Prepared For

BOULDER COUNTY PARKS AND OPEN SPACE
5201 ST. VRAIN ROAD, BUILDING 1
LONGMONT, CO 80503

PHASE I ENVIRONMENTAL SITE ASSESSMENT AND SOIL SAMPLING REPORT FOR LITTLE GAYNOR LAKE PROPERTY UNINCORPORATED BOULDER COUNTY, COLORADO

Date Issued: March 22, 2022
APEX Project Number 1-0009.184.00

Prepared By
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APEX

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March 22, 2022

Mr. Jeff Moline
Boulder County Parks and Open Space
5201 St. Vrain Road, Building 1
Longmont, CO 80503

Re: Phase I Environmental Site Assessment and Soil Sampling Report, Little Gaynor Lake Area Property, Unincorporated Boulder County, Colorado

Dear Mr. Moline:

Apex Consulting Services, Inc. is pleased to provide the results of our Phase I Environmental Site Assessment and soil sampling at the Little Gaynor Lake Area Property in Unincorporated Boulder County, Colorado (Property). This assessment was performed in accordance with ASTM E 1527-13, Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process.

This assessment included a Property reconnaissance as well as research. An assessment was made, conclusions stated, and recommendations outlined.

We appreciate the opportunity to provide environmental services for this project. If you have any questions concerning this report, or if we can assist you in any other matter, please call.

Sincerely,

APEX CONSULTING SERVICES, INC.

Michael D. Hattel, P.G., R.E.A.
Principal

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EXECUTIVE SUMMARY

Apex Consulting Services, Inc. (APEX) has performed a Phase I Environmental Site Assessment (ESA) in general accordance with ASTM E 1527-13, Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process and Boulder County Parks and Open Space ESA specifications.

The ESA is designed to provide Boulder County Parks and Open Space with an assessment concerning environmental conditions (limited to those issues identified in the report) at the Property. This assessment was conducted utilizing generally accepted ESA industry standards in accordance with ASTM E 1527-13, Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process.

The Little Gaynor Lake Area property is in Unincorporated Boulder County, Colorado (Property). The Property consists of six (6) parcels that total approximately 39 acres of land (Figures 1 and 2 in Appendix A).

Conclusions

APEX has performed an ESA of the Property in conformance with the scope and limitations of ASTM Practice E 1527-13 and Boulder County Parks and Open Space ESA specifications. Any exceptions to or deletions from this practice are described in Section 1.4 of this report. This assessment revealed no recognized environmental conditions (RECs) at the Property.

It should be noted that the report must be read in its entirety to gain a comprehensive understanding of identified environmental conditions at the Property.

1.0 INTRODUCTION

APEX was retained by Boulder County Parks and Open Space to conduct an ESA at the Property. The Property is located in Unincorporated Boulder County, Colorado. The Property consists of 6 parcels that total approximately 39 acres of land. The protocol used for this assessment is in conformance with ASTM E 1527-13, Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process, and Boulder County's IRFP # 2002-22.

On March 8, 2022, Michael Hattel, a representative of APEX, conducted a site reconnaissance to assess the possible presence of petroleum products and hazardous materials at the Property. Also, soil samples were collected from the south shore of Little Gaynor Lake. APEX's investigation included a review of aerial photographs, cultural feature maps and topographic maps, a reconnaissance of adjacent properties, background research, and a review of available local, state, and federal regulatory records regarding the presence of petroleum products and/or hazardous materials at the Property.

APEX contracted Environmental Risk Information Services (ERIS) of Centennial, Colorado, to perform a computer database search for local, state, and Federal regulatory records pertaining to environmental concerns for the Property and properties in the vicinity of the Property (see Section 3.0 and Appendix B).

1.1 Purpose

The purpose of this Phase I Environmental Site Assessment (ESA) was to identify existing or potential RECs as defined by ASTM Standard E-1527-13 in connection with the Property. APEX understands that the findings of this study will be used by Boulder County Parks and Open Space to evaluate the Property.

1.2 Detailed Scope of Services

The scope of work for this ESA is in general accordance with the requirements of ASTM Standard E 1527-13. It also conforms to the Boulder County Parks and Open Space ESA specifications. APEX warrants that the findings and conclusions contained herein were accomplished in accordance with the methodologies set forth in the scope of work. These methodologies are described as representing good commercial and customary practice for conducting an ESA of a property for the purpose of identifying REC's. No other warranties are implied or expressed.

1.3 Significant Assumptions

There is a possibility that even with the proper application of these methodologies there may exist on the Property conditions that could not be identified within the scope of the assessment or which were not reasonably identifiable from the available information. APEX believes that the information obtained from the record review and the interviews concerning the site is reliable. However, APEX cannot and does not warrant or guarantee that the information provided by these other sources is accurate or complete. The methodologies of this assessment are not intended to produce all-inclusive or comprehensive results, but rather to provide Boulder County Parks and Open Space with information relating to the Property.

1.4 Limitations and Exceptions

The findings and conclusions contain all of the limitations inherent in these methodologies that are referred to in ASTM 1527-13.

1.5 Special Terms and Conditions

The conclusions and findings set forth in this report are strictly limited in time and scope to the date of the evaluations. The conclusions presented in the report are based solely on the services described therein, and not on scientific tasks or procedures beyond the scope of agreed-upon services or the time and budgeting restraints imposed by the client. No building material or subsurface exploratory drilling or sampling was performed under the scope of this work. Unless specifically stated otherwise in the report, no chemical analyses have been performed during the course of this ESA. Some of the information provided in this report is based upon personal interviews, and research of available documents, records, and maps held by

the appropriate government and private agencies. This is subject to the limitations of historical documentation, availability, and accuracy of pertinent records and the personal recollections of those persons contacted.

1.6 Use Reliance

All reports, both verbal and written, are for the benefit of Boulder County Parks and Open Space. This report has no other purpose and may not be relied upon by any other person or entity without the written consent of APEX.

2.0 SITE DESCRIPTION

2.1 Location and Legal Description

The Property is comprised of 6 parcels that total approximately 39 acres of land located in Unincorporated Boulder County, Colorado. The majority of the Property is comprised of a lake (Figures 1 and 2 in Appendix A). The legal description (as listed on the Title Policy, and is included in Appendix C) for the Property is:

OUTLOTS A, B, C AND D, HILCREST HEIGHTS REPLAT B, COUNTY OF BOULDER, STATE OF COLORADO.

2.2 Site and Vicinity General Characteristics

The Property is south of Longmont in unincorporated Boulder County, Colorado. Access to the Property is provided by Oxford Road and north 95th Street.

2.3 Current Use of the Property

The Property consists of a lake and vacant agricultural land. Little Gaynor is a small lake south of Longmont and one of only two natural lakes in eastern Boulder County.

2.4 Description of Site Improvements

A storm shelter is located at the northern portion of the Property.

2.5 Current Use of Adjoining Properties

During the vicinity reconnaissance, APEX observed the following land use on the adjoining properties.

Direction	Description
North	Oxford Road/Agricultural Land
South	Agricultural Land
East	Lake and Rural Residential Land
West	North 95th Street/Agricultural Land

3.0 USER PROVIDED INFORMATION

Pursuant to ASTM E 1527-13, APEX requested the following information from the Property owner.

3.1 Title Records

Title Commitment records for the Property were reviewed. The Property is owned by Boulder County (OWNER). No RECs were apparent in the records.

3.2 Environmental Liens or Activity and Use Limitation

APEX requested information regarding knowledge of environmental liens, activity and use limitations for the Property. The Property OWNER was not aware of any environmental liens associated with the Property. In addition, the Property OWNER had no knowledge of any use/activity limitations for the Property.

3.3 Specialized Knowledge

APEX inquired with the Property OWNER regarding any specialized knowledge of environmental conditions associated with the Property. The OWNER had no specialized knowledge of environmental conditions associated with the Property.

3.4 Commonly Known or Reasonably Ascertainable Information

APEX inquired with the Property OWNER and buyer regarding any specialized knowledge of commonly known or reasonable ascertainable information within the local community about the Property that would be material to RECs in connection with the Property. The OWNER or buyer was not aware of any information associated with the Property.

3.5 Valuation Reduction for Environmental Issues

APEX inquired with the OWNERS and buyer regarding any knowledge of reductions in property value due to environmental issues. The OWNERS was not aware of any valuation reductions for the Property.

3.6 Owner, Property Manager, and Occupant Information

The Property manager is Boulder County. The Property consists of approximately 39 acres of land.

3.7 Reason for Performing Phase I ESA

The purpose of this ESA was to identify existing or potential REC's (as defined by ASTM Standard E-1527-13) in connection with the Property. This ESA was also performed to permit the *User* to satisfy one of the requirements to qualify for the *innocent landowner*, *contiguous property owner*, or *bona fide prospective purchaser* limitations on scope of Comprehensive Environmental Response, Compensation and Liability Act (CERCLA) (42 U.S.C. §9601) liability (hereinafter, the "*landowner liability protections*," or "*LLPs*"). ASTM Standard E-1527-13 constitutes "*all appropriate inquiry* into the previous ownership and uses of the *property* consistent with good commercial or customary practice" as defined at 42 U.S.C. §9601(35)(B).

APEX understands that this study will be used by Boulder County Parks and Open Space to evaluate the Property.

4.0 RECORDS REVIEW

4.1 Standard Environmental Record Sources

Information from standard Federal and state environmental record sources was provided through ERIS from governmental agency data lists that are updated and integrated into one database, which is updated as these data are released. A copy of the database is included in Appendix B.

This integrated database also contains postal service data in order to enhance address matching. Records from one government source are compared to records from another to clarify any address ambiguities. The demographic and geographic information available provides assistance in identifying and managing risk.

In some cases, location information supplied by the regulatory agencies is insufficient to allow the database companies to geocode facility locations. These facilities are listed under the unmappables section within the ERIS report. A review of the unmappable facilities indicated that the facilities could not be mapped or were not within the ASTM minimum search distance from the Property.

The Property was not listed in the Federal, State and Tribal regulatory review. The review identified one (1) site within the ASTM Standard E 1527-13 specified search distances. The site is a RCRA Info is the 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. A hazardous waste generator is any person or site whose processes and actions create hazardous waste (see 40 CFR 260.10). Very Small Quantity Generators (VSQG) generate 100 kilograms or less per month of hazardous waste, or one kilogram or less per month of acutely hazardous waste. Additionally, VSQG may not accumulate more than 1,000 kilograms of hazardous waste at any time. The site is located at a safe distance (greater than 700-feet) and at a lower elevation and does not have an impact on the Property.

4.2 Additional Environmental Record Sources

4.2.1 County Recorder/ Assessor

Records from the Boulder County Assessor were reviewed for evidence indicating the developmental history of the Property, owner and for the presence of documentation relative to USTs. No USTs or ASTs are currently located at the Property. Copies of the assessor documents are included in Appendix C.

4.2.2 Fire/Police Officials

Records were requested from the Boulder County Sheriff's Department pertaining to hazardous materials responses at the Property. Their records indicated that no hazardous material responses have been documented at the Property or in the immediate vicinity of the Property.

4.2.3 Planning Department

Records from the Boulder County Planning Department were reviewed for evidence indicating the developmental history and zoning of the Property. The Property is zoned for agricultural (AG) purposes.

4.3 Physical Setting Sources

4.3.1 Topography

The United States Geological Survey (USGS) 7.5- and 15-minute series topographic maps (1902, 1950, 1967, 1979, 2010 and 2016) were reviewed for this ESA (Figure 2). According to the contour lines on the topographic maps, the elevation at the Property is approximately 5,020 feet above mean sea level (MSL).

4.3.2 Geology

Regional soil and geologic mapping indicate that the Property is situated upon sandy loams. The loam is underlain by the Fox Hill Sandstone). Maps are included in the Physical Settings Report (PSR) included in Appendix B.

4.3.3 Hydrology

Regional groundwater mapping (Hillier and Schneider, 1979) indicates that the depth to groundwater across the Property likely ranges from five (5) feet to 20 feet with the seasonal water table generally less than 10 feet. US Fish & Wildlife wetlands maps illustrate that the western portion of the Little Gaynor Lake portion of the property and most of the portion of the Property located to the east of 95th Street is a freshwater emergent wetland. Maps are included in the PSR included in Appendix B.

4.3.4 Flood Zone Information

A review of the Flood Insurance Rate Maps, published by the Federal Emergency Management Agency (FEMA), was performed. According to the maps (Panels 08013C0288J (effective:2012-12-18), 08013C0269J (effective:2012-12-18), 08013C0430J (effective:2012-12-18), 08013C0407J (effective:2012-12-18), 08123C2075E (effective:2016-01-20), 08123C1875E (effective:2016-01-20) and 0850730025F (effective:2004-08-18), the Property is not located within a flood zone (Zone X). Maps are included in the PSR included in Appendix B.

4.3.5 Oil and Gas Exploration

According to the Colorado Oil and Gas Conservation Commission, no oil or gas facilities are present on the Property or adjoining properties. Records are included in the PSR included in Appendix B.

4.4 Historical Use Information on the Property

4.4.1 Aerial Photographs

Available aerial photographs dated 1937 (earliest), 1941, 1948, 1953, 1963, 1967, 1971, 1978, 1983, 1988, 1994, 1999, 2004, 2005, 2011, 2013, 2015, 2017 and 2019 were reviewed for this ESA. The Property is vacant on the photographs. Rural residential and outbuildings are visible on adjoining properties on the photographs. No RECs at the Property were identified on the aerial photographs. Copies of the photographs are included in Appendix B.

4.4.2 Fire Insurance Maps

Sanborn Fire Insurance Maps were not available for the Property.

4.4.3 City Directories

City directories for the Property were not reviewed since the Property has historically been vacant land.

4.4.4 Historical Topographic Maps

The United States Geological Survey (USGS) 7.5- and 15-minute series topographic maps (1902, 1950, 1967, 1979, 2010 and 2016) were reviewed for this ESA. The Property is vacant on all of the maps. No RECs at the Property or adjoining properties were identified on the maps.

4.4.5 Additional Historical Record Sources

APEX also attempted to contact the Carnegie Branch Library for Local History. The library did not have records pertaining to the Property.

4.4.6 Prior Assessment Reports

No prior ESA report for the Property were available for review.

5.0 SITE RECONNAISSANCE

5.1 Methodology and Limiting Conditions

On March 8, 2022, Michael Hattel, a representative of APEX, conducted a site reconnaissance to assess the possible presence of petroleum products and hazardous materials at the Property. The reconnaissance consisted of walking the exterior of the Property. Additionally, soil samples were collected from the southern portion (dry) of Little Gaynor Lake.

5.2 General Site Setting

The Property is located in a rural residential and agricultural area south of Longmont, Colorado. The Property is accessed by Oxford Road and 95th Street.

5.3 Exterior Observations

The Property consists of approximately 39 acres land (Figure 1). Little Gaynor Lake is located at the northeast portion of the Property (Photos 1 through 6). A shelter/enclosure is located at the entrance to the lake (Figure 1). Vacant land is located at the western Portion of the Property (Figures 7 through 11). A Left Hand Water lift station (enclosure and equipment) is located along 95th Street (Photo 9). Evidence of spills and/or leaks or the misuses of petroleum and/or hazardous materials were not observed at the Property during the reconnaissance. The figure and photographs are included in Appendix A.

5.3.1 Solid Waste Disposal

Solid waste is not generated at the Property.

5.3.2 Surface Water Drainage

Surface water at the Property appears to drain towards Little Gaynor Lake and to the east on the portion of the Property located along 95th Street.

5.3.3 Wells and Cisterns

Groundwater wells or cisterns were not observed at the Property. Also, information pertaining to well permits in the vicinity of the Property are included in the PSR Report in Appendix B. No wells are listed at the Property. A well is listed on a property just west of Little Gaynor Lake. Records are included in the PSR included in Appendix B.

5.3.4 Wastewater

No indications of industrial wastewater disposal or treatment facilities were observed during the Property reconnaissance. Also, a search of the database for septic systems in Boulder County indicated that septic systems are not listed at the Property.

5.3.5 Additional Site Observations

No additional relevant general Property characteristics were observed at the Property or adjoining properties during the reconnaissance.

5.4 Adjacent Property Observations

During the vicinity reconnaissance, APEX observed the following land use on the adjoining properties. During the vicinity reconnaissance, APEX observed the following land use on the adjoining properties.

North	Oxford Road/Agricultural Land
South	Agricultural Land
East	Lake and Rural Residential Land
West	North 95th Street/Agricultural Land

5.5 Potential Environmental Conditions

5.5.1 Hazardous Materials and Petroleum Products Used or Stored at the Site

Hazardous materials are not currently utilized or stored at the Property.

5.5.1.1 Unlabeled Containers and Drums

No unlabeled drums or containers were observed at the Property.

5.5.1.2 Disposal Locations of Regulated/ Hazardous Waste

No obvious indications of current or past hazardous waste generation or disposal were observed on the Property or were indicated during interviews.

5.5.2 Evidence of Releases

No obvious indications of hazardous material or petroleum product releases, such as heavily stained areas or stressed vegetation, were observed during the Property reconnaissance.

5.5.3 Polychlorinated Biphenyls (PCBs)

Pole-mounted electrical transformers were observed at the Property along 95th Street (Photo 12). The transformers appeared to be in good shape and were not leaking.

5.5.4 Landfills

No evidence of on-site landfill activities was observed on the Property or adjoining properties.

5.5.5 Pits, Ponds, or Lagoons

No pits or lagoons were observed at the Property.

5.5.6 On-Site AST's and UST's

No regulated petroleum ASTs or USTs were observed at the Property or immediately adjoining properties during the reconnaissance.

5.5.7 Radiological Hazards

No radiological hazards were observed on Property or adjoining properties.

5.5.8 Drinking Water & Sewage Disposal System

A domestic drinking water supply or septic system was not observed at the Property.

5.5.9 Vapor Intrusion

Based on the review of historical data and the site reconnaissance, a vapor intrusion condition does not exist at the Property.

5.5.10 Soil Sampling and Analysis

Little Gaynor is a small lake south of Longmont and one of only two natural lakes in eastern Boulder County. Historically runoff from the neighboring agricultural property to the south ceased in 2018. In an effort to determine if herbicide and/or pesticide contamination was present as a result of the runoff from the neighboring agricultural property, sampling of lake shore sediments (1-4" deep) at the southern portion of the lake were collected on March 8, 2022. The location of the samples is illustrated on Figure 2. The samples were handled with clean, new, nitrile gloves and placed in laboratory supplied vials and bottles. The samples (jars) were stored on ice in a cooler and delivered to SGS Laboratory in Wheat Ridge, Colorado under chain-of-custody documentation. The samples were analyzed for herbicides and

pesticides (semi-volatiles) by EPA Methods SW846 8151A and SW846 8081B, respectively. Herbicides and pesticides were not detected in either above the method detection limit. Consequently, it does not appear that agricultural runoff from the adjoining property has impacted lake shore sediments. The laboratory report submitted by SGS Laboratory is included in Appendix C.

6.0 INTERVIEWS

6.1 Interview with Owner/Site Manager

The OWNER representative, Mr. Jeff Moline was questioned. According to Mr. Moline, he was not aware of any current environmental conditions that might affect the Property. To his knowledge, there were no environmental liens or any petroleum product releases recorded against the Property. The questionnaire provided by Boulder County Parks and Open Space is included in Appendix D.

6.2 Interview with Local Government Officials

The Boulder County Health Department was contacted. According to their records, no hazardous material and/or petroleum incidences are documented at the Property.

7.0 FINDINGS AND CONCLUSIONS

7.1 Findings

7.1.1 De Minimis Environmental Conditions

No, de minimis environmental conditions were identified in connection with the Property during the course of this assessment.

7.1.2 On-Site Environmental Conditions

No on-site environmental conditions were identified at the Property during the course of this assessment.

7.1.3 Historical Environmental Conditions

A historical REC (HREC) was not identified in connection with the Property during the course of this assessment.

7.1.4 Controlled Environmental Conditions

No controlled environmental conditions were identified in connection with Property.

7.1.5 Vapor Encroachment Conditions

A vapor intrusion condition was not identified at the Property.

7.2 Opinion

This assessment has revealed no RECs in connection with the Property.

7.3 Conclusions

APEX has performed a Phase I Environmental Site Assessment in general accordance with the scope and limitations of ASTM Practice E 1527-13 of Property in unincorporated Boulder County, Colorado. Any

exceptions to or deletions from this practice are described in Section 1.4 of this report. This assessment has revealed no RECs in connection with the Property.

7.4 Recommendations

This assessment has revealed no REC' in connection with the Property. Consequently, additional work is not warranted.

7.5 Deviations

This Phase I ESA substantially complies with the scope of services and ASTM 1527-13, as amended, except for exceptions and/or limiting conditions as discussed in Section 1.4.

8.0 REFERENCE

Agencies Contacted:

Boulder County Assessor's Office.

Boulder County Health Department.

Boulder County Planning Department.

Boulder County Sheriff's Department.

Boulder Public Library, Carnegie Branch.

Reports, Plans, and Other Documents Reviewed:

ERIS, Radius Report, Little Gaynor Lake.

ERIS Physical Settings Report, Little Gaynor Lake.

ERIS Historical Aerials, Little Gaynor Lake.

ERIS Database Report, Little Gaynor Lake.

USGS Map I-855-I – "*Depth to Water Table in the Ft. Collins-Boulder-Greeley Area, Front Range Urban Corridor, Colorado.*"

9.0 SIGNATURES OF ENVIRONMENTAL PROFESSIONAL

We declare that, to the best of our professional knowledge and belief, we meet the definition of *Environmental professional* as defined in §312.10 of 40 CFR 312" and We have the specific qualifications based on education, training, and experience to assess a *property* of the nature, history, and setting of the subject *property*. We have developed and performed the all-appropriate inquiries in conformance with the standards and practices set forth in 40 CFR Part 312.

Michael Hattel, PG, REP, REPA
Environmental Professional

10.0 QUALIFICATIONS OF ENVIRONMENTAL PROFESSIONALS

10.1 Definition of an Environmental Professional

An Environmental Professional means: *(1)* a person who possesses sufficient specific education, training, and experience necessary to exercise professional judgment to develop opinions and conclusions regarding conditions indicative of releases or threatened releases (see §312.1(c)) on, at, in, or to a property, sufficient to meet the objectives and performance factors in §312.20(e) and (f). *(2)* Such a person must: (i) hold a current Professional Engineer's or Professional Geologist's license or registration from a state, tribe, or U.S. territory (or the Commonwealth of Puerto Rico) and have the equivalent of three (3) years of full-time relevant experience; or (ii) be licensed or certified by the federal government, a state, tribe, or U.S. territory (or the Commonwealth of Puerto Rico) to perform environmental inquiries as defined in §312.21 and have the equivalent of three (3) years of full-time relevant experience; or (iii) have a Baccalaureate or higher degree from an accredited institution of higher education in a discipline of engineering or science and the equivalent of five (5) years of full-time relevant experience; or (iv) have the equivalent of ten (10) years of full-time relevant experience. *(3)* An environmental professional should remain current in his or her field through participation in continuing education or other activities. *(4)* The definition of environmental professional provided above does not preempt state professional licensing or registration requirements such as those for a professional geologist, engineer, or site remediation professional. Before commencing work, a person should determine the applicability of state professional licensing or registration laws to the activities to be undertaken as part of the inquiry identified in §312.21(b). *(5)* A person who does not qualify as an environmental professional under the foregoing definition may assist in the conduct of all appropriate inquiries in accordance with this part if such person is under the supervision or responsible charge of a person meeting the definition of an environmental professional provided above when conducting such activities.

10.2 Relevant Experience

Relevant experience, as used in the definition of environmental professional in this section, means: participation in the performance of all appropriate inquiries investigations, environmental site assessments, or other site investigations that may include environmental analyses, investigations, and remediation which involve the understanding of surface and subsurface environmental conditions and the processes used to evaluate these conditions and for which professional judgment was used to develop opinions regarding conditions indicative of releases or threatened releases (see §312.1(c)) to the subject property.

Resumes for the Environmental Professionals involved in this project are included in Appendix E.

APPENDIX A

FIGURES AND SITE PHOTOGRAPHS

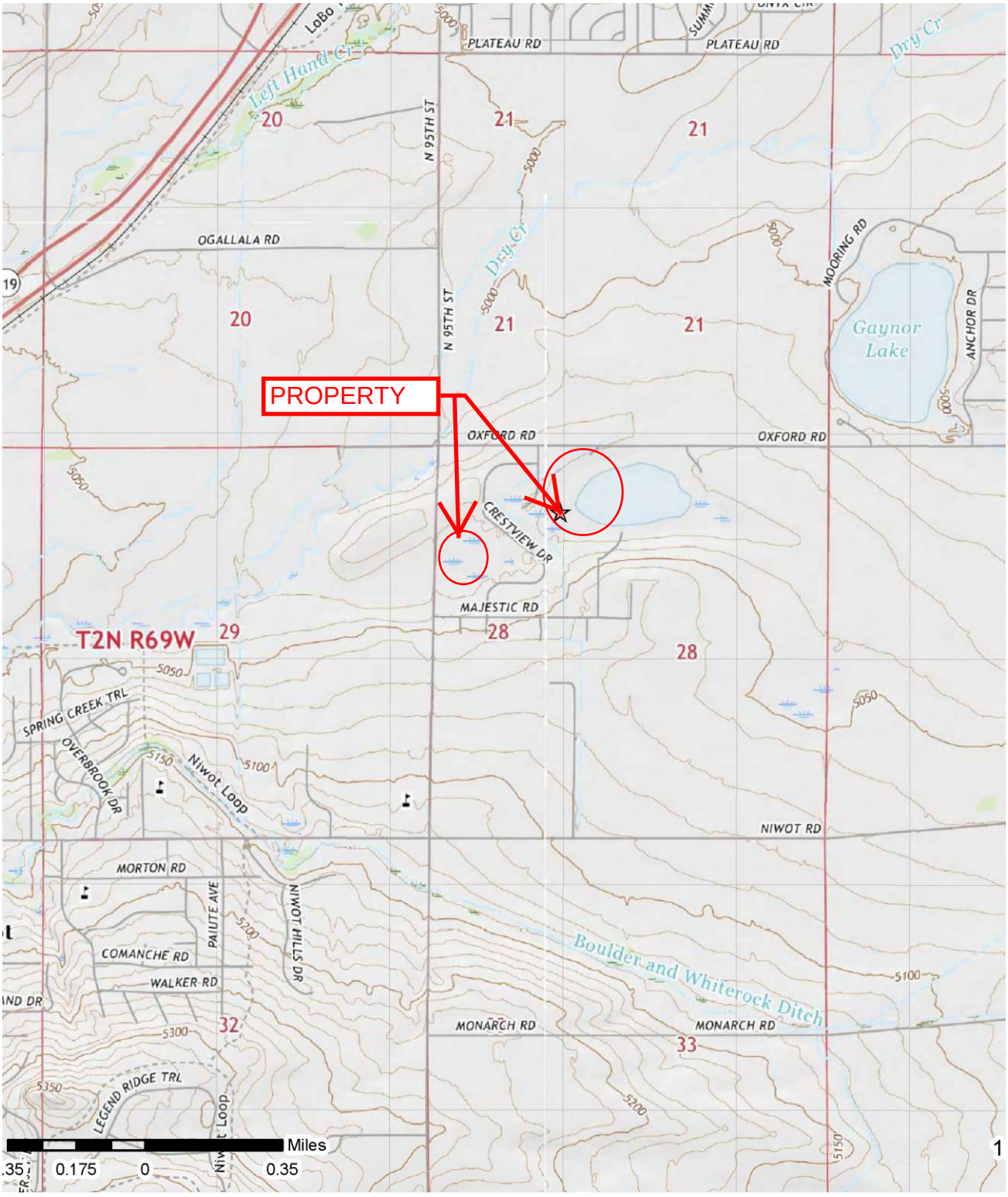

FIGURE 1: VICINITY MAP

LITTLE GAYNOR LAKE PROPERTY
UNINCORPORATED BOULDER COUNTY, COLORADO

N

USGS 7.5 Minute
2016
Created: 2022
Revised: None

APEX CONSULTING SERVICES, INC.

FIGURE 2: SITE MAP

LITTLE GAYNOR LAKE PROPERTY
UNINCORPORATED BOULDER COUNTY, COLORADO

N

Created: 2022
Revised: None

APEX CONSULTING SERVICES, INC.

1. Entrance to Little Gaynor Lake

2. Northwest Portion of Little Gaynor Lake

3. Southeast Portion of Little Gaynor Lake

4. Southern Boundary of Little Gaynor Lake

5. Southwest Portion of Little Gaynor Lake

6. Western Portion of Little Gaynor Lake

7. Northwest Portion of Property (Along 95th St.)

8. Southwest Portion of Property (Along 95th St.)

9. Western Portion of Property (Along 95th St.)

10. Central Portion of Property (Along 95th St.)

11. Eastern Portion of Property (Along 95th St.)

12. Pole-Mounted Transformers (Along 95th St.)

APPENDIX B

HISTORICAL RESEARCH DOCUMENTATION

DATABASE REPORT

Project Property:	*Little Gaynor Lake* *Little Gaynor Lake* *Little Gaynor Lake CO 80504*
Project No:	
Report Type:	*Database Report*
Order No:	*22030400758*
Requested by:	*Apex Consulting Services, Inc.*
Date Completed:	*March 7, 2022*

Environmental Risk Information Services
A division of Glacier Media Inc.
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Executive Summary

Property Information:

Project Property:		*Little Gaynor Lake* *Little Gaynor Lake Little Gaynor Lake CO 80504*
Project No:		
Coordinates:		
	Latitude:	*40.1137636*
	Longitude:	*-105.1251473*
	UTM Northing:	*4,440,391.49*
	UTM Easting:	*489,335.21*
	UTM Zone:	*UTM Zone 13T*
Elevation:		*5,024 FT*

Order Information:

Order No:	*22030400758*
Date Requested:	*March 4, 2022*
Requested by:	*Apex Consulting Services, Inc.*
Report Type:	*Database Report*

Historicals/Products:

Aerial Photographs	*Historical Aerials (with Project Boundaries)*
ERIS Xplorer	*ERIS Xplorer*
Excel Add-On	*Excel Add-On*
Fire Insurance Maps	*US Fire Insurance Maps*
Physical Setting Report (PSR)	*Physical Setting Report (PSR)*

Executive Summary: Report Summary

Database	Searched	Search Radius	Project Property	Within 0.12mi	0.125mi to 0.25mi	0.25mi to 0.50mi	0.50mi to 1.00mi	Total
Standard Environmental Records								
Federal								
DOE FUSRAP	Y	1	0	0	0	0	0	0
NPL	Y	1	0	0	0	0	0	0
PROPOSED NPL	Y	1	0	0	0	0	0	0
DELETED NPL	Y	0.5	0	0	0	0	-	0
SEMS	Y	0.5	0	0	0	0	-	0
ODI	Y	0.5	0	0	0	0	-	0
SEMS ARCHIVE	Y	0.5	0	0	0	0	-	0
CERCLIS	Y	0.5	0	0	0	0	-	0
IODI	Y	0.5	0	0	0	0	-	0
CERCLIS NFRAP	Y	0.5	0	0	0	0	-	0
CERCLIS LIENS	Y	PO	0	-	-	-	-	0
RCRA CORRACTS	Y	1	0	0	0	0	0	0
RCRA TSD	Y	0.5	0	0	0	0	-	0
RCRA LQG	Y	0.25	0	0	0	-	-	0
RCRA SQG	Y	0.25	0	0	0	-	-	0
RCRA VSQG	Y	0.25	0	0	***1***	-	-	***1***
RCRA NON GEN	Y	0.25	0	0	0	-	-	0
RCRA CONTROLS	Y	0.5	0	0	0	0	-	0
FED ENG	Y	0.5	0	0	0	0	-	0
FED INST	Y	0.5	0	0	0	0	-	0
LUCIS	Y	0.5	0	0	0	0	-	0
ERNS 1982 TO 1986	Y	PO	0	-	-	-	-	0
ERNS 1987 TO 1989	Y	PO	0	-	-	-	-	0
ERNS	Y	PO	0	-	-	-	-	0
FED BROWNFIELDS	Y	0.5	0	0	0	0	-	0
FEMA UST	Y	0.25	0	0	0	-	-	0
FRP	Y	0.25	0	0	0	-	-	0

Database	Searched	Search Radius	Project Property	Within 0.12mi	0.125mi to 0.25mi	0.25mi to 0.50mi	0.50mi to 1.00mi	Total
HIST GAS STATIONS	Y	0.25	0	0	0	-	-	0
REFN	Y	0.25	0	0	0	-	-	0
BULK TERMINAL	Y	0.25	0	0	0	-	-	0
SEMS LIEN	Y	PO	0	-	-	-	-	0
SUPERFUND ROD	Y	1	0	0	0	0	0	0
State								
LANDFILL METHANE	Y	0.5	0	0	0	0	-	0
COVENANTS	Y	0.5	0	0	0	0	-	0
SUPERFUND NRD	Y	1	0	0	0	0	0	0
SHWS	Y	1	0	0	0	0	0	0
DELISTED SHWS	Y	1	0	0	0	0	0	0
SWF/LF	Y	0.5	0	0	0	0	-	0
HIST LF	Y	0.5	0	0	0	0	-	0
HIST LANDFILLS	Y	0.5	0	0	0	0	-	0
RECYCLING	Y	0.5	0	0	0	0	-	0
LST	Y	0.5	0	0	0	0	-	0
LUST TRUST	Y	0.5	0	0	0	0	-	0
DELISTED LST	Y	0.5	0	0	0	0	-	0
UST	Y	0.25	0	0	0	-	-	0
AST	Y	0.25	0	0	0	-	-	0
TANKS	Y	0.25	0	0	0	-	-	0
DTNK	Y	0.25	0	0	0	-	-	0
AUL	Y	0.5	0	0	0	0	-	0
VCP	Y	0.5	0	0	0	0	-	0
BROWNFIELDS	Y	0.5	0	0	0	0	-	0
Tribal								
INDIAN LUST	Y	0.5	0	0	0	0	-	0
INDIAN UST	Y	0.25	0	0	0	-	-	0
DELISTED ILST	Y	0.5	0	0	0	0	-	0
DELISTED IUST	Y	0.25	0	0	0	-	-	0

County ***No County databases were selected to be included in the search.***

Additional Environmental Records

Federal

Database	Searched	Search Radius	Project Property	Within 0.12mi	0.125mi to 0.25mi	0.25mi to 0.50mi	0.50mi to 1.00mi	Total
FINDS/FRS	Y	PO	0	-	-	-	-	0
TRIS	Y	PO	0	-	-	-	-	0
PFAS TRI	Y	0.5	0	0	0	0	-	0
PFAS NPL	Y	0.5	0	0	0	0	-	0
PFAS WATER	Y	0.5	0	0	0	0	-	0
PFAS SSEHRI	Y	0.5	0	0	0	0	-	0
HMIRS	Y	0.125	0	0	-	-	-	0
NCDL	Y	0.125	0	0	-	-	-	0
TSCA	Y	0.125	0	0	-	-	-	0
HIST TSCA	Y	0.125	0	0	-	-	-	0
FTTS ADMIN	Y	PO	0	-	-	-	-	0
FTTS INSP	Y	PO	0	-	-	-	-	0
PRP	Y	PO	0	-	-	-	-	0
SCRD DRYCLEANER	Y	0.5	0	0	0	0	-	0
ICIS	Y	PO	0	-	-	-	-	0
FED DRYCLEANERS	Y	0.25	0	0	0	-	-	0
DELISTED FED DRY	Y	0.25	0	0	0	-	-	0
FUDS	Y	1	0	0	0	0	0	0
FORMER NIKE	Y	1	0	0	0	0	0	0
PIPELINE INCIDENT	Y	PO	0	-	-	-	-	0
MLTS	Y	PO	0	-	-	-	-	0
HIST MLTS	Y	PO	0	-	-	-	-	0
MINES	Y	0.25	0	0	0	-	-	0
SMCRA	Y	1	0	0	0	0	0	0
MRDS	Y	1	0	0	0	0	0	0
URANIUM	Y	1	0	0	0	0	0	0
ALT FUELS	Y	0.25	0	0	0	-	-	0
SSTS	Y	0.25	0	0	0	-	-	0
PCB	Y	0.5	0	0	0	0	-	0
State								
SPILLS	Y	0.125	0	0	-	-	-	0
OG SPILLS	Y	0.125	0	0	-	-	-	0
DRYCLEANERS	Y	0.25	0	0	0	-	-	0
DELISTED DRYCLEANERS	Y	0.25	0	0	0	-	-	0
AIR PERMITS	Y	0.125	0	0	-	-	-	0

Database	Searched	Search Radius	Project Property	Within 0.12mi	0.125mi to 0.25mi	0.25mi to 0.50mi	0.50mi to 1.00mi	Total
PFAS	Y	0.5	0	0	0	0	-	0
ASBESTOS	Y	0.125	0	0	-	-	-	0
HAZ GEN	Y	0.125	0	0	-	-	-	0
NPDES	Y	PO	0	-	-	-	-	0
HAZ TSD	Y	0.5	0	0	0	0	-	0
HAZ CORRACT	Y	1	0	0	0	0	0	0
UMTRA	Y	0.5	0	0	0	0	-	0

Tribal ***No Tribal additional environmental record sources available for this State.***

County ***No County additional environmental databases were selected to be included in the search.***

Total:	0	0	***1***	0	0	***1***

**** PO – Property Only***
**** 'Property and adjoining properties' database search radii are set at 0.25 miles.***

Executive Summary: Site Report Summary - Project Property

Map Key	DB	Company/Site Name	Address	Direction	Distance (mi/ft)	Elev Diff (ft)	Page Number

No records found in the selected databases for the project property.

Executive Summary: Site Report Summary - Surrounding Properties

Map Key	DB	Company/Site Name	Address	Direction	Distance (mi/ft)	Elev Diff (ft)	Page Number
1	RCRA VSQG	ALEX R CARTER	7710 N 95TH ST LONGMONT CO 80504 ***EPA Handler ID:*** COR000223057	WNW	0.24 / 1,277.65	23	16

Executive Summary: Summary by Data Source

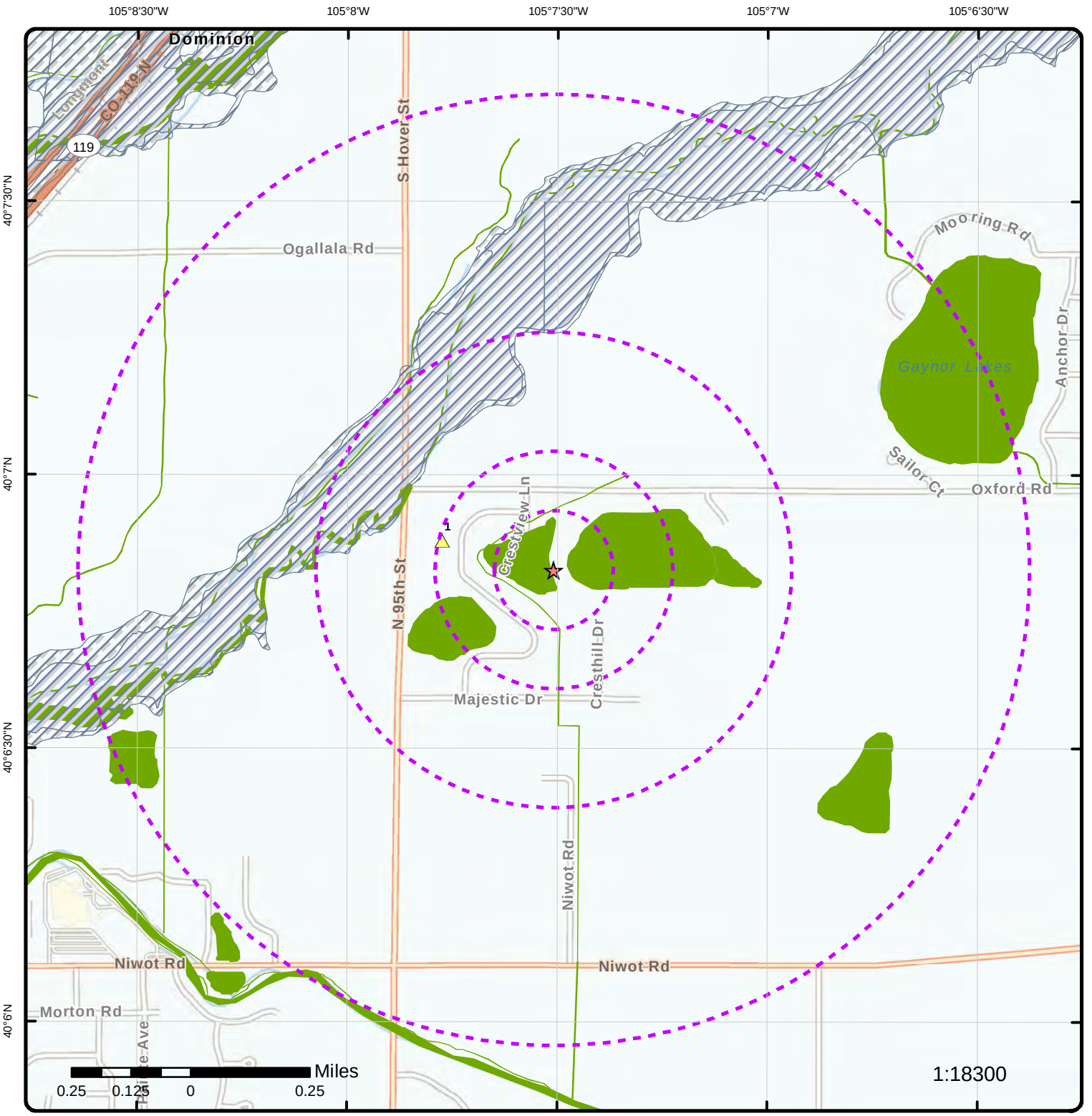
Standard

Federal

RCRA VSQG - RCRA Very Small Quantity Generators List

A search of the RCRA VSQG database, dated Nov 17, 2021 has found that there are 1 RCRA VSQG site(s) within approximately 0.25 miles of the project property.

Equal/Higher Elevation	Address	Direction	Distance (mi/ft)	Map Key
ALEX R CARTER	7710 N 95TH ST LONGMONT CO 80504 ***EPA Handler ID**: COR000223057*	WNW	0.24 / 1,277.65	1

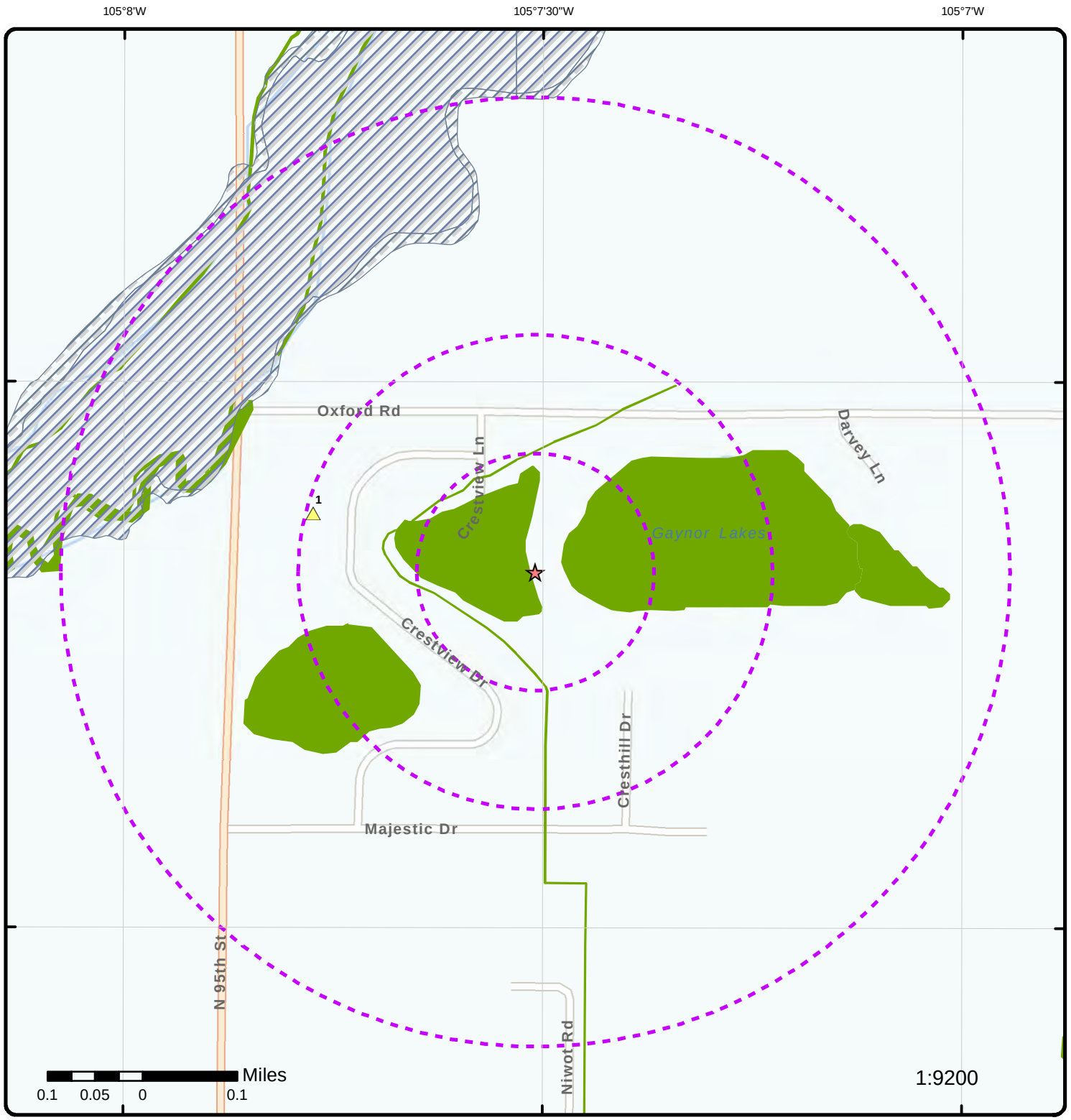


Map: 1.0 Mile Radius

Order Number: 22030400758

Address: Little Gaynor Lake, Little Gaynor Lake, CO

- Project Property
- Buffer Outline
- Eris Sites with Higher Elevation
- Eris Sites with Same Elevation
- Eris Sites with Lower Elevation
- Eris Sites with Unknown Elevation
- Eris Areas with Higher Elevation
- Eris Areas with Same Elevation
- Eris Areas with Lower Elevation
- Eris Areas with Unknown Elevation
- Freeways; Highways
- Traffic Circle; Ramp
- Major & Minor Arterial
- Traffic Circle; Ramp
- Local Road
- Rail
- State
- Country
- National Priority List Sites
- National Wetland
- Indian Reserve Land
- Historic Fill
- 100 Year Flood Zone
- 500 Year Flood Zone
- FWS Special Designation Areas
- Plume

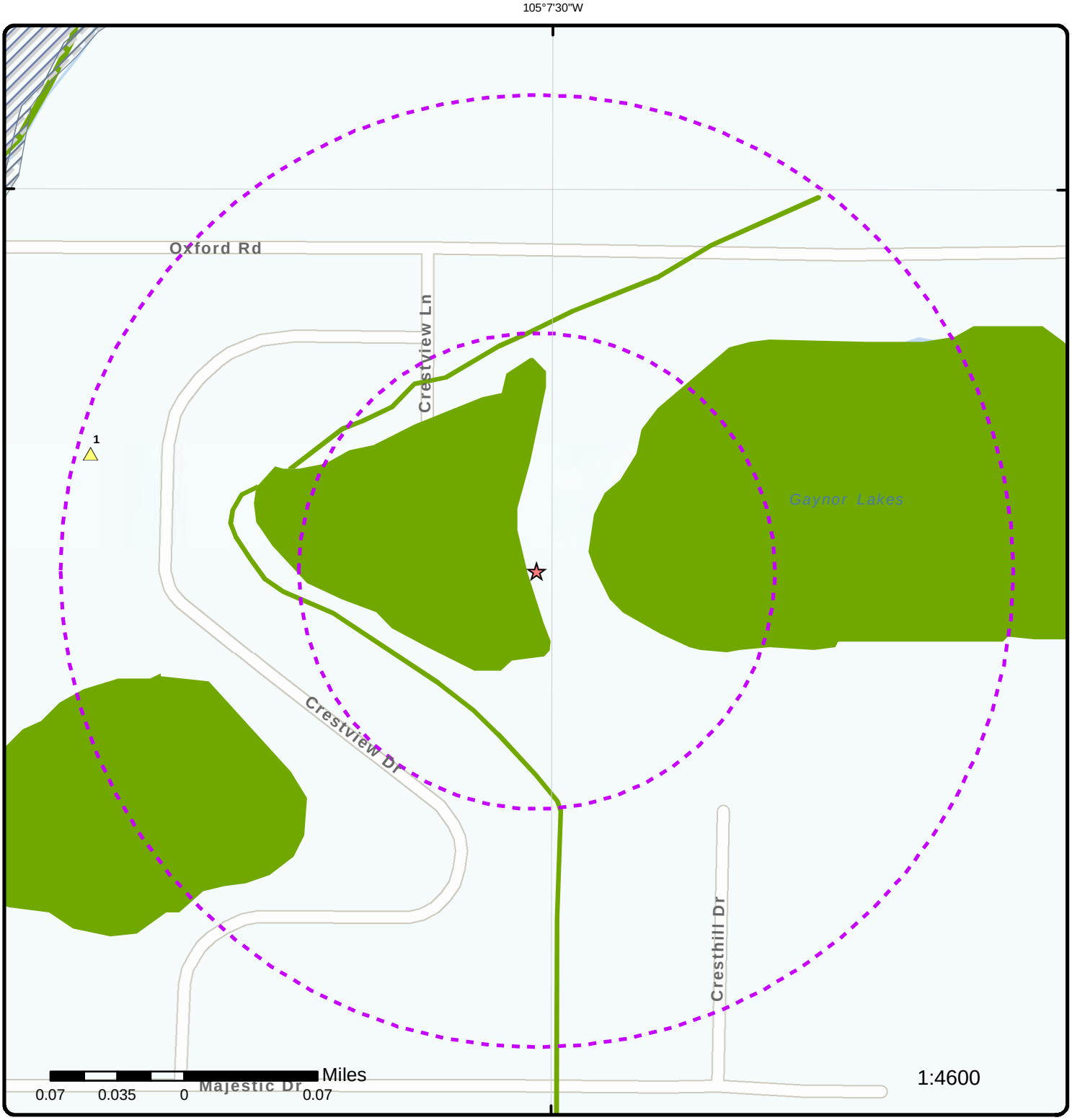


Map: 0.5 Mile Radius

Order Number: 22030400758

Address: Little Gaynor Lake, Little Gaynor Lake, CO

- Project Property
- Buffer Outline
- Eris Sites with Higher Elevation
- Eris Sites with Same Elevation
- Eris Sites with Lower Elevation
- Eris Sites with Unknown Elevation
- Eris Areas with Higher Elevation
- Eris Areas with Same Elevation
- Eris Areas with Lower Elevation
- Eris Areas with Unknown Elevation
- Freeways; Highways
- Traffic Circle; Ramp
- Major & Minor Arterial
- Traffic Circle; Ramp
- Local Road
- Rail
- State
- Country
- National Priority List Sites
- National Wetland
- Indian Reserve Land
- Historic Fill
- 100 Year Flood Zone
- 500 Year Flood Zone
- FWS Special Designation Areas
- Plume



Map: 0.25 Mile Radius

Order Number: 22030400758

Address: Little Gaynor Lake, Little Gaynor Lake, CO

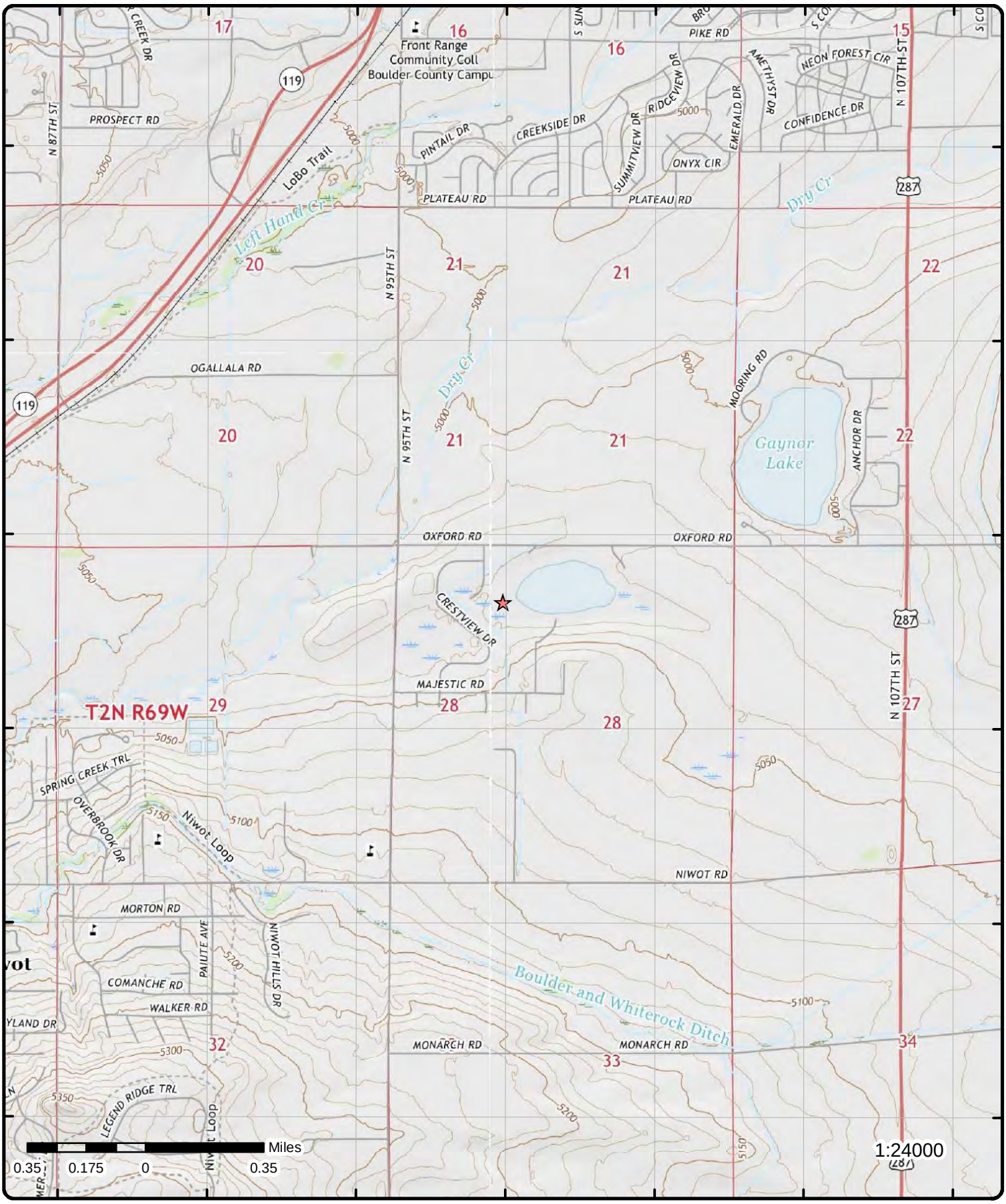
- Project Property
- Buffer Outline
- Eris Sites with Higher Elevation
- Eris Sites with Same Elevation
- Eris Sites with Lower Elevation
- Eris Sites with Unknown Elevation
- Eris Areas with Higher Elevation
- Eris Areas with Same Elevation
- Eris Areas with Lower Elevation
- Eris Areas with Unknown Elevation
- Freeways; Highways
- Traffic Circle; Ramp
- Major & Minor Arterial
- Traffic Circle; Ramp
- Local Road
- Rail
- State
- Country
- National Priority List Sites
- National Wetland
- Indian Reserve Land
- Historic Fill
- 100 Year Flood Zone
- 500 Year Flood Zone
- FWS Special Designation Areas
- Plume

Aerial **Year: 2021**

Order Number: 22030400758

Address: Little Gaynor Lake, Little Gaynor Lake, CO

Source: ESRI World Imagery



Topographic Map

Year: 2016

Order Number: 22030400758

Address: Little Gaynor Lake, CO

Quadrangle(s): Niwot, CO; Erie, CO; Hygiene, CO; Longmont, CO

Source: USGS Topographic Map

Detail Report

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
1	1 of 1	WNW	0.24 / 1,277.65	5,047.35 / 23	ALEX R CARTER 7710 N 95TH ST LONGMONT CO 80504	RCRA VSQG

EPA Handler ID: COR000223057
Gen Status Universe: VSG
Contact Name: ALEX R CARTER
Contact Address: 7710 , N 95TH ST , , LONGMONT , CO, 80504 , US
Contact Phone No and Ext: 303-652-3634
Contact Email:
Contact Country: US
County Name: BOULDER
EPA Region: 08
Land Type: Private
Receive Date: 20100406
Location Latitude: 40.11264
Location Longitude: -105.131203

Violation/Evaluation Summary

Note: NO RECORDS: As of Nov 2021, there are no Compliance Monitoring and Enforcement (violation) records associated with this facility (EPA ID).

Handler Summary

Importer Activity: No
Mixed Waste Generator: No
Transporter Activity: No
Transfer Facility: No
Onsite Burner Exemption: No
Furnace Exemption: No
Underground Injection Activity: No
Commercial TSD: No
Used Oil Transporter: No
Used Oil Transfer Facility: No
Used Oil Processor: No
Used Oil Refiner: No
Used Oil Burner: No
Used Oil Market Burner: No
Used Oil Spec Marketer: No

Hazardous Waste Handler Details

Sequence No: 1
Receive Date: 20100406
Handler Name: ALEX R CARTER
Federal Waste Generator Code: 3
Generator Code Description: Very Small Quantity Generator
Source Type: Notification

Waste Code Details

Hazardous Waste Code: D001
Waste Code Description: IGNITABLE WASTE

Hazardous Waste Code: D004
Waste Code Description: ARSENIC

Hazardous Waste Code: D011
Waste Code Description: SILVER

Owner/Operator Details

Owner/Operator Ind:	Current Owner	***Street No:***	7710
Type:	Private	***Street 1:***	N 95TH ST
Name:	ALEX R CARTER	***Street 2:***	
Date Became Current:	20100406	***City:***	LONGMONT
Date Ended Current:		***State:***	CO
Phone:	303-652-3634	***Country:***	US
Source Type:	Notification	***Zip Code:***	80504

Owner/Operator Ind:	Current Operator	***Street No:***	7710
Type:	Private	***Street 1:***	N 95TH ST
Name:	ALEX R CARTER	***Street 2:***	
Date Became Current:	20100406	***City:***	LONGMONT
Date Ended Current:		***State:***	CO
Phone:	303-652-3634	***Country:***	US
Source Type:	Notification	***Zip Code:***	80504

Unplottable Summary

Total: 0 Unplottable sites

DB	Company Name/Site Name	Address	City	Zip	ERIS ID

No unplottable records were found that may be relevant for the search criteria.

Unplottable Report

No unplottable records were found that may be relevant for the search criteria.

Appendix: Database Descriptions

Environmental Risk Information Services (ERIS) can search the following databases. The extent of historical information varies with each database and current information is determined by what is publicly available to ERIS at the time of update. ERIS updates databases as set out in ASTM Standard E1527-13 and E1527-21, Section 8.1.8 Sources of Standard Source Information:

"Government information from nongovernmental sources may be considered current if the source updates the information at least every 90 days, or, for information that is updated less frequently than quarterly by the government agency, within 90 days of the date the government agency makes the information available to the public."

Standard Environmental Record Sources

Federal

Formerly Utilized Sites Remedial Action Program: DOE FUSRAP

The U.S. Department of Energy (DOE) established the Formerly Utilized Sites Remedial Action Program (FUSRAP) in 1974 to remediate sites where radioactive contamination remained from the Manhattan Project and early U.S. Atomic Energy Commission (AEC) operations. The DOE Office of Legacy Management (LM) established long-term surveillance and maintenance (LTS&M) requirements for remediated FUSRAP sites. DOE evaluates the final site conditions of a remediated site on the basis of risk for different future uses. DOE then confirms that LTS&M requirements will maintain protectiveness.

Government Publication Date: Mar 4, 2017

National Priority List: NPL

National Priorities List (Superfund)-NPL: EPA's (United States Environmental Protection Agency) list of the most serious uncontrolled or abandoned hazardous waste sites identified for possible long-term remedial action under the Superfund program. The NPL, which EPA is required to update at least once a year, is based primarily on the score a site receives from EPA's Hazard Ranking System. A site must be on the NPL to receive money from the Superfund Trust Fund for remedial action.

Government Publication Date: Dec 30, 2021

National Priority List - Proposed: PROPOSED NPL

Includes sites proposed (by the EPA, the state, or concerned citizens) for addition to the NPL due to contamination by hazardous waste and identified by the Environmental Protection Agency (EPA) as a candidate for cleanup because it poses a risk to human health and/or the environment.

Government Publication Date: Dec 30, 2021

Deleted NPL: DELETED NPL

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.

Government Publication Date: Dec 30, 2021

SEMS List 8R Active Site Inventory: SEMS

The Superfund Program has deployed the Superfund Enterprise Management System (SEMS), which integrates multiple legacy systems into a comprehensive tracking and reporting tool. This inventory contains active sites evaluated by the Superfund program that are either proposed to be or are on the National Priorities List (NPL) as well as sites that are in the screening and assessment phase for possible inclusion on the NPL. The Active Site Inventory Report displays site and location information at active SEMS sites. An active site is one at which site assessment, removal, remedial, enforcement, cost recovery, or oversight activities are being planned or conducted.

Government Publication Date: Dec 30, 2021

Inventory of Open Dumps, June 1985: ODI

The Resource Conservation and Recovery Act (RCRA) provides for publication of an inventory of open dumps. The Act defines "open dumps" as facilities which do not comply with EPA's "Criteria for Classification of Solid Waste Disposal Facilities and Practices" (40 CFR 257).

Government Publication Date: Jun 1985

SEMS List 8R Archive Sites: SEMS ARCHIVE

The Superfund Enterprise Management System (SEMS) Archived Site Inventory displays site and location information at sites archived from SEMS. An archived site is one at which EPA has determined that assessment has been completed and no further remedial action is planned under the Superfund program at this time.

Government Publication Date: Dec 30, 2021

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

Superfund is a program administered by the United States Environmental Protection Agency (EPA) to locate, investigate, and clean up the worst hazardous waste sites throughout the United States. CERCLIS is a database of potential and confirmed hazardous waste sites at which the EPA Superfund program has some involvement. It contains sites that are either proposed to be or are on the National Priorities List (NPL) as well as sites that are in the screening and assessment phase for possible inclusion on the NPL. The EPA administers the Superfund program in cooperation with individual states and tribal governments; this database is made available by the EPA.

Government Publication Date: Oct 25, 2013

EPA Report on the Status of Open Dumps on Indian Lands: IODI

Public Law 103-399, The Indian Lands Open Dump Cleanup Act of 1994, enacted October 22, 1994, identified congressional concerns that solid waste open dump sites located on American Indian or Alaska Native (AI/AN) lands threaten the health and safety of residents of those lands and contiguous areas. The purpose of the Act is to identify the location of open dumps on Indian lands, assess the relative health and environment hazards posed by those sites, and provide financial and technical assistance to Indian tribal governments to close such dumps in compliance with Federal standards and regulations or standards promulgated by Indian Tribal governments or Alaska Native entities.

Government Publication Date: Dec 31, 1998

CERCLIS - No Further Remedial Action Planned: CERCLIS NFRAP

An archived site is one at which EPA has determined that assessment has been completed and no further remedial action is planned under the Superfund program at this time. The Archive designation means 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). 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.

Government Publication Date: Oct 25, 2013

CERCLIS Liens: CERCLIS LIENS

A Federal Superfund lien exists at any property where EPA has incurred Superfund costs to address contamination ("Superfund site") and has provided notice of liability to the property owner. A Federal CERCLA ("Superfund") lien can exist by operation of law at any site or property at which EPA has spent Superfund monies. This database is made available by the United States Environmental Protection Agency (EPA).

Government Publication Date: Jan 30, 2014

RCRA CORRACTS-Corrective Action: RCRA CORRACTS

RCRA Info 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. At these sites, the Corrective Action Program ensures that cleanups occur. EPA and state regulators work with facilities and communities to design remedies based on the contamination, geology, and anticipated use unique to each site.

Government Publication Date: Nov 17, 2021

RCRA non-CORRACTS TSD Facilities: RCRA TSD

RCRA Info 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. This database includes Non-Corrective Action sites listed as treatment, storage and/or disposal facilities of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA).

Government Publication Date: Nov 17, 2021

RCRA Generator List: RCRA LQG

RCRA Info 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. RCRA Info replaces the data recording and reporting abilities of the Resource Conservation and Recovery Information System (RCRIS) and the Biennial Reporting System (BRS). A hazardous waste generator is any person or site whose processes and actions create hazardous waste (see 40 CFR 260.10). Large Quantity Generators (LQGs) generate 1,000 kilograms per month or more of hazardous waste or more than one kilogram per month of acutely hazardous waste.

Government Publication Date: Nov 17, 2021

RCRA Small Quantity Generators List: RCRA SQG

RCRA Info is the 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. RCRA Info replaces the data recording and reporting abilities of the Resource Conservation and Recovery Information System (RCRIS) and the Biennial Reporting System (BRS). A hazardous waste generator is any person or site whose processes and actions create hazardous waste (see 40 CFR 260.10). Small Quantity Generators (SQGs) generate more than 100 kilograms, but less than 1,000 kilograms, of hazardous waste per month.

Government Publication Date: Nov 17, 2021

RCRA Very Small Quantity Generators List: RCRA VSQG

RCRA Info is the 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. A hazardous waste generator is any person or site whose processes and actions create hazardous waste (see 40 CFR 260.10). Very Small Quantity Generators (VSQG) generate 100 kilograms or less per month of hazardous waste, or one kilogram or less per month of acutely hazardous waste. Additionally, VSQG may not accumulate more than 1,000 kilograms of hazardous waste at any time.

Government Publication Date: Nov 17, 2021

RCRA Non-Generators: RCRA NON GEN

RCRA Info 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. RCRA Info replaces the data recording and reporting abilities of the Resource Conservation and Recovery Information System (RCRIS) and the Biennial Reporting System (BRS). A hazardous waste generator is any person or site whose processes and actions create hazardous waste (see 40 CFR 260.10). Non-Generators do not presently generate hazardous waste.

Government Publication Date: Nov 17, 2021

RCRA Sites with Controls: RCRA CONTROLS

List of Resource Conservation and Recovery Act (RCRA) facilities with institutional controls in place. RCRA gives the U.S. Environmental Protection Agency (EPA) the authority to control hazardous waste from the "cradle-to-grave." This includes the generation, transportation, treatment, storage, and disposal of hazardous waste. RCRA also set forth a framework for the management of non-hazardous solid wastes. The 1986 amendments to RCRA enabled EPA to address environmental problems that could result from underground tanks storing petroleum and other hazardous substances.

Government Publication Date: Nov 17, 2021

Federal Engineering Controls-ECs: FED ENG

Engineering controls (ECs) encompass a variety of engineered and constructed physical barriers (e.g., soil capping, sub-surface venting systems, mitigation barriers, fences) to contain and/or prevent exposure to contamination on a property. This database is made available by the United States Environmental Protection Agency (EPA).

Government Publication Date: Dec 30, 2021

Federal Institutional Controls- ICs: FED INST

Institutional controls are non-engineered instruments, such as administrative and legal controls, that help minimize the potential for human exposure to contamination and/or protect the integrity of the remedy. Although it is EPA's (United States Environmental Protection Agency) expectation that treatment or engineering controls will be used to address principal threat wastes and that groundwater will be returned to its beneficial use whenever practicable, ICs play an important role in site remedies because they reduce exposure to contamination by limiting land or resource use and guide human behavior at a site.

Government Publication Date: Dec 30, 2021

Land Use Control Information System: LUCIS

The LUCIS database is maintained by the U.S. Department of the Navy and contains information for former Base Realignment and Closure (BRAC) properties across the United States.

Government Publication Date: Sep 1, 2006

Emergency Response Notification System: ERNS 1982 TO 1986

Database of oil and hazardous substances spill reports controlled by the National Response Center. The primary function of the National Response Center is to serve as the sole national point of contact for reporting oil, chemical, radiological, biological, and etiological discharges into the environment anywhere in the United States and its territories.

Government Publication Date: 1982-1986

Emergency Response Notification System: ERNS 1987 TO 1989

Database of oil and hazardous substances spill reports controlled by the National Response Center. The primary function of the National Response Center is to serve as the sole national point of contact for reporting oil, chemical, radiological, biological, and etiological discharges into the environment anywhere in the United States and its territories.

Government Publication Date: 1987-1989

Emergency Response Notification System: ERNS

Database of oil and hazardous substances spill reports made available by the United States Coast Guard National Response Center (NRC). The NRC fields initial reports for pollution and railroad incidents and forwards that information to appropriate federal/state agencies for response. These data contain initial incident data that has not been validated or investigated by a federal/state response agency.

Government Publication Date: Jul 26, 2021

The Assessment, Cleanup and Redevelopment Exchange System (ACRES) Brownfield Database: FED BROWNFIELDS

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 protects the environment, reduces blight, and takes development pressures off greenspaces and working lands. This database is made available by the United States Environmental Protection Agency (EPA).

Government Publication Date: Aug 20, 2021

FEMA Underground Storage Tank Listing: FEMA UST

The Federal Emergency Management Agency (FEMA) of the Department of Homeland Security maintains a list of FEMA owned underground storage tanks.

Government Publication Date: Dec 31, 2017

Facility Response Plan: FRP

List of facilities that have submitted Facility Response Plans (FRP) to EPA. Facilities that could reasonably be expected to cause "substantial harm" to the environment by discharging oil into or on navigable waters are required to prepare and submit Facility Response Plans (FRPs). Harm is determined based on total oil storage capacity, secondary containment and age of tanks, oil transfer activities, history of discharges, proximity to a public drinking water intake or sensitive environments.

Government Publication Date: Dec 2, 2020

Historical Gas Stations: HIST GAS STATIONS

This historic directory of service stations is provided by the Cities Service Company. The directory includes Cities Service filling stations that were located throughout the United States in 1930.

Government Publication Date: Jul 1, 1930

Petroleum Refineries: REFN

List of petroleum refineries from the U.S. Energy Information Administration (EIA) Refinery Capacity Report. Includes operating and idle petroleum refineries (including new refineries under construction) and refineries shut down during the previous year located in the 50 States, the District of Columbia, Puerto Rico, the Virgin Islands, Guam, and other U.S. possessions. Survey locations adjusted using public data.

Government Publication Date: Jul 10, 2020

Petroleum Product and Crude Oil Rail Terminals: BULK TERMINAL

List of petroleum product and crude oil rail terminals made available by the U.S. Energy Information Administration (EIA). Includes operable bulk petroleum product terminals located in the 50 States and the District of Columbia with a total bulk shell storage capacity of 50,000 barrels or more, and/or the ability to receive volumes from tanker, barge, or pipeline; also rail terminals handling the loading and unloading of crude oil that were active between 2017 and 2018. Petroleum product terminals comes from the EIA-815 Bulk Terminal and Blender Report, which includes working, shell in operation, and shell idle for several major product groupings. Survey locations adjusted using public data.

Government Publication Date: Apr 28, 2020

LIEN on Property: SEMS LIEN

The EPA Superfund Enterprise Management System (SEMS) provides LIEN information on properties under the EPA Superfund Program.

Government Publication Date: Dec 30, 2021

Superfund Decision Documents: SUPERFUND ROD

This database contains a listing of decision documents for Superfund sites. Decision documents serve to provide the reasoning for the choice of (or) changes to a Superfund Site cleanup plan. The decision documents include Records of Decision (ROD), ROD Amendments, Explanations of Significant Differences (ESD), along with other associated memos and files. This information is maintained and made available by the US EPA (Environmental Protection Agency).

Government Publication Date: Nov 16, 2021

State

Methane Gas Study Sites: LANDFILL METHANE

This Investigation of Methane Gas Hazards report was prepared by the Denver Office of Emergency Preparedness in 1981. The purpose of this study was to assess the actual and potential generation, migration, explosive and related problems associated with specified landfills, and to identify existing and potential problems, suggested strategies to prevent, abate, and control such problems and recommend investigative and monitoring functions as may be deemed necessary. The Colorado Department of Health selected eight landfills as priorities due to population density and potential hazards to population and property.

Government Publication Date: Jan 2, 1981

Environmental Covenants and Use Restrictions: COVENANTS

Boundaries of environmental covenant/environmental use restriction sites made available by the Colorado Deparment of Public Health & Environment (CDPHE). CPDHE has the authority to approve requests to restrict the future use of a property using an enforceable agreement called an environmental covenant. Land use restrictions may be used to ensure the cleanup remedy adequately protects human health and the environment when a contaminated site isn't cleaned up completely.

Government Publication Date: Jul 2, 2021

Superfund National Priorities List and Natural Resource Damages sites: SUPERFUND NRD

Boundaries of Superfund National Priorities List sites and Natural Resource Damages sites in Colorado made available by the Colorado Department of Public Health and Environment (CDPHE).

Government Publication Date: Dec 10, 2020

Superfund Sites: SHWS

A list of Superfund sites in Colorado made available by the Colorado Department of Public Health and Environment (CDPHE). In Colorado, the cleanup of Superfund sites is overseen by the CDPHE or the Environmental Protection Agency (EPA). This list includes active Superfund sites, deleted sites, proposed sites, and natural resource damage sites.

Government Publication Date: Jun 2, 2021

Delisted Superfund Sites: DELISTED SHWS

Sites which once appeared on - but have since been removed from - the list of Superfund sites in Colorado made available by the Colorado Department of Public Health and Environment (CDPHE). In Colorado, the cleanup of Superfund sites is overseen by the CDPHE or the Environmental Protection Agency (EPA).

Government Publication Date: Jun 2, 2021

Solid Waste Facilities and Landfills: SWF/LF

The Colorado Department of Public Health and Environment (CDPHE) regulates the management and disposal of solid waste and landfill facilities.

Government Publication Date: Nov 1, 2021

Historical Solid Waste (Closed or Abandoned Landfills): HIST LF

In the early 1980s the Hazardous Materials Waste Management Division of the Colorado Department of Public Health and Environment (CDPHE) conducted a survey of staff members and local agencies. The information gathered was compiled in 1984 for sites that were known or thought to have waste issues. The information is not complete and generally not very definitive or verifiable. This data became the Solid Waste Historical Data. The data is not maintained and has not been since the late 1980s.

Government Publication Date: 1984

Tri-County Historic Landfills: HIST LANDFILLS

A list of historical landfills made available by the Tri-County Health Department (TCHD). The TCHD serves Adams, Arapahoe, and Douglas Counties.

Government Publication Date: Oct 1, 2015

Registered Recycling Facilities: RECYCLING

This list of registered recycling facilities in Colorado is maintained by the Colorado Department of Public Health & Environment (CDPHE). This list includes primarily processing facilities for recyclable materials, such as material recovery facilities, industrial recycling operations, and recyclable material end user sites. Collection centers/drop-off locations are not included unless the site is also processing recyclable materials (separating, sorting, dismantling, grinding, baling, etc.).

Government Publication Date: Sep 1, 2019

Leaking Storage Tanks: LST

A list of leaking storage tank locations from the Colorado Storage Tank Information System (COSTIS) database, including those which have applied for reimbursement from the Petroleum Storage Tank Fund. This list has been made available by the Colorado Department of Labor and Employment (CDLE).

Government Publication Date: Feb 8, 2022

LUST Trust Sites: LUST TRUST

The Division of Oil and Public Safety of the Colorado Department of Labor and Employment (CDLE) manages a Petroleum Storage Tank Fund (The Fund) that receives and processes applications to the Fund for reimbursement of costs related to assessment and cleanup of petroleum contaminated sites.

Government Publication Date: Feb 8, 2022

Delisted Leaking Storage Tanks: DELISTED LST

This database contains a list of leaking storage tank sites and their Funds for reimbursement of costs related to assessment and cleanup that were removed from the Colorado Department of Labor and Employment (CDLE) database.

Government Publication Date: Feb 8, 2022

Underground Storage Tanks: UST

A list of underground storage tanks from the Colorado Storage Tank Information System (COSTIS) database. This database is made available by the Division of Oil and Public Safety of the Colorado Department of Labor and Employment (CDLE).

Government Publication Date: Feb 8, 2022

Aboveground Storage Tanks: AST

A list of aboveground storage tanks from the Colorado Storage Tank Information System (COSTIS) database. This list is made available by the Division of Oil and Public Safety of the Colorado Department of Labor and Employment (CDLE).

Government Publication Date: Feb 8, 2022

Storage Tank Information System (COSTIS): TANKS

The Department of Labor and Employment/Division of Oil and Public Safety manages the Colorado Storage Tank Information System (COSTIS) database that stores information on facilities with storage tanks. This database contains facilities with liquified petroleum gas, liquefied natual gas, and compressed natural gas tanks which are not classified as either USTs or ASTs.

Government Publication Date: Feb 8, 2022

Delisted Storage Tanks: DTNK

This database contains a list of closed storage tank sites that were removed from the Division of Oil and Public Safety of the Colorado Department of Labor and Employment (CDLE) Tank Information System.

Government Publication Date: Feb 8, 2022

Environmental Covenants and Environmental Use Restrictions List: AUL

The Colorado Department of Public Health and Environment (CDPHE) maintains a list of sites that have environmental covenants and use restrictions in place. Land use restrictions may be used to ensure the cleanup remedy adequately protects human health and the environment when a contaminated site is not cleaned up completely.

Government Publication Date: Oct 31, 2021

The Voluntary Cleanup and Redevelopment Program: VCP

The Voluntary Cleanup and Redevelopment program of the Colorado Department of Public Health and Environment (CDPHE) was created in 1994 with the objective to facilitate the redevelopment and transfer of contaminated properties.

Government Publication Date: Feb 14, 2022

Brownfield Sites: BROWNFIELDS

Brownfields Program sites found in the Colorado Environmental Records Search Interactive Map made available by the Colorado Department of Public Health and Environment (CDPHE). Sites which go untouched because of their real or perceived contamination can be rehabilitated using the CDPHE Brownfields Program.
Government Publication Date: Nov 30, 2021

Tribal

Leaking Underground Storage Tanks (LUSTs) on Indian Lands: INDIAN LUST
LUSTs on Tribal/Indian Lands in Region 8, which includes Colorado.
Government Publication Date: Oct 12, 2021

Underground Storage Tanks (USTs) on Indian Lands: INDIAN UST
USTs on Tribal/Indian Lands in Region 8, which includes Colorado.
Government Publication Date: Oct 12, 2021

Delisted Tribal Leaking Storage Tanks: DELISTED ILST
Leaking Underground Storage Tank facilities which have been removed from the Regional Tribal LUST lists made available by the EPA.
Government Publication Date: Oct 12, 2021

Delisted Tribal Underground Storage Tanks: DELISTED IUST
Underground Storage Tank facilities which have been removed from the Regional Tribal UST lists made available by the EPA.
Government Publication Date: Oct 18, 2021

County

No County databases were selected to be included in the search.

Additional Environmental Record Sources

Federal

Facility Registry Service/Facility Index: FINDS/FRS
The Facility Registry Service (FRS) is a centrally managed database that identifies facilities, sites, or places subject to environmental regulations or of environmental interest. FRS creates high-quality, accurate, and authoritative facility identification records through rigorous verification and management procedures that incorporate information from program national systems, state master facility records, and data collected from EPA's Central Data Exchange registrations and data management personnel. This list is made available by the Environmental Protection Agency (US EPA).
Government Publication Date: Nov 2, 2020

Toxics Release Inventory (TRI) Program: TRIS
The EPA's Toxics Release Inventory (TRI) is a database containing data on disposal or other releases of over 650 toxic chemicals from thousands of U. S. facilities and information about how facilities manage those chemicals through recycling, energy recovery, and treatment. One of TRI's primary purposes is to inform communities about toxic chemical releases to the environment.
Government Publication Date: Aug 24, 2021

Perfluorinated Alkyl Substances (PFAS) Releases: PFAS TRI
List of Toxics Release Inventory (TRI) facilities at which the reported chemical is a Per- or polyfluorinated alkyl substance (PFAS) included in the Environmental Protection Agency (EPA)'s consolidated PFAS Master List of PFAS Substances. The EPA's Toxics Release Inventory (TRI) is a database containing data on disposal or other releases of over 650 toxic chemicals from thousands of U.S. facilities and information about how facilities manage those chemicals through recycling, energy recovery, and treatment.
Government Publication Date: Aug 24, 2021

PFOA/PFOS Contaminated Sites: PFAS NPL
List of sites where PFOA or PFOS contaminants have been found in drinking water or soil. Made available by the Federal Environmental Protection Agency (EPA).
Government Publication Date: Jan 11, 2022

Perfluorinated Alkyl Substances (PFAS) Water Quality: PFAS WATER

The Water Quality Portal (WQP) is a cooperative service sponsored by the United States Geological Survey (USGS), the Environmental Protection Agency (EPA), and the National Water Quality Monitoring Council (NWQMC). This listing includes records from the Water Quality Portal where the characteristic (environmental measurement) is in the Environmental Protection Agency (EPA)'s consolidated PFAS Master List of PFAS Substances.

Government Publication Date: Jul 20, 2020

SSEHRI PFAS Contamination Sites: PFAS SSEHRI

This PFAS Contamination Site Tracker database is compiled by the Social Science Environmental Health Research Institute (SSEHRI) at Northeastern University. According to the SSEHRI, the database records qualitative and quantitative data from each known site of PFAS contamination, including timeline of discovery, sources, levels, health impacts, community response, and government response. The goal of this database is to compile information and support public understanding of the rapidly unfolding issue of PFAS contamination. All data presented was extracted from government websites, news articles, or publicly available documents, and this is cited in the tracker. Disclaimer: The source conveys this database undergoes regular updates as new information becomes available, some sites may be missing and/or contain information that is incorrect or outdated, as well as their information represents all contamination sites SSEHRI is aware of, not all possible contamination sites. This data is not intended to be used for legal purposes. Limited location details are available with this data. Access the following for the most current informations https://pfasproject.com/pfas-contamination-site-tr acker/

Government Publication Date: Dec 12, 2019

Hazardous Materials Information Reporting System: HMIRS

US DOT - Department of Transportation Pipeline and Hazardous Materials Safety Administration (PHMSA) Incidents Reports Database taken from Hazmat Intelligence Portal, U.S. Department of Transportation.

Government Publication Date: Sep 1, 2020

National Clandestine Drug Labs: NCDL

The U.S. Department of Justice ("the Department") provides this data 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.

Government Publication Date: Nov 22, 2021

Toxic Substances Control Act: TSCA

The Environmental Protection Agency (EPA) is amending the Toxic Substances Control Act (TSCA) section 8(a) Inventory Update Reporting (IUR) rule and changing its name to the Chemical Data Reporting (CDR) rule.

The CDR enables EPA to collect and publish information on the manufacturing, processing, and use of commercial chemical substances and mixtures (referred to hereafter as chemical substances) on the TSCA Chemical Substance Inventory (TSCA Inventory). This includes current information on chemical substance production volumes, manufacturing sites, and how the chemical substances are used. This information helps the Agency determine whether people or the environment are potentially exposed to reported chemical substances. EPA publishes submitted CDR data that is not Confidential Business Information (CBI).

Government Publication Date: Apr 11, 2019

Hist TSCA: HIST TSCA

The Environmental Protection Agency (EPA) is amending the Toxic Substances Control Act (TSCA) section 8(a) Inventory Update Reporting (IUR) rule and changing its name to the Chemical Data Reporting (CDR) rule.

The 2006 IUR data summary report includes information about chemicals manufactured or imported in quantities of 25,000 pounds or more at a single site during calendar year 2005. In addition to the basic manufacturing information collected in previous reporting cycles, the 2006 cycle is the first time EPA collected information to characterize exposure during manufacturing, processing and use of organic chemicals. The 2006 cycle also is the first time manufacturers of inorganic chemicals were required to report basic manufacturing information.

Government Publication Date: Dec 31, 2006

FTTS Administrative Case Listing: FTTS ADMIN

An administrative case listing from the Federal Insecticide, Fungicide, & Rodenticide Act (FIFRA) and Toxic Substances Control Act (TSCA), together known as FTTS. This database was obtained from the Environmental Protection Agency's (EPA) National Compliance Database (NCDB). The FTTS and NCDB was shut down in 2006.

Government Publication Date: Jan 19, 2007

FTTS Inspection Case Listing: FTTS INSP

An inspection case listing from the Federal Insecticide, Fungicide, & Rodenticide Act (FIFRA) and Toxic Substances Control Act (TSCA), together known as FTTS. This database was obtained from the Environmental Protection Agency's (EPA) National Compliance Database (NCDB). The FTTS and NCDB was shut down in 2006.

Government Publication Date: Jan 19, 2007

Potentially Responsible Parties List: PRP

Early in the cleanup process, the Environmental Protection Agency (EPA) conducts a search to find the potentially responsible parties (PRPs). EPA looks for evidence to determine liability by matching wastes found at the site with parties that may have contributed wastes to the site.

Government Publication Date: Oct 20, 2021

State Coalition for Remediation of Drycleaners Listing: SCRD DRYCLEANER

The State Coalition for Remediation of Drycleaners (SCRD) was established in 1998, with support from the U.S. Environmental Protection Agency (EPA) Office of Superfund Remediation and Technology Innovation. Coalition members are states with mandated programs and funding for drycleaner site remediation. Current members are Alabama, Connecticut, Florida, Illinois, Kansas, Minnesota, Missouri, North Carolina, Oregon, South Carolina, Tennessee, Texas, and Wisconsin.

Government Publication Date: Nov 08, 2017

Integrated Compliance Information System (ICIS): ICIS

The Integrated Compliance Information System (ICIS) is a system that provides information for the Federal Enforcement and Compliance (FE&C) and the National Pollutant Discharge Elimination System (NPDES) programs. The FE&C component supports the Environmental Protection Agency's (EPA) Civil Enforcement and Compliance program activities. These activities include Compliance Assistance, Compliance Monitoring and Enforcement. The NPDES program supports tracking of NPDES permits, limits, discharge monitoring data and other program reports.

Government Publication Date: Oct 14, 2021

Drycleaner Facilities: FED DRYCLEANERS

A list of drycleaner facilities from Enforcement and Compliance History Online (ECHO) online search. The Environmental Protection Agency (EPA) tracks facilities that possess NAIC and SIC codes that classify businesses as drycleaner establishments.

Government Publication Date: May 5, 2021

Delisted Drycleaner Facilities: DELISTED FED DRY

List of sites removed from the list of Drycleaner Facilities (sites in the EPA's Integrated Compliance Information System (ICIS) with NAIC or SIC codes identifying the business as a drycleaner establishment).

Government Publication Date: May 5, 2021

Formerly Used Defense Sites: FUDS

Formerly Used Defense Sites (FUDS) are properties that were formerly owned by, leased to, or otherwise possessed by and under the jurisdiction of the Secretary of Defense prior to October 1986, where the Department of Defense (DoD) is responsible for an environmental restoration. This list is published by the U.S. Army Corps of Engineers.

Government Publication Date: May 26, 2021

Former Military Nike Missile Sites: FORMER NIKE

This information was taken from report DRXTH-AS-IA-83A016 (Historical Overview of the Nike Missile System, 12/1984) which was performed by Environmental Science and Engineering, Inc. for the U.S. Army Toxic and Hazardous Materials Agency Assessment Division. The Nike system was deployed between 1954 and the mid-1970's. Among the substances used or stored on Nike sites were liquid missile fuel (JP-4); starter fluids (UDKH, aniline, and furfuryl alcohol); oxidizer (IRFNA); hydrocarbons (motor oil, hydraulic fluid, diesel fuel, gasoline, heating oil); solvents (carbon tetrachloride, trichloroethylene, trichloroethane, stoddard solvent); and battery electrolyte. The quantities of material a disposed of and procedures for disposal are not documented in published reports. Virtually all information concerning the potential for contamination at Nike sites is confined to personnel who were assigned to Nike sites. During deactivation most hardware was shipped to depot-level supply points. There were reportedly instances where excess materials were disposed of on or near the site itself at closure. There was reportedly no routine site decontamination.

Government Publication Date: Dec 2, 1984

PHMSA Pipeline Safety Flagged Incidents: PIPELINE INCIDENT

A list of flagged pipeline incidents made available by the U.S. Department of Transportation (US DOT) Pipeline and Hazardous Materials Safety Administration (PHMSA). PHMSA regulations require incident and accident reports for five different pipeline system types.

Government Publication Date: Jul 7, 2020

Material Licensing Tracking System (MLTS): MLTS

A list of sites that store radioactive material subject to the Nuclear Regulatory Commission (NRC) licensing requirements. This list is maintained by the NRC. As of September 2016, the NRC no longer releases location information for sites. Site locations were last received in July 2016.

Government Publication Date: May 11, 2021

Historic Material Licensing Tracking System (MLTS) sites: HIST MLTS

A historic list of sites that have inactive licenses and/or removed from the Material Licensing Tracking System (MLTS). In some cases, a site is removed from the MLTS when the state becomes an "Agreement State". An Agreement State is a State that has signed an agreement with the Nuclear Regulatory Commission (NRC) authorizing the State to regulate certain uses of radioactive materials within the State.

Government Publication Date: Jan 31, 2010

Mines Master Index File: MINES

The Master Index File (MIF) contains mine identification numbers issued by the Department of Labor Mine Safety and Health Administration (MSHA) for mines active or opened since 1971. Note that addresses may or may not correspond with the physical location of the mine itself.

Government Publication Date: Nov 2, 2021

Surface Mining Control and Reclamation Act Sites: SMCRA

An inventory of land and water impacted by past mining (primarily coal mining) is maintained by the Office of Surface Mining Reclamation and Enforcement (OSMRE) to provide information needed to implement the Surface Mining Control and Reclamation Act of 1977 (SMCRA). The inventory contains information on the location, type, and extent of Abandoned Mine Land (AML) impacts, as well as information on the cost associated with the reclamation of those problems. The inventory is based upon field surveys by State, Tribal, and OSMRE program officials. It is dynamic to the extent that it is modified as new problems are identified and existing problems are reclaimed.

Government Publication Date: Dec 18, 2020

Mineral Resource Data System: MRDS

The Mineral Resource Data System (MRDS) is a collection of reports describing metallic and nonmetallic mineral resources throughout the world. Included are deposit name, location, commodity, deposit description, geologic characteristics, production, reserves, resources, and references. This database contains the records previously provided in the Mineral Resource Data System (MRDS) of USGS and the Mineral Availability System/Mineral Industry Locator System (MAS/MILS) originated in the U.S. Bureau of Mines, which is now part of USGS. The USGS has ceased systematic updates of the MRDS database with their focus more recently on deposits of critical minerals while providing a well-documented baseline of historical mine locations from USGS topographic maps.

Government Publication Date: Mar 15, 2006

Uranium Mill Tailings Radiation Control Act Sites: URANIUM

The Legacy Management Office of the Department of Energy (DOE) manages radioactive and chemical waste, environmental contamination, and hazardous material at over 100 sites across the U.S. The L.M. Office manages this database of sites registered under the Uranium Mill Tailings Control Act (UMTRCA).

Government Publication Date: Mar 4, 2017

Alternative Fueling Stations: ALT FUELS

List of alternative fueling stations made available by the US Department of Energy's Office of Energy Efficiency & Renewable Energy. Includes Biodiesel stations, Ethanol (E85) stations, Liquefied Petroleum Gas (Propane) stations, Ethanol (E85) stations, Natural Gas stations, Hydrogen stations, and Electric Vehicle Supply Equipment (EVSE). The National Renewable Energy Laboratory (NREL) obtains information about new stations from trade media, Clean Cities coordinators, a Submit New Station form on the Station Locator website, and through collaborating with infrastructure equipment and fuel providers, original equipment manufacturers (OEMs), and industry groups.

Government Publication Date: Dec 21, 2021

Registered Pesticide Establishments: SSTS

List of active EPA-registered foreign and domestic pesticide-producing and device-producing establishments based on data from the Section Seven Tracking System (SSTS). The Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA) Section 7 requires that facilities producing pesticides, active ingredients, or devices be registered. The list of establishments is made available by the EPA.

Government Publication Date: Apr 13, 2021

Polychlorinated Biphenyl (PCB) Notifiers: PCB

Facilities included in the national list of facilities that have notified the United States Environmental Protection Agency (EPA) of Polychlorinated Biphenyl (PCB) activities. Any company or person storing, transporting or disposing of PCBs or conducting PCB research and development must notify the EPA and receive an identification number.

Government Publication Date: Jan 20, 2022

State

Spills: SPILLS

A list of hazardous material spills and releases (including Meth Labs) that were reported to the Colorado Department of Public Health and Environment (CDPHE).

Government Publication Date: Jan 31, 2022

Colorado Oil and Gas Conservation Commission Spills: OG SPILLS

A list of spills made available by the Colorado Oil and Gas Conservation Commission (COGCC).

Government Publication Date: Feb 6, 2022

Dry Cleaning Facilities: DRYCLEANERS

A list of drycleaning facilities in Colorado that have submitted an Air Pollutant Emission Notice (APEN). This list was provided by the Department of Public Health & Environment.

Government Publication Date: Jan 27, 2022

Delisted Dry Cleaning Facilities: DELISTED DRYCLEANERS

List of sites removed from the drycleaners database made available by the Department of Public Health & Environment.

Government Publication Date: Jan 27, 2022

Air Pollution Control Division Permitted Facilities: AIR PERMITS

This list of Air Pollution Control Division Permitted Facilities is maintained by the Colorado Department of Public Health and Environment. The Stationary Sources Program evaluates and develops air permits for stationary sources in Colorado. The program inspects sources to determine compliance with air regulations and permit conditions and maintains an inventory of air pollution emissions throughout the state.

Government Publication Date: Jun 29, 2020

Per- and Polyfluoroalkyl Substances (PFAS): PFAS

A list of incidents that were reported to the Colorado Department of Public Health and Environment (CDPHE) where the release material is in the PFAS Master List of PFAS Substances made available by the Environmental Protection Agency (US EPA).

Government Publication Date: Jan 31, 2022

Asbestos Abatement and Demolition Projects: ASBESTOS

A list of Asbestos Abatement and Demolition Projects made available by the Colorado Department of Public Health and Environment (CDPHE), Air Pollution Control Division.

Government Publication Date: Dec 28, 2017

Hazardous Waste Sites- Generator: HAZ GEN

A list of hazardous waste generators.This list is made available by the Colorado Department of Public Health and Environment (CDPHE).

Government Publication Date: Jun 30, 2003

Permitted Facilities Listing: NPDES

A list of permitted facilities tracked by the Water Quality Control Division of the Department of Public Health & Environment (DPHE). This list is the state version of the NPDES (National Pollution Discharge Elimination System).

Government Publication Date: Jan 5, 2022

Hazardous Waste Sites- Treatment, Storage & Disposal: HAZ TSD

A list of facilities that treat, store, dispose, or recycle hazardous waste on-site. This list is made available by the Colorado Department of Public Health and Environment (CDPHE).

Government Publication Date: Jun 30, 2003

Hazardous Waste Sites- Corrective Action: HAZ CORRACT

A list of hazardous waste generators with corrective actions. This list is made available by the Colorado Department of Public Health and Environment (CDPHE).

Government Publication Date: Jun 30, 2003

Uranium Mill Tailings Sites: UMTRA

There were nine uranium mill tailings sites in Colorado designated for cleanup under the Federal Uranium Mill Tailings Radiation Control Act (UMTRA). These nine sites, know commonly as UMTRA sites, were remediated jointly by the State of Colorado and the U.S. Department of Energy during the late 1980's and early 1990's. Mill tailings were removed from 8 of the mill sites and relocated in engineered disposal cells. A disposal cell is designed to encapsulate the material, reduce radon emanation, and prevent the movement of water through the material. At one site, Maybell, CO, the tailings were stabilized in-place at the mill site. After remediation of the tailings was completed, the State and DOE began to investigate the residual impacts to groundwater at the mill sites. The groundwater phase of the UMTRA program is on-going. This database was provided by the Colorado Department of Public Health and Environment in 2008.

Government Publication Date: Feb 12, 2019

Tribal

No Tribal additional environmental record sources available for this State.

County

No County additional environmental databases were selected to be included in the search.

Definitions

Database Descriptions: This section provides a detailed explanation for each database including: source, information available, time coverage, and acronyms used. They are listed in alphabetic order.

Detail Report: This is the section of the report which provides the most detail for each individual record. Records are summarized by location, starting with the project property followed by records in closest proximity.

Distance: The distance value is the distance between plotted points, not necessarily the distance between the sites' boundaries. All values are an approximation.

Direction: The direction value is the compass direction of the site in respect to the project property and/or center point of the report.

Elevation: The elevation value is taken from the location at which the records for the site address have been plotted. All values are an approximation. Source: Google Elevation API.

Executive Summary: This portion of the report is divided into 3 sections:

'Report Summary'- Displays a chart indicating how many records fall on the project property and, within the report search radii.

'Site Report Summary'-Project Property'- This section lists all the records which fall on the project property. For more details, see the 'Detail Report' section.

'Site Report Summary-Surrounding Properties'- This section summarizes all records on adjacent properties, listing them in order of proximity from the project property. For more details, see the 'Detail Report' section.

Map Key: The map key number is assigned according to closest proximity from the project property. Map Key numbers always start at #1. The project property will always have a map key of '1' if records are available. If there is a number in brackets beside the main number, this will indicate the number of records on that specific property. If there is no number in brackets, there is only one record for that property.

The symbol and colour used indicates 'elevation': the red inverted triangle will dictate 'ERIS Sites with Lower Elevation', the yellow triangle will dictate 'ERIS Sites with Higher Elevation' and the orange square will dictate 'ERIS Sites with Same Elevation.'

Unplottables: These are records that could not be mapped due to various reasons, including limited geographic information. These records may or may not be in your study area, and are included as reference.

HISTORICAL AERIALS

Project Property: Little Gaynor Lake
Little Gaynor Lake
Little Gaynor Lake CO 80504

Project No:

Requested By: Apex Consulting Services, Inc.

Order No: 22030400758

Date Completed: March 07,2022

Environmental Risk Information Services
A division of Glacier Media Inc.
1.866.517.5204 | info@erisinfo.com | erisinfo.com

Date	Source	Scale	Comments
2019	United States Department of Agriculture	1" = 500'	
2017	United States Department of Agriculture	1" = 500'	
2015	United States Department of Agriculture	1" = 500'	
2013	United States Department of Agriculture	1" = 500'	
2011	United States Department of Agriculture	1" = 500'	
2005	United States Department of Agriculture	1" = 500'	
2004	United States Department of Agriculture	1" = 500'	
1994	National Aeronautics And Space Admin	1" = 500'	Best Copy Available
1988	United States Geological Survey	1" = 500'	Best Copy Available
1983	United States Geological Survey	1" = 500'	
1978	United States Geological Survey	1" = 500'	
1971	United States Geological Survey	1" = 500'	
1967	United States Geological Survey	1" = 500'	
1963	Agricultural Stabilization & Conserv. Service	1" = 500'	Photo Index-Best Available
1953	Army Mapping Service	1" = 500'	
1948	United States Geological Survey	1" = 500'	
1941	Agricultural Stabilization & Conserv. Service	1" = 500'	
1937	Agricultural Stabilization & Conserv. Service	1" = 500'	

Year: 2019
Source: USDA
Scale: 1" = 500'
Comment:

Address: Little Gaynor Lake, Little Gaynor Lake, CO
Approx Center: -105.1251473,40.1137636

Order No: 22030400758

ERIS

Year: 2017
Source: USDA
Scale: 1" = 500'
Comment:

Address: Little Gaynor Lake, Little Gaynor Lake, CO
Approx Center: -105.1251473,40.1137636

Order No: 22030400758

ERIS

Year: 2015
Source: USDA
Scale: 1" = 500'
Comment:

Address: Little Gaynor Lake, Little Gaynor Lake, CO
Approx Center: -105.1251473,40.1137636

Order No: 22030400758

ERIS

Year: 2013
Source: USDA
Scale: 1" = 500'
Comment:

Address: Little Gaynor Lake, Little Gaynor Lake, CO
Approx Center: -105.1251473,40.1137636

Order No: 22030400758

ERIS

Year: 2011
Source: USDA
Scale: 1" = 500'
Comment:

Address: Little Gaynor Lake, Little Gaynor Lake, CO
Approx Center: -105.1251473,40.1137636

Order No: 22030400758

ERIS

Year: 2005
Source: USDA
Scale: 1" = 500'
Comment:

Address: Little Gaynor Lake, Little Gaynor Lake, CO
Approx Center: -105.1251473,40.1137636

Order No: 22030400758

ERIS

Year: 2004
Source: USDA
Scale: 1" = 500'
Comment:

Address: Little Gaynor Lake, Little Gaynor Lake, CO
Approx Center: -105.1251473,40.1137636

Order No: 22030400758

ERIS

Year: 1994
Source: NASA
Scale: 1" = 500'
Comment: Best Copy Available

Address: Little Gaynor Lake, Little Gaynor Lake, CO
Approx Center: -105.1251473,40.1137636

Order No: 22030400758

ERIS

Year: 1988
Source: USGS
Scale: 1" = 500'
Comment: Best Copy Available

Address: Little Gaynor Lake, Little Gaynor Lake, CO
Approx Center: -105.1251473,40.1137636

Order No: 22030400758

ERIS

Year: 1983
Source: USGS
Scale: 1" = 500'
Comment:

Address: Little Gaynor Lake, Little Gaynor Lake, CO
Approx Center: -105.1251473,40.1137636

Order No: 22030400758

ERIS

Year: 1978
Source: USGS
Scale: 1" = 500'
Comment:

Address: Little Gaynor Lake, Little Gaynor Lake, CO
Approx Center: -105.1251473,40.1137636

Order No: 22030400758

ERIS

Year: 1971
Source: USGS
Scale: 1" = 500'
Comment:

Address: Little Gaynor Lake, Little Gaynor Lake, CO
Approx Center: -105.1251473,40.1137636

Order No: 22030400758

ERIS

Year: 1967
Source: USGS
Scale: 1" = 500'
Comment:

Address: Little Gaynor Lake, Little Gaynor Lake, CO
Approx Center: -105.1251473,40.1137636

Order No: 22030400758

ERIS

Year: 1963
Source: ASCS
Scale: 1" = 500'
Comment: Photo Index-Best Available

Address: Little Gaynor Lake, Little Gaynor Lake, CO
Approx Center: -105.1251473,40.1137636

Order No: 22030400758

ERIS

Year: 1953
Source: AMS
Scale: 1" = 500'
Comment:

Address: Little Gaynor Lake, Little Gaynor Lake, CO
Approx Center: -105.1251473,40.1137636

Order No: 22030400758

ERIS

Year: 1948
Source: USGS
Scale: 1" = 500'
Comment:

Address: Little Gaynor Lake, Little Gaynor Lake, CO
Approx Center: -105.1251473,40.1137636

Order No: 22030400758

ERIS

Year: 1941
Source: ASCS
Scale: 1" = 500'
Comment:

Address: Little Gaynor Lake, Little Gaynor Lake, CO
Approx Center: -105.1251473,40.1137636

Order No: 22030400758

ERIS

Year: 1937
Source: ASCS
Scale: 1" = 500'
Comment:

Address: Little Gaynor Lake, Little Gaynor Lake, CO
Approx Center: -105.1251473,40.1137636

Order No: 22030400758

ERIS

PSR
PHYSICAL SETTING REPORT

Property Information

Order Number:		22030400758p
Date Completed:		March 6, 2022
Project Number:		
Project Property:		Little Gaynor Lake Little Gaynor Lake Little Gaynor Lake CO 80504
Coordinates:		
	Latitude:	40.1137636
	Longitude:	-105.1251473
	UTM Northing:	4440391.49418 Meters
	UTM Easting:	489335.211549 Meters
	UTM Zone:	UTM Zone 13T
	Elevation:	5,023.89 ft
	Slope Direction:	NE

Topographic Information....2
Hydrologic Information....4
Geologic Information....7
Soil Information....9
Wells and Additional Sources....20
Summary....21
Detail Report....23
Radon Information....60
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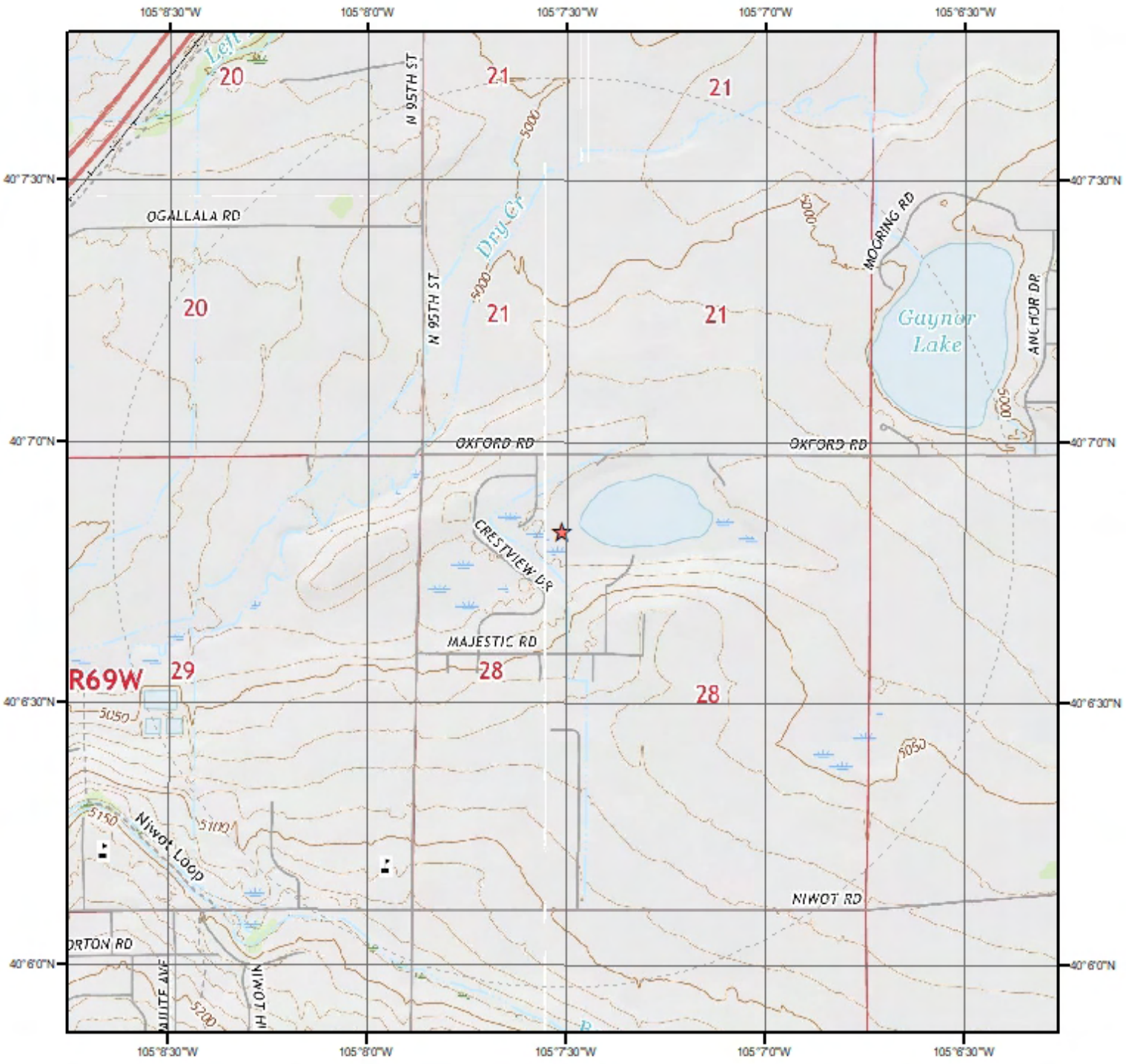
The ERIS ***Physical Setting Report - PSR*** provides comprehensive information about the physical setting around a site and includes a complete overview of topography and surface topology, in addition to hydrologic, geologic and soil characteristics. The location and detailed attributes of oil and gas wells, water wells, public water systems and radon are also included for review.

The compilation of both physical characteristics of a site and additional attribute data is useful in assessing the impact of migration of contaminants and subsequent impact on soils and groundwater.

Disclaimer

This Report does not provide a full environmental evaluation for the site or adjacent properties. Please see the terms and disclaimer at the end of the Report for greater detail.

Topographic Information



Current USGS Topo (2016)

0 0.2 0.4 0.8 Miles

N

Quadrangle(s): Erie,CO; Hygiene,CO; Longmont,CO; Niwot,CO

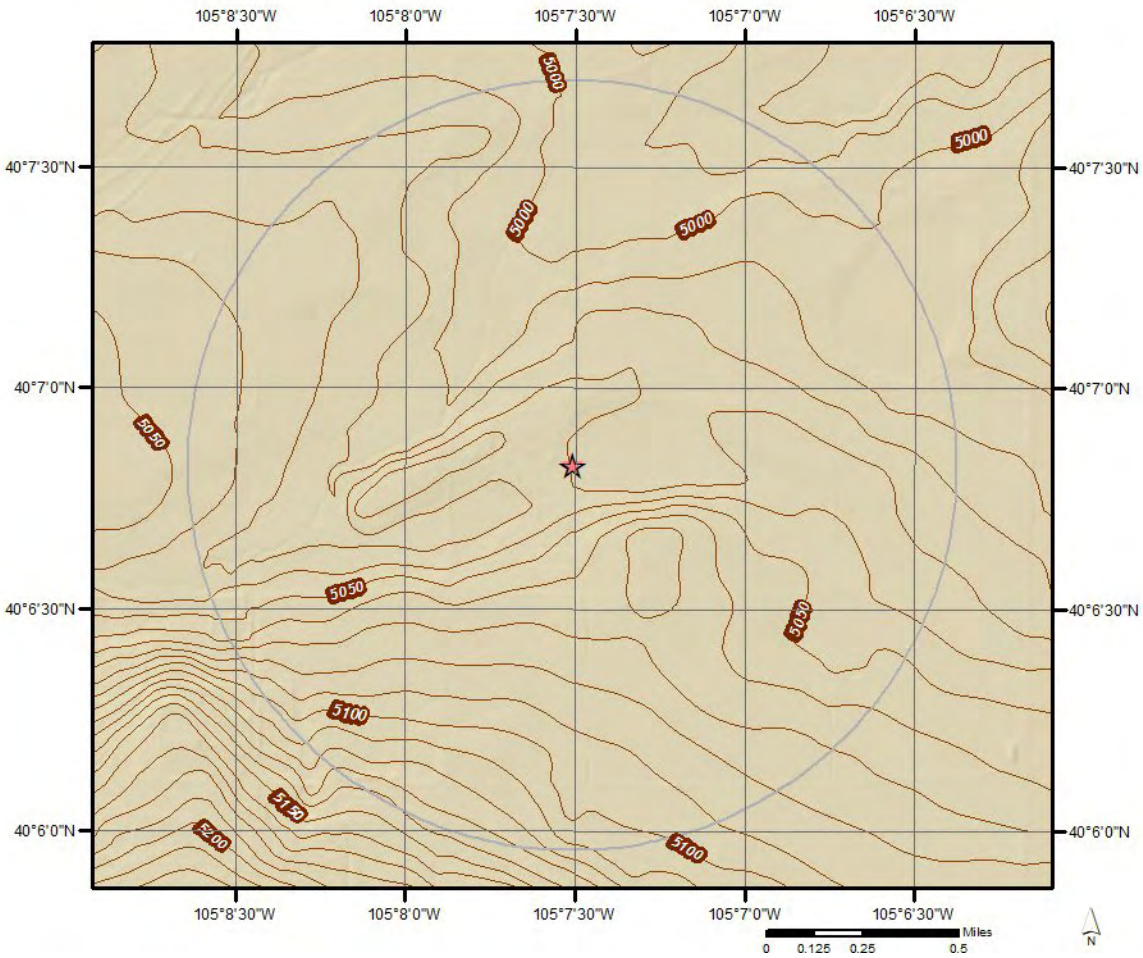
Source: USGS 7.5 Minute Topographic Map

Topographic Information

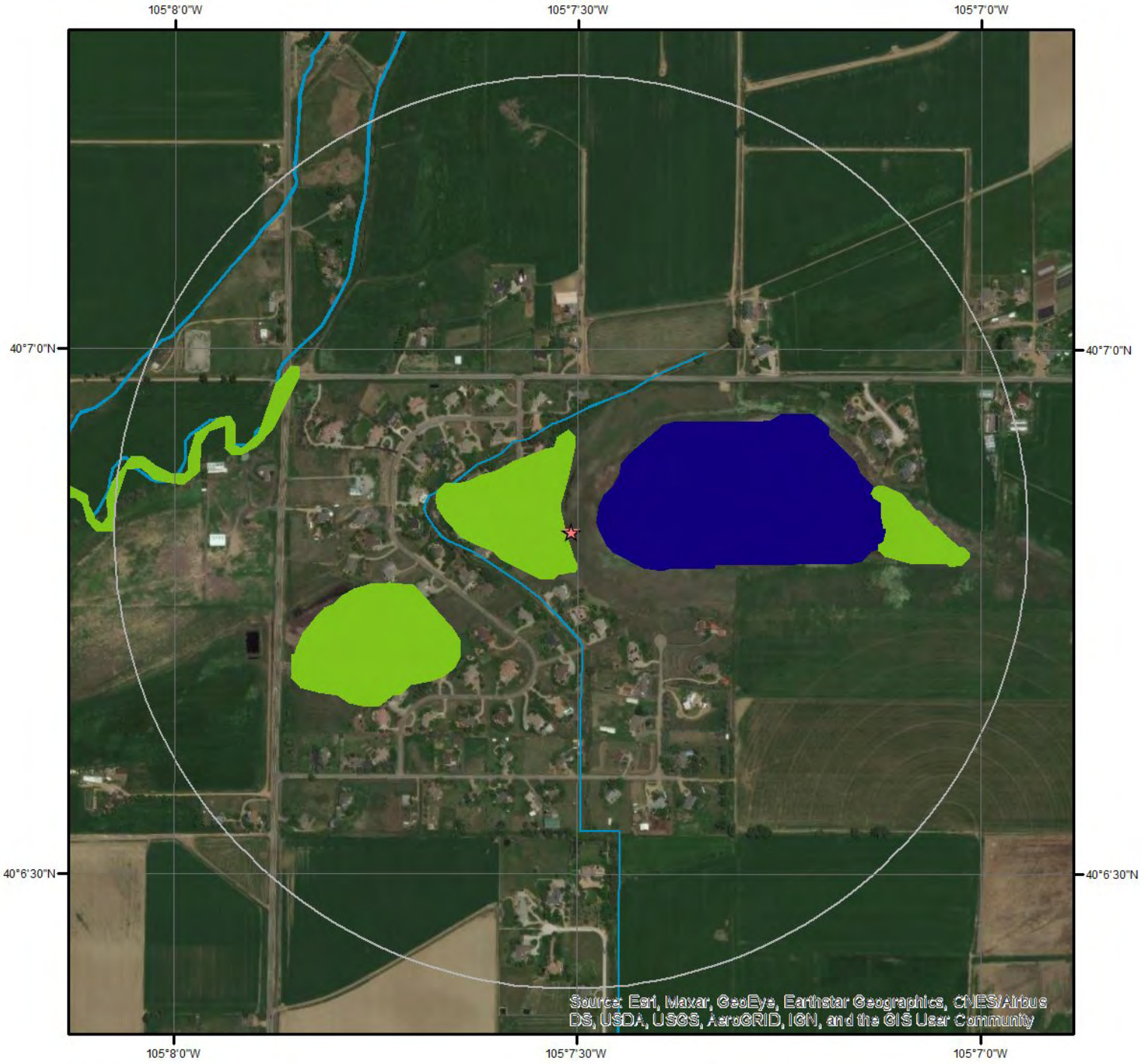
The previous topographic map(s) are created by seamlessly merging and cutting current USGS topographic data. Below are shaded relief map(s), derived from USGS elevation data to show surrounding topography in further detail.

Topographic information at project property:

Elevation:	5,023.89 ft
Slope Direction:	NE



Hydrologic Information



Wetland

0 0.05 0.1 0.2 Miles

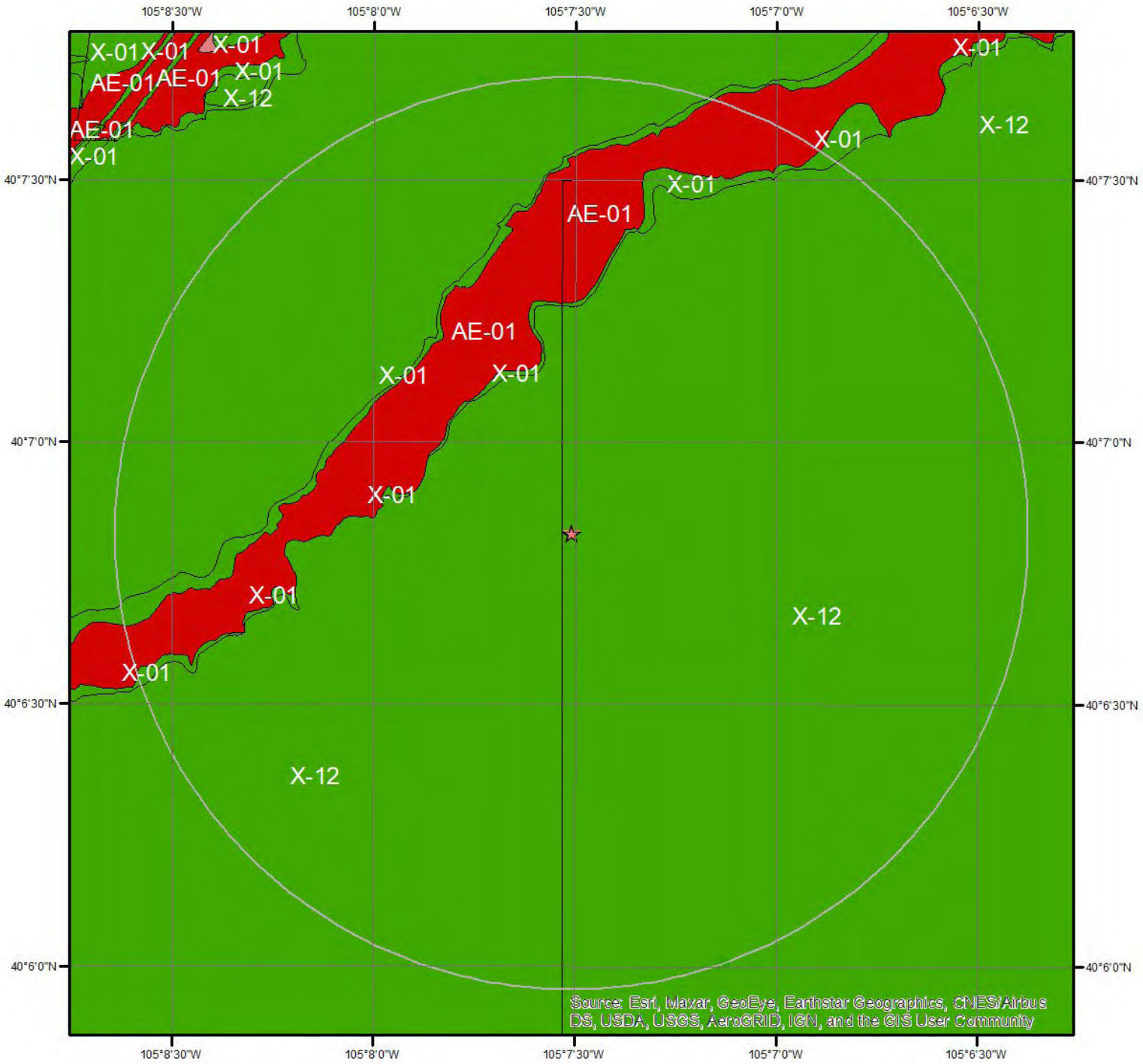
N

This map shows wetland existence using data from US Fish & Wildlife.
Data coverage is shown to the right. Gray indicates no data available in the area.

- Estuarine and Marine Deepwater
- Estuarine and Marine Wetland
- Freshwater Emergent Wetland
- Freshwater Forested/Shrub Wetland
- Freshwater Pond
- Lake
- Other
- Riverine

ERIS

Hydrologic Information



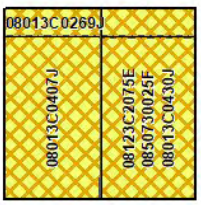
Flood Hazard Zones

This map shows FEMA flood hazard zones. FIRM panels are shown to the right, and blank indicates no data is available.

Miles
0 0.2 0.4

N

A	AO	X
A99	V	OPEN WATER
AE	VE	NOT POPULATED
AH	D	AREA NOT INCLUDED



ERIS

Hydrologic Information

The Wetland Type map shows wetland existence overlaid on an aerial imagery. The Flood Hazard Zones map shows FEMA flood hazard zones overlaid on an aerial imagery. Relevant FIRM panels and detailed zone information is provided below.
For detailed Zone descriptions please click the link: https://floodadvocate.com/fema-zone-definitions

Available FIRM Panels in area:	08013C0288J(effective:2012-12-18) 08013C0269J(effective:2012-12-18) 08013C0430J(effective:2012-12-18) 08013C0407J(effective:2012-12-18) 08123C2075E(effective:2016-01-20) 08123C1875E(effective:2016-01-20) 0850730025F(effective:2004-08-18)

Flood Zone AE-01

Zone:	AE
Zone subtype:	

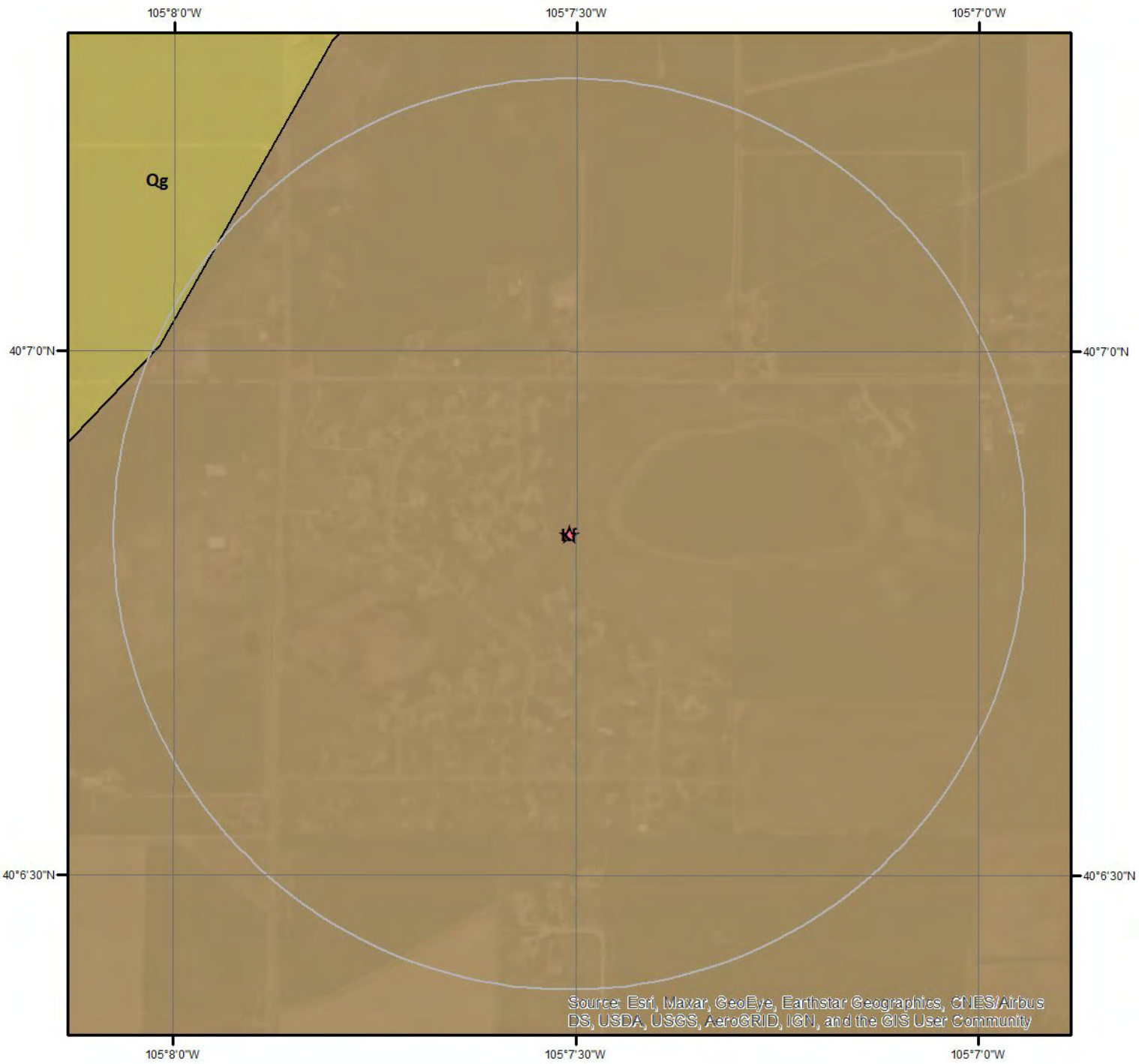
Flood Zone X-01

Zone:	X
Zone subtype:	0.2 PCT ANNUAL CHANCE FLOOD HAZARD

Flood Zone X-12

Zone:	X
Zone subtype:	AREA OF MINIMAL FLOOD HAZARD

Geologic Information



Miles
0 0.175 0.35
N

Geologic Units

This maps shows geologic units in the area. Please refer to the report for detailed descriptions.

Geologic Information

The previous page shows USGS geology information. Detailed information about each unit is provided below.

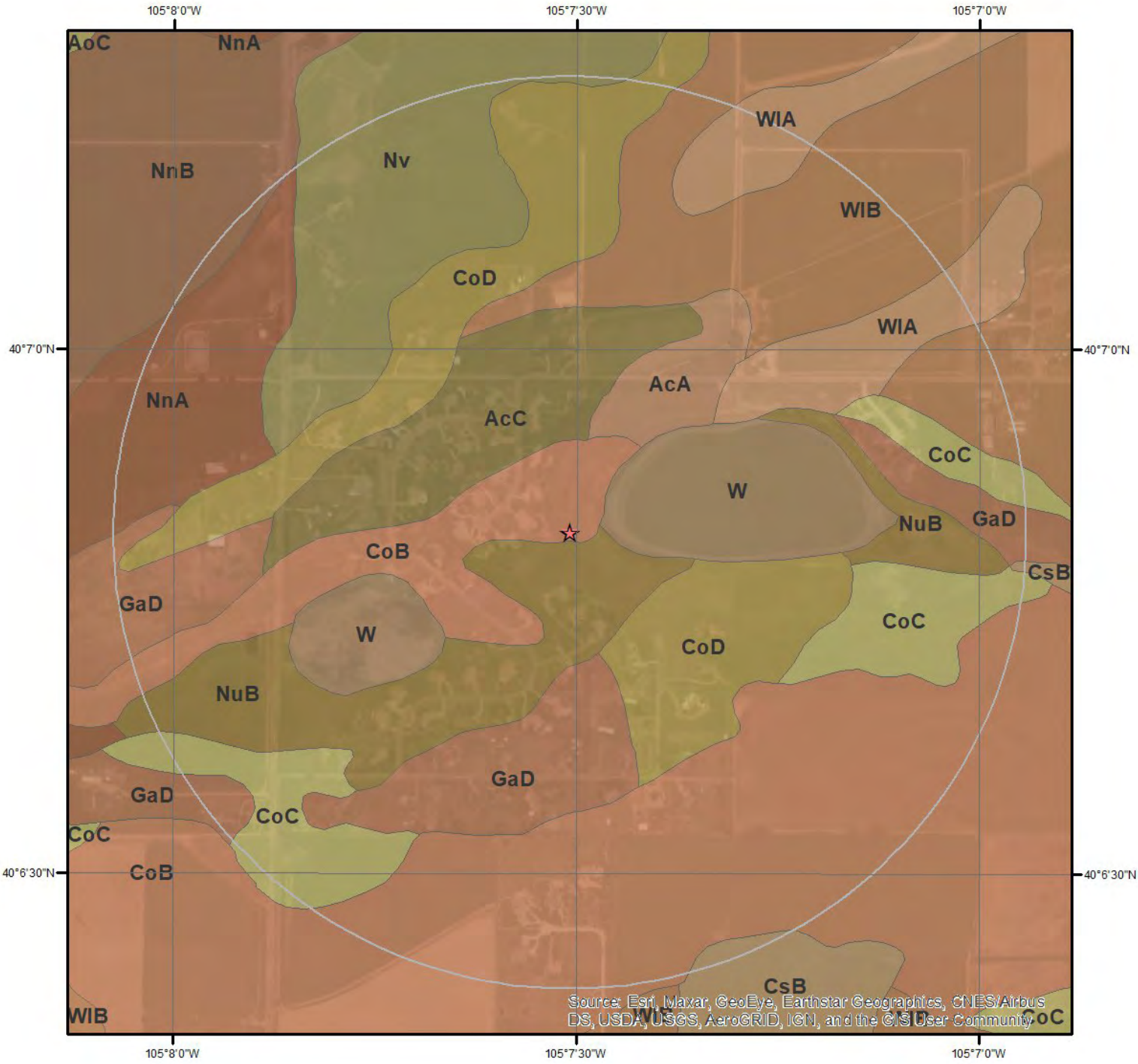
Geologic Unit Qg

Unit Name:	Gravels and alluviums
Unit Age:	Phanerozoic | Cenozoic | Quaternary
Primary Rock Type:	gravel
Secondary Rock Type:	alluvium
Unit Description:	Includes Broadway and Louviers Alluviums

Geologic Unit Kf

Unit Name:	Fox Hills Sandstone
Unit Age:	Phanerozoic | Mesozoic | Cretaceous
Primary Rock Type:	sandstone
Secondary Rock Type:	
Unit Description:	No description available.

Soil Information



SSURGO Soils

0 0.175 0.35 Miles N

This maps shows SSURGO soil units around the target property. Please refer to the report for detailed soil descriptions.

ERIS

Soil Information

The previous page shows a soil map using SSURGO data from USDA Natural Resources Conservation Service. Detailed information about each unit is provided below.

Map Unit AcA (0.48%)

Map Unit Name:	Ascalon sandy loam, 0 to 3 percent slopes
Bedrock Depth - Min:	null
Watertable Depth - Annual Min:	null
Drainage Class - Dominant:	Well drained
Hydrologic Group - Dominant:	B - Soils in this group have moderately low runoff potential when thoroughly wet. Water transmission through the soil is unimpeded.

Major components are printed below

Ascalon(85%)

horizon Ap(0cm to 15cm)	Sandy loam
horizon Bt1(15cm to 30cm)	Sandy clay loam
horizon Bt2(30cm to 48cm)	Sandy clay loam
horizon Bk(48cm to 89cm)	Sandy clay loam
horizon C(89cm to 203cm)	Sandy loam

Component Description:

Minor map unit components are excluded from this report.

Map Unit: AcA - Ascalon sandy loam, 0 to 3 percent slopes

Component: Ascalon (85%)
The Ascalon component makes up 85 percent of the map unit. Slopes are 0 to 3 percent. This component is on broad, flat interfluves, plains. The parent material consists of wind-reworked alluvium and/or calcareous sandy eolian deposits. Depth to a root restrictive layer is greater than 60 inches. The natural drainage class is well drained. Water movement in the most restrictive layer is moderately high. Available water to a depth of 60 inches (or restricted depth) is moderate. Shrink-swell potential is low. This soil is not flooded. It is not ponded. There is no zone of water saturation within a depth of 72 inches. Organic matter content in the surface horizon is about 1 percent. This component is in the R067BY024CO Sandy Plains ecological site. Nonirrigated land capability classification is 4c. Irrigated land capability classification is 3e. This soil does not meet hydric criteria. The calcium carbonate equivalent within 40 inches, typically, does not exceed 8 percent. There are no saline horizons within 30 inches of the soil surface.

Component: Olnest (10%)
Generated brief soil descriptions are created for major soil components. The Olnest soil is a minor component.

Component: Vona (5%)
Generated brief soil descriptions are created for major soil components. The Vona soil is a minor component.

Map Unit AcC (1.56%)

Map Unit Name:	Ascalon sandy loam, 3 to 5 percent slopes
Bedrock Depth - Min:	null
Watertable Depth - Annual Min:	null
Drainage Class - Dominant:	Well drained
Hydrologic Group - Dominant:	B - Soils in this group have moderately low runoff potential when thoroughly wet. Water transmission through the soil is unimpeded.

Major components are printed below

Ascalon(90%)

horizon H1(0cm to 20cm)	Sandy loam
horizon H2(20cm to 48cm)	Sandy clay loam
horizon H2(20cm to 48cm)	Sandy loam
horizon H3(48cm to 152cm)	Fine sandy loam

horizon H3(48cm to 152cm)	Loamy fine sand
horizon H3(48cm to 152cm)	Sandy loam

Component Description:

Minor map unit components are excluded from this report.

Map Unit: AcC - Ascalon sandy loam, 3 to 5 percent slopes

Component: Ascalon (80%)
The Ascalon component makes up 80 percent of the map unit. Slopes are 3 to 5 percent. This component is on narrow to broad, flat interfluves, dissected plains. The parent material consists of wind-reworked alluvium and/or calcareous sandy eolian deposits. Depth to a root restrictive layer is greater than 60 inches. The natural drainage class is well drained. Water movement in the most restrictive layer is moderately high. Available water to a depth of 60 inches (or restricted depth) is moderate. Shrink-swell potential is low. This soil is not flooded. It is not ponded. There is no zone of water saturation within a depth of 72 inches. Organic matter content in the surface horizon is about 1 percent. This component is in the R072XY111KS Sandy Plains ecological site. Nonirrigated land capability classification is 4c. Irrigated land capability classification is 3e. This soil does not meet hydric criteria. The calcium carbonate equivalent within 40 inches, typically, does not exceed 8 percent. There are no saline horizons within 30 inches of the soil surface.

Component: Stoneham (10%)
Generated brief soil descriptions are created for major soil components. The Stoneham soil is a minor component.

Component: Vona (8%)
Generated brief soil descriptions are created for major soil components. The Vona soil is a minor component.

Component: Platner (2%)
Generated brief soil descriptions are created for major soil components. The Platner soil is a minor component.

Map Unit CoB (13.46%)

Map Unit Name:	Colby silty clay loam, 1 to 3 percent slopes
Bedrock Depth - Min:	null
Watertable Depth - Annual Min:	null
Drainage Class - Dominant:	Well drained
Hydrologic Group - Dominant:	C - Soils in this group have moderately high runoff potential when thoroughly wet. Water transmission through the soil is somewhat restricted.

Major components are printed below

Colby(90%)

horizon H1(0cm to 30cm)	Silty clay loam
horizon H2(30cm to 109cm)	Silty clay loam
horizon H3(109cm to 152cm)	Clay loam

Component Description:

Minor map unit components are excluded from this report.

Map Unit: CoB - Colby silty clay loam, 1 to 3 percent slopes

Component: Colby (90%)
The Colby component makes up 90 percent of the map unit. Slopes are 1 to 3 percent. This component is on upland slopes. The parent material consists of uniform eolian deposits. Depth to a root restrictive layer is greater than 60 inches. The natural drainage class is well drained. Water movement in the most restrictive layer is moderately high. Available water to a depth of 60 inches (or restricted depth) is high. Shrink-swell potential is low. This soil is not flooded. It is not ponded. There is no zone of water saturation within a depth of 72 inches. Organic matter content in the surface horizon is about 1 percent. This component is in the R067BY002CO Loamy Plains ecological site. Nonirrigated land capability classification is 4e. Irrigated land capability classification is 2e. This soil does not meet hydric criteria. The calcium carbonate equivalent within 40 inches, typically, does not exceed 8 percent.

Component: Weld (5%)
Generated brief soil descriptions are created for major soil components. The Weld soil is a minor component.

Component: Gaynor (5%)

Soil Information

Generated brief soil descriptions are created for major soil components. The Gaynor soil is a minor component.

Map Unit CoC (1.83%)

Map Unit Name:	Colby silty clay loam, 3 to 5 percent slopes
Bedrock Depth - Min:	null
Watertable Depth - Annual Min:	null
Drainage Class - Dominant:	Well drained
Hydrologic Group - Dominant:	C - Soils in this group have moderately high runoff potential when thoroughly wet. Water transmission through the soil is somewhat restricted.

Major components are printed below

Colby(90%)

horizon H1(0cm to 30cm)	Silty clay loam
horizon H2(30cm to 109cm)	Silty clay loam
horizon H3(109cm to 152cm)	Clay loam

Component Description:

Minor map unit components are excluded from this report.

Map Unit: CoC - Colby silty clay loam, 3 to 5 percent slopes

Component: Colby (90%)
The Colby component makes up 90 percent of the map unit. Slopes are 3 to 5 percent. This component is on upland slopes. The parent material consists of uniform eolian deposits. Depth to a root restrictive layer is greater than 60 inches. The natural drainage class is well drained. Water movement in the most restrictive layer is moderately high. Available water to a depth of 60 inches (or restricted depth) is high. Shrink-swell potential is low. This soil is not flooded. It is not ponded. There is no zone of water saturation within a depth of 72 inches. Organic matter content in the surface horizon is about 1 percent. This component is in the R067BY002CO Loamy Plains ecological site. Nonirrigated land capability classification is 4e. Irrigated land capability classification is 4e. This soil does not meet hydric criteria. The calcium carbonate equivalent within 40 inches, typically, does not exceed 8 percent.

Component: Weld (5%)
Generated brief soil descriptions are created for major soil components. The Weld soil is a minor component.

Component: Gaynor (5%)
Generated brief soil descriptions are created for major soil components. The Gaynor soil is a minor component.

Map Unit CoD (5.48%)

Map Unit Name:	Colby silty clay loam, 5 to 9 percent slopes
Bedrock Depth - Min:	null
Watertable Depth - Annual Min:	null
Drainage Class - Dominant:	Well drained
Hydrologic Group - Dominant:	C - Soils in this group have moderately high runoff potential when thoroughly wet. Water transmission through the soil is somewhat restricted.

Major components are printed below

Colby(80%)

horizon H1(0cm to 30cm)	Silty clay loam
horizon H2(30cm to 109cm)	Silty clay loam
horizon H3(109cm to 152cm)	Clay loam

Component Description:

Minor map unit components are excluded from this report.

Map Unit: CoD - Colby silty clay loam, 5 to 9 percent slopes

Soil Information

Component: Colby (80%)
The Colby component makes up 80 percent of the map unit. Slopes are 5 to 9 percent. This component is on upland slopes. The parent material consists of uniform eolian deposits. Depth to a root restrictive layer is greater than 60 inches. The natural drainage class is well drained. Water movement in the most restrictive layer is moderately high. Available water to a depth of 60 inches (or restricted depth) is high. Shrink-swell potential is low. This soil is not flooded. It is not ponded. There is no zone of water saturation within a depth of 72 inches. Organic matter content in the surface horizon is about 1 percent. This component is in the R067BY008CO Loamy Slopes ecological site. Nonirrigated land capability classification is 6e. This soil does not meet hydric criteria. The calcium carbonate equivalent within 40 inches, typically, does not exceed 8 percent.

Component: Gaynor (8%)
Generated brief soil descriptions are created for major soil components. The Gaynor soil is a minor component.

Component: Renohill (7%)
Generated brief soil descriptions are created for major soil components. The Renohill soil is a minor component.

Component: Wiley (5%)
Generated brief soil descriptions are created for major soil components. The Wiley soil is a minor component.

Map Unit CsB (12.55%)

Map Unit Name:	Colby silty clay loam, wet, 0 to 3 percent slopes
Bedrock Depth - Min:	null
Watertable Depth - Annual Min:	92cm
Drainage Class - Dominant:	Moderately well drained
Hydrologic Group - Dominant:	C - Soils in this group have moderately high runoff potential when thoroughly wet. Water transmission through the soil is somewhat restricted.

Major components are printed below

Colby(85%)

horizon H1(0cm to 30cm)	Silty clay loam
horizon H2(30cm to 102cm)	Clay loam
horizon H2(30cm to 102cm)	Silt loam
horizon H2(30cm to 102cm)	Silty clay loam
horizon H3(102cm to 152cm)	Stratified clay loam to silty clay

Component Description:

Minor map unit components are excluded from this report.

Map Unit: CsB - Colby silty clay loam, wet, 0 to 3 percent slopes

Component: Colby (85%)
The Colby component makes up 85 percent of the map unit. Slopes are 0 to 3 percent. This component is on upland valleys. The parent material consists of uniform eolian deposits. Depth to a root restrictive layer is greater than 60 inches. The natural drainage class is moderately well drained. Water movement in the most restrictive layer is moderately low. Available water to a depth of 60 inches (or restricted depth) is high. Shrink-swell potential is low. This soil is not flooded. It is not ponded. A seasonal zone of water saturation is at 36 inches during May, June, July, August, September, October, November. Organic matter content in the surface horizon is about 1 percent. This component is in the R067BY002CO Loamy Plains ecological site. Nonirrigated land capability classification is 3c. Irrigated land capability classification is 2w. This soil does not meet hydric criteria. The calcium carbonate equivalent within 40 inches, typically, does not exceed 8 percent.

Component: Weld (10%)
Generated brief soil descriptions are created for major soil components. The Weld soil is a minor component.

Component: Aquic Haplustolls (4%)
Generated brief soil descriptions are created for major soil components. The Aquic Haplustolls soil is a minor component.

Component: Gaynor (1%)
Generated brief soil descriptions are created for major soil components. The Gaynor soil is a minor component.

Soil Information

Map Unit GaD (2.93%)

Map Unit Name:	Gaynor silty clay loam, 3 to 9 percent slopes
Bedrock Depth - Min:	76cm
Watertable Depth - Annual Min:	null
Drainage Class - Dominant:	Well drained
Hydrologic Group - Dominant:	C - Soils in this group have moderately high runoff potential when thoroughly wet. Water transmission through the soil is somewhat restricted.

Major components are printed below

Gaynor(80%)

horizon H1(0cm to 15cm)	Silty clay loam
horizon H2(15cm to 76cm)	Silty clay loam
horizon H3(76cm to 86cm)	Weathered bedrock

Component Description:

Minor map unit components are excluded from this report.

Map Unit: GaD - Gaynor silty clay loam, 3 to 9 percent slopes

Component: Gaynor (80%)
The Gaynor component makes up 80 percent of the map unit. Slopes are 3 to 9 percent. This component is on uplands. The parent material consists of loamy alluvium and/or eolian deposits. Depth to a root restrictive layer, bedrock, paralithic, is 20 to 40 inches. The natural drainage class is well drained. Water movement in the most restrictive layer is moderately low. Available water to a depth of 60 inches (or restricted depth) is low. Shrink-swell potential is low. This soil is not flooded. It is not ponded. There is no zone of water saturation within a depth of 72 inches. Organic matter content in the surface horizon is about 1 percent. This component is in the R067XB045CO Shaly Plains ecological site. Nonirrigated land capability classification is 4e. Irrigated land capability classification is 4e. This soil does not meet hydric criteria. The calcium carbonate equivalent within 40 inches, typically, does not exceed 8 percent. There are no saline horizons within 30 inches of the soil surface.

Component: Renohill (8%)
Generated brief soil descriptions are created for major soil components. The Renohill soil is a minor component.

Component: Colby (5%)
Generated brief soil descriptions are created for major soil components. The Colby soil is a minor component.

Component: Samsil (5%)
Generated brief soil descriptions are created for major soil components. The Samsil soil is a minor component.

Component: Cascao (2%)
Generated brief soil descriptions are created for major soil components. The Cascao soil is a minor component.

Map Unit NnA (6.48%)

Map Unit Name:	Nunn sandy clay loam, 0 to 1 percent slopes
Bedrock Depth - Min:	null
Watertable Depth - Annual Min:	null
Drainage Class - Dominant:	Well drained
Hydrologic Group - Dominant:	C - Soils in this group have moderately high runoff potential when thoroughly wet. Water transmission through the soil is somewhat restricted.

Major components are printed below

Nunn(90%)

horizon H1(0cm to 25cm)	Sandy clay loam
horizon H2(25cm to 41cm)	Clay
horizon H3(41cm to 152cm)	Clay loam

Component Description:

Minor map unit components are excluded from this report.

Soil Information

Map Unit: NnA - Nunn sandy clay loam, 0 to 1 percent slopes

Component: Nunn (90%)
The Nunn component makes up 90 percent of the map unit. Slopes are 0 to 1 percent. This component is on terraces, valley sides. The parent material consists of loamy alluvium. Depth to a root restrictive layer is greater than 60 inches. The natural drainage class is well drained. Water movement in the most restrictive layer is moderately low. Available water to a depth of 60 inches (or restricted depth) is high. Shrink-swell potential is moderate. This soil is not flooded. It is not ponded. There is no zone of water saturation within a depth of 72 inches. Organic matter content in the surface horizon is about 3 percent. This component is in the R067XB042CO Clayey ecological site. Nonirrigated land capability classification is 3s. Irrigated land capability classification is 2s. This soil does not meet hydric criteria. The calcium carbonate equivalent within 40 inches, typically, does not exceed 10 percent.

Component: Ascalon (5%)
Generated brief soil descriptions are created for major soil components. The Ascalon soil is a minor component.

Component: Kim (5%)
Generated brief soil descriptions are created for major soil components. The Kim soil is a minor component.

Map Unit NnB (31.07%)

Map Unit Name:	Nunn sandy clay loam, 1 to 3 percent slopes
Bedrock Depth - Min:	null
Watertable Depth - Annual Min:	null
Drainage Class - Dominant:	Well drained
Hydrologic Group - Dominant:	C - Soils in this group have moderately high runoff potential when thoroughly wet. Water transmission through the soil is somewhat restricted.

Major components are printed below

Nunn(85%)

horizon H1(0cm to 25cm)	Sandy clay loam
horizon H2(25cm to 36cm)	Clay
horizon H3(36cm to 152cm)	Clay loam

Component Description:

Minor map unit components are excluded from this report.

Map Unit: NnB - Nunn sandy clay loam, 1 to 3 percent slopes

Component: Nunn (85%)
The Nunn component makes up 85 percent of the map unit. Slopes are 1 to 3 percent. This component is on terraces, valley sides. The parent material consists of loamy alluvium. Depth to a root restrictive layer is greater than 60 inches. The natural drainage class is well drained. Water movement in the most restrictive layer is moderately low. Available water to a depth of 60 inches (or restricted depth) is high. Shrink-swell potential is moderate. This soil is not flooded. It is not ponded. There is no zone of water saturation within a depth of 72 inches. Organic matter content in the surface horizon is about 3 percent. This component is in the R067XB042CO Clayey ecological site. Nonirrigated land capability classification is 3e. Irrigated land capability classification is 2e. This soil does not meet hydric criteria. The calcium carbonate equivalent within 40 inches, typically, does not exceed 10 percent.

Component: Weld (10%)
Generated brief soil descriptions are created for major soil components. The Weld soil is a minor component.

Component: Ascalon (5%)
Generated brief soil descriptions are created for major soil components. The Ascalon soil is a minor component.

Map Unit NuB (2.22%)

Map Unit Name:	Nunn clay loam, 1 to 3 percent slopes
Bedrock Depth - Min:	null
Watertable Depth - Annual Min:	null
Drainage Class - Dominant:	Well drained

Soil Information

Hydrologic Group - Dominant:	C - Soils in this group have moderately high runoff potential when thoroughly wet. Water transmission through the soil is somewhat restricted.

Major components are printed below

Nunn(80%)

horizon H1(0cm to 25cm)	Clay loam
horizon H2(25cm to 46cm)	Clay
horizon H3(46cm to 76cm)	Clay
horizon H4(76cm to 152cm)	Clay loam

Component Description:

Minor map unit components are excluded from this report.

Map Unit: NuB - Nunn clay loam, 1 to 3 percent slopes

Component: Nunn (85%)
The Nunn component makes up 85 percent of the map unit. Slopes are 1 to 3 percent. This component is on terraces on river valleys. The parent material consists of pleistocene aged alluvium and/or eolian deposits. Depth to a root restrictive layer is greater than 60 inches. The natural drainage class is well drained. Water movement in the most restrictive layer is moderately low. Available water to a depth of 60 inches (or restricted depth) is high. Shrink-swell potential is moderate. This soil is not flooded. It is not ponded. There is no zone of water saturation within a depth of 72 inches. Organic matter content in the surface horizon is about 2 percent. This component is in the R067BY042CO Clayey Plains ecological site. Nonirrigated land capability classification is 3e. Irrigated land capability classification is 2e. This soil does not meet hydric criteria. The calcium carbonate equivalent within 40 inches, typically, does not exceed 4 percent. There are no saline horizons within 30 inches of the soil surface. The soil has a maximum sodium adsorption ratio of 0 within 30 inches of the soil surface.

Component: Heldt (10%)
Generated brief soil descriptions are created for major soil components. The Heldt soil is a minor component.

Component: Satanta (5%)
Generated brief soil descriptions are created for major soil components. The Satanta soil is a minor component.

Map Unit Nv (5.11%)

Map Unit Name:	Nunn-Kim complex
Bedrock Depth - Min:	null
Watertable Depth - Annual Min:	null
Drainage Class - Dominant:	Well drained
Hydrologic Group - Dominant:	C - Soils in this group have moderately high runoff potential when thoroughly wet. Water transmission through the soil is somewhat restricted.

Major components are printed below

Nunn(50%)

horizon H1(0cm to 25cm)	Clay loam
horizon H2(25cm to 46cm)	Clay
horizon H3(46cm to 76cm)	Clay
horizon H4(76cm to 152cm)	Clay loam

Kim(35%)

horizon H1(0cm to 28cm)	Clay loam
horizon H2(28cm to 152cm)	Clay loam
horizon H2(28cm to 152cm)	Loam
horizon H2(28cm to 152cm)	Sandy clay loam

Component Description:

Minor map unit components are excluded from this report.

Map Unit: Nv - Nunn-Kim complex

Component: Nunn (50%)

Soil Information

The Nunn component makes up 50 percent of the map unit. Slopes are 0 to 3 percent. This component is on terraces. The parent material consists of loamy alluvium. Depth to a root restrictive layer is greater than 60 inches. The natural drainage class is well drained. Water movement in the most restrictive layer is moderately low. Available water to a depth of 60 inches (or restricted depth) is high. Shrink-swell potential is moderate. This soil is not flooded. It is not ponded. There is no zone of water saturation within a depth of 72 inches. Organic matter content in the surface horizon is about 3 percent. This component is in the R067XB042CO Clayey ecological site. Nonirrigated land capability classification is 3e. Irrigated land capability classification is 2e. This soil does not meet hydric criteria. The calcium carbonate equivalent within 40 inches, typically, does not exceed 10 percent.

Component: Kim (35%)
The Kim component makes up 35 percent of the map unit. Slopes are 0 to 3 percent. The parent material consists of loamy alluvium. Depth to a root restrictive layer is greater than 60 inches. The natural drainage class is well drained. Water movement in the most restrictive layer is moderately high. Available water to a depth of 60 inches (or restricted depth) is high. Shrink-swell potential is low. This soil is not flooded. It is not ponded. There is no zone of water saturation within a depth of 72 inches. Organic matter content in the surface horizon is about 1 percent. This component is in the R067BY002CO Loamy Plains ecological site. Nonirrigated land capability classification is 4e. Irrigated land capability classification is 3e. This soil does not meet hydric criteria. The calcium carbonate equivalent within 40 inches, typically, does not exceed 10 percent. There are no saline horizons within 30 inches of the soil surface.

Component: Limon (9%)
Generated brief soil descriptions are created for major soil components. The Limon soil is a minor component.

Component: Ulm (5%)
Generated brief soil descriptions are created for major soil components. The Ulm soil is a minor component.

Component: Mollic Haplaquepts (1%)
Generated brief soil descriptions are created for major soil components. The Mollic Haplaquepts soil is a minor component.

Map Unit W (1.71%)

Map Unit Name:	Water

No more attributes available for this map unit

Component Description:

Minor map unit components are excluded from this report.

Map Unit: W - Water

Component: Water (95%)
Generated brief soil descriptions are created for major soil components. The Water is a miscellaneous area.

Component: Aquolls (5%)
Generated brief soil descriptions are created for major soil components. The Aquolls soil is a minor component.

Map Unit WlA (2.1%)

Map Unit Name:	Weld loam, 0 to 1 percent slopes
Bedrock Depth - Min:	null
Watertable Depth - Annual Min:	null
Drainage Class - Dominant:	Well drained
Hydrologic Group - Dominant:	C - Soils in this group have moderately high runoff potential when thoroughly wet. Water transmission through the soil is somewhat restricted.

Major components are printed below

Weld(85%)

horizon H1(0cm to 15cm)	Loam
horizon H2(15cm to 46cm)	Clay
horizon H2(15cm to 46cm)	Silty clay
horizon H2(15cm to 46cm)	Silty clay loam
horizon H3(46cm to 61cm)	Loam
horizon H3(46cm to 61cm)	Silt loam

horizon H3(46cm to 61cm)	Silty clay loam
horizon H4(61cm to 152cm)	Loam
horizon H4(61cm to 152cm)	Sandy loam
horizon H4(61cm to 152cm)	Silt loam

Component Description:

Minor map unit components are excluded from this report.

Map Unit: WlA - Weld loam, 0 to 1 percent slopes

Component: Weld (80%)
The Weld component makes up 80 percent of the map unit. Slopes are 0 to 1 percent. This component is on broad to narrow, flat interfluves on dissected plains. The parent material consists of calcareous loess. Depth to a root restrictive layer is greater than 60 inches. The natural drainage class is well drained. Water movement in the most restrictive layer is moderately low. Available water to a depth of 60 inches (or restricted depth) is high. Shrink-swell potential is low. This soil is not flooded. It is not ponded. There is no zone of water saturation within a depth of 72 inches. Organic matter content in the surface horizon is about 2 percent. This component is in the R067BY002CO Loamy Plains ecological site. Nonirrigated land capability classification is 3c. Irrigated land capability classification is 2c. This soil does not meet hydric criteria. The calcium carbonate equivalent within 40 inches, typically, does not exceed 10 percent. There are no saline horizons within 30 inches of the soil surface.

Component: Colby (8%)
Generated brief soil descriptions are created for major soil components. The Colby soil is a minor component.

Component: Wiley (7%)
Generated brief soil descriptions are created for major soil components. The Wiley soil is a minor component.

Component: Keith (3%)
Generated brief soil descriptions are created for major soil components. The Keith soil is a minor component.

Component: Baca (2%)
Generated brief soil descriptions are created for major soil components. The Baca soil is a minor component.

Map Unit WlB (13.01%)

Map Unit Name:	Weld loam, 1 to 3 percent slopes
Bedrock Depth - Min:	null
Watertable Depth - Annual Min:	null
Drainage Class - Dominant:	Well drained
Hydrologic Group - Dominant:	C - Soils in this group have moderately high runoff potential when thoroughly wet. Water transmission through the soil is somewhat restricted.

Major components are printed below

Weld(85%)

horizon H1(0cm to 15cm)	Loam
horizon H2(15cm to 46cm)	Clay
horizon H2(15cm to 46cm)	Silty clay
horizon H2(15cm to 46cm)	Silty clay loam
horizon H3(46cm to 61cm)	Loam
horizon H3(46cm to 61cm)	Silt loam
horizon H3(46cm to 61cm)	Silty clay loam
horizon H4(61cm to 152cm)	Loam
horizon H4(61cm to 152cm)	Sandy loam
horizon H4(61cm to 152cm)	Silt loam

Component Description:

Minor map unit components are excluded from this report.

Map Unit: WlB - Weld loam, 1 to 3 percent slopes

Soil Information

Component: Weld (80%)
The Weld component makes up 80 percent of the map unit. Slopes are 1 to 3 percent. This component is on broad, flat interfluves on dissected plains. The parent material consists of calcareous loess. Depth to a root restrictive layer is greater than 60 inches. The natural drainage class is well drained. Water movement in the most restrictive layer is moderately low. Available water to a depth of 60 inches (or restricted depth) is high. Shrink-swell potential is low. This soil is not flooded. It is not ponded. There is no zone of water saturation within a depth of 72 inches. Organic matter content in the surface horizon is about 2 percent. This component is in the R067BY002CO Loamy Plains ecological site. Nonirrigated land capability classification is 3c. Irrigated land capability classification is 2e. This soil does not meet hydric criteria. The calcium carbonate equivalent within 40 inches, typically, does not exceed 10 percent. There are no saline horizons within 30 inches of the soil surface.

Component: Adena (8%)
Generated brief soil descriptions are created for major soil components. The Adena soil is a minor component.

Component: Colby (7%)
Generated brief soil descriptions are created for major soil components. The Colby soil is a minor component.

Component: Keith (3%)
Generated brief soil descriptions are created for major soil components. The Keith soil is a minor component.

Component: Baca (2%)
Generated brief soil descriptions are created for major soil components. The Baca soil is a minor component.

Wells and Additional Sources

Wells & Additional Sources

N

0 0.15 0.3 0.6 Miles

- Sites with Higher Elevation
- Sites with Same Elevation
- Sites with Lower Elevation
- Sites with Unknown Elevation
- OGW Sites with Higher Elevation
- OGW Sites with Same Elevation
- OGW Sites with Lower Elevation
- OGW Sites with Unknown Elevation

ERIS

Wells and Additional Sources Summary

Federal Sources

Public Water Systems Violations and Enforcement Data

Map Key	ID	Distance (ft)	Direction
	No records found		

Safe Drinking Water Information System (SDWIS)

Map Key	ID	Distance (ft)	Direction
	No records found		

USGS National Water Information System

Map Key	Monitoring Loc Identifier	Distance (ft)	Direction
20	USGS-400608105074300	4354.38	SSW
20	USGS-400608105074301	4354.38	SSW
22	USGS-400715105081700	4555.79	NW
22	USGS-400715105081701	4555.79	NW
28	USGS-400734105074800	4738.60	NNW
28	USGS-400734105074801	4738.60	NNW

State Sources

Oil and Gas Pit Locations

Map Key	Facil ID	Distance (ft)	Direction
10	114854	3020.67	NNW
18	114855	4196.53	N
32	114848	4778.06	NNW

Oil and Gas Wells

Map Key	Facility ID	Distance (ft)	Direction
6	206732	2385.39	NNW
12	206721	3215.43	NE
14	206475	3746.43	S
15	206718	3805.32	NW
17	206716	4168.28	N
25	207030	4612.01	NW
26	206662	4724.67	SE
35	206918	5179.47	SSW

Public Water Wells

Map Key	Well Name	Distance (ft)	Direction
20	SB00206928CCD	4354.38	SSW
22	SB00206920DBC	4555.79	NW
28	SB00206921BCB	4738.60	NNW

Wells and Additional Sources Summary

Water Wells Permit Database

Map Key	ID Key	Distance (ft)	Direction
1	9010126 297437	381.31	NE
1	0901991 82636	381.31	NE
2	9008511 134788	1028.57	WNW
3	0907295 96400	1180.09	SSE
4	3609896 240598	2024.87	WNW
5	9008522 10132	2320.19	W
7	9012409 238968	2397.78	SW
8	0300781 236051	2916.11	WNW
8	0097233 302473	2916.11	WNW
9	0087976 1592	2972.78	WSW
11	0007699 56092	3033.28	W
13	3674813 255579	3703.00	SSW
16	0025004B 296255	3829.40	SE
19	9010792 20855	4285.84	NNW
19	0012574 263170	4285.84	NNW
19	0902445 312763	4285.84	NNW
21	0033518 276307	4442.23	NW
23	0025312 307484	4566.23	ENE
24	9008307 133366	4594.69	NW
27	0467038 323304	4735.03	NW
29	0043445 72118	4752.13	SE
30	9009768 291166	4753.65	NNW
30	9011607 237927	4753.65	NNW
30	9010251 381803	4753.65	NNW
31	9011005 194586	4772.35	NNW
33	9008532 90761	4861.90	NNW
34	0490466 253342	4891.24	SSW

USGS National Water Information System

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
20	SSW	0.82	4,354.38	5,112.91	FED USGS

Organiz Identifier:	USGS-CO	Formation Type:	Pierre Shale
Organiz Name:	USGS Colorado Water Science Center	Aquifer Name:	
Well Depth:		Aquifer Type:	
Well Depth Unit:		Country Code:	US
Well Hole Depth:		Provider Name:	NWIS
W Hole Depth Unit:		County:	BOULDER
Construction Date:		Latitude:	40.1022071
Source Map Scale:		Longitude:	-105.129151
Monitoring Loc Name:	SB00206928CCDC SITE C97		
Monitoring Loc Identifier:	USGS-400608105074300		
Monitoring Loc Type:	Well		
Monitoring Loc Desc:			
HUC Eight Digit Code:	10190005		
Drainage Area:			
Drainage Area Unit:			
Contrib Drainage Area:			
Contrib Drainage Area Unit:			
Horizontal Accuracy:	1		
Horizontal Accuracy Unit:	minutes		
Horizontal Collection Mthd:	Interpolated from MAP.		
Horiz Coord Refer System:	NAD83		
Vertical Measure:			
Vertical Measure Unit:			
Vertical Accuracy:			
Vertical Accuracy Unit:			
Vertical Collection Mthd:			
Vert Coord Refer System:			

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
20	SSW	0.82	4,354.38	5,112.91	FED USGS

Organiz Identifier:	USGS-CO	Formation Type:	Pierre Shale
Organiz Name:	USGS Colorado Water Science Center	Aquifer Name:	
Well Depth:		Aquifer Type:	
Well Depth Unit:		Country Code:	US
Well Hole Depth:		Provider Name:	NWIS
W Hole Depth Unit:		County:	BOULDER

Construction Date:		Latitude:	40.1022071
Source Map Scale:		Longitude:	-105.129151
Monitoring Loc Name:	SB00206928CCD		
Monitoring Loc Identifier:	USGS-400608105074301		
Monitoring Loc Type:	Well		
Monitoring Loc Desc:			
HUC Eight Digit Code:	10190005		
Drainage Area:			
Drainage Area Unit:			
Contrib Drainage Area:			
Contrib Drainage Area Unit:			
Horizontal Accuracy:	5		
Horizontal Accuracy Unit:	seconds		
Horizontal Collection Mthd:	Interpolated from MAP.		
Horiz Coord Refer System:	NAD83		
Vertical Measure:	5265.00		
Vertical Measure Unit:	feet		
Vertical Accuracy:	50		
Vertical Accuracy Unit:	feet		
Vertical Collection Mthd:	Interpolated from topographic map.		
Vert Coord Refer System:	NGVD29		

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
22	NW	0.86	4,555.79	5,032.50	FED USGS

Organiz Identifier:	USGS-CO	Formation Type:	Alluvium, Flood Plain
Organiz Name:	USGS Colorado Water Science Center	Aquifer Name:	
Well Depth:		Aquifer Type:	
Well Depth Unit:		Country Code:	US
Well Hole Depth:		Provider Name:	NWIS
W Hole Depth Unit:		County:	BOULDER
Construction Date:		Latitude:	40.1208183
Source Map Scale:		Longitude:	-105.1385958
Monitoring Loc Name:	SB00206920DBCD SITE C74		
Monitoring Loc Identifier:	USGS-400715105081700		
Monitoring Loc Type:	Well		
Monitoring Loc Desc:			
HUC Eight Digit Code:	10190005		
Drainage Area:			
Drainage Area Unit:			
Contrib Drainage Area:			
Contrib Drainage Area Unit:			
Horizontal Accuracy:	1		
Horizontal Accuracy Unit:	minutes		

Horizontal Collection Mthd:	Interpolated from MAP.
Horiz Coord Refer System:	NAD83
Vertical Measure:	
Vertical Measure Unit:	
Vertical Accuracy:	
Vertical Accuracy Unit:	
Vertical Collection Mthd:	
Vert Coord Refer System:	

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
22	NW	0.86	4,555.79	5,032.50	FED USGS

Organiz Identifier:	USGS-CO	Formation Type:	Alluvium, Flood Plain
Organiz Name:	USGS Colorado Water Science Center	Aquifer Name:	
Well Depth:	39	Aquifer Type:	
Well Depth Unit:	ft	Country Code:	US
Well Hole Depth:		Provider Name:	NWIS
W Hole Depth Unit:		County:	BOULDER
Construction Date:	19540101	Latitude:	40.1208183
Source Map Scale:		Longitude:	-105.1385958
Monitoring Loc Name:	SB00206920DBC		
Monitoring Loc Identifier:	USGS-400715105081701		
Monitoring Loc Type:	Well		
Monitoring Loc Desc:			
HUC Eight Digit Code:	10190005		
Drainage Area:			
Drainage Area Unit:			
Contrib Drainage Area:			
Contrib Drainage Area Unit:			
Horizontal Accuracy:	5		
Horizontal Accuracy Unit:	seconds		
Horizontal Collection Mthd:	Interpolated from MAP.		
Horiz Coord Refer System:	NAD83		
Vertical Measure:	5033.00		
Vertical Measure Unit:	feet		
Vertical Accuracy:	50		
Vertical Accuracy Unit:	feet		
Vertical Collection Mthd:	Interpolated from topographic map.		
Vert Coord Refer System:	NGVD29		

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
28	NNW	0.90	4,738.60	5,020.07	FED USGS

Organiz Identifier:	USGS-CO	Formation Type:	Alluvium, Flood Plain
Organiz Name:	USGS Colorado Water Science Center	Aquifer Name:	
Well Depth:		Aquifer Type:	
Well Depth Unit:		Country Code:	US
Well Hole Depth:		Provider Name:	NWIS
W Hole Depth Unit:		County:	BOULDER
Construction Date:		Latitude:	40.126096
Source Map Scale:		Longitude:	-105.1305399
Monitoring Loc Name:	SB00206921BCBC SITE C47		
Monitoring Loc Identifier:	USGS-400734105074800		
Monitoring Loc Type:	Well		
Monitoring Loc Desc:			
HUC Eight Digit Code:	10190005		
Drainage Area:			
Drainage Area Unit:			
Contrib Drainage Area:			
Contrib Drainage Area Unit:			
Horizontal Accuracy:	1		
Horizontal Accuracy Unit:	minutes		
Horizontal Collection Mthd:	Interpolated from MAP.		
Horiz Coord Refer System:	NAD83		
Vertical Measure:			
Vertical Measure Unit:			
Vertical Accuracy:			
Vertical Accuracy Unit:			
Vertical Collection Mthd:			
Vert Coord Refer System:			

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
28	NNW	0.90	4,738.60	5,020.07	FED USGS

Organiz Identifier:	USGS-CO	Formation Type:	Alluvium, Flood Plain
Organiz Name:	USGS Colorado Water Science Center	Aquifer Name:	
Well Depth:	43	Aquifer Type:	
Well Depth Unit:	ft	Country Code:	US
Well Hole Depth:		Provider Name:	NWIS
W Hole Depth Unit:		County:	BOULDER
Construction Date:		Latitude:	40.126096
Source Map Scale:		Longitude:	-105.1305399
Monitoring Loc Name:	SB00206921BCB		
Monitoring Loc Identifier:	USGS-400734105074801		
Monitoring Loc Type:	Well		
Monitoring Loc Desc:			
HUC Eight Digit Code:	10190005		

Drainage Area:	
Drainage Area Unit:	
Contrib Drainage Area:	
Contrib Drainage Area Unit:	
Horizontal Accuracy:	5
Horizontal Accuracy Unit:	seconds
Horizontal Collection Mthd:	Interpolated from MAP.
Horiz Coord Refer System:	NAD83
Vertical Measure:	5020.00
Vertical Measure Unit:	feet
Vertical Accuracy:	50
Vertical Accuracy Unit:	feet
Vertical Collection Mthd:	Interpolated from topographic map.
Vert Coord Refer System:	NGVD29

Oil and Gas Pit Locations

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
10	NNW	0.57	3,020.67	4,999.09	PITS

Facil ID:	114854	Field Code:	36580
Link FLD:		Dist N S:	
Pit No:		Dir N S:	
Symbol:		Dist E W:	
SDF Key:		Dir E W:	
Facil No:		Qtr Qtr:	NWSW
Facil Name:	KATHEY 21-13	Field Name:	HOLLAND
Facil Type:	PIT	API Seq:	
Fac Status:		API County:	
Operat No:	72080	Section:	21
Loc ID:		Township:	2N
Pit ID:	114854	Range:	69W
Company Name:		Meridian:	6
Address:		Ground Elev:	
City:		Latitude:	40.121616
State:		Longitude:	-105.12863
County:		UTM X:	489040
ZIP:		UTM Y:	4441263
Operator:	PRIMA EXPLORATION INC		
Well No and Name:			

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
18	N	0.79	4,196.53	4,991.80	PITS

Facil ID:	114855	Field Code:	36580

Link FLD:		Dist N S:	
Pit No:		Dir N S:	
Symbol:		Dist E W:	
SDF Key:		Dir E W:	
Facil No:		Qtr Qtr:	SENW
Facil Name:	LABER 2-21	Field Name:	HOLLAND
Facil Type:	PIT	API Seq:	
Fac Status:		API County:	
Operat No:	31290	Section:	21
Loc ID:	379790	Township:	2N
Pit ID:	114855	Range:	69W
Company Name:		Meridian:	6
Address:		Ground Elev:	
City:		Latitude:	40.125246
State:		Longitude:	-105.12387
County:		UTM X:	489446
ZIP:		UTM Y:	4441666
Operator:	FRONTIER O & G CO OF TEXAS INC		
Well No and Name:			

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
32	NNW	0.90	4,778.06	5,021.01	PITS

Facil ID:	114848	Field Code:	36580
Link FLD:		Dist N S:	
Pit No:		Dir N S:	
Symbol:		Dist E W:	
SDF Key:		Dir E W:	
Facil No:		Qtr Qtr:	SENE
Facil Name:	LABER 20-42	Field Name:	HOLLAND
Facil Type:	PIT	API Seq:	
Fac Status:		API County:	
Operat No:	72080	Section:	20
Loc ID:		Township:	2N
Pit ID:	114848	Range:	69W
Company Name:		Meridian:	6
Address:		Ground Elev:	
City:		Latitude:	40.125266
State:		Longitude:	-105.133371
County:		UTM X:	488636
ZIP:		UTM Y:	4441669
Operator:	PRIMA EXPLORATION INC		
Well No and Name:			

Oil and Gas Wells

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
6	NNW	0.45	2,385.39	5,004.40	OGW

API:	01306227	Loc fr N/S Sec Ln:	1380
API Label:	05-013-06227	Sec Line Dir N/S:	S
API Seq Code:	06227	Loc fr E/W Sec Ln:	860
Well No:	21-13	Sec Line Dir E/W:	W
Well Name:	KATHEY	Qtr Qtr:	NWSW
Facility ID:	206732	Section:	21
Facility Type:	WELL	Township:	2N
Facility Status:	PA	Range:	69W
Well Title:	21-13 KATHEY	Meridian:	6
Operator:	PRIMA EXPLORATION INC	Latitude:	40.119956
Operator No:	72080	Longitude:	-105.12793
Field Code:	36580	Grnd Lvl Elev:	4998
Field Name:	HOLLAND	UTM X:	489099
Spud Date:		UTM Y:	4441079
Citing Type:		API County:	013
Location Name:	KATHEY-62N69W 21NWSW	API County Name:	BOULDER
Location Qualifer:	Planned Footage	Location ID:	379805
Max Meas Dpt:	7517	Max Vt Dpt:	7474
Stat Date:	10/1/1989	Source Stat:	
Name:		Source Cnty:	
Symbol:		SDF Key:	
Facility Status Desc:	PLUGGED AND ABANDONED WELL.		

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
12	NE	0.61	3,215.43	5,010.35	OGW

API:	01306216	Loc fr N/S Sec Ln:	1580
API Label:	05-013-06216	Sec Line Dir N/S:	S
API Seq Code:	06216	Loc fr E/W Sec Ln:	1580
Well No:	33-21	Sec Line Dir E/W:	E
Well Name:	LUDLOW	Qtr Qtr:	NWSE
Facility ID:	206721	Section:	21
Facility Type:	WELL	Township:	2N
Facility Status:	PA	Range:	69W
Well Title:	33-21 LUDLOW	Meridian:	6
Operator:	PRIMA EXPLORATION INC	Latitude:	40.120576
Operator No:	72080	Longitude:	-105.11783
Field Code:	36580	Grnd Lvl Elev:	5008
Field Name:	HOLLAND	UTM X:	489960
Spud Date:		UTM Y:	4441147
Citing Type:		API County:	013
Location Name:	LUDLOW-62N69W 21NWSE	API County Name:	BOULDER
Location Qualifer:	Planned Footage	Location ID:	379795
Max Meas Dpt:	7539	Max Vt Dpt:	7539

Stat Date:	4/12/1990	Source Stat:	
Name:		Source Cnty:	
Symbol:		SDF Key:	
Facility Status Desc:	PLUGGED AND ABANDONED WELL.		

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
14	S	0.71	3,746.43	5,087.22	OGW

API:	01305061	Loc fr N/S Sec Ln:	0
API Label:	05-013-05061	Sec Line Dir N/S:	
API Seq Code:	05061	Loc fr E/W Sec Ln:	0
Well No:	1	Sec Line Dir E/W:	
Well Name:	GILLESPIE	Qtr Qtr:	SESW
Facility ID:	206475	Section:	28
Facility Type:	WELL	Township:	2N
Facility Status:	PA	Range:	69W
Well Title:	1 GILLESPIE	Meridian:	6
Operator:	UNKNOWN	Latitude:	40.103496
Operator No:	1	Longitude:	-105.1243
Field Code:	99999	Grnd Lvl Elev:	5067
Field Name:	WILDCAT	UTM X:	489406
Spud Date:		UTM Y:	4439252
Citing Type:		API County:	013
Location Name:	GILLESPIE-62N69W 28SESW	API County Name:	BOULDER
Location Qualifer:	Planned Footage	Location ID:	379653
Max Meas Dpt:	4435	Max Vt Dpt:	0
Stat Date:	1/1/1999	Source Stat:	
Name:		Source Cnty:	
Symbol:		SDF Key:	
Facility Status Desc:	PLUGGED AND ABANDONED WELL.		

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
15	NW	0.72	3,805.32	5,014.54	OGW

API:	01306213	Loc fr N/S Sec Ln:	3098
API Label:	05-013-06213	Sec Line Dir N/S:	N
API Seq Code:	06213	Loc fr E/W Sec Ln:	600
Well No:	20-42	Sec Line Dir E/W:	E
Well Name:	LABER	Qtr Qtr:	SENE
Facility ID:	206718	Section:	20
Facility Type:	WELL	Township:	2N
Facility Status:	PA	Range:	69W
Well Title:	20-42 LABER	Meridian:	6
Operator:	PRIMA EXPLORATION INC	Latitude:	40.122216
Operator No:	72080	Longitude:	-105.133151
Field Code:	36580	Grnd Lvl Elev:	5011

Field Name:	HOLLAND	UTM X:	488655
Spud Date:		UTM Y:	4441331
Citing Type:		API County:	013
Location Name:	LABER-62N69W 20SENE	API County Name:	BOULDER
Location Qualifer:	Planned Footage	Location ID:	379792
Max Meas Dpt:	7525	Max Vt Dpt:	7363
Stat Date:	10/1/1989	Source Stat:	
Name:		Source Cnty:	
Symbol:		SDF Key:	
Facility Status Desc:	PLUGGED AND ABANDONED WELL.		

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
17	N	0.79	4,168.28	4,991.55	OGW

API:	01306211	Loc fr N/S Sec Ln:	2023
API Label:	05-013-06211	Sec Line Dir N/S:	N
API Seq Code:	06211	Loc fr E/W Sec Ln:	2073
Well No:	2	Sec Line Dir E/W:	W
Well Name:	LABER	Qtr Qtr:	SENW
Facility ID:	206716	Section:	21
Facility Type:	WELL	Township:	2N
Facility Status:	PA	Range:	69W
Well Title:	2 LABER	Meridian:	6
Operator:	FRONTIER O & G CO OF TEXAS INC	Latitude:	40.125146
Operator No:	31290	Longitude:	-105.12357
Field Code:	36580	Grnd Lvl Elev:	4986
Field Name:	HOLLAND	UTM X:	489471
Spud Date:		UTM Y:	4441655
Citing Type:		API County:	013
Location Name:	LABER-62N69W 21SENW	API County Name:	BOULDER
Location Qualifer:	Planned Footage	Location ID:	379790
Max Meas Dpt:	7400	Max Vt Dpt:	7400
Stat Date:	1/3/1992	Source Stat:	
Name:		Source Cnty:	
Symbol:		SDF Key:	
Facility Status Desc:	PLUGGED AND ABANDONED WELL.		

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
25	NW	0.87	4,612.01	5,029.75	OGW

API:	01360019	Loc fr N/S Sec Ln:	1994
API Label:	05-013-60019	Sec Line Dir N/S:	S
API Seq Code:	60019	Loc fr E/W Sec Ln:	1984
Well No:	1	Sec Line Dir E/W:	E
Well Name:	LABER	Qtr Qtr:	NWSE

Wells and Additional Sources Detail Report

Facility ID:	207030	Section:	20
Facility Type:	WELL	Township:	2N
Facility Status:	DA	Range:	69W
Well Title:	1 LABER	Meridian:	6
Operator:	P..M. ENTERPRISES	Latitude:	40.121606
Operator No:	66568	Longitude:	-105.138101
Field Code:	99999	Grnd Lvl Elev:	5027
Field Name:	WILDCAT	UTM X:	488233
Spud Date:		UTM Y:	4441264
Citing Type:		API County:	013
Location Name:	LABER-62N69W 20NWSE	API County Name:	BOULDER
Location Qualifer:	Planned Footage	Location ID:	379969
Max Meas Dpt:	165	Max Vt Dpt:	0
Stat Date:	1/11/1959	Source Stat:	
Name:		Source Cnty:	
Symbol:		SDF Key:	
Facility Status Desc:	DRY AND ABANDONED WELL.		

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
26	SE	0.89	4,724.67	5,068.05	OGW

API:	01306157	Loc fr N/S Sec Ln:	660
API Label:	05-013-06157	Sec Line Dir N/S:	S
API Seq Code:	06157	Loc fr E/W Sec Ln:	660
Well No:	1-28	Sec Line Dir E/W:	E
Well Name:	WALKER	Qtr Qtr:	SESE
Facility ID:	206662	Section:	28
Facility Type:	WELL	Township:	2N
Facility Status:	SI	Range:	69W
Well Title:	1-28 WALKER	Meridian:	6
Operator:	EXTRACTION OIL & GAS INC	Latitude:	40.10353
Operator No:	10459	Longitude:	-105.11476
Field Code:	90750	Grnd Lvl Elev:	5066
Field Name:	WATTENBERG	UTM X:	490219
Spud Date:		UTM Y:	4439254
Citing Type:		API County:	013
Location Name:	WALKER-62N69W 28SESE	API County Name:	BOULDER
Location Qualifer:	ACTUAL LatLong	Location ID:	321318
Max Meas Dpt:	8100	Max Vt Dpt:	0
Stat Date:	11/1/2020	Source Stat:	
Name:		Source Cnty:	
Symbol:		SDF Key:	
Facility Status Desc:	SHUT-IN WELL: COMPLETED WELL IS NOT PRODUCING BUT IS MECHANICALLY CAPABLE OF PRODUCTION.		

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
35	SSW	0.98	5,179.47	5,124.46	OGW

API:	01306413	Loc fr N/S Sec Ln:	660
API Label:	05-013-06413	Sec Line Dir N/S:	N
API Seq Code:	06413	Loc fr E/W Sec Ln:	660
Well No:	MB 33-4	Sec Line Dir E/W:	W
Well Name:	ANDERSON	Qtr Qtr:	NWNW
Facility ID:	206918	Section:	33
Facility Type:	WELL	Township:	2N
Facility Status:	AL	Range:	69W
Well Title:	MB 33-4 ANDERSON	Meridian:	6
Operator:	GERRITY OIL & GAS CORP	Latitude:	40.099866
Operator No:	33870	Longitude:	-105.12909
Field Code:	90750	Grnd Lvl Elev:	
Field Name:	WATTENBERG	UTM X:	488997
Spud Date:		UTM Y:	4438849
Citing Type:		API County:	013
Location Name:	ANDERSON-62N69W 33NWNW	API County Name:	BOULDER
Location Qualifer:	Planned Footage	Location ID:	379889
Max Meas Dpt:		Max Vt Dpt:	
Stat Date:	8/27/1994	Source Stat:	
Name:		Source Cnty:	
Symbol:		SDF Key:	
Facility Status Desc:	ABANDONED LOCATION: PERMIT VACATED; PER OPERATOR: WELL HAS NOT BEEN SPUD.		

Public Water Wells

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
20	SSW	0.82	4,354.38	5,112.91	WATER WELLS

Well Name:	SB00206928CCD	Water District ID:	
USGS Site ID:	400608105074301	Water District:	6
Location No:	SB00206928CCD	Water Division:	1
Permit No:		County:	BOULDER
Permit Suffix Code:		Counties:	BOULDER
Permit Replace Cd:		Designated Basin:	
Publication Name:		Management Distr:	
Owner:		Q10:	SE
Elevation (ft):	5268.22	Q40:	SW
Elevation Accuracy:	USGS NED 1-meter DEM	Q160:	SW
Aquifer 1:		Section:	28
Aquifer 2:		Township:	2.0 N
Aquifer Comment:		Range:	69.0 W
Measurement Date:	07/01/1976	Principle Meridian:	S
Water Lvl Depth ft:	7.00	Coords E/W (ft):	
Water Lvl Elev ft:	5261.22	Coords E/W Dir:	
POR Start:	07/01/1976	Coords N/S (ft):	
POR End:	07/01/1976	Coords N/S Dir:	

POR Count:	1	UTM X:	488992.2
Measurement by:	USGS	UTM Y:	4439109.3
Well Depth (ft):		Latitude:	40.102211
Top Perf Casing (ft):		Longitude:	-105.129163
Bot Perf Casing (ft):		Location:	(40.102211, -105.129163)
Base of Grout (ft):		Location Accuracy:	User supplied
Receipt:		Data Source:	USGS
Modified:	12/15/2018 06:31:00 AM		
More Information:	https://dwr.state.co.us/Tools/Groundwater/WaterLevels/33934		

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
22	NW	0.86	4,555.79	5,032.50	WATER WELLS

Well Name:	SB00206920DBC	Water District ID:	
USGS Site ID:	400715105081701	Water District:	5
Location No:	SB00206920DBC	Water Division:	1
Permit No:		County:	BOULDER
Permit Suffix Code:		Counties:	BOULDER
Permit Replace Cd:		Designated Basin:	
Publication Name:		Management Distr:	
Owner:		Q10:	SW
Elevation (ft):	5036.22	Q40:	NW
Elevation Accuracy:	USGS NED 1-meter DEM	Q160:	SE
Aquifer 1:		Section:	20
Aquifer 2:		Township:	2.0 N
Aquifer Comment:		Range:	69.0 W
Measurement Date:	03/01/1976	Principle Meridian:	S
Water Lvl Depth ft:	21.00	Coords E/W (ft):	
Water Lvl Elev ft:	5015.22	Coords E/W Dir:	
POR Start:	03/01/1976	Coords N/S (ft):	
POR End:	03/01/1976	Coords N/S Dir:	
POR Count:	1	UTM X:	488190.4
Measurement by:	USGS	UTM Y:	4441176.2
Well Depth (ft):	39	Latitude:	40.120823
Top Perf Casing (ft):		Longitude:	-105.138610
Bot Perf Casing (ft):		Location:	(40.120823, -105.13861)
Base of Grout (ft):		Location Accuracy:	User supplied
Receipt:		Data Source:	USGS
Modified:	12/15/2018 06:31:00 AM		
More Information:	https://dwr.state.co.us/Tools/Groundwater/WaterLevels/32682		

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
28	NNW	0.90	4,738.60	5,020.07	WATER WELLS

Well Name:	SB00206921BCB	Water District ID:	
USGS Site ID:	400734105074801	Water District:	5

Wells and Additional Sources Detail Report

Location No:	SB00206921BCB	Water Division:	1
Permit No:		County:	BOULDER
Permit Suffix Code:		Counties:	BOULDER
Permit Replace Cd:		Designated Basin:	
Publication Name:		Management Distr:	
Owner:		Q10:	NW
Elevation (ft):	5023.22	Q40:	SW
Elevation Accuracy:	USGS NED 1-meter DEM	Q160:	NW
Aquifer 1:		Section:	21
Aquifer 2:		Township:	2.0 N
Aquifer Comment:		Range:	69.0 W
Measurement Date:	02/01/1976	Principle Meridian:	S
Water Lvl Depth ft:	11.00	Coords E/W (ft):	
Water Lvl Elev ft:	5012.22	Coords E/W Dir:	
POR Start:	02/01/1976	Coords N/S (ft):	
POR End:	02/01/1976	Coords N/S Dir:	
POR Count:	1	UTM X:	488877.7
Measurement by:	USGS	UTM Y:	4441761.0
Well Depth (ft):	43	Latitude:	40.126103
Top Perf Casing (ft):		Longitude:	-105.130546
Bot Perf Casing (ft):		Location:	(40.126103, -105.130546)
Base of Grout (ft):		Location Accuracy:	User supplied
Receipt:		Data Source:	USGS
Modified:	12/15/2018 06:31:00 AM		
More Information:	https://dwr.state.co.us/Tools/Groundwater/WaterLevels/32687		

Water Wells Permit Database

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
1	NE	0.07	381.31	5,021.29	WATER WELLS

Receipt:	9010126	Parcel Name:	
WD ID:		Parcel Size (Acres):	
Well Name:		Lot:	
Associated Case No:		Block:	
County Parcel ID:		City:	
Permit:	24862-	County:	BOULDER
Permit Issued:		State:	
Permit Expires:		Postal Code:	
Permit Category:	Residential	Township:	2.0 N
Current Status:	Well Constructed	Range:	69.0 W
Special Use:		Section:	28
Associated Uses:	Domestic	Q160:	NW
Permitted Area:		Q40:	NE
Permitted Area Units:		Q10:	
Annual Approp. (AF):		Coords E/W (Feet):	
Well Depth (Feet):	73	Coords E/W Dir:	

Top Perf. Casing (ft):		Coords N/S (Feet):	
Bot Perf. Casing (ft):		Coords N/S Dir:	
Designated Basin:		UTM x:	489430.5
Well Constructed:	07/28/1965	UTM y:	4440458.6
First Beneficial Use:	07/28/1965	Location:	(40.114376, -105.124041)
Pump Installed:		Location Type:	Well (Application/Permit)
Well Plugged:		Location Accuracy:	Spotted from quarters
Yield (GPM):		Elevation:	
Static Water Level (ft):	20.00	Latitude:	40.114376
Denver Basin Aquifer:	Yes	Longitude:	-105.124041
Static Water Level Dt:	01/01/1900	Management District:	
Modified:		Division:	1
Associated Aquifers:	ALL UNNAMED AQUIFERS	Principle Meridian:	S
Water District:	5		
ID Key:	9010126 297437		
Contact Name:	GODOWN, DEAN		
Address:			
Counties:			
More Information:	https://dwr.state.co.us/Tools/WellPermits/9010126		
Comment:			

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
1	NE	0.07	381.31	5,021.29	WATER WELLS

Receipt:	0901991	Parcel Name:	
WD ID:		Parcel Size (Acres):	
Well Name:		Lot:	
Associated Case No:		Block:	
County Parcel ID:		City:	
Permit:	24911-	County:	BOULDER
Permit Issued:	08/09/1965	State:	
Permit Expires:		Postal Code:	
Permit Category:	Residential	Township:	2.0 N
Current Status:	Permit Issued	Range:	69.0 W
Special Use:		Section:	28
Associated Uses:	Domestic	Q160:	NW
Permitted Area:		Q40:	NE
Permitted Area Units:		Q10:	
Annual Approp. (AF):		Coords E/W (Feet):	
Well Depth (Feet):		Coords E/W Dir:	
Top Perf. Casing (ft):		Coords N/S (Feet):	
Bot Perf. Casing (ft):		Coords N/S Dir:	
Designated Basin:		UTM x:	489430.5
Well Constructed:		UTM y:	4440458.6
First Beneficial Use:		Location:	(40.114376, -105.124041)
Pump Installed:		Location Type:	Well (Application/Permit)

Wells and Additional Sources Detail Report

Well Plugged:		Location Accuracy:	Spotted from quarters
Yield (GPM):		Elevation:	
Static Water Level (ft):		Latitude:	40.114376
Denver Basin Aquifer:	Yes	Longitude:	-105.124041
Static Water Level Dt:		Management District:	
Modified:	08/09/1965 12:00:00 AM	Division:	1
Associated Aquifers:	ALL UNNAMED AQUIFERS	Principle Meridian:	S
Water District:	5		
ID Key:	0901991 82636		
Contact Name:	FELTON, ROBERT		
Address:			
Counties:			
More Information:	https://dwr.state.co.us/Tools/WellPermits/0901991		
Comment:			

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
2	WNW	0.19	1,028.57	5,034.29	WATER WELLS

Receipt:	9008511	Parcel Name:	
WD ID:		Parcel Size (Acres):	
Well Name:		Lot:	
Associated Case No:		Block:	
County Parcel ID:		City:	
Permit:	4578-	County:	BOULDER
Permit Issued:		State:	
Permit Expires:		Postal Code:	
Permit Category:	Residential	Township:	2.0 N
Current Status:	Well Constructed	Range:	69.0 W
Special Use:		Section:	28
Associated Uses:	Domestic, Stock	Q160:	NW
Permitted Area:		Q40:	NW
Permitted Area Units:		Q10:	
Annual Approp. (AF):		Coords E/W (Feet):	
Well Depth (Feet):	102	Coords E/W Dir:	
Top Perf. Casing (ft):		Coords N/S (Feet):	
Bot Perf. Casing (ft):		Coords N/S Dir:	
Designated Basin:		UTM x:	489029.9
Well Constructed:	10/05/1959	UTM y:	4440458.3
First Beneficial Use:	10/05/1959	Location:	(40.114368, -105.128741)
Pump Installed:		Location Type:	Well (Application/Permit)
Well Plugged:		Location Accuracy:	Spotted from quarters
Yield (GPM):		Elevation:	
Static Water Level (ft):	30.00	Latitude:	40.114368
Denver Basin Aquifer:	Yes	Longitude:	-105.128741
Static Water Level Dt:	01/01/1900	Management District:	
Modified:		Division:	1

Wells and Additional Sources Detail Report

Associated Aquifers:	ALL UNNAMED AQUIFERS	Principle Meridian:	S
Water District:	5		
ID Key:	9008511 134788		
Contact Name:	EMERY, OLIN		
Address:			
Counties:			
More Information:	https://dwr.state.co.us/Tools/WellPermits/9008511		
Comment:			

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
3	SSE	0.22	1,180.09	5,062.15	WATER WELLS

Receipt:	0907295	Parcel Name:	HILLCREST HEIGHTS
WD ID:		Parcel Size (Acres):	
Well Name:		Lot:	
Associated Case No:		Block:	
County Parcel ID:		City:	
Permit:	63972-	County:	BOULDER
Permit Issued:	09/05/1972	State:	
Permit Expires:		Postal Code:	
Permit Category:	Residential	Township:	2.0 N
Current Status:	Permit Expired	Range:	69.0 W
Special Use:		Section:	28
Associated Uses:	Domestic, Other	Q160:	NW
Permitted Area:		Q40:	SE
Permitted Area Units:		Q10:	
Annual Approp. (AF):		Coords E/W (Feet):	3200
Well Depth (Feet):		Coords E/W Dir:	E
Top Perf. Casing (ft):		Coords N/S (Feet):	2000
Bot Perf. Casing (ft):		Coords N/S Dir:	N
Designated Basin:		UTM x:	489456.8
Well Constructed:		UTM y:	4440051.6
First Beneficial Use:		Location:	(40.110713, -105.123723)
Pump Installed:		Location Type:	Well (Application/Permit)
Well Plugged:		Location Accuracy:	Spotted from section lines
Yield (GPM):		Elevation:	
Static Water Level (ft):		Latitude:	40.110713
Denver Basin Aquifer:	Yes	Longitude:	-105.123723
Static Water Level Dt:		Management District:	
Modified:	06/27/1972 12:00:00 AM	Division:	1
Associated Aquifers:	ALL UNNAMED AQUIFERS	Principle Meridian:	S
Water District:	5		
ID Key:	0907295 96400		
Contact Name:	BACKEY, EDSON E		
Address:			
Counties:			

More Information: https://dwr.state.co.us/Tools/WellPermits/0907295
Comment:

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
4	WNW	0.38	2,024.87	5,014.09	WATER WELLS

Receipt:	3609896	Parcel Name:	
WD ID:		Parcel Size (Acres):	
Well Name:		Lot:	
Associated Case No:		Block:	
County Parcel ID:		City:	
Permit:	4709--A	County:	BOULDER
Permit Issued:	11/20/2006	State:	
Permit Expires:	11/20/2008	Postal Code:	
Permit Category:	Residential	Township:	2.0 N
Current Status:	Permit Issued	Range:	69.0 W
Special Use:		Section:	29
Associated Uses:	Domestic, Stock	Q160:	NE
Permitted Area:		Q40:	NE
Permitted Area Units:		Q10:	
Annual Approp. (AF):		Coords E/W (Feet):	300
Well Depth (Feet):		Coords E/W Dir:	E
Top Perf. Casing (ft):		Coords N/S (Feet):	300
Bot Perf. Casing (ft):		Coords N/S Dir:	N
Designated Basin:		UTM x:	488744.3
Well Constructed:		UTM y:	4440565.3
First Beneficial Use:		Location:	(40.115326, -105.132098)
Pump Installed:		Location Type:	Well (Application/Permit)
Well Plugged:		Location Accuracy:	Spotted from section lines
Yield (GPM):		Elevation:	
Static Water Level (ft):		Latitude:	40.115326
Denver Basin Aquifer:	Yes	Longitude:	-105.132098
Static Water Level Dt:		Management District:	
Modified:	10/12/2006 12:00:00 AM	Division:	1
Associated Aquifers:	ALL UNNAMED AQUIFERS	Principle Meridian:	S
Water District:	5		
ID Key:	3609896 240598		
Contact Name:	BARRETT REVA JEAN ESTATE OF		
Address:			
Counties:			
More Information:	https://dwr.state.co.us/Tools/WellPermits/3609896		
Comment:			

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
5	W	0.44	2,320.19	5,020.82	WATER WELLS

Wells and Additional Sources Detail Report

Receipt:	9008522	Parcel Name:	
WD ID:		Parcel Size (Acres):	
Well Name:		Lot:	
Associated Case No:		Block:	
County Parcel ID:		City:	
Permit:	4709-	County:	BOULDER
Permit Issued:		State:	
Permit Expires:		Postal Code:	
Permit Category:	Residential	Township:	2.0 N
Current Status:	Well Constructed	Range:	69.0 W
Special Use:		Section:	29
Associated Uses:	Domestic	Q160:	NE
Permitted Area:		Q40:	NE
Permitted Area Units:		Q10:	
Annual Approp. (AF):		Coords E/W (Feet):	
Well Depth (Feet):	36	Coords E/W Dir:	
Top Perf. Casing (ft):		Coords N/S (Feet):	
Bot Perf. Casing (ft):		Coords N/S Dir:	
Designated Basin:		UTM x:	488632.0
Well Constructed:	10/08/1959	UTM y:	4440456.7
First Beneficial Use:	10/08/1959	Location:	(40.114348, -105.133411)
Pump Installed:		Location Type:	Well (Application/Permit)
Well Plugged:		Location Accuracy:	Spotted from quarters
Yield (GPM):		Elevation:	
Static Water Level (ft):	12.00	Latitude:	40.114348
Denver Basin Aquifer:	Yes	Longitude:	-105.133411
Static Water Level Dt:	01/01/1900	Management District:	
Modified:		Division:	1
Associated Aquifers:	ALL UNNAMED AQUIFERS	Principle Meridian:	S
Water District:	5		
ID Key:	9008522 10132		
Contact Name:	GROOVES J E & WILSON C W		
Address:			
Counties:			
More Information:	https://dwr.state.co.us/Tools/WellPermits/9008522		
Comment:			

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
7	SW	0.45	2,397.78	5,044.87	WATER WELLS

Receipt:	9012409	Parcel Name:	
WD ID:		Parcel Size (Acres):	
Well Name:		Lot:	
Associated Case No:		Block:	
County Parcel ID:		City:	
Permit:	63982-	County:	BOULDER

Wells and Additional Sources Detail Report

Permit Issued:	09/05/1972	State:	
Permit Expires:		Postal Code:	
Permit Category:	Residential	Township:	2.0 N
Current Status:	Well Constructed	Range:	69.0 W
Special Use:		Section:	29
Associated Uses:	Domestic	Q160:	NE
Permitted Area:		Q40:	SE
Permitted Area Units:		Q10:	
Annual Approp. (AF):		Coords E/W (Feet):	120
Well Depth (Feet):	200	Coords E/W Dir:	E
Top Perf. Casing (ft):	60	Coords N/S (Feet):	2440
Bot Perf. Casing (ft):	200	Coords N/S Dir:	N
Designated Basin:		UTM x:	488783.3
Well Constructed:	10/10/1972	UTM y:	4439913.2
First Beneficial Use:	10/10/1972	Location:	(40.109452, -105.131629)
Pump Installed:		Location Type:	Well (Application/Permit)
Well Plugged:		Location Accuracy:	Spotted from section lines
Yield (GPM):		Elevation:	
Static Water Level (ft):	31.00	Latitude:	40.109452
Denver Basin Aquifer:	Yes	Longitude:	-105.131629
Static Water Level Dt:	10/10/1972	Management District:	
Modified:	10/25/1972 12:00:00 AM	Division:	1
Associated Aquifers:	ALL UNNAMED AQUIFERS	Principle Meridian:	S
Water District:	6		
ID Key:	9012409 238968		
Contact Name:	TARRELL, DONNIE D		
Address:			
Counties:			
More Information:	https://dwr.state.co.us/Tools/WellPermits/9012409		
Comment:			

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
8	WNW	0.55	2,916.11	5,017.67	WATER WELLS

Receipt:	0300781	Parcel Name:	
WD ID:		Parcel Size (Acres):	
Well Name:		Lot:	
Associated Case No:		Block:	
County Parcel ID:		City:	
Permit:	154676-	County:	BOULDER
Permit Issued:	07/14/1989	State:	
Permit Expires:		Postal Code:	
Permit Category:	Residential	Township:	2.0 N
Current Status:	Well Constructed	Range:	69.0 W
Special Use:		Section:	29
Associated Uses:	Domestic	Q160:	NE

Wells and Additional Sources Detail Report

Permitted Area:		Q40:	NE
Permitted Area Units:		Q10:	
Annual Approp. (AF):		Coords E/W (Feet):	1200
Well Depth (Feet):	400	Coords E/W Dir:	E
Top Perf. Casing (ft):		Coords N/S (Feet):	200
Bot Perf. Casing (ft):		Coords N/S Dir:	N
Designated Basin:		UTM x:	488470.6
Well Constructed:	04/16/1991	UTM y:	4440595.1
First Beneficial Use:		Location:	(40.115592, -105.135302)
Pump Installed:		Location Type:	Well (Application/Permit)
Well Plugged:		Location Accuracy:	Spotted from section lines
Yield (GPM):		Elevation:	
Static Water Level (ft):		Latitude:	40.115592
Denver Basin Aquifer:	Yes	Longitude:	-105.135302
Static Water Level Dt:		Management District:	
Modified:	05/15/1991 12:00:00 AM	Division:	1
Associated Aquifers:	ALL UNNAMED AQUIFERS	Principle Meridian:	S
Water District:	5		
ID Key:	0300781 236051		
Contact Name:	STROH, RICHARD		
Address:			
Counties:			
More Information:	https://dwr.state.co.us/Tools/WellPermits/0300781		
Comment:			

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
8	WNW	0.55	2,916.11	5,017.67	WATER WELLS

Receipt:	0097233	Parcel Name:	
WD ID:		Parcel Size (Acres):	
Well Name:		Lot:	
Associated Case No:		Block:	
County Parcel ID:		City:	
Permit:	102652-	County:	BOULDER
Permit Issued:	10/16/1979	State:	
Permit Expires:		Postal Code:	
Permit Category:	Residential	Township:	2.0 N
Current Status:	Permit Expired	Range:	69.0 W
Special Use:		Section:	29
Associated Uses:	Domestic	Q160:	NE
Permitted Area:		Q40:	NE
Permitted Area Units:		Q10:	
Annual Approp. (AF):		Coords E/W (Feet):	1200
Well Depth (Feet):		Coords E/W Dir:	E
Top Perf. Casing (ft):		Coords N/S (Feet):	200
Bot Perf. Casing (ft):		Coords N/S Dir:	N

Wells and Additional Sources Detail Report

Designated Basin:		UTM x:	488470.6
Well Constructed:		UTM y:	4440595.1
First Beneficial Use:		Location:	(40.115592, -105.135302)
Pump Installed:		Location Type:	Well (Application/Permit)
Well Plugged:		Location Accuracy:	Spotted from section lines
Yield (GPM):		Elevation:	
Static Water Level (ft):		Latitude:	40.115592
Denver Basin Aquifer:	Yes	Longitude:	-105.135302
Static Water Level Dt:		Management District:	
Modified:	08/24/1978 12:00:00 AM	Division:	1
Associated Aquifers:	ALL UNNAMED AQUIFERS	Principle Meridian:	S
Water District:	5		
ID Key:	0097233 302473		
Contact Name:	STROH, DICK		
Address:			
Counties:			
More Information:	https://dwr.state.co.us/Tools/WellPermits/0097233		
Comment:			

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
9	WSW	0.56	2,972.78	5,031.94	WATER WELLS

Receipt:	0087976	Parcel Name:	
WD ID:		Parcel Size (Acres):	
Well Name:		Lot:	
Associated Case No:		Block:	
County Parcel ID:		City:	
Permit:	96297-	County:	BOULDER
Permit Issued:	01/23/1980	State:	
Permit Expires:		Postal Code:	
Permit Category:	Residential	Township:	2.0 N
Current Status:	Well Constructed	Range:	69.0 W
Special Use:		Section:	29
Associated Uses:	Domestic, Stock	Q160:	NE
Permitted Area:		Q40:	SE
Permitted Area Units:		Q10:	
Annual Approp. (AF):		Coords E/W (Feet):	950
Well Depth (Feet):	300	Coords E/W Dir:	E
Top Perf. Casing (ft):	180	Coords N/S (Feet):	2240
Bot Perf. Casing (ft):	300	Coords N/S Dir:	N
Designated Basin:		UTM x:	488531.7
Well Constructed:	04/15/1981	UTM y:	4439973.5
First Beneficial Use:		Location:	(40.109989, -105.134575)
Pump Installed:		Location Type:	Well (Application/Permit)
Well Plugged:		Location Accuracy:	Spotted from section lines
Yield (GPM):		Elevation:	

Static Water Level (ft):		Latitude:	40.109989
Denver Basin Aquifer:	Yes	Longitude:	-105.134575
Static Water Level Dt:		Management District:	
Modified:	01/04/2006 12:00:00 AM	Division:	1
Associated Aquifers:	ALL UNNAMED AQUIFERS	Principle Meridian:	S
Water District:	5		
ID Key:	0087976 1592		
Contact Name:	BRUNNER, JOHN H		
Address:			
Counties:			
More Information:	https://dwr.state.co.us/Tools/WellPermits/0087976		
Comment:			

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
11	W	0.57	3,033.28	5,030.17	WATER WELLS

Receipt:	0007699	Parcel Name:	
WD ID:		Parcel Size (Acres):	
Well Name:		Lot:	
Associated Case No:		Block:	
County Parcel ID:		City:	
Permit:	7699-TH	County:	BOULDER
Permit Issued:	07/30/1981	State:	
Permit Expires:		Postal Code:	
Permit Category:	Monitoring Hole (Notice of Intent)	Township:	2.0 N
Current Status:	Well Abandoned	Range:	69.0 W
Special Use:		Section:	29
Associated Uses:	Monitoring/Sampling	Q160:	NE
Permitted Area:		Q40:	SW
Permitted Area Units:		Q10:	
Annual Approp. (AF):		Coords E/W (Feet):	
Well Depth (Feet):		Coords E/W Dir:	
Top Perf. Casing (ft):		Coords N/S (Feet):	
Bot Perf. Casing (ft):	80	Coords N/S Dir:	
Designated Basin:		UTM x:	488422.1
Well Constructed:		UTM y:	4440251.6
First Beneficial Use:		Location:	(40.112501, -105.135871)
Pump Installed:		Location Type:	Well (Application/Permit)
Well Plugged:	08/24/1981	Location Accuracy:	User supplied
Yield (GPM):		Elevation:	
Static Water Level (ft):		Latitude:	40.112501
Denver Basin Aquifer:	Yes	Longitude:	-105.135871
Static Water Level Dt:		Management District:	
Modified:	01/14/2004 12:00:00 AM	Division:	1
Associated Aquifers:	ALL UNNAMED AQUIFERS	Principle Meridian:	S
Water District:	6		

Wells and Additional Sources Detail Report

ID Key:	0007699 56092
Contact Name:	KELLY, R L
Address:	
Counties:	
More Information:	https://dwr.state.co.us/Tools/WellPermits/0007699
Comment:	

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
13	SSW	0.70	3,703.00	5,089.78	WATER WELLS

Receipt:	3674813	Parcel Name:	
WD ID:		Parcel Size (Acres):	
Well Name:		Lot:	
Associated Case No:		Block:	
County Parcel ID:		City:	
Permit:	80244-F	County:	BOULDER
Permit Issued:	09/15/2016	State:	
Permit Expires:		Postal Code:	
Permit Category:	General Purpose	Township:	2.0 N
Current Status:	Well Constructed	Range:	69.0 W
Special Use:		Section:	29
Associated Uses:	Other	Q160:	SE
Permitted Area:		Q40:	SE
Permitted Area Units:		Q10:	
Annual Approp. (AF):		Coords E/W (Feet):	
Well Depth (Feet):		Coords E/W Dir:	
Top Perf. Casing (ft):		Coords N/S (Feet):	
Bot Perf. Casing (ft):		Coords N/S Dir:	
Designated Basin:		UTM x:	488774.0
Well Constructed:	01/01/2016	UTM y:	4439412.0
First Beneficial Use:		Location:	(40.104938, -105.131726)
Pump Installed:	01/01/2016	Location Type:	Well (Application/Permit)
Well Plugged:		Location Accuracy:	User supplied
Yield (GPM):		Elevation:	
Static Water Level (ft):		Latitude:	40.104938
Denver Basin Aquifer:	Yes	Longitude:	-105.131726
Static Water Level Dt:		Management District:	
Modified:	08/04/2016 12:00:00 AM	Division:	1
Associated Aquifers:	ALL UNNAMED AQUIFERS	Principle Meridian:	S
Water District:	5		

ID Key:	3674813 255579
Contact Name:	ROCKY MOUNTAIN CHRISTIAN CHRUCH
Address:	
Counties:	
More Information:	https://dwr.state.co.us/Tools/WellPermits/3674813
Comment:	

Wells and Additional Sources Detail Report

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
16	SE	0.73	3,829.40	5,063.61	WATER WELLS

Receipt:	0025004B	Parcel Name:	
WD ID:		Parcel Size (Acres):	
Well Name:		Lot:	
Associated Case No:		Block:	
County Parcel ID:		City:	
Permit:	25004-MH	County:	BOULDER
Permit Issued:	01/31/1995	State:	
Permit Expires:	05/01/1995	Postal Code:	
Permit Category:	Monitoring Hole (Notice of Intent)	Township:	2.0 N
Current Status:	Permit Issued	Range:	69.0 W
Special Use:		Section:	28
Associated Uses:	Monitoring/Sampling	Q160:	SE
Permitted Area:		Q40:	NE
Permitted Area Units:		Q10:	
Annual Approp. (AF):		Coords E/W (Feet):	
Well Depth (Feet):		Coords E/W Dir:	
Top Perf. Casing (ft):		Coords N/S (Feet):	
Bot Perf. Casing (ft):		Coords N/S Dir:	
Designated Basin:		UTM x:	490023.0
Well Constructed:		UTM y:	4439447.2
First Beneficial Use:		Location:	(40.10527, -105.117072)
Pump Installed:		Location Type:	Well (Application/Permit)
Well Plugged:		Location Accuracy:	Spotted from quarters
Yield (GPM):		Elevation:	
Static Water Level (ft):		Latitude:	40.105270
Denver Basin Aquifer:	Yes	Longitude:	-105.117072
Static Water Level Dt:		Management District:	
Modified:	01/27/1995 12:00:00 AM	Division:	1
Associated Aquifers:	ALL UNNAMED AQUIFERS	Principle Meridian:	S
Water District:	5		
ID Key:	0025004B 296255		
Contact Name:	NORTHERN COLO WATER CONSERVANCY		
Address:			
Counties:			
More Information:	https://dwr.state.co.us/Tools/WellPermits/0025004B		
Comment:			

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
19	NNW	0.81	4,285.84	5,005.62	WATER WELLS

Receipt:	9010792	Parcel Name:	
WD ID:		Parcel Size (Acres):	

Wells and Additional Sources Detail Report

Well Name:		Lot:	
Associated Case No:		Block:	
County Parcel ID:		City:	
Permit:	33439-	County:	BOULDER
Permit Issued:	04/15/1968	State:	
Permit Expires:		Postal Code:	
Permit Category:	Residential	Township:	2.0 N
Current Status:	Well Constructed	Range:	69.0 W
Special Use:		Section:	21
Associated Uses:	Domestic	Q160:	NW
Permitted Area:		Q40:	SW
Permitted Area Units:		Q10:	
Annual Approp. (AF):		Coords E/W (Feet):	
Well Depth (Feet):	100	Coords E/W Dir:	
Top Perf. Casing (ft):		Coords N/S (Feet):	
Bot Perf. Casing (ft):		Coords N/S Dir:	
Designated Basin:		UTM x:	489044.8
Well Constructed:	04/22/1968	UTM y:	4441664.2
First Beneficial Use:	04/22/1968	Location:	(40.125233, -105.128587)
Pump Installed:		Location Type:	Well (Application/Permit)
Well Plugged:		Location Accuracy:	Spotted from quarters
Yield (GPM):		Elevation:	
Static Water Level (ft):	19.00	Latitude:	40.125233
Denver Basin Aquifer:	No	Longitude:	-105.128587
Static Water Level Dt:	04/22/1968	Management District:	
Modified:	05/01/1968 12:00:00 AM	Division:	1
Associated Aquifers:	ALL UNNAMED AQUIFERS	Principle Meridian:	S
Water District:	5		
ID Key:	9010792 20855		
Contact Name:	ZEIMET MARY JOSEPHINE		
Address:			
Counties:			
More Information:	https://dwr.state.co.us/Tools/WellPermits/9010792		
Comment:			

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
19	NNW	0.81	4,285.84	5,005.62	WATER WELLS

Receipt:	0012574	Parcel Name:	
WD ID:		Parcel Size (Acres):	
Well Name:		Lot:	
Associated Case No:		Block:	
County Parcel ID:		City:	
Permit:	345-AD	County:	BOULDER
Permit Issued:		State:	
Permit Expires:		Postal Code:	

Wells and Additional Sources Detail Report

Permit Category:	General Purpose	Township:	2.0 N
Current Status:	Application Denied	Range:	69.0 W
Special Use:		Section:	21
Associated Uses:	Irrigation	Q160:	NW
Permitted Area:		Q40:	SW
Permitted Area Units:		Q10:	
Annual Approp. (AF):		Coords E/W (Feet):	
Well Depth (Feet):		Coords E/W Dir:	
Top Perf. Casing (ft):		Coords N/S (Feet):	
Bot Perf. Casing (ft):		Coords N/S Dir:	
Designated Basin:		UTM x:	489044.8
Well Constructed:		UTM y:	4441664.2
First Beneficial Use:		Location:	(40.125233, -105.128587)
Pump Installed:		Location Type:	Well (Application/Permit)
Well Plugged:		Location Accuracy:	Spotted from quarters
Yield (GPM):		Elevation:	
Static Water Level (ft):		Latitude:	40.125233
Denver Basin Aquifer:	No	Longitude:	-105.128587
Static Water Level Dt:		Management District:	
Modified:		Division:	1
Associated Aquifers:	ALL UNNAMED AQUIFERS	Principle Meridian:	S
Water District:	5		
ID Key:	0012574 263170		
Contact Name:	BEEN, STUART A		
Address:			
Counties:			
More Information:	https://dwr.state.co.us/Tools/WellPermits/0012574		
Comment:			

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
19	NNW	0.81	4,285.84	5,005.62	WATER WELLS

Receipt:	0902445	Parcel Name:	
WD ID:		Parcel Size (Acres):	
Well Name:		Lot:	
Associated Case No:		Block:	
County Parcel ID:		City:	
Permit:	30517-	County:	BOULDER
Permit Issued:		State:	
Permit Expires:		Postal Code:	
Permit Category:	Residential	Township:	2.0 N
Current Status:	Permit Expired	Range:	69.0 W
Special Use:		Section:	21
Associated Uses:	Domestic	Q160:	NW
Permitted Area:		Q40:	SW
Permitted Area Units:		Q10:	

Wells and Additional Sources Detail Report

Annual Approp. (AF):		Coords E/W (Feet):	
Well Depth (Feet):		Coords E/W Dir:	
Top Perf. Casing (ft):		Coords N/S (Feet):	
Bot Perf. Casing (ft):		Coords N/S Dir:	
Designated Basin:		UTM x:	489044.8
Well Constructed:		UTM y:	4441664.2
First Beneficial Use:		Location:	(40.125233, -105.128587)
Pump Installed:		Location Type:	Well (Application/Permit)
Well Plugged:		Location Accuracy:	Spotted from quarters
Yield (GPM):		Elevation:	
Static Water Level (ft):		Latitude:	40.125233
Denver Basin Aquifer:	No	Longitude:	-105.128587
Static Water Level Dt:		Management District:	
Modified:	05/17/2004 12:00:00 AM	Division:	1
Associated Aquifers:	ALL UNNAMED AQUIFERS	Principle Meridian:	S
Water District:	5		
ID Key:	0902445 312763		
Contact Name:	BEEN, STUART A		
Address:			
Counties:			
More Information:	https://dwr.state.co.us/Tools/WellPermits/0902445		
Comment:			

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
21	NW	0.84	4,442.23	5,025.86	WATER WELLS

Receipt:	0033518	Parcel Name:	
WD ID:		Parcel Size (Acres):	
Well Name:		Lot:	
Associated Case No:		Block:	
County Parcel ID:		City:	
Permit:	3049-AD	County:	BOULDER
Permit Issued:		State:	
Permit Expires:		Postal Code:	
Permit Category:	Residential	Township:	2.0 N
Current Status:	Application Denied	Range:	69.0 W
Special Use:		Section:	20
Associated Uses:	Domestic	Q160:	NE
Permitted Area:		Q40:	SE
Permitted Area Units:		Q10:	
Annual Approp. (AF):		Coords E/W (Feet):	870
Well Depth (Feet):		Coords E/W Dir:	E
Top Perf. Casing (ft):		Coords N/S (Feet):	2500
Bot Perf. Casing (ft):		Coords N/S Dir:	N
Designated Basin:		UTM x:	488577.1
Well Constructed:		UTM y:	4441512.2

First Beneficial Use:		Location:	(40.123855, -105.134075)
Pump Installed:		Location Type:	Well (Application/Permit)
Well Plugged:		Location Accuracy:	Spotted from section lines
Yield (GPM):		Elevation:	
Static Water Level (ft):		Latitude:	40.123855
Denver Basin Aquifer:	No	Longitude:	-105.134075
Static Water Level Dt:		Management District:	
Modified:		Division:	1
Associated Aquifers:	ALL UNNAMED AQUIFERS	Principle Meridian:	S
Water District:	5		
ID Key:	0033518 276307		
Contact Name:	THORNOCK, JOANNE		
Address:			
Counties:			
More Information:	https://dwr.state.co.us/Tools/WellPermits/0033518		
Comment:			

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
23	ENE	0.86	4,566.23	4,992.65	WATER WELLS

Receipt:	0025312	Parcel Name:	GAYNOR LAKE (FILING: 2)
WD ID:		Parcel Size (Acres):	
Well Name:		Lot:	
Associated Case No:		Block:	
County Parcel ID:		City:	
Permit:	56521-	County:	BOULDER
Permit Issued:	04/10/1972	State:	
Permit Expires:		Postal Code:	
Permit Category:	Residential	Township:	2.0 N
Current Status:	Permit Expired	Range:	69.0 W
Special Use:		Section:	22
Associated Uses:	Irrigation	Q160:	SW
Permitted Area:		Q40:	SW
Permitted Area Units:		Q10:	
Annual Approp. (AF):		Coords E/W (Feet):	
Well Depth (Feet):		Coords E/W Dir:	
Top Perf. Casing (ft):		Coords N/S (Feet):	
Bot Perf. Casing (ft):		Coords N/S Dir:	
Designated Basin:		UTM x:	490642.9
Well Constructed:		UTM y:	4440869.8
First Beneficial Use:		Location:	(40.118095, -105.10982)
Pump Installed:		Location Type:	Well (Application/Permit)
Well Plugged:		Location Accuracy:	Spotted from quarters
Yield (GPM):		Elevation:	
Static Water Level (ft):		Latitude:	40.118095
Denver Basin Aquifer:	Yes	Longitude:	-105.109820

Wells and Additional Sources Detail Report

Static Water Level Dt:		Management District:	
Modified:	06/15/2004 12:00:00 AM	Division:	1
Associated Aquifers:	ALL UNNAMED AQUIFERS	Principle Meridian:	S
Water District:	2		
ID Key:	0025312 307484		
Contact Name:	SCHMIT, JAMES H		
Address:			
Counties:			
More Information:	https://dwr.state.co.us/Tools/WellPermits/0025312		
Comment:			

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
24	NW	0.87	4,594.69	5,030.11	WATER WELLS

Receipt:	9008307	Parcel Name:	
WD ID:		Parcel Size (Acres):	
Well Name:		Lot:	
Associated Case No:		Block:	
County Parcel ID:		City:	
Permit:	1886-R	County:	BOULDER
Permit Issued:		State:	
Permit Expires:		Postal Code:	
Permit Category:	General Purpose	Township:	2.0 N
Current Status:		Range:	69.0 W
Special Use:		Section:	20
Associated Uses:	Irrigation	Q160:	SE
Permitted Area:		Q40:	NW
Permitted Area Units:		Q10:	
Annual Approp. (AF):		Coords E/W (Feet):	
Well Depth (Feet):		Coords E/W Dir:	
Top Perf. Casing (ft):		Coords N/S (Feet):	
Bot Perf. Casing (ft):		Coords N/S Dir:	
Designated Basin:		UTM x:	488237.3
Well Constructed:		UTM y:	4441259.0
First Beneficial Use:		Location:	(40.121572, -105.138057)
Pump Installed:		Location Type:	Well (Application/Permit)
Well Plugged:		Location Accuracy:	Spotted from quarters
Yield (GPM):		Elevation:	
Static Water Level (ft):		Latitude:	40.121572
Denver Basin Aquifer:	No	Longitude:	-105.138057
Static Water Level Dt:		Management District:	
Modified:		Division:	1
Associated Aquifers:	ALL UNNAMED AQUIFERS	Principle Meridian:	S
Water District:	5		
ID Key:	9008307 133366		
Contact Name:	LABER, ALEXANDER		

Wells and Additional Sources Detail Report

Address:
Counties:
More Information: https://dwr.state.co.us/Tools/WellPermits/9008307
Comment:

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
27	NW	0.90	4,735.03	5,026.08	WATER WELLS

Receipt:	0467038	Parcel Name:	
WD ID:		Parcel Size (Acres):	
Well Name:		Lot:	
Associated Case No:		Block:	
County Parcel ID:		City:	LONGMONT
Permit:	229908-	County:	BOULDER
Permit Issued:	11/08/2000	State:	CO
Permit Expires:	11/08/2002	Postal Code:	80503
Permit Category:	Residential	Township:	2.0 N
Current Status:	Well Constructed	Range:	69.0 W
Special Use:		Section:	20
Associated Uses:	Household use only	Q160:	NE
Permitted Area:		Q40:	SE
Permitted Area Units:		Q10:	
Annual Approp. (AF):		Coords E/W (Feet):	
Well Depth (Feet):	0	Coords E/W Dir:	
Top Perf. Casing (ft):		Coords N/S (Feet):	
Bot Perf. Casing (ft):		Coords N/S Dir:	
Designated Basin:		UTM x:	488450.0
Well Constructed:		UTM y:	4441530.0
First Beneficial Use:		Location:	(40.124016, -105.135565)
Pump Installed:	07/17/2019	Location Type:	Well (Construction Report)
Well Plugged:		Location Accuracy:	User supplied
Yield (GPM):	10.00	Elevation:	
Static Water Level (ft):	3.00	Latitude:	40.124016
Denver Basin Aquifer:	No	Longitude:	-105.135565
Static Water Level Dt:	07/17/2019	Management District:	
Modified:	08/23/2019 10:43:00 AM	Division:	1
Associated Aquifers:	ALL UNNAMED AQUIFERS	Principle Meridian:	S
Water District:	5		
ID Key:	0467038 323304		
Contact Name:	TURNER, JOHN		
Address:	9283 OGALLALA RD		
Counties:			
More Information:	https://dwr.state.co.us/Tools/WellPermits/0467038		
Comment:			

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
29	SE	0.90	4,752.13	5,068.53	WATER WELLS

Receipt:	0043445	Parcel Name:	
WD ID:		Parcel Size (Acres):	
Well Name:		Lot:	
Associated Case No:		Block:	
County Parcel ID:		City:	
Permit:	43445-MH	County:	BOULDER
Permit Issued:	04/21/2004	State:	
Permit Expires:	07/20/2004	Postal Code:	
Permit Category:	Monitoring Hole (Notice of Intent)	Township:	2.0 N
Current Status:	Well Abandoned	Range:	69.0 W
Special Use:		Section:	28
Associated Uses:	Monitoring/Sampling	Q160:	SE
Permitted Area:		Q40:	SE
Permitted Area Units:		Q10:	
Annual Approp. (AF):		Coords E/W (Feet):	
Well Depth (Feet):		Coords E/W Dir:	
Top Perf. Casing (ft):		Coords N/S (Feet):	
Bot Perf. Casing (ft):		Coords N/S Dir:	
Designated Basin:		UTM x:	490222.0
Well Constructed:		UTM y:	4439244.9
First Beneficial Use:		Location:	(40.10345, -105.114734)
Pump Installed:		Location Type:	Well (Application/Permit)
Well Plugged:	04/11/2005	Location Accuracy:	Spotted from quarters
Yield (GPM):		Elevation:	
Static Water Level (ft):		Latitude:	40.103450
Denver Basin Aquifer:	Yes	Longitude:	-105.114734
Static Water Level Dt:		Management District:	
Modified:	04/15/2005 12:00:00 AM	Division:	1
Associated Aquifers:	ALL UNNAMED AQUIFERS	Principle Meridian:	S
Water District:	5		
ID Key:	0043445 72118		
Contact Name:	ROCKY MOUNTAIN CHRISTIAN CHURCH		
Address:			
Counties:			
More Information:	https://dwr.state.co.us/Tools/WellPermits/0043445		
Comment:			

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
30	NNW	0.90	4,753.65	5,020.96	WATER WELLS

Receipt:	9009768	Parcel Name:	
WD ID:		Parcel Size (Acres):	
Well Name:		Lot:	
Associated Case No:		Block:	

Wells and Additional Sources Detail Report

County Parcel ID:		City:	
Permit:	19764-	County:	BOULDER
Permit Issued:		State:	
Permit Expires:		Postal Code:	
Permit Category:	Residential	Township:	2.0 N
Current Status:	Well Constructed	Range:	69.0 W
Special Use:		Section:	20
Associated Uses:	Domestic	Q160:	NE
Permitted Area:		Q40:	SE
Permitted Area Units:		Q10:	
Annual Approp. (AF):		Coords E/W (Feet):	
Well Depth (Feet):	38	Coords E/W Dir:	
Top Perf. Casing (ft):		Coords N/S (Feet):	
Bot Perf. Casing (ft):		Coords N/S Dir:	
Designated Basin:		UTM x:	488641.5
Well Constructed:	05/16/1964	UTM y:	4441662.4
First Beneficial Use:	05/16/1964	Location:	(40.125211, -105.13332)
Pump Installed:		Location Type:	Well (Application/Permit)
Well Plugged:		Location Accuracy:	Spotted from quarters
Yield (GPM):		Elevation:	
Static Water Level (ft):	7.00	Latitude:	40.125211
Denver Basin Aquifer:	No	Longitude:	-105.133320
Static Water Level Dt:	01/01/1900	Management District:	
Modified:		Division:	1
Associated Aquifers:	ALL UNNAMED AQUIFERS	Principle Meridian:	S
Water District:	5		
ID Key:	9009768 291166		
Contact Name:	CARSTENSEN, CARL		
Address:			
Counties:			
More Information:	https://dwr.state.co.us/Tools/WellPermits/9009768		
Comment:			

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
30	NNW	0.90	4,753.65	5,020.96	WATER WELLS

Receipt:	9011607	Parcel Name:	
WD ID:		Parcel Size (Acres):	
Well Name:		Lot:	
Associated Case No:		Block:	
County Parcel ID:		City:	
Permit:	47229-	County:	BOULDER
Permit Issued:		State:	
Permit Expires:		Postal Code:	
Permit Category:	Residential	Township:	2.0 N
Current Status:	Well Constructed	Range:	69.0 W

Wells and Additional Sources Detail Report

Special Use:		Section:	20
Associated Uses:	Domestic	Q160:	NE
Permitted Area:		Q40:	SE
Permitted Area Units:		Q10:	
Annual Approp. (AF):		Coords E/W (Feet):	
Well Depth (Feet):	64	Coords E/W Dir:	
Top Perf. Casing (ft):		Coords N/S (Feet):	
Bot Perf. Casing (ft):		Coords N/S Dir:	
Designated Basin:		UTM x:	488641.5
Well Constructed:	07/12/1971	UTM y:	4441662.4
First Beneficial Use:	07/12/1971	Location:	(40.125211, -105.13332)
Pump Installed:		Location Type:	Well (Application/Permit)
Well Plugged:		Location Accuracy:	Spotted from quarters
Yield (GPM):		Elevation:	
Static Water Level (ft):	12.00	Latitude:	40.125211
Denver Basin Aquifer:	No	Longitude:	-105.133320
Static Water Level Dt:	01/01/1900	Management District:	
Modified:		Division:	1
Associated Aquifers:	ALL UNNAMED AQUIFERS	Principle Meridian:	S
Water District:	5		
ID Key:	9011607 237927		
Contact Name:	LABER, ALEX		
Address:			
Counties:			
More Information:	https://dwr.state.co.us/Tools/WellPermits/9011607		
Comment:			

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
30	NNW	0.90	4,753.65	5,020.96	WATER WELLS

Receipt:	9010251	Parcel Name:	
WD ID:		Parcel Size (Acres):	
Well Name:		Lot:	
Associated Case No:		Block:	
County Parcel ID:		City:	
Permit:	26439-	County:	BOULDER
Permit Issued:	03/02/1966	State:	
Permit Expires:		Postal Code:	
Permit Category:	Residential	Township:	2.0 N
Current Status:	Well Constructed	Range:	69.0 W
Special Use:		Section:	20
Associated Uses:	Domestic	Q160:	NE
Permitted Area:		Q40:	SE
Permitted Area Units:		Q10:	
Annual Approp. (AF):		Coords E/W (Feet):	
Well Depth (Feet):	40	Coords E/W Dir:	

Top Perf. Casing (ft):	8	Coords N/S (Feet):	
Bot Perf. Casing (ft):	30	Coords N/S Dir:	
Designated Basin:		UTM x:	488641.5
Well Constructed:	03/11/1966	UTM y:	4441662.4
First Beneficial Use:	03/11/1966	Location:	(40.125211, -105.13332)
Pump Installed:		Location Type:	Well (Application/Permit)
Well Plugged:		Location Accuracy:	Spotted from quarters
Yield (GPM):		Elevation:	
Static Water Level (ft):	11.00	Latitude:	40.125211
Denver Basin Aquifer:	No	Longitude:	-105.133320
Static Water Level Dt:	03/11/1966	Management District:	
Modified:	01/12/2018 01:34:00 PM	Division:	1
Associated Aquifers:	ALL UNNAMED AQUIFERS	Principle Meridian:	S
Water District:	5		
ID Key:	9010251 381803		
Contact Name:	SOMMERS, MICHAEL R.		
Address:			
Counties:			
More Information:	https://dwr.state.co.us/Tools/WellPermits/9010251		
Comment:			

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
31	NNW	0.90	4,772.35	5,021.01	WATER WELLS

Receipt:	9011005	Parcel Name:	
WD ID:		Parcel Size (Acres):	
Well Name:		Lot:	
Associated Case No:		Block:	
County Parcel ID:		City:	LONGMONT
Permit:	37002-	County:	BOULDER
Permit Issued:		State:	CO
Permit Expires:		Postal Code:	80504
Permit Category:	Residential	Township:	2.0 N
Current Status:	Well Constructed	Range:	69.0 W
Special Use:		Section:	20
Associated Uses:	Stock	Q160:	NE
Permitted Area:		Q40:	SE
Permitted Area Units:		Q10:	
Annual Approp. (AF):		Coords E/W (Feet):	
Well Depth (Feet):		Coords E/W Dir:	
Top Perf. Casing (ft):		Coords N/S (Feet):	
Bot Perf. Casing (ft):		Coords N/S Dir:	
Designated Basin:		UTM x:	488640.3
Well Constructed:		UTM y:	4441668.1
First Beneficial Use:	03/17/1969	Location:	(40.125262, -105.133338)
Pump Installed:	07/06/2018	Location Type:	Well (Construction Report)

Wells and Additional Sources Detail Report

Well Plugged:		Location Accuracy:	User supplied
Yield (GPM):	10.00	Elevation:	
Static Water Level (ft):		Latitude:	40.125262
Denver Basin Aquifer:	No	Longitude:	-105.133338
Static Water Level Dt:		Management District:	
Modified:	08/08/2018 08:57:00 AM	Division:	1
Associated Aquifers:	ALL UNNAMED AQUIFERS	Principle Meridian:	S
Water District:	5		
ID Key:	9011005 194586		
Contact Name:	GEORGE, DIXIE E		
Address:	8309 N 95TH		
Counties:			
More Information:	https://dwr.state.co.us/Tools/WellPermits/9011005		
Comment:			

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
33	NNW	0.92	4,861.90	5,019.81	WATER WELLS

Receipt:	9008532	Parcel Name:	
WD ID:		Parcel Size (Acres):	
Well Name:		Lot:	
Associated Case No:		Block:	
County Parcel ID:		City:	LONGMONT
Permit:	4837-	County:	BOULDER
Permit Issued:		State:	CO
Permit Expires:		Postal Code:	80504
Permit Category:	Residential	Township:	2.0 N
Current Status:	Well Constructed	Range:	69.0 W
Special Use:		Section:	21
Associated Uses:	Domestic	Q160:	NW
Permitted Area:		Q40:	SW
Permitted Area Units:		Q10:	
Annual Approp. (AF):		Coords E/W (Feet):	
Well Depth (Feet):		Coords E/W Dir:	
Top Perf. Casing (ft):		Coords N/S (Feet):	
Bot Perf. Casing (ft):		Coords N/S Dir:	
Designated Basin:		UTM x:	488890.0
Well Constructed:		UTM y:	4441804.0
First Beneficial Use:	11/21/1959	Location:	(40.12649, -105.130406)
Pump Installed:	06/13/2018	Location Type:	Well (Construction Report)
Well Plugged:		Location Accuracy:	User supplied
Yield (GPM):	15.00	Elevation:	
Static Water Level (ft):		Latitude:	40.126490
Denver Basin Aquifer:	No	Longitude:	-105.130406
Static Water Level Dt:		Management District:	
Modified:	07/27/2018 09:34:00 AM	Division:	1

Wells and Additional Sources Detail Report

Associated Aquifers:	ALL UNNAMED AQUIFERS	Principle Meridian:	S
Water District:	5		
ID Key:	9008532 90761		
Contact Name:	OCONNELL, F D		
Address:	8352 N 95TH		
Counties:			
More Information:	https://dwr.state.co.us/Tools/WellPermits/9008532		
Comment:			

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
34	SSW	0.93	4,891.24	5,115.24	WATER WELLS

Receipt:	0490466	Parcel Name:	
WD ID:		Parcel Size (Acres):	
Well Name:		Lot:	
Associated Case No:		Block:	
County Parcel ID:		City:	
Permit:	240968-	County:	BOULDER
Permit Issued:	05/13/2002	State:	
Permit Expires:		Postal Code:	
Permit Category:	Residential	Township:	2.0 N
Current Status:	Well Constructed	Range:	69.0 W
Special Use:		Section:	33
Associated Uses:	Domestic	Q160:	NW
Permitted Area:		Q40:	NW
Permitted Area Units:		Q10:	
Annual Approp. (AF):		Coords E/W (Feet):	800
Well Depth (Feet):	150	Coords E/W Dir:	W
Top Perf. Casing (ft):		Coords N/S (Feet):	400
Bot Perf. Casing (ft):		Coords N/S Dir:	N
Designated Basin:		UTM x:	489043.1
Well Constructed:		UTM y:	4438928.7
First Beneficial Use:	01/01/1930	Location:	(40.10059, -105.128562)
Pump Installed:		Location Type:	Well (Application/Permit)
Well Plugged:		Location Accuracy:	Spotted from section lines
Yield (GPM):		Elevation:	
Static Water Level (ft):		Latitude:	40.100590
Denver Basin Aquifer:	Yes	Longitude:	-105.128562
Static Water Level Dt:		Management District:	
Modified:	04/15/2002 12:00:00 AM	Division:	1
Associated Aquifers:	ALL UNNAMED AQUIFERS	Principle Meridian:	S
Water District:	6		
ID Key:	0490466 253342		
Contact Name:	ROTH, WAYNE		
Address:			
Counties:			

Wells and Additional Sources Detail Report

More Information: https://dwr.state.co.us/Tools/WellPermits/0490466

Comment:

Radon Information

This section lists any relevant radon information found for the target property.

Federal EPA Radon Zone for *BOULDER* County: **1**

Zone 1: Counties with predicted average indoor radon screening levels greater than 4 pCi/L
Zone 2: Counties with predicted average indoor radon screening levels from 2 to 4 pCi/L
Zone 3: Counties with predicted average indoor radon screening levels less than 2 pCi/L

Federal Area Radon Information for *BOULDER* County

No Measures/Homes:	54
Geometric Mean:	2.7
Arithmetic Mean:	4.2
Median:	2.6
Standard Deviation:	3.9
Maximum:	20.2
% >4 pCi/L:	41
% >20 pCi/L:	2
Notes on Data Table:	TABLE 1. Screening indoor radon data from the EPA/State Residential Radon Survey of Colorado conducted during 1986-87. Data represent 2-7 day charcoal canister measurements from the lowest level of each home tested.

Appendix

Federal Sources

FEMA National Flood Hazard Layer — **FEMA FLOOD**

The National Flood Hazard Layer (NFHL) data incorporates Flood Insurance Rate Map (FIRM) databases published by the Federal Emergency Management Agency (FEMA), and any Letters Of Map Revision (LOMRs) that have been issued against those databases since their publication date. The FIRM Database is the digital, geospatial version of the flood hazard information shown on the published paper FIRMs. The FIRM Database depicts flood risk information and supporting data used to develop the risk data. The FIRM Database is derived from Flood Insurance Studies (FISs), previously published FIRMs, flood hazard analyses performed in support of the FISs and FIRMs, and new mapping data, where available.

Indoor Radon Data — **INDOOR RADON**

Indoor radon measurements tracked by the Environmental Protection Agency(EPA) and the State Residential Radon Survey.

Public Water Systems Violations and Enforcement Data — **PWSV**

List of drinking water violations and enforcement actions from the Safe Drinking Water Information System (SDWIS) made available by the Drinking Water Protection Division of the US EPA's Office of Groundwater and Drinking Water. Enforcement sensitive actions are not included in the data released by the EPA. Address information provided in SWDIS may correspond either with the physical location of the water system, or with a contact address.

Radon Zone Level — **RADON ZONE**

Areas showing the level of Radon Zones (level 1, 2 or 3) by county. This data is maintained by the Environmental Protection Agency (EPA).

Safe Drinking Water Information System (SDWIS) — **SDWIS**

The Safe Drinking Water Information System (SDWIS) contains information about public water systems as reported to US Environmental Protection Agency (EPA) by the states. Addresses may correspond with the location of the water system, or with a contact address.

Soil Survey Geographic database — **SSURGO**

The Soil Survey Geographic database (SSURGO) contains information about soil as collected by the National Cooperative Soil Survey at the Natural Resources Conservation Service (NRCS). Soil maps outline areas called map units. The map units are linked to soil properties in a database. Each map unit may contain one to three major components and some minor components.

U.S. Fish & Wildlife Service Wetland Data — **US WETLAND**

The U.S. Fish & Wildlife Service Wetland layer represents the approximate location and type of wetlands and deepwater habitats in the United States.

USGS Current Topo — **US TOPO**

US Topo topographic maps are produced by the National Geospatial Program of the U.S. Geological Survey (USGS). The project was launched in late 2009, and the term "US Topo" refers specifically to quadrangle topographic maps published in 2009 and later.

USGS Geology — **US GEOLOGY**

Seamless maps depicting geological information provided by the United States Geological Survey (USGS).

USGS National Water Information System — **FED USGS**

The U.S. Geological Survey (USGS)'s National Water Information System (NWIS) is the nation's principal repository of water resources data. This database includes comprehensive information of well-construction details, time-series data for gage height, streamflow, groundwater level, and precipitation and water use data.

State Sources

Oil and Gas Pit Locations — **PITS**

The Colorado Oil and Gas Conservation Commission (COGCC) maintains this list of oil and gas pit

locations within Colorado. This data contains over 10,000 oil and gas related pit locations. The Colorado Department of Natural Resources (DNR) notes that data and information provided by the DNR is provided as is without warranty of any kind, and that DNR is not responsible and shall not be liable for damages of any kind arising out of the use of data or information provided herein.

Oil and Gas Wells **OGW**

A list of active and plugged wells - including active and expired well permits provided by Department of Natural Resources, Oil & Gas Conservation Commission.

Public Water Wells **WATER WELLS**

The statewide water wells data consists of water levels information for each well. The data was made available by Colorado Decision Supports System under the development and improvement by the Colorado Water Conservation Board (CWCB) and the Colorado Division of Water Resources (DWR). The well latitude and longitude information represents physical location of the wells.

Water Wells Permit Database **WATER WELLS**

Water wells application and permit database maintained by the Colorado Department of Natural Resources' Division of Water Resources. This database includes statewide well applications and permits issued by the department.

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APPENDIX C

REGULATORY RECORDS DOCUMENTATION AND LABORATORY ANALYSIS REPORT

Property Report for Account R0056945

Account

Account Number: R0056945
Parcel Number:131528201002
Tax Area: 003273
No. of Improvements: 0
Site Address: 0 OXFORD RD
Neighborhood: MOUNTAINS

Total Account Value

	Actual	Assessed
Total:	2000	580
Structure:	0	0
Land:	2000	580
X-Features:	0	0
MillLevy:	100.261	

Deeds

Deed#	Sale Date	Recorded	Sale Price
1459772	9/1/1994	9/1/1994	$75,000.00
96673	2/4/1971	2/4/1971	$4,600.00

Address: 0 OXFORD RD
Parcel Number: 131528201002
Zoning: A - Agricultural
Wind Load (Vult): 145
Ground Snow Load (lbs/sqft): 40

Land Use Department Permits and Dockets

LS-95-0018 LOT 8, BL.5, HILLCREST HEIGHTS, 1.95 AC. ADJ. OXFORD RD.

Survey Number: LS-95-0018
Survey Date:1/13/1995
Surveyor:William Stengel
Firm:Stengel, William J.
STRQ:
Description:LOT 8, BL.5, HILLCREST HEIGHTS, 1.95 AC. ADJ. OXFORD RD.

Property Report for Account R0056548

Property Address:0 CRESTHILL DR
City: UNINCORPORATED
Owner: COUNTY OF BOULDER
Parcel Number: 131528201006
Mailing Address: 5201 ST VRAIN RD BLDG 1
City, State, Zip: LONGMONT CO, 80503
Sec-Town-Range: 28 -2N -69
Subdivision: HILLCREST HEIGHTS - LGV
Jurisdiction: Unincorporated Boulder County
Legal Description:TRACT A HILLCREST HEIGHTS
Square Feet: 29,031
Acres: 0.67

Total Account Value

	Actual	Assessed
Total:	6500	1885
Structure:	0	0
Land:	6500	1885
X-Features:	0	0
MillLevy:	100.261	

Deeds

Deed#	Sale Date	Recorded	Sale Price
3348536	10/17/2013	10/18/2013	$50,000.00
3296275	3/12/2013	3/12/2013	$0.00
3213066	3/30/2012	3/30/2012	$0.00
3170066	4/12/2010	9/9/2011	$0.00
406940	8/11/1980	8/11/1980	$0.00

Zoning Report for Account R0056548

Address: 0 CRESTHILL DR
Parcel Number: 131528201006
Zoning: A - Agricultural
Wind Load (Vult): 145
Ground Snow Load (lbs/sqft): 40

Land Use Department Permits and Dockets

BLD-13-0095	Tract A of Hillcrest Heights is a BLOT. See subdivision plat recorded at #90755618

Floodplain Information
Address: 0 CRESTHILL DR
Parcel Number: 131528201006
Flood Zone: X
Floodway: No

Property Report for Account R0116821

Property Address:0 CRESTVIEW LN
City: UNINCORPORATED
Owner: COUNTY OF BOULDER
Parcel Number: 131528214021
Mailing Address: 5201 ST VRAIN RD BLDG 1
City, State, Zip: LONGMONT CO, 80503
Sec-Town-Range: 28 -2N -69
Subdivision: HILLCREST HEIGHTS REPLAT B - NI
Jurisdiction: Unincorporated Boulder County
Legal Description:OUTLOT C HILLCREST HTS REPLAT B CONSERVATION EASEMENT
Square Feet: 88,965
Acres: 2.04

Account
Account Number: R0116821
Parcel Number:131528214021
Tax Area: 003273
No. of Improvements: 0
Site Address: 0 CRESTVIEW LN
Neighborhood: MOUNTAINS

Total Account Value

	Actual	Assessed
Total:	14400	4176
Structure:	0	0
Land:	14400	4176
X-Features:	0	0
MillLevy:	100.261	

Deeds

Deed#	Sale Date	Recorded	Sale Price
1741463	10/23/1997	10/23/1997	$0.00
1339912	9/22/1993	9/22/1993	$0.00

Zoning Report for Account R0116821

Address: 0 CRESTVIEW LN
Parcel Number: 131528214021
Zoning: A - Agricultural
Wind Load (Vult): 145
Ground Snow Load (lbs/sqft): 40

Land Use Department Permits and Dockets

BP-97-0065	BIRD SHELTER(PUBLIC USE)
EP-96-0002	Exemption Plat to replat Hillcrest Heights, Replat B (Wildview) to allow household pets in residences and residential lots.
EP-93-0001	Rec# 01339912 Exemption Plat to Replat the northern portion of Hillcrest Heights Subdivision; with Vacation of road rights-of-way including: Meadow View Ln., Rangeview Crt., Lake Crt., Cresthill Ln., northern portions of Crestview Dr., Longview Dr.& Cresthill Dr.; with Vacation of portions of utility easements in Blocks 1-5 of Hillcrest Heights Subdivision.

Floodplain Report for Account R0116821

Floodplain Information

Address: 0 CRESTVIEW LN
Parcel Number: 131528214021
Flood Zone: X
Floodway: No

Property Report for Account R0116823

Today's Date: 3/17/2022

Property Address:0 CRESTVIEW LN
City: UNINCORPORATED
Owner: COUNTY OF BOULDER
Parcel Number: 131528214023
Mailing Address: 5201 ST VRAIN RD BLDG 1
City, State, Zip: LONGMONT CO, 80503

Sec-Town-Range: 28 -2N -69
Subdivision: HILLCREST HEIGHTS REPLAT B - NI
Jurisdiction: Unincorporated Boulder County
Legal Description:OUTLOT B HILLCREST HTS REPLAT B CONSERVATION EASEMENT
Square Feet: 646,357
Acres: 14.84

Assessment Report for Account R0116823

Account

Account Number: R0116823
Parcel Number:131528214023
Tax Area: 003273
No. of Improvements: 0
Site Address: 0 CRESTVIEW LN
Neighborhood: MOUNTAINS

Total Account Value

	Actual	Assessed
Total:	103400	29986
Structure:	0	0
Land:	103400	29986
X-Features:	0	0
MillLevy:	100.261	

Deeds

Deed#	Sale Date	Recorded	Sale Price
1741463	10/23/1997	10/23/1997	$0.00
1715807	7/21/1997	7/21/1997	$0.00
1339912	9/22/1993	9/22/1993	$0.00

Zoning Report for Account R0116823

Today's Date: 3/17/2022

Address: 0 CRESTVIEW LN
Parcel Number: 131528214023
Zoning: A - Agricultural
Wind Load (Vult): 145
Ground Snow Load (lbs/sqft): 40

Land Use Department Permits and Dockets

EP-96-0002	Exemption Plat to replat Hillcrest Heights, Replat B (Wildview) to allow household pets in residences and residential lots.
EP-93-0001	Rec# 01339912 Exemption Plat to Replat the northern portion of Hillcrest Heights Subdivision; with Vacation of road rights-of-way including: Meadow View Ln., Rangeview Crt., Lake Crt., Cresthill Ln., northern portions of Crestview Dr., Longview Dr.& Cresthill Dr.; with Vacation of portions of utility easements in Blocks 1-5 of Hillcrest Heights Subdivision.

Floodplain Information

Address: 0 CRESTVIEW LN
Parcel Number: 131528214023
Flood Zone: X
Floodway: No

Property Report for Account R0116800

Account

Account Number: R0116800
Parcel Number:131528213013
Tax Area: 003273
No. of Improvements: 0
Site Address: 7598 N 95TH ST
Neighborhood: MOUNTAINS

Total Account Value

	Actual	Assessed
Total:	116600	33814
Structure:	0	0
Land:	116600	33814
X-Features:	0	0
MillLevy:	100.261	

Deeds

Deed#	Sale Date	Recorded	Sale Price
1741463	10/23/1997	10/23/1997	$0.00
1339912	9/22/1993	9/22/1993	$0.00

Zoning Report for Account R0116800

Address: 7598 N 95TH ST
Parcel Number: 131528213013
Zoning: A - Agricultural
Wind Load (Vult): 145
Ground Snow Load (lbs/sqft): 40

Land Use Department Permits and Dockets

BP-19-2641	Modifications to Lift Station
EP-96-0002	Exemption Plat to replat Hillcrest Heights, Replat B (Wildview) to allow household pets in residences and residential lots.
BP-94-0092	SERVICE FOR LIFT STATION
BP-93-2295	Lift station for sanitary sewer.
EP-93-0001	Rec# 01339912 Exemption Plat to Replat the northern portion of Hillcrest Heights Subdivision; with Vacation of road rights-of-way including: Meadow View Ln., Rangeview Crt., Lake Crt., Cresthill Ln., northern portions of Crestview Dr., Longview Dr.& Cresthill Dr.; with Vacation of portions of utility easements in Blocks 1-5 of Hillcrest Heights Subdivision.
SU-93-0004	Special Use for utility substation for lift station to serve Hillcrest Heights Subdivision and Mountain View Estates NUPUD.

Floodplain Information

Address: 7598 N 95TH ST
Parcel Number: 131528213013
Flood Zone: X
Floodway: No

Property Report for Account R0116822

Property Address:0 CRESTVIEW LN
City: UNINCORPORATED
Owner: COUNTY OF BOULDER
Parcel Number: 131528214022
Mailing Address: 5201 ST VRAIN RD BLDG 1
City, State, Zip: LONGMONT CO, 80503

Sec-Town-Range: 28 -2N -69
Subdivision: HILLCREST HEIGHTS REPLAT B - NI
Jurisdiction: Unincorporated Boulder County
Legal Description:OUTLOT A HILLCREST HTS REPLAT B CONSERVATION EASEMENT
Square Feet: 349,065
Acres: 8.01

Account

Account Number: R0116822
Parcel Number:131528214022
Tax Area: 003273
No. of Improvements: 0
Site Address: 0 CRESTVIEW LN
Neighborhood: MOUNTAINS

Total Account Value

	Actual	Assessed
Total:	119100	34539
Structure:	0	0
Land:	119100	34539
X-Features:	0	0
MillLevy:	100.261	

Deeds

Deed#	Sale Date	Recorded	Sale Price
1741463	10/23/1997	10/23/1997	$0.00
1339912	9/22/1993	9/22/1993	$0.00

Zoning Report for Account R0116822

Address: 0 CRESTVIEW LN
Parcel Number: 131528214022
Zoning: A - Agricultural
Wind Load (Vult): 145
Ground Snow Load (lbs/sqft): 40

Land Use Department Permits and Dockets

EP-96-0002	Exemption Plat to replat Hillcrest Heights, Replat B (Wildview) to allow household pets in residences and residential lots.

Floodplain Information

Address: 0 CRESTVIEW LN
Parcel Number: 131528214022
Flood Zone: X
Floodway: No

FIRST AMERICAN TITLE INSURANCE COMPANY

OWNER'S POLICY

SCHEDULE A

gt-KB3914-12/31/97 10:15:31

Order No. ZO26334A97 **Policy No.** J311066

Amount of Insurance $18,200.00 ✓ **Premium** $197.00

Date of Policy: October 24, 1997 at 8:00 A.M.

CS 10/17/97

1. Name of Insured:

✓County of Boulder, a body corporate and politic

2. The estate or interest in the land which is covered by this policy is:

✓ FEE SIMPLE

3. Title to the estate or interest in the land is vested in:

✓County of Boulder, a body corporate and politic

4. The land referred to in this policy is described as follows:

Outlots A, B, C and D,
Hillcrest Heights Replat B,
County of Boulder,
State of Colorado.

OK

FIRST AMERICAN TITLE INSURANCE COMPANY

SCHEDULE B

Order No. ZO26334A97 **Policy No.** J311066

EXCEPTIONS FROM COVERAGE

This policy does not insure against loss or damage (and the Company will not pay costs, attorneys' fees or expenses) which arise by reason of:

1. Taxes and Assessments not certified to the Treasurer's Office.
2. Any facts, rights, interests or claims which are not shown by the public records but which could be ascertained by an inspection of the land or by making inquiry of persons in possession thereof.
3. Easements, or claims of easements, not shown by the public records.
4. Discrepancies, conflicts in boundary lines, shortage in area, encroachments, and any facts which a correct survey and inspection of the land would disclose, and which are not shown by the public records.
5. Any lien, or right to a lien, for services, labor or material heretofore or hereafter furnished, imposed by law and not shown by the public records.
6. Any and all unpaid taxes, assessments and unredeemed tax sales.
7. The effect of map for the Standley and Gaynor Reservoir, filed for record in Ditch Map Book B at Page 39.
8. Subject to rights of way for public roads, ditches, laterals, canals, reservoirs, railroads and construction of poles and fixtures for operation and maintenance of electric power, as reserved in deed recorded April 5, 1919 in Book 426 at Page 163.
9. An undivided 1/2 interest in all oil, gas and other minerals as reserved by David Laber recorded September 21, 1959 in Book 1122 at Page 595, and any and all assignments thereof or interests therein.
10. Notice of statutory lien by the Niwot Sanitation District, creating a perpetual lien, recorded November 4, 1988 on Film No. 1553 at Reception No. 00951494.
11. Road maintenance agreements recorded September 6, 1984 on Film No. 1320 at Reception No. 00644599 and April 12, 1985 on Film 1349 at Reception No. 00682402.
12. Inclusion of the land within the Northern Colorado Water Conservancy District, the Longmont Soil Conservation District and the Longmont Fire Protection District as disclosed by instrument recorded May 21, 1963 in Book 1281 at Page 28.
13. Terms, conditions, provisions, agreements and obligations specified under the Resolution 93-41 by and between Lesley J. Murakami and Board of County

-Continued-

SCHEDULE B continued

Order No. ZO26334A97 **Policy No.** J311066

Commissioners of Boulder County recorded September 22, 1993 on Film 1877 at Reception No. 01339915.

14. Terms, conditions, provisions and restrictions contained on the Plat of Hillcrest Heights Replat B.

15. Terms, conditions and provisions contained in Ditch Easement Agreement recorded September 9, 1993 on Film 1872 at Reception No. 01335395.

16. Any water rights or claims or title to water, in, on or under the land.

17. Covenants, conditions and restrictions, which do not include a forfeiture or reverter clause.

NOTE: Exceptions numbered 1-5 are HEREBY DELETED.

The results set forth herein are provided by SGS North America Inc.

e-Hardcopy 2.0
Automated Report

Technical Report for

Apex Consulting Services

Little Gaynar Lake

SGS Job Number: DA42612

Sampling Date: 03/08/22

Report to:

Apex Consulting Services
P.O. Box 369
Louisville, CO 80027-0369
mhattel@msn.com

ATTN: Mike Hattel

Total number of pages in report: 25

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Program and/or state specific certification programs as applicable.

Jason Savoie
General Manager

Client Service contact: John Barnhill 303-425-6021

Certifications: CO (CO00049), NE (NE-OS-06-04), ND (R-027), UT (NELAP CO00049) LA (LA150028), TX (T104704511), WY (8TMS-L), HI (CO00049), NJ (CO011)

Sections:

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Sample Summary

Apex Consulting Services

Job No: DA42612

Little Gaynar Lake

Sample Number	Collected Date	Time	By	Received	Matrix Code	Matrix Type	Client Sample ID
This report contains results reported as ND = Not detected. The following applies: Organics ND = Not detected above the MDL							
DA42612-1	03/08/22	08:15	MH	03/08/22	SO	Soil	LGL-1
DA42612-2	03/08/22	08:30	MH	03/08/22	SO	Soil	LGL-2

Soil samples reported on a dry weight basis unless otherwise indicated on result page.

CASE NARRATIVE / CONFORMANCE SUMMARY

Client:	Apex Consulting Services	**Job No:**	DA42612
Site:	Little Gaynar Lake	**Report Date**	3/21/2022 3:02:04 PM

On 03/08/2022, 2 sample(s), 0 Trip Blank(s), and 0 Field Blank(s) were received at SGS North America Inc. (SGS) at a temperature of 3 °C. The samples were intact and properly preserved, unless noted below. An SGS Job Number of DA42612 was assigned to the project. The lab sample ID, client sample ID, and date of sample collection are detailed in the report's Results Summary.

Specified quality control criteria were achieved for this job except as noted below. For more information, please refer to the analytical results and QC summary pages.

GC/LC Semi-volatiles By Method SW846 8081B

Matrix: SO **Batch ID:** F:OP90225

- The data for SW846 8081B meets quality control requirements.
- DA42612-1: Analysis performed at SGS Orlando, FL.
- DA42612-2: Analysis performed at SGS Orlando, FL.
- DA42612-1 for 4,4'-DDT: Associated CCV outside of control limits high, sample was ND.
- DA42612-2 for 4,4'-DDT: Associated CCV outside of control limits high, sample was ND.

GC/LC Semi-volatiles By Method SW846 8151A

Matrix: SO **Batch ID:** F:OP90226

- The data for SW846 8151A meets quality control requirements.
- DA42612-1: Analysis performed at SGS Orlando, FL.
- DA42612-2: Analysis performed at SGS Orlando, FL.
- DA42612-1 for Pentachlorophenol: Associated CCV outside of control limits high, sample was ND.
- DA42612-2 for Pentachlorophenol: Associated CCV outside of control limits high, sample was ND.

General Chemistry By Method SM2540G-2011 M

Matrix: SO **Batch ID:** GN55690

- Sample(s) DA42636-9DUP were used as the QC samples for the Solids, Percent analysis.

SGS certifies that data reported for samples received, listed on the associated custody chain or analytical task order, were produced to specifications meeting SGS's Quality System precision, accuracy and completeness objectives except as noted.

Estimated non-standard method measurement uncertainty data is available on request, based on quality control bias and implicit for standard methods. Acceptable uncertainty requires tested parameter quality control data to meet method criteria.

SGS is not responsible for data quality assumptions if partial reports are used and recommends that this report be used in its entirety. This report is authorized by SGS indicated via signature on the report cover.

SAMPLE DELIVERY GROUP CASE NARRATIVE

Client: SGS Wheat Ridge, CO **Job No:** DA42612

Site: APEXCCOL: Little Gaynar Lake **Report Date** 3/20/2022 12:46:56

On 03/08/2022, 2 Sample(s), 0 Trip Blank(s) and 0 Field Blank(s) were received at SGS North America Inc - Orlando. at a maximum corrected temperature of 5 C. Samples were intact and chemically preserved, unless noted below. A SGS North America Inc. - Orlando Job Number of DA42612 was assigned to the project. Laboratory sample ID, client sample ID and dates of sample collection are detailed in the report's Results Summary Section. Specified quality control criteria were achieved for this job except as noted below. For more information, please refer to the analytical results and QC summary pages.

GC/LC Semi-volatiles By Method SW846 8081B

Matrix: SO **Batch ID:** OP90225

Sample(s) DA42612-1MS, DA42612-1MSD were used as the QC samples indicated.

DA42612-1 for 4,4'-DDT: Associated CCV outside of control limits high, sample was ND.

DA42612-1 for Methoxychlor: Associated CCV outside of control limits high, sample was ND.

DA42612-2 for 4,4'-DDT: Associated CCV outside of control limits high, sample was ND.

DA42612-2 for Methoxychlor: Associated CCV outside of control limits high, sample was ND.

GC/LC Semi-volatiles By Method SW846 8151A

Matrix: SO **Batch ID:** OP90226

Sample(s) DA42612-2MS, DA42612-2MSD were used as the QC samples indicated.

Matrix Spike Duplicate Recovery(s) for MCPA are outside control limits. Probable cause is due to matrix interference.

RPD(s) for MSD for Dinoseb are outside control limits for sample OP90226-MSD. Probable cause is due to sample non-homogeneity.

DA42612-1 for Pentachlorophenol: Associated CCV outside of control limits high, sample was ND.

DA42612-2 for Pentachlorophenol: Associated CCV outside of control limits high, sample was ND.

SGS North America Inc. - Orlando certifies that data reported for samples received, listed on the associated custody chain or analytical task order, were produced to specifications meeting the Quality System precision, accuracy and completeness objectives except as noted. Estimated non-standard method measurement uncertainty data is available on request, based on quality control bias and implicit for standard methods. Acceptable uncertainty requires tested parameter quality control data to meet method criteria. SGS North America Inc.- Orlando is not responsible for data quality assumptions if partial reports are used and recommends that this report be used in its entirety.

Narrative prepared by:

_____

Ariel Hartney, Client Services (signature on file)

Summary of Hits

Job Number: DA42612
Account: Apex Consulting Services
Project: Little Gaynar Lake
Collected: 03/08/22

Lab Sample ID Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
DA42612-1	**LGL-1**					
No hits reported in this sample.						
DA42612-2	**LGL-2**					
No hits reported in this sample.						

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	LGL-1		
Lab Sample ID:	DA42612-1	**Date Sampled:**	03/08/22
Matrix:	SO - Soil	**Date Received:**	03/08/22
Method:	SW846 8151A SW846 3546	**Percent Solids:**	69.8
Project:	Little Gaynar Lake		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	CC081126.D	1	03/16/22 11:14	AFL	03/14/22 10:00	F:OP90226	F:GCC2048
Run #2							

	Initial Weight	Final Volume
Run #1	15.1 g	5.0 ml
Run #2		

Herbicide List

CAS No.	Compound	Result	RL	MDL	Units	Q
94-75-7	2,4-D	ND	47	12	ug/kg	
93-72-1	2,4,5-TP (Silvex)	ND	4.7	1.3	ug/kg	
93-76-5	2,4,5-T	ND	4.7	1.2	ug/kg	
1918-00-9	Dicamba	ND	4.7	1.1	ug/kg	
88-85-7	Dinoseb	ND	120	24	ug/kg	
75-99-0	Dalapon	ND	240	47	ug/kg	
120-36-5	Dichloroprop	ND	47	12	ug/kg	
94-82-6	2,4-DB	ND	47	12	ug/kg	
93-65-2	MCPP	ND	4700	1200	ug/kg	
94-74-6	MCPA	ND	4700	2300	ug/kg	
87-86-5	Pentachlorophenol [b]	ND	4.7	1.0	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
19719-28-9	2,4-DCAA	74%		31-132%

(a) Analysis performed at SGS Orlando, FL.
(b) Associated CCV outside of control limits high, sample was ND.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: LGL-1
Lab Sample ID: DA42612-1
Matrix: SO - Soil
Method: SW846 8081B SW846 3546
Project: Little Gaynar Lake

Date Sampled: 03/08/22
Date Received: 03/08/22
Percent Solids: 69.8

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	ST160299.D	1	03/15/22 23:57	AFL	03/14/22 08:00	F:OP90225	F:GST3901
Run #2							

	Initial Weight	Final Volume
Run #1	15.2 g	5.0 ml
Run #2		

Pesticide PPL List

CAS No.	Compound	Result	RL	MDL	Units	Q
309-00-2	Aldrin	ND	2.4	0.74	ug/kg	
319-84-6	alpha-BHC	ND	2.4	0.74	ug/kg	
319-85-7	beta-BHC	ND	2.4	0.69	ug/kg	
319-86-8	delta-BHC	ND	2.4	0.67	ug/kg	
58-89-9	gamma-BHC (Lindane)	ND	2.4	0.71	ug/kg	
12789-03-6	Chlordane	ND	24	7.2	ug/kg	
60-57-1	Dieldrin	ND	2.4	0.66	ug/kg	
72-54-8	4,4'-DDD	ND	4.7	0.65	ug/kg	
72-55-9	4,4'-DDE	ND	4.7	0.86	ug/kg	
50-29-3	4,4'-DDT [b]	ND	4.7	0.72	ug/kg	
72-20-8	Endrin	ND	4.7	1.2	ug/kg	
1031-07-8	Endosulfan sulfate	ND	4.7	0.62	ug/kg	
7421-93-4	Endrin aldehyde	ND	4.7	0.55	ug/kg	
959-98-8	Endosulfan-I	ND	2.4	0.54	ug/kg	
33213-65-9	Endosulfan-II	ND	2.4	0.56	ug/kg	
76-44-8	Heptachlor	ND	2.4	0.70	ug/kg	
1024-57-3	Heptachlor epoxide	ND	2.4	0.69	ug/kg	
72-43-5	Methoxychlor [b]	ND	4.7	0.94	ug/kg	
8001-35-2	Toxaphene	ND	120	35	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	86%		50-122%
2051-24-3	Decachlorobiphenyl	111%		50-133%

(a) Analysis performed at SGS Orlando, FL.
(b) Associated CCV outside of control limits high, sample was ND.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	LGL-2		
Lab Sample ID:	DA42612-2	**Date Sampled:**	03/08/22
Matrix:	SO - Soil	**Date Received:**	03/08/22
Method:	SW846 8151A SW846 3546	**Percent Solids:**	48.4
Project:	Little Gaynar Lake		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	CC081127.D	1	03/16/22 11:29	AFL	03/14/22 10:00	F:OP90226	F:GCC2048
Run #2							

	Initial Weight	Final Volume
Run #1	15.1 g	5.0 ml
Run #2		

Herbicide List

CAS No.	Compound	Result	RL	MDL	Units	Q
94-75-7	2,4-D	ND	68	18	ug/kg	
93-72-1	2,4,5-TP (Silvex)	ND	6.8	1.9	ug/kg	
93-76-5	2,4,5-T	ND	6.8	1.8	ug/kg	
1918-00-9	Dicamba	ND	6.8	1.6	ug/kg	
88-85-7	Dinoseb	ND	170	34	ug/kg	
75-99-0	Dalapon	ND	340	68	ug/kg	
120-36-5	Dichloroprop	ND	68	17	ug/kg	
94-82-6	2,4-DB	ND	68	18	ug/kg	
93-65-2	MCPP	ND	6800	1800	ug/kg	
94-74-6	MCPA	ND	6800	3300	ug/kg	
87-86-5	Pentachlorophenol [b]	ND	6.8	1.4	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
19719-28-9	2,4-DCAA	66%		31-132%

(a) Analysis performed at SGS Orlando, FL.
(b) Associated CCV outside of control limits high, sample was ND.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: LGL-2
Lab Sample ID: DA42612-2
Matrix: SO - Soil
Method: SW846 8081B SW846 3546
Project: Little Gaynar Lake

Date Sampled: 03/08/22
Date Received: 03/08/22
Percent Solids: 48.4

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	ST160300.D	1	03/16/22 00:13	AFL	03/14/22 08:00	F:OP90225	F:GST3901
Run #2							

	Initial Weight	Final Volume
Run #1	15.0 g	5.0 ml
Run #2		

Pesticide PPL List

CAS No.	Compound	Result	RL	MDL	Units	Q
309-00-2	Aldrin	ND	3.4	1.1	ug/kg	
319-84-6	alpha-BHC	ND	3.4	1.1	ug/kg	
319-85-7	beta-BHC	ND	3.4	1.0	ug/kg	
319-86-8	delta-BHC	ND	3.4	0.98	ug/kg	
58-89-9	gamma-BHC (Lindane)	ND	3.4	1.0	ug/kg	
12789-03-6	Chlordane	ND	34	10	ug/kg	
60-57-1	Dieldrin	ND	3.4	0.96	ug/kg	
72-54-8	4,4'-DDD	ND	6.9	0.95	ug/kg	
72-55-9	4,4'-DDE	ND	6.9	1.3	ug/kg	
50-29-3	4,4'-DDT [b]	ND	6.9	1.1	ug/kg	
72-20-8	Endrin	ND	6.9	1.7	ug/kg	
1031-07-8	Endosulfan sulfate	ND	6.9	0.91	ug/kg	
7421-93-4	Endrin aldehyde	ND	6.9	0.80	ug/kg	
959-98-8	Endosulfan-I	ND	3.4	0.79	ug/kg	
33213-65-9	Endosulfan-II	ND	3.4	0.81	ug/kg	
76-44-8	Heptachlor	ND	3.4	1.0	ug/kg	
1024-57-3	Heptachlor epoxide	ND	3.4	1.0	ug/kg	
72-43-5	Methoxychlor [b]	ND	6.9	1.4	ug/kg	
8001-35-2	Toxaphene	ND	170	52	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	90%		50-122%
2051-24-3	Decachlorobiphenyl	112%		50-133%

(a) Analysis performed at SGS Orlando, FL.
(b) Associated CCV outside of control limits high, sample was ND.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody

SGS

CHAIN OF CUSTODY

SGS North America Inc. - Wheat Ridge
4036 Youngfield Street, Wheat Ridge, CO 80033
TEL: 303-425-6021 FAX: 303-425-6854
www.sgs.com/ehsusa

Page 1 of 1

Bottle Order Control #: | FED-EX Tracking #:
SGS Quote #: | SGS Job #: DA42612

Client / Reporting Information
Company: Anexcecontini Services
Street: Box 369
City, State ZIP: Louisville, CO 80027-0369
Project Contact: Mike Hattel
Phone: 303-665-1400
Email: mhattel@msn.com
Sampler(s) Name(s):

Project Information
Project Name: Little Gaynor Lake
Street: Oxford
City, State ZIP:
Project #:
Client Purchase Order #:
Project Manager:

Billing Information (if different from Report to)
Company: SAME
Street Address:
City, State ZIP:
Attention:

Requested Analysis (see TEST CODE sheet): Herbicides, Pesticides

Field ID / Point of Collection	Date	Time	Sampled by	Matrix	# of bottles	NONE	HCl	NaOH	HNO3	H2SO4	DI Water	MEOH	ENCORE	Na2S2O3	Na2SO3	Ice	Herbicides	Pesticides	LAB USE ONLY
LGL-1	3/8/22	815	MA	S	3	X										X	X	X	01
LGL-2	↓	830	MA	S	3	X										X	X	X	02

Matrix Codes: DW - Drinking Water; GW - Ground Water; WW - Water; SW - Surface Water; SO - Soil; SL - Sludge; SED - Sediment; OI - Oil; LIQ - Other Liquid; AIR - Air; SOL - Other Solid; WP - Wipe; FB - Field Blank; EB - Equipment Blank; RB - Rinse Blank; TB - Trip Blank

Turnaround Time (Business days)
- [x] Standard 10 Business Days
- [ ] 5 Business Days RUSH
- [ ] 3 Business Days RUSH
- [ ] 2 Business Days RUSH
- [ ] 1 Business Day EMERGENCY

Emergency & Rush T/A data available via LabLink. RUSH TAT approval needed.

Special Reporting Instructions
- [ ] Report in PPB
- [ ] Report in PPM
- [ ] Report MDLs

Data Deliverable Information
- [ ] Commercial "A" (Level 1, Results Only)
- [x] Commercial "B" (Level 2, Results + QC Summary)
- [ ] COMMBN (Results/QC/Narrative)
- [ ] COMMBN+ [Results/QC/Narrative (+ chromatograms)]
- [ ] REDT2
- [ ] FULT1
- [ ] EDD Format ____

Comments / Special Instructions

Sample Custody must be documented below each time samples change possession, including courier delivery.

Relinquished by Sampler:	Date/Time:	Received By:	Relinquished By:	Date/Time:	Received By:
(signature)	3-8-22 1400	1 (signature)	2		2
Relinquished by Sampler: 3	Date/Time:	Received By: 3	Relinquished By: 4	Date/Time:	Received By: 4

Custody Seal #: Intact [x] Not Intact [ ] Absent [ ] | Preserved where applicable [x] HQ | Cooler Temp. °C: 3.0 | Therm. ID: 1186 | On Ice [x]

http://www.sgs.com/en/terms-and-conditions

EHSA-QAC-0027-00-FORM-Wheat Ridge - DW COC; Rev. Date: 4/10/18

DA42612: Chain of Custody
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SGS Sample Receipt Summary

Job Number: DA42612 **Client:** APEX CONSULTING SERVICES **Project:** LITTLE GAYNER LAKE

Date / Time Received: 3/8/2022 2:00:00 PM **Delivery Method:** **Airbill #'s:** HD

Cooler Temps (Initial/Adjusted):

Cooler Security	Y	or	N		Y	or	N
1. Custody Seals Present:	☑		☐	3. COC Present:	☑		☐
2. Custody Seals Intact:	☑		☐	4. Smpl Dates/Time OK	☑		☐

Cooler Temperature	Y	or	N
1. Temp criteria achieved:	☑		☐
2. Cooler temp verification:			
3. Cooler media:			
4. No. Coolers:	0		

Quality Control Preservation	Y	or	N	N/A
1. Trip Blank present / cooler:	☐		☐	☑
2. Trip Blank listed on COC:	☐		☐	☑
3. Samples preserved properly:	☑		☐	
4. VOCs headspace free:	☐		☐	☑

Comments

Sample Integrity - Documentation	Y	or	N
1. Sample labels present on bottles:	☑		☐
2. Container labeling complete:	☑		☐
3. Sample container label / COC agree:	☑		☐

Sample Integrity - Condition	Y	or	N
1. Sample recvd within HT:	☑		☐
2. All containers accounted for:	☑		☐
3. Condition of sample:	Intact		

Sample Integrity - Instructions	Y	or	N	N/A
1. Analysis requested is clear:	☑		☐	
2. Bottles received for unspecified tests	☐		☑	
3. Sufficient volume recvd for analysis:	☑		☐	
4. Compositing instructions clear:	☐		☐	☑
5. Filtering instructions clear:	☐		☐	☑

DA42612: Chain of Custody
Page 2 of 2

Misc. Forms

Custody Documents and Other Forms

(SGS Orlando, FL)

Includes the following where applicable:

- Chain of Custody

CHAIN OF CUSTODY

SGS North America Inc. - Wheat Ridge
4036 Youngfield Street, Wheat Ridge, CO 80033
TEL: 303-425-6021 FAX: 303-425-6854
www.sgs.com/ehsusa

FED-EX Tracking #: | Bottle Order Control #:
SGS Quote #: | SGS Job #: DA42612

Client / Reporting Information

Company Name: SGS North America Inc.
Street Address: 4036 Youngfield Street
City: Wheat Ridge, State: CO, Zip: 8003:
Project Contact: jeremy.dechant@sgs.com, E-mail:
Phone #: 303-425-6021, Fax #:
Sampler(s) Name(s): MH, Phone:

Project Information

Project Name: Little Gaynar Lake
Street:
City: State:
Project #:
Client Purchase Order #:
Project Manager:

Billing Information (if different from Report to)

Company Name:
Street Address:
City: State: Zip:
Attention:

Requested Analysis (see TEST CODE sheet)

Matrix Codes: DW - Drinking Water; GW - Ground Water; WW - Water; SW - Surface Water; SO - Soil; SL- Sludge; SED-Sediment; OI - Oil; LIQ - Other Liquid; AIR - Air; SOL - Other Solid; WP - Wipe; FB-Field Blank; EB-Equipment Blank; RB- Rinse Blank; TB-Trip Blank

SGS Sample #	Field ID / Point of Collection	MEOH/DI Vial #	Collection Date	Collection Time	Sampled by	Matrix	# of bottles	HCl	NaOH	HNO3	H2SO4	NONE	DI Water	MEOH	ENCORE	I-8151FL, P8081PESTPPL,	LAB USE ONLY
1	LGL-1		3/8/22	8:15:00 AM	MH	SO										X	
2	LGL-2		3/8/22	8:30:00 AM	MH	SO										X	

INITIAL ASSESSMENT SM
LABEL VERIFICATION
4.6°C 1R#1

Turnaround Time (Business days)

Approved By (SGS PM): / Date:

- [ ] Standard 10 Day (business)
- [ ] 5 Business Days RUSH
- [ ] 3 Business Days RUSH
- [ ] 2 Business Days RUSH
- [ ] 1 Business Day EMERGENCY
- [X] other Due 3/15/2022

Emergency & Rush T/A data available via Lablink Approval needed for RUSH/Emergency TAT

Data Deliverable Information

- [ ] Commercial "A" (Level 1)
- [ ] Commercial "B" (Level 2)
- [ ] REDT1 (Level 3)
- [ ] FULT1 (Level 4)
- [ ] Commercial "C"
- [ ] State Forms
- [ ] EDD Format
- [ ] Other
- [X] CC

Commercial "A" = Results Only
Commercial "B" = Results + QC Summary
Commercial "C" = Results + QC Summary + Partial Raw data

Comments / Special Instructions

http://www.sgs.com/en/terms-and-conditions

Sample Custody must be documented below each time samples change possession, including courier delivery.

Relinquished by Sampler:	Date Time:	Received By:	Relinquished By:	Date Time:	Received By:
1	3-9-22	1	2	3/11/22	2
3		3	4	9:20	4
5		5	Custody Seal #	Intact / Not intact	Preserved where applicable / Therm. ID: / On Ice / Cooler Temp.

6.1
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DA42612: Chain of Custody
Page 1 of 2
SGS Orlando, FL

SGS Sample Receipt Summary

Job Number: DA42612 **Client:** SGS CO **Project:** LITTLE GAYNAR LAKE

Date / Time Received: 3/11/2022 9:30:00 AM **Delivery Method:** FX **Airbill #'s:** 52904114126

Therm ID: IR 1; **Therm CF:** 0.4; **# of Coolers:** 1

Cooler Temps (Raw Measured) °C: Cooler 1: (4.6);

Cooler Temps (Corrected) °C: Cooler 1: (5.0);

Cooler Information	Y	N
1. Custody Seals Present	☑	☐
2. Custody Seals Intact	☑	☐
3. Temp criteria achieved	☑	☐
4. Cooler temp verification	IR Gun	
5. Cooler media	Ice (Bag)	

Trip Blank Information	Y	N	N/A
1. Trip Blank present / cooler	☐	☐	☑
2. Trip Blank listed on COC	☐	☐	☑

	W	S	N/A
3. Type Of TB Received	☐	☐	☑

Sample Information	Y	N	N/A
1. Sample labels present on bottles	☑	☐	
2. Samples preserved properly	☑	☐	
3. Sufficient volume/containers recvd for analysis:	☑	☐	
4. Condition of sample	Intact		
5. Sample recvd within HT	☑	☐	
6. Dates/Times/IDs on COC match Sample Label	☑	☐	
7. VOCs have headspace	☐	☐	☑
8. Bottles received for unspecified tests	☐	☑	
9. Compositing instructions clear	☐	☐	☑
10. Voa Soil Kits/Jars received past 48hrs?	☐	☐	☑
11. % Solids Jar received?	☐	☐	☑
12. Residual Chlorine Present?	☐	☐	☑

Misc. Information

Number of Encores: 25-Gram _____ 5-Gram _____ Number of 5035 Field Kits: _____ Number of Lab Filtered Metals: _____

Test Strip Lot #s: pH 0-3 230315 pH 10-12 219813A Other: (Specify) _____ _____

Residual Chlorine Test Strip Lot #: _____

Comments

SM001
Rev. Date 05/24/17

Technician: NATHANS Date: 3/11/2022 9:30:00 AM Reviewer: _____ Date: _____

6.1

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DA42612: Chain of Custody
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GC/LC Semi-volatiles

QC Data Summaries

(SGS Orlando, FL)

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries

Method Blank Summary

Job Number: DA42612
Account: ALMS SGS Wheat Ridge, CO
Project: APEXCCOL: Little Gaynar Lake

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP90226-MB	CC081122.D	1	03/16/22	AF	03/14/22	OP90226	GCC2048

The QC reported here applies to the following samples: **Method:** SW846 8151A

DA42612-1, DA42612-2

CAS No.	Compound	Result	RL	MDL	Units	Q
94-75-7	2,4-D	ND	33	8.5	ug/kg	
93-72-1	2,4,5-TP (Silvex)	ND	3.3	0.94	ug/kg	
93-76-5	2,4,5-T	ND	3.3	0.86	ug/kg	
1918-00-9	Dicamba	ND	3.3	0.78	ug/kg	
88-85-7	Dinoseb	ND	83	17	ug/kg	
75-99-0	Dalapon	ND	170	33	ug/kg	
120-36-5	Dichloroprop	ND	33	8.3	ug/kg	
94-82-6	2,4-DB	ND	33	8.6	ug/kg	
93-65-2	MCPP	ND	3300	850	ug/kg	
94-74-6	MCPA	ND	3300	1600	ug/kg	
87-86-5	Pentachlorophenol	ND	3.3	0.70	ug/kg	

CAS No.	Surrogate Recoveries		Limits
19719-28-9	2,4-DCAA	75%	31-132%

Method Blank Summary

Job Number: DA42612
Account: ALMS SGS Wheat Ridge, CO
Project: APEXCCOL: Little Gaynar Lake

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP90225-MB	ST160298.D	1	03/15/22	WH	03/14/22	OP90225	GST3901

The QC reported here applies to the following samples: **Method:** SW846 8081B

DA42612-1, DA42612-2

CAS No.	Compound	Result	RL	MDL	Units	Q
309-00-2	Aldrin	ND	1.7	0.53	ug/kg	
319-84-6	alpha-BHC	ND	1.7	0.53	ug/kg	
319-85-7	beta-BHC	ND	1.7	0.49	ug/kg	
319-86-8	delta-BHC	ND	1.7	0.47	ug/kg	
58-89-9	gamma-BHC (Lindane)	ND	1.7	0.50	ug/kg	
12789-03-6	Chlordane	ND	17	5.1	ug/kg	
60-57-1	Dieldrin	ND	1.7	0.47	ug/kg	
72-54-8	4,4'-DDD	ND	3.3	0.46	ug/kg	
72-55-9	4,4'-DDE	ND	3.3	0.61	ug/kg	
50-29-3	4,4'-DDT	ND	3.3	0.51	ug/kg	
72-20-8	Endrin	ND	3.3	0.84	ug/kg	
1031-07-8	Endosulfan sulfate	ND	3.3	0.44	ug/kg	
7421-93-4	Endrin aldehyde	ND	3.3	0.39	ug/kg	
959-98-8	Endosulfan-I	ND	1.7	0.38	ug/kg	
33213-65-9	Endosulfan-II	ND	1.7	0.39	ug/kg	
76-44-8	Heptachlor	ND	1.7	0.49	ug/kg	
1024-57-3	Heptachlor epoxide	ND	1.7	0.49	ug/kg	
72-43-5	Methoxychlor	ND	3.3	0.67	ug/kg	
8001-35-2	Toxaphene	ND	83	25	ug/kg	

CAS No.	Surrogate Recoveries		Limits
877-09-8	Tetrachloro-m-xylene	79%	50-122%
2051-24-3	Decachlorobiphenyl	101%	50-133%

Blank Spike Summary

Job Number: DA42612
Account: ALMS SGS Wheat Ridge, CO
Project: APEXCCOL: Little Gaynar Lake

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP90226-BS	CC081123.D	1	03/16/22	AF	03/14/22	OP90226	GCC2048

The QC reported here applies to the following samples: **Method:** SW846 8151A

DA42612-1, DA42612-2

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	Limits
94-75-7	2,4-D	167	152	91	43-124
93-72-1	2,4,5-TP (Silvex)	16.7	12.2	73	41-130
93-76-5	2,4,5-T	16.7	13.2	79	40-124
1918-00-9	Dicamba	16.7	14.0	84	32-129
88-85-7	Dinoseb	83.3	67.3	81	10-124
75-99-0	Dalapon	417	206	49	10-133
120-36-5	Dichloroprop	167	145	87	51-145
94-82-6	2,4-DB	167	144	86	42-130
93-65-2	MCPP	16700	14900	89	34-130
94-74-6	MCPA	16700	13800	83	37-124
87-86-5	Pentachlorophenol	16.7	12.0	72	45-126

CAS No.	Surrogate Recoveries	BSP	Limits
19719-28-9	2,4-DCAA	68%	31-132%

* = Outside of Control Limits.

Blank Spike Summary

Job Number: DA42612
Account: ALMS SGS Wheat Ridge, CO
Project: APEXCCOL: Little Gaynar Lake

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP90225-BS	ST160296.D	1	03/15/22	WH	03/14/22	OP90225	GST3901

The QC reported here applies to the following samples: **Method:** SW846 8081B

DA42612-1, DA42612-2

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	Limits
309-00-2	Aldrin	16.7	13.6	82	57-120
319-84-6	alpha-BHC	16.7	14.4	86	60-117
319-85-7	beta-BHC	16.7	14.7	88	57-125
319-86-8	delta-BHC	16.7	12.4	74	42-126
58-89-9	gamma-BHC (Lindane)	16.7	14.3	86	60-123
60-57-1	Dieldrin	16.7	14.9	89	63-125
72-54-8	4,4'-DDD	16.7	15.2	91	55-135
72-55-9	4,4'-DDE	16.7	15.2	91	61-129
50-29-3	4,4'-DDT	16.7	19.6	118	60-136
72-20-8	Endrin	16.7	16.3	98	67-138
1031-07-8	Endosulfan sulfate	16.7	15.8	95	59-119
7421-93-4	Endrin aldehyde	16.7	16.2	97	37-110
959-98-8	Endosulfan-I	16.7	13.5	81	62-122
33213-65-9	Endosulfan-II	16.7	14.6	88	62-122
76-44-8	Heptachlor	16.7	17.5	105	58-123
1024-57-3	Heptachlor epoxide	16.7	14.1	85	60-122
72-43-5	Methoxychlor	16.7	19.3	116	57-133

CAS No.	Surrogate Recoveries	BSP	Limits
877-09-8	Tetrachloro-m-xylene	82%	50-122%
2051-24-3	Decachlorobiphenyl	106%	50-133%

* = Outside of Control Limits.

Blank Spike Summary

Job Number: DA42612
Account: ALMS SGS Wheat Ridge, CO
Project: APEXCCOL: Little Gaynar Lake

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP90225-BS2	ST160297.D	1	03/15/22	WH	03/14/22	OP90225	GST3901

The QC reported here applies to the following samples: **Method:** SW846 8081B

DA42612-1, DA42612-2

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	Limits
12789-03-6	Chlordane	83.3	85.2	102	52-146
8001-35-2	Toxaphene	167	242	145	48-155

CAS No.	Surrogate Recoveries	BSP	Limits
877-09-8	Tetrachloro-m-xylene	79%	50-122%
2051-24-3	Decachlorobiphenyl	103%	50-133%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: DA42612
Account: ALMS SGS Wheat Ridge, CO
Project: APEXCCOL: Little Gaynar Lake

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP90226-MS	CC081124.D	1	03/16/22	AF	03/14/22	OP90226	GCC2048
OP90226-MSD	CC081125.D	1	03/16/22	AF	03/14/22	OP90226	GCC2048
DA42612-2	CC081127.D	1	03/16/22	AF	03/14/22	OP90226	GCC2048

The QC reported here applies to the following samples: **Method:** SW846 8151A

DA42612-1, DA42612-2

CAS No.	Compound	DA42612-2 ug/kg	Q	Spike ug/kg	MS ug/kg	MS %	Spike ug/kg	MSD ug/kg	MSD %	RPD	Limits Rec/RPD
94-75-7	2,4-D	ND		344	276	80	342	305	89	10	43-124/32
93-72-1	2,4,5-TP (Silvex)	ND		34.4	22.0	64	34.2	26.1	76	17	41-130/31
93-76-5	2,4,5-T	ND		34.4	26.2	76	34.2	29.7	87	13	40-124/35
1918-00-9	Dicamba	ND		34.4	21.1	61	34.2	20.9	61	1	32-129/34
88-85-7	Dinoseb	ND		172	109	63	171	176	103	47*	10-124/41
75-99-0	Dalapon	ND		861	235	27	855	306	36	26	10-133/35
120-36-5	Dichloroprop	ND		344	261	76	342	310	91	17	51-145/34
94-82-6	2,4-DB	ND		344	167	48	342	198	58	17	42-130/34
93-65-2	MCPP	ND		34400	29300	85	34200	31400	92	7	34-130/34
94-74-6	MCPA	ND		34400	36000	105	34200	44700	131*	22	37-124/35
87-86-5	Pentachlorophenol	ND		34.4	20.8	60	34.2	26.3	77	23	45-126/32

CAS No.	Surrogate Recoveries	MS	MSD	DA42612-2	Limits
19719-28-9	2,4-DCAA	87%	65%	66%	31-132%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: DA42612
Account: ALMS SGS Wheat Ridge, CO
Project: APEXCCOL: Little Gaynar Lake

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP90225-MS	ST160301.D	1	03/16/22	WH	03/14/22	OP90225	GST3901
OP90225-MSD	ST160302.D	1	03/16/22	WH	03/14/22	OP90225	GST3901
DA42612-1	ST160299.D	1	03/15/22	WH	03/14/22	OP90225	GST3901

The QC reported here applies to the following samples: **Method:** SW846 8081B

DA42612-1, DA42612-2

CAS No.	Compound	DA42612-1 ug/kg	Q	Spike ug/kg	MS ug/kg	MS %	Spike ug/kg	MSD ug/kg	MSD %	RPD	Limits Rec/RPD
309-00-2	Aldrin	ND		23.9	19.2	80	23.9	20.3	85	6	57-120/28
319-84-6	alpha-BHC	ND		23.9	19.6	82	23.9	21.1	88	7	60-117/24
319-85-7	beta-BHC	ND		23.9	20.3	85	23.9	21.2	89	4	57-125/26
319-86-8	delta-BHC	ND		23.9	17.5	73	23.9	18.2	76	4	42-126/24
58-89-9	gamma-BHC (Lindane)	ND		23.9	19.3	81	23.9	20.5	86	6	60-123/29
60-57-1	Dieldrin	ND		23.9	20.2	85	23.9	21.5	90	6	63-125/29
72-54-8	4,4'-DDD	ND		23.9	21.3	89	23.9	22.2	93	4	55-135/31
72-55-9	4,4'-DDE	ND		23.9	20.5	86	23.9	22.0	92	7	61-129/31
50-29-3	4,4'-DDT	ND		23.9	26.3	110	23.9	28.1	118	7	60-136/39
72-20-8	Endrin	ND		23.9	22.4	94	23.9	23.8	100	6	67-138/28
1031-07-8	Endosulfan sulfate	ND		23.9	21.4	90	23.9	22.9	96	7	59-119/28
7421-93-4	Endrin aldehyde	ND		23.9	20.8	87	23.9	21.9	92	5	37-110/25
959-98-8	Endosulfan-I	ND		23.9	18.8	79	23.9	19.6	82	4	62-122/29
33213-65-9	Endosulfan-II	ND		23.9	20.2	85	23.9	21.1	88	4	62-122/31
76-44-8	Heptachlor	ND		23.9	24.0	101	23.9	25.2	106	5	58-123/30
1024-57-3	Heptachlor epoxide	ND		23.9	19.8	83	23.9	21.0	88	6	60-122/33
72-43-5	Methoxychlor	ND		23.9	26.2	110	23.9	28.4	119	8	57-133/31

CAS No.	Surrogate Recoveries	MS	MSD	DA42612-1	Limits
877-09-8	Tetrachloro-m-xylene	84%	88%	86%	50-122%
2051-24-3	Decachlorobiphenyl	105%	110%	111%	50-133%

* = Outside of Control Limits.

APPENDIX D

INTERVIEW RECORDS

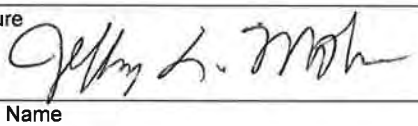
ASTM E-1527 PHASE I ENVIRONMENTAL SITE ASSESSMENT
OWNER (SELLER) QUESTIONNAIRE AND DISCLOSURE STATEMENT

Owner: In order for the Buyer to qualify for one of the *Landowner Liability Protections (LLPs)* offered by the Small Business Liability Relief and Brownfields Revitalization Act of 2001 (the "*Brownfields Amendments*"), the owner/seller must provide the following information (if available) to the *environmental professional*. Failure to provide this information could result in a determination that "*all appropriate inquiry*" is not complete.

1. PROPERTY INFORMATION:

Property Name: Messersmith, Ward-Hillcrest Heights, Wildview - Hillcrest Heights, Wildview – Little Gaynor Lake		
Property Address: Messersmith = 0 Cresthill Drive; Ward-Hillcrest Heights = 0 Oxford Road; Wildview – Hillcrest Heights Outlot D = 7598 N. 95th Street, Wildview – Hillcrest Heights Outlot A, B, and C = 0 Crestview Lane.		
City Longmont	State CO	Zip 80504
Assessor's Parcel Number: Messersmith = 131528201006; Ward-Hillcrest Heights = 131528201002; Wildview – Hillcrest Heights Outlot D = 131528213013 Wildview – Hillcrest Heights Outlot A = 131528214022, Outlot B = 131528214023, and C = 131528214023.		

2. COMPLETED BY

Signature 	Date 3-14-2022
Printed Name Jeffrey L. Moline	Title Resource Planning Manager

3. ASTM-REQUIRED INQUIRIES

Property Owner: Name: Boulder County Parks & Open Space	Phone: 303-678-6200	Fax: 303 678-6177	
Key Site Manager (Site contact): Name: Jeff Moline	Phone: 303-678-6270	Fax: 303 678-6177	
1) Environmental cleanup liens that are filed or recorded against the site (40 CFR 312.25). ARE YOU AWARE OF ANY ENVIRONMENTAL CLEANUP LIENS AGAINST THE *PROPERTY* THAT ARE FILED OR RECORDED UNDER FEDERAL, TRIBAL, STATE OR LOCAL LAW?			NO
2) Activity and land use limitations that are in place on the site or that have been filed or recorded in a registry (40 CFR 312.26). ARE YOU AWARE OF ANY AULS, SUCH AS *ENGINEERING CONTROLS*, LAND USE RESTRICTIONS OR *INSTITUTIONAL CONTROLS* THAT ARE IN PLACE AT THE SITE AND/OR HAVE BEEN FILED OR RECORDED IN A REGISTRY UNDER FEDERAL, TRIBAL, STATE OR LOCAL LAW?			NO
3) Specialized knowledge or experience of the person seeking to qualify for the LLP (40 CFR			

Please return completed form and any attachments via fax/email/mail to:
APEX CONSULTING SERVICES, INC., P.O. BOX 369, LOUISVILLE, CO 80027-0369
TELEPHONE: 303-665-1400 EMAIL: apexcsi@comcast.net

312.28). AS THE OWNER/SELLER, DO YOU HAVE SPECIALIZED KNOWLEDGE OF THE CHEMICALS AND PROCESSES USED AT THIS PROPERTY?	NO
4) Relationship of the purchase price to the fair market value of the *property* if it were not contaminated (40 CFR 312.29). DOES THE PURCHASE PRICE BEING PAID FOR THIS *PROPERTY* REASONABLY REFLECT THE FAIR MARKET VALUE OF THE *PROPERTY*?	YES
5) Commonly known or *reasonably ascertainable* information about the *property* (40 CFR 312.30). Are you aware of commonly known or *reasonably ascertainable* information about the *property* that would help the *environmental professional* to identify conditions indicative of releases or threatened releases? For example, as owner, (A.) DO YOU KNOW OF SPECIFIC CHEMICALS THAT ARE PRESENT OR ONCE WERE PRESENT AT THE *PROPERTY*? (B.) DO YOU KNOW OF SPILLS OR OTHER CHEMICAL RELEASES THAT HAVE TAKEN PLACE AT THE *PROPERTY*? (C.) DO YOU KNOW OF ANY ENVIRONMENTAL CLEANUPS THAT HAVE TAKEN PLACE AT THE *PROPERTY*?	NO
6) The degree of obviousness of the presence of likely presence of contamination at the *property*, and the ability to detect the contamination by appropriate investigation (40 CFR 312.31). AS THE OWNER, BASED ON YOUR KNOWLEDGE AND EXPERIENCE RELATED TO THE *PROPERTY* ARE THERE ANY *OBVIOUS* INDICATORS THAT POINT TO THE PRESENCE OR LIKELY PRESENCE OF CONTAMINATION AT THE *PROPERTY*?	NO
Please provide an explanation of all affirmative answers or attached additional documentation.	

7) Please state reason for procuring this Phase 1 ESA:

X Qualify for Innocent Landowner defense to CERCLA Liability.

☐ Other: (state below)

In addition, certain information should be collected, if available, and provided to the *environmental professional*. This information is intended to assist the *environmental professional* but is not necessarily required to qualify for one of the *LLPs*. Any other knowledge or experience with the *property* that may be pertinent to the *environmental professional such as:*

a) COPIES OF ANY AVAILABLE PRIOR *ENVIRONMENTAL SITE ASSESSMENT REPORTS*,

b) PERTINENT PROPERTY DOCUMENTS,

c) PERTINENT CORRESPONDENCE.

Please return completed form and any attachments via fax to:
APEX CONSULTING SERVICES, INC., P.O. BOX 369, LOUSIVILLE, CO 80027-0369
TELEPHONE: 303-665-1400 EMAIL: apexcsi@comcast.net

APPENDIX E

QUALIFICATIONS OF ENVIRONMENTAL PROFESSIONALS

MICHAEL DEAN HATTEL, P.E.S., P.G., R.E.P.A.

ENVIRONMENTAL AND ENGINEERING GEOLOGIST

EXPERTISE	Phase I & II Environmental Assessments, Environmental Monitoring, Geology, Groundwater, and Hydrology, Turn-Key Remediation Projects, & Operation and Maintenance of Groundwater Remediation Systems
EDUCATION	B.S., Geology, Colorado State University, Fort Collins, 1986 M.S., Engineering Geology, Colorado School of Mines, Golden, 1993
REGISTRATION	Professional Geologist, Wyoming Registered Environmental Property Assessor, National Registered Environmental Professional, Colorado
PROFESSIONAL AFFILIATIONS	Member, Association of Engineering Geologists Member, Association of Ground Water Scientists and Engineers Member, Colorado Groundwater Association

EXPERIENCE SUMMARY

2001 to Present	Apex Consulting Services, Inc.
1991 to 2001	Rocky Mountain Consultants, Inc.
1988 to 1991	Fox Consultants of Colorado, Inc.
1985 to 1988	United States Geological Survey, Water Resources Division

Mr. Hattel has worked on over 1,500 Phase I and II Environmental Assessments (EA) projects, on numerous environmental monitoring and groundwater remediation projects and underground storage tank (UST) and above ground storage tank (AST) projects. His responsibilities on these projects included project management, oversight, design and analysis, feasibility studies, and construction management. Mr. Hattel has extensive experience in subsurface soil and groundwater assessments and remediation, and installation of monitoring and recovery wells, and underground storage tank removal. His experience includes turn-key project management, excavation plans, contaminated materials handling plans, compliance monitoring for Colorado groundwater standards, preparation of spill prevention, control and counter measure (SPCC) plans, installation of free product recovery systems, and design and construction of air sparging and soil vapor extraction systems. Mr. Hattel has designed and installed monitoring and water wells for numerous groundwater investigations. The design included evaluation of existing geologic and groundwater conditions, and the development of applicable monitoring programs. His responsibilities also included well development and maintenance, and evaluation of the aquifer and the well. Using the evaluation data, Mr. Hattel has developed and implemented monitoring methods and instrumentation which includes QA/QC of all aspects of monitoring. Mr. Hattel has designed and has designed and implemented groundwater dewatering and remediation projects. His involvement included the direction of site investigations, design, modeling, implementation of groundwater remediation, and agency reporting. Mr. Hattel has served as an expert witness for engineering geology and petroleum contaminated sites. He has also prepared operation and maintenance manuals for dewatering, UST/AST and hydrocarbon remediation systems for use by site personnel.