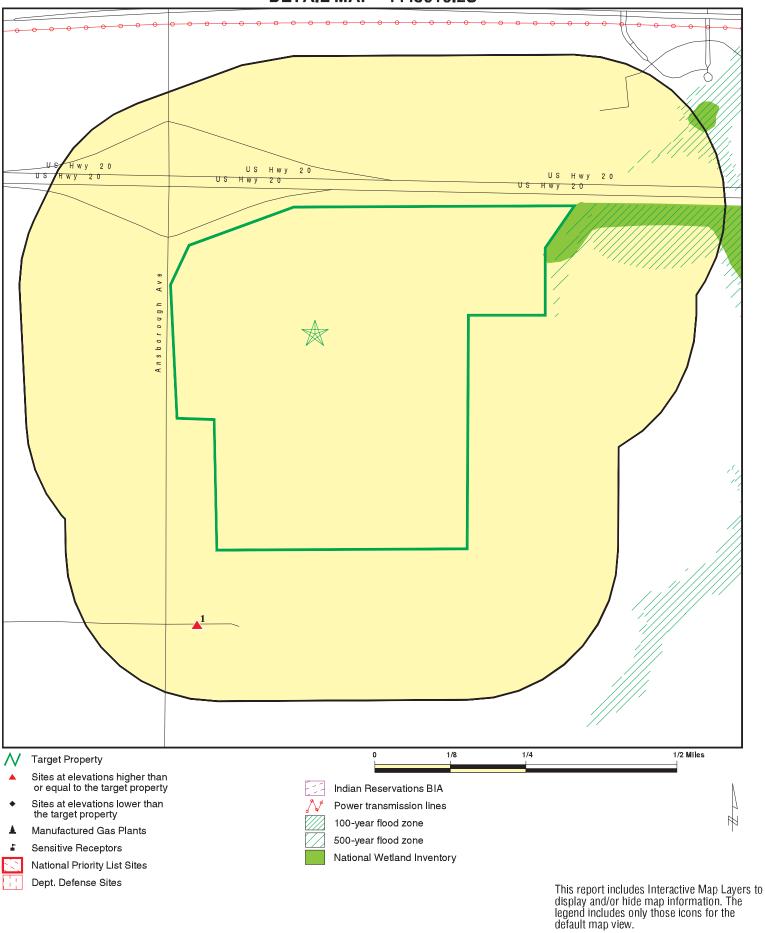


SITE NAME: South Waterloo Business Park ADDRESS: Ansborough Avenue / Highway 20

Waterloo IA 50701 LAT/LONG: 42.45 / 92.3715 CLIENT: Terracon,Inc. CONTACT: Dave Cleary INQUIRY#: 4443919.2s

DATE: October 21, 2015 11:27 am

DETAIL MAP - 4443919.2S



SITE NAME: South Waterloo Business Park
ADDRESS: Ansborough Avenue / Highway 20
Waterloo IA 50701
LAT/LONG: 42.45 / 92.3715

CLIENT: Terracon,Inc.
CONTACT: Dave Cleary
INQUIRY #: 4443919.2s
DATE: October 21, 2015 11:30 am

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
STANDARD ENVIRONMEN	TAL RECORDS							
Federal NPL site list								
NPL Proposed NPL NPL LIENS	1.000 1.000 TP		0 0 NR	0 0 NR	0 0 NR	0 0 NR	NR NR NR	0 0 0
Federal Delisted NPL sit	te list							
Delisted NPL	1.000		0	0	0	0	NR	0
Federal CERCLIS list								
FEDERAL FACILITY CERCLIS	0.500 0.500		0 0	0 0	0 0	NR NR	NR NR	0 0
Federal CERCLIS NFRA	P site List							
CERC-NFRAP	0.500		0	0	0	NR	NR	0
Federal RCRA CORRAC	TS facilities lis	t						
CORRACTS	1.000		0	0	0	0	NR	0
Federal RCRA non-COR	RACTS TSD fa	cilities list						
RCRA-TSDF	0.500		0	0	0	NR	NR	0
Federal RCRA generator	rs list							
RCRA-LQG RCRA-SQG RCRA-CESQG	0.250 0.250 0.250		0 0 0	0 0 0	NR NR NR	NR NR NR	NR NR NR	0 0 0
Federal institutional cor engineering controls re								
LUCIS US ENG CONTROLS US INST CONTROL	0.500 0.500 0.500		0 0 0	0 0 0	0 0 0	NR NR NR	NR NR NR	0 0 0
Federal ERNS list								
ERNS	TP		NR	NR	NR	NR	NR	0
State- and tribal - equiva	alent CERCLIS							
SHWS	1.000		0	0	0	0	NR	0
State and tribal landfill a solid waste disposal site								
SWF/LF	0.500		0	0	0	NR	NR	0
State and tribal leaking	storage tank lis	sts						
LUST LAST INDIAN LUST	0.500 0.500 0.500		0 0 0	0 0 0	1 0 0	NR NR NR	NR NR NR	1 0 0
State and tribal register	ed storage tanl	k lists						
FEMA UST	0.250		0	0	NR	NR	NR	0

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted	
UST AST INDIAN UST	0.250 0.250 0.250		0 0 0	0 1 0	NR NR NR	NR NR NR	NR NR NR	0 1 0	
State and tribal institutional control / engineering control registries									
INST CONTROL	0.500		0	0	0	NR	NR	0	
State and tribal voluntary cleanup sites									
INDIAN VCP VCP	0.500 0.500		0 0	0 0	0 0	NR NR	NR NR	0 0	
State and tribal Brownfields sites									
BROWNFIELDS	0.500		0	0	0	NR	NR	0	
ADDITIONAL ENVIRONMENTAL RECORDS									
Local Brownfield lists									
US BROWNFIELDS	0.500		0	0	0	NR	NR	0	
Local Lists of Landfill / Solid Waste Disposal Sites									
INDIAN ODI DEBRIS REGION 9 ODI	0.500 0.500 0.500		0 0 0	0 0 0	0 0 0	NR NR NR	NR NR NR	0 0 0	
Local Lists of Hazardous waste / Contaminated Sites									
US HIST CDL ALLSITES DEL SHWS US CDL	TP 0.500 1.000 TP		NR 0 0 NR	NR 0 0 NR	NR 0 0 NR	NR NR 0 NR	NR NR NR NR	0 0 0 0	
Local Land Records									
LIENS LIENS 2	TP TP		NR NR	NR NR	NR NR	NR NR	NR NR	0 0	
Records of Emergency Release Reports									
HMIRS SPILLS SPILLS 90	TP TP TP		NR NR NR	NR NR NR	NR NR NR	NR NR NR	NR NR NR	0 0 0	
Other Ascertainable Records									
RCRA NonGen / NLR FUDS DOD SCRD DRYCLEANERS US FIN ASSUR EPA WATCH LIST 2020 COR ACTION	0.250 1.000 1.000 0.500 TP TP 0.250		0 0 0 0 NR NR 0	0 0 0 0 NR NR 0	NR 0 0 0 NR NR NR	NR 0 0 NR NR NR NR	NR NR NR NR NR NR	0 0 0 0 0 0	

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	<u>1/2 - 1</u>	> 1	Total Plotted	
TSCA	TP		NR	NR	NR	NR	NR	0	
TRIS	TP		NR	NR	NR	NR	NR	Õ	
SSTS	TP		NR	NR	NR	NR	NR	Ō	
ROD	1.000		0	0	0	0	NR	0	
RMP	TP		NR	NR	NR	NR	NR	0	
RAATS	TP		NR	NR	NR	NR	NR	0	
PRP	TP		NR	NR	NR	NR	NR	0	
PADS	TP		NR	NR	NR	NR	NR	0	
ICIS	TP		NR	NR	NR	NR	NR	0	
FTTS	TP		NR	NR	NR	NR	NR	0	
MLTS	TP		NR	NR	NR	NR	NR	0	
COAL ASH DOE	TP		NR	NR	NR	NR	NR	0	
COAL ASH EPA	0.500		0	0	0	NR	NR	0	
PCB TRANSFORMER	TP TP		NR	NR	NR	NR	NR	0	
RADINFO HIST FTTS	TP		NR NR	NR NR	NR NR	NR NR	NR NR	0	
DOT OPS	TP		NR NR	NR NR	NR NR	NR NR	NR NR	0 0	
CONSENT	1.000		0	0	0	0	NR	0	
INDIAN RESERV	1.000		0	0	0	0	NR	0	
UMTRA	0.500		0	Ö	ő	NR	NR	0	
LEAD SMELTERS	TP		NR	NR	NR	NR	NR	Ö	
US AIRS	TP		NR	NR	NR	NR	NR	Ō	
US MINES	0.250		0	0	NR	NR	NR	0	
FINDS	TP		NR	NR	NR	NR	NR	0	
AIRS	TP		NR	NR	NR	NR	NR	0	
COAL ASH	0.500		0	0	0	NR	NR	0	
DRYCLEANERS	0.250		0	0	NR	NR	NR	0	
Financial Assurance	TP		NR	NR	NR	NR	NR	0	
NPDES	TP		NR	NR	NR	NR	NR	0	
TIER 2	TP		NR	NR	NR	NR	NR	0	
EDR HIGH RISK HISTORICAL RECORDS									
EDR Exclusive Records									
EDR MGP	1.000		0	0	0	0	NR	0	
EDR US Hist Auto Stat	0.250		0	0	NR	NR	NR	0	
EDR US Hist Cleaners	0.250		0	0	NR	NR	NR	0	
EDR RECOVERED GOVERI	NMENT ARCHIV	VES							
Exclusive Recovered Go	out Archives								
				–					
RGA HWS	TP		NR	NR	NR	NR	NR	0	
RGA LUST	TP		NR	NR	NR	NR	NR	0	
- Totals		0	0	1	1	0	0	2	

NOTES:

TP = Target Property

NR = Not Requested at this Search Distance

Sites may be listed in more than one database

Map ID MAP FINDINGS

Direction Distance

Elevation Site Database(s) EPA ID Number

AST A100374997 SW 887 WEST SHAULIS RD. N/A

SSW 887 WEST SHAULIS RD. 1/8-1/4 WATERLOO, IA

0.128 mi. 675 ft.

Relative: AST:

Higher Key: 343

Owners Name: Not reported

Actual: Owners Address: Not reported

974 ft. Owners City,St,Zip: Not reported

Tank Key Num: Not reported

Registration Number: 4084

Year Of Manufacture (age): Not reported

 Size:
 8000

 Type:
 Steel

 Contents:
 200

 Plan Date:
 04/26/1990

 Registration Date:
 02/10/2005

 Plan Number:
 Not reported

 Out of Service Date:
 9/6/2005

Amount Received: 10

Date Received: 09/12/2002

2 CASEY'S GENERAL STORE #2866 LUST U003640701
ENE 51 E TOWER PARK DR UST N/A
1/4-1/2 WATERLOO, IA 50704 Financial Assurance

6602

Not reported

1/4-1/2 0.463 mi. 2447 ft.

Relative: LUST:
Lower Facility ID:

Spill Number: Not reported

Actual: Occur Date: Not reported

920 ft. Discover Date: 04/22/2014

Discover Time: Not reported

Date Occurred Time:

Discover Time: Not reported Record Date: 08/04/2014 Leak Number: 9LTQ81 Loc ID: 85427 Ust ID: 17484 Latitude: 42.45696 Longitude: -92.35555 Start Date: 08/05/2014 Spill Date: Not reported

Lead ID:4Coordinator ID:6983Staff ID:7119Discover Method ID:Not reportedLeak Status:Not reported

Tanks Removed: 0

Created Date: 08/05/2014
Created By: Garrison.Bonnie
Last Changed: 08/05/2014
Changed By: Hummel.Ruth

UST:

Facility Id: 17484

EDR ID Number

Map ID MAP FINDINGS

Direction Distance

Elevation Site Database(s) EPA ID Number

CASEY'S GENERAL STORE #2866 (Continued)

U003640701

EDR ID Number

Loc Id: 17484
Registration: 199717965

Owner Type: 6 Financial Code: 01

Insurer's Name: CASEY S MARKETING CO

Policy Number: Not reported Policy Start Date: 08/20/2014 Policy End Date: 08/20/2015 Registration Sign Date: 09/09/1997 Created By: migration Created Date: 01/08/2007 Changed By: Nelson.Paul Last Changed: 12/23/2014 Latitude: 42.45697 Longitude: -92.35556

Tank Info:

Tank Num: 42937
In Use: True
Tank Type: 6
Tank Brand Id: 4

Inert Material Id: Not reported
Filled In Place: False
Material Construction: FRP
Emergency Power Gen: False

 Tank Num:
 42938

 In Use:
 True

 Tank Type:
 6

 Tank Brand Id:
 4

Inert Material Id: Not reported Filled In Place: False Material Construction: FRP Emergency Power Gen: False

IA Financial Assurance 1:

Facility ID: 199717965

Insurers Name: CASEY S MARKETING CO

Policy End Date: 08/20/2015 Site Status: Not reported

Financial Code: 01

Policy Number: Not reported Policy Start Date: 08/20/2014

Count: 0 records. ORPHAN SUMMARY

City EDR ID Site Name Site Address Zip Database(s)

NO SITES FOUND

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

To maintain currency of the following federal and state databases, EDR contacts the appropriate governmental agency on a monthly or quarterly basis, as required.

Number of Days to Update: Provides confirmation that EDR is reporting records that have been updated within 90 days from the date the government agency made the information available to the public.

STANDARD ENVIRONMENTAL RECORDS

Federal NPL site list

NPL: National Priority List

National Priorities List (Superfund). The NPL is a subset of CERCLIS and identifies over 1,200 sites for priority cleanup under the Superfund Program. NPL sites may encompass relatively large areas. As such, EDR provides polygon coverage for over 1,000 NPL site boundaries produced by EPA's Environmental Photographic Interpretation Center (EPIC) and regional EPA offices.

Date of Government Version: 03/26/2015 Source: EPA
Date Data Arrived at EDR: 04/08/2015 Telephone: N/A

Number of Days to Update: 75 Next Scheduled EDR Contact: 10/19/2015
Data Release Frequency: Quarterly

NPL Site Boundaries

Sources

EPA's Environmental Photographic Interpretation Center (EPIC)

Telephone: 202-564-7333

EPA Region 1 EPA Region 6

Telephone 617-918-1143 Telephone: 214-655-6659

EPA Region 3 EPA Region 7

Telephone 215-814-5418 Telephone: 913-551-7247

EPA Region 4 EPA Region 8

Telephone 404-562-8033 Telephone: 303-312-6774

EPA Region 5 EPA Region 9

Telephone 312-886-6686 Telephone: 415-947-4246

EPA Region 10

Telephone 206-553-8665

Proposed NPL: Proposed National Priority List Sites

A site that has been proposed for listing on the National Priorities List through the issuance of a proposed rule in the Federal Register. EPA then accepts public comments on the site, responds to the comments, and places on the NPL those sites that continue to meet the requirements for listing.

Date of Government Version: 03/26/2015 Source: EPA
Date Data Arrived at EDR: 04/08/2015 Telephone: N/A

Number of Days to Update: 75 Next Scheduled EDR Contact: 10/19/2015
Data Release Frequency: Quarterly

NPL LIENS: Federal Superfund Liens

Federal Superfund Liens. Under the authority granted the USEPA by CERCLA of 1980, the USEPA has the authority to file liens against real property in order to recover remedial action expenditures or when the property owner received notification of potential liability. USEPA compiles a listing of filed notices of Superfund Liens.

Source: EPA

Date of Government Version: 10/15/1991 Date Data Arrived at EDR: 02/02/1994 Date Made Active in Reports: 03/30/1994

Number of Days to Update: 56

Telephone: 202-564-4267 Last EDR Contact: 08/15/2011

Next Scheduled EDR Contact: 11/28/2011 Data Release Frequency: No Update Planned

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Federal Delisted NPL site list

Delisted NPL: National Priority List Deletions

The National Oil and Hazardous Substances Pollution Contingency Plan (NCP) establishes the criteria that the EPA uses to delete sites from the NPL. In accordance with 40 CFR 300.425.(e), sites may be deleted from the NPL where no further response is appropriate.

Date of Government Version: 03/26/2015 Date Data Arrived at EDR: 04/08/2015 Date Made Active in Reports: 06/22/2015

Number of Days to Update: 75

Source: EPA Telephone: N/A

Last EDR Contact: 07/09/2015

Next Scheduled EDR Contact: 10/19/2015 Data Release Frequency: Quarterly

Federal CERCLIS list

FEDERAL FACILITY: Federal Facility Site Information listing

A listing of National Priority List (NPL) and Base Realignment and Closure (BRAC) sites found in the Comprehensive Environmental Response, Compensation and Liability Information System (CERCLIS) Database where EPA Federal Facilities Restoration and Reuse Office is involved in cleanup activities.

Date of Government Version: 03/26/2015 Date Data Arrived at EDR: 04/08/2015 Date Made Active in Reports: 06/11/2015

Number of Days to Update: 64

Source: Environmental Protection Agency

Telephone: 703-603-8704 Last EDR Contact: 07/10/2015

Next Scheduled EDR Contact: 10/19/2015 Data Release Frequency: Varies

CERCLIS: Comprehensive Environmental Response, Compensation, and Liability Information System

CERCLIS contains data on potentially hazardous waste sites that have been reported to the USEPA by states, municipalities, private companies and private persons, pursuant to Section 103 of the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA). CERCLIS contains sites which are either proposed to or on the National Priorities List (NPL) and sites which are in the screening and assessment phase for possible inclusion on the NPL.

Date of Government Version: 10/25/2013 Date Data Arrived at EDR: 11/11/2013 Date Made Active in Reports: 02/13/2014

Number of Days to Update: 94

Source: EPA Telephone: 703-412-9810

Last EDR Contact: 05/29/2015

Next Scheduled EDR Contact: 09/07/2015 Data Release Frequency: Quarterly

Federal CERCLIS NFRAP site List

CERCLIS-NFRAP: CERCLIS No Further Remedial Action Planned

Archived sites are sites that have been removed and archived from the inventory of CERCLIS sites. Archived status indicates that, to the best of EPA's knowledge, assessment at a site has been completed and that EPA has determined no further steps will be taken to list this site on the National Priorities List (NPL), unless information indicates this decision was not appropriate or other considerations require a recommendation for listing at a later time. This decision does not necessarily mean that there is no hazard associated with a given site; it only means that, based upon available information, the location is not judged to be a potential NPL site.

Date of Government Version: 10/25/2013 Date Data Arrived at EDR: 11/11/2013 Date Made Active in Reports: 02/13/2014

Number of Days to Update: 94

Source: EPA

Telephone: 703-412-9810 Last EDR Contact: 05/29/2015

Next Scheduled EDR Contact: 09/07/2015 Data Release Frequency: Quarterly

Federal RCRA CORRACTS facilities list

CORRACTS: Corrective Action Report

CORRACTS identifies hazardous waste handlers with RCRA corrective action activity.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 06/09/2015 Date Data Arrived at EDR: 06/26/2015 Date Made Active in Reports: 09/16/2015

Number of Days to Update: 82

Source: EPA

Telephone: 800-424-9346 Last EDR Contact: 06/26/2015

Next Scheduled EDR Contact: 10/12/2015 Data Release Frequency: Quarterly

Federal RCRA non-CORRACTS TSD facilities list

RCRA-TSDF: RCRA - Treatment, Storage and Disposal

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Transporters are individuals or entities that move hazardous waste from the generator offsite to a facility that can recycle, treat, store, or dispose of the waste. TSDFs treat, store, or dispose of the waste.

Date of Government Version: 06/09/2015 Date Data Arrived at EDR: 06/26/2015 Date Made Active in Reports: 09/16/2015

Number of Days to Update: 82

Source: Environmental Protection Agency

Telephone: 913-551-7003 Last EDR Contact: 06/26/2015

Next Scheduled EDR Contact: 10/12/2015 Data Release Frequency: Quarterly

Federal RCRA generators list

RCRA-LQG: RCRA - Large Quantity Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Large quantity generators (LQGs) generate over 1,000 kilograms (kg) of hazardous waste, or over 1 kg of acutely hazardous waste per month.

Date of Government Version: 06/09/2015 Date Data Arrived at EDR: 06/26/2015 Date Made Active in Reports: 09/16/2015

Number of Days to Update: 82

Source: Environmental Protection Agency

Telephone: 913-551-7003 Last EDR Contact: 06/26/2015

Next Scheduled EDR Contact: 10/12/2015 Data Release Frequency: Quarterly

RCRA-SQG: RCRA - Small Quantity Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Small quantity generators (SQGs) generate between 100 kg and 1,000 kg of hazardous waste per month.

Date of Government Version: 06/09/2015 Date Data Arrived at EDR: 06/26/2015 Date Made Active in Reports: 09/16/2015

Number of Days to Update: 82

Source: Environmental Protection Agency

Telephone: 913-551-7003 Last EDR Contact: 06/26/2015

Next Scheduled EDR Contact: 10/12/2015 Data Release Frequency: Quarterly

RCRA-CESQG: RCRA - Conditionally Exempt Small Quantity Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Conditionally exempt small quantity generators (CESQGs) generate less than 100 kg of hazardous waste, or less than 1 kg of acutely hazardous waste per month.

Date of Government Version: 06/09/2015 Date Data Arrived at EDR: 06/26/2015 Date Made Active in Reports: 09/16/2015

Number of Days to Update: 82

Source: Environmental Protection Agency

Telephone: 913-551-7003 Last EDR Contact: 06/26/2015

Next Scheduled EDR Contact: 10/12/2015 Data Release Frequency: Varies

Federal institutional controls / engineering controls registries

LUCIS: Land Use Control Information System

LUCIS contains records of land use control information pertaining to the former Navy Base Realignment and Closure properties.

Date of Government Version: 05/28/2015 Date Data Arrived at EDR: 05/29/2015 Date Made Active in Reports: 06/11/2015

Number of Days to Update: 13

Source: Department of the Navy Telephone: 843-820-7326 Last EDR Contact: 08/12/2015

Next Scheduled EDR Contact: 11/30/2015 Data Release Frequency: Varies

US ENG CONTROLS: Engineering Controls Sites List

A listing of sites with engineering controls in place. Engineering controls include various forms of caps, building foundations, liners, and treatment methods to create pathway elimination for regulated substances to enter environmental media or effect human health.

Date of Government Version: 06/09/2015 Date Data Arrived at EDR: 06/26/2015 Date Made Active in Reports: 09/02/2015

Number of Days to Update: 68

Source: Environmental Protection Agency

Telephone: 703-603-0695 Last EDR Contact: 08/31/2015

Next Scheduled EDR Contact: 12/14/2015 Data Release Frequency: Varies

US INST CONTROL: Sites with Institutional Controls

A listing of sites with institutional controls in place. Institutional controls include administrative measures, such as groundwater use restrictions, construction restrictions, property use restrictions, and post remediation care requirements intended to prevent exposure to contaminants remaining on site. Deed restrictions are generally required as part of the institutional controls.

Date of Government Version: 06/09/2015 Date Data Arrived at EDR: 06/26/2015 Date Made Active in Reports: 09/02/2015

Number of Days to Update: 68

Source: Environmental Protection Agency

Telephone: 703-603-0695 Last EDR Contact: 08/31/2015

Next Scheduled EDR Contact: 12/14/2015 Data Release Frequency: Varies

Federal ERNS list

ERNS: Emergency Response Notification System

Emergency Response Notification System. ERNS records and stores information on reported releases of oil and hazardous substances.

Date of Government Version: 06/22/2015 Date Data Arrived at EDR: 06/26/2015 Date Made Active in Reports: 09/16/2015

Number of Days to Update: 82

Source: National Response Center, United States Coast Guard

Telephone: 202-267-2180 Last EDR Contact: 06/26/2015

Next Scheduled EDR Contact: 10/12/2015 Data Release Frequency: Annually

State- and tribal - equivalent CERCLIS

SHWS: Registry of Hazardous Waste or Hazardous Substance Disposal Sites

State Hazardous Waste Sites. State hazardous waste site records are the states' equivalent to CERCLIS. These sites may or may not already be listed on the federal CERCLIS list. Priority sites planned for cleanup using state funds (state equivalent of Superfund) are identified along with sites where cleanup will be paid for by potentially responsible parties. Available information varies by state.

Date of Government Version: 12/31/2014 Date Data Arrived at EDR: 01/23/2015 Date Made Active in Reports: 02/19/2015

Number of Days to Update: 27

Source: Department of Natural Resources

Telephone: 515-281-8801 Last EDR Contact: 07/21/2015

Next Scheduled EDR Contact: 11/02/2015 Data Release Frequency: Annually

State and tribal landfill and/or solid waste disposal site lists

SWF/LF: Permitted Solid Waste Management Facilities

Solid Waste Facilities/Landfill Sites. SWF/LF type records typically contain an inventory of solid waste disposal facilities or landfills in a particular state. Depending on the state, these may be active or inactive facilities or open dumps that failed to meet RCRA Subtitle D Section 4004 criteria for solid waste landfills or disposal sites.

Date of Government Version: 06/08/2015 Date Data Arrived at EDR: 06/10/2015 Date Made Active in Reports: 07/20/2015

Number of Days to Update: 40

Source: Department of Natural Resources

Telephone: 515-281-8801 Last EDR Contact: 06/10/2015

Next Scheduled EDR Contact: 09/21/2015 Data Release Frequency: Quarterly

State and tribal leaking storage tank lists

LAST: Leaking Aboveground Storage Tank Sites
A listing of leaking aboveground storage tank sites.

Date of Government Version: 07/18/2015 Date Data Arrived at EDR: 07/20/2015 Date Made Active in Reports: 08/06/2015

Number of Days to Update: 17

Source: Department of Natural Resources

Telephone: 515-281-6001 Last EDR Contact: 07/15/2015

Next Scheduled EDR Contact: 11/02/2015 Data Release Frequency: Quarterly

LUST: Leaking Underground Storage Tank Data

Leaking Underground Storage Tank Incident Reports. LUST records contain an inventory of reported leaking underground storage tank incidents. Not all states maintain these records, and the information stored varies by state.

Date of Government Version: 06/12/2015 Date Data Arrived at EDR: 06/25/2015 Date Made Active in Reports: 07/20/2015

Number of Days to Update: 25

Source: Department of Natural Resources

Telephone: 515-281-6001 Last EDR Contact: 06/21/2015

Next Scheduled EDR Contact: 09/21/2015 Data Release Frequency: Quarterly

INDIAN LUST R1: Leaking Underground Storage Tanks on Indian Land A listing of leaking underground storage tank locations on Indian Land.

Date of Government Version: 02/03/2015 Date Data Arrived at EDR: 04/30/2015 Date Made Active in Reports: 06/22/2015

Number of Days to Update: 53

Source: EPA Region 1 Telephone: 617-918-1313 Last EDR Contact: 07/31/2015

Next Scheduled EDR Contact: 11/09/2015 Data Release Frequency: Varies

INDIAN LUST R7: Leaking Underground Storage Tanks on Indian Land

LUSTs on Indian land in Iowa, Kansas, and Nebraska

Date of Government Version: 03/30/2015 Date Data Arrived at EDR: 04/28/2015 Date Made Active in Reports: 06/22/2015

Number of Days to Update: 55

Source: EPA Region 7 Telephone: 913-551-7003 Last EDR Contact: 07/22/2015

Next Scheduled EDR Contact: 11/09/2015 Data Release Frequency: Varies

INDIAN LUST R9: Leaking Underground Storage Tanks on Indian Land LUSTs on Indian land in Arizona, California, New Mexico and Nevada

Date of Government Version: 01/08/2015 Date Data Arrived at EDR: 01/08/2015 Date Made Active in Reports: 02/09/2015

Number of Days to Update: 32

Source: Environmental Protection Agency

Telephone: 415-972-3372 Last EDR Contact: 07/31/2015

Next Scheduled EDR Contact: 11/09/2015 Data Release Frequency: Quarterly

INDIAN LUST R5: Leaking Underground Storage Tanks on Indian Land

Leaking underground storage tanks located on Indian Land in Michigan, Minnesota and Wisconsin.

Date of Government Version: 07/28/2015 Date Data Arrived at EDR: 08/07/2015 Date Made Active in Reports: 10/13/2015

Number of Days to Update: 67

Source: EPA, Region 5 Telephone: 312-886-7439 Last EDR Contact: 07/22/2015

Next Scheduled EDR Contact: 11/09/2015 Data Release Frequency: Varies

INDIAN LUST R6: Leaking Underground Storage Tanks on Indian Land

LUSTs on Indian land in New Mexico and Oklahoma.

Date of Government Version: 05/13/2015 Date Data Arrived at EDR: 08/03/2015 Date Made Active in Reports: 10/13/2015

Number of Days to Update: 71

Source: EPA Region 6 Telephone: 214-665-6597 Last EDR Contact: 07/22/2015

Next Scheduled EDR Contact: 11/09/2015 Data Release Frequency: Varies

INDIAN LUST R10: Leaking Underground Storage Tanks on Indian Land LUSTs on Indian land in Alaska, Idaho, Oregon and Washington.

Date of Government Version: 07/21/2015 Date Data Arrived at EDR: 07/29/2015 Date Made Active in Reports: 10/13/2015

Number of Days to Update: 76

Source: EPA Region 10 Telephone: 206-553-2857 Last EDR Contact: 07/22/2015

Next Scheduled EDR Contact: 11/09/2015 Data Release Frequency: Quarterly

INDIAN LUST R4: Leaking Underground Storage Tanks on Indian Land LUSTs on Indian land in Florida, Mississippi and North Carolina.

Date of Government Version: 07/30/2015 Date Data Arrived at EDR: 08/07/2015 Date Made Active in Reports: 10/13/2015

Number of Days to Update: 67

Source: EPA Region 4 Telephone: 404-562-8677 Last EDR Contact: 07/22/2015

Next Scheduled EDR Contact: 11/09/2015 Data Release Frequency: Semi-Annually

INDIAN LUST R8: Leaking Underground Storage Tanks on Indian Land

LUSTs on Indian land in Colorado, Montana, North Dakota, South Dakota, Utah and Wyoming.

Date of Government Version: 04/30/2015 Date Data Arrived at EDR: 05/05/2015 Date Made Active in Reports: 06/22/2015

Number of Days to Update: 48

Source: EPA Region 8 Telephone: 303-312-6271 Last EDR Contact: 07/22/2015

Next Scheduled EDR Contact: 11/09/2015 Data Release Frequency: Quarterly

State and tribal registered storage tank lists

FEMA UST: Underground Storage Tank Listing

A listing of all FEMA owned underground storage tanks.

Date of Government Version: 01/01/2010 Date Data Arrived at EDR: 02/16/2010 Date Made Active in Reports: 04/12/2010

Number of Days to Update: 55

Source: FEMA

Telephone: 202-646-5797 Last EDR Contact: 07/10/2015

Next Scheduled EDR Contact: 10/28/2015 Data Release Frequency: Varies

UST: Underground Storage Tank Data

Registered Underground Storage Tanks. UST's are regulated under Subtitle I of the Resource Conservation and Recovery Act (RCRA) and must be registered with the state department responsible for administering the UST program. Available information varies by state program.

Date of Government Version: 06/12/2015 Date Data Arrived at EDR: 06/25/2015 Date Made Active in Reports: 07/20/2015

Number of Days to Update: 25

Source: Department of Natural Resources

Telephone: 515-281-6001 Last EDR Contact: 06/21/2015

Next Scheduled EDR Contact: 09/21/2015 Data Release Frequency: Quarterly

AST: Aboveground Storage Tank Sites

Bulk fuel facilities, commercial fuel operations, private farm sites, and any other storage facility that meets the Department of Public Safety?s registration criteria. They register any class I, II or III petroleum product

(gas, diesel and oil) above 1,100 gallons.

Date of Government Version: 06/25/2015 Date Data Arrived at EDR: 06/30/2015 Date Made Active in Reports: 07/20/2015

Number of Days to Update: 20

Source: Department of Public Safety Telephone: 515-281-5821

Last EDR Contact: 06/22/2015

Next Scheduled EDR Contact: 10/12/2015

Data Release Frequency: Varies

INDIAN UST R4: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 4 (Alabama, Florida, Georgia, Kentucky, Mississippi, North Carolina, South Carolina, Tennessee

and Tribal Nations)

Date of Government Version: 07/30/2015 Date Data Arrived at EDR: 08/07/2015 Date Made Active in Reports: 10/13/2015

Number of Days to Update: 67

Source: EPA Region 4 Telephone: 404-562-9424 Last EDR Contact: 07/22/2015

Next Scheduled EDR Contact: 11/09/2015 Data Release Frequency: Semi-Annually

INDIAN UST R6: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 6 (Louisiana, Arkansas, Oklahoma, New Mexico, Texas and 65 Tribes).

Date of Government Version: 05/13/2015 Date Data Arrived at EDR: 08/03/2015 Date Made Active in Reports: 10/13/2015

Number of Days to Update: 71

Source: EPA Region 6 Telephone: 214-665-7591 Last EDR Contact: 07/22/2015

Next Scheduled EDR Contact: 11/09/2015 Data Release Frequency: Semi-Annually

INDIAN UST R8: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 8 (Colorado, Montana, North Dakota, South Dakota, Utah, Wyoming and 27 Tribal Nations).

Date of Government Version: 07/28/2015 Date Data Arrived at EDR: 08/14/2015 Date Made Active in Reports: 10/13/2015

Number of Days to Update: 60

Source: EPA Region 8 Telephone: 303-312-6137 Last EDR Contact: 07/22/2015

Next Scheduled EDR Contact: 11/09/2015 Data Release Frequency: Quarterly

INDIAN UST R9: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 9 (Arizona, California, Hawaii, Nevada, the Pacific Islands, and Tribal Nations).

Date of Government Version: 12/14/2014 Date Data Arrived at EDR: 02/13/2015 Date Made Active in Reports: 03/13/2015

Number of Days to Update: 28

Source: EPA Region 9 Telephone: 415-972-3368 Last EDR Contact: 07/31/2015

Next Scheduled EDR Contact: 11/09/2015 Data Release Frequency: Quarterly

INDIAN UST R7: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 7 (Iowa, Kansas, Missouri, Nebraska, and 9 Tribal Nations).

Date of Government Version: 09/23/2014 Date Data Arrived at EDR: 11/25/2014 Date Made Active in Reports: 01/29/2015

Number of Days to Update: 65

Source: EPA Region 7 Telephone: 913-551-7003 Last EDR Contact: 07/22/2015

Next Scheduled EDR Contact: 11/09/2015 Data Release Frequency: Varies

INDIAN UST R10: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 10 (Alaska, Idaho, Oregon, Washington, and Tribal Nations).

Date of Government Version: 07/21/2015 Date Data Arrived at EDR: 07/29/2015 Date Made Active in Reports: 10/13/2015

Number of Days to Update: 76

Source: EPA Region 10 Telephone: 206-553-2857 Last EDR Contact: 07/22/2015

Next Scheduled EDR Contact: 11/09/2015 Data Release Frequency: Quarterly

INDIAN UST R1: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 1 (Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, Vermont and ten Tribal Nations).

Date of Government Version: 02/03/2015 Date Data Arrived at EDR: 04/30/2015 Date Made Active in Reports: 06/22/2015

Number of Days to Update: 53

Source: EPA, Region 1 Telephone: 617-918-1313 Last EDR Contact: 07/31/2015

Next Scheduled EDR Contact: 11/09/2015 Data Release Frequency: Varies

INDIAN UST R5: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 5 (Michigan, Minnesota and Wisconsin and Tribal Nations).

Date of Government Version: 07/28/2015 Date Data Arrived at EDR: 08/07/2015 Date Made Active in Reports: 10/13/2015

Number of Days to Update: 67

Source: EPA Region 5 Telephone: 312-886-6136 Last EDR Contact: 07/22/2015

Next Scheduled EDR Contact: 11/09/2015 Data Release Frequency: Varies

State and tribal institutional control / engineering control registries

INST CONTROL: Sites with Institutional Controls

Sites currently enrolled in the Land Recycling Program that have Institutional Controls.

Date of Government Version: 07/21/2015 Date Data Arrived at EDR: 07/21/2015 Date Made Active in Reports: 08/06/2015

Number of Days to Update: 16

Source: Department of Natural Resources

Telephone: 515-242-5818 Last EDR Contact: 07/21/2015

Next Scheduled EDR Contact: 11/02/2015 Data Release Frequency: Varies

State and tribal voluntary cleanup sites

INDIAN VCP R1: Voluntary Cleanup Priority Listing

A listing of voluntary cleanup priority sites located on Indian Land located in Region 1.

Date of Government Version: 09/29/2014 Date Data Arrived at EDR: 10/01/2014 Date Made Active in Reports: 11/06/2014

Number of Days to Update: 36

Source: EPA, Region 1 Telephone: 617-918-1102 Last EDR Contact: 06/26/2015

Next Scheduled EDR Contact: 10/12/2015 Data Release Frequency: Varies

INDIAN VCP R7: Voluntary Cleanup Priority Lisitng

A listing of voluntary cleanup priority sites located on Indian Land located in Region 7.

Date of Government Version: 03/20/2008 Date Data Arrived at EDR: 04/22/2008 Date Made Active in Reports: 05/19/2008

Number of Days to Update: 27

Source: EPA, Region 7 Telephone: 913-551-7365 Last EDR Contact: 04/20/2009

Next Scheduled EDR Contact: 07/20/2009 Data Release Frequency: Varies

VCP: Land Recycling Program Sites

Sites currently enrolled in the Land Recycling Program.

Date of Government Version: 07/18/2015 Date Data Arrived at EDR: 07/20/2015 Date Made Active in Reports: 08/06/2015

Number of Days to Update: 17

Source: Department of Natural Resources

Telephone: 515-242-5818 Last EDR Contact: 07/15/2015

Next Scheduled EDR Contact: 11/02/2015 Data Release Frequency: Varies

State and tribal Brownfields sites

BROWNFIELDS: Brownfields Site Listing

Brownfields are abandoned, idled, or under-used industrial and commercial facilities where expansion or redevelopment is complicated by real or perceived environmental contamination.

Date of Government Version: 07/18/2015 Date Data Arrived at EDR: 07/20/2015 Date Made Active in Reports: 08/06/2015

Number of Days to Update: 17

Source: Department of Natural Resources

Telephone: 515-281-8489 Last EDR Contact: 07/15/2015

Next Scheduled EDR Contact: 11/02/2015 Data Release Frequency: Quarterly

ADDITIONAL ENVIRONMENTAL RECORDS

Local Brownfield lists

US BROWNFIELDS: A Listing of Brownfields Sites

Brownfields are real property, the expansion, redevelopment, or reuse of which may be complicated by the presence or potential presence of a hazardous substance, pollutant, or contaminant. Cleaning up and reinvesting in these properties takes development pressures off of undeveloped, open land, and both improves and protects the environment. Assessment, Cleanup and Redevelopment Exchange System (ACRES) stores information reported by EPA Brownfields grant recipients on brownfields properties assessed or cleaned up with grant funding as well as information on Targeted Brownfields Assessments performed by EPA Regions. A listing of ACRES Brownfield sites is obtained from Cleanups in My Community. Cleanups in My Community provides information on Brownfields properties for which information is reported back to EPA, as well as areas served by Brownfields grant programs.

Date of Government Version: 06/22/2015 Date Data Arrived at EDR: 06/24/2015 Date Made Active in Reports: 09/02/2015

Number of Days to Update: 70

Source: Environmental Protection Agency

Telephone: 202-566-2777 Last EDR Contact: 06/24/2015

Next Scheduled EDR Contact: 10/05/2015 Data Release Frequency: Semi-Annually

Local Lists of Landfill / Solid Waste Disposal Sites

INDIAN ODI: Report on the Status of Open Dumps on Indian Lands Location of open dumps on Indian land.

Date of Government Version: 12/31/1998 Date Data Arrived at EDR: 12/03/2007 Date Made Active in Reports: 01/24/2008

Number of Days to Update: 52

Source: Environmental Protection Agency

Telephone: 703-308-8245 Last EDR Contact: 05/01/2015

Next Scheduled EDR Contact: 08/17/2015 Data Release Frequency: Varies

DEBRIS REGION 9: Torres Martinez Reservation Illegal Dump Site Locations

A listing of illegal dump sites location on the Torres Martinez Indian Reservation located in eastern Riverside County and northern Imperial County, California.

Date of Government Version: 01/12/2009 Date Data Arrived at EDR: 05/07/2009 Date Made Active in Reports: 09/21/2009

Number of Days to Update: 137

Source: EPA, Region 9 Telephone: 415-947-4219 Last EDR Contact: 07/22/2015

Next Scheduled EDR Contact: 11/09/2015 Data Release Frequency: No Update Planned

ODI: Open Dump Inventory

An open dump is defined as a disposal facility that does not comply with one or more of the Part 257 or Part 258 Subtitle D Criteria.

Date of Government Version: 06/30/1985 Date Data Arrived at EDR: 08/09/2004 Date Made Active in Reports: 09/17/2004

Number of Days to Update: 39

Source: Environmental Protection Agency

Telephone: 800-424-9346 Last EDR Contact: 06/09/2004 Next Scheduled EDR Contact: N/A

Data Release Frequency: No Update Planned

Local Lists of Hazardous waste / Contaminated Sites

US HIST CDL: National Clandestine Laboratory Register

A listing of clandestine drug lab locations. The U.S. Department of Justice ("the Department") provides this web site as a public service. It contains addresses of some locations where law enforcement agencies reported they found chemicals or other items that indicated the presence of either clandestine drug laboratories or dumpsites. In most cases, the source of the entries is not the Department, and the Department has not verified the entry and does not guarantee its accuracy. Members of the public must verify the accuracy of all entries by, for example, contacting local law enforcement and local health departments.

Date of Government Version: 06/01/2015 Date Data Arrived at EDR: 06/02/2015 Date Made Active in Reports: 09/16/2015

Number of Days to Update: 106

Source: Drug Enforcement Administration

Telephone: 202-307-1000 Last EDR Contact: 08/31/2015

Next Scheduled EDR Contact: 12/14/2015 Data Release Frequency: No Update Planned

ALLSITES: Contaminated Sites Tracking Database

All the sites included in the Contaminated Sites Tracking Database. The database includes several regulatory complinace programs and actions.

Date of Government Version: 07/18/2015 Date Data Arrived at EDR: 07/20/2015 Date Made Active in Reports: 08/06/2015

Number of Days to Update: 17

Source: Department of Natural Resources

Telephone: 515-281-4171 Last EDR Contact: 07/15/2015

Next Scheduled EDR Contact: 11/02/2015 Data Release Frequency: Quarterly

DEL SHWS: Delisted Contaminated Sites Listing

A listing of sites delisted from the Contaminated Sites Listing.

Date of Government Version: 12/31/2013 Date Data Arrived at EDR: 04/21/2014 Date Made Active in Reports: 05/05/2014

Number of Days to Update: 14

Source: Department of Natural Resources

Telephone: 515-281-8801 Last EDR Contact: 07/21/2015

Next Scheduled EDR Contact: 11/02/2015 Data Release Frequency: Annually

US CDL: Clandestine Drug Labs

A listing of clandestine drug lab locations. The U.S. Department of Justice ("the Department") provides this web site as a public service. It contains addresses of some locations where law enforcement agencies reported they found chemicals or other items that indicated the presence of either clandestine drug laboratories or dumpsites. In most cases, the source of the entries is not the Department, and the Department has not verified the entry and does not guarantee its accuracy. Members of the public must verify the accuracy of all entries by, for example, contacting local law enforcement and local health departments.

Date of Government Version: 05/15/2015 Date Data Arrived at EDR: 06/02/2015 Date Made Active in Reports: 09/16/2015

Number of Days to Update: 106

Source: Drug Enforcement Administration

Telephone: 202-307-1000 Last EDR Contact: 08/31/2015

Next Scheduled EDR Contact: 12/14/2015 Data Release Frequency: Quarterly

Local Land Records

LIENS: Liens Filed Listing

A listing of liens filed with the Iowa Comprehensive Petroleum Underground Storage Tank Fund.

Date of Government Version: 07/27/2015 Date Data Arrived at EDR: 07/28/2015 Date Made Active in Reports: 08/19/2015

Number of Days to Update: 22

Source: Department of Natural Resources

Telephone: 515-281-5523 Last EDR Contact: 07/24/2015

Next Scheduled EDR Contact: 11/09/2015 Data Release Frequency: Varies

LIENS 2: CERCLA Lien Information

A Federal CERCLA ('Superfund') lien can exist by operation of law at any site or property at which EPA has spent Superfund monies. These monies are spent to investigate and address releases and threatened releases of contamination. CERCLIS provides information as to the identity of these sites and properties.

Date of Government Version: 02/18/2014 Date Data Arrived at EDR: 03/18/2014 Date Made Active in Reports: 04/24/2014

Number of Days to Update: 37

Source: Environmental Protection Agency

Telephone: 202-564-6023 Last EDR Contact: 07/22/2015

Next Scheduled EDR Contact: 11/09/2015 Data Release Frequency: Varies

Records of Emergency Release Reports

HMIRS: Hazardous Materials Information Reporting System

Hazardous Materials Incident Report System. HMIRS contains hazardous material spill incidents reported to DOT.

Date of Government Version: 06/24/2015 Date Data Arrived at EDR: 06/26/2015 Date Made Active in Reports: 09/02/2015

Number of Days to Update: 68

Source: U.S. Department of Transportation

Telephone: 202-366-4555 Last EDR Contact: 06/26/2015

Next Scheduled EDR Contact: 10/12/2015 Data Release Frequency: Annually

SPILLS: Spills Database

Spill reporting data that is collected during the initial report of an incident.

Date of Government Version: 06/08/2015 Date Data Arrived at EDR: 06/10/2015 Date Made Active in Reports: 07/20/2015

Number of Days to Update: 40

Source: Department of Natural Resources

Telephone: 515-281-4367 Last EDR Contact: 06/10/2015

Next Scheduled EDR Contact: 09/21/2015 Data Release Frequency: Annually

SPILLS 90: SPILLS90 data from FirstSearch

Spills 90 includes those spill and release records available exclusively from FirstSearch databases. Typically, they may include chemical, oil and/or hazardous substance spills recorded after 1990. Duplicate records that are already included in EDR incident and release records are not included in Spills 90.

Date of Government Version: 10/17/2012 Date Data Arrived at EDR: 01/03/2013 Date Made Active in Reports: 03/05/2013

Number of Days to Update: 61

Source: FirstSearch Telephone: N/A

Last EDR Contact: 01/03/2013 Next Scheduled EDR Contact: N/A

Data Release Frequency: No Update Planned

Other Ascertainable Records

RCRA NonGen / NLR: RCRA - Non Generators / No Longer Regulated

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Non-Generators do not presently generate hazardous waste.

Date of Government Version: 06/09/2015 Date Data Arrived at EDR: 06/26/2015 Date Made Active in Reports: 09/16/2015

Number of Days to Update: 82

Source: Environmental Protection Agency

Telephone: 913-551-7003 Last EDR Contact: 06/26/2015

Next Scheduled EDR Contact: 10/12/2015 Data Release Frequency: Varies

FUDS: Formerly Used Defense Sites

The listing includes locations of Formerly Used Defense Sites properties where the US Army Corps of Engineers is actively working or will take necessary cleanup actions.

Date of Government Version: 01/31/2015 Date Data Arrived at EDR: 07/08/2015 Date Made Active in Reports: 10/13/2015

Number of Days to Update: 97

Source: U.S. Army Corps of Engineers

Telephone: 202-528-4285 Last EDR Contact: 09/11/2015

Next Scheduled EDR Contact: 12/21/2015 Data Release Frequency: Varies

DOD: Department of Defense Sites

This data set consists of federally owned or administered lands, administered by the Department of Defense, that have any area equal to or greater than 640 acres of the United States, Puerto Rico, and the U.S. Virgin Islands.

Date of Government Version: 12/31/2005 Date Data Arrived at EDR: 11/10/2006 Date Made Active in Reports: 01/11/2007

Number of Days to Update: 62

Source: USGS

Telephone: 888-275-8747 Last EDR Contact: 07/14/2015

Next Scheduled EDR Contact: 10/28/2015 Data Release Frequency: Semi-Annually

FEDLAND: Federal and Indian Lands

Federally and Indian administrated lands of the United States. Lands included are administrated by: Army Corps of Engineers, Bureau of Reclamation, National Wild and Scenic River, National Wildlife Refuge, Public Domain Land, Wilderness, Wilderness Study Area, Wildlife Management Area, Bureau of Indian Affairs, Bureau of Land Management, Department of Justice, Forest Service, Fish and Wildlife Service, National Park Service.

Date of Government Version: 12/31/2005 Date Data Arrived at EDR: 02/06/2006 Date Made Active in Reports: 01/11/2007

Number of Days to Update: 339

Source: U.S. Geological Survey Telephone: 888-275-8747 Last EDR Contact: 07/14/2015

Next Scheduled EDR Contact: 10/28/2015

Data Release Frequency: N/A

SCRD DRYCLEANERS: State Coalition for Remediation of Drycleaners Listing

The State Coalition for Remediation of Drycleaners was established in 1998, with support from the U.S. EPA Office of Superfund Remediation and Technology Innovation. It is comprised of representatives of states with established drycleaner remediation programs. Currently the member states are Alabama, Connecticut, Florida, Illinois, Kansas, Minnesota, Missouri, North Carolina, Oregon, South Carolina, Tennessee, Texas, and Wisconsin.

Date of Government Version: 03/07/2011 Date Data Arrived at EDR: 03/09/2011 Date Made Active in Reports: 05/02/2011

Number of Days to Update: 54

Source: Environmental Protection Agency

Telephone: 615-532-8599 Last EDR Contact: 05/21/2015

Next Scheduled EDR Contact: 08/31/2015 Data Release Frequency: Varies

US FIN ASSUR: Financial Assurance Information

All owners and operators of facilities that treat, store, or dispose of hazardous waste are required to provide proof that they will have sufficient funds to pay for the clean up, closure, and post-closure care of their facilities.

Date of Government Version: 06/01/2015 Date Data Arrived at EDR: 06/02/2015 Date Made Active in Reports: 09/16/2015

Number of Days to Update: 106

Source: Environmental Protection Agency

Telephone: 202-566-1917 Last EDR Contact: 08/12/2015

Next Scheduled EDR Contact: 11/30/2015 Data Release Frequency: Quarterly

EPA WATCH LIST: EPA WATCH LIST

EPA maintains a "Watch List" to facilitate dialogue between EPA, state and local environmental agencies on enforcement matters relating to facilities with alleged violations identified as either significant or high priority. Being on the Watch List does not mean that the facility has actually violated the law only that an investigation by EPA or a state or local environmental agency has led those organizations to allege that an unproven violation has in fact occurred. Being on the Watch List does not represent a higher level of concern regarding the alleged violations that were detected, but instead indicates cases requiring additional dialogue between EPA, state and local agencies - primarily because of the length of time the alleged violation has gone unaddressed or unresolved.

Date of Government Version: 08/30/2013 Date Data Arrived at EDR: 03/21/2014 Date Made Active in Reports: 06/17/2014

Number of Days to Update: 88

Source: Environmental Protection Agency

Telephone: 617-520-3000 Last EDR Contact: 08/04/2015

Next Scheduled EDR Contact: 11/23/2015 Data Release Frequency: Quarterly

2020 COR ACTION: 2020 Corrective Action Program List

The EPA has set ambitious goals for the RCRA Corrective Action program by creating the 2020 Corrective Action Universe. This RCRA cleanup baseline includes facilities expected to need corrective action. The 2020 universe contains a wide variety of sites. Some properties are heavily contaminated while others were contaminated but have since been cleaned up. Still others have not been fully investigated yet, and may require little or no remediation. Inclusion in the 2020 Universe does not necessarily imply failure on the part of a facility to meet its RCRA obligations.

Date of Government Version: 04/22/2013 Date Data Arrived at EDR: 03/03/2015 Date Made Active in Reports: 03/09/2015

Number of Days to Update: 6

Source: Environmental Protection Agency

Telephone: 703-308-4044 Last EDR Contact: 05/14/2015

Next Scheduled EDR Contact: 08/24/2015 Data Release Frequency: Varies

TSCA: Toxic Substances Control Act

Toxic Substances Control Act. TSCA identifies manufacturers and importers of chemical substances included on the TSCA Chemical Substance Inventory list. It includes data on the production volume of these substances by plant site.

Date of Government Version: 12/31/2012 Date Data Arrived at EDR: 01/15/2015 Date Made Active in Reports: 01/29/2015

Number of Days to Update: 14

Source: EPA

Telephone: 202-260-5521 Last EDR Contact: 06/25/2015

Next Scheduled EDR Contact: 10/05/2015 Data Release Frequency: Every 4 Years

TRIS: Toxic Chemical Release Inventory System

Toxic Release Inventory System. TRIS identifies facilities which release toxic chemicals to the air, water and land in reportable quantities under SARA Title III Section 313.

Date of Government Version: 12/31/2013 Date Data Arrived at EDR: 02/12/2015 Date Made Active in Reports: 06/02/2015

Number of Days to Update: 110

Source: EPA

Telephone: 202-566-0250 Last EDR Contact: 01/29/2015

Next Scheduled EDR Contact: 06/08/2015 Data Release Frequency: Annually

SSTS: Section 7 Tracking Systems

Section 7 of the Federal Insecticide, Fungicide and Rodenticide Act, as amended (92 Stat. 829) requires all registered pesticide-producing establishments to submit a report to the Environmental Protection Agency by March 1st each year. Each establishment must report the types and amounts of pesticides, active ingredients and devices being produced, and those having been produced and sold or distributed in the past year.

Date of Government Version: 12/31/2009 Date Data Arrived at EDR: 12/10/2010 Date Made Active in Reports: 02/25/2011

Number of Days to Update: 77

Source: EPA

Telephone: 202-564-4203 Last EDR Contact: 07/22/2015

Next Scheduled EDR Contact: 11/09/2015 Data Release Frequency: Annually

ROD: Records Of Decision

Record of Decision. ROD documents mandate a permanent remedy at an NPL (Superfund) site containing technical

and health information to aid in the cleanup.

Date of Government Version: 11/25/2013 Date Data Arrived at EDR: 12/12/2013 Date Made Active in Reports: 02/24/2014

Number of Days to Update: 74

Source: EPA

Telephone: 703-416-0223 Last EDR Contact: 06/12/2015

Next Scheduled EDR Contact: 09/21/2015 Data Release Frequency: Annually

RMP: Risk Management Plans

When Congress passed the Clean Air Act Amendments of 1990, it required EPA to publish regulations and guidance for chemical accident prevention at facilities using extremely hazardous substances. The Risk Management Program Rule (RMP Rule) was written to implement Section 112(r) of these amendments. The rule, which built upon existing industry codes and standards, requires companies of all sizes that use certain flammable and toxic substances to develop a Risk Management Program, which includes a(n): Hazard assessment that details the potential effects of an accidental release, an accident history of the last five years, and an evaluation of worst-case and alternative accidental releases; Prevention program that includes safety precautions and maintenance, monitoring, and employee training measures; and Emergency response program that spells out emergency health care, employee training measures and procedures for informing the public and response agencies (e.g the fire department) should an accident occur.

Date of Government Version: 02/01/2015 Date Data Arrived at EDR: 02/13/2015 Date Made Active in Reports: 03/25/2015

Number of Days to Update: 40

Source: Environmental Protection Agency

Telephone: 202-564-8600 Last EDR Contact: 07/22/2015

Next Scheduled EDR Contact: 11/09/2015

Data Release Frequency: Varies

RAATS: RCRA Administrative Action Tracking System

RCRA Administration Action Tracking System. RAATS contains records based on enforcement actions issued under RCRA pertaining to major violators and includes administrative and civil actions brought by the EPA. For administration actions after September 30, 1995, data entry in the RAATS database was discontinued. EPA will retain a copy of the database for historical records. It was necessary to terminate RAATS because a decrease in agency resources made it impossible to continue to update the information contained in the database.

Date of Government Version: 04/17/1995 Date Data Arrived at EDR: 07/03/1995 Date Made Active in Reports: 08/07/1995

Number of Days to Update: 35

Source: EPA

Telephone: 202-564-4104 Last EDR Contact: 06/02/2008

Next Scheduled EDR Contact: 09/01/2008 Data Release Frequency: No Update Planned

PRP: Potentially Responsible Parties

A listing of verified Potentially Responsible Parties

Date of Government Version: 10/25/2013 Date Data Arrived at EDR: 10/17/2014 Date Made Active in Reports: 10/20/2014

Number of Days to Update: 3

Source: EPA

Telephone: 202-564-6023 Last EDR Contact: 05/14/2015

Next Scheduled EDR Contact: 08/24/2015 Data Release Frequency: Quarterly

PADS: PCB Activity Database System

PCB Activity Database. PADS Identifies generators, transporters, commercial storers and/or brokers and disposers of PCB's who are required to notify the EPA of such activities.

Date of Government Version: 07/01/2014 Date Data Arrived at EDR: 10/15/2014 Date Made Active in Reports: 11/17/2014

Number of Days to Update: 33

Source: EPA

Telephone: 202-566-0500 Last EDR Contact: 07/17/2015

Next Scheduled EDR Contact: 10/28/2015 Data Release Frequency: Annually

ICIS: Integrated Compliance Information System

The Integrated Compliance Information System (ICIS) supports the information needs of the national enforcement and compliance program as well as the unique needs of the National Pollutant Discharge Elimination System (NPDES) program.

Date of Government Version: 01/23/2015 Date Data Arrived at EDR: 02/06/2015 Date Made Active in Reports: 03/09/2015

Number of Days to Update: 31

Source: Environmental Protection Agency

Telephone: 202-564-5088 Last EDR Contact: 07/09/2015

Next Scheduled EDR Contact: 10/28/2015 Data Release Frequency: Quarterly

FTTS: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)

FTTS tracks administrative cases and pesticide enforcement actions and compliance activities related to FIFRA, TSCA and EPCRA (Emergency Planning and Community Right-to-Know Act). To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 04/09/2009 Date Data Arrived at EDR: 04/16/2009 Date Made Active in Reports: 05/11/2009

Number of Days to Update: 25

Source: EPA/Office of Prevention, Pesticides and Toxic Substances

Telephone: 202-566-1667 Last EDR Contact: 05/20/2015

Next Scheduled EDR Contact: 09/07/2015 Data Release Frequency: Quarterly

FTTS INSP: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)
A listing of FIFRA/TSCA Tracking System (FTTS) inspections and enforcements.

Date of Government Version: 04/09/2009 Date Data Arrived at EDR: 04/16/2009 Date Made Active in Reports: 05/11/2009

Number of Days to Update: 25

Source: EPA

Telephone: 202-566-1667 Last EDR Contact: 05/20/2015

Next Scheduled EDR Contact: 09/07/2015 Data Release Frequency: Quarterly

MLTS: Material Licensing Tracking System

MLTS is maintained by the Nuclear Regulatory Commission and contains a list of approximately 8,100 sites which possess or use radioactive materials and which are subject to NRC licensing requirements. To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 06/26/2015 Date Data Arrived at EDR: 07/10/2015 Date Made Active in Reports: 10/13/2015

Number of Days to Update: 95

Source: Nuclear Regulatory Commission

Telephone: 301-415-7169 Last EDR Contact: 09/03/2015

Next Scheduled EDR Contact: 12/21/2015 Data Release Frequency: Quarterly

COAL ASH DOE: Steam-Electric Plant Operation Data

A listing of power plants that store ash in surface ponds.

Date of Government Version: 12/31/2005 Date Data Arrived at EDR: 08/07/2009 Date Made Active in Reports: 10/22/2009

Number of Days to Update: 76

Source: Department of Energy Telephone: 202-586-8719 Last EDR Contact: 07/13/2015

Next Scheduled EDR Contact: 10/28/2015 Data Release Frequency: Varies

COAL ASH EPA: Coal Combustion Residues Surface Impoundments List

A listing of coal combustion residues surface impoundments with high hazard potential ratings.

Date of Government Version: 07/01/2014 Date Data Arrived at EDR: 09/10/2014 Date Made Active in Reports: 10/20/2014

Number of Days to Update: 40

Source: Environmental Protection Agency

Telephone: N/A

Last EDR Contact: 06/12/2015

Next Scheduled EDR Contact: 09/21/2015 Data Release Frequency: Varies

PCB TRANSFORMER: PCB Transformer Registration Database

The database of PCB transformer registrations that includes all PCB registration submittals.

Date of Government Version: 02/01/2011 Date Data Arrived at EDR: 10/19/2011 Date Made Active in Reports: 01/10/2012

Number of Days to Update: 83

Source: Environmental Protection Agency

Telephone: 202-566-0517 Last EDR Contact: 07/31/2015

Next Scheduled EDR Contact: 11/09/2015 Data Release Frequency: Varies

RADINFO: Radiation Information Database

The Radiation Information Database (RADINFO) contains information about facilities that are regulated by U.S.

Environmental Protection Agency (EPA) regulations for radiation and radioactivity.

Date of Government Version: 07/07/2015 Date Data Arrived at EDR: 07/09/2015 Date Made Active in Reports: 09/16/2015

Number of Days to Update: 69

Source: Environmental Protection Agency

Telephone: 202-343-9775 Last EDR Contact: 07/09/2015

Next Scheduled EDR Contact: 10/19/2015 Data Release Frequency: Quarterly

HIST FTTS: FIFRA/TSCA Tracking System Administrative Case Listing

A complete administrative case listing from the FIFRA/TSCA Tracking System (FTTS) for all ten EPA regions. The information was obtained from the National Compliance Database (NCDB). NCDB supports the implementation of FIFRA (Federal Insecticide, Fungicide, and Rodenticide Act) and TSCA (Toxic Substances Control Act). Some EPA regions are now closing out records. Because of that, and the fact that some EPA regions are not providing EPA Headquarters with updated records, it was decided to create a HIST FTTS database. It included records that may not be included in the newer FTTS database updates. This database is no longer updated.

Date of Government Version: 10/19/2006 Date Data Arrived at EDR: 03/01/2007 Date Made Active in Reports: 04/10/2007

Number of Days to Update: 40

Source: Environmental Protection Agency

Telephone: 202-564-2501 Last EDR Contact: 12/17/2007

Next Scheduled EDR Contact: 03/17/2008 Data Release Frequency: No Update Planned

HIST FTTS INSP: FIFRA/TSCA Tracking System Inspection & Enforcement Case Listing

A complete inspection and enforcement case listing from the FIFRA/TSCA Tracking System (FTTS) for all ten EPA regions. The information was obtained from the National Compliance Database (NCDB). NCDB supports the implementation of FIFRA (Federal Insecticide, Fungicide, and Rodenticide Act) and TSCA (Toxic Substances Control Act). Some EPA regions are now closing out records. Because of that, and the fact that some EPA regions are not providing EPA Headquarters with updated records, it was decided to create a HIST FTTS database. It included records that may not be included in the newer FTTS database updates. This database is no longer updated.

Date of Government Version: 10/19/2006 Date Data Arrived at EDR: 03/01/2007 Date Made Active in Reports: 04/10/2007

Number of Days to Update: 40

Source: Environmental Protection Agency

Telephone: 202-564-2501 Last EDR Contact: 12/17/2008

Next Scheduled EDR Contact: 03/17/2008 Data Release Frequency: No Update Planned

DOT OPS: Incident and Accident Data

Department of Transporation, Office of Pipeline Safety Incident and Accident data.

Date of Government Version: 07/31/2012 Date Data Arrived at EDR: 08/07/2012 Date Made Active in Reports: 09/18/2012

Number of Days to Update: 42

Source: Department of Transporation, Office of Pipeline Safety

Telephone: 202-366-4595 Last EDR Contact: 08/04/2015

Next Scheduled EDR Contact: 11/16/2015 Data Release Frequency: Varies

CONSENT: Superfund (CERCLA) Consent Decrees

Major legal settlements that establish responsibility and standards for cleanup at NPL (Superfund) sites. Released periodically by United States District Courts after settlement by parties to litigation matters.

Date of Government Version: 12/31/2014 Date Data Arrived at EDR: 04/17/2015 Date Made Active in Reports: 06/02/2015

Number of Days to Update: 46

Source: Department of Justice, Consent Decree Library

Telephone: Varies

Last EDR Contact: 06/22/2015

Next Scheduled EDR Contact: 10/12/2015 Data Release Frequency: Varies

BRS: Biennial Reporting System

The Biennial Reporting System is a national system administered by the EPA that collects data on the generation and management of hazardous waste. BRS captures detailed data from two groups: Large Quantity Generators (LQG) and Treatment, Storage, and Disposal Facilities.

Date of Government Version: 12/31/2013 Date Data Arrived at EDR: 02/24/2015 Date Made Active in Reports: 09/30/2015

Number of Days to Update: 218

Source: EPA/NTIS Telephone: 800-424-9346 Last EDR Contact: 08/28/2015

Next Scheduled EDR Contact: 12/07/2015 Data Release Frequency: Biennially

INDIAN RESERV: Indian Reservations

This map layer portrays Indian administered lands of the United States that have any area equal to or greater

than 640 acres.

Date of Government Version: 12/31/2005 Date Data Arrived at EDR: 12/08/2006 Date Made Active in Reports: 01/11/2007

Number of Days to Update: 34

Source: USGS

Telephone: 202-208-3710 Last EDR Contact: 07/14/2015

Next Scheduled EDR Contact: 10/28/2015 Data Release Frequency: Semi-Annually

UMTRA: Uranium Mill Tailings Sites

Uranium ore was mined by private companies for federal government use in national defense programs. When the mills shut down, large piles of the sand-like material (mill tailings) remain after uranium has been extracted from the ore. Levels of human exposure to radioactive materials from the piles are low; however, in some cases tailings were used as construction materials before the potential health hazards of the tailings were recognized.

Date of Government Version: 09/14/2010 Date Data Arrived at EDR: 10/07/2011 Date Made Active in Reports: 03/01/2012

Number of Days to Update: 146

Source: Department of Energy Telephone: 505-845-0011 Last EDR Contact: 05/26/2015

Next Scheduled EDR Contact: 09/07/2015 Data Release Frequency: Varies

LEAD SMELTER 1: Lead Smelter Sites

A listing of former lead smelter site locations.

Date of Government Version: 11/25/2014 Date Data Arrived at EDR: 11/26/2014 Date Made Active in Reports: 01/29/2015

Number of Days to Update: 64

Source: Environmental Protection Agency

Telephone: 703-603-8787 Last EDR Contact: 07/07/2015

Next Scheduled EDR Contact: 10/19/2015 Data Release Frequency: Varies

LEAD SMELTER 2: Lead Smelter Sites

A list of several hundred sites in the U.S. where secondary lead smelting was done from 1931and 1964. These sites may pose a threat to public health through ingestion or inhalation of contaminated soil or dust

Date of Government Version: 04/05/2001 Date Data Arrived at EDR: 10/27/2010 Date Made Active in Reports: 12/02/2010 Number of Days to Update: 36

Source: American Journal of Public Health

Telephone: 703-305-6451 Last EDR Contact: 12/02/2009 Next Scheduled EDR Contact: N/A

Data Release Frequency: No Update Planned

US AIRS (AFS): Aerometric Information Retrieval System Facility Subsystem (AFS)

The database is a sub-system of Aerometric Information Retrieval System (AIRS). AFS contains compliance data on air pollution point sources regulated by the U.S. EPA and/or state and local air regulatory agencies. This information comes from source reports by various stationary sources of air pollution, such as electric power plants, steel mills, factories, and universities, and provides information about the air pollutants they produce. Action, air program, air program pollutant, and general level plant data. It is used to track emissions and compliance data from industrial plants.

Date of Government Version: 07/22/2015 Date Data Arrived at EDR: 07/24/2015 Date Made Active in Reports: 09/02/2015

Number of Days to Update: 40

Source: EPA

Telephone: 202-564-2496 Last EDR Contact: 06/22/2015

Next Scheduled EDR Contact: 10/05/2015 Data Release Frequency: Annually

US AIRS MINOR: Air Facility System Data A listing of minor source facilities.

Date of Government Version: 07/22/2015 Date Data Arrived at EDR: 07/24/2015 Date Made Active in Reports: 09/02/2015

Number of Days to Update: 40

Source: EPA

Telephone: 202-564-2496 Last EDR Contact: 06/22/2015

Next Scheduled EDR Contact: 10/22/2015 Data Release Frequency: Annually

US MINES: Mines Master Index File

Contains all mine identification numbers issued for mines active or opened since 1971. The data also includes violation information.

Date of Government Version: 05/14/2015 Date Data Arrived at EDR: 06/03/2015 Date Made Active in Reports: 09/02/2015

Number of Days to Update: 91

Source: Department of Labor, Mine Safety and Health Administration

Telephone: 303-231-5959 Last EDR Contact: 09/01/2015

Next Scheduled EDR Contact: 12/14/2015 Data Release Frequency: Semi-Annually

US MINES 2: Ferrous and Nonferrous Metal Mines Database Listing

This map layer includes ferrous (ferrous metal mines are facilities that extract ferrous metals, such as iron ore or molybdenum) and nonferrous (Nonferrous metal mines are facilities that extract nonferrous metals, such as gold, silver, copper, zinc, and lead) metal mines in the United States.

Date of Government Version: 12/05/2005 Date Data Arrived at EDR: 02/29/2008 Date Made Active in Reports: 04/18/2008

Number of Days to Update: 49

Source: USGS

Telephone: 703-648-7709 Last EDR Contact: 06/05/2015

Next Scheduled EDR Contact: 09/14/2015 Data Release Frequency: Varies

US MINES 3: Active Mines & Mineral Plants Database Listing

Active Mines and Mineral Processing Plant operations for commodities monitored by the Minerals Information Team of the USGS.

Date of Government Version: 04/14/2011 Date Data Arrived at EDR: 06/08/2011 Date Made Active in Reports: 09/13/2011

Number of Days to Update: 97

Source: USGS

Telephone: 703-648-7709 Last EDR Contact: 06/05/2015

Next Scheduled EDR Contact: 09/14/2015 Data Release Frequency: Varies

FINDS: Facility Index System/Facility Registry System

Facility Index System. FINDS contains both facility information and 'pointers' to other sources that contain more detail. EDR includes the following FINDS databases in this report: PCS (Permit Compliance System), AIRS (Aerometric Information Retrieval System), DOCKET (Enforcement Docket used to manage and track information on civil judicial enforcement cases for all environmental statutes), FURS (Federal Underground Injection Control), C-DOCKET (Criminal Docket System used to track criminal enforcement actions for all environmental statutes), FFIS (Federal Facilities Information System), STATE (State Environmental Laws and Statutes), and PADS (PCB Activity Data System).

Date of Government Version: 01/18/2015 Date Data Arrived at EDR: 02/27/2015 Date Made Active in Reports: 03/25/2015

Number of Days to Update: 26

Source: EPA

Telephone: (913) 551-7003 Last EDR Contact: 06/10/2015

Next Scheduled EDR Contact: 09/21/2015 Data Release Frequency: Quarterly

AIRS: Minor and Title V Sources Listing A listing of Minor and Title V sources.

> Date of Government Version: 06/11/2015 Date Data Arrived at EDR: 06/16/2015 Date Made Active in Reports: 07/20/2015

Number of Days to Update: 34

Source: Department of Natural Resources

Telephone: 515-281-8468 Last EDR Contact: 06/10/2015

Next Scheduled EDR Contact: 09/28/2015 Data Release Frequency: Varies

COAL ASH: Coal Ash Disposal Site Listing

A listing of coal combustion residue landfill locations.

Date of Government Version: 06/08/2015 Date Data Arrived at EDR: 06/10/2015 Date Made Active in Reports: 07/20/2015

Number of Days to Update: 40

Source: Department of Natural Resources

Telephone: 515-281-8308 Last EDR Contact: 06/10/2015

Next Scheduled EDR Contact: 09/21/2015 Data Release Frequency: Quarterly

DRYCLEANERS: Iowa Drycleaner List A listing of drycleaners in Iowa.

> Date of Government Version: 06/10/2015 Date Data Arrived at EDR: 07/20/2015 Date Made Active in Reports: 08/06/2015

Number of Days to Update: 17

Source: Department of Natural Resources

Telephone: 515-242-5100 Last EDR Contact: 07/20/2015

Next Scheduled EDR Contact: 11/02/2015 Data Release Frequency: Varies

Financial Assurance 1: Financial Assurance Information Listing

A listing of financial assurance information for underground storage tank facilities. Financial assurance is intended to ensure that resources are available to pay for the cost of closure, post-closure care, and corrective measures if the owner or operator of a regulated facility is unable or unwilling to pay.

Date of Government Version: 06/12/2015 Date Data Arrived at EDR: 06/25/2015 Date Made Active in Reports: 07/20/2015

Number of Days to Update: 25

Source: Department of Natural Resources

Telephone: 515-242-5086 Last EDR Contact: 06/05/2015

Next Scheduled EDR Contact: 09/21/2015 Data Release Frequency: Quarterly

Financial Assurance 2: Financial Assurance Information Listing

Information for solid waste facilities. Financial assurance is intended to ensure that resources are available to pay for the cost of closure, post-closure care, and corrective measures if the owner or operator of a regulated facility is unable or unwilling to pay

Date of Government Version: 06/04/2015 Date Data Arrived at EDR: 06/09/2015 Date Made Active in Reports: 07/20/2015

Number of Days to Update: 41

Source: Department of Natural Resources

Telephone: 515-242-5818 Last EDR Contact: 06/05/2015

Next Scheduled EDR Contact: 09/21/2015

Data Release Frequency: Varies

NPDES: List of NPDES Permittees

The files listed below contain information on facilities that hold NPDES permits, or those that are authorized to discharge wastewater to surface waters in Iowa.

Date of Government Version: 06/01/2015 Date Data Arrived at EDR: 08/18/2015 Date Made Active in Reports: 08/19/2015

Number of Days to Update: 1

Source: Department of Natural Resources

Telephone: 515-281-4736 Last EDR Contact: 08/18/2015

Next Scheduled EDR Contact: 11/30/2015 Data Release Frequency: Varies

TIER 2: Tier 2 Information Listing

A listing of facilities which store or manufacture hazardous materials and submit a chemical inventory report.

Date of Government Version: 12/31/2014 Date Data Arrived at EDR: 03/24/2015 Date Made Active in Reports: 04/02/2015

Number of Days to Update: 9

Source: Department of Natural Resources

Telephone: 515-725-0302 Last EDR Contact: 06/17/2015

Next Scheduled EDR Contact: 10/05/2015 Data Release Frequency: Annually

EDR HIGH RISK HISTORICAL RECORDS

EDR Exclusive Records

EDR MGP: EDR Proprietary Manufactured Gas Plants

The EDR Proprietary Manufactured Gas Plant Database includes records of coal gas plants (manufactured gas plants) compiled by EDR's researchers. Manufactured gas sites were used in the United States from the 1800's to 1950's to produce a gas that could be distributed and used as fuel. These plants used whale oil, rosin, coal, or a mixture of coal, oil, and water that also produced a significant amount of waste. Many of the byproducts of the gas production, such as coal tar (oily waste containing volatile and non-volatile chemicals), sludges, oils and other compounds are potentially hazardous to human health and the environment. The byproduct from this process was frequently disposed of directly at the plant site and can remain or spread slowly, serving as a continuous source of soil and groundwater contamination.

Date of Government Version: N/A Date Data Arrived at EDR: N/A Date Made Active in Reports: N/A Number of Days to Update: N/A Source: EDR, Inc. Telephone: N/A Last EDR Contact: N/A

Next Scheduled EDR Contact: N/A

Data Release Frequency: No Update Planned

EDR US Hist Auto Stat: EDR Exclusive Historic Gas Stations

EDR has searched selected national collections of business directories and has collected listings of potential gas station/filling station/service station sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include gas station/filling station/service station establishments. The categories reviewed included, but were not limited to gas, gas station, gasoline station, filling station, auto, automobile repair, auto service station, service station, etc. This database falls within a category of information EDR classifies as "High Risk Historical Records", or HRHR. EDR's HRHR effort presents unique and sometimes proprietary data about past sites and operations that typically create environmental concerns, but may not show up in current government records searches.

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A

Number of Days to Update: N/A

Source: EDR, Inc. Telephone: N/A Last EDR Contact: N/A

Next Scheduled EDR Contact: N/A Data Release Frequency: Varies

EDR US Hist Cleaners: EDR Exclusive Historic Dry Cleaners

EDR has searched selected national collections of business directories and has collected listings of potential dry cleaner sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include dry cleaning establishments. The categories reviewed included, but were not limited to dry cleaners, cleaners, laundry, laundromat, cleaning/laundry, wash & dry etc. This database falls within a category of information EDR classifies as "High Risk Historical Records", or HRHR. EDR's HRHR effort presents unique and sometimes proprietary data about past sites and operations that typically create environmental concerns, but may not show up in current government records searches.

Date of Government Version: N/A Date Data Arrived at EDR: N/A Date Made Active in Reports: N/A Number of Days to Update: N/A

Source: EDR, Inc. Telephone: N/A Last EDR Contact: N/A

Next Scheduled EDR Contact: N/A Data Release Frequency: Varies

EDR RECOVERED GOVERNMENT ARCHIVES

Exclusive Recovered Govt. Archives

RGA HWS: Recovered Government Archive State Hazardous Waste Facilities List

The EDR Recovered Government Archive State Hazardous Waste database provides a list of SHWS incidents derived from historical databases and includes many records that no longer appear in current government lists. Compiled from Records formerly available from the Department of Natural Resources in Iowa.

Date of Government Version: N/A Date Data Arrived at EDR: 07/01/2013 Date Made Active in Reports: 01/03/2014 Number of Days to Update: 186

Source: Department of Natural Resources Telephone: N/A Last EDR Contact: 06/01/2012

Next Scheduled EDR Contact: N/A Data Release Frequency: Varies

RGA LUST: Recovered Government Archive Leaking Underground Storage Tank

The EDR Recovered Government Archive Leaking Underground Storage Tank database provides a list of LUST incidents derived from historical databases and includes many records that no longer appear in current government lists.

Compiled from Records formerly available from the Department of Natural Resources in Iowa.

Date of Government Version: N/A Date Data Arrived at EDR: 07/01/2013 Date Made Active in Reports: 12/26/2013 Number of Days to Update: 178

Source: Department of Natural Resources Telephone: N/A

Last EDR Contact: 06/01/2012 Next Scheduled EDR Contact: N/A Data Release Frequency: Varies

OTHER DATABASE(S)

Depending on the geographic area covered by this report, the data provided in these specialty databases may or may not be complete. For example, the existence of wetlands information data in a specific report does not mean that all wetlands in the area covered by the report are included. Moreover, the absence of any reported wetlands information does not necessarily mean that wetlands do not exist in the area covered by the report.

CT MANIFEST: Hazardous Waste Manifest Data

Facility and manifest data. Manifest is a document that lists and tracks hazardous waste from the generator through transporters to a tsd facility.

Date of Government Version: 07/30/2013 Date Data Arrived at EDR: 08/19/2013 Date Made Active in Reports: 10/03/2013 Source: Department of Energy & Environmental Protection

Telephone: 860-424-3375 Last EDR Contact: 05/18/2015

Number of Days to Update: 45

Next Scheduled EDR Contact: 08/31/2015 Data Release Frequency: No Update Planned

NJ MANIFEST: Manifest Information Hazardous waste manifest information.

Number of Days to Update: 26

Date of Government Version: 12/31/2013 Date Data Arrived at EDR: 07/17/2015 Date Made Active in Reports: 08/12/2015

Source: Department of Environmental Protection

Telephone: N/A

Last EDR Contact: 07/13/2015

Next Scheduled EDR Contact: 10/28/2015 Data Release Frequency: Annually

NY MANIFEST: Facility and Manifest Data

Manifest is a document that lists and tracks hazardous waste from the generator through transporters to a TSD

Date of Government Version: 08/01/2015 Date Data Arrived at EDR: 08/06/2015 Date Made Active in Reports: 08/24/2015

Number of Days to Update: 18

Source: Department of Environmental Conservation

Telephone: 518-402-8651 Last EDR Contact: 08/06/2015

Next Scheduled EDR Contact: 11/16/2015 Data Release Frequency: Annually

RI MANIFEST: Manifest information

Hazardous waste manifest information

Date of Government Version: 12/31/2013 Date Data Arrived at EDR: 06/19/2015 Date Made Active in Reports: 07/15/2015

Number of Days to Update: 26

Source: Department of Environmental Management

Telephone: 401-222-2797 Last EDR Contact: 05/26/2015

Next Scheduled EDR Contact: 09/07/2015 Data Release Frequency: Annually

WI MANIFEST: Manifest Information

Hazardous waste manifest information.

Date of Government Version: 12/31/2014 Date Data Arrived at EDR: 03/19/2015 Date Made Active in Reports: 04/07/2015

Number of Days to Update: 19

Source: Department of Natural Resources

Telephone: N/A

Last EDR Contact: 06/11/2015

Next Scheduled EDR Contact: 09/28/2015 Data Release Frequency: Annually

Oil/Gas Pipelines

Source: PennWell Corporation Telephone: 281-546-1505

Petroleum Bundle (Crude Oil, Refined Products, Petrochemicals, Gas Liquids (LPG/NGL), and Specialty Gases (Miscellaneous)) N = Natural Gas Bundle (Natural Gas, Gas Liquids (LPG/NGL), and Specialty Gases (Miscellaneous)). This map includes information copyrighted by PennWell Corporation. This information is provided on a best effort basis and PennWell Corporation does not guarantee its accuracy nor warrant its fitness for any particular purpose. Such information has been reprinted with the permission of PennWell.

Electric Power Transmission Line Data

Source: PennWell Corporation Telephone: 800-823-6277

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Sensitive Receptors: There are individuals deemed sensitive receptors due to their fragile immune systems and special sensitivity to environmental discharges. These sensitive receptors typically include the elderly, the sick, and children. While the location of all sensitive receptors cannot be determined, EDR indicates those buildings and facilities - schools, daycares, hospitals, medical centers, and nursing homes - where individuals who are sensitive receptors are likely to be located.

AHA Hospitals:

Source: American Hospital Association, Inc.

Telephone: 312-280-5991

The database includes a listing of hospitals based on the American Hospital Association's annual survey of hospitals.

Medical Centers: Provider of Services Listing

Source: Centers for Medicare & Medicaid Services

Telephone: 410-786-3000

A listing of hospitals with Medicare provider number, produced by Centers of Medicare & Medicaid Services,

a federal agency within the U.S. Department of Health and Human Services.

Nursing Homes

Source: National Institutes of Health

Telephone: 301-594-6248

Information on Medicare and Medicaid certified nursing homes in the United States.

Public Schools

Source: National Center for Education Statistics

Telephone: 202-502-7300

The National Center for Education Statistics' primary database on elementary

and secondary public education in the United States. It is a comprehensive, annual, national statistical database of all public elementary and secondary schools and school districts, which contains data that are

comparable across all states.

Private Schools

Source: National Center for Education Statistics

Telephone: 202-502-7300

The National Center for Education Statistics' primary database on private school locations in the United States.

Daycare Centers: Child Care Facilities Source: Department of Human Services

Telephone: 515-281-4357

Flood Zone Data: This data, available in select counties across the country, was obtained by EDR in 2003 & 2011 from the Federal Emergency Management Agency (FEMA). Data depicts 100-year and 500-year flood zones as defined by FEMA.

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002, 2005 and 2010 from the U.S. Fish and Wildlife Service.

Current USGS 7.5 Minute Topographic Map Source: U.S. Geological Survey

STREET AND ADDRESS INFORMATION

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GEOCHECK®- PHYSICAL SETTING SOURCE ADDENDUM

TARGET PROPERTY ADDRESS

SOUTH WATERLOO BUSINESS PARK ANSBOROUGH AVENUE / HIGHWAY 20 WATERLOO, IA 50701

TARGET PROPERTY COORDINATES

Latitude (North): 42.45 - 42° 27' 0.00" Longitude (West): 92.3715 - 92° 22' 17.40"

Universal Tranverse Mercator: Zone 15 UTM X (Meters): 551684.1 UTM Y (Meters): 4699718.5

Elevation: 957 ft. above sea level

USGS TOPOGRAPHIC MAP

Target Property Map: 5944586 WATERLOO SOUTH, IA

Version Date: 2013

West Map: 5944568 HUDSON, IA

Version Date: 2013

EDR's GeoCheck Physical Setting Source Addendum is provided to assist the environmental professional in forming an opinion about the impact of potential contaminant migration.

Assessment of the impact of contaminant migration generally has two principal investigative components:

- 1. Groundwater flow direction, and
- 2. Groundwater flow velocity.

Groundwater flow direction may be impacted by surface topography, hydrology, hydrogeology, characteristics of the soil, and nearby wells. Groundwater flow velocity is generally impacted by the nature of the geologic strata.

GROUNDWATER FLOW DIRECTION INFORMATION

Groundwater flow direction for a particular site is best determined by a qualified environmental professional using site-specific well data. If such data is not reasonably ascertainable, it may be necessary to rely on other sources of information, such as surface topographic information, hydrologic information, hydrogeologic data collected on nearby properties, and regional groundwater flow information (from deep aquifers).

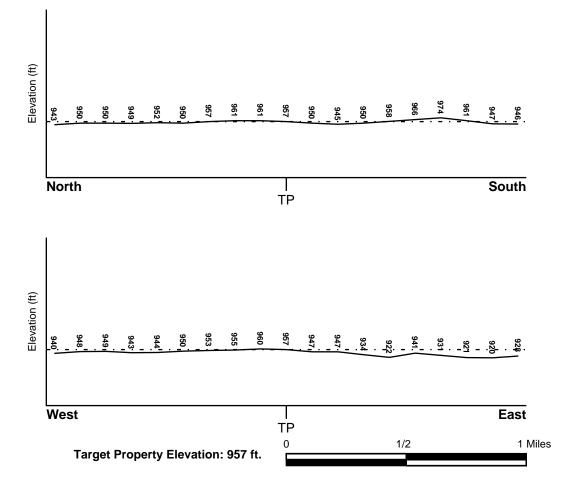
TOPOGRAPHIC INFORMATION

Surface topography may be indicative of the direction of surficial groundwater flow. This information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

TARGET PROPERTY TOPOGRAPHY

General Topographic Gradient: General SSE

SURROUNDING TOPOGRAPHY: ELEVATION PROFILES



Source: Topography has been determined from the USGS 7.5' Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified.

HYDROLOGIC INFORMATION

Surface water can act as a hydrologic barrier to groundwater flow. Such hydrologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

Refer to the Physical Setting Source Map following this summary for hydrologic information (major waterways and bodies of water).

FEMA FLOOD ZONE

FEMA Flood
Target Property County Electronic Data

BLACK HAWK, IA YES - refer to the Overview Map and Detail Map

Flood Plain Panel at Target Property: 1900250014E - FEMA Q3 Flood data

Additional Panels in search area: 1900250012E - FEMA Q3 Flood data 1900250015E - FEMA Q3 Flood data

NATIONAL WETLAND INVENTORY

NWI Quad at Target Property Data Coverage

WATERLOO SOUTH YES - refer to the Overview Map and Detail Map

HYDROGEOLOGIC INFORMATION

Hydrogeologic information obtained by installation of wells on a specific site can often be an indicator of groundwater flow direction in the immediate area. Such hydrogeologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

AQUIFLOW®

Search Radius: 1.000 Mile.

EDR has developed the AQUIFLOW Information System to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted by environmental professionals to regulatory authorities at select sites and has extracted the date of the report, groundwater flow direction as determined hydrogeologically, and the depth to water table.

 MAP ID
 FROM TP
 GROUNDWATER FLOW

 Not Reported
 GROUNDWATER FLOW

GROUNDWATER FLOW VELOCITY INFORMATION

Groundwater flow velocity information for a particular site is best determined by a qualified environmental professional using site specific geologic and soil strata data. If such data are not reasonably ascertainable, it may be necessary to rely on other sources of information, including geologic age identification, rock stratigraphic unit and soil characteristics data collected on nearby properties and regional soil information. In general, contaminant plumes move more quickly through sandy-gravelly types of soils than silty-clayey types of soils.

GEOLOGIC INFORMATION IN GENERAL AREA OF TARGET PROPERTY

Geologic information can be used by the environmental professional in forming an opinion about the relative speed at which contaminant migration may be occurring.

ROCK STRATIGRAPHIC UNIT

GEOLOGIC AGE IDENTIFICATION

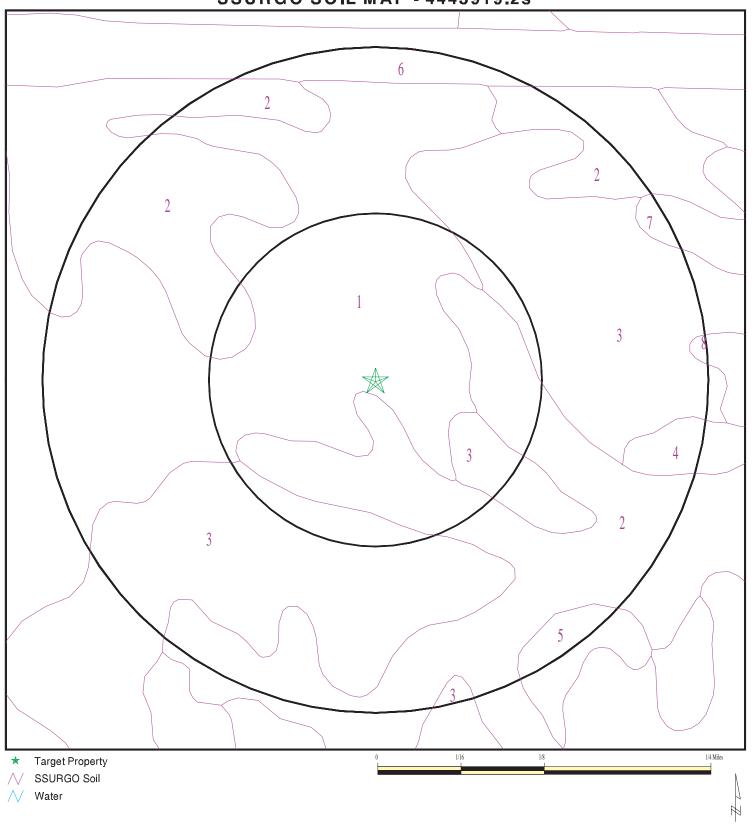
Era: Paleozoic Category: Stratified Sequence

System: Devonian
Series: Middle Devonian

Code: D2 (decoded above as Era, System & Series)

Geologic Age and Rock Stratigraphic Unit Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - a digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).

SSURGO SOIL MAP - 4443919.2s



SITE NAME: South Waterloo Business Park
ADDRESS: Ansborough Avenue / Highway 20
Waterloo IA 50701

LAT/LONG: 42.45 / 92.3715 CLIENT: Terracon,Inc. CONTACT: Dave Cleary INQUIRY #: 4443919.2s

October 21, 2015 11:31 am DATE:

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DOMINANT SOIL COMPOSITION IN GENERAL AREA OF TARGET PROPERTY

The U.S. Department of Agriculture's (USDA) Soil Conservation Service (SCS) leads the National Cooperative Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. The following information is based on Soil Conservation Service SSURGO data.

Soil Map ID: 1

Soil Component Name: Klinger

Soil Surface Texture: silty clay loam

Hydrologic Group: Class B - Moderate infiltration rates. Deep and moderately deep,

moderately well and well drained soils with moderately coarse

textures.

Soil Drainage Class: Somewhat poorly drained

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: High

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 30 inches

	Soil Layer Information							
	Воц	Boundary		Classi	fication	Saturated hydraulic		
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil	conductivity micro m/sec	Ooii itoaoiioii	
1	9 inches	12 inches	silty clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 14.11 Min: 4.23	Max: 7.3 Min: 5.1	
2	18 inches	31 inches	silty clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 14.11 Min: 4.23	Max: 6.5 Min: 5.1	
3	46 inches	64 inches	loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 14.11 Min: 4.23	Max: 7.8 Min: 5.1	

	Soil Layer Information						
	Bou	ındary		Classification		Saturated hydraulic	
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil	conductivity micro m/sec	Soil Reaction (pH)
4	0 inches	9 inches	silty clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 14.11 Min: 4.23	Max: 7.3 Min: 5.1
5	31 inches	40 inches	loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 14.11 Min: 4.23	Max: 7.8 Min: 5.1
6	12 inches	18 inches	silty clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 14.11 Min: 4.23	Max: 7.3 Min: 5.1
7	40 inches	46 inches	loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 14.11 Min: 4.23	Max: 7.8 Min: 5.1

Soil Map ID: 2

Soil Component Name: Maxfield

Soil Surface Texture: silty clay loam

Hydrologic Group: Class B/D - Drained/undrained hydrology class of soils that can be

drained and are classified.

Soil Drainage Class: Poorly drained

Hydric Status: All hydric

Corrosion Potential - Uncoated Steel: High

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

			Soil Layer	r Information			
	Boundary		Boundary Classification	(laccitication		Saturated hydraulic	
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil	conductivity micro m/sec	Soil Reaction (pH)
1	7 inches	16 inches	silty clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 14.11 Min: 4.23	Max: 7.3 Min: 6.6
2	16 inches	22 inches	silty clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 14.11 Min: 4.23	Max: 7.3 Min: 6.1
3	44 inches	66 inches	loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 14.11 Min: 4.23	Max: 7.8 Min: 6.1
4	0 inches	7 inches	silty clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 14.11 Min: 4.23	Max: 7.3 Min: 6.6
5	31 inches	44 inches	loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 14.11 Min: 4.23	Max: 7.8 Min: 6.1
6	22 inches	31 inches	silt loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 14.11 Min: 4.23	Max: 7.3 Min: 6.1

Soil Map ID: 3

Soil Component Name: Dinsdale

silty clay loam Soil Surface Texture:

Class B - Moderate infiltration rates. Deep and moderately deep, moderately well and well drained soils with moderately coarse Hydrologic Group:

textures.

Soil Drainage Class: Moderately well drained

GEOCHECK[®] - PHYSICAL SETTING SOURCE SUMMARY

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: Moderate

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 122 inches

			Soil Layer	Information			
	Boundary		Classi	Classification			
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil	hydraulic conductivity micro m/sec	Soil Reaction (pH)
1	0 inches	7 inches	silty clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 14.11 Min: 4.23	Max: 7.3 Min: 5.1
2	7 inches	14 inches	silty clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 14.11 Min: 4.23	Max: 7.3 Min: 5.1
3	20 inches	35 inches	silty clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 14.11 Min: 4.23	Max: 7.3 Min: 5.1
4	14 inches	20 inches	silty clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 14.11 Min: 4.23	Max: 7.3 Min: 5.1
5	50 inches	79 inches	loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 14.11 Min: 4.23	Max: 8.4 Min: 5.6
6	35 inches	50 inches	loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 14.11 Min: 4.23	Max: 8.4 Min: 5.6

Soil Map ID: 4

Kenyon Soil Component Name:

Soil Surface Texture: loam

Class B - Moderate infiltration rates. Deep and moderately deep, moderately well and well drained soils with moderately coarse Hydrologic Group:

textures.

Soil Drainage Class: Moderately well drained

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: Moderate

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 122 inches

	Soil Layer Information						
	Boundary		Classification		Saturated hydraulic		
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil	conductivity micro m/sec	ivity Soil Reaction
1	0 inches	7 inches	loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 14.11 Min: 4.23	Max: 7.3 Min: 5.6
2	7 inches	14 inches	loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 14.11 Min: 4.23	Max: 7.3 Min: 5.6
3	14 inches	40 inches	loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 14.11 Min: 4.23	Max: 7.3 Min: 5.1
4	40 inches	46 inches	loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 14.11 Min: 4.23	Max: 8.4 Min: 6.6
5	46 inches	75 inches	loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 14.11 Min: 4.23	Max: 8.4 Min: 6.6

Soil Map ID: 5

Soil Component Name: Dinsdale

Soil Surface Texture: silty clay loam

Class B - Moderate infiltration rates. Deep and moderately deep, moderately well and well drained soils with moderately coarse Hydrologic Group:

textures.

Soil Drainage Class: Moderately well drained

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: Moderate

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 122 inches

	Soil Layer Information						
	Воц	ındary		Classi	fication	Saturated hydraulic	
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil	conductivity micro m/sec	Soil Reaction (pH)
1	0 inches	7 inches	silty clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 14.11 Min: 4.23	Max: 7.3 Min: 5.1
2	7 inches	25 inches	silty clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 14.11 Min: 4.23	Max: 7.3 Min: 5.1
3	40 inches	79 inches	loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 14.11 Min: 4.23	Max: 8.4 Min: 5.6
4	25 inches	40 inches	loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 14.11 Min: 4.23	Max: 8.4 Min: 5.6

Soil Map ID: 6

Soil Component Name: Urban land

Soil Surface Texture: silty clay loam

Hydrologic Group: Class B - Moderate infiltration rates. Deep and moderately deep,

moderately well and well drained soils with moderately coarse

textures.

> 0 inches

Soil Drainage Class: Hydric Status: Unknown

Depth to Watertable Min:

Corrosion Potential - Uncoated Steel: Not Reported

Depth to Bedrock Min: > 0 inches

No Layer Information available.

Soil Map ID: 7

Soil Component Name: Aredale

Soil Surface Texture: loam

Hydrologic Group: Class B - Moderate infiltration rates. Deep and moderately deep,

moderately well and well drained soils with moderately coarse

textures.

Soil Drainage Class: Well drained

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: Moderate

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

	Soil Layer Information									
	Boundary Classification					Boundary		fication	Saturated hydraulic	
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil	conductivity Soil Reaction micro m/sec (pH)				
1	7 inches	31 inches	loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 14.11 Min: 4.23	Max: 6 Min: 5.1			

	Soil Layer Information							
	Вои	Boundary		Classi	fication	Saturated hydraulic		
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil	conductivity micro m/sec	Soil Reaction (pH)	
2	31 inches	50 inches	sandy loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Clayey sand.	Max: 42.33 Min: 14.11	Max: 6 Min: 5.1	
3	0 inches	7 inches	loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 14.11 Min: 4.23	Max: 7.3 Min: 5.6	
4	50 inches	70 inches	loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 4.23 Min: 1.41	Max: 7.3 Min: 5.6	

Soil Map ID: 8

Soil Component Name: Clyde

Soil Surface Texture: silty clay loam

Hydrologic Group: Class B/D - Drained/undrained hydrology class of soils that can be

drained and are classified.

Soil Drainage Class: Poorly drained

Hydric Status: Partially hydric

Corrosion Potential - Uncoated Steel: High

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

GEOCHECK[®] - PHYSICAL SETTING SOURCE SUMMARY

			Soil Layer	Information			
	Boundary		ındary		fication	Saturated hydraulic	
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil	conductivity micro m/sec	Soil Reaction (pH)
1	0 inches	7 inches	silty clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), silt.	Max: 14.11 Min: 4.23	Max: 7.3 Min: 6.6
2	7 inches	16 inches	silty clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), silt.	Max: 14.11 Min: 4.23	Max: 7.3 Min: 6.6
3	16 inches	22 inches	silty clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), silt.	Max: 14.11 Min: 4.23	Max: 7.3 Min: 6.6
4	22 inches	40 inches	silty clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 14.11 Min: 4.23	Max: 7.3 Min: 6.1
5	40 inches	44 inches	sandy loam	Granular materials (35 pct. or less passing No. 200), Silty, or Clayey Gravel and Sand.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 14.11 Min: 4.23	Max: 7.3 Min: 6.1
6	44 inches	53 inches	loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 14.11 Min: 4.23	Max: 8.4 Min: 6.6
7	53 inches	66 inches	loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 14.11 Min: 4.23	Max: 8.4 Min: 6.6

LOCAL / REGIONAL WATER AGENCY RECORDS

EDR Local/Regional Water Agency records provide water well information to assist the environmental professional in assessing sources that may impact ground water flow direction, and in forming an opinion about the impact of contaminant migration on nearby drinking water wells.

WELL SEARCH DISTANCE INFORMATION

DATABASE SEARCH DISTANCE (miles)

Federal USGS 1.000

Federal FRDS PWS Nearest PWS within 1 mile

State Database 1.000

FEDERAL USGS WELL INFORMATION

LOCATION
WELL ID FROM TP

No Wells Found

MAP ID

FEDERAL FRDS PUBLIC WATER SUPPLY SYSTEM INFORMATION

MAP ID WELL ID FROM TP

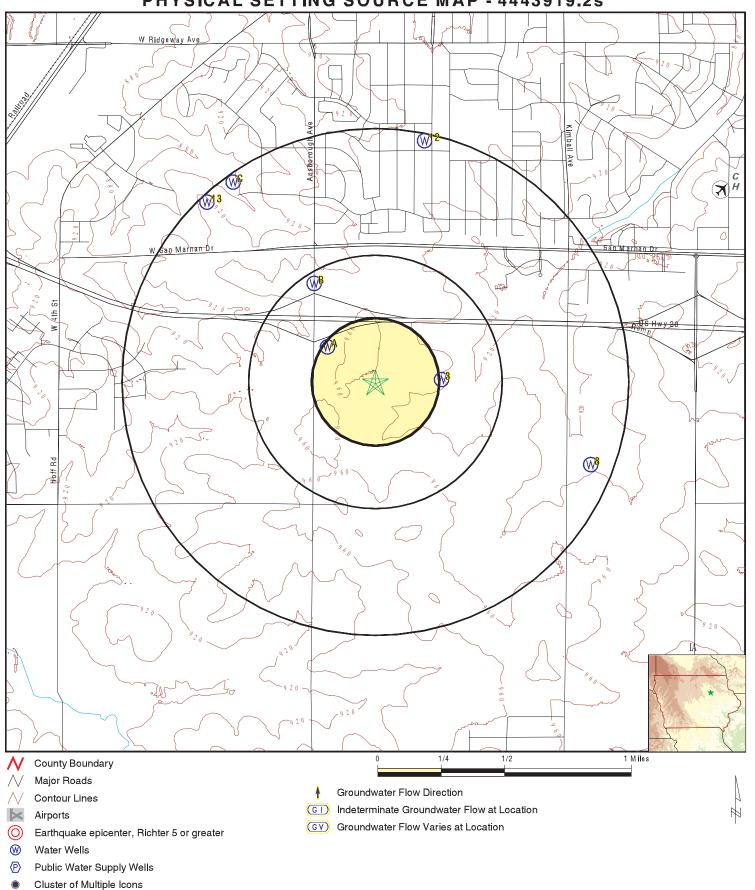
No PWS System Found

Note: PWS System location is not always the same as well location.

STATE DATABASE WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
	IAPW30000005981	1/8 - 1/4 Mile NW
A2	IAPU30000186153	1/8 - 1/4 Mile NW
3	IAPU30000186776	1/4 - 1/2 Mile East
B4	IAPU30000186007	1/4 - 1/2 Mile NNW
B5	IAPW3000051291	1/4 - 1/2 Mile NNW
B6	IAPW3000041668	1/4 - 1/2 Mile NNW
B7	IAPU30000185888	1/4 - 1/2 Mile NNW
8	IAPU30000187565	1/2 - 1 Mile ESE
C9	IAUS20000002123	1/2 - 1 Mile NW
C10	IAPU30000185294	1/2 - 1 Mile NW
C11	IAPU30000185289	1/2 - 1 Mile NW
12	IAPW30000103428	1/2 - 1 Mile NNE
13	IAPU30000185199	1/2 - 1 Mile NW
C14	IAUS2000001411	1/2 - 1 Mile NW
C15	IAPU30000185336	1/2 - 1 Mile NW
C16	IAPU30000185324	1/2 - 1 Mile NW

PHYSICAL SETTING SOURCE MAP - 4443919.2s



SITE NAME: South Waterloo Business Park ADDRESS: Ansborough Avenue / Highway 20

Waterloo IA 50701 LAT/LONG: 42.45 / 92.3715 CLIENT: Terracon,Inc. CONTACT: Dave Cleary INQUIRY #: 4443919.2s

DATE: October 21, 2015 11:30 am

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Map ID Direction Distance

Elevation Database EDR ID Number

A1 NW 1/8 - 1/4 Mile

IA WELLS IAPW3000005981

2086192

Not Reported

Lower

Twp:

Rge:

Ew:

Objectid: 5981 Iwellid: 2083120 Wellnmbr: Pmtnmbr:

88 13 W

Sec: Qqqqq: NW, SE, SE, NW, NE

0 Elev:

Elev acc: Not Reported Well depth: 138

Br depth: 0 Wtr depth: 91 Latitude: 42.452 Longitude: -92.3752 Dte done: 01-JAN-50

Cty num:

Black Hawk County: Drlr name: * Unknown Owner name: Bauler, Fred Cnstr mthd: Unknown Fm rmk: Not Reported Well use: Household Status: Plugged Ht pmp no:

Permit: Not Reported Plugging:

Not Reported Not Reported Test: Renovate:

551376.739757 Xcoord: Ycoord: 4700152.33267

Horiz acc: Not Reported Has litho: 0 0 Has prod: 0 Has wq:

Has constr: 0 Wnumber:

Lower

Hlink: https://programs.iowadnr.gov/pwts/ViewReport.aspx?parameters=vchWellNmbr%5ct2083120&reportName=WellPrintout

Site id: IAPW3000005981

NW **IA WELLS** 1/8 - 1/4 Mile

Wellid: 2083120 Mapid: 186153 Id src fld: wellnmbr Datasrc: **PWTS**

Private well tracking system T. 88 N., R. 13W., Sec. 9, NW, SE, SE, NW, NE Well type: Location:

County: Black Hawk Est loc ac: nom. +/- 25m. 01/01/1950 Depth: 138 C p date:

Owner name: Bauler, Fred

Other info: Status: Plugged; Well use: Household

551376.739757 Xcoord: Ycoord: 4700152.33267

Hlink: http://programs.iowadnr.gov/pwts/ViewReport.aspx?parameters=vchWellNmbr%5ct2083120&reportName=WellPrintout

IAPU30000186153

Site id: IAPU30000186153

East IA WELLS IAPU30000186776

C p date:

n.a.

IA WELLS

IA WELLS

IAPU30000186007

IAPW3000051291

1/4 - 1/2 Mile Lower

Mapid: 186776 Wellid: 25327 Id src fld: recordno Datasrc: PLUG

Well type: Registered abandoned wells Location: T. 88 N., R. 13 W., Sec. 9

County: Black Hawk Est loc ac: Calc. +/- 1135m.

Depth: 146

Owner name: Wolfe, Margorie

Other info: Well plugged: 5/1/1996; Well type: < 18" dia.

 Xcoord:
 552102.75

 Ycoord:
 4699950.5

 Hlink:
 Not Reported

 Site id:
 IAPU30000186776

B4 NNW 1/4 - 1/2 Mile Lower

Lower

wer end the second of the seco

Mapid: 186007 Wellid: 2132379 Id src fld: wellnmbr Datasrc: PWTS

Well type: T. 88 N., R. 13W., Sec. 9, NW, NW, NW, NW, NW

 County:
 Black Hawk
 Est loc ac:
 nom. +/- 25m.

 Depth:
 154
 C p date:
 01/01/1950

Owner name: Not Reported

Other info: Status: Inactive; Well use: Household

Xcoord: 551327.616367 Ycoord: 4700514.19767

Hlink: http://programs.iowadnr.gov/pwts/ViewReport.aspx?parameters=vchWellNmbr%5ct2132379&reportName=WellPrintout for the properties of the properties of

Site id: IAPU30000186007

D5

B5 NNW 1/4 - 1/2 Mile

Objectid: 51291 Iwellid: 2155740
Wellnmbr: 2132379 Pmtnmbr: Not Reported

Twp: 88
Rge: 13
Ew: W
Sec: 9

Qqqqq: NW, NW, NW, NW, NW

Elev: 0

Elev acc: Not Reported

Well depth: 154

 Br depth:
 0

 Wtr depth:
 118

 Latitude:
 42.455262

 Longitude:
 -92.375765

 Dte done:
 01-JAN-50

Cty num: County: Black Hawk Drlr name: Not Reported Not Reported Owner name: Cnstr mthd: Unknown Fm rmk: Not Reported Well use: Household Status: Inactive Ht pmp no: 0

Permit: Not Reported Plugging: X

Renovate: Not Reported Test: Not Reported

Xcoord: 551327.616367 Ycoord: 4700514.19767

Horiz acc: Not Reported Has litho: 0
Has prod: 0 Has wq: 0

Has constr: 0 Wnumber: 0

Hlink: https://programs.iowadnr.gov/pwts/ViewReport.aspx?parameters=vchWellNmbr%5ct2132379&reportName=WellPrintout

Site id: IAPW30000051291

1/4 - 1/2 Mile Lower

 Objectid:
 41668
 Iwellid:
 2133791

 Wellnmbr:
 2116973
 Pmtnmbr:
 Not Reported

 Twp:
 88

 Rge:
 13

 Ew:
 W

 Sec:
 8

Qqqqq: NE, NE, NE, SW, NE

Elev: 0

Elev acc: Not Reported

 Well depth:
 186

 Br depth:
 0

 Wtr depth:
 90

 Latitude:
 42.456

 Longitude:
 -92.3767

 Dte done:
 01-JAN-74

Cty num: 7

County: Black Hawk
Drlr name: Not Reported
Owner name: Not Reported
Cnstr mthd: Unknown
Fm rmk: Not Reported
Well use: Household
Status: Plugged

Ht pmp no: 0

Permit: Not Reported Plugging: X

Renovate: Not Reported Test: Not Reported

Xcoord: 551250.134098 Ycoord: 4700595.57894

Horiz acc: Not Reported Has litho: 0
Has prod: 0 Has wq: 0

Has constr: 0 Wnumber: 0

Hlink: https://programs.iowadnr.gov/pwts/ViewReport.aspx?parameters=vchWellNmbr%5ct2116973&reportName=WellPrintout

Site id: IAPW30000041668

NNW IA WELLS IAPU30000185888 1/4 - 1/2 Mile

Lower

Mapid: 185888 Wellid: 2116973 ld src fld: wellnmbr Datasrc: PWTS

Well type: Private well tracking system Location: T. 88 N., R. 13W., Sec. 8, NE, NE, NE, SW, NE

 County:
 Black Hawk
 Est loc ac:
 nom. +/- 25m.

 Depth:
 186
 C p date:
 01/01/1974

Owner name: Not Reported
Other info: Status: Plugged; Well use: Household

Xcoord: 551250.134098 Ycoord: 4700595.57894

Hlink: http://programs.iowadnr.gov/pwts/ViewReport.aspx?parameters=vchWellNmbr%5ct2116973&reportName=WellPrintout

Site id: IAPU30000185888

8 ESE IA WELLS IAPU30000187565

1/2 - 1 Mile

LowerMapid: 187565 Wellid: 13538

Id src fld:wnumberDatasrc:GEOUWell type:IGS well databaseLocation:T. 88N., R. 13W., Sec. 10, SW, SW, NW, SE

County:Black HawkEst loc ac:Not ReportedDepth:200C p date:05/03/1962

Owner name: HAMER, O.L.

Other info: Bedrock depth: 154; Well type: Private

Xcoord: 553054.04 Ycoord: 4699417.81

Hlink: http://www.igsb.uiowa.edu/webapps/geosam/Scripts/geocard.asp?wnumber=13538

Site id: IAPU30000187565

C9
NW
IA WELLS IAUS2000002123

NW 1/2 - 1 Mile Lower

Maplabelna: Sunnyside Country Club-W3512

Legendtype: 39 Publicview: 0

 Locid:
 20000320919

 Stfacid:
 311257946

 Progid:
 6488

Facname: Sunnyside Country Club

Opstatus: Drilled Pistartdat: 20-SEP-06

Subname: W3512

Subprogid: 7411 Subaltidnu: Not Reported

Wellname: Not Reported

Wellstatus: Not Reported

Totaldepth: 180

Drilldate: 30-DEC-99 Aquifertyp: Devonian (Includes Cedar Valley)

Aquiferran: Primary Countyname: Black Hawk

Fo: 1 Accuracy: 20

Colmthtxt: INTERPOLATION-PHOTO Refpnttxt: CENTER OF FACILITY

Verifytxt: Not Reported Collectby: MAnderso

Coldate: 09-NOV-04

Loccomment: First point clicked in WUSE map applet
Congress: 1 Sthouse:

Stsenate: 31 Huc: 070802050403

Hyperlink: http://programs.iowadnr.gov/wateruse/

Lat: 42.46115 Lon: -92.38276 Xcoord: 550747 Ycoord: 4701164

Site id: IAUS20000002123

C10 NW IA WELLS IAPU30000185294

62

1/2 - 1 Mile Lower

Mapid: 185294 Wellid: W3512 Id src fld: subname Datasrc: WTRU

Well type: Water Use Permit Wells Location: T88N, R13W, Sec. 5, SE, NW, SE

County: Black Hawk Est loc ac: +/-20
Depth: 180 C p date: Not Reported

Owner name: Sunnyside Country Club

Other info: Water Use Permit 6488; Primary use: Golf course

Xcoord: 550747 Ycoord: 4701164

Hlink: https://facilityexplorer.iowadnr.gov/FacilityExplorer/SiteDetail.aspx?facID=311257946

Site id: IAPU30000185294

C11 NW IA WELLS IAPU30000185289

1/2 - 1 Mile Lower

Mapid: 185289 Wellid: 38375 Id src fld: wnumber Datasrc: GEOU

Well type: IGS well database Location: T. 88N., R. 13W., Sec. 5, SE, NW, SE, SW

 County:
 Black Hawk
 Est loc ac:
 Calc. +/- 140 m.

 Depth:
 180
 C p date:
 01/01/1969

Owner name: SUNNYSIDE COUNTRY CLUB

 Other info:
 Well type: Irrigation

 Xcoord:
 550746.447508

 Ycoord:
 4701165.99684

Hlink: http://www.igsb.uiowa.edu/webapps/geosam/Scripts/geocard.asp?wnumber=38375

Site id: IAPU30000185289

12 NNE 1/2 - 1 Mile Lower

IA WELLS IAPW30000103428

 Objectid:
 103428
 Iwellid:
 2255595

 Wellnmbr:
 2175589
 Pmtnmbr:
 41722

 Twp:
 88

 Rge:
 13

 Ew:
 W

 Sec:
 4

Qqqqq: NW, SW, NE, NW, SW

Elev: 0

Elev acc: Not Reported

Well depth: 156
Br depth: 0
Wtr depth: 0

Latitude: 42.4637947083 Longitude: -92.3677062988 Dte done: 17-JUN-14

Cty num: 7

County: Black Hawk

Drlr name: Geothermal Eco Options Inc.

Owner name: Renz, Bob
Cnstr mthd: Not Reported
Fm rmk: Not Reported
Well use: Heat pump
Status: Active Log

Ht pmp no: 6

Permit: X Plugging: Not Reported Renovate: Not Reported Test: Not Reported

Xcoord: 551983.185444 Ycoord: 4701466.56065

Horiz acc: Not Reported Has litho: 1
Has prod: 0 Has wq: 0

Has constr: 0 Wnumber: 0

Hlink: https://programs.iowadnr.gov/pwts/ViewReport.aspx?parameters=vchWellNmbr%5ct2175589&reportName=WellPrintout

Site id: IAPW30000103428

13 NW IA WELLS IAPU30000185199 1/2 - 1 Mile

Lower

Mapid: 185199 Wellid: 22189 Id src fld: wnumber Datasrc: GEOU

Well type: IGS well database Location: T. 88N., R. 13W., Sec. 5, SE, SW, NW, NE

County: Black Hawk Est loc ac: Not Reported Depth: C p date: 02/08/1969

Owner name: SUNNYSIDE COUNTRY CLUB

Other info: Bedrock depth: 145; Well type: Public access

Xcoord: 550605.13 Ycoord: 4701066.42

Hlink: http://www.igsb.uiowa.edu/webapps/geosam/Scripts/geocard.asp?wnumber=22189

Site id: IAPU30000185199

C14
NW IA WELLS IAUS20000001411

1/2 - 1 Mile Lower

Maplabelna: Sunnyside Country Club-W3513

Legendtype: Publicview: 0

Locid: 20000320920 Stfacid: 311257946 Progid: 6488

Facname: Sunnyside Country Club

Opstatus: Drilled Pistartdat: 20-SEP-06

Subname: W3513

Subprogid: Subaltidnu: 7412 Not Reported

Wellname: Not Reported Wellstatus: Not Reported

Totaldepth: 180

30-DEC-99 Drilldate: Aquifertyp: Devonian (Includes Cedar Valley)

Aquiferran: Countyname: Black Hawk Primary

Fo: Accuracy: 20

INTERPOLATION-PHOTO CENTER OF FACILITY Colmthtxt: Refpnttxt: MAnderso

Verifytxt: Not Reported Collectby:

09-NOV-04 Coldate:

Loccomment: First point clicked in WUSE map applet Sthouse:

Congress: 62

Stsenate: 070802050403 Huc:

Hyperlink: http://programs.iowadnr.gov/wateruse/

Lat: 42.46168 Lon: -92.38219 550794 Xcoord: Ycoord: 4701224

Site id: IAUS20000001411

C15 **IA WELLS** IAPU30000185336

1/2 - 1 Mile Lower

1/2 - 1 Mile

Mapid: 185336 Wellid: W3513 Id src fld: subname Datasrc: **WTRU**

Water Use Permit Wells T88N, R13W, Sec. 5, SE, NW, SE Well type: Location:

County: Black Hawk Est loc ac: +/-20

C p date: Depth: 180 Not Reported

Owner name: Sunnyside Country Club

Other info: Water Use Permit 6488; Primary use: Golf course

550794 Xcoord: 4701224 Ycoord:

Hlink: https://facilityexplorer.iowadnr.gov/FacilityExplorer/SiteDetail.aspx?facID=311257946

Site id: IAPU30000185336

C16 **IA WELLS** IAPU30000185324

Lower

Mapid: 185324 Wellid: 38376 **GEOU** Id src fld: wnumber Datasrc:

Well type: IGS well database Location: T. 88N., R. 13W., Sec. 5, SE, NW, SE, NE

County: Black Hawk Est loc ac: Calc. +/- 140 m. C p date: Depth: 180 01/01/1969

Owner name: SUNNYSIDE COUNTRY CLUB

Other info: Well type: Irrigation Xcoord: 550793.624582 Ycoord: 4701224.97149

Hlink: http://www.igsb.uiowa.edu/webapps/geosam/Scripts/geocard.asp?wnumber=38376

Site id: IAPU30000185324

AREA RADON INFORMATION

State Database: IA Radon

Radon Test Results

Zipcode	Num Tests	Minimum	Maximum	Average
				
50701	294	0.1	20.2	4.5

Federal EPA Radon Zone for BLACK HAWK County: 1

Note: Zone 1 indoor average level > 4 pCi/L.

: Zone 2 indoor average level >= 2 pCi/L and <= 4 pCi/L.

: Zone 3 indoor average level < 2 pCi/L.

Federal Area Radon Information for Zip Code: 50701

Number of sites tested: 13

Area Average Activity % <4 pCi/L % 4-20 pCi/L % >20 pCi/L Living Area - 1st Floor Not Reported Not Reported Not Reported Not Reported Living Area - 2nd Floor Not Reported Not Reported Not Reported Not Reported Basement 6.423 pCi/L 31% 62% 8%

PHYSICAL SETTING SOURCE RECORDS SEARCHED

TOPOGRAPHIC INFORMATION

USGS 7.5' Digital Elevation Model (DEM)

Source: United States Geologic Survey

EDR acquired the USGS 7.5' Digital Elevation Model in 2002 and updated it in 2006. The 7.5 minute DEM corresponds to the USGS 1:24,000- and 1:25,000-scale topographic quadrangle maps. The DEM provides elevation data with consistent elevation units and projection.

Current USGS 7.5 Minute Topographic Map Source: U.S. Geological Survey

HYDROLOGIC INFORMATION

Flood Zone Data: This data, available in select counties across the country, was obtained by EDR in 2003 & 2011 from the Federal Emergency Management Agency (FEMA). Data depicts 100-year and 500-year flood zones as defined by FEMA.

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002, 2005 and 2010 from the U.S. Fish and Wildlife Service.

HYDROGEOLOGIC INFORMATION

AQUIFLOW^R Information System

Source: EDR proprietary database of groundwater flow information

EDR has developed the AQUIFLOW Information System (AIS) to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted to regulatory authorities at select sites and has extracted the date of the report, hydrogeologically determined groundwater flow direction and depth to water table information.

GEOLOGIC INFORMATION

Geologic Age and Rock Stratigraphic Unit

Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - A digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).

STATSGO: State Soil Geographic Database

Source: Department of Agriculture, Natural Resources Conservation Services

The U.S. Department of Agriculture's (USDA) Natural Resources Conservation Service (NRCS) leads the national Conservation Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. Soil maps for STATSGO are compiled by generalizing more detailed (SSURGO) soil survey maps.

SSURGO: Soil Survey Geographic Database

Source: Department of Agriculture, Natural Resources Conservation Services (NRCS)

Telephone: 800-672-5559

SSURGO is the most detailed level of mapping done by the Natural Resources Conservation Services, mapping scales generally range from 1:12,000 to 1:63,360. Field mapping methods using national standards are used to construct the soil maps in the Soil Survey Geographic (SSURGO) database. SSURGO digitizing duplicates the original soil survey maps. This level of mapping is designed for use by landowners, townships and county natural resource planning and management.

PHYSICAL SETTING SOURCE RECORDS SEARCHED

LOCAL / REGIONAL WATER AGENCY RECORDS

FEDERAL WATER WELLS

PWS: Public Water Systems

Source: EPA/Office of Drinking Water

Telephone: 202-564-3750

Public Water System data from the Federal Reporting Data System. A PWS is any water system which provides water to at least 25 people for at least 60 days annually. PWSs provide water from wells, rivers and other sources.

PWS ENF: Public Water Systems Violation and Enforcement Data

Source: EPA/Office of Drinking Water

Telephone: 202-564-3750

Violation and Enforcement data for Public Water Systems from the Safe Drinking Water Information System (SDWIS) after August 1995. Prior to August 1995, the data came from the Federal Reporting Data System (FRDS).

USGS Water Wells: USGS National Water Inventory System (NWIS)

This database contains descriptive information on sites where the USGS collects or has collected data on surface water and/or groundwater. The groundwater data includes information on wells, springs, and other sources of groundwater.

STATE RECORDS

All Known Water Wells in the State of Iowa Source: Department of Natural Resources

Telephone: 319-335-1353

Well types included are agricultural drainage, permitted private, public, registered abandoned, SDWIS public, water use permit sites, wells registered for testing.

Permitted Private Wells

Source: Department of Natural Resources

Telephone: 319-335-1353

This is a point coverage for private wells for which permits have been issued since 1987. Most permits were recorded in counties which are in the state drinking water program.

Private Well Tracking System Wells

Source: Department of Natural Resources

Telephone: 319-335-1353

OTHER STATE DATABASE INFORMATION

Oil and Gas Well Database

Source: Department of Natural Resources

Oil and gas well locations.

RADON

State Database: IA Radon

Source: Department of Public Health

Telephone: 515-281-4340 Radon Test Results

Area Radon Information

Source: USGS

Telephone: 703-356-4020

The National Radon Database has been developed by the U.S. Environmental Protection Agency

(USEPA) and is a compilation of the EPA/State Residential Radon Survey and the National Residential Radon Survey. The study covers the years 1986 - 1992. Where necessary data has been supplemented by information collected at

private sources such as universities and research institutions.

PHYSICAL SETTING SOURCE RECORDS SEARCHED

EPA Radon Zones Source: EPA

Telephone: 703-356-4020

Sections 307 & 309 of IRAA directed EPA to list and identify areas of U.S. with the potential for elevated indoor

radon levels.

OTHER

Airport Landing Facilities: Private and public use landing facilities

Source: Federal Aviation Administration, 800-457-6656

Epicenters: World earthquake epicenters, Richter 5 or greater

Source: Department of Commerce, National Oceanic and Atmospheric Administration

Earthquake Fault Lines: The fault lines displayed on EDR's Topographic map are digitized quaternary faultlines, prepared

in 1975 by the United State Geological Survey

STREET AND ADDRESS INFORMATION

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APPENDIX E CREDENTIALS

DAVE C. CLEARY, REM

ENVIRONMENTAL MANAGER

PROFESSIONAL EXPERIENCE

Mr. Cleary has more than twenty years of experience in the construction industry and currently serves as the environmental department manager in Terracon's Cedar Falls, Iowa office. Mr. Cleary manages Phase I Environmental Site Assessments (ESAs), site investigations, remediation projects, cultural resource assessments, threatened and endangered species surveys, wetland delineations, wetland mitigation, wetland monitoring, and asbestos surveys. Mr. Cleary has worked with numerous local municipalities and developers across Iowa to evaluate permitting processes and application of various site developments.

Mr. Cleary has supervised, managed, planned and conducted site investigations and remediation projects on various types of sites including; leaking underground storage tank sites, ethanol facilities, agricultural facilities, manufacturing facilities, state voluntary cleanup sites, Brownfield sites and RCRA corrective action sites. He has experience pertaining to soil and groundwater impacted by various contaminants including petroleum hydrocarbons, chlorinated and non-chlorinated solvents, pesticides, PCBs, and RCRA metals.

PROJECT EXPERIENCE

Phase I Environmental Site Assessment – Iowa

Mr. Cleary began performing Phase I Enviromental Site Assessment and environmental services in 1999 and has managed or conducted over 350 Phase I Environmental Site Assessments and over 200 Site Investigaitons. Assessments have included many different types of facilities and clients including Grand Crossing, River Place, confidential multi-site agricultural chemical facilities, lowa Industrial Products, Agriprocessors, Inc., Former Waterloo Industries, Cedar Valley Tech Works, Grainger Service Center, Flint Hills Resources, ethanol facilities, Covenant Health Systems, NorthBridge Redevelopment Project, Featherlite Industries, Dollar General, Rabo AgriFinance, Lincoln Savings Bank, NSB Bank, Verizon, Harrison Truck Centers

Asbestos and Lead-based Paint Surveys – Iowa

Performed asbestos and lead-based paint surveys on dormatories, commercial, bridges and residential structures.

Remediation Project Management – Iowa

Served as project manager for remediation projects of various sizes and scopes across lowa. Has supervised the installation and operation of groundwater extraction, soil vapor extraction, in-situ chemical oxidation, UST removal and closure sampling, monitoring well stallation and soil excavation projects.

Wetland, Cultural Resources, T & É Project Management – Iowa Performed wetland, cultural resources, threatened and endangered species services for proposed public transportation projects and private development projects in northeast Iowa. Coordinated with the state and federal agencies.

EDUCATION

Construction Technology, 1986-1987, University of Northern Iowa

Associate of Applied Science Degree, Civil Engineering, 1989, Hawkeye Institute of Technology

CERTIFICATIONS

REM, Registered Environmental Manager, National Registry of Environmental Professionals

IDNR Well Contractor Operator

IDNR Licensed UST Remover

IDOT, Certified Aggregate Inspector, Level II

IDOT Certified PCC Plant Inspector, Level II

Hazardous Waste Site Supervisor, 2009

OSHA 40-Hour HAZWOPER Training

State of Iowa Licensed Asbestos Inspector

Radiation Safety Training

ACI and IDOT Concrete Field Technician Level I

F-Number Measurement

Army Corp of Engineers Wetland Delineation and Management Training, Richard Chinn Environmental Training, Inc.

NICET Certified Level III in Soils and Concrete Subfields of Construction and Materials Testing

NICET Certified Level II in Generalist and Construction Subfields of Geotechnical Engineering Technology

AFFILIATIONS

Diamonds and Fields Society of Wetland Scientists

WORK HISTORY

Terracon, Environmental Department Manager, 2007- present; Project Manager, 2001-2007; Engineering Technician 2001-1988









DENNIS R. SENSENBRENNER, P.G., C.G.P. ENVIRONMENTAL DEPT. MNGR/ Senior Associate

PROFESSIONAL EXPERIENCE

Mr. Sensenbrenner is a Nebraska Certified Professional Geologist and an Iowa-Certified Groundwater Professional with over 30 years professional experience. He manages the Des Moines, Iowa office Environmental Department overseeing highly complex hydrological site characterizations including aquifer response testing, Phase I & Phase II ESA's, closure investigations, RBCA Tier 1/Tier 2/Tier 3's, and remedial system design and installations for Ag chemical, petroleum hydrocarbon and chlorinated solvent sites throughout the Midwest. Other duties include management of asbestos and lead base paint inspection projects and air quality monitoring projects. Mr. Sensenbrenner is a Terracon Authorized Project Reviewer (APR) for Phase 1/2's and Remediation Projects.

PHASE I/II EXPERIENCE

Brownfield Projects

- Coralville, Iowa –APR for Phase 1/2 and Checklists.
- **Dubuque**, **Iowa** –APR for Phase 1/2, Checklists and Remedial cleanup strategies on the Ice Harbor project.
- Former Pitt/Des Moines Steel Remedial Cleanup

Mr. Sensenbrenner serves as an APR for Brownfield projects including Phase 1s, Phase 2s, and Property-Specific Sampling and Analysis Checklists. Over the last 12 years, Mr. Sensenbrenner has been the APR on over 1,500 Phase 1/Phase 2 projects.

Fort Dodge Multi-Purpose Trails Project Phase I/II ESA – Fort Dodge, Iowa

Terracon partnered with the Rock Island District of the United States Army Corps of Engineers to provide Phase I environmental site assessment and Phase II site assessment with preliminary geotechnical drilling and sampling for the Central Riverfront, Sunkist Meadows, Low Dam, and Westbluff neighborhoods. The following trails are included in the project area: Central Riverfront, Sunkist Meadows, Sunkist Meadows East option, Low Dam, Karl King Bridge option, Sunkist Meadow Bridge Option, Low Dam Bridge Option, and Westbluff Neighborhood Wayfinding Option. The site is a 354-acre tract of land extending approximately 3.2 miles that has been improved with some perimeter roads. Fees: approximately \$45,000 for Phase I ESA and approximately \$58,958 for the Phase II assessment.

Phase I/II Site Assessment Southeast Connector, SE 14th to US Highway 65 – Des Moines, Iowa: Terracon conducted site investigations on potential contamination sites located within or adjacent to the proposed improvement corridor. Potential contamination sites will be photographed, and interviews with property owners will be conducted as necessary. The consultant will review available regulatory files and records for sites determined to have a potential for contamination, as well as review local property appraiser records for each site to verify legal site ownership and previous owners.

Education

B.S., Geology, 1980, University of Louisville, Louisville, KY

Geology Field Camp, 1980, University of Kentucky, Lexington, KY

Registrations/Certifications

Licensed Professional Geologist, Nebraska, #G-0209 Certified Groundwater Professional, Iowa #1066

EPA Accredited, AHERA Certified Building Inspector, Asbestos Inspector, Iowa #13-1364I

OSHA 29 CFR 1910.120, 40-hour Hazardous Waste Site Operations Training

OSHA 29 CFR 1910-120, Hazwoper Refresher courses, 1989 to Present

OSHA 29 CFR 1910-120 (e), (4), Hazardous Waste Supervisor Training

OSHA 29 CFR 1910.146 (h), (I), (J), Confined Space Entry Training

OSHA 29 CFR 1910.120, 10-hour Construction, Trenching and Excavation Training

Affiliations

Terracon Remediation PRG
Terracon APR for Phase 1s
Terracon APR for Phase 2s
Terracon APR for Remediation
Environmental Professionals of Iowa (EPI)
Iowa Groundwater Association (IGWS)
Leadership Network of Des Moines (Past President)
West Site Breakfast Network Group (Past President)

Work History

Terracon, Environmental Department Mngr. 2005 - Present

Terracon, Sr. Hydrogeologist, 2003-2005

Apex Environmental, Sr. Project Manager, 1996-2003

Seneca Environmental Services, Senior Hydrogeologist/Group Leader, 1990-1996

Geotechnical Services, Project Geologist/Manager, 1988-1990

Waste Deposit Impact Committee, Hereford, Texas, Geotechnical and Environmental Program Manager, 1987-1988

High Plains Underground Water Conservation District #1, Lubbock, Texas, Resident Geologist/Inspector, 1986-1987

Exploration Logging of U.S.A., Senior Wellsite Geologist & Petroleum Technologist, 1982-1986



APPENDIX F DESCRIPTION OF TERMS AND ACRONYMS

Description of Selected General Terms and Acronyms

Term/Acronym	Description
ACM	Asbestos Containing Material. Asbestos is a naturally occurring mineral, three varieties of which (chrysotile, amosite, crocidolite) have been commonly used as fireproofing or binding agents in construction materials. Exposure to asbestos, as well as ACM, has been documented to cause lung diseases including asbestosis (scarring of the lung), lung cancer and mesothelioma (a cancer of the lung lining).
	Regulatory agencies have generally defined ACM as a material containing greater that one (1) percent asbestos, however some states (e.g. California) define ACM as materials having 0.1% asbestos. In order to define a homogenous material as non-ACM, a minimum number of samples must be collected from the material dependent upon its type and quantity. Homogenous materials defined as non-ACM must either have 1) no asbestos identified in all of its samples or 2) an identified asbestos concentration below the appropriate regulatory threshold. Asbestos concentrations are generally determined using polarized light microscopy or transmission electron microscopy. Point counting is an analytical method to statistically quantify the percentage of asbestos in a sample. The asbestos component of ACM may either be friable or non-friable. Friable materials, when dry, can be crumbled, pulverized, or reduced to powder by hand pressure and have a higher potential for a fiber release than non-friable ACM. Non-friable ACM are materials that are firmly bound in a matrix by plastic, cement, etc. and, if handled carefully, will not become friable.
	Federal and state regulations require that either all suspect building materials be presumed ACM or that an asbestos survey be performed prior to renovation, dismantling, demolition, or other activities that may disturb potential ACM. Notifications are required prior to demolition and/or renovation activities that may impact the condition of ACM in a building. ACM removal may be required if the ACM is likely to be disturbed or damaged during the demolition or renovation. Abatement of friable or potentially friable ACM must be performed by a licensed abatement contractor in accordance with state rules and NESHAP. Additionally, OSHA regulations for work classification, worker training and worker protection will apply.
AHERA	Asbestos Hazard Emergency Response Act
AST	Aboveground Storage Tanks. ASTs are generally described as storage tanks less than 10% of which are below ground (i.e., buried). Tanks located in a basement, but not buried, are also considered ASTs. Whether, and the extent to which, an AST is regulated, is determined on a case-by-case basis and depends upon tank size, its contents and the jurisdiction of its location.
BGS	Below Ground Surface
Brownfields	State and/or tribal listing of Brownfield properties addressed by Cooperative Agreement Recipients or Targeted Brownfields Assessments.
BTEX	Benzene, Toluene, Ethylbenzene, and Xylenes. BTEX are VOC components found in gasoline and commonly used as analytical indicators of a petroleum hydrocarbon release.
CERCLA	Comprehensive Environmental Response, Compensation and Liability Act (a.k.a. Superfund). CERCLA is the federal act that regulates abandoned or uncontrolled hazardous waste sites. Under this Act, joint and several liability may be imposed on potentially responsible parties for cleanup-related costs.
CERCLIS	Comprehensive Environmental Response, Compensation and Liability Information System. An EPA compilation of sites having suspected or actual releases of hazardous substances to the environment. CERCLIS also contains information on site inspections, preliminary assessments and remediation of hazardous waste sites. These sites are typically reported to EPA by states and municipalities or by third parties pursuant to CERCLA Section 103.
CESQG	Conditionally exempt small quantity generators.
CFR	Code of Federal Regulations

Description of Selected General Terms and Acronyms (cont.)

Term/Acronym	Description
CREC	Controlled Recognized Environmental Condition is defined in ASTM E1527-13 as "a recognized environmental condition resulting from a past release of hazardous substances or petroleum products that has been addressed to the satisfaction of the applicable regulatory authority (for example, as evidenced by the issuance of a no further action letter or equivalent, or meeting risk-based criteria established by regulatory authority), with hazardous substances or petroleum products allowed to remain in place subject to the implementation of required controls (for example, property use restrictions, activity and use limitations, institutional controls, or engineering controls). A condition considered by the environmental professional to be a controlled recognized environmental condition shall be listed in the findings section of the Phase I Environmental Site Assessment report, and as a recognized environmental condition in the conclusions section of the Phase I Environmental Site Assessment report."
DOT	U.S. Department of Transportation
EPA	U.S. Environmental Protection Agency
ERNS	Emergency Response Notification System. An EPA-maintained federal database which stores information on notifications of oil discharges and hazardous substance releases in quantities greater than the applicable reportable quantity under CERCLA. ERNS is a cooperative datasharing effort between EPA, DOT, and the National Response Center.
ESA	Environmental Site Assessment
FRP	Fiberglass Reinforced Plastic
Hazardous Substance	As defined under CERCLA, this is (A) any substance designated pursuant to section 1321(b)(2)(A) of Title 33, (B) any element, compound, mixture, solution, or substance designated pursuant to section 9602 of this title; (C) any hazardous waste having characteristics identified under or listed pursuant to section 3001 of the Solid Waste Disposal Act (with some exclusions); (D) any toxic pollutant listed under section 1317(a) of Title 33; (E) any hazardous air pollutant listed under section 112 of the Clean Air Act; and (F) any imminently hazardous chemical substance or mixture with respect to which the EPA Administrator has taken action under section 2606 of Title 15. This term does not include petroleum, including crude oil or any fraction thereof which is not otherwise listed as a hazardous substance under subparagraphs (A) through (F) above, and the term include natural gas, or synthetic gas usable for fuel (or mixtures of natural gas and such synthetic gas).
Hazardous Waste	This is defined as having characteristics identified or listed under section 3001 of the Solid Waste Disposal Act (with some exceptions). RCRA, as amended by the Solid Waste Disposal Act of 1980, defines this term as a "solid waste, or combination of solid wastes, which because of its quantity, concentration, or physical, chemical, or infectious characteristics may (A) cause, or significantly contribute to an increase in mortality or an increase in serious irreversible, or incapacitating reversible illness; or (B) pose a substantial present or potential hazard to human health or the environment when improperly treated, stored, transported, or disposed of, or otherwise managed."
HREC	Historical Recognized Environmental Condition is defined in ASTM E1527-13 as "a past release of any hazardous substances or petroleum products that has occurred in connection with the property and has been addressed to the satisfaction of the applicable regulatory authority or meeting unrestricted residential use criteria established by a regulatory authority, without subjecting the property to any required controls (for example, property use restrictions, activity and use limitations, institutional controls, or engineering controls). Before calling the past release a historical recognized environmental condition, the environmental professional must determine whether the past release is a recognized environmental condition at the time of the Phase I Environmental Site Assessment is conducted (for example, if there has been a change in the regulatory criteria). If the EP considers the past release to be a recognized environmental condition at the time the Phase I ESA is conducted, the condition shall be included in the conclusions section of the report as a recognized environmental condition."

IC/EC	A listing of sites with institutional and/or engineering controls in place. IC include administrative measures, such as groundwater use restrictions, construction restrictions, property use restrictions, and post remediation care requirements intended to prevent exposure to contaminants remaining on site. Deed restrictions are generally required as part of the institutional controls. EC include various forms of caps, building foundations, liners, and treatment methods to create pathway elimination for regulated substances to enter environmental media or effect human health.
ILP	Innocent Landowner/Operator Program
LQG	Large quantity generators.
LUST	Leaking Underground Storage Tank. This is a federal term set forth under RCRA for leaking USTs. Some states also utilize this term.
MCL	Maximum Contaminant Level. This Safe Drinking Water concept (and also used by many states as a ground water cleanup criteria) refers to the limit on drinking water contamination that determines whether a supplier can deliver water from a specific source without treatment.
MSDS	Material Safety Data Sheets. Written/printed forms prepared by chemical manufacturers, importers and employers which identify the physical and chemical traits of hazardous chemicals under OSHA's Hazard Communication Standard.
NESHAP	National Emissions Standard for Hazardous Air Pollutants (Federal Clean Air Act). This part of the Clean Air Act regulates emissions of hazardous air pollutants.
NFRAP	Facilities where there is "No Further Remedial Action Planned," as more particularly described under the Records Review section of this report.
NOV	Notice of Violation. A notice of violation or similar citation issued to an entity, company or individual by a state or federal regulatory body indicating a violation of applicable rule or regulations has been identified.
NPDES	National Pollutant Discharge Elimination System (Clean Water Act). The federal permit system for discharges of polluted water.
NPL	The NPL is the EPA's database of uncontrolled or abandoned hazardous waste facilities that have been listed for priority remedial actions under the Superfund Program.
OSHA	Occupational Safety and Health Administration or Occupational Safety and Health Act
PACM	Presumed Asbestos-Containing Material. A material that is suspected of containing or presumed to contain asbestos but which has not been analyzed to confirm the presence or absence of asbestos.

Description of Selected General Terms and Acronyms (cont.)

Term/Acronym	Description
PCB	Polychlorinated Biphenyl. A halogenated organic compound commonly in the form of a viscous liquid or resin, a flowing yellow oil, or a waxy solid. This compound was historically used as dielectric fluid in electrical equipment (such as electrical transformers and capacitors, electrical ballasts, hydraulic and heat transfer fluids), and for numerous heat and fire sensitive applications. PCB was preferred due to its durability, stability (even at high temperatures), good chemical resistance, low volatility, flammability, and conductivity. PCBs, however, do not break down in the environment and are classified by the EPA as a suspected carcinogen. 1978 regulations, under the Toxic Substances Control Act, prohibit manufacturing of PCB-containing equipment; however, some of this equipment may still be in use today.
pCi/L	Pico Curies per Liter of Air. Unit of measurement for Radon and similar radioactive materials.
PLM	Polarized Light Microscopy (see ACM section of the report, if included in the scope of services)
PST	Petroleum Storage Tank. An AST or UST that contains a petroleum product.
Radon	A radioactive gas resulting from radioactive decay of naturally-occurring radioactive materials in rocks and soils containing uranium, granite, shale, phosphate, and pitchblende. Radon concentrations are measured in Pico Curies per Liter of Air. Exposure to elevated levels of radon creates a risk of lung cancer; this risk generally increases as the level of radon and the duration of exposure increases. Outdoors, radon is diluted to such low concentrations that it usually does not present a health concern. However, radon can accumulate in building basements or similar enclosed spaces to levels that can pose a risk to human health. Indoor radon concentrations depend primarily upon the building's construction, design and the concentration of radon in the underlying soil and ground water. The EPA recommended annual average indoor "action level" concentration for residential structures is 4.0 pCi/l.
RCRA	Resource Conservation and Recovery Act. Federal act regulating solid and hazardous wastes from point of generation to time of disposal ('cradle to grave'). 42 U.S.C. 6901 et seq.
RCRA Generators	The RCRA Generators database, maintained by the EPA, lists facilities that generate hazardous waste as part of their normal business practices. Generators are listed as either large (LQG), small (SQG), or conditionally exempt (CESQG). LQG produce at least 1000 kg/month of non-acutely hazardous waste. SQG produce 100-1000 kg/month of non-acutely hazardous waste. CESQG are those that generate less than 100 kg/month of non-acutely hazardous waste.
RCRA CORRACTS/TS Ds	The USEPA maintains a database of RCRA facilities associated with treatment, storage, and disposal (TSD) of hazardous materials which are undergoing "corrective action". A "corrective action" order is issued when there is a release of hazardous waste or constituents into the environment from a RCRA facility.
RCRA Non- CORRACTS/TS Ds	The RCRA Non-CORRACTS/TSD Database is a compilation by the USEPA of facilities which report storage, transportation, treatment, or disposal of hazardous waste. Unlike the RCRA CORRACTS/TSD database, the RCRA Non-CORRACTS/TSD database does not include RCRA facilities where corrective action is required.
RCRA Violators List	RAATS. RCRA Administrative Actions Taken. RAATS information is now contained in the RCRIS database and includes records of administrative enforcement actions against facilities for noncompliance.
RCRIS	Resource Conservation and Recovery Information System, as defined in the Records Review section of this report.
REC	Recognized Environmental Conditions are defined by ASTM E1527-13 as "the presence or likely presence of any hazardous substances or petroleum products in, on, or at a property: 1)due to any release to the environment; 2) under conditions indicative of a release to the environment. <i>De minimis</i> conditions are not recognized environmental conditions."
SCL	State "CERCLIS" List (see SPL /State Priority List, below).

Description of Selected General Terms and Acronyms (cont.)

Term/Acronym	Description
SPCC	Spill Prevention, Control and Countermeasures. SPCC plans are required under federal law (Clean Water Act and Oil Pollution Act) for any facility storing petroleum in tanks and/or containers of 55-gallons or more that when taken in aggregate exceed 1,320 gallons. SPCC plans are also required for facilities with underground petroleum storage tanks with capacities of over 42,000 gallons. Many states have similar spill prevention programs, which may have additional requirements.
SPL	State Priority List. State list of confirmed sites having contamination in which the state is actively involved in clean up activities or is actively pursuing potentially responsible parties for clean up. Sometimes referred to as a State "CERCLIS" List.
SQG	Small quantity generator.
SWF/LF	State and/or Tribal database of solid waste/Landfill facilities. The database information may include the facility name, class, operation type, area, estimated operational life, and owner.
TPH	Total Petroleum Hydrocarbons
TRI	Toxic Release Inventory. Routine EPA report on releases of toxic chemicals to the environment based upon information submitted by entities subject to reporting under the Emergency Planning and Community Right to Know Act.
TSCA	Toxic Substances Control Act. A federal law regulating manufacture, import, processing and distribution of chemical substances not specifically regulated by other federal laws (such as asbestos, PCBs, lead-based paint and radon). 15 U.S.C 2601 et seq.
USACE	United States Army Corps of Engineers
USC	United States Code
USGS	United States Geological Survey
USNRCS	United States Department of Agriculture-Natural Resource Conservation Service
UST	Underground Storage Tank. Most federal and state regulations, as well as ASTM E1527-13, define this as any tank, incl., underground piping connected to the tank, that is or has been used to contain hazardous substances or petroleum products and the volume of which is 10% or more beneath the surface of the ground (i.e., buried).
VCP	State and/or Tribal facilities included as Voluntary Cleanup Program sites.
VOC	Volatile Organic Compound
Wetlands	Areas that are typically saturated with surface or ground water that creates an environment supportive of wetland vegetation (i.e., swamps, marshes, bogs). The Corps of Engineers Wetlands Delineation Manual (Technical Report Y-87-1) defines wetlands as areas inundated or saturated by surface or ground water at a frequency and duration sufficient to support, and that under normal circumstances do support, a prevalence of vegetation typically adapted for life in saturated soil conditions. For an area to be considered a jurisdictional wetland, it must meet the following criteria: more than 50 percent of the dominant plant species must be categorized as Obligate, Facultative Wetland, or Facultative on lists of plant species that occur in wetlands; the soil must be hydric; and, wetland hydrology must be present.
	The federal Clean Water Act which regulates "waters of the US," also regulates wetlands, a program jointly administered by the USACE and the EPA. Waters of the U.S. are defined as: (1) waters used in interstate or foreign commerce, including all waters subject to the ebb and flow of tides; (2) all interstate waters including interstate wetlands; (3) all other waters such as intrastate lakes, rivers, streams (including intermittent streams), mudflats, sandflats, wetlands, sloughs, prairie potholes, wet meadows, playa lakes, or natural ponds, etc., which the use, degradation, or destruction could affect interstate/ foreign commerce; (4) all impoundments of waters otherwise defined as waters of the U. S., (5) tributaries of waters identified in 1 through 4 above; (6) the territorial seas; and (7) wetlands adjacent to waters identified in 1 through 6 above. Only the USACE has the authority to make a final wetlands jurisdictional determination.