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PHASE I ENVIRONMENTAL SITE ASSESSMENT

Lackawanna Mill Site Portion of APN: 010-420-06

Latitude: 39°16'59"

Longitude: 114°52'04"

Ely, Nevada

NDEP Contract #10-008

Task M24-12

Prepared for:

State of Nevada
Department of Conservation and Natural Resources
Division of Environmental Protection
Bureau of Corrective Actions
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On behalf of:

City of Ely, Nevada

June 30, 2012

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EXECUTIVE SUMMARY

The subject property is located on the western edge of the Georgetown Ranch at the base of Squaw Peak approximately two miles north of the City of Ely, Nevada on Lackawanna Road. McGinley and Associates, Inc. (MGA) has performed a Phase I Environmental Site Assessment (ESA) of this property at the request of the State of Nevada Division of Environmental Protection and on behalf of the City of Ely to determine recognized environmental conditions (RECs) in connection with the subject property.

The subject property is located on a portion of a 1,444.5 acre parcel known as White Pine County Assessor's Parcel Number (APN) 010-420-06. The site itself is approximately 40 acres in size and consists of three main areas including a former processing area, a former ore crushing area, and a former tailing pond area. The processing area was observed to have upper and lower portions both consisting of a concrete building pad with former equipment and debris scattered throughout. In addition, a debris dump and bermed area was observed just east of the lower processing area. The ore crushing area consisted of a stepped concrete structure with a ball mill located near the bottom tier of the structure. A large area that appeared to consist of processed material was observed below the stepped concrete structure and proximal to Lackawanna Road. Evidence of a transformer location was observed in this area. Lastly, evidence of the former tailing ponds were observed east of Lackawanna Road within Steptoe Valley. Although access to the former pond area was not gained, observations from Lackawanna Road indicated that the former ponds have soil berms surrounding the area and debris and drums were observed within these bermed areas. Throughout the site, soil piles of varying color were observed. These piles may be material previously processed at the mill site.

Access to the property is gained via Lackawanna Road, which crosses the site from south to north near the bottom of the hill slope at the edge of Steptoe Valley. Several non-surfaced roads cross the site and appear to have been used in the past by mill workers to access all portions of the site. The subject property is bordered on the north by undeveloped land consisting of vegetation on moderate slopes. A residential home and commercial construction business were observed approximately 400 feet from the northern edge of the property. South of the subject property is undeveloped land consisting of vegetation on moderate slopes while west of the subject property is steep slopes consisting of trees and shrubs. East of the former tailing ponds is undisturbed valley lowlands consisting of freshwater marsh and sagebrush.

The subject property is located within Steptoe Valley of east-central Nevada at an elevation of approximately 6,460 feet above mean sea level near the upper levels of the site and approximately 6,270 feet above mean sea level near the former tailing ponds. Average minimum and maximum annual temperatures for Ely, Nevada during the period from 1893 to 2012 are approximately 28.3 and 61.1 degrees Fahrenheit, respectively, while total annual precipitation averages about 9.70 inches. The subsurface geology of the subject property has been mapped as Quaternary-age Older Aluvium. The Older Alluvium is composed of silt, sand, and gravel with localized, poorly consolidated lake deposits. Surface soils at the site consist mainly of Palinor-Urmafot-Palinor association. This soil unit typically has slopes ranging from four to 50 percent, a very low hydraulic conductivity of saturated soil, and a very low available water capacity.

No streams, ponds, or wetlands were observed on the subject property and the subject property is not located within a 100-year flood zone. However, the lower portion of the site (tailing pond area) is located proximal to a series of springs known as Lackawanna Springs. The closest major surface water body to the subject property is a system of creeks located within Steptoe Valley to the east. The creeks are known as Murry Creek and Steptoe Creek and flow from south to north. Groundwater conditions on the subject property have not been positively ascertained. However, depth to groundwater in the area of the subject property is estimated to be greater than 60 feet below ground surface (bgs) on the higher slopes and less than 60 feet bgs near the former tailing pond area. Groundwater flow direction is likely toward the northwest. No wells were observed on the subject property at the time of the site visit and a

search of the State of Nevada Division of Water Resources (NDWR) database did not indicate any wells on the property.

A historical assessment and interviews provided information that indicates the Lackawanna Mill Site was first developed in the 1950s and was finally shut down in the early 1980s. Over that time, multiple mining companies utilized the mill site for various ore processing including gold, silver, and lead. According to a former worker at the mill, the upper processing area was specifically used during his employment (1974-1980) as a refinery for gold and silver. This portion of the facility utilized furnaces for processing the crushed ore. Diesel fuel was utilized to run the furnaces. The ore crushing area utilized a ball mill to crush various ores that were brought to the site for processing. Based on the interview with the former worker, this portion of the site was also utilized for a tank-based cyanide leaching system. Bottom sediments were removed from the tanks and placed within the unlined tailing pond system located east of Lackawanna Road. Additionally, a "large power plant" was erected to run the ball mill and evidence of this power plant was observed during the site visit.

A regulatory review was performed to search for regulatory sites located within a one-mile radius of the subject property. Although the subject property was not identified in the search as a regulatory site, it was identified as an orphan site. It appears that the listing information is not precise enough to map correctly. The listing refers to the former United States Environmental Protection Agency (EPA) Superfund Site Information for the former mill site. It appears that in 1980, after the shut-down of the mill site, the EPA provided a preliminary assessment of the site in order to help determine if the site was disserving of Superfund status. An additional site inspection took place in 1987 and an expanded site inspection took place in 2000. The regulatory review found no other sites within the search distances. In addition, MGA reviewed sites which EDR was not able to map and which are referred to as orphan sites. A review of these sites appears to indicate that with the exception of the "Egan Milling Co Inc" (subject property) site, each are at locations that are considered likely to be hydrologically downgradient from, or cross gradient to, the subject property, have had no reported releases, have had no reported violations of hazardous waste regulations, and/or have received regulatory closure. For this reason, the sites are considered unlikely to cause, or to have caused in the past, environmental impact to the subject property.

Reconnaissance of the publicly accessible, easily visible portions of those properties located immediately adjacent to the subject property did not reveal site conditions that serve as recognized environmental conditions to the subject property.

Upon conclusion of our Phase I ESA, and based on the information reviewed, this assessment has revealed evidence of recognized environmental conditions (RECs) in connection with the subject property. These RECs are as follows:

- Historic use of the property as a mill site: Based on historic information and interviews regarding the past uses of the property, it appears that previous site activity utilized many chemicals and processed different materials which led to the dispersal of concentrated contaminants throughout the site.
- Topographic evidence and anecdotal information indicates the former presence of diesel tanks and diesel spills at the mill site.
- Observations made during the site visit indicate that past disposal practices may have been initiated on site without regard to the environment or regulatory requirements.

Therefore, MGA is of the opinion that, although limited characterization of the mill site has occurred in the past via sampling activities, further environmental investigations are warranted on the subject property at this time. MGA recommends collection of soil samples throughout the site to determine the extent, if any, of contamination from past mill processing activities. In addition, MGA recommends that the discarded and damaged capacitors be removed and disposed at a landfill permitted to accept polychlorinated biphenyl (PCB) waste of this type.

1. INTRODUCTION

1.1 Purpose

This report presents the findings of a Phase I Environmental Site Assessment (ESA) performed on the former mill site located on Lackawanna Road, approximately two miles north of Ely, Nevada. McGinley and Associates, Inc. (MGA) conducted this investigation for the purpose of identifying *recognized environmental conditions* (RECs) on the property and/or nearby properties in accordance with the 2005 American Society of Testing and Materials (ASTM) standards for the performance of Phase I Environmental Site Assessments (ASTM E 1527-05), as well as the standards established by the U.S. Environmental Protection Agency (EPA) in 2006 for conducting All Appropriate Inquiry (AAI).

1.2 Conditions of Contract

MGA performed this work for the Nevada Division of Environmental Protection (NDEP) on behalf of the City of Ely as part of the State of Nevada Brownfields program pursuant to our proposal dated May 31, 2012.

1.3 User Responsibilities

In accordance with ASTM E 1527-05, the user of this Phase I ESA is required to provide information to help identify the possibility of RECs. In order to obtain this information, a questionnaire was provided to a representative of the City of Ely. A copy of the completed questionnaire can be found in Appendix A.

1.4 Scope of Work

The scope of work performed and procedures utilized included the following tasks:

- **Environmental setting review** to determine potential pathways for the migration of contaminants onto, or off of, the subject property;
- **Site reconnaissance** of the subject property and observation of adjacent properties and vicinity by a qualified person under the direct supervision of an MGA Certified Environmental Manager;
- **Review of site history/land use** through historic aerial photographs, a historic topographic map, local jurisdiction records, and a personal interview;
- **Review of regulatory agency records** to identify and assess any listings of regulatory permits, registrations, or enforcement actions at the subject site or proximal sites, through both a commercial database search and agency inquiries; and,
- **Preparation of this report** that describes all work performed and presents a discussion of the results.

2. SITE CHARACTERISTICS

2.1 Site Location

The property investigated for this Phase I Environmental Site Assessment is located on Lackawanna Road approximately two miles north of the City of Ely, White Pine County, Nevada. Specific geographic positioning system (GPS) coordinates for the site entrance is: Latitude 39°16'59" North, Longitude 114°52'04". The subject property lies in the western portion of Steptoe Valley at the eastern slopes of the Egan Range (Figure 1). It is listed as White Pine County Assessor's Parcel number 010-420-06 and is located within Section 03, Township 16 North, Range 63 East of the Mount Diablo Base and Meridian (MDB&M). A copy of the Assessor's Map that depicts the subject property is provided herein as Appendix B.

2.2 Site Description and Current Usage

The subject property is located on a portion of a 1,444.5 acre parcel known as White Pine County Assessor's Parcel Number (APN) 010-420-06. The site itself is approximately 40 acres in size and consists of three main areas including a former processing area, a former ore crushing area, and a former tailing pond area. The processing area was observed to have upper and lower portions both consisting of a concrete building pad with former equipment and debris scattered throughout. In addition, a debris dump and bermed area was observed just east of the lower processing area. The ore crushing area consisted of a stepped concrete structure with a ball mill located near the bottom tier of the structure. A large area that appeared to consist of processed material was observed below the stepped concrete structure and proximal to Lackawanna Road. Evidence of a transformer location was observed in this area. In addition, what appeared to be a possible mine shaft was observed up the hill and southwest of the ore crushing area. Lastly, evidence of the former tailing ponds were observed east of Lackawanna Road within Steptoe Valley. Although access to the former pond area was not gained, observations from Lackawanna Road indicated that the former ponds have soil berms surrounding the area. Debris and drums were observed within these bermed areas. Throughout the site, soil piles of varying color were observed. These piles may be material previously processed at the mill site. Access to the property is gained via Lackawanna Road, which crosses the site from south to north near the bottom of the hill slope at the edge of Steptoe Valley. Several non-surfaced roads cross the site and appear to have been used in the past by mill workers to access all portions of the site. The layout of the subject property is illustrated in Figure 2.

No utilities are currently supplied to the subject property.

2.3 Adjacent Properties

The subject property is bordered by the following:

| North: | Undeveloped land consisting of vegetation on moderate slopes. A residential home and commercial construction business were observed approximately 400 feet from the northern edge of the property. |
|--------|--|
| South: | Undeveloped land consisting of vegetation on moderate slopes. |
| East: | East of the former tailing ponds is valley land consisting of vegetation. |
| West: | Steep slopes consisting of trees and shrubs. |

3. ENVIRONMENTAL SETTING

3.1 Regional Physiographic Setting

The subject property is located within Steptoe Valley of east-central Nevada at an elevation of approximately 6,460 feet above mean sea level near the upper levels of the site and approximately 6,270 feet above mean sea level near the former tailing ponds. Average minimum and maximum annual temperatures for Ely, Nevada during the period from 1893 to 2012 are approximately 28.3 and 61.1 degrees Fahrenheit, respectively, while total annual precipitation averages about 9.70 inches (Western Regional Climate Center (WRCC), 2012).

3.2 Geologic Conditions

Based on the geologic map of the adjacent Ely Quadrangle to the south, the subsurface geology of the subject property is extrapolated to be Quaternary-age Older Aluvium. The Older Alluvium is composed of silt, sand, and gravel with localized, poorly consolidated lake deposits. Surface soils at the site consist mainly of Palinor-Urmafot-Palinor association. This soil unit typically has slopes ranging from four to 50 percent, a very low hydraulic conductivity of saturated soil, and a very low available water capacity (Natural Resources Conservation Service, 2010).

3.3 Surface Water Conditions

No streams, ponds, or wetlands were observed on the subject property and the subject property is not located within a 100-year flood zone. However, the lower portion of the site (tailing pond area) is located proximal to a series of springs known as Lackawanna Springs. The closest major surface water body to the subject property is a system of creeks located within Steptoe Valley to the east. The creeks are known as Murry Creek and Steptoe Creek and flow from south to north.

3.4 Groundwater Conditions

Groundwater conditions on the subject property have not been positively ascertained. However, depth to groundwater in the area of the subject property is estimated to be greater than 60 feet below ground surface (bgs) on the higher slopes and less than 60 feet bgs near the former tailing pond area. Groundwater flow direction is likely toward the northwest. No wells were observed on the subject property at the time of the site visit and a search of the State of Nevada Division of Water Resources (NDWR) database did not indicate any wells on the property.

4. SITE RECONNAISSANCE

4.1 Methodology

For the purpose of assessing current site conditions, a visit to the subject property and surrounding areas was conducted on June 12 and June 13, 2012 under warm and sunny conditions. During the site visit, observations were made to identify *recognized environmental conditions* (*RECs*). As defined by ASTM E 1527-05, a *recognized environmental condition* is the presence, or likely presence, of any hazardous substances or petroleum products on the property under conditions that indicate an existing release, a past release, or a material threat of a release of hazardous substances or petroleum products into structures on the property or into the ground, groundwater, or surface water of the property. The term REC is not intended to include *de minimis* conditions that generally do not present a material risk of harm to public health or the environment and that generally would not be the subject of enforcement action if brought to the attention of appropriate governmental agencies. Photographs taken during the site reconnaissance are provided in Appendix C.

4.2 Site Description

The subject property consists of three main areas including a former processing area, a former ore crushing area, and a former tailing pond area. The site in general lies on the eastern slope of the Egan Range which is mainly covered with vegetation consisting of trees and low lying shrubs. Several non-surfaced roads cross the site and appear to have been used in the past by mill workers for access to all portions of the site.

During the site visit, the former processing area and ore crushing area were walked and observed for recognized environmental conditions. Access to the former tailing pond area was not gained. However, the area was observed from Lackawanna Road above.

The processing area itself is comprised of the former building location, a debris dump, and soil piles consisting of unprocessed feed material and material that was previously processed. The former building location is comprised of two levels. The lower level consists of a large concrete building pad with former equipment still remaining. The equipment appeared to be in a state of disrepair. Debris was observed throughout this portion and it appears that some of the debris has been used as targets for shooting practice. Approximately 15 to 20 capacitors were observed on the concrete pad. Many of those were found in piles and several dark stains were observed near or around the capacitors. Three other capacitors were observed within the natural vegetation proximal to this lower portion. The upper level consists of a concrete building pad and segregated storage areas still containing empty drums either unlabeled or labeled as "sodium cyanide". An enclosed concrete shelter was observed and appears to have been used recently as living quarters. In addition, multiple piles of whitish/gray material were observed south of the upper level. Beyond the whitish material were additional piles consisting of reddish material.

The ore crushing area consisted of a stepped, concrete structure with a ball mill located on the second tier from the bottom of the structure. A large area that appeared to consist of processed material of whitish and reddish colors was observed below the stepped concrete structure and proximal to Lackawanna Road. Further, evidence of a transformer location was observed in this area. Debris, including corroding drums, miscellaneous scraps of metal, and broken pieces of high-voltage transformer bushings were observed.

Lastly, the former tailing pond area was observed from above via Lackawanna Road. Remnants of what appeared to be a former wooden flume structure was noted south of the area. The pond area appeared to be designed with soil berms surrounding most of the tailing area. Piles of material and debris, including drums, were observed in the initial section of the bermed area.

4.3 Surrounding Properties

The subject property lies within a rural area just north of the City of Ely. A residential home and construction business was observed north of the property. An undisturbed section of vacant land was observed between the mill site and the development. Large construction equipment was noted on this property. To the south and west lies undisturbed and vacant land covered with trees, shrubs, and low-lying vegetation. To the east is the flood plain of Steptoe Valley. Reconnaissance of the publicly accessible portions of those properties located immediately adjacent to the subject property revealed no RECs.

4.4 Observations During Reconnaissance

An MGA representative visited the subject site on June 12 and June 13, 2012. The entire site was walked and observed for RECs. The following is a list of some of the items of interest that were looked for during the site visit. If the item was not discovered, it will be noted as "Not Observed". If the item was observed during the site visit, it will be noted as "Observed" and a short description of the observation will follow.

Staining or discoloration of soil and/or pavement

Both staining and discoloration of soil was observed on site. Staining of the concrete pad near discarded capacitors was observed. In addition, multiple areas of soil staining was observed during the site visit.

Observed

Wastewater systems, septic systems, sumps, and/or seeps.
 Not Observed

Wells
 Not Observed

Patched areas of asphalt or concrete
 Not Observed

Standing surface water, ponds, farm tanks, etc...

Not Observed

Railroad spurs
 Not Observed

• UST systems / vent pipes Not Observed

Aboveground Storage Tanks
 Not Observed

• Suspect PCB containing equipment

15 to 20 discarded capacitors were observed on the subject property. Several were observed with bullet holes and several appeared to have been opened in the past. Staining was noted proximal to several of the capacitors located on the concrete pad..

Observed

• Paint booths, spray rigs, etc.

Not Observed

| Unorthodox heating and ventilation systems | Not Observed |
|---|--------------|
| Emergency generators | Not Observed |
| • Unusual odors | |
| A sweet odor was sensed in several of the locations proximal to discarded capacitors. | Observed |
| Dumping, disturbed soils, direct burial activity | |
| Disturbed soils and evidence of dumping was observed in multiple locations throughout the site. | Observed |
| • Floor drains | Not Observed |
| • Air emissions | Not Observed |
| Industrial or manufacturing activities | Not Observed |
| Distressed, discolored or stained vegetation | Not Observed |
| Oil or gas well exploration or refinery activities | Not Observed |
| Surface water contamination | Not Observed |
| • Farm waste, feed lot spoils, or manure stockpile | Not Observed |
| Prolonged use, misapplication or storage of pesticides | Not Observed |
| Discharges or run-off of potential contaminants from off-site sources | Not Observed |
| Basements and/or subsurface vaults | Not Observed |

4.5 PCB Sources

Discarded and damaged capacitors were observed proximal to the processing area located on the subject property. Approximately 20 of these capacitors were found. One was observed within the mine dump located approximately 100 feet east of the processing area. The capacitors had labels indicating they were Westinghouse Water Cooled Inerteen Capacitors. According to the material safety data sheet (MSDS) for Inerteen coolant manufactured prior to 1977, the material consists of 99.8% PCBs and 0.2% phenyl glycidyl ether.

5. SITE HISTORY AND LAND USE

A historical assessment of the subject property was performed through a search and review of City street directories, Sanborn fire insurance maps, historic aerial photographs, County records, and interviews. The purpose of the historical assessment was to identify *historical recognized environmental conditions* (*HRECs*) associated with the property. As defined in ASTM E 1527-05, a *historical recognized environmental condition* is one that, in the past, would have been considered a *recognized environmental condition*, but which may or may not be considered as such currently. A summary of our historical assessment is presented below.

5.1 City Street Directories

City directory listings were not available for the subject property.

5.2 Historic Aerial Photograph Review

Historic aerial photographs were provided by EDR covering the area of the subject property for the years 1976, 1982, 1994, 1999, and 2006. A current aerial photograph was observed online utilizing various websites. Aerial photographs for years other than these dates were not reviewed. Each of the aerial photographs reviewed were taken at a relatively high altitude and a few are not particularly clear. In all aerial photographs reviewed, the subject property appears to be disturbed and the tailing pond area is visible. A copy of the aerial photograph report reviewed is provided in Appendix D.

5.3 Sanborn Fire Insurance Maps

Sanborn fire insurance maps were not published for the area surrounding the subject property. A certified report of those findings is included in Appendix E.

5.4 Historic Topographic Maps

Historic topographic maps were provided by EDR covering the area of the subject property for the years 1952, 1958, and 1979. Topographic maps for years other than these dates were not reviewed. The earliest map reviewed (1952) appears to show the subject property as undeveloped with an airway beacon nearby. The 1958 and 1979 maps display the site as the Baltimore Mill. Tailings ponds are notated to be in the general vicinity of the current location. In addition, oil storage is notated on the map. This is considered a REC in relation to the subject property. A copy of the historic topographic map report is provided in Appendix E.

5.5 White Pine County Assessor's Office

According to the White Pine County, Nevada Assessor's Office, the subject property is located within a portion of parcel number 010-420-06. The property is approximately 40 acres in area and is currently owned by the Municipal Water Department for the City of Ely. Information was not available to positively ascertain the date of which the City of Ely gained ownership of the property. No other information was provided.

5.6 Personal Interviews

5.6.1 Jim Alworth, City Clerk, City of Ely

Prior to the site reconnaissance, a representative for the City of Ely (user) was interviewed with regard to site history and known or suspected environmental issues associated with the subject property. Mr. Jim Alworth, City Clerk for the City of Ely, was able to locate a limited amount historical information regarding the former mining companies that utilized the site in the past.

Although Mr. Alworth was aware of the past use of the site and the type of debris that has been encountered at the site, he was unaware of any regulatory issues associated with the site.

5.6.2 Ross Rivera, Fire Department Chief, City of Ely

Mr. Ross Rivera, the City of Ely Fire Department Chief was also interviewed regarding his knowledge of the subject property. Mr. Rivera indicated that he recently became aware of some PCB capacitors that were identified on the property by a City of Ely Councilman after his visit to the mill site. Mr. Rivera removed a tag from one of the capacitors and was able to determine that the capacitor was a PCB containing Westinghouse Water Cooled Inerteen Capacitor. At that time, Mr. Rivera placed barriers in front of the two access roads that lead to the processing area to keep trespassers away from the site. Mr. Rivera also indicated that a large amount of empty drums were kept on site over the years and that they were previously removed as scrap.

5.6.3 Former Mill Site Worker

A former worker at the mill site was interviewed regarding his knowledge of the facility. The worker was at the site working between 1974 and 1980. He was able to provide in-depth information regarding the processes that were utilized while he was on site, as well as historical information regarding the use of the mill site prior to his arrival. He indicated that during his time at the mill, the ore crushing area accepted the ore and crushed the material into a fine slurry which was subsequently pumped to cyanide leaching tanks located onsite. The setup was a closed circuit system with zinc precipitation performed to extract the gold out of the cyanide solution. The gold extract was then sent to the processing area which was utilized as a smelter/refinery for gold and silver. The material was treated in diesel-fired furnaces to remove impurities and create bars of silver or gold. The bottom fines within the cyanide tanks were eventually removed and pumped to tailings ponds located across Lackawanna Road to the east. The worker also indicated that the dump site located below and to the east of the processing area was an area that unused and spent chemicals and materials used in the smelting and refining process were disposed of. In addition, the worker spoke of diesel tanks on site and recalled multiple fuel spills from mining equipment and/or construction trucks during his time at the mill site.

The worker also provided information regarding the historic nature of the site. He said he was aware of multiple mining companies which utilized the mill throughout its history. He thought that the mill was first erected in the 1950s and stated that it was shut down for good in 1980. He indicated that most of the equipment onsite was sent to another mill site being erected in South America.

6. REGULATORY AGENCY REVIEW

A regulatory agency review was conducted through both a commercial database search (Environmental Data Resources, Inc. (EDR)) and agency inquiries. The purpose of this regulatory agency review was to ascertain if regulatory actions have been imposed on the subject property, or on properties within the radius guidelines established by the 2005 ASTM Standards for Environmental Site Assessments.

6.1 Environmental Data Resources (EDR) Radius Map Report

At the request of MGA, EDR performed a review of federal, state, and local environmental databases. A copy of the EDR report is included herein as Appendix F. Included within the report are summaries of the regulatory databases reviewed, a listing of sites identified within the search radius, detailed data on the identified sites, and maps showing the locations of facilities reported to have had regulatory action. MGA reviewed and evaluated all of the sites in the EDR report.

The EDR database search was conducted using a 1-mile search radius starting from the subject property. The regulatory agency review did not identify the subject property as a regulatory site. However, the subject property was identified as an orphan site. It appears that the listing information is not precise enough to map correctly. The listing refers to the former United States Environmental Protection Agency (EPA) Superfund Site Information for the former mill site. It appears that in 1980, after the shut-down of the mill site, the EPA provided a preliminary assessment of the site in order to help determine if the site was disserving of Superfund status. An additional site inspection took place in 1987 and an expanded site inspection took place in 2000.

The regulatory review found no other sites within the search distances. In addition, MGA reviewed sites which EDR was not able to map and which are referred to as orphan sites. A review of these sites appears to indicate that with the exception of the "Egan Milling Co Inc" (subject property) site, each are at locations that are considered likely to be hydrologically downgradient from, or cross gradient to, the subject property, have had no reported releases, have had no reported violations of hazardous waste regulations, and/or have received regulatory closure. For this reason, the sites are considered unlikely to cause, or to have caused in the past, environmental impact to the subject property

6.2 Environmental Protection Agency, Region 9

The EPA Superfund Records Center (SRC), Region 9, was contacted regarding the former assessments and site inspections that took place on the property between 1980 and 2000. The SRC was able to provide documentation pertaining to a Site Inspection Prioritization Report performed in June of 1994 and an Expanded Site Inspection performed in September of 1996. The SRC indicated that no other documentation for the site was found during their search.

6.2.1 Site Inspection Prioritization Report (June 1994)

In June of 1994, a Site Inspection Prioritization Report (SIP) was performed on the mill site by NDEP. The SIP was generated to further evaluate the site using EPA's Hazard Ranking System (HRS) criteria. The SIP provided information regarding the operational history as well as the regulatory involvement as of the date of the report. Based on the SIP, it appears that prior to 1994, a limited sampling was performed in 1980 and a removal of drums, transformers, and chemicals was performed in 1985. The SIP concluded that:

"Based on the observations made during the SIP site reconnaissance visit, historical file information and photographic documentation, cyanide may be the most significant contamination of potential concern. Other potential contaminants include zinc, mercury, antimony, arsenic, chromium, copper, lead, and nickel."

According to a Remedial Site Assessment Decision document from September of 1995 and found within the file, further assessment under CERCLA via complete HRS sampling was recommended. However, the priority of this assessment was marked as "Lower".

6.2.2 Expanded Site Inspection (September 1996)

In September of 1996, the EPA tasked NDEP with providing an expanded site inspection (ESI) on the mill site. The ESI was comprised of both sampling and non-sampling activities. The study was designed to collect adequate data to evaluate the site using the HRS.

According to the sampling and analysis plan submitted by NDEP, sampling activities were focused on the surface water pathway and included drainage patterns from the site and the prominent surface water system in the vicinity of the site and originating from Lackawanna Springs. In addition, slag and/or tailings piles were sampled to characterize the contamination present and the potential for migration. Non-sampling activities performed during the ESI included size verification of wetlands, determination of drainage patterns from Lackawanna Spring flows, identifying any fisheries in the area potentially affected by the system, local use of spring water, and review of White Pine County historical records.

For the ESI, collected samples were analyzed for metals, PCBs, pesticides, cyanide, semi-volatile organic compounds (SVOCs), volatile organic compounds (VOCs), and mercury. Based on the results from the analysis, the ESI concluded that hazardous substance sources on the site included the slag and tailings piles, the flotation/evaporation ponds, the tailings ponds, and the contaminated soil beneath the ceramic debris area at the north end of the smelting structure.

6.3 Nevada Division of Environmental Protection

Based on a review of EPA documents available through the SRC, the NDEP performed a SIP of the mill site in 1994 and an ESI of the mill site in 1996. The documents were reviewed for this report and are described in Sections 6.2.1 and 6.2.2 above. No other files were obtained from NDEP for review.

7. POTENTIAL ENVIRONMENTAL HAZARDS

A review of site-specific, potential environmental hazards was conducted for the purpose of identifying environmental issues not subject to regulatory enforcement action, but which may nevertheless be considered a *Business Environmental Risk* to the user of this Phase I ESA.

7.1 Asbestos

Asbestos containing material (ACM) has been identified as a potential health hazard, particularly when that material is friable and becomes damaged. Identification and sampling for the presence of ACM are beyond the Scope of Work (as outlined in Section 1.4 of this Report) for this Phase I ESA. However, given the age of the mill site, ACM may be present in portions of the structure and/or equipment that remain on site. Therefore, an ACM survey is recommended to be performed prior to demolition and removal of structures and/or equipment left on site.

7.2 Radon

Radon gas is a colorless, toxic gas derived from the radioactive decay of uranium and other minerals, which are often found within bedrock and unconsolidated sediments. Radon gas can enter homes and other structures through floor cracks and other openings that are in direct contact with the underlying geologic materials. Sampling for the presence of radon gas is beyond the Scope of Work (as outlined in Section 1.4 of this Report) for this Phase I ESA. However, MGA has reviewed the U.S. Environmental Protection Agency (EPA) published report of radon zones for the State of Nevada (EPA, 1993). According to the report, the City of Ely is listed as having an average radon level of 4.3 pCi/L and a 39.3% chance of radon levels greater than 4 pCi/L. The U.S. EPA recommended action level for radon gas is 4 pCi/L. Should the user of this Phase I ESA wish to gain confidence with regard to the risk of radon gas, it is recommended that on-site structures be tested when redevelopment of the site occurs.

7.3 Mold

Molds are naturally occurring organisms that live and reproduce on moist surfaces. Within the interior of a structure, the presence of mold can lead to asthma, allergic reactions, and respiratory problems. Identification and sampling for the presence of mold are beyond the Scope of Work (as outlined in Section 1.4 of this Report) for this Phase I ESA.

8. SUMMARY AND CONCLUSIONS

McGinley and Associates, Inc. (MGA) has performed this Phase I Environmental Site Assessment in accordance with the scope and limitations of ASTM Practice E 1527 – 05 for the subject property known as the Lackawanna Mill Site and located approximately two miles north of the City of Ely, Nevada. A summary of our environmental conclusions is presented below.

8.1 Subject Property Concerns

8.1.1 Recognized Environmental Conditions

Recognized environmental conditions were noted for the subject property and are as follows:

- Historic use of the property as a mill site: Based on historic information and interviews regarding the past uses of the property, it appears that previous site activity utilized many chemicals and processed different materials which led to the dispersal of concentrated contaminants throughout the site.
- Topographic evidence and anecdotal information indicates the former presence of diesel tanks and diesel spills at the mill site.
- Observations made during the site visit indicate that past disposal practices may have been initiated on site without regard to the environment.

8.1.2 Historical Recognized Environmental Conditions

Historical information indicates that the site has only been utilized as a mill site for the mining industry. This past use appears to serve as a *historical recognized environmental condition* (*HREC*) for the subject property.

8.2 Surrounding Property Concerns

No *recognized environmental conditions* were noted on the publicly accessible portions of those properties located immediately adjacent to the subject site.

8.3 Conclusions

McGinley & Associates, Inc. (MGA) has performed a Phase I Environmental Site Assessment in conformance with the scope and limitations of ASTM Practice E 1527 of the Lackawanna Mill Site located on a portion of White Pine County APN 010-420-06, approximately two miles north of the City of Ely, Nevada. Any exceptions to, or deletions from, this practice are described in Section 9 of this report.

Upon conclusion of our Phase I ESA, and based on the information reviewed, this assessment has revealed evidence of recognized environmental conditions (RECs) in connection with the subject property. These RECs are as follows:

- Historic use of the property as a mill site: Based on historic information and interviews regarding the past uses of the property, it appears that previous site activity utilized many chemicals and processed different materials which led to the dispersal of concentrated contaminants throughout the site.
- Topographic evidence and anecdotal information indicates the former presence of diesel tanks and diesel spills at the mill site.
- Observations made during the site visit indicate that past disposal practices may have been initiated on site without regard to the environment.

Therefore, MGA is of the opinion that, although limited characterization of the mill site has occurred in the past via sampling activities, further environmental investigations are warranted on the subject property at this time. MGA recommends collection of soil samples throughout the site to determine the extent, if any, of contamination from past mill processing activities. In addition, MGA recommends that the discarded and damaged capacitors be removed and disposed at a landfill permitted to accept poly-chlorinated biphenyl (PCB) waste of this type.

9. LIMITATIONS

9.1 General

The conclusions and recommendations presented above are based upon the agreed scope of work outlined in the above report. McGinley and Associates, Inc. makes no warranties or guarantees as to the accuracy or completeness of information obtained from others. It is possible that information exists beyond the scope of this investigation. Additional information, which is not available to McGinley and Associates, Inc. at the time of writing the Report, may result in a modification of the conclusions and recommendations presented. The services performed by McGinley and Associates, Inc. have been conducted in a manner consistent with the level of care ordinarily exercised by members of our profession currently practicing under similar conditions. This report is not a legal opinion, but may under certain circumstances be prepared at the direction of counsel, may be in anticipation of litigation, and may be classified as an attorney-client communication or as an attorney work product.

This report has been prepared for the sole use of the addressee of this report, and cannot be released without consent from McGinley & Associates Inc. If a third party relies on the information provided in this report, McGinley and Associates, Inc. accepts no responsibility for damages suffered by the third party as a result of reliance of information contained in this report, and that nothing contained in this report shall create a contractual relationship or cause the third party to bring suit against McGinley & Associates, Inc.

9.2 Data Gaps

Several data gaps were identified during the course of performance of this Phase I ESA. The data gaps are as follows:

- Aerial photographs prior to 1976 were not available for review.
- Sanborn Maps were not published for the subject property.
- City Directory listings were not available for review.

Although these data gaps exist, other historical evidence was available to provide information detailing the history of the property and these data gaps do not appear to be significant. Therefore, MGA is of the opinion that, should this data become available, the conclusions drawn herein would be unlikely to change.

10. SIGNATURES OF ENVIRONMENTAL PROFESSIONALS

We certify that, to the best of our knowledge and belief, we meet the definition of Environmental Professionals, as defined in ASTM E 1527-05. We have specific qualifications based on education, training, and experience to assess a property of this nature, history, and setting. We have developed and performed all appropriate inquiries in conformance with the standards and practices set forth in 40 CFR Part 312. Resumes of the environmental professionals utilized in performance of this Phase I ESA are attached in Appendix H.

Respectfully Submitted:

McGinley and Associates, Inc.

Brett Bottenberg, C.E.M. #1690, Exp. Date 10/7/13

Project Manager

Reviewed by:

I hereby certify that I am responsible for the services described in this document and for the preparation of this document. The services described in this document have been provided in a manner consistent with the current standards of the profession, and to the best of my knowledge, comply with all applicable federal, state and local statutes, regulations and ordinances.

Joseph M. McGinley, C.E.M. #1036, Exp. Date 11/12

Principal

11. REFERENCES

ASTM, Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process, ASTM E 1527-05.

Brokaw, A.L., 1967. *Geologic Map and Sections of the Ely Quadrangle, White Pine County, Nevada*, U.S. Geological Survey, Geologic Quadrangle Map GQ-697.

Environmental Data Resources, June 7, 2012. *Aerial Photo Decade Package*, Inquiry Number: 3338816.5.

Environmental Data Resources, June 7, 2012. *Certified Sanborn Map Report*, Inquiry Number: 3338816.3.

Environmental Data Resources, June 7, 2012. *Historical Topographic Map Report*, Inquiry Number: 3338816.4.

Environmental Data Resources, June 7, 2012. *Radius Map Report with GeoCheck*, Inquiry Number: 3338816.2s.

Federal Emergency Management Agency (FEMA), November 16, 2011. White Pine County Unincorporated & Incorporated Area, Flood Insurance Rate Map (FIRM) 32033C2650B.

Nevada Division of Water Resources (on-line), http://water.nv.gov , Well log database.

Natural Resources Conservation Service. *Soil Survey Area: Western White Pine County Area, Parts of White Pine and Eureka Counties. Survey Area Data: Version 5, Jan 5, 2010.* United States Department of Agriculture.

Western Regional Climate Center (WRCC), 2012. Desert Research Institute Website.

White Pine County Assessor's Office.

APPENDIX A

User Questionnaires

USER QUESTIONNAIRE

Property Address: Lackawanna Mill Site (APN: 010-420-06)

In order to qualify for one of the *Landowner Liability Protection (LLP's)* offered by the Small Business Liability Relief and Brownfields Revitalization Act of 2001 (the "*Brownfields Amendments*"), the *user* 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.) 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 filled or recorded under federal, tribal, state, or local law?

(2.) Activity and land use limitations (AUL's) 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 AUL's, 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 the federal, tribal, state, or local law?

No

(3.) Specialized Knowledge or experience of the person seeking to qualify for the LLP (40 CFR 312.28). As the *user* of this ESA do you have any specialized knowledge or experience related to the *property* or nearby properties? For example, are you involved in the same line of business as the current or former *occupants* of the *property* or an adjoining *property* so that you would have specialized knowledge of the chemicals and the processes used by this type of business?

None

(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*? If you conclude that there is a difference, have you considered whether the lower purchase price is because contamination is known or believed to be present at the *property*?

NA

Initials:

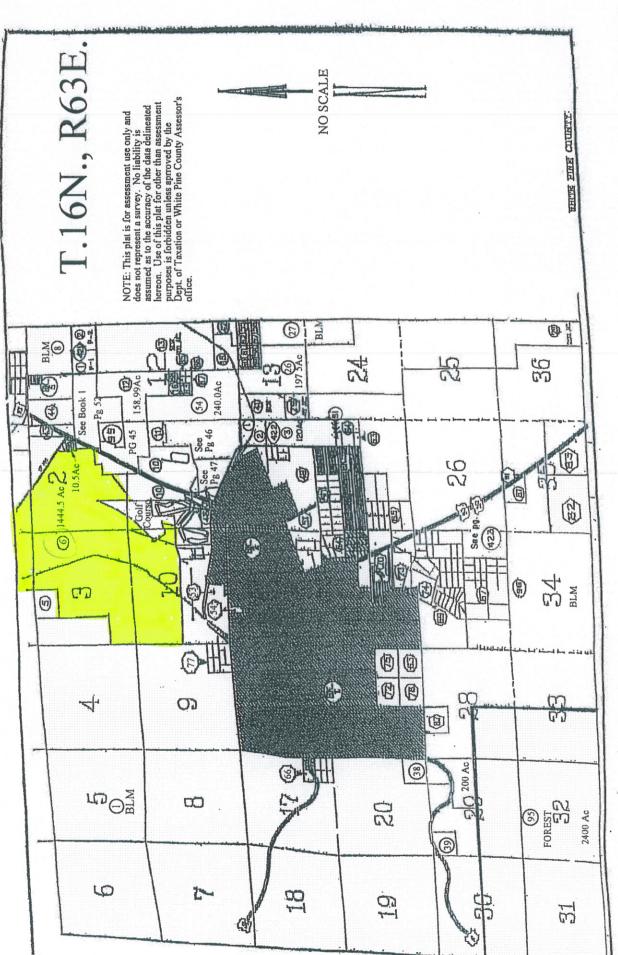
USER QUESTIONNAIRE

Property Address: Lackawanna Mill Site (APN: 010-420-06)

| (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 user |
|--|
| (a.) Do you know the past uses of the property? |
| Yes. Former Min Site |
| (b.) Do you know of specific chemicals that are present or once were present at the property? |
| No |
| (c.) Do you know of spills or other chemical releases that have taken place at the property? |
| None |
| (d.) Do you know of any environmental cleanups that have taken place at the property? |
| No |
| (6.) The degree of obviousness of the presence or likely presence of contamination at the property, and the ability to detect the contamination by appropriate investigation (40 CFR 312.31). As the user of this ESA, 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? |
| |
| |
| |
| |
| Signature & Title City of ECY Date |
| |

APPENDIX B

Assessor's Map and Parcel Information



WHITE PINE COUNTY'S VISION: White Pine County's White Pine Progressive leadership supports a prosperous and stable County economy and outstanding quality of life for all of its citizens.

> Assessor Home Back to Search List Personal Property Sales Data Secured Tax Inquiry Recorder Search

Parcel Detail for Parcel # 010-420-06

Location

Property Location SEE ADD LOCATIONS FOR EA BLDG

Town GOLF COURSE DUMP

Subdivision SEWER TREATMENT PLANT Lot Block

Property Name ANIMAL SHELTER & MAINTANENCE

Add'l Addresses

Legal Description

Ownership

Assessed Owner Name $\frac{\text{MUNICIPAL WATER}}{\text{DEPT}}$

Mailing Address 501 MILL ST ELY, NV 89301

Ownership History **Document History**

Legal Owner Name DEPT MUNICIPAL WATER

Vesting Doc#, Date 00/00/00 Book/Page /

Map Document #s

Description

Total Acres .000 Ag Acres 1,444.500 W/R Acres .000

Improvements

Bdrm/Bath 0/.00 Single-fam Detached 0 Non-dwell Units 0 Single-fam Attached 0 MH Hookups 0 Stories .0

Multi-fam Units 0 Wells 0 Mobile Homes 0 Septic Tanks 0

Total Dwelling Units 0 Bldg Sq Ft 0

Garage Sq Ft 0 Attch/Detch Basement Sq Ft 0 Finished 0 Improvement List

Appraisal Classifications

Current Land Use Code 605 Code Table

Zoning

Re-appraisal Group 3 Re-appraisal Year 2008

Orig Constr Year Weighted Year

Assessed Valuation

| Assessed Values | 2013-14 | 2012-13 | 2011-12 |
|------------------------|-----------|-----------|-----------|
| Land | 0 | 0 | 0 |
| Improvements | 6,187,276 | 6,187,276 | 5,728,959 |
| Personal Property | 0 | 0 | 0 |
| Ag Land | 64,908 | 50,810 | 56,305 |
| Exemptions | 6,252,184 | 6,238,086 | 5,785,264 |
| Net Assessed Value | 0 | 0 | 0 |
| Increased (New) Values | | | |
| Land | 0 | 0 | 0 |
| Improvements | 0 | 0 | 0 |
| Personal Property | 0 | 0 | 0 |

| | | | 1 | |
|------------------------|----------------|------------|------------|--|
| Taxable Valuation | | | | |
| Taxable Values | <u>2013-14</u> | 2012-13 | 2011-12 | |
| Land | 0 | 0 | 0 | |
| Improvements | 17,677,931 | 17,677,931 | 16,368,454 | |
| Personal Property | 0 | 0 | 0 | |
| Ag Land | 185,451 | 145,171 | 160,871 | |
| Exemptions | 17,863,383 | 17,823,103 | 16,529,326 | |
| Net Taxable Value | 0 | 0 | 0 | |
| Increased (New) Values | | | | |
| Land | 0 | 0 | 0 | |
| Improvements | 0 | 0 | 0 | |
| Personal Property | 0 | 0 | 0 | |

6/19/2012 3:09 PM 1 of 1

APPENDIX C

Site Photographs



Photograph 1: Northern edge of mill site looking east



Photograph 2: Southern portion of site looking west



Photograph 3: Eastern portion of site looking south



Photograph 4: Western portion of site looking south towards the mill processing area



Photograph 5:
Adjacent property to the north – residential and commercial



Photograph 6: Adjacent property to the east – Steptoe Valley



Photograph 7: Adjacent property to the west – vacant land



Photograph 8: Lackawanna Mill processing area



Photograph 9: View of lower processing area looking southwest



Photograph 10: View of multiple capacitors damaged and possibly leaking



Photograph 11: View of separating equipment and debris – lower processing area



Photograph 12: View of upper processing area



Photograph 13: View of segregated storage areas – upper processing area



Photograph 14: View of discarded capacitor proximal to processing area



Photograph 15: View of dump site proximal to the processing area



Photograph 16: View of mill dump site debris



Photograph 17: View of processed soil piles – east of processing area



Photograph 18: View of processed soil fines located south of processing area



Photograph 19: View of clinker pile



Photograph 20: Miscellaneous debris near processing area



Photograph 21: Typical stained soil found throughout site



Photograph 22: Looking east towards mill dump location and former drum storage area



Photograph 23: View of former ball mill equipment



Photograph 24: Lackawanna Mill ore crushing area with former tailings and pond location beyond ball mill – looking east



Photograph 25: Looking north towards the ore crushing area with view of ball mill



 ${\bf Photograph~26:} \\ {\bf Former~tailings~pond~bottoms~below~ball~mill-looking~southwest} \\$



Photograph 27: Possible transformer location proximal to ore crushing area



Photograph 28: Soil debris piles located northwest of ball mill



Photograph 29: View of former water tank location between processing area and ore crushing area



Photograph 30: View of possible shaft below former water tank location



Photograph 31:
View of Steptoe Valley with portion of tailings pond sediment and the ore crushing area



Photograph 32: Lackawanna Road running north to south between the tailing pond sediment and the ore crushing area



Photograph 33: Looking northeast towards the tailing ponds

APPENDIX D

Historic Aerial Photographs

Old Lackawanna Mill Site

Lackawanna Road Ely, NV 89301

Inquiry Number: 3338816.5

June 07, 2012

The EDR Aerial Photo Decade Package



EDR Aerial Photo Decade Package

Environmental Data Resources, Inc. (EDR) Aerial Photo Decade Package is a screening tool designed to assist environmental professionals in evaluating potential liability on a target property resulting from past activities. EDR's professional researchers provide digitally reproduced historical aerial photographs, and when available, provide one photo per decade.

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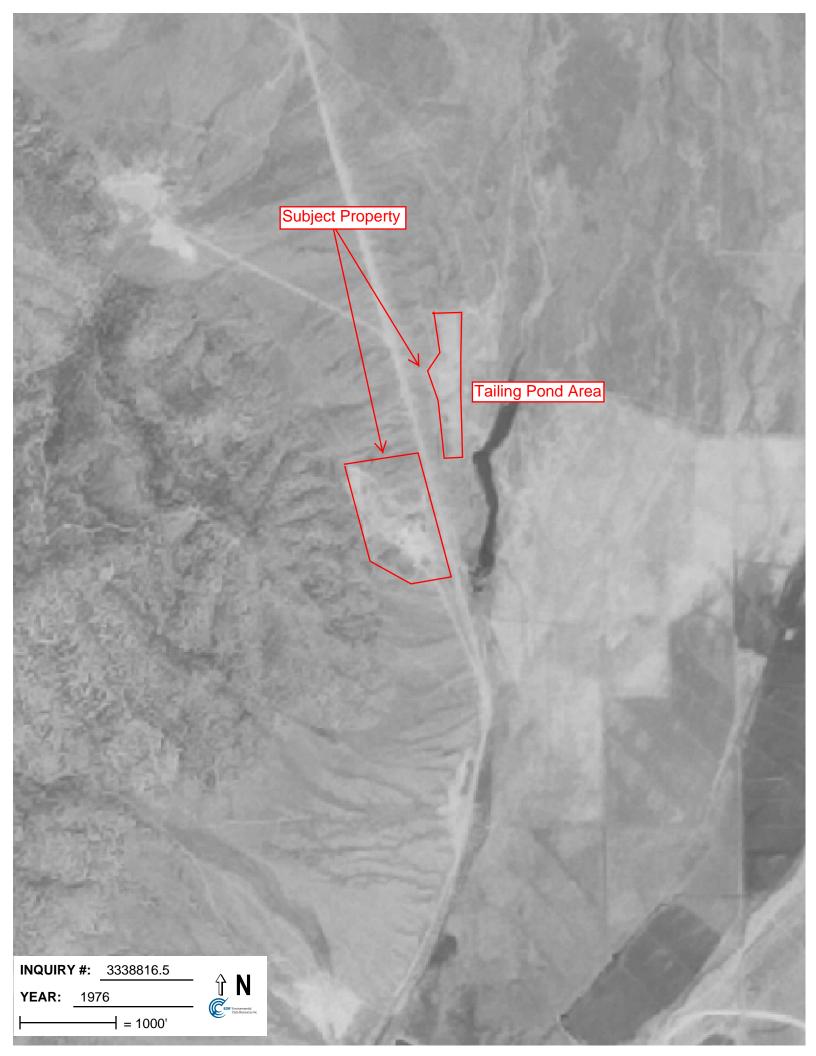
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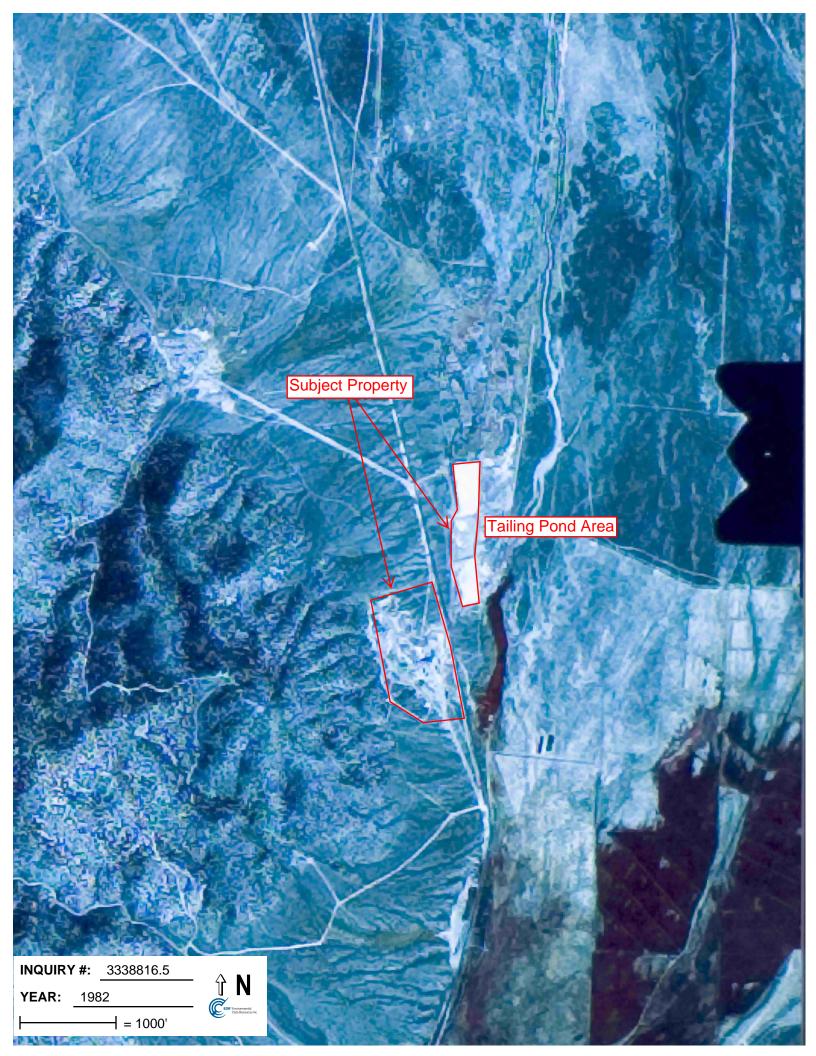
Aerial Photography June 07, 2012

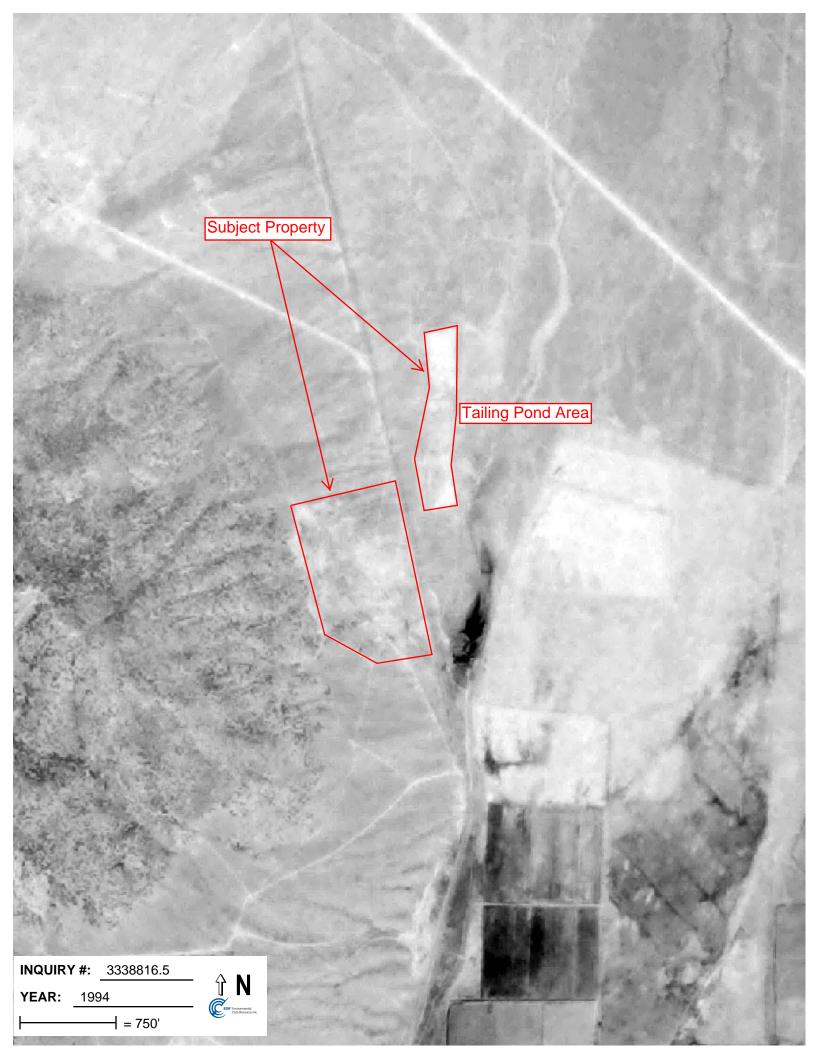
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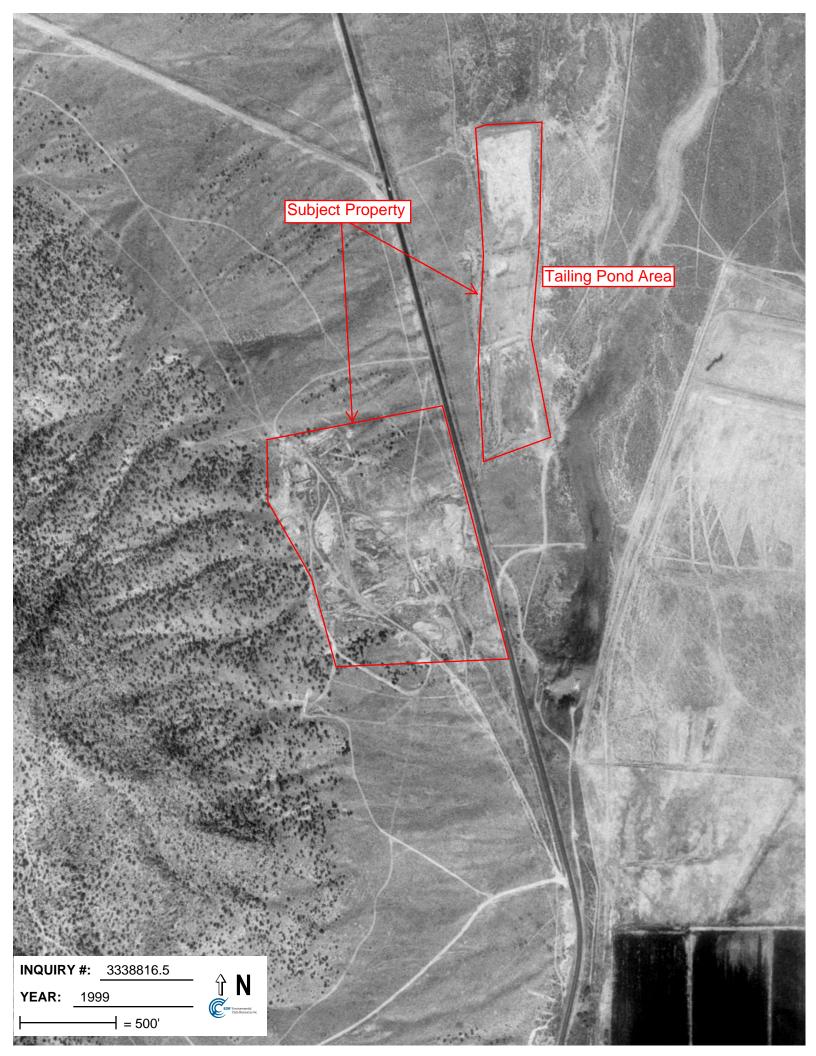
Lackawanna Road Ely, NV 89301

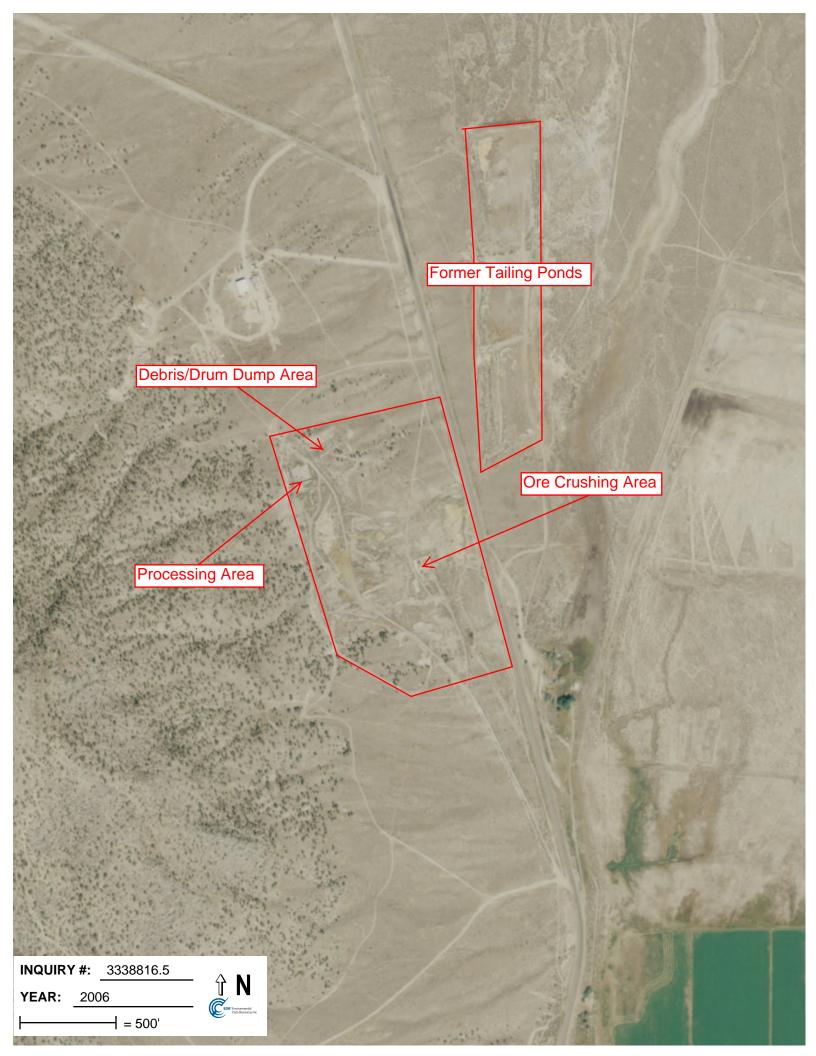
| <u>Year</u> | <u>Scale</u> | <u>Details</u> | <u>Source</u> |
|-------------|------------------------------------|---|---------------|
| 1976 | Aerial Photograph. Scale: 1"=1000' | Panel #: 39114-C7, East Ely, NV;/Flight Date: June 26, 1976 | EDR |
| 1982 | Aerial Photograph. Scale: 1"=1000' | Panel #: 39114-C7, East Ely, NV;/Flight Date: August 04, 1982 | EDR |
| 1994 | Aerial Photograph. Scale: 1"=750' | Panel #: 39114-C7, East Ely, NV;/Flight Date: June 25, 1994 | EDR |
| 1999 | Aerial Photograph. Scale: 1"=500' | Panel #: 39114-C7, East Ely, NV;/Composite DOQQ - acquisition dates: September 07, 1999 | EDR |
| 2006 | Aerial Photograph. Scale: 1"=500' | Panel #: 39114-C7, East Ely, NV;/Flight Year: 2006 | EDR |











APPENDIX E

Sanborn Maps and Historic Topographic Maps

Old Lackawanna Mill Site

Lackawanna Road Ely, NV 89301

Inquiry Number: 3338816.3

June 07, 2012

Certified Sanborn® Map Report



Certified Sanborn® Map Report

6/07/12

Site Name: Client Name:

Old Lackawanna Mill Site McGinley Associates Lackawanna Road 815 Maestro Drive Ely, NV 89301 Reno, NV 89511

EDR Inquiry # 3338816.3 Contact: Brett Bottenberg



The complete Sanborn Library collection has been searched by EDR, and fire insurance maps covering the target property location provided by McGinley Associates were identified for the years listed below. The certified Sanborn Library search results in this report can be authenticated by visiting www.edrnet.com/sanborn and entering the certification number. Only Environmental Data Resources Inc. (EDR) is authorized to grant rights for commercial reproduction of maps by Sanborn Library LLC, the copyright holder for the collection.

Certified Sanborn Results:

Site Name: Old Lackawanna Mill Site

Address: Lackawanna Road City, State, Zip: Ely, NV 89301

Cross Street:

P.O. # NA

Project: LVBRN014
Certification # 8BBE-4F87-9F71

UNMAPPED PROPERTY

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



Sanborn® Library search results Certification # 8BBE-4F87-9F71

The Sanborn Library includes more than 1.2 million Sanborn fire insurance maps, which track historical property usage in approximately 12,000 American cities and towns. Collections searched:

Library of Congress

University Publications of America

▼ EDR Private Collection

The Sanborn Library LLC Since 1866™

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Old Lackawanna Mill Site

Lackawanna Road Ely, NV 89301

Inquiry Number: 3338816.4

June 07, 2012

EDR Historical Topographic Map Report



EDR Historical Topographic Map Report

Environmental Data Resources, Inc.s (EDR) Historical Topographic Map Report is designed to assist professionals in evaluating potential liability on a target property resulting from past activities. EDRs Historical Topographic Map Report includes a search of a collection of public and private color historical topographic maps, dating back to the early 1900s.

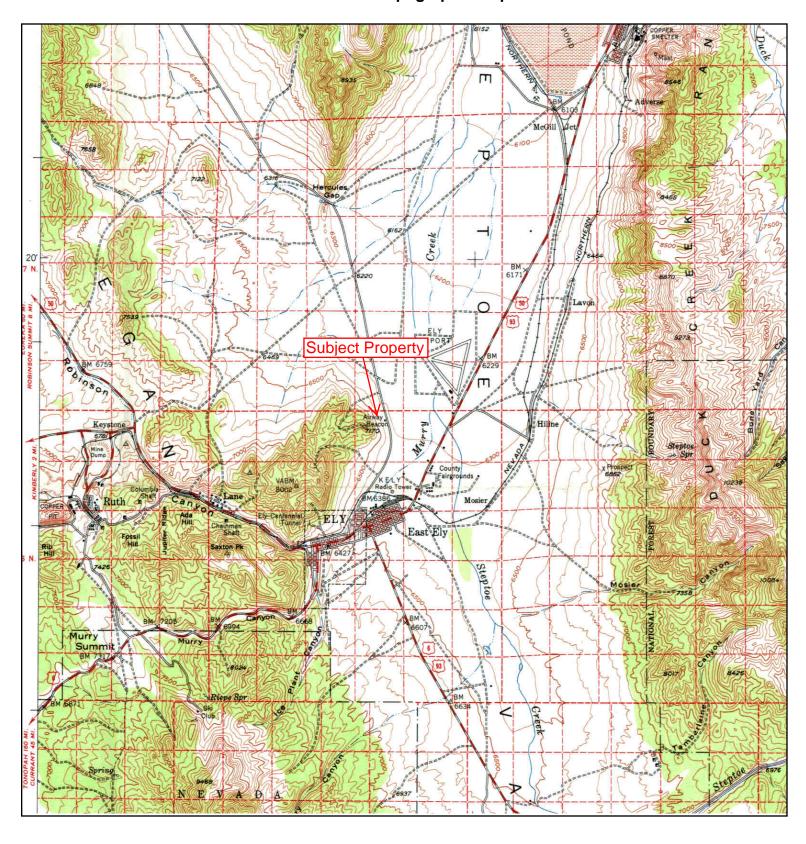
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TARGET QUAD NAME: ELY

MAP YEAR: 1952

SERIES: 30 SCALE: 1:125000 SITE NAME: Old Lackawanna Mill

Site

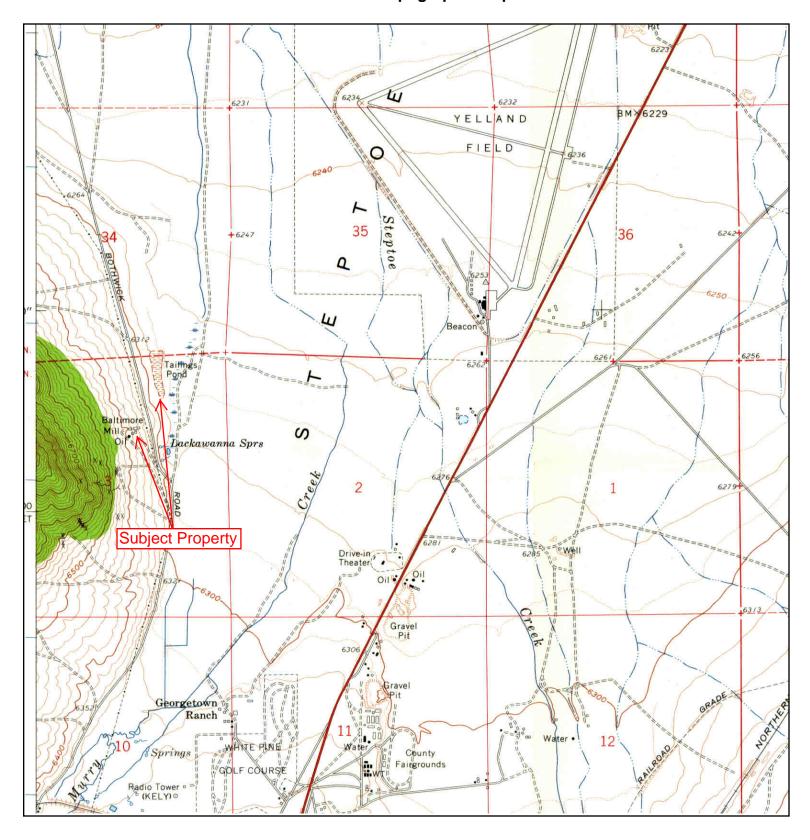
ADDRESS: Lackawanna Road

Ely, NV 89301

LAT/LONG: 39.2853 / -114.8687

CLIENT: McGinley Associates

CONTACT: Brett Bottenberg INQUIRY#: 3338816.4 RESEARCH DATE: 06/07/2012





TARGET QUAD

NAME: EAST ELY

MAP YEAR: 1958

SERIES: 7.5 SCALE: 1:24000 SITE NAME: Old Lackawanna Mill

Site

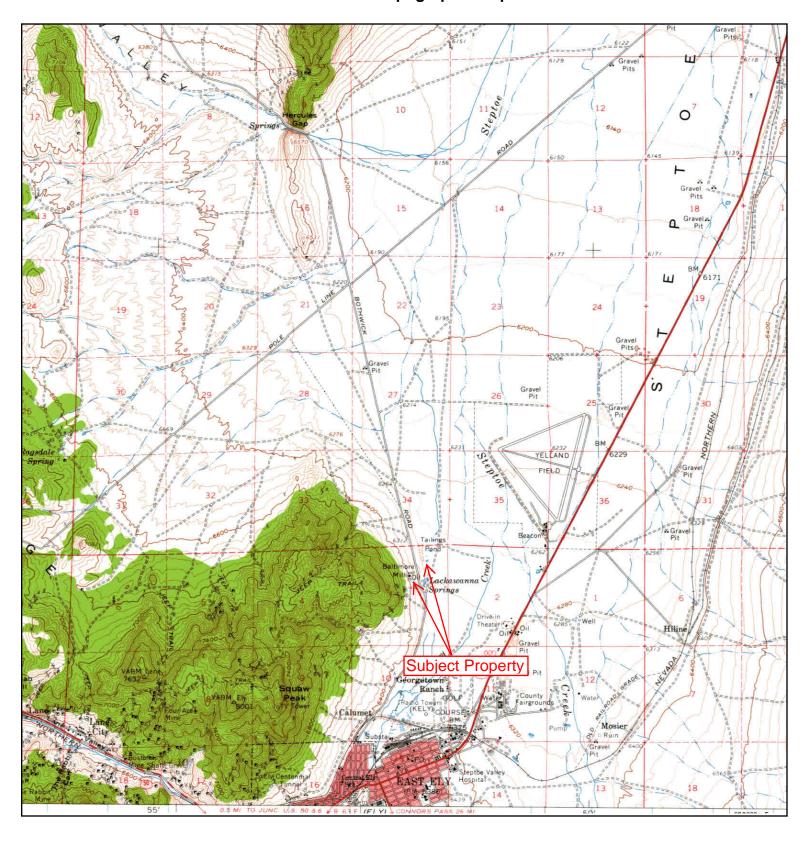
ADDRESS: Lackawanna Road

Ely, NV 89301

LAT/LONG: 39.2853 / -114.8687

CLIENT: McGinley Associates

CONTACT: Brett Bottenberg INQUIRY#: 3338816.4 RESEARCH DATE: 06/07/2012





TARGET QUAD NAME: MCGILL

MAP YEAR: 1958

SERIES: 15 SCALE: 1:62500 SITE NAME: Old Lackawanna Mill

Site

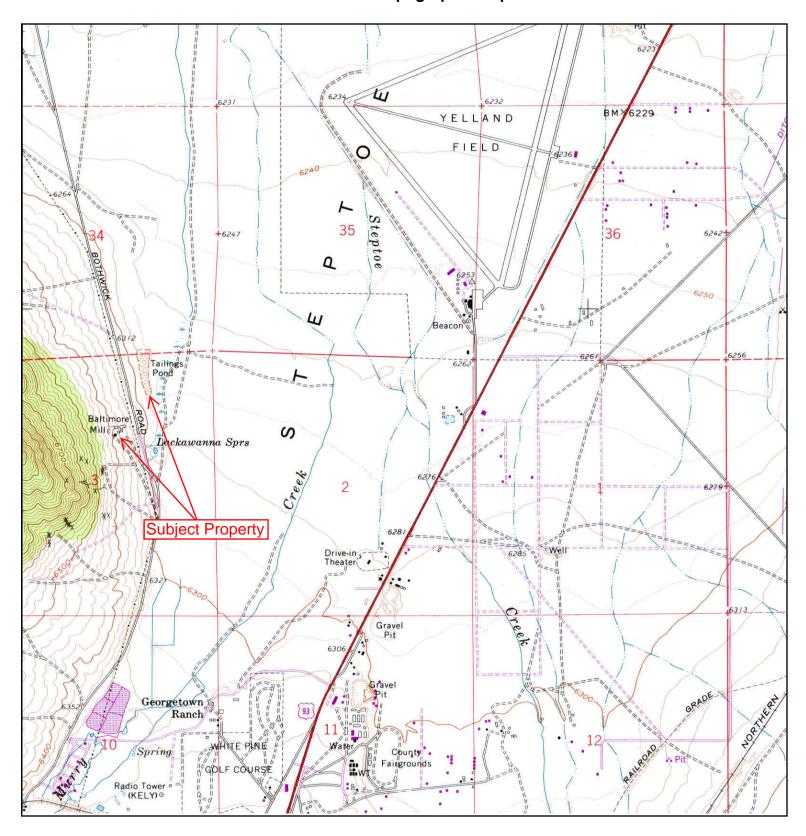
ADDRESS: Lackawanna Road

Ely, NV 89301

LAT/LONG: 39.2853 / -114.8687

CLIENT: McGinley Associates

CONTACT: Brett Bottenberg
INQUIRY#: 3338816.4
RESEARCH DATE: 06/07/2012





TARGET QUAD

NAME: EAST ELY MAP YEAR: 1979

PHOTOREVISED FROM:1958

SERIES: 7.5 SCALE: 1:24000 SITE NAME: Old Lackawanna Mill

Site

ADDRESS: Lackawanna Road

Ely, NV 89301

LAT/LONG: 39.2853 / -114.8687

CLIENT: McGinley Associates

CONTACT: Brett Bottenberg INQUIRY#: 3338816.4 RESEARCH DATE: 06/07/2012

APPENDIX F

EDR Radius Map Report

Old Lackawanna Mill Site

Lackawanna Road Ely, NV 89301

Inquiry Number: 3338816.2s

June 07, 2012

The EDR Radius Map™ Report with GeoCheck®

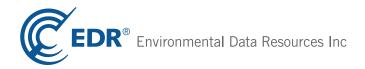


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| Map Findings | 7 |
| Orphan Summary | |
| Government Records Searched/Data Currency Tracking | GR-1 |
| GEOCHECK ADDENDUM | |
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| Physical Setting SSURGO Soil Map. | A-5 |
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Thank you for your business.Please contact EDR at 1-800-352-0050 with any questions or comments.

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A search of available environmental records was conducted by Environmental Data Resources, Inc (EDR). The report was designed to assist parties seeking to meet the search requirements of EPA's Standards and Practices for All Appropriate Inquiries (40 CFR Part 312), the ASTM Standard Practice for Environmental Site Assessments (E 1527-05) or custom requirements developed for the evaluation of environmental risk associated with a parcel of real estate.

TARGET PROPERTY INFORMATION

ADDRESS

LACKAWANNA ROAD ELY, NV 89301

COORDINATES

Latitude (North): 39.2853000 - 39° 17' 7.08" Longitude (West): 114.8687000 - 114° 52' 7.32"

Universal Tranverse Mercator: Zone 11 UTM X (Meters): 683822.8 UTM Y (Meters): 4350394.0

Elevation: 6372 ft. above sea level

USGS TOPOGRAPHIC MAP ASSOCIATED WITH TARGET PROPERTY

Target Property Map: 39114-C7 EAST ELY, NV

Most Recent Revision: 1979

West Map: 39114-C8 RUTH, NV

Most Recent Revision: 1979

AERIAL PHOTOGRAPHY IN THIS REPORT

Photo Year: 2010 Source: USDA

TARGET PROPERTY SEARCH RESULTS

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

DATABASES WITH NO MAPPED SITES

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

STANDARD ENVIRONMENTAL RECORDS

| Federal NPL site list | |
|-----------------------|------------------------|
| NPL | National Priority List |

Proposed NPL..... Proposed National Priority List Sites NPL LIENS..... Federal Superfund Liens Federal Delisted NPL site list Delisted NPL..... National Priority List Deletions Federal CERCLIS list CERCLIS.... FEDERAL FACILITY..... Federal Facility Site Information listing Federal CERCLIS NFRAP site List CERC-NFRAP..... CERCLIS No Further Remedial Action Planned Federal RCRA CORRACTS facilities list CORRACTS..... Corrective Action Report Federal RCRA non-CORRACTS TSD facilities list RCRA-TSDF...... RCRA - Treatment, Storage and Disposal Federal RCRA generators list RCRA-LQG______RCRA - Large Quantity Generators RCRA-SQG...... RCRA - Small Quantity Generators RCRA-CESQG..... RCRA - Conditionally Exempt Small Quantity Generator Federal institutional controls / engineering controls registries US ENG CONTROLS..... Engineering Controls Sites List US INST CONTROL..... Sites with Institutional Controls Federal ERNS list ERNS..... Emergency Response Notification System State- and tribal - equivalent CERCLIS SHWS..... Sites Database State and tribal landfill and/or solid waste disposal site lists SWF/LF.....Landfill List State and tribal leaking storage tank lists Sites Database INDIAN LUST..... Leaking Underground Storage Tanks on Indian Land State and tribal registered storage tank lists UST_____ Underground Storage Tank List

AST..... Aboveground Storage Tank List

INDIAN UST...... Underground Storage Tanks on Indian Land

FEMA UST...... Underground Storage Tank Listing

State and tribal voluntary cleanup sites

VCP......Voluntary Cleanup Program Sites INDIAN VCP.....Voluntary Cleanup Priority Listing

State and tribal Brownfields sites

BROWNFIELDS..... Project Tracking Database

ADDITIONAL ENVIRONMENTAL RECORDS

Local Brownfield lists

US BROWNFIELDS..... A Listing of Brownfields Sites

Local Lists of Landfill / Solid Waste Disposal Sites

DEBRIS REGION 9..... Torres Martinez Reservation Illegal Dump Site Locations

INDIAN ODI...... Report on the Status of Open Dumps on Indian Lands

Local Lists of Hazardous waste / Contaminated Sites

US CDL..... Clandestine Drug Labs

US HIST CDL..... National Clandestine Laboratory Register

Local Land Records

LIENS 2..... CERCLA Lien Information

LUCIS..... Land Use Control Information System

Records of Emergency Release Reports

HMIRS..... Hazardous Materials Information Reporting System

Other Ascertainable Records

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

TSCA..... Toxic Substances Control Act

FTTS_____FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide

Act)/TSCA (Toxic Substances Control Act)

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

SSTS..... Section 7 Tracking Systems

ICIS...... Integrated Compliance Information System

PADS...... PCB Activity Database System MLTS..... Material Licensing Tracking System RADINFO...... Radiation Information Database

FINDS..... Facility Index System/Facility Registry System RAATS...... RCRA Administrative Action Tracking System

NPDES..... Permitted Facility Listing AIRS..... Permitted Airs Facility Listing

HMRI......Hazardous Materials Repository Information Data

INDIAN RESERV..... Indian Reservations

SCRD DRYCLEANERS...... State Coalition for Remediation of Drycleaners Listing COAL ASH EPA...... Coal Combustion Residues Surface Impoundments List PCB TRANSFORMER...... PCB Transformer Registration Database

EPA WATCH LIST..... EPA WATCH LIST

COAL ASH DOE..... Sleam-Electric Plan Operation Data

EDR PROPRIETARY RECORDS

EDR Proprietary Records

Manufactured Gas Plants____ EDR Proprietary Manufactured Gas Plants

SURROUNDING SITES: SEARCH RESULTS

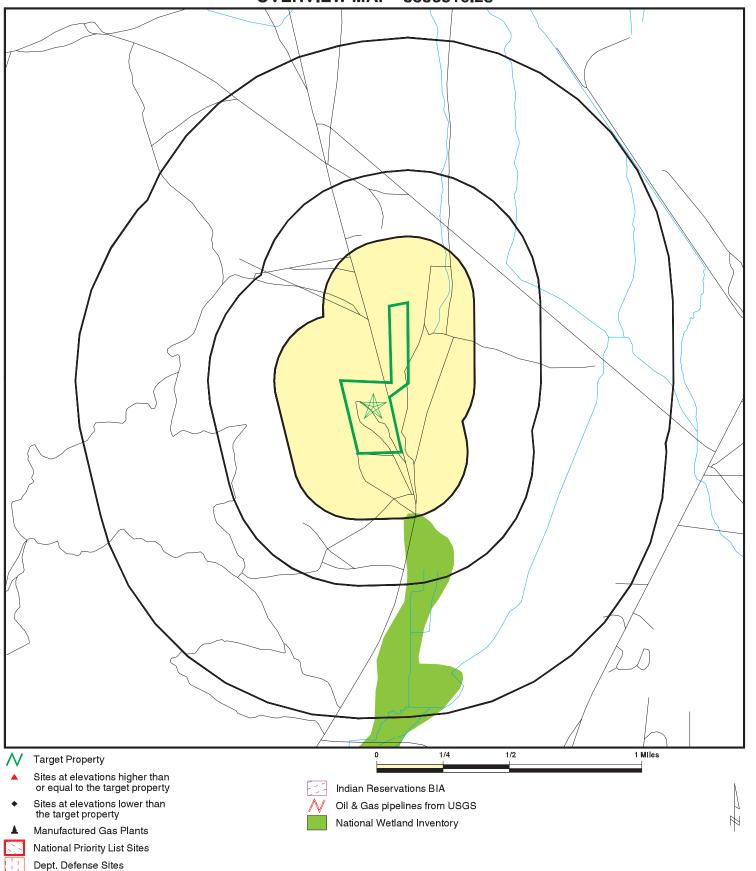
Surrounding sites were not identified.

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

Due to poor or inadequate address information, the following sites were not mapped. Count: 42 records.

| Site Name | Database(s) | |
|------------------------------------|--------------------|--|
| SWIMMING POOL | SHWS | |
| MT. WHEELER POWER, INC. | SHWS | |
| SIERRA PACIFIC POWER COMPANY | SHWS | |
| ELY MICROWAVE HEADQUARTERS | SHWS | |
| ELY MAXIMUM SECURITY PRISON | SHWS | |
| WHITE PINE COUNTY SHOP | SHWS | |
| KIMBERLY RADIO SITE | SHWS | |
| MAJORS STATION | SHWS | |
| FORMAN RANCH | SHWS | |
| ROBINSON MINE , ROBINSON MINE WARE | SHWS | |
| GOICOECHEA RANCH | SHWS | |
| BALD MOUNTAIN MINE | SHWS | |
| COLD CREEK TRAILER PARK | SHWS, UST | |
| FIRST SECURITY WAREHOUSE | SHWS | |
| IRON EAGLE EXPRESS MOBILE SOURCE , | SHWS | |
| SILVER SAGE TRAVEL CENTER , SINCLA | SHWS | |
| NEVADA DEPARTMENT OF TRANSPORTATIO | SHWS, LUST | |
| ELY CONSERVATION CAMP | SHWS | |
| AL PARK PETROLEUM | SHWS | |
| GALE OIL AND TIRE BULK FUEL | SHWS | |
| AIRCRAFT FUEL JETTISON | SHWS | |
| EGAN MILLING CO INC | CERCLIS, FINDS | |
| OLD WHITE PINE COUNTY DUMP | CERC-NFRAP | |
| ELY JET CENTER | UST | |
| COUNTY ROAD SHOP | UST | |
| TRAILSIDE GENERAL STORE - CLOSED | UST | |
| AIRPORT TERMINAL | UST | |
| FAA-CLOSED | UST | |
| KOA OF ELY-CLOSED | UST | |
| MAJORS PLACE-CLOSED | UST | |
| MUNSON RANCH OIL FIELD | UST | |
| SAME AS 6-000413 | UST | |
| NDOT-ELY-CLOSED | UST | |
| NDOT-ELY-CLOSED | UST | |
| SAME AS 6000413 | AST | |
| USDOI BLM ELY | RCRA-NonGen, FINDS | |
| GREAT BASIN IRRIGATION CO | RCRA-NonGen, FINDS | |
| TRANS SECURITY ADMIN (TSA) WHITE P | RCRA-NonGen | |
| OLD ELY LANDFILL | FINDS | |
| ROBINSON SUMMIT SUBSTATION SITE B | FINDS | |
| OLD ELY LANDFILL | US BROWNFIELDS | |
| ELY-SHOSHONE SILVER SAGE TRAVEL CE | INDIAN UST | |

OVERVIEW MAP - 3338816.2s



This report includes Interactive Map Layers to display and/or hide map information. The legend includes only those icons for the default map view.

SITE NAME: Old Lackawanna Mill Site

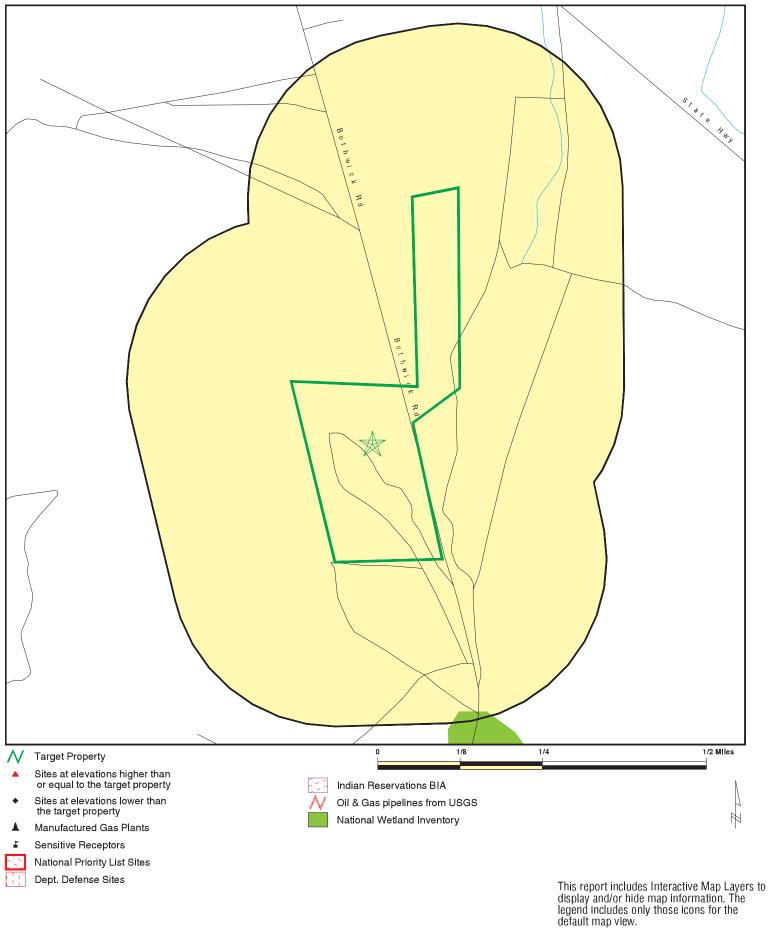
ADDRESS: Lackawanna Road
Ely NV 89301

LAT/LONG: 39.2853 / 114.8687

CLIENT: McGinley Associates
CONTACT: Brett Bottenberg
INQUIRY #: 3338816.2s
DATE: June 07, 2012 11:57 am

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DETAIL MAP - 3338816.2s



MAP FINDINGS SUMMARY

| Database | Search Distance (Miles) | Target Property | < 1/8 | 1/8 - 1/4 | 1/4 - 1/2 | 1/2 - 1 | > 1 | Total Plotted |
|---|-------------------------------|--------------------|--------------|--------------|----------------|----------------|----------------|------------------|
| STANDARD ENVIRONMENT | AL RECORDS | | | | | | | |
| Federal NPL site list | | | | | | | | |
| NPL Proposed NPL NPL LIENS | 1.000 1.000 TP | | 0 0 NR | 0 0 NR | 0 0 NR | 0 0 NR | NR NR NR | 0 0 0 |
| Federal Delisted NPL site | e list | | | | | | | |
| Delisted NPL | 1.000 | | 0 | 0 | 0 | 0 | NR | 0 |
| Federal CERCLIS list | | | | | | | | |
| CERCLIS FEDERAL FACILITY | 0.500 1.000 | | 0 0 | 0 0 | 0 0 | NR 0 | NR NR | 0 0 |
| Federal CERCLIS NFRAF | site List | | | | | | | |
| CERC-NFRAP | 0.500 | | 0 | 0 | 0 | NR | NR | 0 |
| Federal RCRA CORRACT | TS facilities li | st | | | | | | |
| CORRACTS | 1.000 | | 0 | 0 | 0 | 0 | NR | 0 |
| Federal RCRA non-CORI | RACTS TSD f | acilities list | | | | | | |
| RCRA-TSDF | 0.500 | | 0 | 0 | 0 | NR | NR | 0 |
| Federal RCRA generator | s list | | | | | | | |
| RCRA-LQG RCRA-SQG RCRA-CESQG | 0.250 0.250 0.250 | | 0 0 0 | 0 0 0 | NR NR NR | NR NR NR | NR NR NR | 0 0 0 |
| Federal institutional contents regineering controls reg | | | | | | | | |
| US ENG CONTROLS US INST CONTROL | 0.500 0.500 | | 0 0 | 0 0 | 0 0 | NR NR | NR NR | 0 0 |
| Federal ERNS list | | | | | | | | |
| ERNS | TP | | NR | NR | NR | NR | NR | 0 |
| State- and tribal - equival | lent CERCLIS | 3 | | | | | | |
| SHWS | 1.000 | | 0 | 0 | 0 | 0 | NR | 0 |
| State and tribal landfill a solid waste disposal site | | | | | | | | |
| SWF/LF | 0.500 | | 0 | 0 | 0 | NR | NR | 0 |
| State and tribal leaking s | torage tank l | ists | | | | | | |
| LUST INDIAN LUST | 0.500 0.500 | | 0 0 | 0 0 | 0 0 | NR NR | NR NR | 0 0 |
| State and tribal registere | d storage tar | ık lists | | | | | | |
| UST | 0.250 | | 0 | 0 | NR | NR | NR | 0 |

MAP FINDINGS SUMMARY

| Database | Search Distance (Miles) | Target Property | < 1/8 | 1/8 - 1/4 | 1/4 - 1/2 | 1/2 - 1 | > 1 | Total Plotted |
|---|--|--------------------|---|--|----------------------------------|--|--|--------------------------------------|
| AST INDIAN UST FEMA UST | 0.250 0.250 0.250 | | 0 0 0 | 0 0 0 | NR NR NR | NR NR NR | NR NR NR | 0 0 0 |
| State and tribal voluntary | y cleanup site | es | | | | | | |
| VCP INDIAN VCP | 0.500 0.500 | | 0 0 | 0 0 | 0 0 | NR NR | NR NR | 0 0 |
| State and tribal Brownfie | elds sites | | | | | | | |
| BROWNFIELDS | 0.500 | | 0 | 0 | 0 | NR | NR | 0 |
| ADDITIONAL ENVIRONMEN | TAL RECORDS | <u>3</u> | | | | | | |
| Local Brownfield lists | | | | | | | | |
| US BROWNFIELDS | 0.500 | | 0 | 0 | 0 | NR | NR | 0 |
| Local Lists of Landfill / S Waste Disposal Sites | Solid | | | | | | | |
| DEBRIS REGION 9 | 0.500 | | 0 | 0 | 0 | NR | NR | 0 |
| ODI SWRCY | 0.500 0.500 | | 0 0 | 0 0 | 0 0 | NR NR | NR NR | 0 0 |
| INDIAN ODI | 0.500 | | 0 | 0 | 0 | NR | NR | 0 |
| Local Lists of Hazardous Contaminated Sites | s waste / | | | | | | | |
| US CDL US HIST CDL | TP TP | | NR NR | NR NR | NR NR | NR NR | NR NR | 0 |
| Local Land Records | | | | | | | | |
| LIENS 2 LUCIS | TP 0.500 | | NR 0 | NR 0 | NR 0 | NR NR | NR NR | 0 0 |
| Records of Emergency F | Release Repo | rts | | | | | | |
| HMIRS | TP | | NR | NR | NR | NR | NR | 0 |
| Other Ascertainable Rec | ords | | | | | | | |
| RCRA-NonGen DOT OPS DOD FUDS CONSENT ROD UMTRA MINES TRIS TSCA FTTS HIST FTTS SSTS ICIS | 0.250 TP 1.000 1.000 1.000 0.500 0.250 TP TP TP TP TP | | 0 NR 0 0 0 0 NR NR NR NR NR | 0 NR 0 0 0 0 0 NR NR NR NR NR NR | NR NR 0 0 0 NR NR NR NR NR NR NR | NR NR 0 0 0 NR NR NR NR NR NR NR NR NR | NR NR NR NR NR NR NR NR NR NR | 0 0 0 0 0 0 0 0 |

MAP FINDINGS SUMMARY

| Database | Search Distance (Miles) | Target Property | < 1/8 | 1/8 - 1/4 | 1/4 - 1/2 | 1/2 - 1 | > 1 | Total Plotted |
|-------------------------|-------------------------------|--------------------|-------|-----------|-----------|---------|-----|------------------|
| PADS | TP | | NR | NR | NR | NR | NR | 0 |
| MLTS | TP | | NR | NR | NR | NR | NR | 0 |
| RADINFO | TP | | NR | NR | NR | NR | NR | 0 |
| FINDS | TP | | NR | NR | NR | NR | NR | 0 |
| RAATS | TP | | NR | NR | NR | NR | NR | 0 |
| NPDES | TP | | NR | NR | NR | NR | NR | 0 |
| AIRS | TP | | NR | NR | NR | NR | NR | 0 |
| HMRI | TP | | NR | NR | NR | NR | NR | 0 |
| INDIAN RESERV | 1.000 | | 0 | 0 | 0 | 0 | NR | 0 |
| SCRD DRYCLEANERS | 0.500 | | 0 | 0 | 0 | NR | NR | 0 |
| COAL ASH EPA | 0.500 | | 0 | 0 | 0 | NR | NR | 0 |
| PCB TRANSFORMER | TP | | NR | NR | NR | NR | NR | 0 |
| EPA WATCH LIST | TP | | NR | NR | NR | NR | NR | 0 |
| COAL ASH | 0.500 | | 0 | 0 | 0 | NR | NR | 0 |
| FINANCIAL ASSURANCE | | | NR | NR | NR | NR | NR | 0 |
| 2020 CORRECTIVE ACTI | | | 0 | 0 | NR | NR | NR | 0 |
| COAL ASH DOE | TP | | NR | NR | NR | NR | NR | 0 |
| EDR PROPRIETARY RECOR | RDS | | | | | | | |
| EDR Proprietary Record | s | | | | | | | |
| Manufactured Gas Plants | 1.000 | | 0 | 0 | 0 | 0 | NR | 0 |

NOTES:

TP = Target Property

NR = Not Requested at this Search Distance

Sites may be listed in more than one database

| Map ID | | MAP FINDINGS | | |
|-----------|------|--------------|-------------|---------------|
| Direction | | | 1 | EDD 10 11 1 |
| Distance | | | | EDR ID Number |
| Elevation | Site | | Database(s) | EPA ID Number |

NO SITES FOUND

| City | EDR ID | Site Name | Site Address | Zip | Database(s) |
|-------------------|------------|------------------------------------|--------------------------------|-------|--------------------|
| ELY | 1000200347 | USDOI BLM ELY | SR 5 BOX 1 PIOCHE HWY | 89301 | RCRA-NonGen, FINDS |
| ELY | U003379520 | SAME AS 6000413 | HWY 6 | 89301 | AST |
| ELY | S103875665 | SWIMMING POOL | AULTMAN ST | 89301 | SHWS |
| ELY | 1003879359 | OLD WHITE PINE COUNTY DUMP | 1/4 MI E OF PIOCHE HWY AND HER | 89301 | CERC-NFRAP |
| ELY | S105488564 | MT. WHEELER POWER, INC. | GONDER SUBSTATION | | SHWS |
| ELY | S105488570 | SIERRA PACIFIC POWER COMPANY | GONDER SUBSTATION | | SHWS |
| ELY | S106514191 | ELY MICROWAVE HEADQUARTERS | INDUSTRIAL AND AVENUE A & NE | | SHWS |
| ELY | 1012115272 | OLD ELY LANDFILL | INTERSECTION OF MADISON AND MI | 89301 | FINDS |
| ELY | 1009569533 | OLD ELY LANDFILL | INTERSECTION OF MADISON AND MI | 89301 | US BROWNFIELDS |
| ELY | S103877555 | ELY MAXIMUM SECURITY PRISON | 4488 N LAKAWANA | 89301 | SHWS |
| ELY | U001153433 | ELY JET CENTER | 1470 N MCGILL HWY | 89301 | UST |
| ELY | U004161207 | COUNTY ROAD SHOP | MCGILL HWY | 89301 | UST |
| ELY | U004161206 | TRAILSIDE GENERAL STORE - CLOSED | MCGILL HWY | 89301 | UST |
| ELY | U004161208 | AIRPORT TERMINAL | MCGILL HWY | 89301 | UST |
| ELY | U004161209 | FAA-CLOSED | MCGILL HWY | 89301 | UST |
| ELY | 1000833249 | GREAT BASIN IRRIGATION CO | 51 MCGILL HWY | 89301 | RCRA-NonGen, FINDS |
| ELY | S103877554 | WHITE PINE COUNTY SHOP | MCGILL HWY | 89301 | SHWS |
| ELY | 1010787280 | TRANS SECURITY ADMIN (TSA) WHITE P | 1472 MCGILL HWY | 89301 | RCRA-NonGen |
| ELY | S106514186 | KIMBERLY RADIO SITE | 5 MILES NORTH OF KIMBERLY MOUN | 89301 | SHWS |
| ELY | S103875686 | MAJORS STATION | 28 MILES SOUTH OF ELY | 89301 | SHWS |
| ELY | 1000305602 | EGAN MILLING CO INC | 1 MI N OF CY OF ELY SAN LDFL | 89301 | CERCLIS, FINDS |
| ELY | S109521844 | FORMAN RANCH | NEAR ELY | 89301 | SHWS |
| ELY | U004161107 | KOA OF ELY-CLOSED | PIOCHE HWY | 89301 | UST |
| ELY | 1009393633 | ELY-SHOSHONE SILVER SAGE TRAVEL CE | 963 PIOCHE HIGHWAY, ELY NV 893 | 89301 | INDIAN UST |
| ELY | 1014808143 | ROBINSON SUMMIT SUBSTATION SITE B | S RD APPROX 5 | 89301 | FINDS |
| ELY | S109521947 | ROBINSON MINE , ROBINSON MINE WARE | RURAL | | SHWS |
| ELY | S108250118 | GOICOECHEA RANCH | STHY 892 & MILEPOST 30 | 89301 | SHWS |
| ELY | S104178967 | BALD MOUNTAIN MINE | STHY 228 OF JIGGS S | 89301 | SHWS |
| ELY | U001110887 | COLD CREEK TRAILER PARK | N STRAWBERRY RD | 89301 | SHWS, UST |
| ELY | S108250098 | FIRST SECURITY WAREHOUSE | USHY 93 | | SHWS |
| ELY | U004161259 | MAJORS PLACE-CLOSED | USHY 93 & USHY 50 | 89301 | UST |
| ELY | U004161289 | MUNSON RANCH OIL FIELD | USHY 6 | 89301 | UST |
| ELY | U004161398 | SAME AS 6-000413 | USHY 6 | 89301 | UST |
| ELY | U004161343 | NDOT-ELY-CLOSED | USHY 6 | 89301 | UST |
| ELY | U004161134 | NDOT-ELY-CLOSED | USHY 93 ALT | 89301 | UST |
| ELY | S108437369 | IRON EAGLE EXPRESS MOBILE SOURCE , | USHY 6 | | SHWS |
| ELY | S108437370 | SILVER SAGE TRAVEL CENTER , SINCLA | 963 USHY 50 | | SHWS |
| ELY | | NEVADA DEPARTMENT OF TRANSPORTATIO | 6580 USHY 6 NY - | | SHWS, LUST |
| ELY | | ELY CONSERVATION CAMP | 16 USHY 93 MILES SOUTH | | SHWS |
| ELY | | AL PARK PETROLEUM | YANKEE MINE | 89301 | SHWS |
| ELY | | GALE OIL AND TIRE BULK FUEL | - | 89301 | |
| WHITE PINE COUNTY | S109521789 | AIRCRAFT FUEL JETTISON | 25 MILES EAST OF ELY | | SHWS |

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

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

STANDARD ENVIRONMENTAL RECORDS

Federal NPL site list

NPL: National Priority List

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

Date of Government Version: 05/08/2012 Source: EPA
Date Data Arrived at EDR: 05/10/2012 Telephone: N/A

Number of Days to Update: 5 Next Scheduled EDR Contact: 07/23/2012
Data Release Frequency: Quarterly

NPL Site Boundaries

Sources

EPA's Environmental Photographic Interpretation Center (EPIC)

Telephone: 202-564-7333

EPA Region 1 EPA Region 6

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

EPA Region 3 EPA Region 7

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

EPA Region 4 EPA Region 8

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

EPA Region 5 EPA Region 9

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

EPA Region 10

Telephone 206-553-8665

Proposed NPL: Proposed National Priority List Sites

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

Date of Government Version: 03/30/2012 Source: EPA
Date Data Arrived at EDR: 04/05/2012 Telephone: N/A

Number of Days to Update: 40 Next Scheduled EDR Contact: 07/23/2012
Data Release Frequency: Quarterly

NPL LIENS: Federal Superfund Liens

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

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

Number of Days to Update: 56

Source: EPA

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

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

Federal Delisted NPL site list

DELISTED NPL: National Priority List Deletions

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

Date of Government Version: 03/30/2012 Date Data Arrived at EDR: 04/05/2012 Date Made Active in Reports: 05/15/2012

Number of Days to Update: 40

Source: EPA Telephone: N/A

Last EDR Contact: 04/05/2012 Next Scheduled EDR Contact: 07/23/2012

Data Release Frequency: Quarterly

Federal CERCLIS list

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

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

Date of Government Version: 12/27/2011 Date Data Arrived at EDR: 02/27/2012 Date Made Active in Reports: 03/12/2012

Number of Days to Update: 14

Source: EPA

Telephone: 703-412-9810 Last EDR Contact: 05/29/2012

Next Scheduled EDR Contact: 09/10/2012 Data Release Frequency: Quarterly

FEDERAL FACILITY: Federal Facility Site Information listing

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

Date of Government Version: 12/10/2010 Date Data Arrived at EDR: 01/11/2011 Date Made Active in Reports: 02/16/2011

Number of Days to Update: 36

Source: Environmental Protection Agency

Telephone: 703-603-8704 Last EDR Contact: 04/12/2012

Next Scheduled EDR Contact: 07/23/2012 Data Release Frequency: Varies

Federal CERCLIS NFRAP site List

CERCLIS-NFRAP: CERCLIS No Further Remedial Action Planned

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

Date of Government Version: 12/28/2011 Date Data Arrived at EDR: 02/27/2012 Date Made Active in Reports: 03/12/2012

Number of Days to Update: 14

Source: EPA

Telephone: 703-412-9810 Last EDR Contact: 05/29/2012

Next Scheduled EDR Contact: 09/10/2012 Data Release Frequency: Quarterly

Federal RCRA CORRACTS facilities list

CORRACTS: Corrective Action Report

CORRACTS identifies hazardous waste handlers with RCRA corrective action activity.

Date of Government Version: 08/19/2011 Date Data Arrived at EDR: 08/31/2011 Date Made Active in Reports: 01/10/2012

Number of Days to Update: 132

Source: EPA

Telephone: 800-424-9346 Last EDR Contact: 05/15/2012

Next Scheduled EDR Contact: 08/27/2012 Data Release Frequency: Quarterly

Federal RCRA non-CORRACTS TSD facilities list

RCRA-TSDF: RCRA - Treatment, Storage and Disposal

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

Date of Government Version: 03/15/2012 Date Data Arrived at EDR: 04/04/2012 Date Made Active in Reports: 05/15/2012

Number of Days to Update: 41

Source: Environmental Protection Agency

Telephone: (415) 495-8895 Last EDR Contact: 04/04/2012

Next Scheduled EDR Contact: 07/16/2012 Data Release Frequency: Quarterly

Federal RCRA generators list

RCRA-LQG: RCRA - Large Quantity Generators

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

Date of Government Version: 03/15/2012 Date Data Arrived at EDR: 04/04/2012 Date Made Active in Reports: 05/15/2012

Number of Days to Update: 41

Source: Environmental Protection Agency

Telephone: (415) 495-8895 Last EDR Contact: 04/04/2012

Next Scheduled EDR Contact: 07/16/2012 Data Release Frequency: Quarterly

RCRA-SQG: RCRA - Small Quantity Generators

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

Date of Government Version: 03/15/2012 Date Data Arrived at EDR: 04/04/2012 Date Made Active in Reports: 05/15/2012

Number of Days to Update: 41

Source: Environmental Protection Agency

Telephone: (415) 495-8895 Last EDR Contact: 04/04/2012

Next Scheduled EDR Contact: 07/16/2012 Data Release Frequency: Quarterly

RCRA-CESQG: RCRA - Conditionally Exempt Small Quantity Generators

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

Date of Government Version: 03/15/2012 Date Data Arrived at EDR: 04/04/2012 Date Made Active in Reports: 05/15/2012

Number of Days to Update: 41

Source: Environmental Protection Agency

Telephone: (415) 495-8895 Last EDR Contact: 04/04/2012

Next Scheduled EDR Contact: 07/16/2012 Data Release Frequency: Varies

Federal institutional controls / engineering controls registries

US ENG CONTROLS: Engineering Controls Sites List

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

Date of Government Version: 12/30/2011 Date Data Arrived at EDR: 12/30/2011 Date Made Active in Reports: 01/10/2012

Number of Days to Update: 11

Source: Environmental Protection Agency

Telephone: 703-603-0695 Last EDR Contact: 03/12/2012

Next Scheduled EDR Contact: 06/25/2012 Data Release Frequency: Varies

US INST CONTROL: Sites with Institutional Controls

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

Date of Government Version: 12/30/2011 Date Data Arrived at EDR: 12/30/2011 Date Made Active in Reports: 01/10/2012

Number of Days to Update: 11

Source: Environmental Protection Agency

Telephone: 703-603-0695 Last EDR Contact: 03/12/2012

Next Scheduled EDR Contact: 06/25/2012 Data Release Frequency: Varies

Federal ERNS list

ERNS: Emergency Response Notification System

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

Date of Government Version: 10/03/2011 Date Data Arrived at EDR: 10/04/2011 Date Made Active in Reports: 11/11/2011

Number of Days to Update: 38

Source: National Response Center, United States Coast Guard

Telephone: 202-267-2180 Last EDR Contact: 04/03/2012

Next Scheduled EDR Contact: 07/16/2012 Data Release Frequency: Annually

State- and tribal - equivalent CERCLIS

SHWS: Sites Database

A listing of correction action sites.

Date of Government Version: 01/19/2012 Date Data Arrived at EDR: 03/28/2012 Date Made Active in Reports: 05/01/2012

Number of Days to Update: 34

Source: Department of Conservation and Natural Resources

Telephone: 775-687-5872 Last EDR Contact: 03/28/2012

Next Scheduled EDR Contact: 07/09/2012 Data Release Frequency: Varies

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

SWF/LF: Landfill List

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

Date of Government Version: 01/17/2012 Date Data Arrived at EDR: 03/07/2012 Date Made Active in Reports: 03/26/2012

Number of Days to Update: 19

Source: Department of Conservation and Natural Resources

Telephone: 775-687-5872 Last EDR Contact: 03/07/2012

Next Scheduled EDR Contact: 06/18/2012 Data Release Frequency: Annually

State and tribal leaking storage tank lists

LUST: Sites Database

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

Date of Government Version: 01/19/2012 Date Data Arrived at EDR: 03/28/2012 Date Made Active in Reports: 05/01/2012

Number of Days to Update: 34

Source: Department of Conservation and Natural Resources

Telephone: 775-687-5872 Last EDR Contact: 03/28/2012

Next Scheduled EDR Contact: 07/09/2012 Data Release Frequency: Varies

INDIAN LUST R8: Leaking Underground Storage Tanks on Indian Land

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

Date of Government Version: 08/18/2011 Date Data Arrived at EDR: 08/19/2011 Date Made Active in Reports: 09/13/2011

Number of Days to Update: 25

Source: EPA Region 8 Telephone: 303-312-6271 Last EDR Contact: 04/30/2012

Next Scheduled EDR Contact: 08/13/2012 Data Release Frequency: Quarterly

INDIAN LUST R7: Leaking Underground Storage Tanks on Indian Land

LUSTs on Indian land in Iowa, Kansas, and Nebraska

Date of Government Version: 02/07/2012 Date Data Arrived at EDR: 02/17/2012 Date Made Active in Reports: 05/15/2012

Number of Days to Update: 88

Source: EPA Region 7 Telephone: 913-551-7003 Last EDR Contact: 04/30/2012

Next Scheduled EDR Contact: 08/13/2012 Data Release Frequency: Varies

INDIAN LUST R6: Leaking Underground Storage Tanks on Indian Land

LUSTs on Indian land in New Mexico and Oklahoma.

Date of Government Version: 09/12/2011 Date Data Arrived at EDR: 09/13/2011 Date Made Active in Reports: 11/11/2011

Number of Days to Update: 59

Source: EPA Region 6 Telephone: 214-665-6597 Last EDR Contact: 04/23/2012

Next Scheduled EDR Contact: 08/13/2012 Data Release Frequency: Varies

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

Date of Government Version: 10/01/2011 Date Data Arrived at EDR: 11/01/2011 Date Made Active in Reports: 11/11/2011

Number of Days to Update: 10

Source: EPA Region 1 Telephone: 617-918-1313 Last EDR Contact: 05/01/2012

Next Scheduled EDR Contact: 08/13/2012 Data Release Frequency: Varies

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

Date of Government Version: 02/01/2012 Date Data Arrived at EDR: 02/02/2012 Date Made Active in Reports: 05/15/2012

Number of Days to Update: 103

Source: EPA Region 10 Telephone: 206-553-2857 Last EDR Contact: 04/30/2012

Next Scheduled EDR Contact: 08/13/2012 Data Release Frequency: Quarterly

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

Date of Government Version: 02/14/2012 Date Data Arrived at EDR: 02/17/2012 Date Made Active in Reports: 05/15/2012

Number of Days to Update: 88

Source: Environmental Protection Agency

Telephone: 415-972-3372 Last EDR Contact: 04/30/2012

Next Scheduled EDR Contact: 08/13/2012 Data Release Frequency: Quarterly

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

Date of Government Version: 12/14/2011 Date Data Arrived at EDR: 12/15/2011 Date Made Active in Reports: 01/10/2012

Number of Days to Update: 26

Source: EPA Region 4 Telephone: 404-562-8677 Last EDR Contact: 04/30/2012

Next Scheduled EDR Contact: 08/13/2012 Data Release Frequency: Semi-Annually

State and tribal registered storage tank lists

UST: Underground Storage Tank List

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

Date of Government Version: 01/19/2012 Date Data Arrived at EDR: 03/28/2012 Date Made Active in Reports: 05/01/2012

Number of Days to Update: 34

Source: Department of Conservation and Natural Resources

Telephone: 775-687-5872 Last EDR Contact: 03/28/2012

Next Scheduled EDR Contact: 07/09/2012 Data Release Frequency: Varies

AST: Aboveground Storage Tank List Registered Aboveground Storage Tanks.

Date of Government Version: 01/10/2000 Date Data Arrived at EDR: 01/11/2000 Date Made Active in Reports: 02/16/2000

Number of Days to Update: 36

Source: Department of Conservation and Natural Resources

Telephone: 775-687-5872 Last EDR Contact: 03/26/2012

Next Scheduled EDR Contact: 07/09/2012 Data Release Frequency: Varies

INDIAN UST R4: Underground Storage Tanks on Indian Land

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

Date of Government Version: 12/14/2011 Date Data Arrived at EDR: 12/15/2011 Date Made Active in Reports: 01/10/2012

Number of Days to Update: 26

Source: EPA Region 4 Telephone: 404-562-9424 Last EDR Contact: 04/30/2012

Next Scheduled EDR Contact: 08/13/2012 Data Release Frequency: Semi-Annually

INDIAN UST R1: Underground Storage Tanks on Indian Land

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

Date of Government Version: 10/01/2011 Date Data Arrived at EDR: 11/01/2011 Date Made Active in Reports: 11/11/2011

Number of Days to Update: 10

Source: EPA, Region 1 Telephone: 617-918-1313 Last EDR Contact: 05/01/2012

Next Scheduled EDR Contact: 08/13/2012 Data Release Frequency: Varies

INDIAN UST R10: Underground Storage Tanks on Indian Land

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

Date of Government Version: 02/01/2012 Date Data Arrived at EDR: 02/02/2012 Date Made Active in Reports: 05/15/2012

Number of Days to Update: 103

Source: EPA Region 10 Telephone: 206-553-2857 Last EDR Contact: 04/30/2012

Next Scheduled EDR Contact: 08/13/2012 Data Release Frequency: Quarterly

INDIAN UST R7: Underground Storage Tanks on Indian Land

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

Date of Government Version: 02/07/2012 Date Data Arrived at EDR: 02/17/2012 Date Made Active in Reports: 05/15/2012

Number of Days to Update: 88

Source: EPA Region 7 Telephone: 913-551-7003 Last EDR Contact: 04/30/2012

Next Scheduled EDR Contact: 08/13/2012 Data Release Frequency: Varies

INDIAN UST R8: Underground Storage Tanks on Indian Land

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

Date of Government Version: 08/18/2011 Date Data Arrived at EDR: 08/19/2011 Date Made Active in Reports: 09/13/2011

Number of Days to Update: 25

Source: EPA Region 8 Telephone: 303-312-6137 Last EDR Contact: 04/30/2012

Next Scheduled EDR Contact: 08/13/2012 Data Release Frequency: Quarterly

INDIAN UST R6: Underground Storage Tanks on Indian Land

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

Date of Government Version: 05/10/2011 Date Data Arrived at EDR: 05/11/2011 Date Made Active in Reports: 06/14/2011

Number of Days to Update: 34

Source: EPA Region 6 Telephone: 214-665-7591 Last EDR Contact: 04/23/2012

Next Scheduled EDR Contact: 08/13/2012 Data Release Frequency: Semi-Annually

INDIAN UST R5: Underground Storage Tanks on Indian Land

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

Date of Government Version: 02/28/2012 Date Data Arrived at EDR: 02/29/2012 Date Made Active in Reports: 05/15/2012

Number of Days to Update: 76

Source: EPA Region 5 Telephone: 312-886-6136 Last EDR Contact: 04/30/2012

Next Scheduled EDR Contact: 08/13/2012 Data Release Frequency: Varies

INDIAN UST R9: Underground Storage Tanks on Indian Land

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

Date of Government Version: 11/28/2011 Date Data Arrived at EDR: 11/29/2011 Date Made Active in Reports: 01/10/2012

Number of Days to Update: 42

Source: EPA Region 9 Telephone: 415-972-3368 Last EDR Contact: 04/30/2012

Next Scheduled EDR Contact: 08/13/2012 Data Release Frequency: Quarterly

FEMA UST: Underground Storage Tank Listing

A listing of all FEMA owned underground storage tanks.

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

Number of Days to Update: 55

Source: FEMA

Telephone: 202-646-5797 Last EDR Contact: 04/10/2012

Next Scheduled EDR Contact: 07/30/2012 Data Release Frequency: Varies

State and tribal voluntary cleanup sites

INDIAN VCP R7: Voluntary Cleanup Priority Lisitng

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

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

Number of Days to Update: 27

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

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

INDIAN VCP R1: Voluntary Cleanup Priority Listing

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

Date of Government Version: 02/17/2012 Date Data Arrived at EDR: 04/03/2012 Date Made Active in Reports: 05/15/2012

Number of Days to Update: 42

Source: EPA, Region 1 Telephone: 617-918-1102 Last EDR Contact: 04/03/2012

Next Scheduled EDR Contact: 07/16/2012 Data Release Frequency: Varies

VCP: Voluntary Cleanup Program Sites

The Voluntary Cleanup Program provides relief from liability to owners who undertake cleanups of contaminated properties under the oversight of the Nevada Division of Environmental Protection.

Date of Government Version: 08/16/2011 Date Data Arrived at EDR: 09/27/2011 Date Made Active in Reports: 10/12/2011

Number of Days to Update: 15

Source: Department of Conservation & Natural Resources

Telephone: 775-687-9381 Last EDR Contact: 03/30/2012

Next Scheduled EDR Contact: 07/09/2012 Data Release Frequency: Varies

State and tribal Brownfields sites

BROWNFIELDS: Project Tracking Database

Brownfields sites included in the Project Tracking Database. The term "brownfields" is used to describe abandoned, idled, or underused industrial or commercial properties taken out of productive use because of real or perceived risks from environmental contamination. The State of Nevada has initiated Brownfields, a land-recycling program, to provide an opportunity to redevelop these undesirable properties and revitalize communities.

Date of Government Version: 01/19/2012 Date Data Arrived at EDR: 03/28/2012 Date Made Active in Reports: 05/01/2012

Number of Days to Update: 34

Source: Division of Environmental Protection

Telephone: 775-687-9384 Last EDR Contact: 03/28/2012

Next Scheduled EDR Contact: 07/09/2012 Data Release Frequency: Varies

ADDITIONAL ENVIRONMENTAL RECORDS

Local Brownfield lists

US BROWNFIELDS: A Listing of Brownfields Sites

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

Date of Government Version: 06/27/2011 Date Data Arrived at EDR: 06/27/2011 Date Made Active in Reports: 09/13/2011

Number of Days to Update: 78

Source: Environmental Protection Agency

Telephone: 202-566-2777 Last EDR Contact: 04/03/2012

Next Scheduled EDR Contact: 07/09/2012 Data Release Frequency: Semi-Annually

Local Lists of Landfill / Solid Waste Disposal Sites

DEBRIS REGION 9: Torres Martinez Reservation Illegal Dump Site Locations

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

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

Number of Days to Update: 137

Source: EPA, Region 9 Telephone: 415-947-4219 Last EDR Contact: 03/26/2012

Next Scheduled EDR Contact: 07/09/2012 Data Release Frequency: No Update Planned

ODI: Open Dump Inventory

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

Subtitle D Criteria.

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

Number of Days to Update: 39

Source: Environmental Protection Agency

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

Data Release Frequency: No Update Planned

SWRCY: Recycling Information Listing
A listing of recycling facilities in Nevada.

Date of Government Version: 02/16/2012 Date Data Arrived at EDR: 02/24/2012 Date Made Active in Reports: 03/26/2012

Number of Days to Update: 31

Source: Department of Environmental Protection

Telephone: 775-687-9463 Last EDR Contact: 05/25/2012

Next Scheduled EDR Contact: 09/03/2012 Data Release Frequency: Varies

INDIAN ODI: Report on the Status of Open Dumps on Indian Lands

Location of open dumps on Indian land.

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

Number of Days to Update: 52

Source: Environmental Protection Agency

Telephone: 703-308-8245 Last EDR Contact: 05/07/2012

Next Scheduled EDR Contact: 08/20/2012 Data Release Frequency: Varies

Local Lists of Hazardous waste / Contaminated Sites

US CDL: Clandestine Drug Labs

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

Date of Government Version: 10/07/2011 Date Data Arrived at EDR: 12/09/2011 Date Made Active in Reports: 01/10/2012

Number of Days to Update: 32

Source: Drug Enforcement Administration

Telephone: 202-307-1000 Last EDR Contact: 06/04/2012

Next Scheduled EDR Contact: 09/17/2012 Data Release Frequency: Quarterly

US HIST CDL: National Clandestine Laboratory Register

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

Date of Government Version: 09/01/2007 Date Data Arrived at EDR: 11/19/2008 Date Made Active in Reports: 03/30/2009

Number of Days to Update: 131

Source: Drug Enforcement Administration

Telephone: 202-307-1000 Last EDR Contact: 03/23/2009

Next Scheduled EDR Contact: 06/22/2009 Data Release Frequency: No Update Planned

Local Land Records

LIENS 2: CERCLA Lien Information

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

Date of Government Version: 09/09/2011 Date Data Arrived at EDR: 09/16/2011 Date Made Active in Reports: 09/29/2011

Number of Days to Update: 13

Source: Environmental Protection Agency

Telephone: 202-564-6023 Last EDR Contact: 04/30/2012

Next Scheduled EDR Contact: 08/13/2012 Data Release Frequency: Varies

LUCIS: Land Use Control Information System

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

Date of Government Version: 12/09/2005 Date Data Arrived at EDR: 12/11/2006 Date Made Active in Reports: 01/11/2007

Number of Days to Update: 31

Source: Department of the Navy Telephone: 843-820-7326 Last EDR Contact: 05/21/2012

Next Scheduled EDR Contact: 09/03/2012 Data Release Frequency: Varies

Records of Emergency Release Reports

HMIRS: Hazardous Materials Information Reporting System

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

Date of Government Version: 10/04/2011 Date Data Arrived at EDR: 10/04/2011 Date Made Active in Reports: 11/11/2011

Number of Days to Update: 38

Source: U.S. Department of Transportation

Telephone: 202-366-4555 Last EDR Contact: 04/03/2012

Next Scheduled EDR Contact: 07/16/2012 Data Release Frequency: Annually

Other Ascertainable Records

RCRA-NonGen: RCRA - Non Generators

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

Date of Government Version: 03/15/2012 Date Data Arrived at EDR: 04/04/2012 Date Made Active in Reports: 05/15/2012

Number of Days to Update: 41

Source: Environmental Protection Agency Telephone: (415) 495-8895

Last EDR Contact: 04/04/2012

Next Scheduled EDR Contact: 07/16/2012 Data Release Frequency: Varies

DOT OPS: Incident and Accident Data

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

Date of Government Version: 07/29/2011 Date Data Arrived at EDR: 08/09/2011 Date Made Active in Reports: 11/11/2011

Number of Days to Update: 94

Source: Department of Transporation, Office of Pipeline Safety

Telephone: 202-366-4595 Last EDR Contact: 05/08/2012

Next Scheduled EDR Contact: 08/20/2012 Data Release Frequency: Varies

DOD: Department of Defense Sites

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

Source: USGS

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

Number of Days to Update: 62

Telephone: 888-275-8747 Last EDR Contact: 04/16/2012

Next Scheduled EDR Contact: 07/30/2012 Data Release Frequency: Semi-Annually

FUDS: Formerly Used Defense Sites

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

Date of Government Version: 12/31/2009 Date Data Arrived at EDR: 08/12/2010 Date Made Active in Reports: 12/02/2010

Number of Days to Update: 112

Source: U.S. Army Corps of Engineers

Telephone: 202-528-4285 Last EDR Contact: 03/12/2012

Next Scheduled EDR Contact: 06/25/2012 Data Release Frequency: Varies

CONSENT: Superfund (CERCLA) Consent Decrees

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

Date of Government Version: 12/01/2011 Date Data Arrived at EDR: 01/25/2012 Date Made Active in Reports: 03/01/2012

Number of Days to Update: 36

Source: Department of Justice, Consent Decree Library

Telephone: Varies

Last EDR Contact: 04/02/2012

Next Scheduled EDR Contact: 07/16/2012 Data Release Frequency: Varies

ROD: Records Of Decision

Record of Decision. ROD documents mandate a permanent remedy at an NPL (Superfund) site containing technical and health information to aid in the cleanup.

Date of Government Version: 09/28/2011 Date Data Arrived at EDR: 12/14/2011 Date Made Active in Reports: 01/10/2012

Number of Days to Update: 27

Source: EPA

Telephone: 703-416-0223 Last EDR Contact: 03/14/2012

Next Scheduled EDR Contact: 06/25/2012 Data Release Frequency: Annually

UMTRA: Uranium Mill Tailings Sites

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

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

Number of Days to Update: 146

Source: Department of Energy Telephone: 505-845-0011 Last EDR Contact: 05/29/2012

Next Scheduled EDR Contact: 09/10/2012

Data Release Frequency: Varies

MINES: Mines Master Index File

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

Date of Government Version: 08/18/2011 Date Data Arrived at EDR: 09/08/2011 Date Made Active in Reports: 09/29/2011

Number of Days to Update: 21

Source: Department of Labor, Mine Safety and Health Administration

Telephone: 303-231-5959 Last EDR Contact: 06/05/2012

Next Scheduled EDR Contact: 09/17/2012 Data Release Frequency: Semi-Annually

TRIS: Toxic Chemical Release Inventory System

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

Date of Government Version: 12/31/2009 Date Data Arrived at EDR: 09/01/2011 Date Made Active in Reports: 01/10/2012

Number of Days to Update: 131

Source: EPA

Telephone: 202-566-0250 Last EDR Contact: 05/29/2012

Next Scheduled EDR Contact: 09/10/2012 Data Release Frequency: Annually

TSCA: Toxic Substances Control Act

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

Date of Government Version: 12/31/2006 Date Data Arrived at EDR: 09/29/2010 Date Made Active in Reports: 12/02/2010

Number of Days to Update: 64

Source: EPA

Telephone: 202-260-5521 Last EDR Contact: 03/28/2012

Next Scheduled EDR Contact: 07/09/2012 Data Release Frequency: Every 4 Years

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

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

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

Number of Days to Update: 25

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

Telephone: 202-566-1667 Last EDR Contact: 05/23/2012

Next Scheduled EDR Contact: 09/10/2012 Data Release Frequency: Quarterly

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

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

Number of Days to Update: 25

Source: EPA

Telephone: 202-566-1667 Last EDR Contact: 05/23/2012

Next Scheduled EDR Contact: 09/10/2012 Data Release Frequency: Quarterly

HIST FTTS: FIFRA/TSCA Tracking System Administrative Case Listing

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

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

Number of Days to Update: 40

Source: Environmental Protection Agency

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

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

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

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

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

Number of Days to Update: 40

Source: Environmental Protection Agency

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

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

SSTS: Section 7 Tracking Systems

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

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

Number of Days to Update: 77

Source: EPA

Telephone: 202-564-4203 Last EDR Contact: 04/30/2012

Next Scheduled EDR Contact: 08/13/2012 Data Release Frequency: Annually

ICIS: Integrated Compliance Information System

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

Date of Government Version: 07/20/2011 Date Data Arrived at EDR: 11/10/2011 Date Made Active in Reports: 01/10/2012

Number of Days to Update: 61

Source: Environmental Protection Agency

Telephone: 202-564-5088 Last EDR Contact: 03/26/2012

Next Scheduled EDR Contact: 07/09/2012 Data Release Frequency: Quarterly

PADS: PCB Activity Database System

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

Date of Government Version: 11/01/2010 Date Data Arrived at EDR: 11/10/2010 Date Made Active in Reports: 02/16/2011

Number of Days to Update: 98

Source: EPA

Telephone: 202-566-0500 Last EDR Contact: 04/17/2012

Next Scheduled EDR Contact: 07/30/2012 Data Release Frequency: Annually

MLTS: Material Licensing Tracking System

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

Date of Government Version: 06/21/2011 Date Data Arrived at EDR: 07/15/2011 Date Made Active in Reports: 09/13/2011

Number of Days to Update: 60

Source: Nuclear Regulatory Commission

Telephone: 301-415-7169 Last EDR Contact: 03/12/2012

Next Scheduled EDR Contact: 06/25/2012 Data Release Frequency: Quarterly

RADINFO: Radiation Information Database

The Radiation Information Database (RADINFO) contains information about facilities that are regulated by U.S. Environmental Protection Agency (EPA) regulations for radiation and radioactivity.

Date of Government Version: 01/10/2012 Date Data Arrived at EDR: 01/12/2012 Date Made Active in Reports: 03/01/2012

Number of Days to Update: 49

Source: Environmental Protection Agency

Telephone: 202-343-9775 Last EDR Contact: 04/10/2012

Next Scheduled EDR Contact: 07/23/2012 Data Release Frequency: Quarterly

FINDS: Facility Index System/Facility Registry System

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

Date of Government Version: 10/23/2011 Date Data Arrived at EDR: 12/13/2011 Date Made Active in Reports: 03/01/2012

Number of Days to Update: 79

Source: EPA

Telephone: (415) 947-8000 Last EDR Contact: 03/13/2012

Next Scheduled EDR Contact: 06/25/2012 Data Release Frequency: Quarterly

RAATS: RCRA Administrative Action Tracking System

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

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

Number of Days to Update: 35

Source: EPA

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

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

BRS: Biennial Reporting System

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

Date of Government Version: 12/31/2009 Date Data Arrived at EDR: 03/01/2011 Date Made Active in Reports: 05/02/2011

Number of Days to Update: 62

Source: EPA/NTIS Telephone: 800-424-9346 Last EDR Contact: 06/01/2012

Next Scheduled EDR Contact: 09/10/2012 Data Release Frequency: Biennially

NPDES: Permitted Facility Listing

A listing of permitted wastewater facilities.

Date of Government Version: 04/13/2012 Date Data Arrived at EDR: 04/16/2012 Date Made Active in Reports: 05/01/2012

Number of Days to Update: 15

Source: Department of Environmental Protection

Telephone: 775-687-9414 Last EDR Contact: 04/09/2012

Next Scheduled EDR Contact: 07/09/2012 Data Release Frequency: Varies

AIRS: Permitted Airs Facility Listing

A listing of permitted Airs facilities and their associated emissions information.

Date of Government Version: 03/31/2011 Date Data Arrived at EDR: 03/31/2011 Date Made Active in Reports: 05/13/2011

Number of Days to Update: 43

Source: Division of Environmental Protection

Telephone: 775-687-9359 Last EDR Contact: 03/26/2012

Next Scheduled EDR Contact: 07/09/2012 Data Release Frequency: Varies

HMRI: Hazardous Materials Repository Information Data

Emergency Planning and Community Right-to-Know Act (EPCRA) required facilities which store or manufacture hazardous materials to prepare and submit a chemical inventory report by March 1st of each year to the State Emergency Response Commission (SERC), LEPC and the local fire department. The inventory form must include information on all hazardous chemicals present at the facility during the previous calendar year in amounts that meet or exceed thresholds.

Date of Government Version: 08/05/2008 Date Data Arrived at EDR: 08/05/2008 Date Made Active in Reports: 08/13/2008

Number of Days to Update: 8

Source: State Emergency Response Commission

Telephone: 775-687-6973 Last EDR Contact: 05/21/2012

Next Scheduled EDR Contact: 09/03/2012 Data Release Frequency: Semi-Annually

INDIAN RESERV: Indian Reservations

This map layer portrays Indian administered lands of the United States that have any area equal to or greater than 640 acres.

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

Number of Days to Update: 34

Source: USGS

Telephone: 202-208-3710 Last EDR Contact: 04/16/2012

Next Scheduled EDR Contact: 07/30/2012 Data Release Frequency: Semi-Annually

SCRD DRYCLEANERS: State Coalition for Remediation of Drycleaners Listing

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

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

Number of Days to Update: 54

Source: Environmental Protection Agency

Telephone: 615-532-8599 Last EDR Contact: 04/23/2012

Next Scheduled EDR Contact: 08/06/2012 Data Release Frequency: Varies

COAL ASH DOE: Sleam-Electric Plan Operation Data

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

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

Number of Days to Update: 76

Source: Department of Energy Telephone: 202-586-8719 Last EDR Contact: 04/16/2012

Next Scheduled EDR Contact: 07/30/2012 Data Release Frequency: Varies

EPA WATCH LIST: EPA WATCH LIST

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

Date of Government Version: 12/31/2011 Date Data Arrived at EDR: 02/17/2012 Date Made Active in Reports: 03/01/2012

Number of Days to Update: 13

Source: Environmental Protection Agency

Telephone: 617-520-3000 Last EDR Contact: 05/15/2012

Next Scheduled EDR Contact: 08/27/2012 Data Release Frequency: Quarterly

FEDLAND: Federal and Indian Lands

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

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

Number of Days to Update: 339

Source: U.S. Geological Survey Telephone: 888-275-8747 Last EDR Contact: 04/16/2012

Next Scheduled EDR Contact: 07/30/2012

Data Release Frequency: N/A

2020 CORRECTIVE ACTION: 2020 Corrective Action Program List

This RCRA cleanup baseline includes facilities expected to need corrective action.

Date of Government Version: 11/11/2011 Date Data Arrived at EDR: 05/18/2012 Date Made Active in Reports: 05/25/2012

Number of Days to Update: 7

Source: Environmental Protection Agency

Telephone: 703-308-4044 Last EDR Contact: 05/18/2012

Next Scheduled EDR Contact: 08/27/2012 Data Release Frequency: Varies

COAL ASH EPA: Coal Combustion Residues Surface Impoundments List

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

Date of Government Version: 08/17/2010 Date Data Arrived at EDR: 01/03/2011 Date Made Active in Reports: 03/21/2011

Number of Days to Update: 77

Source: Environmental Protection Agency

Telephone: N/A

Last EDR Contact: 03/16/2012

Next Scheduled EDR Contact: 06/25/2012

Data Release Frequency: Varies

COAL ASH: Coal Ash Disposal Sites A listing of coal ash plants.

Date of Government Version: 03/16/2011 Date Data Arrived at EDR: 03/18/2011 Date Made Active in Reports: 05/06/2011

Number of Days to Update: 49

Source: Division of Environmental Protection

Telephone: 775-687-9477 Last EDR Contact: 06/04/2012

Next Scheduled EDR Contact: 09/17/2012 Data Release Frequency: Varies

FINANCIAL ASSURANCE 2: Financial Assurance Information

Solid waste facility financial assurance information.

Date of Government Version: 01/25/2012 Date Data Arrived at EDR: 01/31/2012 Date Made Active in Reports: 02/07/2012

Number of Days to Update: 7

Source: Division of Environmental Protection

Telephone: 775-687-9477 Last EDR Contact: 04/23/2012

Next Scheduled EDR Contact: 08/06/2012 Data Release Frequency: Varies

FINANCIAL ASSURANCE: Financial Assurance Information Listing

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

Date of Government Version: 12/28/2010 Date Data Arrived at EDR: 12/29/2010 Date Made Active in Reports: 02/02/2011

Number of Days to Update: 35

Source: Department of Environmental Protection

Telephone: 775-687-9465 Last EDR Contact: 03/26/2012

Next Scheduled EDR Contact: 07/09/2012 Data Release Frequency: Varies

PCB TRANSFORMER: PCB Transformer Registration Database

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

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

Number of Days to Update: 83

Source: Environmental Protection Agency

Telephone: 202-566-0517 Last EDR Contact: 05/04/2012

Next Scheduled EDR Contact: 08/13/2012 Data Release Frequency: Varies

EDR PROPRIETARY RECORDS

EDR Proprietary Records

Manufactured Gas Plants: EDR Proprietary Manufactured Gas Plants

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

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

Number of Days to Update: N/A

Telephone: N/A Last EDR Contact: N/A

Source: EDR, Inc.

Next Scheduled EDR Contact: N/A

Data Release Frequency: No Update Planned

COUNTY RECORDS

WASHOE COUNTY:

Underground Storage Tank in Washoe County

A listing of underground storage tank sites located in Washoe County.

Date of Government Version: 04/06/2012 Date Data Arrived at EDR: 04/16/2012 Date Made Active in Reports: 05/01/2012

Number of Days to Update: 15

Source: Washoe County Department of Environmental Health

Telephone: 775-328-2493 Last EDR Contact: 04/11/2012

Next Scheduled EDR Contact: 07/16/2012 Data Release Frequency: Quarterly

OTHER DATABASE(S)

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

CT MANIFEST: Hazardous Waste Manifest Data

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

Date of Government Version: 05/21/2012 Date Data Arrived at EDR: 05/22/2012 Date Made Active in Reports: 05/31/2012

Number of Days to Update: 9

Source: Department of Energy & Environmental Protection

Telephone: 860-424-3375 Last EDR Contact: 05/22/2012

Next Scheduled EDR Contact: 09/03/2012 Data Release Frequency: Annually

NY MANIFEST: Facility and Manifest Data

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

Date of Government Version: 01/10/2012
Date Data Arrived at EDR: 02/09/2012
Date Made Active in Reports: 03/09/2012

Number of Days to Update: 29

Source: Department of Environmental Conservation

Telephone: 518-402-8651 Last EDR Contact: 05/09/2012

Next Scheduled EDR Contact: 08/20/2012 Data Release Frequency: Annually

Oil/Gas Pipelines: This data was obtained by EDR from the USGS in 1994. It is referred to by USGS as GeoData Digital Line Graphs from 1:100,000-Scale Maps. It was extracted from the transportation category including some oil, but primarily gas pipelines.

Electric Power Transmission Line Data Source: Rextag Strategies Corp. Telephone: (281) 769-2247

U.S. Electric Transmission and Power Plants Systems Digital GIS Data

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

AHA Hospitals:

Source: American Hospital Association, Inc.

Telephone: 312-280-5991

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

Medical Centers: Provider of Services Listing

Source: Centers for Medicare & Medicaid Services

Telephone: 410-786-3000

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

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

Nursing Homes

Source: National Institutes of Health

Telephone: 301-594-6248

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

Public Schools

Source: National Center for Education Statistics

Telephone: 202-502-7300

The National Center for Education Statistics' primary database on elementary

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

comparable across all states.

Private Schools

Source: National Center for Education Statistics

Telephone: 202-502-7300

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

Daycare Centers: Child Care Facility List Source: Department of Human Resources

Telephone: 775-684-1100

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

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

Scanned Digital USGS 7.5' Topographic Map (DRG)

Source: United States Geologic Survey

A digital raster graphic (DRG) is a scanned image of a U.S. Geological Survey topographic map. The map images are made by scanning published paper maps on high-resolution scanners. The raster image is georeferenced and fit to the Universal Transverse Mercator (UTM) projection.

STREET AND ADDRESS INFORMATION

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GEOCHECK®-PHYSICAL SETTING SOURCE ADDENDUM

TARGET PROPERTY ADDRESS

OLD LACKAWANNA MILL SITE LACKAWANNA ROAD ELY, NV 89301

TARGET PROPERTY COORDINATES

Latitude (North): 39.2853 - 39° 17' 7.08" Longitude (West): 114.8687 - 114° 52' 7.32"

Universal Tranverse Mercator: Zone 11 UTM X (Meters): 683822.8 UTM Y (Meters): 4350394.0

Elevation: 6372 ft. above sea level

USGS TOPOGRAPHIC MAP

Target Property Map: 39114-C7 EAST ELY, NV

Most Recent Revision: 1979

West Map: 39114-C8 RUTH, NV

Most Recent Revision: 1979

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

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

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

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

GROUNDWATER FLOW DIRECTION INFORMATION

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

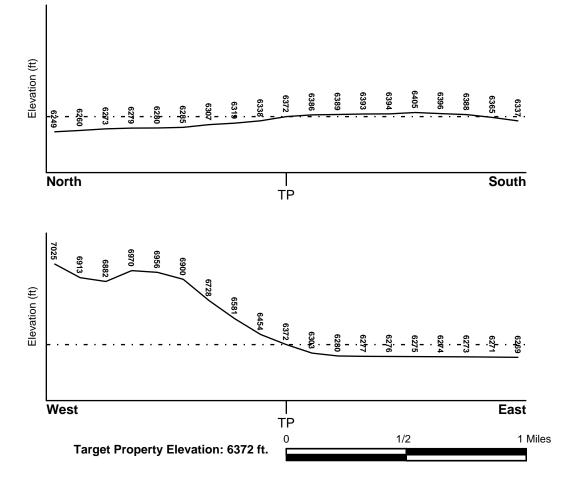
TOPOGRAPHIC INFORMATION

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

TARGET PROPERTY TOPOGRAPHY

General Topographic Gradient: General ENE

SURROUNDING TOPOGRAPHY: ELEVATION PROFILES



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

HYDROLOGIC INFORMATION

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

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

FEMA FLOOD ZONE

FEMA Flood
Target Property County Electronic Data

WHITE PINE, NV Not Available

Flood Plain Panel at Target Property: Not Reported

Additional Panels in search area: Not Reported

NATIONAL WETLAND INVENTORY

NWI Quad at Target Property Data Coverage

EAST ELY YES - refer to the Overview Map and Detail Map

HYDROGEOLOGIC INFORMATION

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

Site-Specific Hydrogeological Data*:

Search Radius: 1.25 miles Status: Not found

AQUIFLOW®

Search Radius: 1.000 Mile.

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

 MAP ID
 FROM TP
 GROUNDWATER FLOW

 Not Reported
 GROUNDWATER FLOW

GROUNDWATER FLOW VELOCITY INFORMATION

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

GEOLOGIC INFORMATION IN GENERAL AREA OF TARGET PROPERTY

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

ROCK STRATIGRAPHIC UNIT

GEOLOGIC AGE IDENTIFICATION

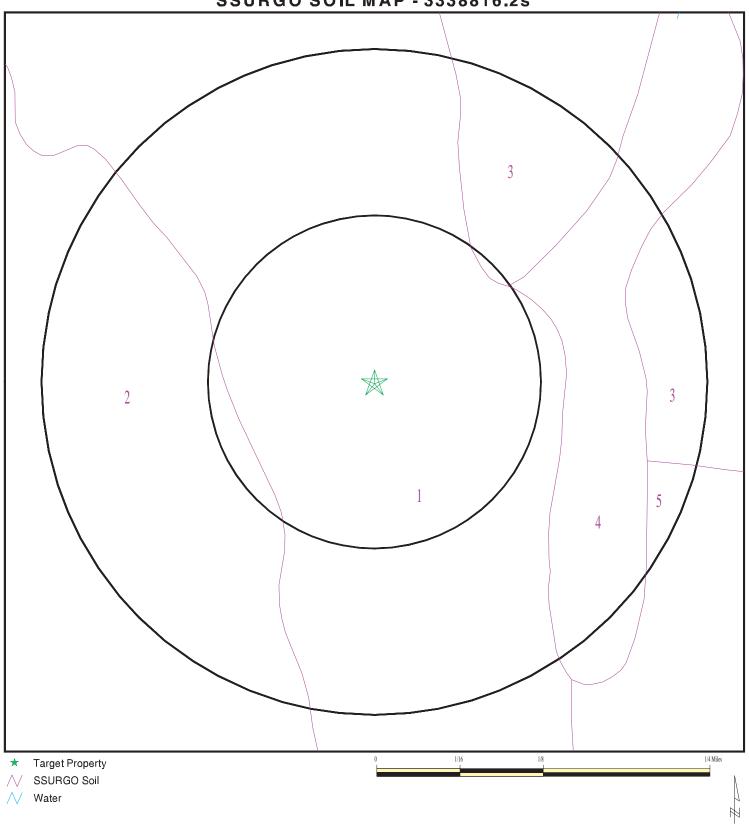
Era: Cenozoic Category: Stratifed Sequence

System: Quaternary Series: Quaternary

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

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

SSURGO SOIL MAP - 3338816.2s



SITE NAME: Old Lackawanna Mill Site ADDRESS: Lackawanna Road

Ely NV 89301 LAT/LONG: 39.2853 / 114.8687 CLIENT: McGinley Associates
CONTACT: Brett Bottenberg
INQUIRY #: 3338816.2s

DATE: June 07, 2012 11:58 am

DOMINANT SOIL COMPOSITION IN GENERAL AREA OF TARGET PROPERTY

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

Soil Map ID: 1

Soil Component Name: Palinor

Soil Surface Texture: gravelly loam

Hydrologic Group: Class D - Very slow infiltration rates. Soils are clayey, have a high

water table, or are shallow to an impervious layer.

Soil Drainage Class: Well drained

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: High

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

| | | | Soil Layer | r Information | | | |
|-------|-----------|-----------|---|--|---|-----------------------------|--------------------|
| | Bou | ındary | | Classif | ication | Saturated hydraulic | |
| Layer | Upper | Lower | Soil Texture Class | AASHTO Group | Unified Soil | conductivity micro m/sec | Soil Reaction (pH) |
| 1 | 0 inches | 9 inches | gravelly loam | Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils. | COARSE-GRAINED SOILS, Gravels, Gravels with fines, Silty Gravel | Max: 141 Min: 42 | Max: 9 Min: 7.9 |
| 2 | 9 inches | 18 inches | extremely gravelly fine sandy loam | Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils. | COARSE-GRAINED SOILS, Gravels, Gravels with fines, Silty Gravel | Max: 141 Min: 42 | Max: 9 Min: 7.9 |
| 3 | 18 inches | 29 inches | indurated | Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils. | COARSE-GRAINED SOILS, Gravels, Gravels with fines, Silty Gravel | Max: 141 Min: 42 | Max: 9 Min: 7.9 |
| 4 | 29 inches | 59 inches | sr to gravelly sandy loam to extremely gravelly coarse sand | Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils. | COARSE-GRAINED SOILS, Gravels, Gravels with fines, Silty Gravel | Max: 141 Min: 42 | Max: 9 Min: 7.9 |

Soil Map ID: 2

Soil Component Name: Pookaloo

Soil Surface Texture: very gravelly loam

Hydrologic Group: Class D - Very slow infiltration rates. Soils are clayey, have a high

water table, or are shallow to an impervious layer.

Soil Drainage Class: Well drained

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: High

Depth to Bedrock Min: > 48 inches

Depth to Watertable Min: > 0 inches

| | | | Soil Layer | r Information | | | |
|-------|----------------------------|-----------|----------------------------|---|--------------|-----------------------------|--------------------|
| | Boundary Layer Upper Lower | | | Classi | fication | Saturated hydraulic | |
| Layer | | | Soil Texture Class | AASHTO Group | Unified Soil | conductivity micro m/sec | Soil Reaction (pH) |
| 1 | 0 inches | 3 inches | very gravelly loam | Granular materials (35 pct. or less passing No. 200), Silty, or Clayey Gravel and Sand. | Not reported | Max: 0.01 Min: 0 | Max: Min: |
| 2 | 3 inches | 18 inches | very gravelly silt loam | Granular materials (35 pct. or less passing No. 200), Silty, or Clayey Gravel and Sand. | Not reported | Max: 0.01 Min: 0 | Max: Min: |
| 3 | 18 inches | 22 inches | unweathered bedrock | Granular materials (35 pct. or less passing No. 200), Silty, or Clayey Gravel and Sand. | Not reported | Max: 0.01 Min: 0 | Max: Min: |

Soil Map ID: 3

Soil Component Name: Pyrat

Soil Surface Texture: gravelly sandy loam

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

moderately well and well drained soils with moderately coarse

textures.

Soil Drainage Class: Well drained

GEOCHECK[®] - PHYSICAL SETTING SOURCE SUMMARY

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: High

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

| | Bou | ındary | | Classi | fication | Saturated hydraulic | |
|-------|-----------|-----------|-----------------------------|---|---|-----------------------------|--------------------|
| Layer | Upper | Lower | Soil Texture Class | AASHTO Group | Unified Soil | conductivity micro m/sec | Soil Reaction (pH) |
| 1 | 0 inches | 5 inches | gravelly sandy loam | Granular materials (35 pct. or less passing No. 200), Silty, or Clayey Gravel and Sand. | COARSE-GRAINED SOILS, Gravels, Clean gravels, Poorly Graded Gravel. COARSE-GRAINED SOILS, Gravels, Gravels with fines, Silty Gravel. | Max: 141 Min: 42 | Max: 9 Min: 7.9 |
| 2 | 5 inches | 16 inches | very gravelly sandy loam | Granular materials (35 pct. or less passing No. 200), Silty, or Clayey Gravel and Sand. | COARSE-GRAINED SOILS, Gravels, Clean gravels, Poorly Graded Gravel. COARSE-GRAINED SOILS, Gravels, Gravels with fines, Silty Gravel. | Max: 141 Min: 42 | Max: 9 Min: 7.9 |
| 3 | 16 inches | 27 inches | very gravelly loam | Granular materials (35 pct. or less passing No. 200), Silty, or Clayey Gravel and Sand. | COARSE-GRAINED SOILS, Gravels, Clean gravels, Poorly Graded Gravel. COARSE-GRAINED SOILS, Gravels, Gravels with fines, Silty Gravel. | Max: 141 Min: 42 | Max: 9 Min: 7.9 |
| 4 | 27 inches | 38 inches | very gravelly sandy loam | Granular materials (35 pct. or less passing No. 200), Silty, or Clayey Gravel and Sand. | COARSE-GRAINED SOILS, Gravels, Clean gravels, Poorly Graded Gravel. COARSE-GRAINED SOILS, Gravels, Gravels with fines, Silty Gravel. | Max: 141 Min: 42 | Max: 9 Min: 7.9 |

| | Soil Layer Information | | | | | | | | | | | |
|-------|------------------------|-----------|---|---|--|-----------------------------|--------------------|--|--|--|--|--|
| | Boundary | | | Classi | fication | Saturated hydraulic | | | | | | |
| Layer | Upper | Lower | Soil Texture Class | AASHTO Group | Unified Soil | conductivity micro m/sec | | | | | | |
| 5 | 38 inches | 59 inches | sr to very gravelly coarse sandy loam to extremely gravelly loamy sand | Granular materials (35 pct. or less passing No. 200), Silty, or Clayey Gravel and Sand. | COARSE-GRAINED SOILS, Gravels, Clean gravels, Poorly Graded Gravel. COARSE-GRAINED SOILS, Gravels, Gravels with fines, Silty Gravel. | Max: 141 Min: 42 | Max: 9 Min: 7.9 | | | | | |

Soil Map ID: 4

Soil Component Name: Tulase

Soil Surface Texture: silt loam

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

moderately well and well drained soils with moderately coarse

textures.

Soil Drainage Class: Well drained

Hydric Status: Partially hydric

Corrosion Potential - Uncoated Steel: High

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

| Soil Layer Information | | | | | | | | | | | | |
|------------------------|----------|----------|--------------------|--|---|--|--------------------|--|--|--|--|--|
| | Воц | ındary | | Classi | fication | Saturated hydraulic conductivity micro m/sec | | | | | | |
| Layer | Upper | Lower | Soil Texture Class | AASHTO Group | Unified Soil | | | | | | | |
| 1 | 0 inches | 1 inches | silt loam | Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils. | FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay. FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), silt. | Max: 14 Min: 4 | Max: 9 Min: 8.5 | | | | | |

| | Soil Layer Information | | | | | | | | | | | | |
|-------|------------------------|-----------|--------------------|--|---|-----------------------------|--------------------|--|--|--|--|--|--|
| | Boundary | | | Classi | fication | Saturated hydraulic | | | | | | | |
| Layer | Upper | Lower | Soil Texture Class | AASHTO Group | Unified Soil | conductivity micro m/sec | Soil Reaction (pH) | | | | | | |
| 2 | 1 inches | 59 inches | silt loam | Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils. | FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay. FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), silt. | Max: 14 Min: 4 | Max: 9 Min: 8.5 | | | | | | |

Soil Map ID: 5

Soil Component Name: Blimo

Soil Surface Texture: gravelly loam

Hydrologic Group: Class C - Slow infiltration rates. Soils with layers impeding downward

movement of water, or soils with moderately fine or fine textures.

Soil Drainage Class: Well drained

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: High

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

| | Soil Layer Information | | | | | | | | | | | |
|-------|------------------------|----------|--------------------|---|---|------------------------|--------------------|--|--|--|--|--|
| | Boundary | | | Classi | fication | Saturated hydraulic | | | | | | |
| Layer | Upper | Lower | Soil Texture Class | AASHTO Group | Unified Soil | | Soil Reaction (pH) | | | | | |
| 1 | 0 inches | 7 inches | gravelly loam | Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils. | COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand. | Max: 1.4 Min: 0.42 | Max: 9 Min: 7.9 | | | | | |

| Soil Layer Information | | | | | | | |
|------------------------|-----------|-----------|------------------------|--|---|-----------------------------|--------------------|
| Layer | Boundary | | | Classification | | Saturated hydraulic | |
| | Upper | Lower | Soil Texture Class | AASHTO Group | Unified Soil | conductivity micro m/sec | |
| 2 | 7 inches | 20 inches | gravelly sandy loam | Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils. | COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand. | Max: 1.4 Min: 0.42 | Max: 9 Min: 7.9 |
| 3 | 20 inches | 59 inches | gravelly sandy loam | Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils. | COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand. | Max: 1.4 Min: 0.42 | Max: 9 Min: 7.9 |

LOCAL / REGIONAL WATER AGENCY RECORDS

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

WELL SEARCH DISTANCE INFORMATION

DATABASE SEARCH DISTANCE (miles)

Federal USGS 1.000

Federal FRDS PWS Nearest PWS within 1 mile

State Database 1.000

FEDERAL USGS WELL INFORMATION

 MAP ID
 WELL ID
 LOCATION FROM TP

 2
 USGS3089509
 1/4 - 1/2 Mile ESE

 10
 USGS3089512
 1/2 - 1 Mile East

FEDERAL FRDS PUBLIC WATER SUPPLY SYSTEM INFORMATION

MAP ID WELL ID FROM TP

No PWS System Found

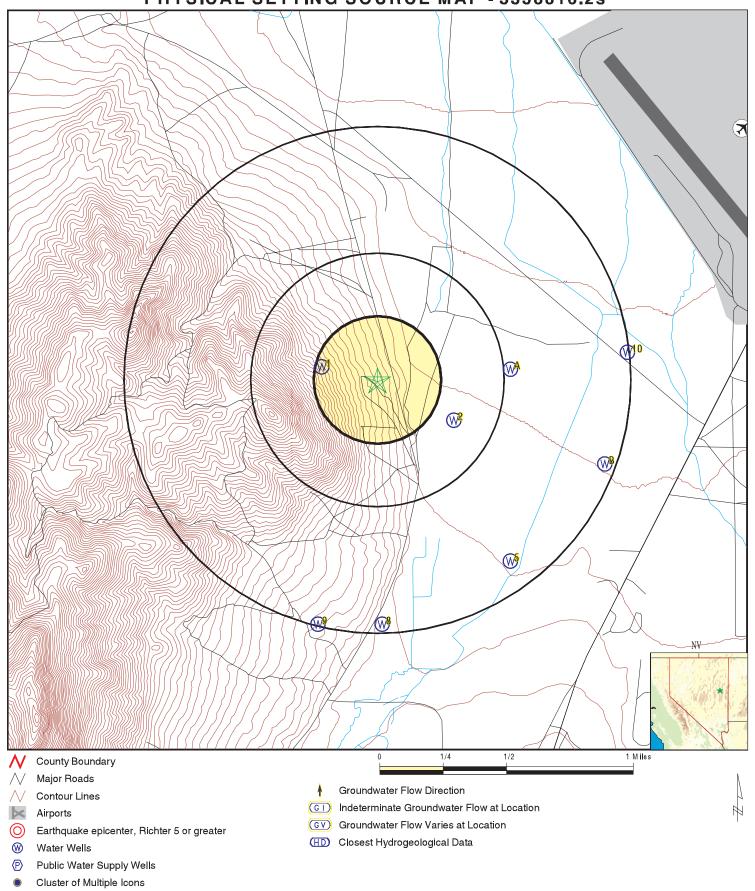
Note: PWS System location is not always the same as well location.

GEOCHECK[®] - PHYSICAL SETTING SOURCE SUMMARY

STATE DATABASE WELL INFORMATION

| WELL ID | LOCATION FROM TP |
|-----------------|--|
| NV4000000062108 | 1/8 - 1/4 Mile WNW |
| NV400000062102 | 1/2 - 1 Mile East |
| NV400000062109 | 1/2 - 1 Mile East |
| NV400000061525 | 1/2 - 1 Mile SE |
| NV400000061837 | 1/2 - 1 Mile ESE |
| NV400000061836 | 1/2 - 1 Mile ESE |
| NV400000061390 | 1/2 - 1 Mile South |
| NV400000061389 | 1/2 - 1 Mile SSW |
| | NV4000000062108 NV400000062102 NV400000062109 NV400000061525 NV400000061837 NV400000061836 NV4000000061390 |

PHYSICAL SETTING SOURCE MAP - 3338816.2s



SITE NAME: Old Lackawanna Mill Site ADDRESS: Lackawanna Road

Ely NV 89301 LAT/LONG: 39.2853 / 114.8687 CLIENT: McGinley Associa CONTACT: Brett Bottenberg McGinley Associates INQUIRY#: 3338816.2s

DATE:

June 07, 2012 11:58 am

Map ID Direction Distance

Elevation Database EDR ID Number 1 WNW **NV WELLS** NV400000062108 1/8 - 1/4 Mile Higher Well log: 99777 App: Not Reported Notice of: 55264 Waiver no: Not Reported 03/07/2006 Date log 1: Date log r: D Site type: Ν Work type: Ν Work type: Not Reported Proposed u: Н Drilling m: Α Sc: 32033 179 На: Twn: N16 16N Legal twn: E63 63E Rng: Legal rng: Sec: 03 Sec quarte: BA **NE NW** Not Reported Legal quar: Quarters s: Ref: MD Latitude: 39 Longitude: 114 Lat long s: Not Reported Lat long a: Μ Owner curr: PAULEY, TIM & VICTORIA Owner addr: **CROSS TIMBERS** Not Reported Owner no: 10-420-05 Parcel no: Subdivisio: Not Reported Lot no: Block no: Not Reported 02/09/2006 Well finis: Date cmplt: Gravel pac: Υ Depth seal: 51 Depth dril: 345 Depth bedr: 0 Aquifer de: Not Reported Depth case: 345 Csng diame: 6 Csng reduc: 0 Top perf: 325 345 Perf inter: Bottom per: 1 Static wl: 295 Temperatur: 60 Yield: 40 Drawdown: 0 Hours pump: 4.5 G Test metho: Α Qual const: Qual lith: G Remarks ad: Not Reported 31904 Contractor: FERTIG DRILLING CO Contract 1: P O BOX 525 ELKO NV 89801 Contract 2: Contract 3: Driller li: 1584 Source age: NV003 06/28/2006 User id: **APALMER** Date entry: Update use: **APALMER** Date updat: 07/11/2006 Edit statu: F Well start: 02/02/2006 Gravel p 1: 51 Gravel p 2: 345 683540.828069 Utm x: Utm y: 4350477.6344 Site id: NV400000062108

2 ESE 1/4 - 1/2 Mile Lower

FED USGS USGS3089509

Agency cd: USGS Site no: 391659114514401

Site name: 179 N16 E63 03A 1 Lackawanna Springs

 Latitude:
 391659
 EDR Site id:
 USGS3089509

 Longitude:
 1145144
 Dec lat:
 39.28299466

Dec Ion: -114.8630737 Coor meth: М Coor accr: F Latlong datum: NAD27 Dec latlong datum: NAD83 District: 32 State: 32 County: 033

Country: US Land net: NENENES03 T16N R63E M

Location map: ELY, NV-UT Map scale: 250000

Altitude: 6300.

Altitude method: Interpolated from topographic map

Altitude accuracy: 50

Altitude datum: National Geodetic Vertical Datum of 1929

Hydrologic: SpringSteptoe Valleys. Nevada. Area = 5240 sq.mi.

Topographic: Not Reported

Site type: Spring Date construction: Not Reported

Date inventoried: Not Reported Mean greenwich time offset: PST

Local standard time flag: Y
Type of ground water site: Spring
Aquifer Type: Not Reported
Aquifer: Not Reported

Well depth: Not Reported Hole depth: Not Reported

Source of depth data: Not Reported Project number: SPUD1980

Real time data flag: Not Reported Daily flow data begin date: Not Reported Daily flow data end date: Not Reported Daily flow data count: Not Reported Peak flow data begin date: Not Reported Peak flow data end date: Not Reported Peak flow data count: Not Reported Water quality data begin date: Not Reported Water quality data end date:Not Reported Water quality data count: Not Reported Ground water data begin date: Not Reported Ground water data end date: Not Reported

Ground water data count: Not Reported

Ground-water levels, Number of Measurements: 0

A3 East NV WELLS NV400000062102

1/2 - 1 Mile Lower

Well log: 43536 App: Not Reported Notice of: 19848 Waiver no: Not Reported

 Date log r:
 01/25/1994
 Date log 1:
 D

 Site type:
 N
 Work type:
 N

Work type : Not Reported

Proposed u: Drilling m: R 32033 179 Sc: Ha: 16N Twn: N16 Legal twn: Rng: E63 Legal rng: 63E Sec: 02 Sec quarte: BB

Legal quar: NW NW Quarters s: Not Reported

Ref: MD Latitude: 39
Longitude: 114 Lat long s: NV003

Lat long a: T

Owner curr: CITY OF ELY

Owner addr: 2 MILES NORTH OF ELY NV

Owner no: Not Reported

Parcel no: Not Reported Subdivisio: Not Reported Lot no: Not Reported Block no: Not Reported

 Well finis:
 01/07/1994
 Date cmplt:
 D

 Gravel pac:
 Not Reported
 Depth seal:
 64

 Depth dril:
 115
 Depth bedr:
 0

Aquifer de: Not Reported Depth case: 115

Csng diame: 4

 Csng reduc:
 0
 Top perf:
 60

 Bottom per:
 110
 Perf inter:
 1

 Static wl:
 66

 Temperatur:
 0

 Yield:
 3

 Drawdown:
 49

 Hours pump:
 2

 Test metho:
 A

Edit statu:

Lower

Lot no:

Test metho: A Qual const: F Qual lith:

Remarks: PROP USE=MONITOR
Remarks ad: WAIVER NO=MO684

Contractor: 14790

Contract 1: CHRISTIANSEN DRILLING INC

Contract 2: 557 ELY AVE ELY NV

Contract 3: 0
Driller Ii: 1793 Source age:
User id: CGALEJAN Date entry:
Update use: Not Reported Date updat:

Gravel p 1: 0 Gravel p 2: 0

 Utm x:
 684739.560383

 Utm y:
 4350475.08336

 Site id:
 NV400000062102

Block no:

Well start:

NV003

03/19/1999 05/14/2008

09/21/1998

Well log:10935App:Not ReportedNotice of:0Waiver no:Not Reported

Date log r: 03/11/1970 Date log 1: D

Site type: N Work type: N Work type: N Not Reported

С Proposed u: Н Drilling m: Sc: 32033 179 Ha: Twn: N16 Legal twn: 16N Rng: E63 Legal rng: 63E ВВ Sec quarte: Sec: 02

Legal quar: NW NW Quarters s: Not Reported

Ref:MDLatitude:39Longitude:114Lat long s:NV003

Lat long a: M

Owner curr: YOUNG, HARVEY
Owner addr: ELY NV

Not Reported

Owner no: Not Reported
Parcel no: Not Reported Subdivisio: Not Reported

 Well finis:
 03/07/1970
 Date cmplt:
 D

 Gravel pac:
 N
 Depth seal:
 41

 Depth dril:
 145
 Depth bedr:
 0

Not Reported

145

Aquifer de: Not Reported Depth case:

Csng diame: 8

 Csng reduc:
 0
 Top perf:
 84

 Bottom per:
 145
 Perf inter:
 1

 Static wl:
 60

 Temperatur:
 0

 Yield:
 0

 Drawdown:
 0

 Hours pump:
 0

Test metho: Not Reported Qual const: G

Qual lith: G

Remarks ad: Not Reported Contractor: 4817

Contract 1: STEVE KAWCHACK

Contract 2: P O BOX 1073 OVERTON NV 89040

Contract 3: 0

Lower

Driller li: 545 Source age: NV003 User id: **SGARDELLA** Date entry: 06/18/2003 **SGARDELLA** Update use: Date updat: 06/18/2003 Edit statu: F Well start: 03/02/1970

Gravel p 1: 0 Gravel p 2: 0

 Utm x:
 684738.830244

 Utm y:
 4350505.9139

 Site id:
 NV400000062109

5 SE NV WELLS NV400000061525 1/2 - 1 Mile

 Well log:
 10933
 App:
 25722

 Notice of :
 0
 Waiver no:
 Not Reported

 Date log r:
 03/11/1970
 Date log 1:
 D

 Site type:
 N
 Work type:
 N

Work type: N Work type: N
Work type: Not Reported

С Proposed u: Drilling m: 32033 Sc: Ha: 179 Twn: N16 Legal twn: 16N Rng: E63 Legal rng: 63E Sec: 02 Sec quarte: CC

Legal quar: SW SW Quarters s: Not Reported

Ref:MDLatitude:39Longitude:114Lat long s:NV003

Lat long a: M

Owner curr: YOUNG, HARVEY

Owner addr: ELY

Owner no: Not Reported

Parcel no: Not Reported Subdivisio: Not Reported Lot no: Not Reported Block no: Not Reported

02/14/1970 D Well finis: Date cmplt: 37 Gravel pac: Ν Depth seal: Depth dril: 120 Depth bedr: 0 Aquifer de: Not Reported Depth case: 120

Csng diame: 8

 Csng reduc:
 0
 Top perf:
 0

 Bottom per:
 0
 Perf inter:
 0

Static wl: 20
Temperatur: 0
Yield: 0
Drawdown: 0

Hours pump: 0

Test metho: Not Reported Qual const: G

Qual lith: G

Remarks ad: Not Reported Contractor: 4817

Contract 1: STEVE KAWCHACK
Contract 2: P O BOX 833 ELY NV 89301

Contract 3: 0

Driller li: 545 Source age: NV003 06/18/2003 User id: **SGARDELLA** Date entry: **HWOOD** Update use: Date updat: 07/16/2003 Edit statu: Well start: 02/10/1970 Gravel p 1: Gravel p 2:

 Utm x:
 684768.032408

 Utm y:
 4349272.69326

 Site id:
 NV400000061525

B6 ESE NV WELLS NV400000061837

1/2 - 1 Mile Lower

Well log: 7395 App: Not Reported Notice of: 0 Waiver no: Not Reported

Work type : Not Reported

С Proposed u: Drilling m: 32033 179 Sc: Twn: N16 Legal twn: 16N 63E Rng: E63 Legal rng: Sec: 02 Sec quarte: Not Reported

Legal quar: Not Reported Quarters s: Not Reported

Pof: MD Latitude: 30

Ref: MD Latitude: 39
Longitude: 114 Lat long s: NV003
Lat long a: M

Owner curr: DUVAL, JAMES E
Owner addr: 1 MI N OF ELY
Owner no: Not Reported

Parcel no: Not Reported Subdivisio: Not Reported Lot no: Not Reported Block no: Not Reported

Well finis: 09/08/1963 Date cmplt: D 0 Gravel pac: Not Reported Depth seal: Depth dril: 230 Depth bedr: 0 Aquifer de: Not Reported Depth case: 180

Csng diame: 5.62

 Csng reduc:
 0
 Top perf:
 140

 Bottom per:
 210
 Perf inter:
 1

Static wl: 140
Temperatur: 0
Yield: 0
Drawdown: 0
Hours pump: 0

Test metho: Not Reported Qual const: G

Qual lith:

Remarks ad: Not Reported
Contractor: Not Reported
Contract 1: J D HILL
Contract 2: ELY

Contract 3: 0
Driller li: 14

 Driller Ii:
 14
 Source age:
 NV003

 User id:
 SGARDELLA
 Date entry:
 06/18/2003

 Update use:
 HWOOD
 Date updat:
 07/16/2003

 Edit statu:
 F
 Well start:
 08/15/1963

Gravel p 1: 0 Gravel p 2: 0

Utm x: 685352.481498 Utm y: 4349903.51159 Site id: NV400000061837

ESE **NV WELLS** NV400000061836

Lat long s:

1/2 - 1 Mile Lower

Longitude:

3076 Not Reported Well log: App: Notice of: 0 Waiver no: Not Reported

Date log r: 08/04/1955 Date log 1: D Ν Site type: Ν Work type: Work type: Not Reported

С Proposed u: Drilling m: Н Sc: 32033 Ha: 179 N16 Legal twn: 16N Twn: Legal rng: Rng: E63 63E

Sec: 02 Sec quarte: Not Reported Not Reported Quarters s: Not Reported Legal quar: Ref: MDLatitude: NV003

Lat long a: M

Owner curr: STATE OF NEVADA FISH AND GAME COMMISSION

Owner addr: .25 MI S OF ELY AIRPORT

114

Not Reported Owner no:

Not Reported Subdivisio: Not Reported Parcel no: Lot no: Not Reported Block no: Not Reported

Well finis: 06/10/1955 Date cmplt: D Gravel pac: Not Reported Depth seal: 0 Depth dril: 96 Depth bedr: 0 Not Reported 96 Aquifer de: Depth case:

Csng diame: 6 Csng reduc: 0

Top perf: 0 Bottom per: 0 Perf inter: 0

Static wl: 50 Temperatur: 0 Yield: 0 Drawdown: 0 Hours pump: 0

G Test metho: Not Reported Qual const:

Qual lith:

PROP USE=CULINARY WELL TYPE = CHURN DRILL Remarks:

Remarks ad: Not Reported Contractor: Not Reported J D HILL Contract 1: Contract 2: **ELY** Contract 3: 0

Driller li: 14 Source age: NV003 **SGARDELLA** 06/18/2003 User id: Date entry: **HWOOD** Update use: Date updat: 07/16/2003 Edit statu: F Well start: 06/02/1955

Gravel p 1: 0 Gravel p 2:

 Utm x:
 685352.481498

 Utm y:
 4349903.51159

 Site id:
 NV400000061836

8 South NV WELLS NV400000061390

Top perf:

Perf inter:

40

1

1/2 - 1 Mile Lower

> 51433 Not Reported Well log: App: Notice of: 19967 Waiver no: MO-1011 Date log r: 02/05/1996 Date log 1: D Ν Site type: Ν Work type: Work type: Not Reported Proposed u: Ζ Χ

> Drilling m: Sc: 32033 Ha: 179 N16 Legal twn: 16N Twn: Legal rng: 63E Rng: E63 Sec: 10 Sec quarte: AΒ NW NE Quarters s: Not Reported Legal quar:

Ref: MD Latitude: 39 Longitude: 114 Lat long s: NV003

Lat long a: T

Owner curr: CITY OF ELY

Owner addr: CITY OF ELY LANDFILL

Owner no: Not Reported

Parcel no: Not Reported Subdivisio: Not Reported Lot no: Not Reported Block no: Not Reported

Well finis: 01/14/1996 Date cmplt: D Gravel pac: Υ Depth seal: 33 Depth dril: 60 Depth bedr: 0 60 Not Reported Aquifer de: Depth case: Csng diame: 4.5

 Csng reduc:
 0

 Bottom per:
 60

 Static wl:
 38

 Temperatur:
 0

 Yield:
 220

 Drawdown:
 0

Hours pump: 2
Test metho: B Qual const: G

Qual lith: G Qual const:

Remarks: DRILLING METHOD=ODEX

Remarks ad: Not Reported Contractor: 00957301

Contract 1: PC EXPLORATION INC

Contract 2: 1125 W 650 NO CENTERVILLE UT

Contract 3: 0

Driller li: 1643 Source age: NV003 **KLOHAIR** 07/08/1996 User id: Date entry: 12/11/1996 Update use: klohair Date updat: Edit statu: F Well start: 01/08/1996 Gravel p 1: 38 Gravel p 2: 60

TC3338816.2s Page A-20

 Utm x:
 683962.709088

 Utm y:
 4348852.64891

 Site id:
 NV400000061390

Top perf:

Perf inter:

99

1

1/2 - 1 Mile Higher

> 51434 Not Reported Well log: App: Notice of: 19966 Waiver no: MO-1011 Date log r: 02/05/1996 Date log 1: D Ν Site type: Ν Work type: Work type: Not Reported

> Proposed u: Ζ Χ Drilling m: Sc: 32033 Ha: 179 N16 Legal twn: 16N Twn: Legal rng: Rng: E63 63E Sec: 10 Sec quarte: BA Legal quar: NE NW Quarters s: Not Reported

Ref: MD Latitude: 39 Longitude: 114 Lat long s: NV003

Lat long a: T

Owner curr: CITY OF ELY

Owner addr: CITY OF ELY LANDFILL

Owner no: Not Reported

Parcel no: Not Reported Subdivisio: Not Reported Lot no: Not Reported Block no: Not Reported

Well finis: 01/14/1996 Date cmplt: D Gravel pac: Υ Depth seal: 92 Depth dril: 119 Depth bedr: 0 Aquifer de: Not Reported Depth case: 119

 Csng diame:
 4.5

 Csng reduc:
 0

 Bottom per:
 119

 Static wl:
 98

 Temperatur:
 0

Temperatur: 0
Yield: 0
Drawdown: 0
Hours pump: 0

Test metho: Not Reported Qual const: G

Qual lith: G

Remarks: DRILLING METHOD=ODEX

Remarks ad: Not Reported Contractor: 00957301

Contract 1: PC EXPLORATION INC

Contract 2: 1125 W 650 NO CENTERVILLE UT

Contract 3: 0

Driller li: 1643 Source age: NV003 **KLOHAIR** 07/08/1996 User id: Date entry: 12/11/1996 Update use: klohair Date updat: Edit statu: F Well start: 01/08/1996 Gravel p 1: 97 Gravel p 2: 119

 Utm x:
 683555.303202

 Utm y:
 4348843.05681

 Site id:
 NV400000061389

10 East FED USGS USGS3089512

1/2 - 1 Mile Lower

Agency cd: USGS Site no: 391713114505801

Site name: 179 N16 E63 02A 1

 Latitude:
 391713
 EDR Site id:
 USGS3089512

 Longitude:
 1145058
 Dec lat:
 39.28688358

 Dec lon:
 -114.85029558
 Coor meth:
 M

Coor accr:MLatlong datum:NAD27Dec latlong datum:NAD83District:32State:32County:033

Country: US Land net: NES02 T16N R63E M

Location map: REPORT 42 P1 Map scale: 250000

Altitude: 6200.00

Altitude method: Interpolated from topographic map

Altitude accuracy: 100

Altitude datum: National Geodetic Vertical Datum of 1929

Hydrologic: SpringSteptoe Valleys. Nevada. Area = 5240 sq.mi.

Topographic: Not Reported

Site type: Ground-water other than Spring Date construction: 19550101

Date inventoried: Not Reported Mean greenwich time offset: PST

Local standard time flag: Y

Type of ground water site: Single well, other than collector or Ranney type

Aquifer Type: Not Reported Aquifer: Not Reported

Well depth: 96.0 Hole depth: Not Reported

Source of depth data: Not Reported Project number: Not Reported

Real time data flag: 0 Daily flow data begin date: 0000-00-00

Daily flow data end date: 0000-00-00 Daily flow data count: 0

Peak flow data begin date:0000-00-00Peak flow data end date:0000-00-00Peak flow data count:0Water quality data begin date:0000-00-00Water quality data end date:0Water quality data count:0

Ground water data begin date: 1955-06-10 Ground water data end date: 1955-06-10

Ground water data count: 1

Ground-water levels, Number of Measurements: 1

Feet below Feet to
Date Surface Sealevel

1955-06-10 50.00

AREA RADON INFORMATION

State Database: NV Radon

Radon Test Results

| # Tests | # < 4 pci/L | # > 4 pCi/L | % > 4 pCi/L | Average | Max |
|---------|-------------|-------------|-------------|---------|------|
| | | | | | _ |
| 60 | 47 | 13 | 21.67 | 3.04 | 32.8 |

Federal EPA Radon Zone for WHITE PINE County: 1

Note: Zone 1 indoor average level > 4 pCi/L.

: Zone 2 indoor average level >= 2 pCi/L and <= 4 pCi/L.

: Zone 3 indoor average level < 2 pCi/L.

Federal Area Radon Information for Zip Code: 89301

Number of sites tested: 48

Area Average Activity % <4 pCi/L % 4-20 pCi/L % >20 pCi/L Living Area - 1st Floor 2.733 pCi/L 81% 19% 0% Living Area - 2nd Floor Not Reported Not Reported Not Reported Not Reported 5.509 pCi/L Basement 43% 57% 0%

PHYSICAL SETTING SOURCE RECORDS SEARCHED

TOPOGRAPHIC INFORMATION

USGS 7.5' Digital Elevation Model (DEM)

Source: United States Geologic Survey

EDR acquired the USGS 7.5' Digital Elevation Model in 2002 and updated it in 2006. The 7.5 minute DEM corresponds to the USGS 1:24,000- and 1:25,000-scale topographic quadrangle maps. The DEM provides elevation data with consistent elevation units and projection.

Scanned Digital USGS 7.5' Topographic Map (DRG)

Source: United States Geologic Survey

A digital raster graphic (DRG) is a scanned image of a U.S. Geological Survey topographic map. The map images are made by scanning published paper maps on high-resolution scanners. The raster image is georeferenced and fit to the Universal Transverse Mercator (UTM) projection.

HYDROLOGIC INFORMATION

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

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

HYDROGEOLOGIC INFORMATION

AQUIFLOW^R Information System

Source: EDR proprietary database of groundwater flow information

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

GEOLOGIC INFORMATION

Geologic Age and Rock Stratigraphic Unit

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

STATSGO: State Soil Geographic Database

Source: Department of Agriculture, Natural Resources Conservation Services

The U.S. Department of Agriculture's (USDA) Natural Resources Conservation Service (NRCS) leads the national Conservation Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. Soil maps for STATSGO are compiled by generalizing more detailed (SSURGO) soil survey maps.

SSURGO: Soil Survey Geographic Database

Source: Department of Agriculture, Natural Resources Conservation Services (NRCS)

Telephone: 800-672-5559

SSURGO is the most detailed level of mapping done by the Natural Resources Conservation Services, mapping scales generally range from 1:12,000 to 1:63,360. Field mapping methods using national standards are used to construct the soil maps in the Soil Survey Geographic (SSURGO) database. SSURGO digitizing duplicates the original soil survey maps. This level of mapping is designed for use by landowners, townships and county natural resource planning and management.

PHYSICAL SETTING SOURCE RECORDS SEARCHED

LOCAL / REGIONAL WATER AGENCY RECORDS

FEDERAL WATER WELLS

PWS: Public Water Systems

Source: EPA/Office of Drinking Water

Telephone: 202-564-3750

Public Water System data from the Federal Reporting Data System. A PWS is any water system which provides water to at least 25 people for at least 60 days annually. PWSs provide water from wells, rivers and other sources.

PWS ENF: Public Water Systems Violation and Enforcement Data

Source: EPA/Office of Drinking Water

Telephone: 202-564-3750

Violation and Enforcement data for Public Water Systems from the Safe Drinking Water Information System (SDWIS) after August 1995. Prior to August 1995, the data came from the Federal Reporting Data System (FRDS).

USGS Water Wells: USGS National Water Inventory System (NWIS)

This database contains descriptive information on sites where the USGS collects or has collected data on surface water and/or groundwater. The groundwater data includes information on wells, springs, and other sources of groundwater.

STATE RECORDS

Nevada Well Log Database

Source: Dept of Conservation and Natural Resources, Division of Water Resources

Telephone: 775-687-4380

OTHER STATE DATABASE INFORMATION

Oil and Gas Well Database

Source: Nevada Bureau of Mines and Geology

Telephone: 775-784-6691

Oil and gas well location in the state of Nevada.

RADON

State Database: NV Radon Source: State Health Division Telephone: 775-687-7531 Radon Test Results By Zip Code

Area Radon Information Source: USGS

Telephone: 703-356-4020

The National Radon Database has been developed by the U.S. Environmental Protection Agency

(USEPA) and is a compilation of the EPA/State Residential Radon Survey and the National Residential Radon Survey. The study covers the years 1986 - 1992. Where necessary data has been supplemented by information collected at private sources such as universities and research institutions.

EPA Radon Zones Source: EPA

Telephone: 703-356-4020

Sections 307 & 309 of IRAA directed EPA to list and identify areas of U.S. with the potential for elevated indoor

radon levels.

OTHER

Airport Landing Facilities: Private and public use landing facilities

Source: Federal Aviation Administration, 800-457-6656

Epicenters: World earthquake epicenters, Richter 5 or greater

Source: Department of Commerce, National Oceanic and Atmospheric Administration

PHYSICAL SETTING SOURCE RECORDS SEARCHED

STREET AND ADDRESS INFORMATION

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APPENDIX G

Resumes



Brett C. Bottenberg, M.S., C.E.M Project Engineer

Professional Experience

Mr. Bottenberg is an Environmental Scientist and Engineer with more than 11 years of professional experience in conducting Phase I and II Environmental Site Assessments (ESAs), National Environmental Policy Act (NEPA) reviews, Spill Prevention, Control, and Countermeasure (SPCC) Plans, Bioremediation Plans, Brownfields Assessments/Project Management, complex laboratory analyses, and analytical data review. Applied experience includes conducting over 400 Phase I ESAs, Phase II ESAs, SPCC Plans and NEPA reviews throughout Nevada, California, Utah, and Arizona. Mr. Bottenberg's diverse background provides project management experience in both the regulatory and construction industries. Further, Mr. Bottenberg has valuable knowledge pertaining to contaminant transport, chemical interactions, and remediation systems.

Project Experience

Bioremediation Plan

• Confidential Oil Production Client, Nevada – Project Manager responsible for design and implementation of a bioremediation plan to treat soils contaminated with crude oil at an oil production facility in rural Nevada.

Spill Prevention, Control, and Countermeasure Plans

• Various Confidential Corporate Clients, Nevada and California — Project Manager responsible for authoring SPCC Plans for oil production facilities, bulk oil plants, and industrial/commercial facilities containing above ground oil storage greater than 1,320 gallons in order to comply with 40 CFR 112 regulations.

Phase I / II Environmental Site Assessments and NEPA Review Projects

- Confidential Corporate Client, numerous sites within Nevada and Utah Project Manager responsible for providing Phase I Environmental Site Assessments and NEPA Reviews for cellular co-location and new construction projects throughout the State of Nevada. Responsible for communication with State Historic Preservation Office (SHPO) and Native American Cultural Groups in order to comply with Section 106 of the National Historic Preservation Act, Federal Communications Commission (FCC) regulations 47 CFR 1.1301-19 and the Nationwide Programmatic Agreement for the Collocation of Wireless Antennas (PA).
- Confidential Corporate Clients, numerous sites within Nevada Project Manager responsible for providing due diligence expertise within the banking, construction, and real estate industries. Managed and authored over 350 Phase I Environmental Site Assessments and Transaction Screen Assessments for various companies located in Las Vegas and throughout the western states.
- Confidential Corporate Client, Las Vegas, NV Project manager responsible for sampling for lead based paint within Section 8 apartment housing in downtown Las Vegas.
- Confidential Public Client, Las Vegas, NV Project manager responsible for Phase I and Phase II Environmental Site Assessments performed on various properties throughout Las Vegas, Nevada.



Brownfields Projects

• State of Nevada Brownfields Projects — Project manager responsible for community outreach, local government assistance, and conducting assessments on blighted properties that are proposed to be renovated and/or developed by cities, towns, counties, or non-federal government agencies within the State of Nevada.

Laboratory Analysis and Data Review Projects

- Silver State Analytical Laboratory, Las Vegas, NV Co-founder of a large environmental laboratory in Las Vegas, NV. Provided expert knowledge of laboratory analysis, including the use of gas chromatography, gas chromatography mass spectrometry, titrations, colorimetric analysis, and atomic absorption. Responsible for regulatory documentation related to State of Nevada certification.
- Nevada Federal Public Defenders Office, Las Vegas, NV Helped provide expert analysis of chain of custody, sampling protocol, and laboratory data for a case involving the prosecution of the owners of a small metals plating business in Las Vegas, NV. Was able to provide valuable information to the Public Defender in their successful defense.
- Washington State University, Pullman, WA Research Assistant responsible for design and implementation of laboratory projects studying the effectiveness of chemical oxidation for remediation of common soil and groundwater contaminants, including benzene, toluene, perchloroethylene, and carbon tetrachloride. Designed complex soil-water systems with successful results that enabled eventual grant awards for further research in these areas.
- Washington State University, Pullman, WA Researcher responsible for design of specific laboratory systems to study Fenton's Reagent and its role in the enhanced desorption and transformation of chloroaliphatic compounds within modified Fenton's reactions. Determined that vigorous reactions of soluble iron and hydrogen peroxide can not only oxidize organic compounds, but also induce desorption of those compounds from organic material with subsequent oxidation and/or reduction.

Education

M.S., Environmental Engineering, Washington State University, 1997. B.S., Civil Engineering, Washington State University, 1995.

Certifications and Registrations

Nevada Certified Environmental Manager, EM#1690.

Engineer in Training, EIT#20066.

OSHA Hazwoper 40 Hour Certification.

OSHA Hazwoper 8 Hour Refresher.

Adult First Aid/CPR/AED Certification.

Affiliations

Commercial Real Estate Development Association (NAIOP).

Nevada Professional Facilities Managers Association (NPFMA).



Joseph M. McGinley, P.E., P.G., C.E.M. Principal

Professional Experience

Mr. McGinley is a Professional Engineer (NV), Professional Geologist (CA) and Certified Environmental Manager (NV) with more than 28 years of service to long standing and new clients alike. He has developed experience through a wide range of project types, environmental conditions, and multiple regulatory agency liaisons. Mr. McGinley has a strong background in site characterization, corrective action plan development and in the design and implementation of remedial systems. He is acutely familiar with federal, State and local environmental regulations and has developed a familiar relationship with the administrators of those agencies throughout the West.

Selected Project Experience

Phase I Environmental Site Assessments

• Project Principal responsible for the completion of over 400 Phase I ESAs in Nevada, California, Arizona, Oregon and Utah. Projects performed for various lending institutions, developers, governmental agencies, private property owners, non-profit organizations, and others. The Phase I ESAs are prepared in accordance with the American Society for Testing & Materials (ASTM) standard E1527–05 and the All Appropriate Inquires (AAI) as promulgated in the USEPA ruling 40 CFR part 312.

Select Environmental Site Assessment and Remediation Projects – Chlorinated Solvents and other CoCs

- Boeing/Rocketdyne Former Nevada Field Laboratory, Reno NV Project Principal responsible for providing system design and performing the remediation of chlorinated solvents and perchlorate at three sites of this former rocket engine test facility.
- BMI Complex and Common Areas, and Las Vegas Wash, Henderson, NV Project Principal responsible for administering and directing the technical review team services for third–party review of the assessment and remediation of broad suites of contaminants in soil, groundwater, and surface water.
- Harrah's Hotel and Casino, Reno, NV Project Principal responsible for the design and
 oversight of installation of two air stripping units to remove PCE from groundwater as part of
 perpetual de–watering activities. Each stripping unit was designed to be capable of treating 500
 gallons per minute and was permitted to discharge via a NPDES permit to an adjacent surface
 water body.
- **Big Tree Cleaners, Tahoe City, CA** Project Manager responsible for services including: permitting; regulatory liaison; corrective action plan preparation (chlorinated solvent (PCE) contamination); remedial system design, installation, monitoring and reporting.
- Reno Old Town Mall, Reno, NV Project Principal responsible for providing services including: groundwater monitoring; corrective action plan preparation; remedial system design and regulatory liaison for this PCE release site.



• State of Nevada Division of Environmental Protection, Downtown Reno Ground Water Characterization Project, Reno, NV – Project Manager responsible for the assessment and characterization of a PCE plume in downtown Reno, Nevada which impacts a potable water supply.

Select Environmental Site Assessment and Remediation Projects – Petroleum Products

- University of Nevada, Reno, NV Project Manager responsible for the closure of the former Dodd/Beal fire fighting academy located in Stead, Nevada. Performed site characterization and assessment of the 57 acre parcel followed by the completion of a human health risk assessment to establish Site Specific Target Level (SSTL) for soil remediation. Remedial technologies utilized at this site included air sparging, monitor natural attenuation, bioremediation and vacuum extraction.
- Berry Hinckley Industries, various sites, CA and NV Project Principal responsible for the assessment, remediation and state petroleum fund reimbursement procurement at several petroleum product sites.. Services included site assessments, remedial design, and remediation system operation and optimization.
- Gold Ranch Casino, Verdi, NV Project Principal responsible for services including: site assessment, free petroleum product (NAPL) removal, groundwater remediation design and system operations.
- State of Nevada Division of Environmental Protection (NDEP) Project Manager for the administration of the Federal LUST TRUST program for the State of Nevada.
- Crose Properties, Truckee, CA Project Principal responsible for the assessment and remediation activities performed at two former retail gasoline sites.
- Squaw Valley Ski Resort, Squaw Valley, CA Project Principal responsible for the oversight of UST removal activities; site assessments; permitting; corrective action plan preparation; remedial system design, installation, monitoring and reporting.
- Former Allied Washoe Bulk Plants, various sites, CA and NV Project Principal responsible for providing assessment and remediation services for three bulk fuel distribution facilities. Services provided included: contaminated soil excavation; dewatering activities; permitting; regulatory liaison; corrective action plan preparation; remedial system design, installation, monitoring and reporting.
- Elko County School District property, Elko, NV Project Principal responsible for providing services including: contaminated soil excavation; site assessment permitting; regulatory liaison,; corrective action plan preparation and reporting.
- Carson Valley Oil Bulk Plant Project Principal responsible for site assessment and remediation services following a kerosene release at this operating bulk fuel plant. Services performed included site assessment; corrective action plan preparation; remedial system design, installation, monitoring and reporting.



- Winnemucca Farms, Winnemucca, NV Project Principal responsible for providing services including: site assessment; vadose zone monitoring; groundwater flow and contaminant transport modeling performed at an operational potato processing plant.
- State of Nevada Division of Environmental Protection Project Manager for the administration of the Federal Environmental Mitigation and Assessment program (EMAR), State of Nevada.
- Cutler Property, Susanville, CA Project Principal responsible for providing services including: site assessment; corrective action plan preparation; and remedial system design for this former gasoline service station.
- State of Nevada Division of Environmental Protection, various sites, Sparks, NV –
 Project Manager responsible for providing third party review of ground water remediation of
 petroleum hydrocarbons and chlorinated solvents at the Sparks tank farm and Helms Pit for
 NDEP and the Washoe County Health District.
- University of Nevada, Reno, various sites, NV Project Manager responsible for the oversight of the removal of 20 USTs; and providing site assessments and remediation system design/installation/operation for these sites, as applicable.
- Western Energetix Corporation, various sites, CA and NV Project Manager responsible
 for providing services relating to LUST site assessment and remediation activities performed at
 15 facilities in Nevada and California. Remedial technologies employed included bioremediation,
 air sparging, vacuum extraction and ground water pump and treat.
- First Interstate Bank, Reno, NV Project Manager responsible for providing services including the assessment and monitoring of PCE and TCE at this proposed commercial development site.
- ARCO Products, various sites, NV Project Manager responsible for providing site assessments and remedial designs for 12 facilities in northern Nevada.
- Texaco USA, Inc., various sites, NV Project Manager responsible for providing services related to site Assessments and remedial designs for five facilities located in Nevada. Remedial technologies employed included groundwater pump and treat, air sparging, vacuum extraction.
- Nevada Thermal Service, various sites, NV Project Manager provided review of California
 Title 22 Hazardous Waste Classification of soils imported to the State of Nevada for over 100
 sites.
- Sierra Pacific Power Company, Elko, NV Project Manager providing remedial design utilizing bioventing following UST removal at this facility.
- Regional Transportation Company, Reno, NV Project Manager responsible for oversight of UST removal, upgrade activities, site assessment and remedial actions.
- City of Sparks, Nevada Project Manager responsible for the oversight of the removal of 18 USTs, site assessment activities and remedial actions.
- **Dermody Properties, various sites, NV** Project Manager responsible for the oversight of UST removal at 10 facilities, site assessment and remedial actions.



- Silver State Trucking, Sparks, NV Project Manager responsible for the design and permitting of free phase (NAPL) petroleum product removal system and groundwater pump and treat system at this truck stop.
- Time Oil Property, Fallon, NV Project Principal responsible for providing services related to a UST petroleum product release at this operating facility including environmental site assessment, regulatory liaison, corrective action plan preparation, remedial system design and report preparation.
- Buggy Bath Car Wash, Reno, NV Project Manager responsible for the design of an in-situ vacuum extraction system, groundwater pump and treat and air sparging system at this operating facility in Reno, NV.

Select Brownfields Projects

State of Nevada, Brownfields Contract, NV - Project Principal responsible for the implementation of the State of Nevada's Brownfields Grant throughout the State of Nevada. Services included development and review of applications for governmental and municipal clients; development of project documents including Phase I and II ESAs, human health risk assessment, health and safety plans, etc.; and acquiring regulatory closure for these sites.

Select Expert and Material Witness Projects

- University of Nevada System v Clark Sullivan Constructors, et al
- Nevada Division of Environmental Protection and Dermody Properties vs. Sparks Fuel and Solvent site consortium
- Kelly v State Farm, et al
- Time Oil v Fredrickson Trucking, et al
- NDEP v Hagar
- Fallon Lawsuit (Leukemia cluster)

Education

M.S., Civil Engineering, University of Colorado, Boulder, 1983.

B.S., Geological Engineering, University of Nevada, Reno, 1980.

Certifications and Registrations

Professional Engineer, Nevada, GEO #7472.

Professional Geologist, California, PG #7409.

Certified Environmental Manager, Nevada, CEM #1036.

OSHA, 29 CFR 1910 40-Hour, Hazardous Waste Operations and Emergency Response (HAZWOPER).

MSHA Part 46, New Miner Training.