



MASTER PLAN AND REGULATORY ZONE AMENDMENT

CHOCOLATE DRIVE

SUN VALLEY, NEVADA

APN: 502-250-09

Prepared for:
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Carmel, IN

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Reno, Nevada
January 2022
192233001
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TABLE OF CONTENTS

1. INTRODUCTION 1

2. PROJECT LOCATION 1

3. EXISTING CONDITIONS 2

 3.1. Site Information..... 2

 3.2. Hillside Grading 5

 3.3. Summary of Phase I Environmental Site Assessment..... 5

4. REQUEST SUMMARY 6

 4.1. Master Plan Amendment..... 6

 4.2. Regulatory Zone Amendment 9

 4.3. Truckee Meadows Regional Plan Amendment..... 12

 4.4. Affordable Housing Process..... 15

5. AGENCY COORDINATION 16

 5.1. Sun Valley General Improvement District..... 16

 5.2. Washoe County Regional Transportation Commission 16

 5.3. Washoe County Engineering Department 16

6. PLANNING POLICY ANALYSIS 17

 6.1. Sun Valley Area Plan 17

 6.2. Washoe County Master Plan 21

 6.2.1. Housing Element..... 21

 6.2.2. Conservation Element..... 22

 6.2.3. Population Element 23

 6.2.4. Land Use and Transportation Element 23

 6.2.5. Public Services and Facilities Element 25

 6.3. Washoe County Development Code Article 218 – Sun Valley Area 27

 6.4. Truckee Meadows Regional Plan..... 27

 6.4.1. Goals..... 27

 6.4.2. Policies..... 28

 6.4.3. Housing Crisis 29

7. REQUEST FINDINGS 29

 7.1. Master Plan Amendment..... 30

 7.2. Regulatory Zone Amendment 31

 7.3. Sun Valley Area Plan Findings..... 33

 7.4. Truckee Meadows Regional Plan Findings 33

LIST OF APPENDICES

Appendix A Washoe County Development Application
Appendix B Owner Affidavits
Appendix C Master Plan Amendment Application
Appendix D Regulatory Zone Amendment Application
Appendix E Proof of Property Tax Payment
Appendix F Slope Analysis
Appendix G Red Hill Conceptual Plan
Appendix H Existing Conditions Exhibit and ALTA

LIST OF FIGURES

Figure 1 – Vicinity Map..... 1
Figure 2 – Site Photos..... 4
Figure 3 – Sun Valley Area Plan Land Use 7
Figure 4 – Existing/Proposed Land Use 8
Figure 5 – Sun Valley Area Plan Zoning Map.....10
Figure 6 – Existing/Proposed Zoning11
Figure 7 – Site Proximity to RTC Bus Services13
Figure 8 – Existing/Proposed TMRP Tier Designation.....14

1. INTRODUCTION

This application includes the following requests:

- A **Master Plan Amendment** (“MPA”) to re-designate APN 502-250-09 from Suburban Residential (SR) to Urban Residential (UR); and
- A **Regulatory Zone Amendment** (“RZA”) to rezone APN 502-250-09 from Medium Density Suburban (MDS) to Medium Density Urban (MDU).

These amendments are required to allow for a future project consisting of a low-income affordable multi-family residential development. This development is anticipated to include approximately twenty two-story apartment buildings (approximately 240 units) with a clubhouse and swimming pool, covered parking spaces, mail kiosk, playground, and recreational amenities.

2. PROJECT LOCATION

The Chocolate Drive project site (the “Site”) is approximately 45.51± acres and is located in southwest Sun Valley at the western edge of a residential area generally comprised of single-family homes, approximately half a mile west of Sun Valley Blvd. The APN for the parcel is 502-250-09 (the “Parcel”). See Figure 1 – Vicinity Map for project location. The Parcel stretches north south along Chocolate Drive from W 2nd Ave to W 5th Ave and borders Red Hill (Washoe County Open Space) to the west. The Site will be accessed from the freeway system via the following streets:

- | | |
|----------------------------|----------------------------|
| ▪ Chocolate Drive | ▪ Brownlee Lane |
| ▪ West 4 th Ave | ▪ West 5 th Ave |
| ▪ Gepford Parkway | ▪ Sun Valley Boulevard |
| ▪ Clear Acre Lane | ▪ West 2 nd Ave |

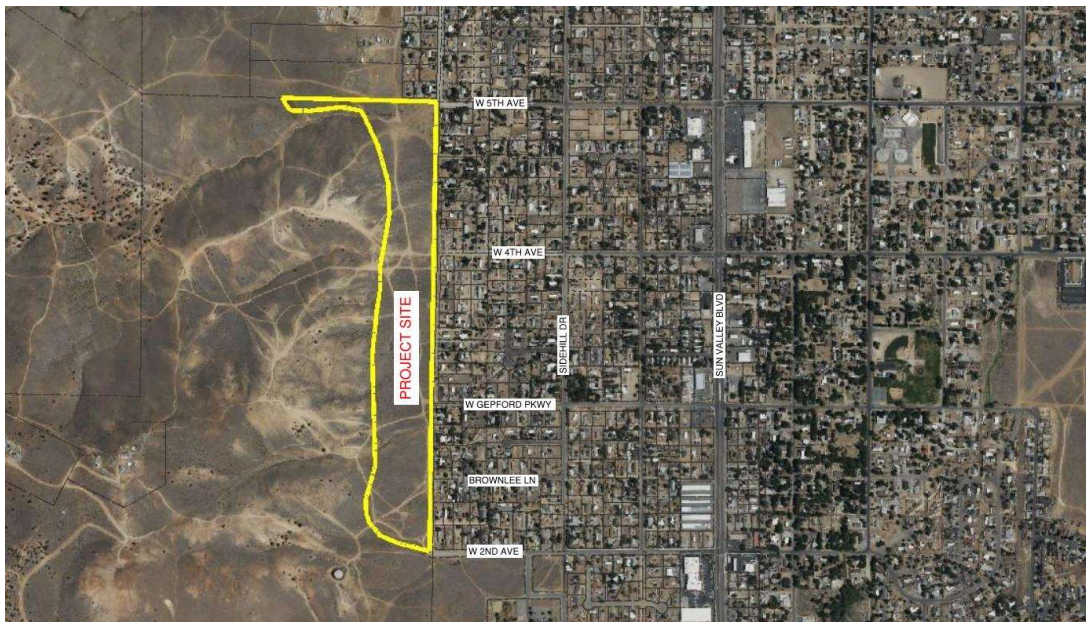


Figure 1 – Vicinity Map

3. EXISTING CONDITIONS

3.1. Site Information

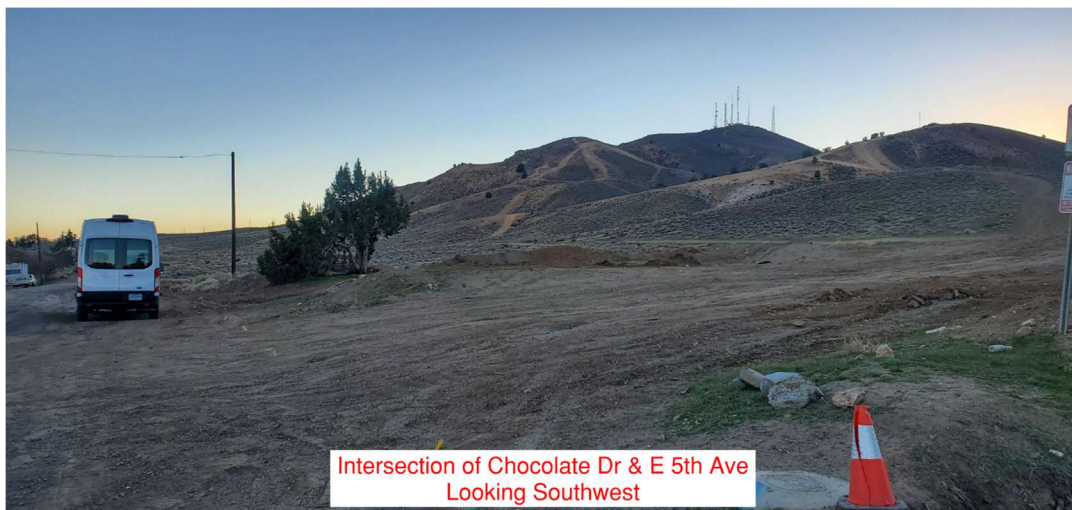
The Parcel is currently vacant with some existing utilities (water, electric, and gas) and dirt roadways. See Figure 2 – below for site photos and Appendix H for an Existing Conditions Exhibit and American Land Title Association (ALTA) Survey performed by MAPCA Surveys, Inc. The Site lies entirely in Zone X per FEMA Flood Map 32031C3033G dated March 16, 2009. Adjacent Master Plan Land Use designations include the following:

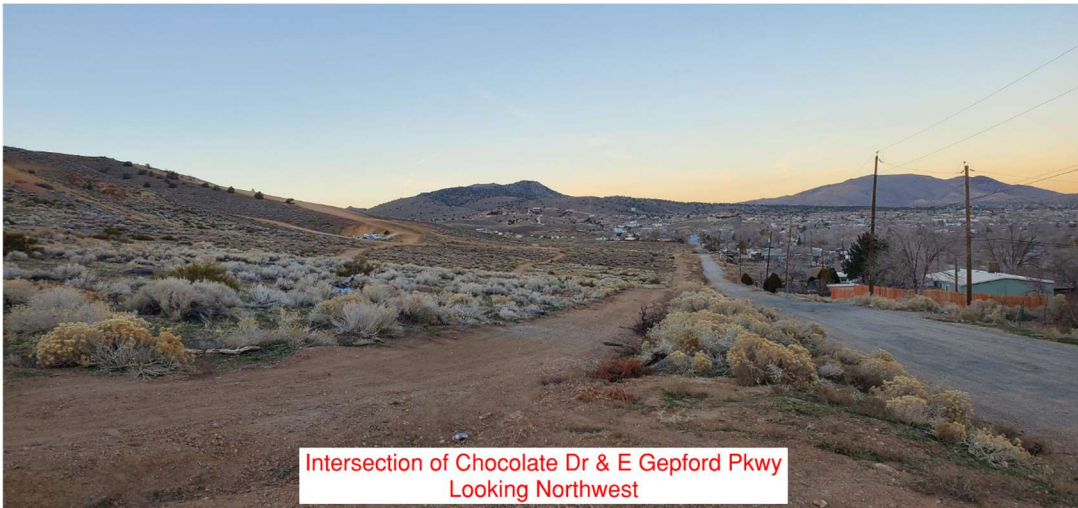
- North: Suburban Residential
- South: Open Space
- East: Suburban Residential
- West: Open Space

Adjacent Regulatory Zone designations and uses include the following:

- North: Medium and Low Density Suburban
 - Vacant and Single Family Residential
- South: Open Space
 - Vacant
- East: Medium Density Suburban
 - Single Family Residential
- West: Open Space
 - Vacant

These Land Uses and Regulatory zones can be seen in Figure 3 and Figure 4 in Section 4 of this report.





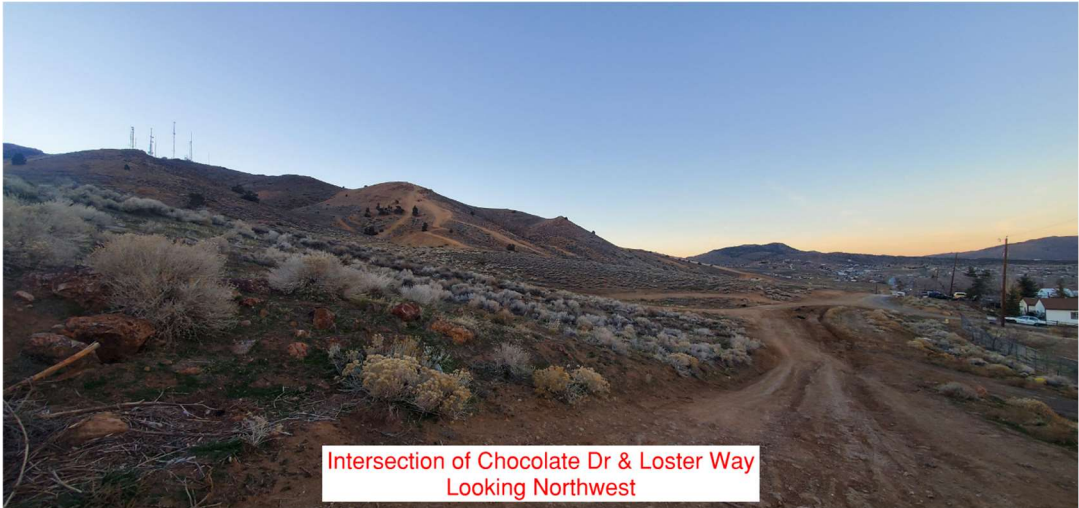
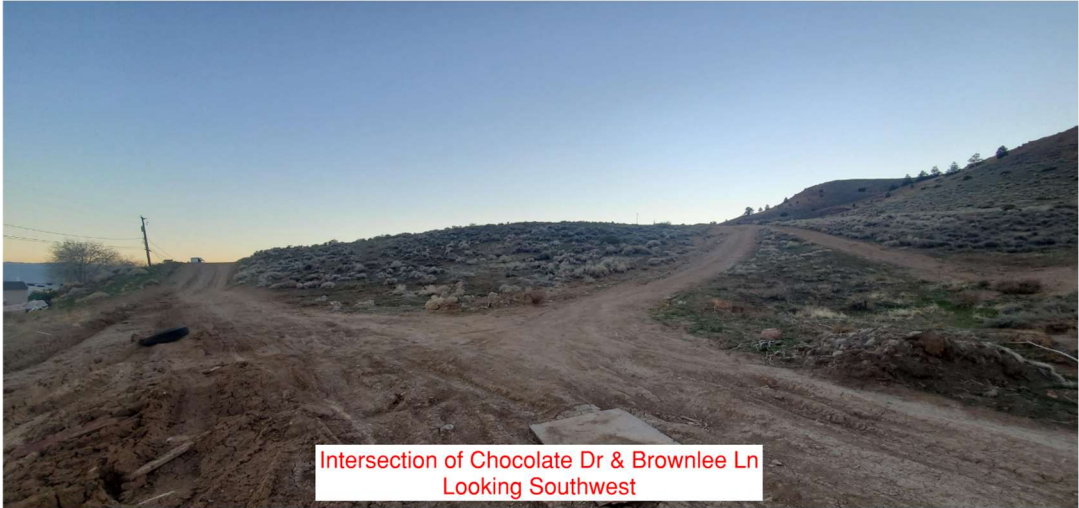


Figure 2 – Site Photos

3.2. Hillside Grading

The majority of the Site is 0-15% slopes, while approximately 43%± is greater than 15% slope. Per Washoe County Development Standards Section 110.424.04, the site is applicable to Hillside and Ridgeline Development. A Slope Exhibit is included as Appendix F of this report. At this time, a formal site plan has not been established and precise location of buildings in relation to slopes has not been analyzed. As the site plan reaches a more formal design, the intent of the applicant is to follow the requirements for developable area analysis, site analysis, design standards, etc. as set forth by Article 424 of the Washoe County Development Code.

3.3. Summary of Phase I Environmental Site Assessment

A Phase I Environmental Site Assessment (ESA) was performed by Arkose Environmental, Inc. for the Site and is included with this MPA and RZA submittal package. The results of the ESA as they pertain to the MPA and RZA are generally summarized as follows:

According to USGS Quadrangle 7.5-minute series topographic map, an intermittent stream is depicted in a general west-east direction on the north portion of the Parcel. No other water conveyances are depicted on the Parcel. Upon further research, the ESA explains that the U.S. Fish and Wildlife Service National Wetlands Inventory map revealed that this intermittent stream at the north end of the Parcel could potentially contain jurisdictional wetlands including Waters of the U.S. The future improvements on this Parcel will avoid any impacts to these potential wetlands.

The general surface topography of the Site is hillside (along the west boundary) and moderately sloping to the east. The soil throughout the Parcel is a mixture of Indian Creek sandy loam, Manogue cobbly clay, Surgem-Rock outcrop complex, Risley-Rock outcrop complex, Risley cobbly loam, and Zephan-Rock outcrop-Smallcone complex.

According to the ESA, an analysis of the National Register of Historic determined that there are no historical sites on or within a one-mile radius of the Parcel. The ESA also identified that there are no critical habitats, refuges, or fish hatcheries within the Parcel and there are no endangered species that would be affected by the development of the Site.

Lastly, there are mountainous areas to the west and there is an active fault on the west side of the Parcel per the USGS Quaternary fault map. Per Washoe County Development Code, a 10' setback from the fault line is required and will be shown on the final recorded map. Future structures will not be placed within this 10' setback. The fault location is shown in Appendix H.

4. REQUEST SUMMARY

This application includes two corresponding amendments in order to allow for consideration of multi-family use for the Parcel. The first is a Master Plan Amendment from the current Suburban Residential designation to Urban Residential. The second request is a Regulatory Zone Amendment from the current Medium Density Suburban zoning to Medium Density Urban. Sections 4.1 – 4.3 below summarize these requests.

The intent of these amendments is to position the Parcel for a potential future low-income multi-family residential development. However, it is important to note that this application is only the first step in establishing multi-family residential use for the Parcel. Approval of the MPA and RZA do not grant an approval of a specific project. This application, if approved, grants the land use designation and zoning that will allow for the Administrative Permit review of a subsequent project that must meet the provisions of the Washoe County Development Code along with the applicable legal findings required by the Administrative Permit review.

4.1. Master Plan Amendment

It is proposed to amend the current Suburban Residential (SR) Master Plan designation of the Parcel to Urban Residential (UR). The UR designation will allow for increased density for this Parcel. This would allow for future consideration of multi-family development for this Parcel which could serve to diversify the housing options within Sun Valley. While UR designation allows for higher density housing, it is important to note that the density will still be comparable to nearby SR designated land. For approximately 240 multi-family units on a 45.51± acre parcel, and excluding any slopes greater than 30 percent, density for the site would be approximately six (6) units per acre. Figure 4 – Existing/Proposed Land Use below shows the proposed change to the Master Plan land use designation.

Diversification of the housing stock within Sun Valley is beneficial in that there are very limited multi-family offerings within the Planning Area. As can be seen in Figure 3 – Sun Valley Area Plan Land Use below, most of Sun Valley is Suburban Residential. The project is well suited to meet the needs of this growing community and will provide housing opportunities for low-income families.

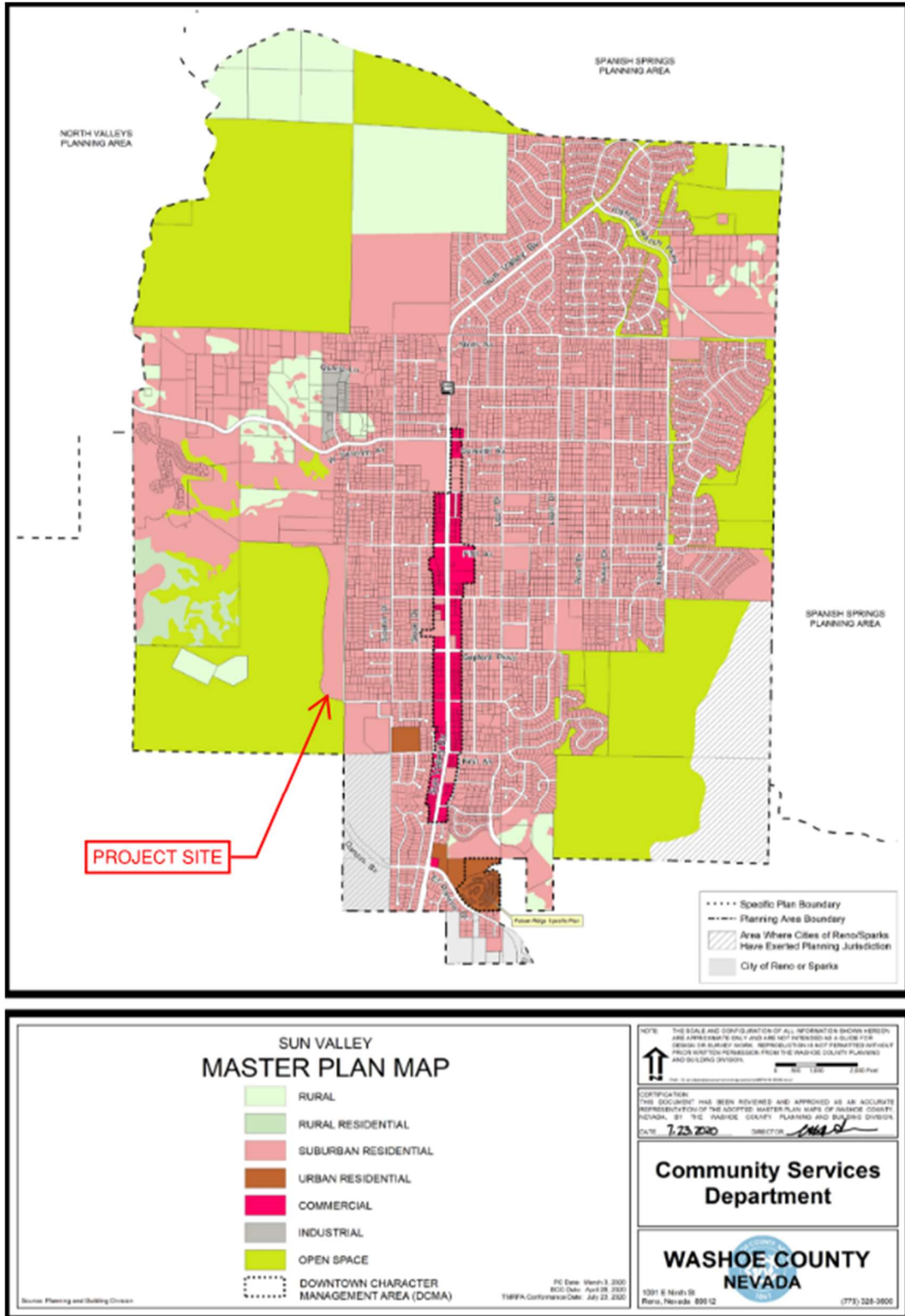


Figure 3 – Sun Valley Area Plan Land Use

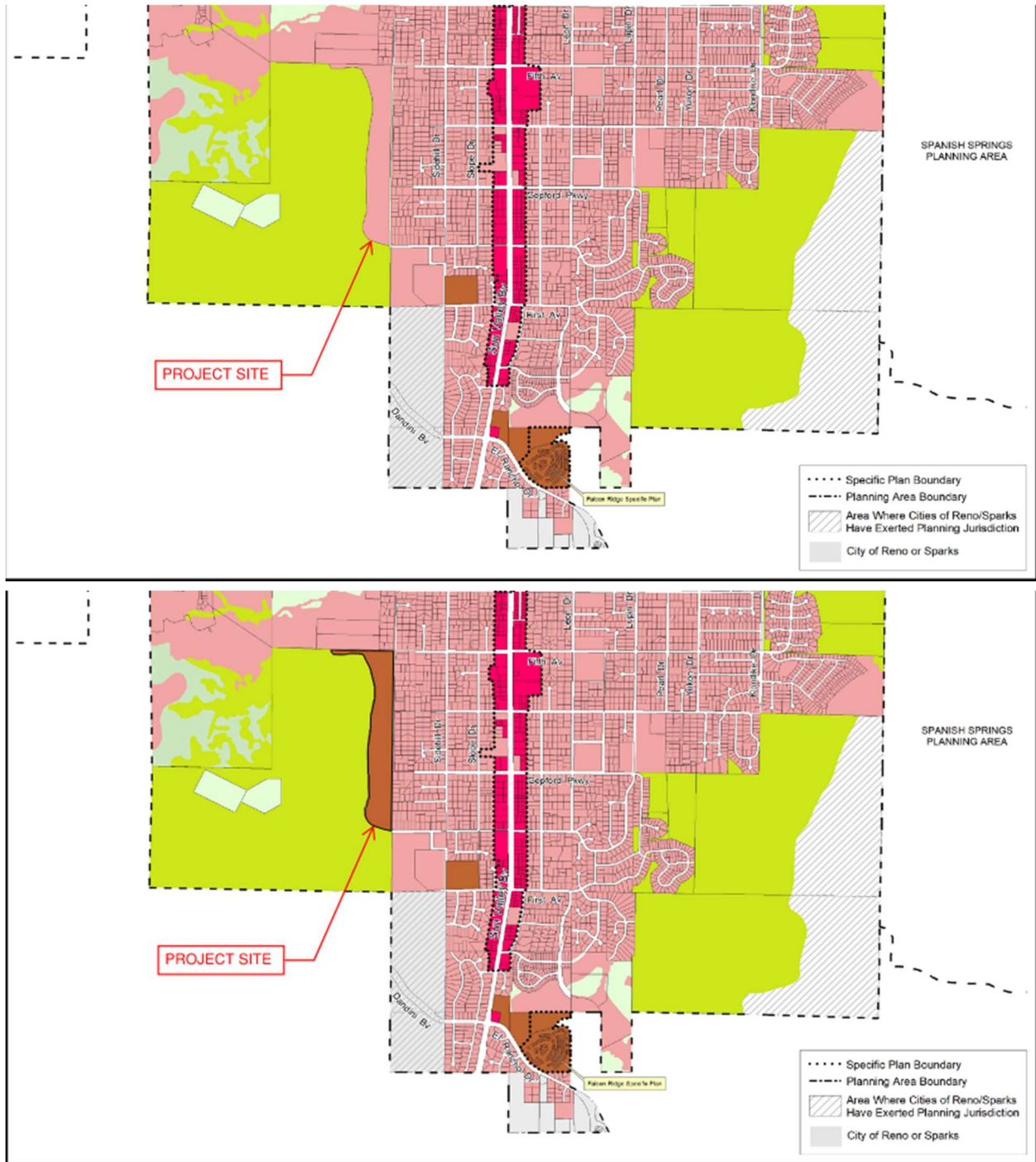


Figure 4 – Existing/Proposed Land Use

4.2. Regulatory Zone Amendment

This application proposes to rezone the Site from the current Medium Density Suburban (MDS) to Medium Density Urban (MDU). The MDU designation will allow for the development of multi-family residential units at a maximum density of 21 dwelling units per acre. While MDU zoning would allow up to 21 dwelling units per acre, if the 240 units projected for the Site are built, this would amount to approximately 6 units per acre (after excluding land with slopes of greater than 30%).

The proposed MDU zoning is compatible with the proposed UR Master Plan designation and will provide for affordable multi-family residential use that is complementary to adjoining residential development. It is important to note that the Parcel is within the Suburban Character Management Area and Medium Density Urban is currently an approved use under the Sun Valley Area Plan section SUN.1.3. Establishment of affordable multi-family use at the Site can serve to diversify the housing options within Sun Valley. It will also help provide housing opportunities to people of different economic backgrounds.

The Sun Valley Area has limited diversification in housing options. As Figure 5 – Sun Valley Area Plan Zoning Map on the following page illustrates, the majority of housing within Sun Valley is zoned Medium Density Suburban (MDS). There are several multi-family residential developments in southeast Sun Valley, but these offerings are limited to a few small apartment complexes. Additionally, a need for low-income affordable housing within the Sun Valley and Washoe County area has been identified in which this project could assist.

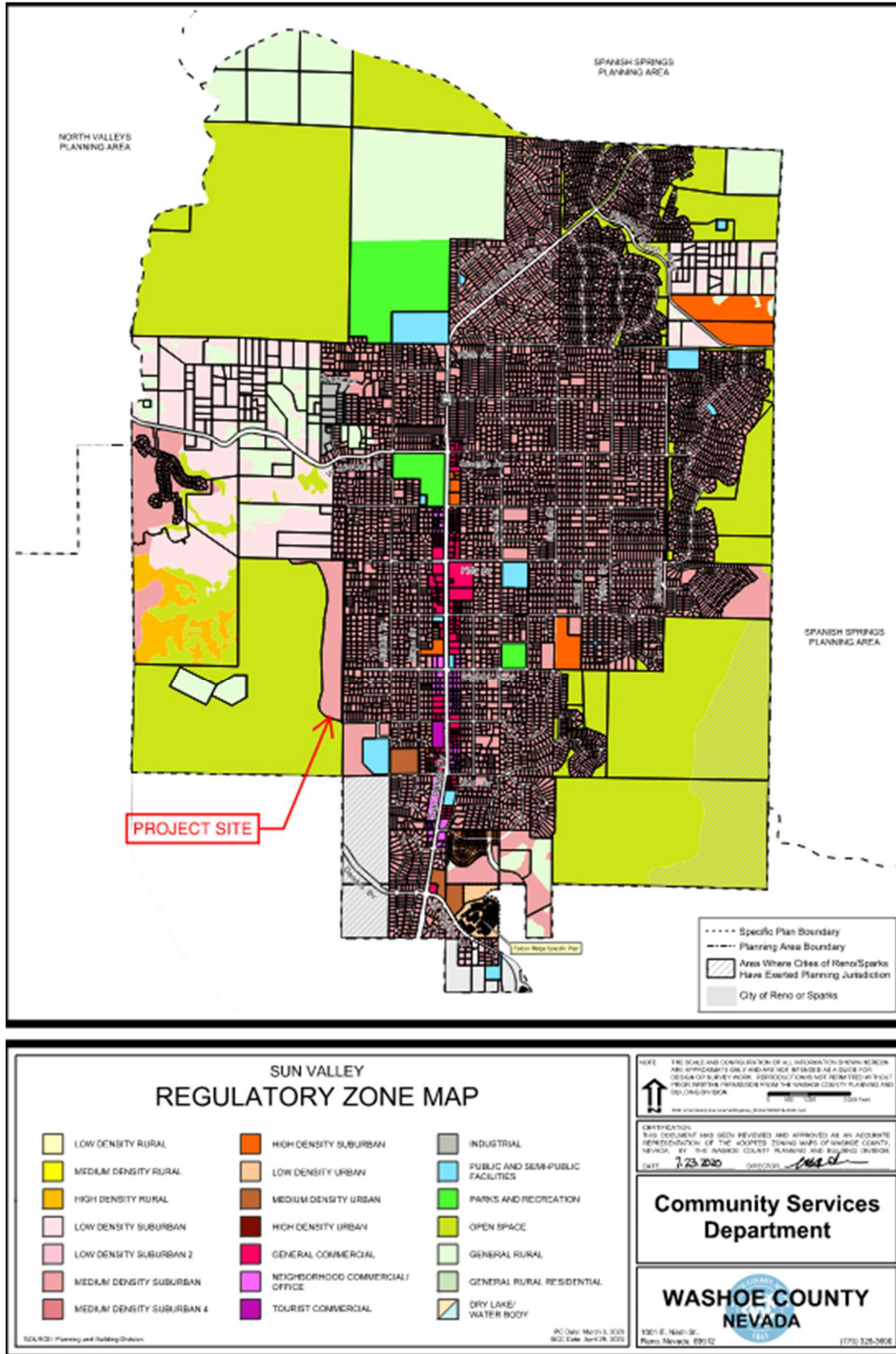


Figure 5 – Sun Valley Area Plan Zoning Map

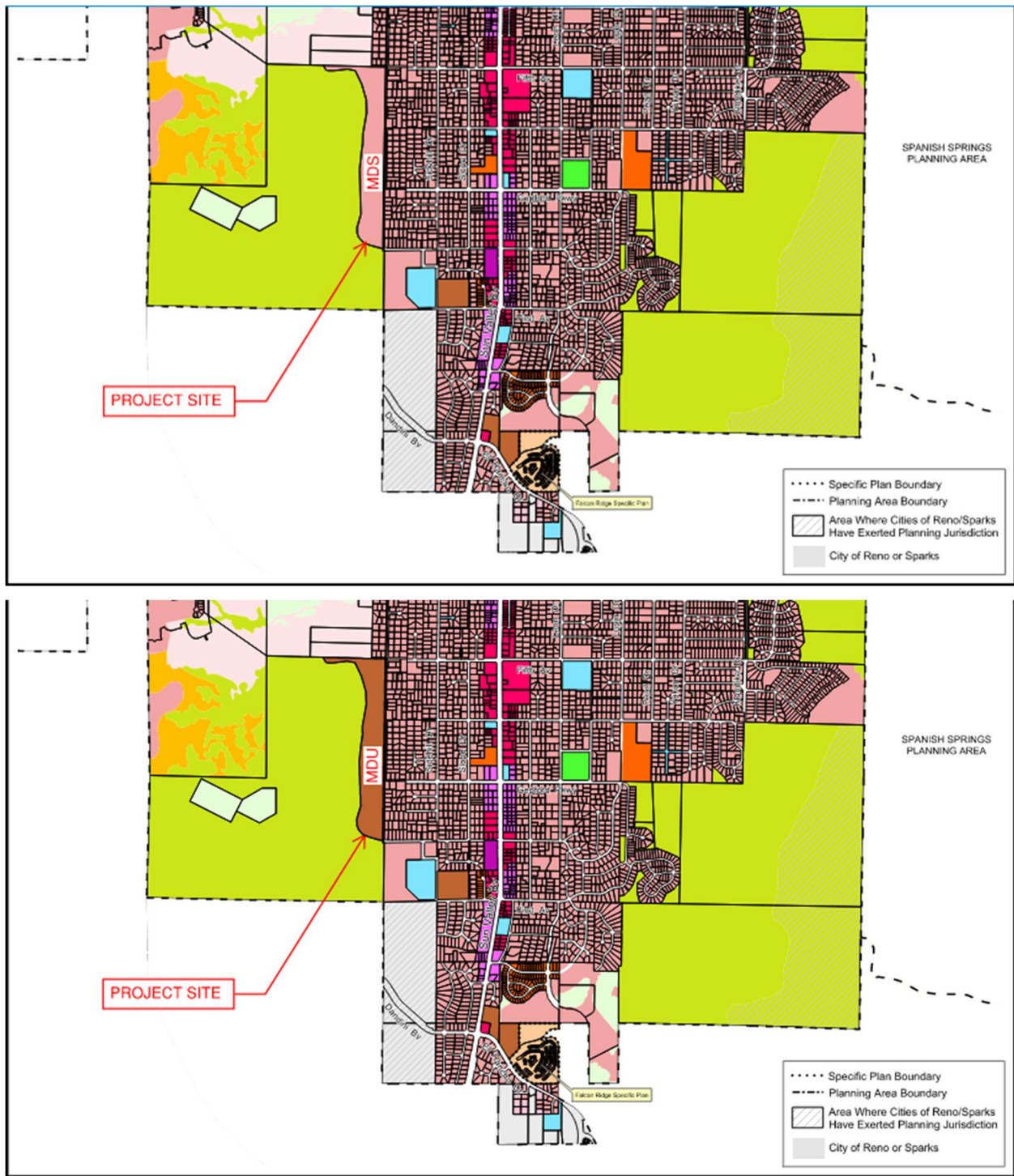


Figure 6 – Existing/Proposed Zoning

4.3. Truckee Meadows Regional Plan Amendment

The Regional Form section of the 2019 Truckee Meadows Regional Plan (TMRP) designates three Tiers for land within the Truckee Meadows Service Area. This application proposes to amend the TMRP Tier for this Parcel from Tier 3 Land to Tier 1 Land. Tier 1 Land is defined by the Truckee Meadows Regional Plan as the following:

“Area within the TMSA where moderate/varying range development is expected and number two in the priority hierarchy for development. A variety of residential and non-residential uses exist in this area. A majority of the area within this Tier is already developed, or within close proximity to existing development. Public facilities and services are generally in place. This area is mostly served by transit or has multi-modal connectivity.”

The existing Tier 3 designation of this Parcel does not allow for multi-family residential. As shown above, Tier 1 Land will be most suitable for multi-family development. Changing this Parcel to Tier 1 is also compatible with the surrounding area as most of Sun Valley is already in Tier 1.

Additionally, public facilities such as an elementary school and services such as Red Hill Washoe County open space trails are located nearby. Existing Washoe County Regional Transportation Commission bus services are within a half mile of the Parcel on Sun Valley Boulevard, as shown in Figure 7 – Site Proximity to RTC Bus Services on the following page. Figure 8 – Existing/Proposed TMRP Tier Designation on page 14 of this report shows the proposed amendment to the TMRP Tier Designation.

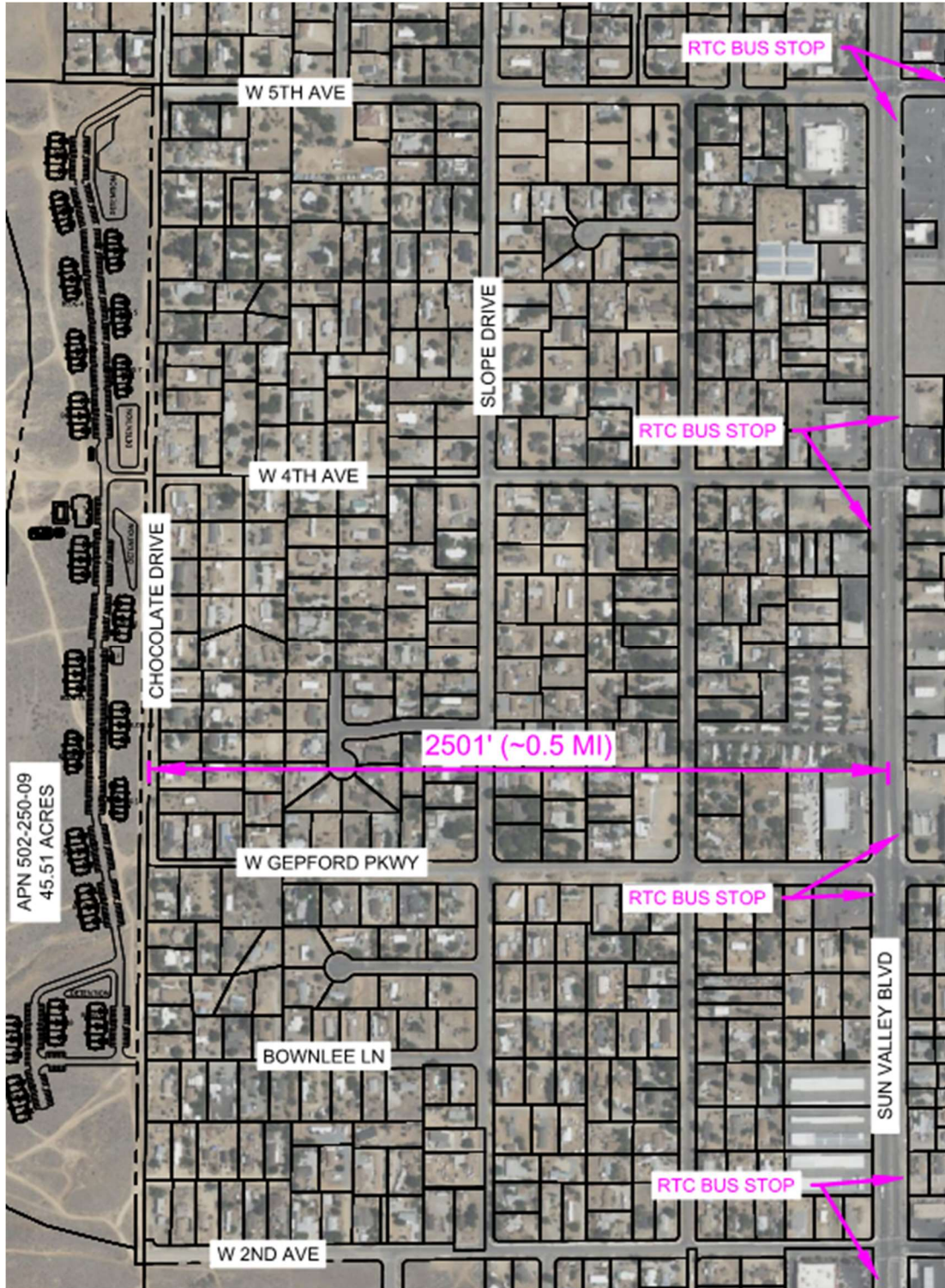


Figure 7 – Site Proximity to RTC Bus Services

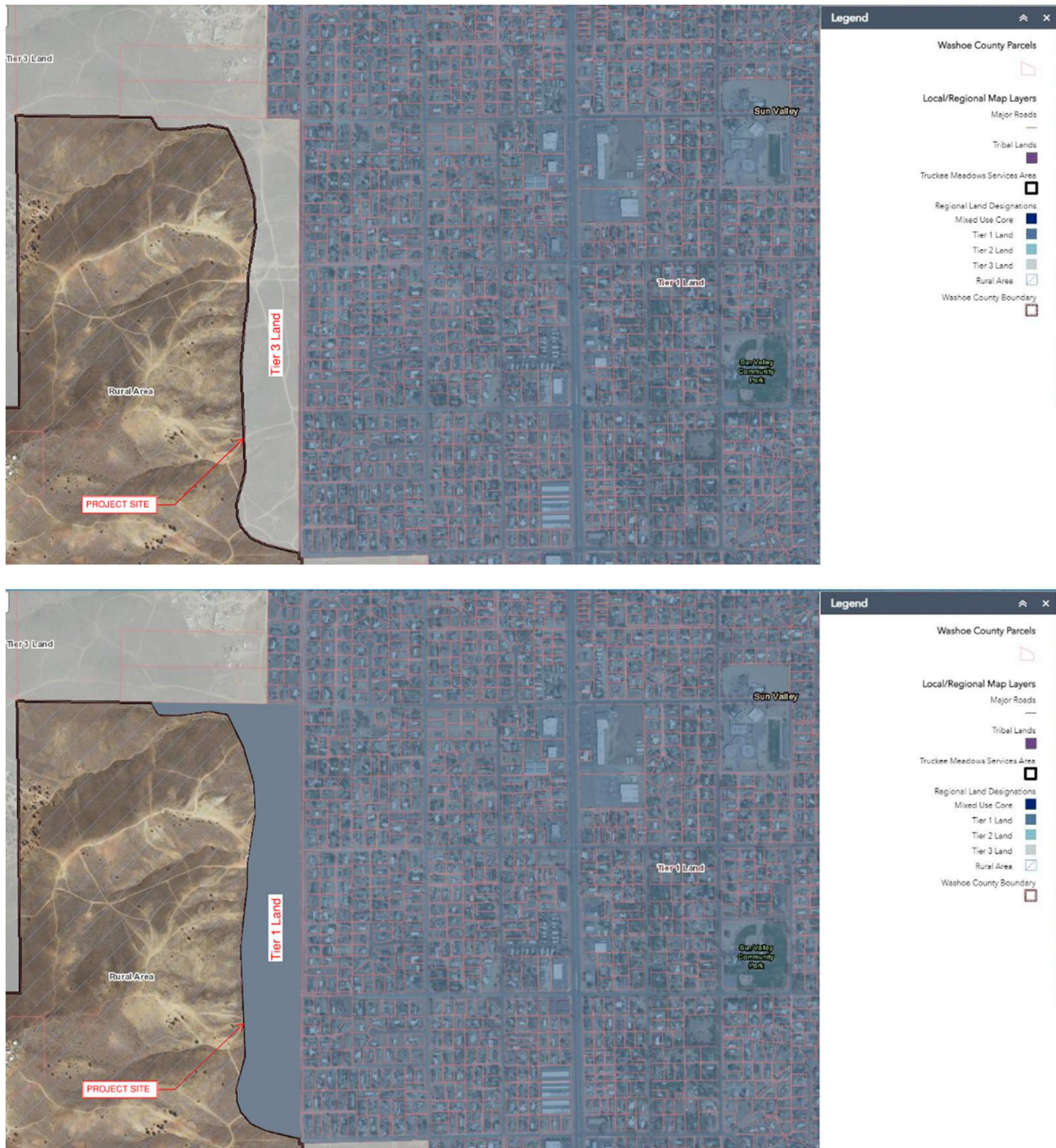


Figure 8 – Existing/Proposed TMRP Tier Designation

4.4. Affordable Housing Process

The amendments proposed in this report would allow for the future consideration of a low-income affordable housing development on the Parcel. The Applicant is an affordable developer with 20,000+ affordable units developed and managed within its current portfolio. As established under 26 U.S. Code § 42, the Applicant intends to, at a minimum, agree to restrict maximum chargeable rents to that as outlined by the I.R.S. for individuals at or below 60% of the Area Median Income and plan on 100% of the units being restricted as such. Under §42, each State is responsible for the administration of the process. Accordingly, the Nevada Housing Division enacts a Qualified Allocation Plan (“QAP”) in order to award the tax credits tied to affordable housing developments. The Application will be applying for 4% tax credits, which are generally not competitive. Additionally, the Applicant will be applying for tax exempt bonds used for the purpose of affordable housing as required under § 42. The Applicant cannot yet apply for tax credits until the site is appropriately zoned pursuant to the requirements of the current QAP. Upon obtaining proper zoning, the Applicant will apply for such tax credits as soon as all necessary application materials are prepared and at such time as is allowed under the QAP.

In addition to this, the Federal Government issues HOME Investment Partnerships Program (HOME) funds to every state. The State of Nevada has allocated a portion of its HOME funds to the Washoe County HOME Consortium, who is the authority responsible for issuing HOME funds for affordable developments in Washoe County. Providing affordable housing is a requirement for the issuance of HOME funds from this authority. For the 2022-2023 funding of the Washoe County HOME Consortium HOME funds, applications were due on December 9, 2021, for which the Applicant has filed an application.

The 4% tax credits issuance and the HOME funds issuance require a Land Use Restriction Agreement (LURA) recorded on the land that would ensure restricted rents for a combined minimum of 30 years for this development.

5. AGENCY COORDINATION

As part of the due diligence process and future project feasibility, several public agencies were coordinated with to understand limitations, preferences, and current policy guidelines.

5.1. Sun Valley General Improvement District

The Sun Valley General Improvement District (SVGID) has indicated that the Project is within their service territory and will supply water, sanitary sewer, parks & recreation, and garbage services.

There are currently water lines and fire hydrants along Chocolate Drive. However, there are no sewer lines along Chocolate Drive at the frontage of the Project. A formal capacity study was initiated on December 3, 2021 with the SVGID to determine water and sewer capacity for the future Project. The results of the capacity study will determine requirements for project feasibility, potential upgrading of lines, offsite improvements, cost implications, and sizing of systems. If determined that the Project has adequate capacity for water and sewer from the SVGID, the necessary main extensions and water rights will be designed and obtained for the future Project.

5.2. Washoe County Regional Transportation Commission

The Washoe County Regional Transportation Commission (Washoe County RTC) has asked that potential traffic impacts to Sun Valley Boulevard be analyzed to ensure the acceptable level of service is met at the intersections. A traffic study prepared by Kimley-Horn addresses this requirement and is provided in this MPA submittal package.

The RTC has also indicated that the future Project will not require a bus stop based upon its future size of 240 multi-family units. In addition, the RTC does not recommend any deviation of current bus routes from Sun Valley Boulevard to the Project

5.3. Washoe County Engineering Department

Coordination with the Washoe County Engineering Department was performed to determine potential paving requirements of Chocolate Drive and surrounding access roads. They have indicated that the new development would need to provide access to the development and will need to provide two points of ingress and egress. Potential access points to Chocolate Drive currently appear to be privately owned with possible easements over the existing roads. A portion of Chocolate Drive is under the same ownership as the Project. If the future Project moves into engineering design, coordination with the appropriate public agencies will continue to determine access points and streets to be paved.

6. PLANNING POLICY ANALYSIS

The proposed Master Plan and Regulatory Zone Amendments must be reviewed for consistency with the goals and policies of the Washoe County Master Plan, Sun Valley Area Plan, and Truckee Meadows Regional Plan. Each of these planning documents is addressed below:

6.1. Sun Valley Area Plan

The Sun Valley Area Plan contains policies that must be conformed to with all development in Sun Valley. The following is a list of policies that are applicable to this MPA and RZA, followed by an explanation of how each is being conformed to:

SUN 1.6 Staff will review any proposed Master Plan Amendment against the findings, criteria and thresholds identified in the Plan Maintenance section of this plan and make a recommendation to the Planning Commission. At a minimum, the Planning Commission must make each of the findings in order to recommend approval of the amendment to the Board of County Commissioners.

See Section 7.3 – Sun Valley Area Plan Findings below.

SUN 2.9 The owners of private roads or driveways are required to adequately sign them to allow for better emergency response.

If ownership of Chocolate Drive is not transferred to Washoe County and continues to be privately owned, adequate signage will be installed to promote efficient and effective emergency response.

SUN 3.1 Retain all public lands within and adjacent to the Sun Valley Area Plan boundaries. In the event that public land does become private property, that land would automatically be included in the Sun Valley SCMA.

The public land to the west of the Parcel will remain unaffected throughout the future development of the Site.

SUN 3.2 The planning of all future roadways, subdivisions or other development will maintain adequate access (vehicular and/or pedestrian) to surrounding public land. Existing and/or needed public access easements will be depicted on all development applications and on the initial right-of-way design for new roadways.

Access to the public land to the west of the Parcel will not be restricted throughout future development of this Parcel. Access to public land will be provided and coordinated throughout site planning with Washoe County. Existing trails will be utilized and could potentially be upgraded to include trailheads to provide a more inviting environment for the public to utilize these trails and open space.

SUN 3.2 The Washoe County Department of Regional Parks and Open Space will continue to work with all interested organizations and individuals to reduce illegal dumping and other resource damage to Red Hill and take appropriate steps to eliminate off-highway vehicle use on Red Hill.

Red Hill is located directly west of the Parcel. Illegal dumping has been cited multiple times on the Parcel. The buildout of this Site can more clearly identify and control access to Red Hill, which might help to reduce illegal dumping as well as off-highway vehicle use on Red Hill. Existing trail access will be limited to the north

end of the Parcel and coordination with Washoe County Open Space to create this trail access will take place through the future projects design.

SUN 4.2 Hillside development shall disturb the minimum area required for construction and conserve steep slopes in their natural state.

Appendix F – Slope Exhibit shows the slopes throughout the Parcel. The future site will make all efforts to restrict the development to within the 0-25% slope zones of the Parcel. Provisions of Washoe County Development Code Article 424 – Hillside Grading will be adhered to as required.

SUN 4.4 Structures shall be located to eliminate or minimize silhouettes against the skyline.

Structures for the future site will be limited to two-story. The skyline in the surrounding area will not be impacted.

SUN 4.4 Disturbed areas shall be finished and fill slopes will not exceed a 3:1 slope; hillside grading will establish an undulating naturalistic appearance by creating varying curvilinear contours.

All slope restraints outlined in this code and outlined in the future Geotechnical Report will be adhered to for the design of the future site.

SUN 5.2 The Washoe County Department of Regional Parks and Open Space shall support and schedule the construction of a multi-purpose trail system within the valley (see Recreational Opportunities Plan map). The ultimate goal is the connection of existing and new trails required to complete a Sun Valley Rim Trail.

A more recent plan has been created for the prospective trail system in western Sun Valley, specifically for Red Hill. Appendix G – Red Hill Conceptual Plan is from the Red Hill Master Plan prepared by Washoe County. The Red Hill Conceptual Plan shows what Washoe County has planned for the trail system in Red Hill. The plan differs from the Recreational Opportunities Plan Map from the Sun Valley Area Plan. Instead of showing a connection from public streets to the trail system on the south side of the Parcel, Appendix G instead shows the connection via a trailhead on the north side of the Parcel. Through conversations with Washoe County, they have even considered subdividing the Parcel to a smaller northern section to allow for these trail improvements and maintain uninterrupted access through the future trail system. This is a potential option for the future site that will be discussed with Washoe County through future site planning.

SUN.5.3 New trails will be designed to accommodate equestrian, pedestrian and mountain bike traffic, unless technical or severe economic hardships warrant consideration of a more limited use.

If it is determined that an upgraded trailhead is to be constructed on the Parcel, accommodations will be made for all modes of transportation mentioned in Policy SUN 5.3.

SUN.5.4 Parking will be provided at all trailheads unless technical or safety issues prevent the construction of parking facilities.

To the extent possible provided grades and other site conditions allow for it, parking will be provided for the trailhead if constructed on the Site.

SUN 7.1 Development proposals within the Sun Valley planning area will include detailed soils and geo-technical studies sufficient to:

- a. Ensure structural integrity of roads and buildings.*
- b. Provide adequate setbacks from potentially active faults.*
- c. Minimize erosion potential*

If the amendments requested in this application are approved, the Site will be able to move forward with a more formalized design. As this occurs, additional studies will take place for the Site including a geotechnical study to confirm and locate the above items. Active faults and their setback will be properly identified. Adequate erosion control measures will be utilized to minimize erosion potential during construction as well as the project is complete.

SUN.7.2 Development proposals on areas with identified geological hazards will follow the recommendations of any geo-technical study conducted pursuant to Policy SUN 7.1.

All slope restraints outlined in this code and outlined in the future Geotechnical Report will be adhered to for the design of the future site. In addition, the USGS quaternary faults identified in Appendix H will be avoided as much as possible.

SUN.10.1 Whenever applicable, all development within the Sun Valley Suburban Character Management Area and the Downtown Character Management Area will connect to a community water service.

Chocolate Drive currently contains a water main that can be utilized for the future project. The Parcel is within Sun Valley General Improvement District (SVGID) service territory and SVGID has provided written intent to serve the Parcel.

SUN 12.1 Whenever applicable, all development within the Sun Valley Suburban Character Management Area and the Downtown Character Management Area will connect to a community sewer service.

The subject Parcel is within SVGID service territory and SVGID has provided written intent to serve the Parcel. Future sewer service to the property will be determined by the SVGID capacity study that is currently being completed.

SUN.13.2 Amendments will be reviewed by the Department of Community Development against the following set of criteria and thresholds that are measures of the impact on, or progress toward, the Vision and Character Statement:

- a. A feasibility study has been conducted and paid for by the applicant, relative to municipal water, sewer and storm water, that clearly identifies the improvements likely to be required to support the intensification, and those improvements have been determined to be in substantial compliance with all applicable existing facilities and resource plans for Sun Valley by the Sun Valley General Improvement District in conjunction with the Department of Water Resources. This may be waived by the Department of Public Works for projects that are determined to have minimal impacts. The Department of Water Resources will establish and maintain the standards and methodologies for these feasibility studies.*

A formal capacity study was initiated on December 3, 2021 with the SVGID to determine water and sewer capacity for the future Project. The results of the capacity study will determine requirements for project feasibility, potential

upgrading of lines, offsite improvements, cost implications, and sizing of systems. If determined that the Project has adequate capacity for water and sewer from the SVGID, the necessary main extensions and water rights will be designed and obtained for the future Project.

- b. *A traffic analysis has been conducted that clearly identifies the impact to the adopted level of service within the Sun Valley planning area and the improvements likely to be required to maintain/achieve the adopted level of service. This may be waived by the Department of Public Works for projects that are determined to have minimal impacts. The Department of Public Works may request any information it deems necessary to make this determination.*

In addition to the above requirement of Policy SUN 13.2.b, the Washoe County Regional Transportation Commission (Washoe County RTC) has asked that potential traffic impacts to Sun Valley Boulevard be analyzed to ensure the acceptable level of service is met at the intersections. A traffic study prepared by Kimley-Horn addresses this requirement and is provided in this MPA submittal package.

- c. *If the proposed intensification will result in a drop below the established policy level of service for transportation (as established by the Regional Transportation Commission and Washoe County) within the Sun Valley planning area, the necessary improvements required to maintain the established level of service are scheduled in either the Washoe County Capital Improvements Program or Regional Transportation Commission Capital Improvements Program within three years of approval of the intensification. For impacts to regional roads, this finding may be waived by the Washoe County Planning Commission upon written request from the Regional Transportation Commission.*

Based on the Traffic Study included with this submittal package, the proposed intensification will not result in a drop below the established policy level of service for transportation at the study intersections.

- d. *If roadways impacted by the proposed intensification are currently operating below adopted levels of service, the intensification will not require infrastructure improvements beyond those articulated in Washoe County and Regional Transportation Commission transportation plans AND the necessary improvements are scheduled in either the Washoe County Capital Improvements Program or Regional Transportation Commission Capital Improvements Program within three years of approval of the intensification.*

Based on the Traffic Study included with this submittal package, the proposed intensification will not result in a drop below the established policy level of service for transportation at the study intersections.

- e. *Washoe County will work to ensure that the long range plans of facilities providers for transportation, water resources, schools and parks reflect the goals and policies of the Sun Valley Area Plan.*

The Site is in compliance with the Sun Valley Area Plan. Coordination between the applicant and various public agencies has taken place to ensure that the future project will not adversely affect facilities provided to the Site. Please refer to Agency Coordination in Section 5 of this report.

- f. *If the proposed intensification results in existing facilities exceeding design capacity and compromises the Washoe County School District's ability to implement the neighborhood*

school philosophy for elementary facilities, then there must be a current capital improvements plan or rezoning plan in place that would enable the District to absorb the additional enrollment. The Washoe County Planning Commission, upon request of the Washoe County School District Board of Trustees, may waive this finding.

A specific site design has not been completed at this time. However, with approximately 240 units projected for the future Project, it is not anticipated that the capacity of the Washoe County School District will be over enrolled by the potential new residents of this Project.

6.2. Washoe County Master Plan

The Washoe County Master Plan consists of a variety of goals and policies that pertain to certain elements of the Master Plan. The proposed MPA and RZA aim to foster, promote, or comply with the many of the goals and policies of each element. The following five sections elaborate on each of these elements.

6.2.1. Housing Element

Throughout the Housing Element of the Washoe County Master Plan, there is an obvious focus on affordable housing. There are many goals, policies, and programs to incentivize and help foster the development of affordable housing throughout Washoe County.

Goal One: Remove Regulatory Barriers to increase the availability of affordable and workforce housing for all.

The approval of the Master Plan and Regulatory Zone Amendments requested in this application would allow for the future consideration of low-income multi-family residential housing for this Parcel. Goal One of the Housing Element specifically pertains to this type of request.

Policy 1.1: Allow for more flexibility in the zoning, building, and land use regulations to enable affordable housing units to be built throughout the community.

The approval of the Master Plan and Regulatory Zone Amendments requested in this application may allow for discussion of future rezoning and enable of low-income multi-family residential housing to be built throughout the community.

Policy 1.3: Streamline and expedite processing for residential developments.

If the proposed MPA and RZA are approved and the Site is allowed to move forward into design, Washoe County may consider this policy when reviewing for future permitting.

Policy 3.5: Promote development of affordable housing near services, transportation routes, schools, jobs, and child care by establishing mixed-use districts and higher density areas.

There are currently some utility services along Chocolate Drive that could be utilized for the Site. There nearest school is Lois Allen Elementary School and it is less than half a mile from the southern end of the Parcel. Also, nearby Washoe County RTC routes are within a half mile of the Parcel along Sun Valley Boulevard. There are several local businesses for jobs also along Sun Valley Boulevard.

Policy 3.6: Promote mixed-use development that includes housing units affordable to lower income households.

The low-income affordable multi-family housing that would be provided with this project (if granted approval) would be a direct implementation of this policy.

6.2.2. Conservation Element

The following Policies were found to be applicable to the proposed MPA and RZA:

Policy C.5.2: Slope management strategies for slopes between 15 and 30 percent will ensure that:

- a. *Development on such slopes incorporates on-site and off-site mitigation measures for impacts to habitat and water quality, and for fiscal effects associated with higher-than-normal costs of infrastructure, public safety facilities, and public safety services;*

The Phase 1 ESA has indicated that no habitat or water quality impacts on or off-site are anticipated for future development. Public infrastructure to serve Site is not anticipated to be higher-than-normal, however private infrastructure and some public infrastructure will be funded by the owner.

- b. *Recharge areas are protected; and*

Per the Phase I ESA included with this submittal, there are no recharge areas on the Parcel.

- c. *Activities comply with the terms of National Pollutant Discharge Elimination System (NPDES) permits.*

All applicable/necessary permits will be obtained as required for the future buildout of the Site.

Policy C.10.2: Prior to the approval of a development proposal, the Washoe County Department of Community Development will require geologic reports that identify potential hazards. In areas where geologic hazards are identified, extensive soil, hydrology, and engineering studies must clearly demonstrate that the proposed development will not result in avoidable public costs and will not pose significant risk of earthquake, landslide, erosion, sedimentation and drainage problems.

Appropriate geological and hydrology studies will be performed at the time of future site planning. The future site will do as much as feasible to avoid public costs to geologic and drainage problems. Current hazards include an active fault which will be mitigated by ensuring appropriate building setbacks.

Policy C.13.2: Promote the conservation and enhancement of fishery and wildlife resources; areas of high wildlife value; areas necessary for the protection and perpetuation of rare, endangered and threatened species; and areas important for scientific study.

The Phase I ESA included in this submittal identified that there are no critical habitats, refuges, or fish hatcheries within the Parcel and there are no endangered species that would be affected by the development of the Site.

Policy C.13.3: Ensure that all existing natural streams, playas and other water bodies are recognized for their wildlife habitat, floodway, water quality enhancement and scenic value.

There is an intermittent stream in a general west-east direction on the north portion of the Parcel which could potentially contain jurisdictional wetlands including Waters of the U.S. No other water conveyances, playas, or other water bodies exist on the Parcel. All future development of the Site will not interfere with the intermittent stream.

Policy C.20.1: Restrict development in floodplains that would constrict or otherwise result in higher floodwater levels or peak flows, or impact to floodplain functions.

The Parcel lies entirely in Zone X per FEMA Flood Map 32031C3033G dated March 16, 2009. There will be no affect from this development on existing floodplains.

6.2.3. Population Element

Goal 1 and Goal 2 of the Population Element are not applicable to this proposed MPA and RZA. Goal 2 and Goal 3 were found to be applicable as follows:

Goal Three: Plan for a balanced development pattern that includes employment and housing opportunities, public services and open spaces.

Low-income apartment complexes allow for more housing and employment growth. The buildout of this site will not adversely affect open space allocation in Sun Valley.

Goal Four: Coordinate population growth with the availability of water, sanitary sewer, streets and highways, and other public facilities and services.

The Sun Valley General Improvement District has determined the availability for water and sanitary sewer to the Site. Nearby services to streets and highways such as the elementary school, local businesses, and public transportation along Sun Valley Blvd will promote population growth.

6.2.4. Land Use and Transportation Element

The following Policies were found to be applicable to the proposed MPA and RZA:

LUT.3.1: Require timely, orderly, and fiscally responsible growth that is targeted based on the Regional Land Designations outlined in Table 3.1 and Map 2 of the Truckee Meadows Regional Plan.

The proposed amendment for the Truckee Meadows Regional Plan Tier would change this Parcel from Tier 3 to Tier 1. This would allow for multi-family residential development to be considered on the Parcel and would thereby comply with this Policy. The subject Parcel is adjacent to existing Tier 1 land.

Goal Four: Land use patterns allow for a range of housing choices and interconnected streets.

A multi-family residential development on this parcel will add to the existing housing choices in Sun Valley. Nearby housing consists of suburban residential. The streets in the adjacent neighborhood provide multiple points of access to Sun Valley Blvd.

LUT.4.1 Maintain a balanced distribution of land use patterns to:

- a. *Provide opportunities for a variety of land uses, facilities and services that serve present and future population;*

Amending this Parcel to be Urban Residential designation and MDU zoning would help diversify the land uses throughout Sun Valley by providing an opportunity for multi-family residential development which Sun Valley does not currently provide at a proportionate scale to other land uses.

- b. *Promote integrated communities with opportunities for employment, housing, schools, park civic facilities, and services essential to the daily life of the residents; and*

Multi-family residential development on this Parcel would provide residents with a housing opportunity within half of mile of schools, open space trails, businesses, and public transportation.

- c. *Allow housing opportunities for a broad socio-economic population.*

The Sun Valley area currently has limited housing opportunities for low-income residents. If the MPA and RZA requested in this application are approved, it allows for the potential of low-income affordable apartments on this Parcel which would help satisfy this Policy for Sun Valley.

LUT.4.3: Encourage suburban developments to provide a mix of residential densities and housing types in close proximity to retail/commercial.

There currently is not a mix of densities/housing types in this suburban area of Sun Valley. Amending the designation and zoning of this Parcel would help begin the process of developing multi-family residential on the Parcel, which would help to diversify residential densities and housing types within half a mile of the Sun Valley Blvd corridor which contains a variety of retail/commercial development.

Goal Ten: The public has access to open space resources.

The public will be able to maintain access to Red Hill and existing trails to the west of the Parcel even after the future multi-family development is built.

LUT.10.3 Ensure that development proposals provide adequate public access to adjacent public lands. The access should be designed so it does not restrict development on adjacent private lands.

The existing trail at the north end of the Parcel will allow for continued access to the open space to the west of the Parcel. A portion of the Parcel could be dedicated to Washoe County to enable them to upgrade this existing trail if desired.

LUT.14.6 Where appropriate, new trails should be incorporated into and provided by new development and linked to established trails.

Appendix G shows Washoe County’s conceptual plan for the trails in Red Hill just west of the Parcel. The Red Hill Conceptual Plan shows the interconnection of trails through the Parcel via the trailhead at the north end of the Parcel. Connectivity to the established trail system can be maintained as required.

LUT.17.3 A variety of dwelling units such as houses, townhouses, and apartments are all encouraged.

Allowing for the potential of a multi-family residential development for this Parcel will help enforce this Policy.

LUT.19.1: Certain development practices provide broad benefits to the local community and to the public at large. In order to realize these benefits, residential units in addition to the base density may be earned by committing to one or more of the following development practices:

- f. Affordable housing: Housing affordable to homebuyers or renters earning between 80% and 120% of Area Median Income.*

If approved, this project would provide affordable housing to homebuyers or renters that are within the income range of this Policy. The Applicant's plan for the proposed development is for all units to be housing for renters earning 60% of the Area Median Income or lower. More information on the Affordable Housing aspect of the proposed amendments can be found in Section 4.4 – Affordable Housing Process.

LUT.25.1 Ensure that development proposals are in conformance with appropriate Master Plan policies and the relevant Area Plan policies.

As described in this report, the proposed amendment is in conformance with all appropriate & relevant Washoe County Master Plan and Sun Valley Area Plan policies.

6.2.5. Public Services and Facilities Element

The following Policies were found to be applicable to the proposed MPA and RZA:

PSF.0.1 Comply with all applicable 2019 Truckee Meadows Regional Plan policies.

See Section 6.4.2 below for conformance with applicable 2019 TMRP policies.

PSF.1.9.1 Water meters will be required on all new residential, commercial and industrial construction, to the extent allowed by law.

Water meters will be installed as required for the potential future multi-family residential development.

PSF.1.13.4 Areas planned for urban or suburban development (residential densities of one or more units per acre or comparable non-residential development) will be served by a community water supply system consistent with adopted regional policies and the Planning Area Minimum Service Standards in the Land Use and Transportation Element of the Washoe County Master Plan. In accordance with adopted regional policies and existing County ordinances, all new systems and facilities shall be dedicated to Washoe County.

The Site will be served by the SVGID. System and facility dedications will be made as required.

PSF.1.13.8 The cost of water service to serve new development should be paid by the new development and the cost of service shall include the cost of extending service lines or facilities to the site.

An existing water line and fire hydrants are located along Chocolate Drive on the Parcel. A study is being performed by SVGID to determine water system capacity. Once any offsite infrastructure requirements and capacity is determined for the site, the owner will fund costs of upgrades if required.

PSF.2.2.1 All planned urban and suburban development (with residential densities of one or more units per acre) shall be included in the service area of a centralized/community sewage treatment facility. Sewage treatment facility service areas shall not overlap. Centralized/community sewage treatment facilities shall not be provided to areas planned for rural or rural reserve development (density less than one unit per acre).

Wastewater from SVGID is treated by the Truckee Meadows Water Reclamation Facility (TMWRF). The Site lies within the SVGID service area, therefore wastewater from any future development will be treated by TMWRF.

PSF.2.2.6 The Washoe County Department of Community Development, in conjunction with the Washoe County Utility Services Division, will review all projects to ensure that sewer costs directly attributable to new development are paid for by the new development. Costs of service shall include the cost of extending service lines or facilities to the site.

A study is being performed by SVGID to determine sewer system capacity. Once any offsite infrastructure requirements and capacity is determined for the site, the owner will fund costs of upgrades if required.

PSF.3.8 Control stormwater runoff from new developments to:

- A. Prevent siltation and pollution of lakes, rivers and streams.*
- B. Prevent erosion, flooding and other surface water damage.*
- C. Prevent increases in downstream peak flows.*
- D. Preserve and enhance the region's water resources.*

All stormwater mitigation measures will be followed for the future Site as required by Washoe County and any other reviewing agency. If the proposed MPA and RZA amendments are approved, the Site will undergo a future formal review of design prior to issuance of any required permits. At this time, stormwater mitigation facility design can be reviewed for compliance with applicable codes and regulations.

PSF.4.6 Promote the installation of necessary water systems and pre-suppression fire (automatic detection and suppression) equipment.

Any improvements related to fire-suppression infrastructure required by the fire department or Washoe County will be incorporated into the future design of the Site.

PSF.8.8 Require the dedication or reservation of park sites and trail easements during development review when these are considered appropriate by the Washoe County Department of Parks and Recreation, and when consistent with adopted plans for the area.

The applicant is prepared to dedicate portions of the Parcel as required to maintain the existing trail network and to conform with the vision of the Red Hill Conceptual Plan and corresponding Red Hill Master Plan prepared by Washoe County.

6.3. Washoe County Development Code Article 218 – Sun Valley Area

Article 218 of the Washoe County Development Code outlines regulations and requirements specific to the Sun Valley Area. There are no requirements nor area plan modifiers that would prevent the execution of the proposed Master Plan Amendment and Regulatory Zone Amendment. The project meets all requirements of this Article such as height restrictions, lot standards, architecture, etc.

6.4. Truckee Meadows Regional Plan

Master Plan Amendment applications in Washoe County are required to complete a review by the Truckee Meadows Regional Planning Agency. This project advances many of the goals and policies of the 2019 Truckee Meadows Regional Plan (TMRP). Below are some of the ways in which this amendment will comply with and promote the TMRP:

6.4.1. Goals

Goal 1 – Quality of Regional Living

“Provide guidance for development patterns that provide households and businesses a quality environment for a diversity of types of urban life, and with efficient infrastructure to support that quality.”

Where Sun Valley currently lacks in urban life diversity, a low-income multi-family residential development could serve to improve on this. Diversifying housing opportunities will provide new options for existing and prospective residents to consider when looking for somewhere to live.

Goal 3 – Economy

“Provide land and infrastructure efficiently to support the growth of business activity and jobs, and the income and revenue they generate.”

A large factor of the growing housing crisis is the increase in housing costs without a proportionate increase in residents’ income levels. This project will assist this goal by setting forth the initiative to provide land and infrastructure that supports the income generated by the businesses throughout the TMSA. Providing housing that people can afford to live in while working jobs that help support the economy is just one way to accomplish this.

Goal 6 – Engagement and Decision Making

“Provide information that is understandable to the public in processes that are open, transparent, and inclusive; explore new models for communication and cooperation among public agencies and private and non-profit partners.”

The process of approval for this MPA and RZA includes public outreach requirements. Notices will be sent for a public hearing which will allow for the residents surrounding the Parcel to have their input regarding the MPA and RPA process and the potential future development. Their requests will be required to be taken into consideration for this amendment to proceed. This project also aims to coordinate with the appropriate public agencies to generate support and determine any public needs for the project.

6.4.2. Policies

RF 5 – Regional Land Designation Amendments:

“Local government master plans must conform to the densities established by the Regional Land Designation table applicable to the site as described in RF3, unless the land already contains a land use that allows for different densities which were established prior to the adoption of this Regional Plan (see policy RF4). When considering a Regional Land Designation Amendment, TMRPA will review the request as a whole, including any associated master plan amendments, projects of regional significance, and any other requests. If a different density than what is allowed is desired, a Regional Plan Amendment to include the site in the appropriate Regional Land Designation is required. If a Regional Land Designation is requested that is not directly next in the priority hierarchy, all criteria of any higher prioritized Regional Land Designations will be used in analysis. If a less prioritized Regional Land Designation is requested, TMRPA will review the request on a case-by-case basis in which any negative consequences will be assessed. When considering amendments that move land to a more prioritized Regional Land Designation, the following criteria will be utilized:

2. For request seeking inclusion into Tier 1 Land:

a. Proximity to Tier 1 Land

The Parcel is directly adjacent to Tier 1 Land.

b. Land use diversity that supports neighborhood amenities, walkability, and a greater range of housing options (e.g., mixed use development, neighborhood-scale commercial services, higher density housing)

Multi-Family housing within a surrounding suburban residential neighborhood will help increase land use diversity.

c. Potential for connectivity to existing or planned multimodal transportation opportunities (e.g., sidewalks, transit, complete streets, bike lanes, multi-use paths)

Appendix G shows Washoe County’s plan for trail connectivity near the Parcel. Part of this plan includes a trail connection across the Parcel to Red Hill at the north end of the Parcel. The potential future development on this Parcel will not interfere with this plan. Also, nearby existing public transportation services along Sun Valley Blvd can be accessed from the Site.

d. An evaluation of the availability and adequacy of public facilities and services”

Public utilities exist along Chocolate Drive and can potentially be used for the site. All public services for the Site are listed under question 13 in Appendix C – Master Plan Amendment Application.

PF 1 – List of Facilities and Service Standards

“The standards in Table 3.2 will be reviewed for master plan amendments and for projects of regional significance requests.”

All service standards shown in Table 3.2 of the 2019 TMRP are either currently being met or will be met prior to approval of the potential future multi-family project.

NR 3 – Development Constraints Area

“The Regional Plan defines the Development Constraints Area (DCA) as an overlay upon the Truckee Meadows Service Areas and the Rural Area (see Map 4). An amendment to the DCA and Map 4 constitutes a Regional Plan amendment...”

There are small portions of the Parcel along the western property line that are within the Development Constraints Area. The western edge of the Parcel contains some of the steeper slopes that exist on the Parcel, and therefore will be avoided in terms of developing the Site. If the areas within the Development Constraints Area are utilized for any future development on the Site, the provisions from this Policy NR 3 of the 2019 TMRP will be followed accordingly.

RC 10 – Regional Plan Amendment Findings

See Section 7.4 – Truckee Meadows Regional Plan Findings below for responses to findings required by Policy RC 10.

6.4.3. Housing Crisis

Throughout the TMRP, the current housing crisis is mentioned frequently with relation to the tightening of the region’s housing market combined with low vacancy rates and rising costs. The result of this combination of factors is that housing is becoming more difficult to access. Modifying this Parcel to be within Tier 1 would allow for the UR and MDU designations and would subsequently allow for the development of a low-income affordable multi-family residential project (pending acquisition of additional permits). Providing low-income affordable housing can help with the cost component of the housing crisis, while increasing housing density can help significantly with the overall availability of housing throughout Washoe County.

7. REQUEST FINDINGS

Article 820 of the Washoe County Development Code establishes legal findings that must be made by the Planning Commission and Board of County Commissioners in order to approve Master Plan Amendment and Regulatory Zone Amendment requests. These findings are listed and addressed below for both amendment requests.

7.1. Master Plan Amendment

Finding 1 – Consistency with Master Plan

“The proposed amendment is in substantial compliance with the policies and action programs of the Master Plan.”

The requested Urban Residential designation will allow for the establishment of Medium Density Urban (MDU) zoning, therefore increasing density allowed for the Parcel. As described in the previous Planning Policy Analysis section, the increase in density can serve to diversify the housing options within Sun Valley which current designations do not fully allow for. This can serve to implement the policies and action programs of the Master Plan.

Finding 2 – Compatible Land Uses

“The proposed amendment will provide for land uses compatible with (existing or planned) adjacent land uses, and will not adversely impact the public health, safety or welfare.”

Adjacent land uses include residential uses and open space. The future multi-family use will complement these existing uses and the required improvements for public trail access, low-income housing, and proposed infrastructure will benefit the surrounding community.

Finding 3 – Response to Change Conditions

“The proposed amendment responds to changed conditions or further studies that have occurred since the plan was adopted by the Board of County Commissioners, and the requested amendment represents a more desirable utilization of land.”

The Sun Valley Area currently has limited diversity in residential zoning types. The proposed MPA and RZA will allow for added diversity, giving existing and prospective residents of Sun Valley additional housing opportunities to choose from.

Finding 4 – Availability of Facilities

“There are or are planned to be adequate transportation, recreation, utility, and other facilities to accommodate the uses and densities permitted by the proposed Master Plan designation.”

The Parcel is within the service territory of the SVGID. A capacity study is currently being performed by SVGID. The results of the study will indicate the availability of water and sewer utility service for the Site. Utility infrastructure upgrades will be implemented as needed to satisfy the demands of the future Project. The surrounding transportation network was analyzed in a traffic study prepared by Kimley-Horn and the required improvements will be implemented prior to issuance of permits. The adjacent Washoe County open space parcels will give the public and residents of the future Project access to public trails.

Finding 5 – Desired Pattern of Growth

“The proposed amendment will promote the desired pattern for the orderly physical growth of the County and guides development of the County based on the projected population growth with the least amount of natural resource impairment and the efficient expenditure of funds for public services.”

The Parcel is identified as “Most Suitable” in the Sun Valley Area Plan Development Suitability map. The housing needs within Sun Valley are growing with the increase in population, and higher density housing opportunities are one way to help match this increase in demand. Natural resources are not anticipated to be impaired by the future Project.

Finding 6 – Effect on a Military Installation

“The proposed amendment will not affect the location, purpose and mission of the military installation.”

This finding is not applicable for the proposed amendments.

7.2. Regulatory Zone Amendment

Finding 1 – Consistency with Master Plan

“The proposed amendment is in substantial compliance with the policies and action programs of the Master Plan.”

As detailed in the Error! Reference source not found. section of this report, the requested Regulatory Zone Amendment serves to implement the goals and policies of the Washoe County Master Plan and the Sun Valley Area Plan.

Finding 2 – Compatible Land Uses

“The proposed amendment will provide for land uses compatible with (existing or planned) adjacent land uses, and will not adversely impact the public health, safety or welfare.”

If approved, the zoning of this Parcel to MDU would allow for future consideration of a multi-family residential project through an Administrative Review process with Washoe County. At that time, project specifics can be evaluated which may prompt additional conditions to be met or design changes to be made prior to approval. From a land use perspective, a low-density multi-family residential use is appropriate with the surrounding residential and open space land uses.

Finding 3 – Response to Change Conditions; more desirable use

“The proposed amendment responds to changed conditions or further studies that have occurred since the plan was adopted by the Board of County Commissioners, and the requested amendment represents a more desirable utilization of land.”

This Regulatory Zone Amendment will allow for consideration of multi-family residential development on this Parcel which will help to diversify the housing opportunities in Sun Valley. This amendment will also promote smart growth planning principles as well as aim to implement a variety of policies within the Washoe County Master Plan.

Finding 4 – Availability of Facilities

“There are or are planned to be adequate transportation, recreation, utility, and other facilities to accommodate the uses and densities permitted by the proposed Master Plan designation.”

The Parcel is within the service territory of the SVGID. A capacity study is currently being performed by SVGID. The results of the study will indicate the availability of water and sewer utility service for the Site. Utility infrastructure upgrades will be implemented as needed to satisfy the demands of the future Project. The surrounding transportation network was analyzed in a traffic study prepared by Kimley-Horn and the required improvements will be implemented prior to issuance of permits. The adjacent Washoe County open space parcels will give the public and residents of the future Project access to public trails.

Finding 5 – No Adverse Effects

“The proposed amendment will not adversely effect the implementation of the policies and action programs of the Washoe County Master Plan.”

The proposed amendment will not adversely affect the implementation of the policies and action programs of the Washoe County Master Plan. As explained in the Error! Reference source not found. section of this report, the amendment will help foster many of the ideas set forth in the Washoe County Master Plan as well as the Sun Valley Area Plan.

Finding 6 – Desired Pattern of Growth

“The proposed amendment will promote the desired pattern for the orderly physical growth of the County and guides development of the County based on the projected population growth with the least amount of natural resource impairment and the efficient expenditure of funds for public services.”

The Parcel is identified as “Most Suitable” in the Sun Valley Area Plan Development Suitability map. The housing needs within Sun Valley are growing with the increase in population, and higher density housing opportunities are one way to help match this increase in demand. Natural resources are not anticipated to be impaired by the future Project.

Finding 7 – Effect on a Military Installation

“The proposed amendment will not affect the location, purpose and mission of the military installation.”

This finding is not applicable for the proposed amendments.

7.3. Sun Valley Area Plan Findings

The Plan Maintenance section of the Sun Valley Area Plan identifies findings that the Washoe County Planning Commission must make in order to recommend the approval of a Master Plan Amendment. Policy SUN 13.1 of the Sun Valley Area Plan lists these findings. Responses to each required finding are below:

“The amendment will further implement and preserve the Vision and Character Statement.”

The Vision Statement emphasizes preserving public lands and upgrading the quality of the built environment. The adjacent Washoe County open space will not be affected by the development of this parcel. The surrounding infrastructure including streets and utilities will be upgraded as needed to facilitate the development of this parcel.

The Character Statement states that one of the important factors of a sustainable Sun Valley is affordable housing. If the amendments in this report are approved, the Parcel would be allowed for future consideration of low-income affordable housing. The community will benefit from this with the expansion of affordable housing opportunities in Sun Valley. Another focus of the Character Statement is providing for a mixed range of residential opportunities. At this time, Sun Valley consists predominantly of single-family residential dwellings with few apartment complexes.

“The amendment conforms to all applicable policies of the Sun Valley Area Plan and the Washoe County Master Plan.”

There are no applicable policies of the Sun Valley Area Plan that this amendment does not conform to. If the zoning is changed and the Suburban Character Management Area is updated to allow for MDU, this project will be in conformance with both the Sun Valley Area Plan and the Washoe County Master Plan.

“The amendment will not conflict with the public’s health, safety or welfare.”

The public’s health, safety and welfare will not be adversely affected by the implementation of this amendment to the Master Plan or by the potential future development of multi-family residential dwellings on this parcel. The welfare of Sun Valley will benefit from low-income affordable housing.

7.4. Truckee Meadows Regional Plan Findings

Per Policy RC 10 of the 2019 TMRP, the following criteria shall be considered for any proposed amendment to the Regional Plan:

1. Regional capacities and growth projections

The Parcel lies within the SVGID service territory. The existing transportation network was analyzed via a traffic study prepared by Kimley-Horn, which has been included with this MPA submittal package. Coordination with the Washoe County

Regional Transportation Commission is being performed to determine the necessary upgrades to the transportation network to satisfy the needs of the future Site. The requirements for changing the existing TMRPA tier to Tier 1 land are shown to be satisfied in Section 6.4.2 of this report. Amending this Parcel from Tier 3 to Tier 1 will not adversely impact the capacities and the growth projections for the region and it does not constitute denial of the proposed amendment.

2. *Existing and planned development*

The Parcel is currently vacant but is identified as “Most Suitable” in the Sun Valley Area Plan Development Suitability map. The future Project development consists of approximately 240 low-income affordable multi-family housing. There is proposed development that is planned for nearby parcels by Washoe County Open Space consisting of a trail system shown in Appendix G – Red Hill Conceptual Plan. The Site will not interfere with the vision of Red Hill Conceptual Plan and corresponding Red Hill Master Plan prepared by Washoe County.

3. *Existing and planned public facility and service availability, timing, adequacy, and fiscal impacts.*

Utility service is available for the Site per conversations with SVGID. A capacity study is being performed by SVGID to determine water and sewer system capacity and any offsite improvements and costs that would be necessary to satisfy the demands of the future Site. The fiscal impacts of potential required improvements will be the responsibility of the applicant.

4. *Natural resources*

The future Site will not impact natural resources on the Parcel. As shown in Section 6.4.2 of this report, all policies and goals from the 2019 TMRP relating to natural resources that are applicable to the Site will be satisfied with the proposed amendment.

5. *Intergovernmental impacts*

The Site is not anticipated to generate any intergovernmental impacts. The applicant is prepared to respond to any intergovernmental impacts related to the Site and to the amendment proposed in this report.

6. *Vision, goals, and policies of the Regional Plan*

As described in Section 6.4 – Truckee Meadows Regional Plan, all applicable components of the Regional Plan are met with the amendment proposed in this report.

7. *Health and welfare of the community*

The health and welfare of the community has the potential to be improved through the future development of the Site. There will potentially be public infrastructure improvements including utility upgrades, creation of public trail access, and more

diversity in housing. Benefits of these improvements will be shared by members of the local community.

APPENDIX A
WASHOE COUNTY DEVELOPMENT APPLICATION

Washoe County Development Application

Your entire application is a public record. If you have a concern about releasing personal information, please contact Planning and Building staff at 775.328.6100.

Project Information		Staff Assigned Case No.: _____	
Project Name: 6400 Chocolate Drive			
Project Description: The project is a proposed multi-family construction consisting of twenty 2-story apartment buildings (about 240 units) with a clubhouse and swimming pool, 240 covered parking spaces, mail kiosk, playground, and recreational amenities. The project plans to connect to W 5th Ave, W 4th Ave, and Brownlee Ln.			
Project Address: 0 Gepford Pkwy, Washoe County, NV			
Project Area (acres or square feet): 45.51			
Project Location (with point of reference to major cross streets AND area locator): The parcel is located in southwest Sun Valley, west of Sun Valley Blvd, and on the western edge of Chocolate Drive between West 2nd Ave and West 5th Ave.			
Assessor's Parcel No.(s):	Parcel Acreage:	Assessor's Parcel No.(s):	Parcel Acreage:
502-250-09	45.51		
Indicate any previous Washoe County approvals associated with this application: Case No.(s).			
Applicant Information (attach additional sheets if necessary)			
Property Owner:		Professional Consultant:	
Name: Chocolate Group, LLC		Name: Kimley-Horn and Associates, Inc	
Address: 3860 GS Richards Blvd		Address: 7900 Rancharrah Parkway, Suite 100	
Carson City, NV Zip: 89703		Reno, NV Zip: 89511	
Phone: 775-885-8847 Fax:		Phone: 775-200-1978 Fax:	
Email: randy@kbcallc.com		Email: chris.waechter@kimley-horn.com	
Cell: 775-560-2683 Other:		Cell: 805-850-9102 Other:	
Contact Person: Randal Kuckenmeister		Contact Person: Chris Waechter	
Applicant/Developer:		Other Persons to be Contacted:	
Name: Pedcor Investments, LLC		Name:	
Address: 770 3rd Ave SW		Address:	
Carmel, IN Zip: 46032			
Phone: 317-705-7970 Fax:		Phone: Fax:	
Email: rrodgers@pedcor.net		Email:	
Cell: 317-460-4426 Other:		Cell: Other:	
Contact Person: Ryan Rodgers		Contact Person:	
For Office Use Only			
Date Received: Initial:		Planning Area:	
County Commission District:		Master Plan Designation(s):	
CAB(s):		Regulatory Zoning(s):	

APPENDIX B
OWNER AFFIDAVITS

Property Owner Affidavit

Applicant Name: Chocolate Group, LLC

The receipt of this application at the time of submittal does not guarantee the application complies with all requirements of the Washoe County Development Code, the Washoe County Master Plan or the applicable area plan, the applicable regulatory zoning, or that the application is deemed complete and will be processed.

STATE OF NEVADA)
)
COUNTY OF WASHOE)

I, Aandal S. Kuckenmeister
(please print name)

being duly sworn, depose and say that I am the owner* of the property or properties involved in this application as listed below and that the foregoing statements and answers herein contained and the information herewith submitted are in all respects complete, true, and correct to the best of my knowledge and belief. I understand that no assurance or guarantee can be given by members of Planning and Building.

(A separate Affidavit must be provided by each property owner named in the title report.)

Assessor Parcel Number(s): 502-250-09

Printed Name Aandal S. Kuckenmeister

Signed [Signature]

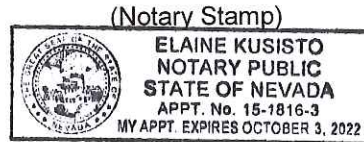
Address 3860 Gs Richards Blvd

Carson City, NV 89703

Subscribed and sworn to before me this
2nd day of December, 2021.

Elaine Kusisto
Notary Public in and for said county and state

My commission expires: 10-3-2022



*Owner refers to the following: (Please mark appropriate box.)

- Owner
- Corporate Officer/Partner (Provide copy of record document indicating authority to sign.)
- Power of Attorney (Provide copy of Power of Attorney.)
- Owner Agent (Provide notarized letter from property owner giving legal authority to agent.)
- Property Agent (Provide copy of record document indicating authority to sign.)
- Letter from Government Agency with Stewardship

Property Owner Affidavit

Applicant Name: Chocolate Group, LLC

The receipt of this application at the time of submittal does not guarantee the application complies with all requirements of the Washoe County Development Code, the Washoe County Master Plan or the applicable area plan, the applicable regulatory zoning, or that the application is deemed complete and will be processed.

STATE OF NEVADA)
)
COUNTY OF WASHOE)

I, Aandal S. Kuckenmeister
(please print name)

being duly sworn, depose and say that I am the owner* of the property or properties involved in this application as listed below and that the foregoing statements and answers herein contained and the information herewith submitted are in all respects complete, true, and correct to the best of my knowledge and belief. I understand that no assurance or guarantee can be given by members of Planning and Building.

(A separate Affidavit must be provided by each property owner named in the title report.)

Assessor Parcel Number(s): 502-250-09

Printed Name Aandal S. Kuckenmeister

Signed [Signature]

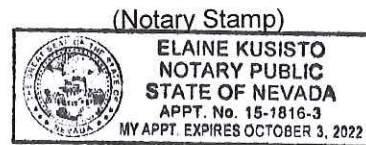
Address 3860 Gs Richards Blvd

Carson City, NV 89703

Subscribed and sworn to before me this
2nd day of December, 2021.

Elaine Kusisto
Notary Public in and for said county and state

My commission expires: 10-3-2022



*Owner refers to the following: (Please mark appropriate box.)

- Owner
- Corporate Officer/Partner (Provide copy of record document indicating authority to sign.)
- Power of Attorney (Provide copy of Power of Attorney.)
- Owner Agent (Provide notarized letter from property owner giving legal authority to agent.)
- Property Agent (Provide copy of record document indicating authority to sign.)
- Letter from Government Agency with Stewardship

APPENDIX C
MASTER PLAN AMENDMENT APPLICATION

Community Services Department
Planning and Building
MASTER PLAN AMENDMENT
APPLICATION



Community Services Department
Planning and Building
1001 E. Ninth St., Bldg. A
Reno, NV 89512-2845

Telephone: 775.328.6100

Master Plan Amendment Supplemental Information

(All required information may be separately attached)

The Washoe County Master Plan describes how the physical character of the County exists today and is planned for the future. The plan is adopted by the community and contains information, policies and a series of land use maps. The Master Plan provides the essential framework for creating a healthy community system and helps guide decisions about growth and development in the County. The following are general types of requests the County receives to amend the Master Plan. Please identify which type of amendment you are requesting:

<input checked="" type="checkbox"/> A request to change a master plan designation(s) from the adopted master plan and/or area plan maps
<input type="checkbox"/> A request to add, amend, modify or delete any of the adopted policies found in the elements of the Master Plan
<input type="checkbox"/> A request to add, amend, modify or delete any of the adopted policies in the area plans and/or specific language found in the area plans
<input type="checkbox"/> Other (please identify):

Please complete this questionnaire to ensure consistent review of your request to amend the Washoe County Master Plan. Staff will review the application to determine if the amendment request is in conformance with the policies and language within the elements and area plans of the Master Plan or if the information provided supports a change to the plan. Please provide an explanation to all questions; attach additional sheets if necessary.

1. What is the Master Plan amendment being requested at this time?

It is requested to re-designate parcel from Suburban Residential to Urban Residential. Refer to attached report.
--

2. What conditions have changed and/or new studies have occurred since the adoption of the Washoe County Master Plan that supports the need for the amendment request?

The project will provide low-income affordable multi-family housing consistent with the Vision and Character Statement in the Sun Valley Area Plan.

3. Please provide the following specific information:

a. What is the location (address or distance and direction from the nearest intersection of the subject property)? Attach, for map amendments, a legal description. For all other amendments, what is the area subject to the request?

The parcel is located at 0 W Gepford Pkwy in southwest Sun Valley, west of Sun Valley Blvd, and on the western edge of Chocolate Drive between West 2nd Ave and West 5th Ave.

b. Please list the following proposed changes (attach additional sheet if necessary):

Assessor's Parcel Number	Master Plan Designation	Existing Acres	Proposed Master Plan Designation	Proposed Acres
502-250-09	Suburban Residential	45.51	Urban Residential	45.51

c. What are the adopted land use designations of adjacent parcels?

North	Suburban Residential
South	Open Space
East	Suburban Residential
West	Open Space

4. Describe the existing conditions and uses located at the site or in the vicinity (i.e. vacant land, roadways, buildings, etc.).

The site is currently vacant with some existing utilities and dirt roadways. Refer to report for detailed description.

5. Describe the natural resources associated with the site under consideration. Your description should include resource characteristics such as water bodies, vegetation, topography, minerals, soils and wildlife habitat.

A Phase I ESA was prepared for the project and a summary is included in the attached report.

6. Describe whether any of the following natural resources or systems are related to the proposed amendment:

a. Is property located in the 100-year floodplain? (If yes, attach documentation of the extent of the floodplain and any proposed floodplain map revisions in compliance with Washoe County Development Code, Article 416, Flood Hazards, and consultation with the Washoe County Engineering & Capital Projects Division.)

<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
------------------------------	--

Explanation:

Zone X per FEMA Flood Map 32031C3033G dated March 16, 2009

b. Does property contain wetlands? (If yes, attach a preliminary delineation map and describe the impact the proposal will have on the wetlands. Impacts to the wetlands may require a permit issued from the U.S. Army Corps of Engineers.)

<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
---	-----------------------------

Explanation:

There are jurisdictional wetlands at the north end of the parcel as shown in the Phase 1 ESA. Refer to report for detailed description.

- c. Does the property contain slopes or hillsides in excess of 15 percent and/or significant ridgelines? (If yes, submit the slope analysis requirements as contained in Article 424, Hillside Development of the Washoe County Development Code.)

<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
---	-----------------------------

Explanation:

Approximately 43% of the site is over 15% in slope.

- d. Does the property contain geologic hazards such as active faults, hillside, or mountainous areas? Is it subject to avalanches, landslides, or flash floods? Near a stream or riparian area such as the Truckee River, and/or an area of groundwater recharge? If the answer is yes to any of the above, check yes and provide an explanation.

<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
---	-----------------------------

Explanation:

There are mountainous areas to the west and there is an active fault on the west side of the parcel per the USGS Quaternary fault map.

- e. Does the property contain prime farmland, within a wildfire hazard area, geothermal or mining area, and/or wildlife mitigation route? If the answer is yes to any of the above, check yes and provide an explanation.

<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
---	-----------------------------

Explanation:

The site lies within the "Moderate" fire risk rating zone per Washoe County Regional Mapping System.

- 7. Are any archaeological, historic, cultural, or scenic resources in the vicinity or associated with the proposed amendment? If the answer is yes to any of the above, check yes and provide an explanation.

<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
------------------------------	--

Explanation:

- 8. Do you own sufficient water rights to accommodate the proposed amendment? (Amendment requests in some groundwater hydrographic basins [e.g. Cold Springs, Warm Springs, etc.] require proof of water rights be submitted with applications. Provide copies of all water rights documents, including chain of title to the original water right holder.)

<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
---	-----------------------------

If yes, please identify the following quantities and documentation numbers relative to the water rights. Please attach a copy(s) of the water rights title (as filed with the State Engineer in the Division of Water Resources of the Department of Conservation and Natural Resources).

a. Permit #		acre-feet per year	
b. Certificate #		acre-feet per year	
c. Surface Claim #		acre-feet per year	
d. Other #		acre-feet per year	

- a. If the proposed amendment involves an intensification of land use, please identify how sufficient water rights will be available to serve the additional development.

Sun Valley General Improvement District has verbally indicated the site can be served for the intended use. A capacity study is currently being performed by SVGID.

9. Please describe the source and timing of the water facilities necessary to serve the amendment.

- a. System Type:

<input type="checkbox"/> Individual wells			
<input checked="" type="checkbox"/> Private water	Provider:	Sun Valley General Improvement District	
<input checked="" type="checkbox"/> Public water	Provider:	Sun Valley General Improvement District	

- b. Available:

<input checked="" type="checkbox"/> Now	<input type="checkbox"/> 1-3 years	<input type="checkbox"/> 3-5 years	<input type="checkbox"/> 5+ years
---	------------------------------------	------------------------------------	-----------------------------------

- c. If a public facility is proposed and is currently not available, please describe the funding mechanism for ensuring availability of water service.

Current offsite water lines may need to be upgraded by SVGID. Owner will be responsible for funding of offsite improvements required for serving site.

10. What is the nature and timing of sewer services necessary to accommodate the proposed amendment?

- a. System Type:

<input type="checkbox"/> Individual septic		
<input checked="" type="checkbox"/> Public system	Provider:	Sun Valley General Improvement District

- b. Available:

<input type="checkbox"/> Now	<input checked="" type="checkbox"/> 1-3 years	<input type="checkbox"/> 3-5 years	<input type="checkbox"/> 5+ years
------------------------------	---	------------------------------------	-----------------------------------

- c. If a public facility is proposed and is currently not available, please describe the funding mechanism for ensuring availability of sewer service. If a private system is proposed, please describe the system and the recommended location(s) for the proposed facility.

Capacity will be determined by SVGID in capacity study that is currently being performed. Owner will be responsible for funding of offsite improvements required for serving site.

11. Please identify the street names and highways near the proposed amendment that will carry traffic to the regional freeway system.

Chocolate Dr, Brownlee Lane, W 4th Ave, W 5th Ave, Gepford Pkwy, Sun Valley Blvd, Clear Acre Ln, Dandini Blvd

12. Will the proposed amendment impact existing or planned transportation systems? (If yes, a traffic report will be required.)

<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
---	-----------------------------

13. Community Services (provided and nearest facility):

a. Fire Station	Truckee Meadows Fire & Rescue Station 45
b. Health Care Facility	Renown Health Urgent Care - N Hills
c. Elementary School	Lois Allen Elementary School, Sun Valley Elementary School
d. Middle School	Trainer Middle School
e. High School	Hug High School
f. Parks	Red Hill Park, Sun Valley Regional Park
g. Library	North Valleys Library, Spanish Springs Library
h. Citifare Bus Stop	Multiple bus stops on Sun Valley Blvd between 2nd and 5th Ave

14. Describe how the proposed amendment fosters, promotes, or complies with the policies of the adopted area plans and elements of the Washoe County Master Plan.

a. Population Element:

See attached report for explanation of elements.

b. Conservation Element:

See attached report for explanation of elements.

c. Housing Element:

See attached report for explanation of elements.

d. Land Use and Transportation Element:

See attached report for explanation of elements.

e. Public Services and Facilities Element:

See attached report for explanation of elements.

f. Adopted area plan(s):

See attached report for explanation of area plan requirements.

15. If the area plan includes a Plan Maintenance component, address all policies and attach all studies and analysis required by the Plan Maintenance criteria.

See attached report for explanation of plan maintenance policies. Studies and analyses provided in submittal.

Applicant Comments

This page can be used by the applicant to support the master plan amendment request and should address, at a minimum, how one or more of the findings for an amendment is satisfied. (Please refer to Article 820 of the Washoe County Development Code for the list of Findings.)

Refer to the attached report for highly detailed project description, exhibits, analysis of applicable goals and policies, analysis of required findings, and review of the Truckee Meadows Regional Plan.

APPENDIX D
REGULATORY ZONE AMENDMENT APPLICATION

Community Services Department
Planning and Building
REGULATORY ZONE AMENDMENT
APPLICATION



Community Services Department
Planning and Building
1001 E. Ninth St., Bldg. A
Reno, NV 89512-2845

Telephone: 775.328.6100

Regulatory Zone Amendment Supplemental Information

(All required information may be separately attached)

Please complete the following supplemental information to ensure consistent review of your request to amend the Washoe County Zoning Map. Please provide a brief explanation to all questions answered in the affirmative.

1. List the Following information regarding the property subject to the Regulatory Zone Amendment.
 - a. What is the location (address, distance and direction from nearest intersection)?

The parcel is located in southwest Sun Valley, about half a mile west of Sun Valley Blvd, and on the western edge of Chocolate Drive between West 2nd Ave and West 5th Ave.

- b. Please list the following proposed changes (attach additional sheet if necessary).

APN of Parcel	Master Plan Designation	Current Zoning	Existing Acres	Proposed Zoning	Proposed Acres
502-250-09	Medium Density Suburban	Medium Density Suburban	45.51	Medium Density Urban	45.51

- c. What are the regulatory zone designations of adjacent parcels?

	Zoning	Use (residential, vacant, commercial, etc.)
North	Medium and Low Density Suburban	Vacant and Single Family Residential
South	Open Space	Vacant
East	Medium Density Suburban	Single Family Residential
West	Open Space	Vacant

3. Describe the existing conditions and uses located on the site (i.e. vacant land, roadways, easements, buildings, etc.).

The site is currently vacant with some existing utilities and dirt roadways. Refer to report for detailed description.

4. Describe the natural resources associated with the site under consideration. Your description should include resource characteristics such as water bodies, vegetation, topography, minerals, soils, and wildlife habitat.

There are dirt road pathways throughout the parcel. The majority of the site is 0-15% slopes, while 43% of the site is greater than 15% slope. Refer to detailed report and Phase 1 ESA.

5. Does the property contain development constraints such as floodplain or floodways, wetlands, slopes, or hillsides in excess of 15%, geologic hazards such as active faults, significant hydrologic resources, or major drainages or prime farmland?

<input checked="" type="checkbox"/> Yes, provide map identifying locations	<input type="checkbox"/> No
--	-----------------------------

6. Is the site located in an area where there is potentially an archeological, historic, or scenic resource?

<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
------------------------------	--

Explanation:

--

7. Are there sufficient water rights to accommodate the proposed amendment? Please provide copies of all water rights documents, including chain of title to the original water right holder.)

<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
---	-----------------------------

If yes, please identify the following quantities and documentation numbers relative to the water rights:

a. Permit #		acre-feet per year	
b. Certificate #		acre-feet per year	
c. Surface Claim #		acre-feet per year	
d. Other #		acre-feet per year	

- a. Title of those rights (as filed with the State Engineer in the Division of Water Resources of the Department of Conservation and Natural Resources):

--

- b. If the proposed amendment involves an intensification of land use, please identify how sufficient water rights will be available to serve the additional development.

Sun Valley General Improvement District has verbally indicated the site can be served for the intended use. A capacity study is currently being performed by SVGID..
--

8. Please describe the source and timing of the water facilities necessary to serve the amendment.

- a. System Type:

<input type="checkbox"/> Individual wells		
<input checked="" type="checkbox"/> Private water	Provider:	Sun Valley General Improvement District
<input checked="" type="checkbox"/> Public water	Provider:	Sun Valley General Improvement District

- b. Available:

<input checked="" type="checkbox"/> Now	<input type="checkbox"/> 1-3 years	<input type="checkbox"/> 3-5 years	<input type="checkbox"/> 5+ years
---	------------------------------------	------------------------------------	-----------------------------------

- c. Is this part of a Washoe County Capital Improvements Program project?

<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
------------------------------	--

- d. If a public facility is proposed and is currently not listed in the Washoe County Capital Improvements Program or not available, please describe the funding mechanism for ensuring availability of water service.

Current offsite water lines may need to be upgraded by SVGID. Owner will be responsible for funding of offsite improvements required for serving site.

9. What is the nature and timing of sewer services necessary to accommodate the proposed amendment?

- a. System Type:

<input type="checkbox"/> Individual septic		
<input checked="" type="checkbox"/> Public system	Provider:	Sun Valley General Improvement District

- b. Available:

<input type="checkbox"/> Now	<input checked="" type="checkbox"/> 1-3 years	<input type="checkbox"/> 3-5 years	<input type="checkbox"/> 5+ years
------------------------------	---	------------------------------------	-----------------------------------

- c. Is this part of a Washoe County Capital Improvements Program project?

<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
------------------------------	--

- d. If a public facility is proposed and is currently not listed in the Washoe County Capital Improvements Program or not available, please describe the funding mechanism for ensuring availability of sewer service. If a private system is proposed, please describe the system and the recommended location(s) for the proposed facility.

Sewer capacity will be determined by SVGID in capacity study that is currently being performed. Owner will be responsible for funding of offsite improvements required for serving site

10. Please identify the street names and highways near the proposed amendment that will carry traffic to the regional freeway system.

Chocolate Dr, Brownlee Lane, W 4th Ave, W 5th Ave, Gepford Pkwy, Sun Valley Blvd, Clear Acre Ln, Dandini Blvd

11. Will the proposed amendment impact existing or planned transportation systems? (If yes, a traffic report is required.)

<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
---	-----------------------------

12. Community Services (provided name, address and distance to nearest facility).

a. Fire Station	Truckee Meadows Fire & Rescue Station 45
b. Health Care Facility	Renown Health Urgent Care - N Hills
c. Elementary School	Lois Allen Elementary School, Sun Valley Elementary School
d. Middle School	Desert Skies Middle School
e. High School	North Valleys High School
f. Parks	Red Hill Park, Sun Valley Regional Park
g. Library	North Valleys Library, Spanish Springs Library
h. Citifare Bus Stop	Multiple bus stops on Sun Valley Blvd between 2nd and 5th Ave

Projects of Regional Significance Information For Regulatory Zone Amendments

Nevada Revised Statutes 278.026 defines “Projects of Regional Significance”. Regulatory Zone amendment requests for properties within the jurisdiction of the Truckee Meadows Regional Planning Commission (TMRPC) must respond to the following questions. A “Yes” answer to any of the following questions may result in the application being referred first to the Truckee Meadows Regional Planning Agency (TMRPA) for submission as a project of regional significance. Applicants should consult with County or Regional Planning staff if uncertain about the meaning or applicability of these questions.

1. Will the full development potential of the Regulatory Zone amendment increase employment by not less than 938 employees?

<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
------------------------------	--

2. Will the full development potential of the Regulatory Zone amendment increase housing by 625 or more units?

<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
------------------------------	--

3. Will the full development potential of the Regulatory Zone amendment increase hotel accommodations by 625 or more rooms?

<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
------------------------------	--

4. Will the full development potential of the Regulatory Zone amendment increase sewage by 187,500 gallons or more per day?

<input type="checkbox"/> Yes	<input type="checkbox"/> No
------------------------------	-----------------------------

5. Will the full development potential of the Regulatory Zone amendment increase water usage by 625 acre-feet or more per year?

<input type="checkbox"/> Yes	<input type="checkbox"/> No
------------------------------	-----------------------------

6. Will the full development potential of the Regulatory Zone amendment increase traffic by 6,250 or more average daily trips?

<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
------------------------------	--

7. Will the full development potential of the Regulatory Zone amendment increase the student population from kindergarten to 12th grade by 325 students or more?

<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
------------------------------	--

Regulatory Zone Amendment Findings

Please attach written statements that addresses how the required findings for a Regulatory Zone Amendment and any goals and policies of the affected Area Plan, are being address by this proposal. Below are the required finds as listed in the Washoe County Development Code, Article 821. The individual Area Plans are available on the Washoe County web page, under Planning.

Findings. To make a recommendation for approval, all of the following findings must be made by the Commission:

- (1) Consistency with Master Plan. The proposed amendment is in substantial compliance with the policies and action programs of the Master Plan.
- (2) Compatible Land Uses. The proposed amendment will provide for land uses compatible with (existing or planned) adjacent land uses, and will not adversely impact the public health, safety or welfare.
- (3) Response to Change Conditions; more desirable use. The proposed amendment responds to changed conditions or further studies that have occurred since the plan was adopted by the Board of County Commissioners, and the requested amendment represents a more desirable utilization of land.
- (4) Availability of Facilities. There are or are planned to be adequate transportation, recreation, utility, and other facilities to accommodate the uses and densities permitted by the proposed amendment.
- (5) No Adverse Effects. The proposed amendment will not adversely affect the implementation of the policies and action programs of the Washoe County Master Plan.
- (6) Desired Pattern of Growth. The proposed amendment will promote the desired pattern for the orderly physical growth of the County and guides development of the County based on the projected population growth with the least amount of natural resource impairment and the efficient expenditure of funds for public services.
- (7) Effect on a Military Installation When a Military Installation is Required to be Noticed. The proposed amendment will not affect the location, purpose and mission of a military installation.

APPENDIX E
PROOF OF PROPERTY TAX PAYMENT



NOTICE OF TAXES WASHOE COUNTY, NEVADA

TAMMI DAVIS TREASURER
tax@washoecounty.gov
Annual - Real

2021316610
www.washoecounty.gov/treas
PHONE 775-328-2510
FAX 775-328-2500
12/01/2021 3:28 pm

OFFICE LOCATION:
1001 E NINTH ST-BLDG D RM140
RENO, NV

TAX YEAR	PIN	NAME	PROPERTY LOCATION AND DESCRIPTION
2021	50225009	CHOCOLATE GROUP LLC	WEST GEPFORD PKWY RANGE 19 TOWNSHIP 20 SUBDIVISIONNAME _UNSPECIFIED SECTION BLOCK LOT 4
AREA	TAX RATE		
4020	3.4514000000		
ASSESSED VALUATION			EXEMPTION VALUES
LAND	79,961		EXEMPTION
IMPROVEMENT	0		0.00
TOTAL ASSESSED VALUE	79,961		

2021 ACCOUNT SUMMARY

GROSS AD VALOREM TAX	2,759.78
ABATEMENT AMOUNT	-80.42
<small>*ABATEMENT APPLIED LIMITS INCREASE TO 6.3%*</small>	
RECAPTURE TAX	0.00
NET AD VALOREM TAX	2,679.36
EXEMPTION AMOUNT	0.00
SPECIAL ASSESSMENTS	2.00
PENALTIES	0.00
FEES	0.00
INTEREST	0.00
TOTAL AMOUNT BILLED	2,681.36
LESS PAYMENTS APPLIED	2,681.36
BALANCE REMAINING	0.00
PRIOR YEAR DELINQUENCIES	0.00
TOTAL BALANCE OWING	\$0.00
Amount good through 12/01/2021	

2021 BILLING DETAIL

TAXING AGENCY	RATE	AMOUNT	SPEC. ASSESSMENTS	RATE	AMOUNT
STATE OF NEVADA	0.170000000	132.68	TRUCKEE/SUN VLY WATER BASIN		2.00
SUN VALLEY GID	0.211200000	150.48			
TRUCKEE MEADOWS FIRE	0.540000000	421.45			
SCHOOL DEBT	0.388500000	303.21			
SCHOOL GENERAL	0.750000000	585.36			
COUNTY GENERAL	1.344700000	1,049.50			
COUNTY DEBT	0.017000000	13.26			
ANIMAL SHELTER	0.030000000	23.42			

IF PROPERTY IS PROTECTED BY BANKRUPTCY, THIS IS FOR YOUR INFORMATION. DO NOT CONSIDER THIS AS AN ATTEMPT TO COLLECT.

PAYMENTS RECEIVED WILL BE APPLIED TO THE OLDEST CHARGES FIRST.
TO AVOID LATE CHARGES, PAYMENTS MUST BE POSTMARKED BY THE DUE DATE.
ALL DELINQUENT AMOUNTS ARE DUE IMMEDIATELY.

PLEASE INCLUDE APPROPRIATE STUBS
WITH PAYMENT TO ASSURE PROPER
CREDIT.

50225009
CHOCOLATE GROUP LLC
3860 GS RICHARDS BLVD
CARSON CITY NV 89703

MAKE REMITTANCES PAYABLE TO:
WASHOE COUNTY TREASURER
P O BOX 30039
RENO NV 89520-3039

SEE REVERSE FOR INFORMATION.

4

MAIL TO: WASHOE COUNTY TREASURER P O BOX 30039 RENO NV 89520-3039

TAX YEAR	AMOUNT TO PAY CURRENT	INSTALLMENT DUE DATE	PARCEL #
2021			50225009

DUPLICATE
DO NOT USE THIS COUPON

If your address has changed, please provide the following information:

Address: _____

Effective Date: _____

Signature: _____

Daytime Phone Number: _____

3

MAIL TO: WASHOE COUNTY TREASURER P O BOX 30039 RENO NV 89520-3039

TAX YEAR	AMOUNT TO PAY CURRENT	INSTALLMENT DUE DATE	PARCEL #
2021			50225009

DUPLICATE
DO NOT USE THIS COUPON

If your address has changed, please provide the following information:

Address: _____

Effective Date: _____

Signature: _____

Daytime Phone Number: _____

2

MAIL TO: WASHOE COUNTY TREASURER P O BOX 30039 RENO NV 89520-3039

TAX YEAR	AMOUNT TO PAY CURRENT	INSTALLMENT DUE DATE	PARCEL #
2021			50225009

DUPLICATE
DO NOT USE THIS COUPON

If your address has changed, please provide the following information:

Address: _____

Effective Date: _____

Signature: _____

Daytime Phone Number: _____

1

MAIL TO: WASHOE COUNTY TREASURER P O BOX 30039 RENO NV 89520-3039

TAX YEAR	AMOUNT TO PAY CURRENT	INSTALLMENT DUE DATE	TOTAL AMOUNT DUE	PARCEL #
2021				50225009

DUPLICATE
DO NOT USE THIS COUPON

If your address has changed, please provide the following information:

Address: _____

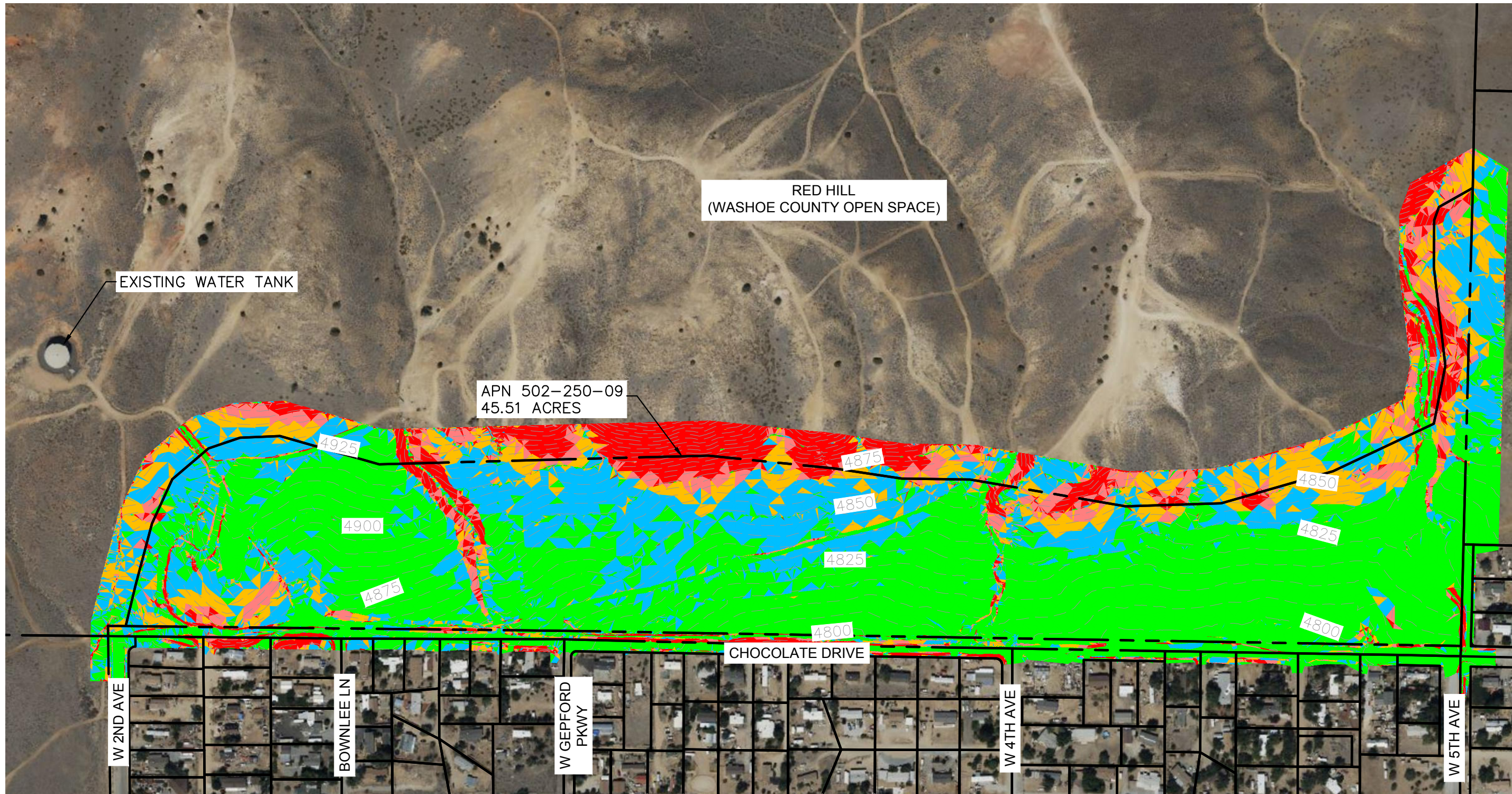
Effective Date: _____

Signature: _____

Daytime Phone Number: _____

APPENDIX F
SLOPE ANALYSIS

\\RENFP01\MT_REN\REN_CIVIL\068151204 - CLEAR CREEK TAHOE\NEW WORKMASTER REFERENCES\11X17 LANDSCAPE EXHIBIT TB.DWG
11/10/2020 7:20 AM



RED HILL
(WASHOE COUNTY OPEN SPACE)

EXISTING WATER TANK

APN 502-250-09
45.51 ACRES

CHOCOLATE DRIVE

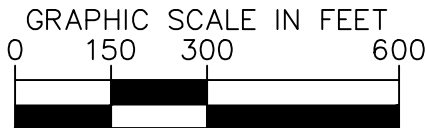
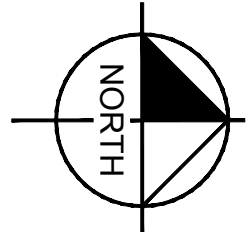
W 2ND AVE

BOWNLEE LN

W GEPFORD
PKWY

W 4TH AVE

W 5TH AVE



Slopes Table

Number	Minimum Slope	Maximum Slope	Color
1	0.04%	15.00%	Green
2	15.00%	20.00%	Blue
3	20.00%	25.00%	Yellow
4	25.00%	30.00%	Red
5	30.00%	57879.93%	Red

-APPROXIMATELY 43%± OF SITE IS
OVER 15% IN SLOPE AND 8± ACRES
OVER 30% IN SLOPE

Kimley»Horn

7900 Rancharrah Parkway
Suite 100
Reno, Nevada 89511
775-200-1978

NOTE: THIS PLAN IS CONCEPTUAL IN NATURE AND HAS BEEN PRODUCED WITHOUT THE BENEFIT OF A SURVEY, TREE LOCATION SURVEY, UTILITIES, ETC. ADDITIONAL SURVEY IS REQUIRED TO PHYSICALLY LOCATE EXISTING TREES AND VERIFY TOPOGRAPHY SHOWN.

**6400 CHOCOLATE DRIVE
SLOPE ANALYSIS
WASHOE COUNTY, NEVADA**

DWG NAME
LAST SAVED

APPENDIX G
RED HILL CONCEPTUAL PLAN

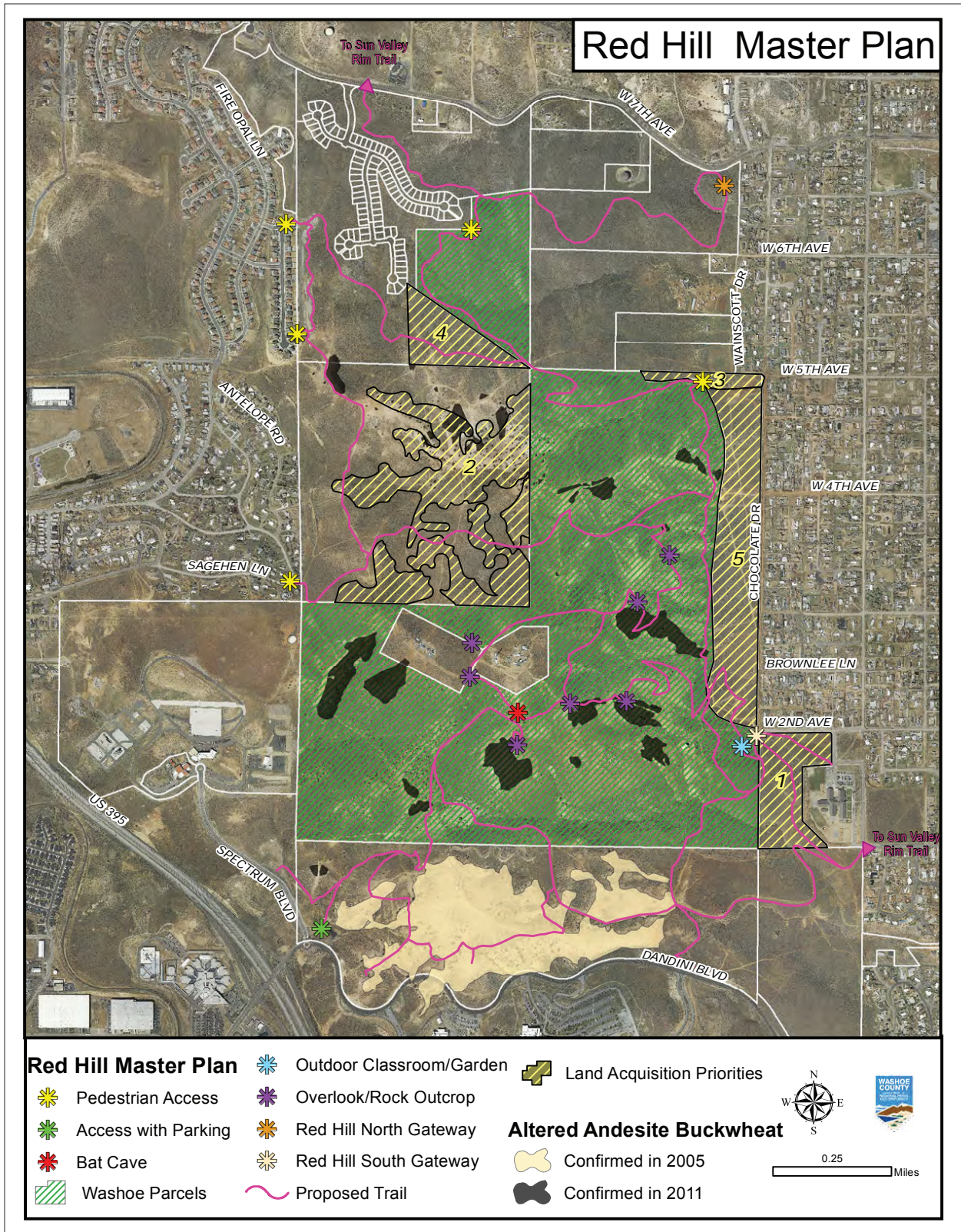
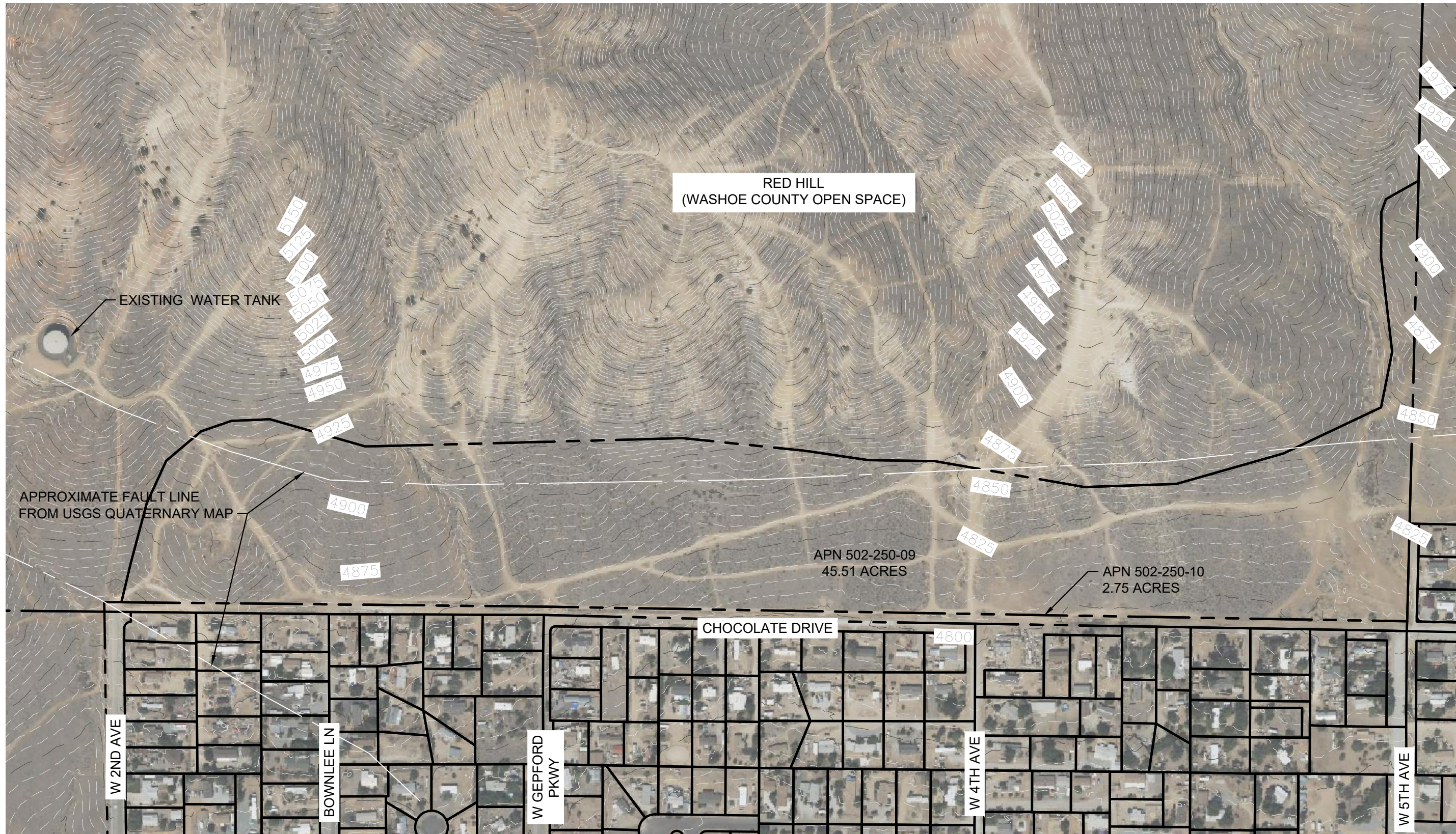


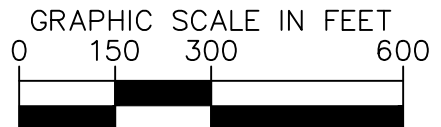
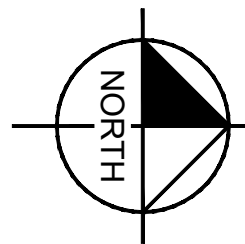
Figure J: Final Conceptual Plan (Digitized Version)

APPENDIX H
EXISTING CONDITIONS EXHIBIT AND ALTA

\\RENFP01\MT_REN\REN_CIVIL\068151204 - CLEAR CREEK TAHOE\NEW WORKMASTER REFERENCES\11X17 LANDSCAPE EXHIBIT TB.DWG
11/10/2020 7:20 AM



6400 CHOCOLATE DRIVE EXISTING CONDITION WASHOE COUNTY, NEVADA



Kimley»Horn

7900 Rancharrah Parkway
Suite 100
Reno, Nevada 89511
775-200-1978

NOTE: THIS PLAN IS CONCEPTUAL IN NATURE AND HAS BEEN PRODUCED WITHOUT THE BENEFIT OF A SURVEY, TREE LOCATION SURVEY, UTILITIES, ETC. ADDITIONAL SURVEY IS REQUIRED TO PHYSICALLY LOCATE EXISTING TREES AND VERIFY TOPOGRAPHY SHOWN.

DWG NAME
LAST SAVED

SCHEDULE B, PART II EXCEPTIONS

1. TAXES OR ASSESSMENTS WHICH ARE NOT SHOWN AS EXISTING LIENS BY THE RECORDS OF ANY TAXING AUTHORITY THAT LEVIES TAXES OR ASSESSMENTS ON REAL PROPERTY OR BY THE PUBLIC RECORDS. PROCEEDINGS BY A PUBLIC AGENCY WHICH MAY RESULT IN TAXES OR ASSESSMENTS, OR NOTICES OF SUCH PROCEEDINGS, WHETHER OR NOT SHOWN BY THE RECORDS OF SUCH AGENCY OR BY THE PUBLIC RECORDS.
2. ANY FACTS, RIGHTS, INTERESTS, OR CLAIMS THAT ARE NOT SHOWN BY THE PUBLIC RECORDS BUT THAT COULD BE ASCERTAINED BY AN INSPECTION OF THE LAND OR THAT MAY BE ASSERTED BY PERSONS IN POSSESSION THEREOF.
3. EASEMENTS, LIENS OR ENCUMBRANCES, OR CLAIMS THEREOF, NOT SHOWN BY THE PUBLIC RECORDS.
4. DISCREPANCIES, CONFLICTS IN BOUNDARY LINES, SHORTAGE IN AREA, ENCROACHMENTS, OR ANY OTHER FACTS WHICH A CORRECT SURVEY WOULD DISCLOSE, AND THAT ARE NOT SHOWN BY THE PUBLIC RECORDS.
5. UNPATENTED MINING CLAIMS, (B) RESERVATIONS OR EXCEPTIONS IN PATENTS OR IN ACTS AUTHORIZING THE ISSUANCE THEREOF, (C) WATER RIGHTS OR CLAIMS OR TITLE TO WATER, WHETHER OR NOT THE MATTERS EXCEPTED UNDER (A), (B) OR (C) ARE SHOWN BY THE PUBLIC RECORDS.
6. ANY LIEN OR RIGHT TO A LIEN FOR SERVICES, LABOR, MATERIAL OR EQUIPMENT, UNLESS SUCH LIEN IS SHOWN BY THE PUBLIC RECORDS AT DATE OF POLICY AND NOT OTHERWISE EXCEPTED FROM COVERAGE HEREIN.

EXCEPTIONS 1-6 WILL BE OMITTED ON EXTENDED COVERAGE POLICIES

7. ANY DEFECT, LIEN, ENCUMBRANCE, ADVERSE CLAIM, OR OTHER MATTER THAT APPEARS FOR THE FIRST TIME IN THE PUBLIC RECORDS OR IS CREATED, ATTACHES, OR IS DISCLOSED BETWEEN THE COMMITMENT DATE AND THE DATE ON WHICH ALL OF THE SCHEDULE B, PART I-REQUIREMENTS ARE MET. (NOT PLOTTABLE)
8. WATER RIGHTS, CLAIMS OR TITLE TO WATER, WHETHER OR NOT SHOWN BY THE PUBLIC RECORDS. (NOT PLOTTABLE)
9. ANY TAXES THAT MAY BE DUE, BUT NOT ASSESSED, FOR NEW CONSTRUCTION WHICH CAN BE ASSESSED ON THE UNSECURED PROPERTY ROLLS, IN THE OFFICE OF THE COUNTY ASSESSOR, PER NEVADA REVISED STATUTE 361.260. (NOT PLOTTABLE)
10. ANY TAXES THAT MAY BE DUE AS PROVIDED UNDER NRS 361.4725. (NOT PLOTTABLE)
11. ANY UNPAID CHARGES DUE THE SUN VALLEY GENERAL IMPROVEMENT DISTRICT SPECIFIC AMOUNTS MAY BE OBTAINED BY CALLING 775-673-2220. (NOT PLOTTABLE)
12. ANY UNPAID CHARGES DUE THE WASHOE COUNTY SEWER & WATER DISTRICT. SPECIFIC AMOUNTS MAY BE OBTAINED BY CALLING THE WASHOE COUNTY WATER RESOURCES, UTILITY SERVICES DIVISION AT P.O. BOX 11130, RENO, NV 89520, (775) 954-4601. (NOT PLOTTABLE)

13. THOSE TAXES FOR THE FISCAL YEAR JULY 1, 2021 THROUGH JUNE 30, 2022, INCLUDING ANY SECURED PERSONAL PROPERTY TAXES COLLECTED BY THE COUNTY TREASURER.
 APN 502-250-09
 1ST INSTALLMENT \$ 671.84 PAID
 2ND INSTALLMENT \$ 669.84
 3RD INSTALLMENT \$ 669.84
 4TH INSTALLMENT \$ 669.84

TOTAL \$ 2,681.36

NOTE:
 SAID TAXES BECOME A LIEN ON JULY 1, 2021, EACH INSTALLMENT WILL BECOME DUE AND PAYABLE ON THE FOLLOWING DATES:

- 1ST INSTALLMENT IS DUE ON THE 3RD MONDAY OF AUGUST, 2021.
- 2ND INSTALLMENT IS DUE ON THE 1ST MONDAY OF OCTOBER, 2021.
- 3RD INSTALLMENT IS DUE ON THE 1ST MONDAY OF JANUARY, 2022.
- 4TH INSTALLMENT IS DUE ON THE 1ST MONDAY OF MARCH, 2022.

EACH INSTALLMENT WILL BECOME DELINQUENT TEN (10) DAYS AFTER DUE.
 (AFFECTS PARCEL 1) (NOT PLOTTABLE)

14. GENERAL AND SPECIAL TAXES AND ASSESSMENTS FOR THE FISCAL YEAR JULY 1, 2021 THROUGH JUNE 30, 2022 ARE EXEMPT. IF THE EXEMPT STATUS IS TERMINATED AN ADDITIONAL TAX MAY BE LEVIED. A.P. NO.: 502-250-10.

(AFFECTS PARCEL 2) (NOT PLOTTABLE)

THE FOLLOWING MATTERS AFFECT ALL PARCELS:

15. RIGHTS OF WAY FOR ANY EXISTING ROADS, TRAILS, CANALS, DITCHES, FLUMES, CONDUITS, PIPE, POLE OR TRANSMISSION LINES ON, UNDER, OVER, THROUGH OR ACROSS SAID PREMISES. RIGHT OF WAY TO THE SUN VALLEY GENERAL IMPROVEMENT DISTRICT GRANTED BY THE BUREAU OF LAND MANAGEMENT, NVN - 000284.
 (AFFECTS PARCEL 2)
16. A DOCUMENT ENTITLED "NOTICE RE SEWER CAPACITY" RECORDED NOVEMBER 18, 1997 IN BOOK 5046, PAGE 115 AS INSTRUMENT NO. 2154464 OF OFFICIAL RECORDS. (NOT PLOTTABLE)

17. RESERVATIONS AND PROVISIONS AS CONTAINED IN PATENT FROM THE UNITED STATES OF AMERICA, RECORDED APRIL 10, 2001, IN BOOK N/A OF OFFICIAL RECORDS, AS INSTRUMENT NO. 2541714. AN EASEMENT AS CONTAINED IN THE ABOVE DOCUMENT FOR DITCHES AND CANALS AND INCIDENTAL PURPOSES. (DITCHES & CANALS NOT PLOTTABLE) (OTHER GRANTS OF EASEMENTS AS SHOWN ON SURVEY)
18. EASEMENTS, DEDICATIONS, RESERVATIONS, PROVISIONS, RELINQUISHMENTS, RECITALS, CERTIFICATES, AND ANY OTHER MATTERS AS PROVIDED FOR OR DELINEATED ON PARCEL MAP MAP NO. 3767 REFERENCED IN THE LEGAL DESCRIPTION CONTAINED HEREIN. REFERENCE IS HEREBY MADE TO SAID PLAT FOR PARTICULARS. (AS SHOWN ON SURVEY SEE NOTES 4, 5 6 AND 7).
19. THE TERMS, PROVISIONS AND EASEMENT(S) CONTAINED IN THE DOCUMENT ENTITLED "AGREEMENT TO GRANT RIGHT-OF-WAY AND ACCESS AND UTILITY EASEMENT" RECORDED AUGUST 27, 2001 AS INSTRUMENT NO. 2589709 OF OFFICIAL RECORDS. (AFFECTS PARCEL 2) (AS SHOWN ON SURVEY).
20. ANY FACTS, RIGHTS, INTERESTS OR CLAIMS WHICH WOULD BE DISCLOSED BY A CORRECT ALTA/NSPS SURVEY.
21. RIGHTS OF PARTIES IN POSSESSION.

LEGAL DESCRIPTION

THE LAND REFERRED TO HEREIN BELOW IS SITUATED IN THE COUNTY OF WASHOE, STATE OF NEVADA, AND DESCRIBED AS FOLLOWS:

PARCEL 1:

PARCEL 4 OF PARCEL MAP NO. 3767, FILED IN THE OFFICE OF THE COUNTY RECORDER, WASHOE COUNTY, STATE OF NEVADA, ON APRIL 25, 2001, AS DOCUMENT NO. 2546369, OF OFFICIAL RECORDS.

EXCEPTING THEREFROM ALL THAT PORTION OF CHOCOLATE DRIVE, DEDICATED TO THE COUNTY OF WASHOE BY THE ABOVE REFERENCED MAP.

PARCEL 2:

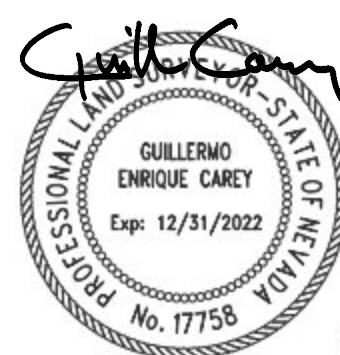
THAT PORTION OF CHOCOLATE DRIVE DEDICATED TO THE COUNTY OF WASHOE ON PARCEL MAP NO. 3767, FILED IN THE OFFICE OF THE COUNTY RECORDER, WASHOE COUNTY, STATE OF NEVADA, ON APRIL 25, 2001, AS DOCUMENT NO. 2546369, OFFICIAL RECORDS.

SURVEYOR'S CERTIFICATE

TO: PEDCOR INVESTMENTS, A LIMITED LIABILITY COMPANY AND FIRST AMERICAN TITLE INSURANCE COMPANY

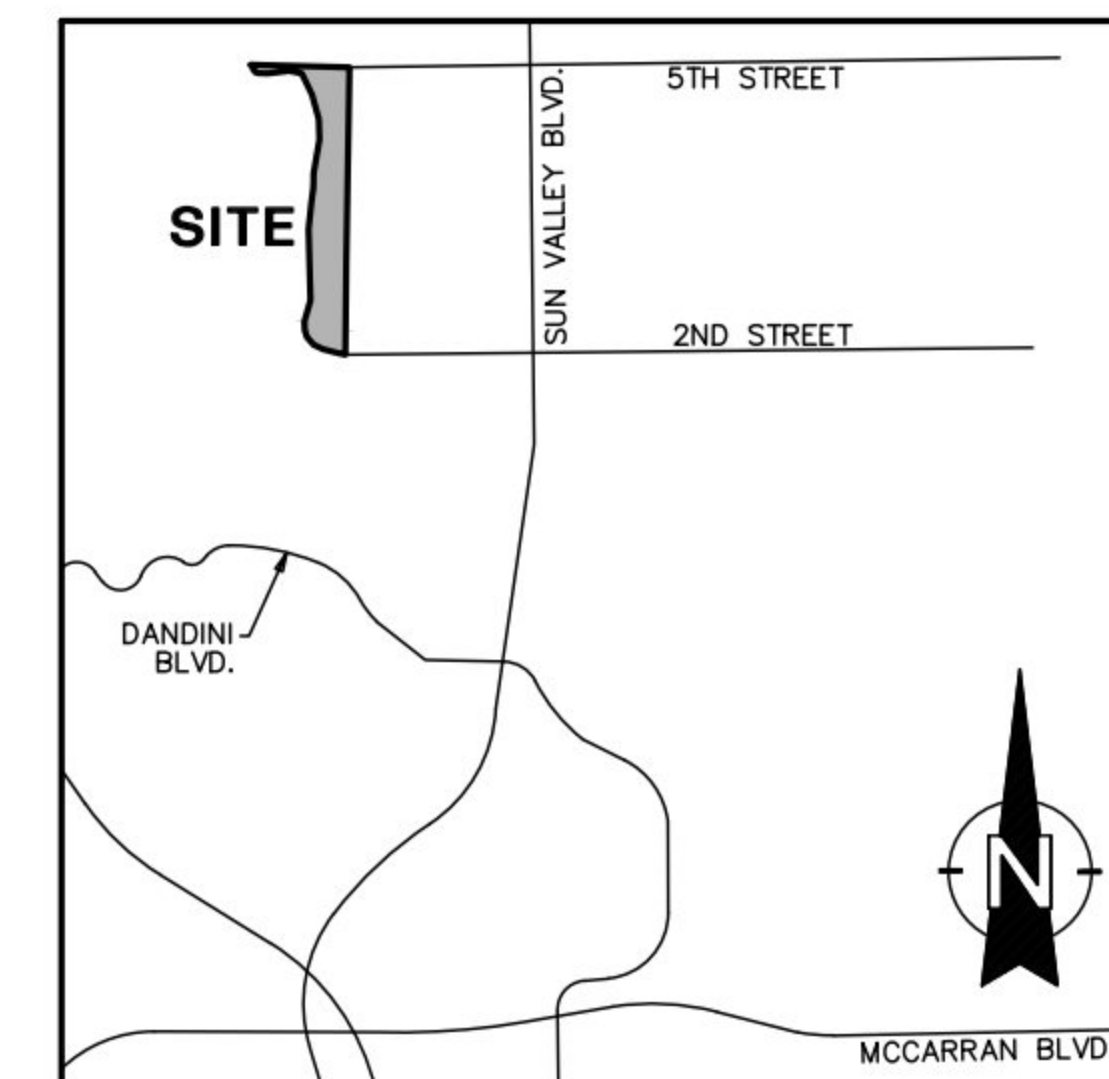
THIS IS TO CERTIFY THAT THIS MAP OR PLAT AND THE SURVEY ON WHICH IT IS BASED WERE MADE IN ACCORDANCE WITH THE 2021 MINIMUM STANDARD DETAIL REQUIREMENTS FOR ALTA/NSPS LAND TITLE SURVEYS, JOINTLY ESTABLISHED AND ADOPTED BY ALTA AND NSPS, AND INCLUDES ITEMS 1, 2, 3, 4, 6(a), 6(b), 7, 8, 11, 12, 13, 14, 15, 16, 17, 18, AND 19 OF TABLE "A" THEREOF. THE FIELD WORK WAS COMPLETED ON OCTOBER 2021.

DATE OF PLAT OR MAP: NOVEMBER 17, 2021



11/17/2021

GUILLERMO E. CAREY
 NEVADA LICENSED LAND SURVEYOR NO. 17758
 MAPCA SURVEYS, INC.



VICINITY MAP
 N.T.S

ALTA/NSPS LAND TITLE SURVEY
PEDCOR INVESTMENTS, LLC
6400 CHOCOLATE DRIVE
SUN VALLEY, NEVADA 89433
FIRST AMERICAN TITLE INSURANCE COMPANY

ORDER NO. NCS-1087613-INDY
 DATED: AUGUST 6, 2021
 APN 502-250-09 (45.51± ACRES)

PARCEL 4, PARCEL MAP No.3767
 A PORTION OF SECTION 24
 T.20 N. - R19 E., M.D.B.&M.
 WASHOE COUNTY, NEVADA
 NOVEMBER 17, 2021



ALTA/NSPS LAND TITLE SURVEY
 PEDCOR INVESTMENTS, LLC
 6400 CHOCOLATE DRIVE
 SUN VALLEY, NEVADA 89433
 FIRST AMERICAN TITLE INSURANCE COMPANY

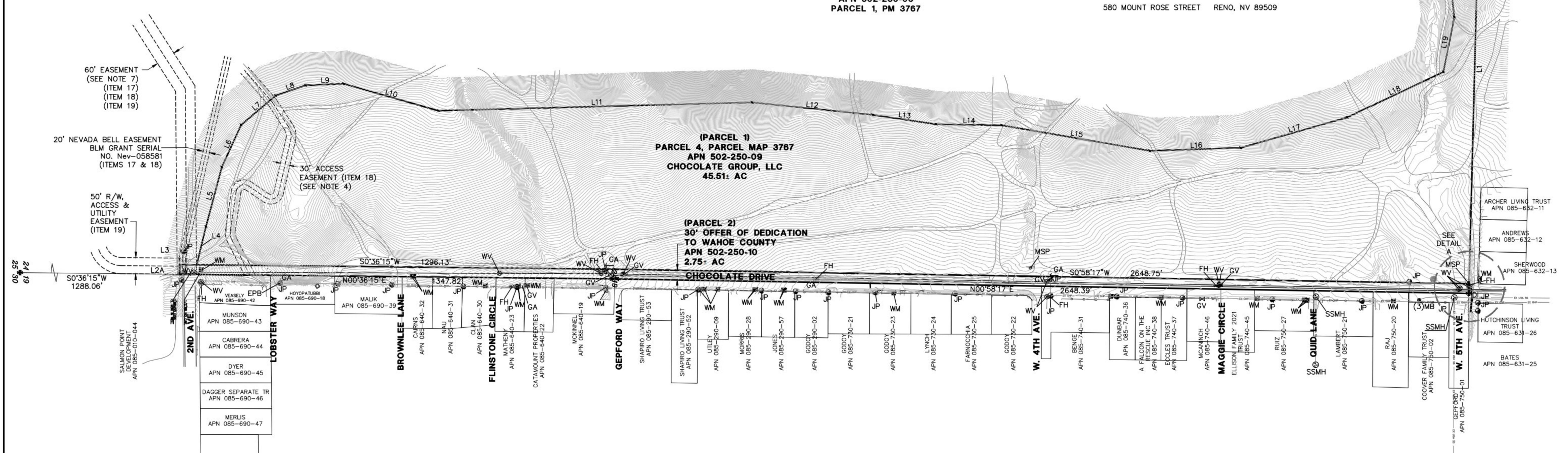
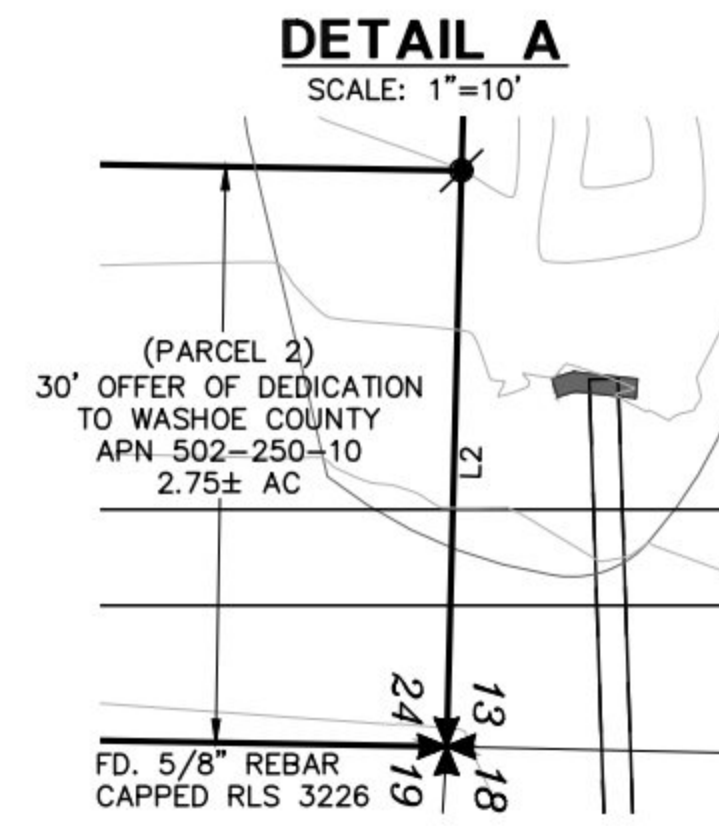
ORDER NO. NCS-1087613-INDY
 DATED: AUGUST 6, 2021
 APN 502-250-09 (45.51± ACRES)

PARCEL 4, PARCEL MAP No.3767
 A PORTION OF SECTION 24
 T.20 N. - R.19 E., M.D.B.&M.
 WASHOE COUNTY, NEVADA
 NOVEMBER 17, 2021

MAPCA
 SURVEYS INC.
 580 MOUNT ROSE STREET RENO, NV 89509

WASHOE COUNTY
 APN 502-250-06
 PARCEL 1, PM 3767

L#	BEARING	DISTANCE
L1	S88°31'29"E	1352.34'
L2	S88°31'29"E	30.00'
L2A	N89°13'21"E	30.01'
L3	S0°36'15"W	52.51'
L4	N76°23'04"W	122.14'
L5	N75°05'17"W	190.45'
L6	N65°23'29"W	144.12'
L7	N40°18'08"W	140.33'
L8	N18°50'59"W	98.29'
L9	N2°25'35"W	118.13'
L10	N15°54'24"E	304.73'
L11	N1°30'04"W	973.53'
L12	N5°50'22"E	376.03'
L13	N8°29'16"E	198.21'
L14	N0°50'48"E	203.06'
L15	N9°47'46"E	465.68'
L16	N1°52'43"W	282.21'
L17	N15°56'23"W	343.26'
L18	N25°16'56"W	329.63'
L19	N78°44'19"W	174.14'
L20	S83°19'49"W	292.79'
L21	N89°35'11"W	138.53'
L22	N70°22'09"W	41.68'
L23	N29°22'37"W	114.44'



ZONING

ZONE: CACZ (SFR LAND - MDS/LDS ZONING)
 BUILDING SIZE: NO MIN./NO MAX.
 FRONT BUILDING SETBACK: 10 FEET.
 SIDE SETBACK: 0-10 FEET.
 REAR SETBACK: 0-10 FEET.
 BUILDING SEPARATION: 20 FEET MINIMUM BETWEEN MAIN BUILDINGS ON THE SAME LOT FOR DEVELOPMENTS OF 50 UNITS OR MORE, AND 10 FEET FOR DEVELOPMENTS OF LESS THAN 50 UNITS.
 BUILDING HEIGHT: CRC OVERLAY STANDARD: 100 FOOT HEIGHT LIMIT.

NOTES

- THIS SURVEY IS BASED ON THE INFORMATION CONTAINED IN THAT PRELIMINARY TITLE REPORT ISSUED BY FIRST AMERICAN TITLE INSURANCE COMPANY, ORDER NO. NCS-1083510-LA2, DATED JULY 23, 2021.
- NO PROPOSED CHANGES IN STREET RIGHT-OF-WAY LINES WAS REPORTED AT THE TIME OF THIS SURVEY.
- NO WETLAND DELINEATION MARKERS WERE OBSERVED ON SITE AT THE TIME OF THIS SURVEY.
- THE 30' ACCESS EASEMENT THROUGH PARCEL 4 FOR THE BENEFIT OF THE SUN VALLEY GENERAL IMPROVEMENT DISTRICT IS RELOCATABLE AT THE EXPENSE OF THE OWNER OF PARCEL 4 PER PARCEL MAP #3767. (ITEM NO. 18)
- A UTILITY EASEMENT IS ALSO HEREBY GRANTED WITHIN EACH PARCEL FOR THE EXCLUSIVE PURPOSE OF INSTALLING AND MAINTAINING UTILITY SERVICE FACILITIES TO THAT PARCEL AND THE RIGHT TO EXIT THAT PARCEL WITH SAID UTILITY FACILITIES FOR THE PURPOSE OF SERVING ADJACENT PARCELS AT LOCATIONS MUTUALLY AGREE UPON BY THE OWNER OF RECORD AT THAT TIME AND THE UTILITY COMPANY PER PARCEL MAP #3767 (ITEM NO. 18)
- THE NATURAL DRAINAGE WILL NOT BE IMPEDED DURING THE DEVELOPMENT OR IMPROVEMENT OF THESE PARCELS PER PARCEL MAP #3767 (ITEM NO. 18)
- 60' SUN VALLEY GID ACCESS, WATER PIPELINE AND RESERVOIR SITE EASEMENT GRANTED BY BLM SERIAL NO. N-284 (ITEMS 17, 18 & 19); A 60' SIERRA PACIFIC POWER CO. ELECTRIC TRANSMISSION EASEMENT GRANTED BY BLM SERIAL NO. N-1109 (ITEMS 17 & 18); AND A 60' COMMUNICATIONS LINE EASEMENT GRANTED BY BLM SERIAL NO. N-1228. (ITEMS NO. 17 & 18).

BASIS OF BEARINGS

NEVADA STATE PLANE COORDINATE SYSTEM WEST ZONE, NAD83 (94), DISTANCES SHOWN HEREON ARE GROUND DISTANCES, CALCULATED USING A GRID TO GROUND COMBINED SCALE FACTOR OF 1.000197939

REFERENCES

PARCEL MAP #3767 FOR AMERICAN LAND CONSERVATORY, ACCORDING TO THE MAP THEREOF, FILED IN THE OFFICE OF THE COUNTY RECORDER OF WASHOE COUNTY, STATE OF NEVADA, ON APRIL 28, 2001, AS FILE NO. 2546369.

FLOOD ZONE

THIS PROPERTY IS ENTIRELY WITHIN FLOOD ZONE 'X', AREA OF MINIMAL FLOOD HAZARD; AS SHOWN ON THE FLOOD INSURANCE RATE MAP (FIRM) NO. 32031C3033G, EFFECTIVE MARCH 16, 2009.

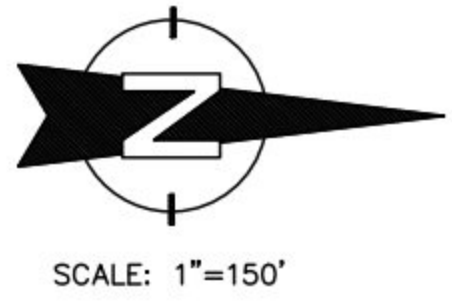
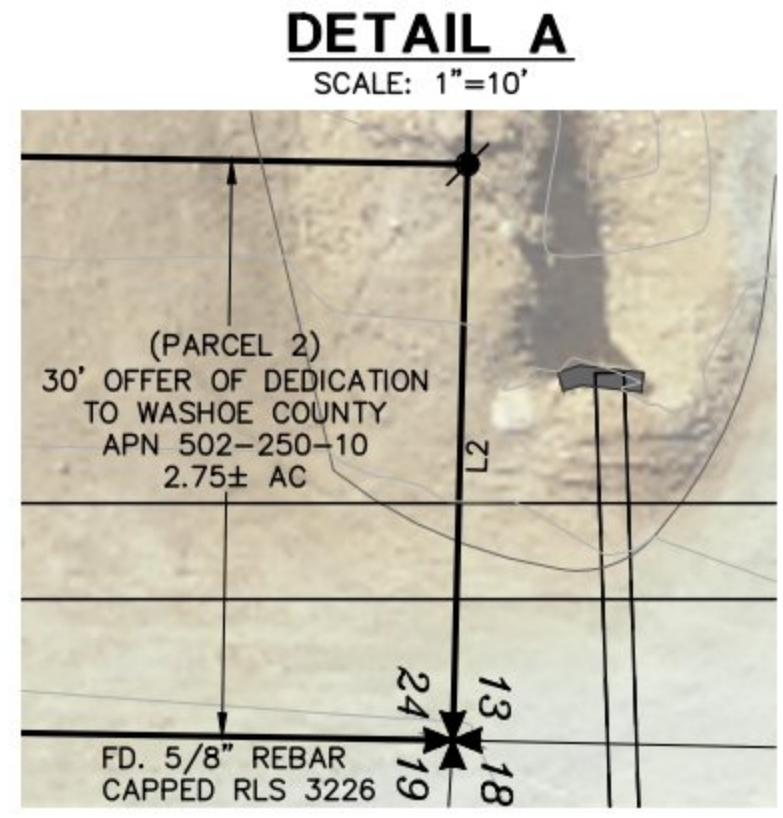
VERTICAL DATUM

NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88) BASED ON CITY OF SPARKS BENCHMARK NO. 3036, A 2" BRASS DISK MARKING THE SOUTHEAST CORNER OF SECTION 24, T.20N.-R.19E. M.D.B.&M. ELEVATION = 4677.80

LEGEND

- NOTHING FOUND/SET
- FOUND 5/8" REBAR CAPPED PLS 6495 UNLESS INDICATED OTHERWISE
- EPB ELECTRICAL PULL BOX
- JP JOINT/POWER POLE
- GA GUY ANCHOR
- MSP METAL SIGN POST
- GV GAS VALVE/TEST STATION
- GM GAS METER
- MB MAILBOX
- SSMH SANITARY SEWER MANHOLE
- DI STORM DRAIN INLET
- 7 DRAIN CULVERT
- WM WATER METER
- WV WATER VALVE
- FH FIRE HYDRANT
- TREE/CONIFEROUS
- 13 18 CORNER OF SECTION
- 24 19 QUARTER CORNER
- 24 19

L#	BEARING	DISTANCE
L1	S88°31'29"E	1352.34'
L2	S88°31'29"E	30.00'
L2A	N89°13'21"E	30.01'
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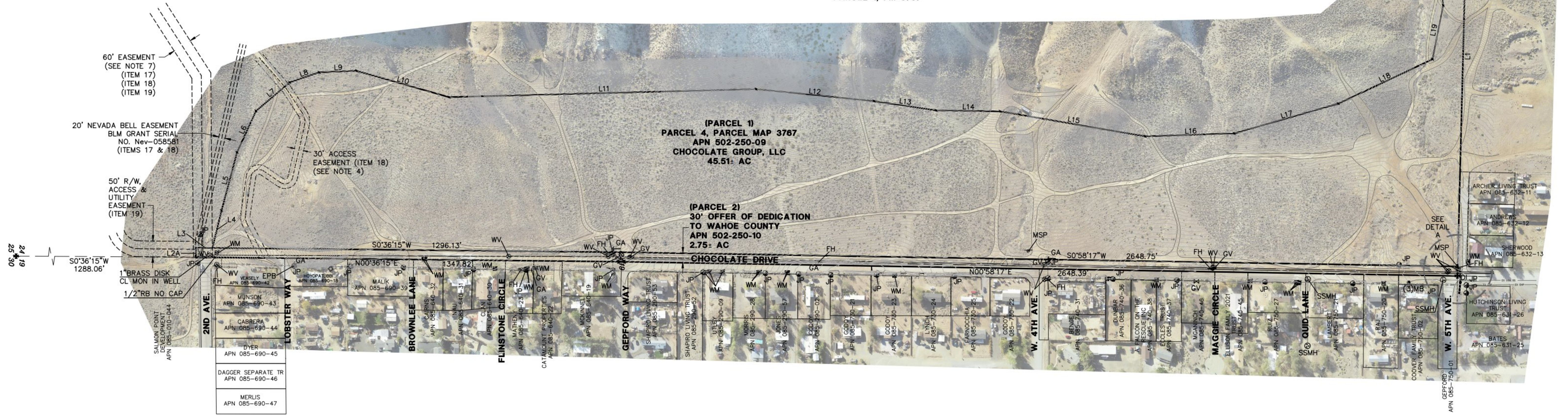


ALTA/NSPS LAND TITLE SURVEY
PEDCOR INVESTMENTS, LLC
6400 CHOCOLATE DRIVE
SUN VALLEY, NEVADA 89433
FIRST AMERICAN TITLE INSURANCE COMPANY

ORDER NO. NCS-1087613-INDY
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A PORTION OF SECTION 24
T.20 N. - R19 E., M.D.B.&M.
WASHOE COUNTY, NEVADA
NOVEMBER 17, 2021



WASHOE COUNTY
 APN 502-250-06
 PARCEL 1, PM 3767



 **TRAFFIC IMPACT STUDY**

CHOCOLATE DRIVE

RENO, NEVADA

APN: 502-250-09

Prepared for:
Pedcor Investments, a Limited Liability Company
One Pedcor Square
770 3rd Avenue SW
Carmel, IN 46032

Prepared by:
Kimley»»Horn

January 2022
192233000
Copyright © Kimley-Horn and Associates, Inc.

TRAFFIC IMPACT STUDY

FOR

CHOCOLATE DRIVE

Prepared for:

Pedcor Investments, a Limited Liability Company
One Pedcor Square
770 3rd Avenue SW
Carmel, IN 46032

Prepared by:

Kimley-Horn and Associates, Inc.
7900 Rancharrah Parkway
Suite 100
Reno, Nevada 89511
(775) 787-7552

This document, together with the concepts and designs presented herein, as an instrument of service, is intended only for the specific purpose and client for which it was prepared. Reuse of and improper reliance on this document without written authorization and adaptation by Kimley-Horn and Associates, Inc. shall be without liability to Kimley-Horn and Associates, Inc.

© January 2022
192233000



EXECUTIVE SUMMARY

The proposed residential development is to be generally located west of Chocolate Drive between 5th Street and Brownlee Lane on approximately 45.51 acres within APN 502-250-09 in Reno, Nevada. The site is currently undeveloped. Upon project completion in 2023, the proposed development is anticipated to consist of approximately 240 units of two-story low-income affordable multifamily housing.

Regional access to the residential development is expected to be provided via Sun Valley Boulevard. Primary access to the project is given by Chocolate Drive, 5th Avenue, 4th Avenue, and Brownlee Lane. Direct access to the site is planned to be provided by three (3) full access driveways along Chocolate Drive at the intersections of 5th Avenue, 4th Avenue, and Brownlee Lane (#1, #3, and Drive C).

The Washoe County scope of study, dated November 24, 2021, identified four (4) intersections for full analysis:

- Chocolate Drive and 5th Avenue/Drive A (#1)
- Sun Valley Boulevard and 5th Avenue (#2)
- Chocolate Drive and 4th Avenue/Drive B (#3)
- Sun Valley Boulevard and 4th Avenue (#4)

The scope of study from Washoe County is included in **Appendix A**. The study area intersections are shown in **Figure E-1**.

Full buildout of the residential development is anticipated to generate approximately 96 AM peak hour trips and approximately 122 PM peak hour trips to the surrounding street network.

The proposed residential development traffic is anticipated to generate traffic volumes resulting in the following recommendations:

- The developer is recommended to install R1-1 “STOP” signs with appropriate pavement markings for the egressing access drive approaches along Chocolate Drive per current Manual on Uniform Traffic Control Devices (MUTCD) Guidelines.
- All on-site and off-site signing and striping improvements should be incorporated into the Civil Drawings and conform to the current MUTCD, as applicable.
- The project is not anticipated to have significant impacts to the study intersections and the surrounding street network.



STUDY INTERSECTIONS

1. 5th Avenue and Chocolate Drive
2. 5th Avenue and Sun Valley Boulevard
3. 4th Avenue and Chocolate Drive
4. 4th Avenue and Sun Valley Boulevard

SOURCE: NEARMAP

CHOCOLATE DRIVE PROJECT ACCESS DRIVES AND STUDY AREA INTERSECTIONS

LEGEND:

- ① Study Area Key Intersection
- Ⓐ Project Access Drive

FIGURE E-1
Kimley»Horn

TABLE OF CONTENTS

1. INTRODUCTION 1

2. EXISTING CONDITIONS 3

 2.1. Study Area Intersections 3

 2.2. Existing Land Uses 3

 2.3. Existing Lane Configurations and Control 3

 2.4. Existing Turning Movements 3

3. FUTURE CONDITIONS 7

 3.1. 2023 Background Lane Configuration and Control 7

 3.2. 2023 Buildout Background Traffic 7

 3.3. 2023 Background plus Project Lane Configuration and Control 7

 3.4. Project Trip Generation 10

 3.5. Project Trip Distribution 10

 3.6. Traffic Assignment 10

 3.7. 2023 Background Plus Project Traffic Volumes 10

4. TRAFFIC IMPACT ANALYSIS 14

 4.1. Analysis Methodology 14

 4.2. Peak Hour Operational Analysis 14

 4.3. Left Turn Storage Bay Analysis 16

5. BICYCLE/PEDESTRIAN/TRANSIT FACILITIES 17

 5.1. Local Bicycle/Pedestrian Access and School Walking Routes 17

 5.2. Public Transportation 17

6. CRASH DATA SUMMARY 18

7. CONCLUSIONS/RECOMMENDATIONS 19

LIST OF FIGURES

Figure 1 – Vicinity Map.....2
Figure 2 – Study Area4
Figure 3 – 2021 Existing Lane Configuration and Control5
Figure 4 – 2021 Existing Peak Hour Traffic Volumes6
Figure 5 – 2023 Background Peak Hour Traffic Volumes8
Figure 6 – 2023 Background Plus Project Lane Configuration and Control9
Figure 7 – Project Trip Distribution11
Figure 8 – Project Traffic Assignment12
Figure 9 – 2023 Background Plus Project Peak Hour Traffic Volumes13

LIST OF TABLES

Table 1 – Trip Generation10
Table 2 – Level of Service Definitions14
Table 3 – Peak Hour LOS Analysis15
Table 4 – Left Turn Storage Bay Analysis Results16
Table 5 – Crash Data Summary18

LIST OF APPENDICES

Appendix A Scope of Study
Appendix B Count Data
Appendix C Trip Generation Calculations
Appendix D Key Intersection Peak Hour LOS Calculations
Appendix E Left Turn Storage Calculations
Appendix F Site Plan

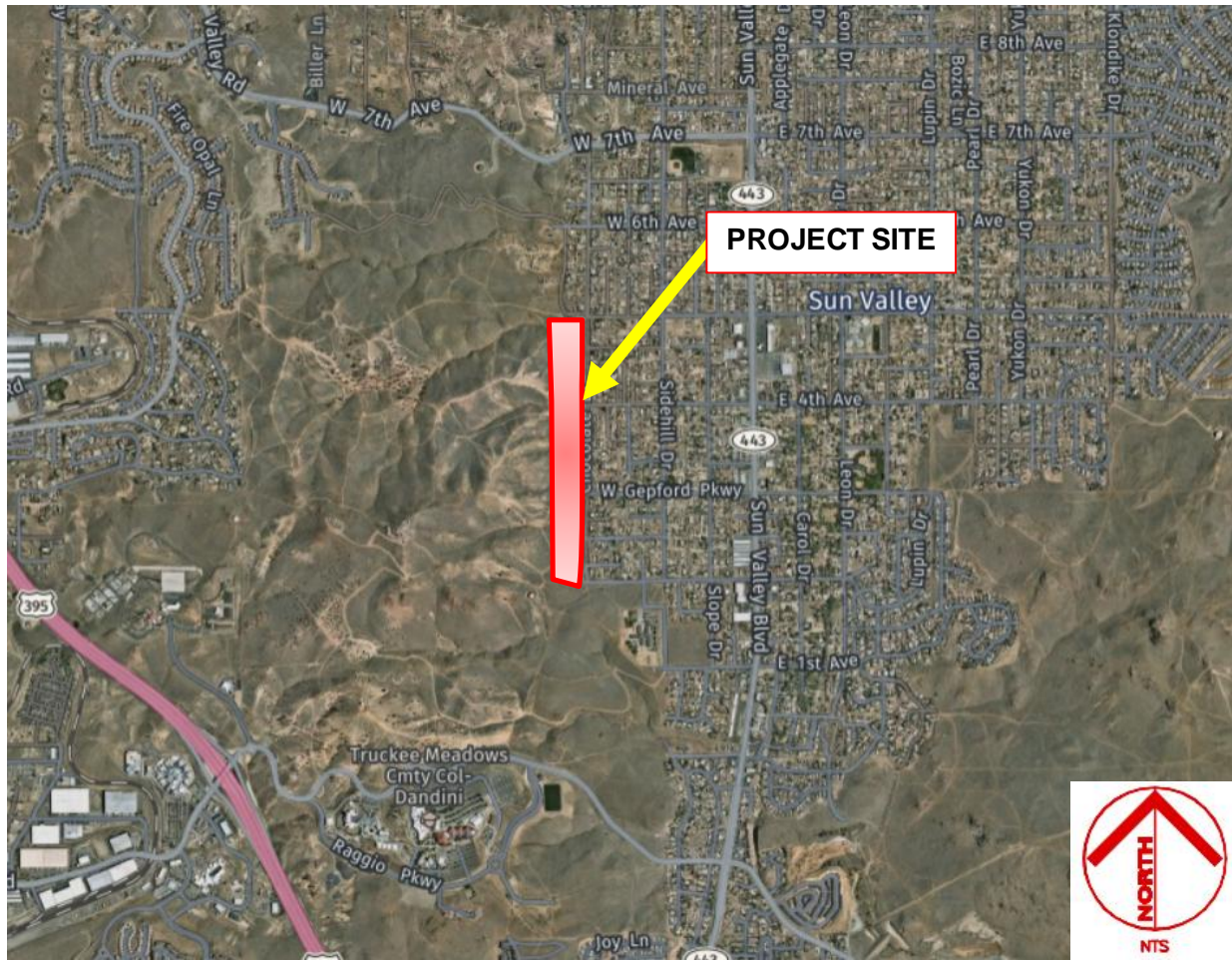
1. INTRODUCTION

Kimley-Horn and Associates, Inc. has been retained by Pedcor Investments, a Limited Liability Company to prepare a traffic impact study for a proposed residential development. The purpose of this traffic impact study is to identify traffic generation characteristics of the proposed development, identify potential traffic related impacts on the local street system, and develop mitigation measures required for the identified impacts.

The proposed residential development is to be generally located west of Chocolate Drive between 5th Street and Brownlee Lane on approximately 45.51 acres within APN 502-250-09 in Reno, Nevada. The site is currently undeveloped. Upon project completion in 2023, the proposed development is anticipated to consist of 240 units of low-rise multifamily housing. A site plan for the proposed development is located in **Appendix F**. The location of the project site with respect to the City of Reno is shown on **Figure 1**.

Regional access to the residential development is expected to be provided via Sun Valley Boulevard. Primary access to the project is given by Chocolate Drive, 5th Avenue, 4th Avenue, and Brownlee Lane. Direct access to the site is planned to be provided by three (3) full access driveways along Chocolate Drive at the intersections of 5th Avenue, 4th Avenue, and Brownlee Lane (#1, #3, and Drive C).

Figure 1 – Vicinity Map



Source: Nearmap

2. EXISTING CONDITIONS

This section of the report details existing conditions near the project site.

2.1. Study Area Intersections

The Washoe County scope of study, dated November 24, 2021, identified four (4) intersections for full analysis:

- Chocolate Drive and 5th Avenue/Drive A (#1)
- Sun Valley Boulevard and 5th Avenue (#2)
- Chocolate Drive and 4th Avenue/Drive B (#3)
- Sun Valley Boulevard and 4th Avenue (#4)

The scope of study from Washoe County is included in **Appendix A**.

2.2. Existing Land Uses

The site of the proposed project is currently undeveloped. The area surrounding the project site is composed primarily of residential, commercial, and warehouse land uses. The location of the project site, study area intersections and existing land uses are shown on **Figure 2**.

2.3. Existing Lane Configurations and Control

Regional access to the residential development is expected to be provided via Sun Valley Boulevard. The intersections of Chocolate Drive/5th Avenue/Drive A (#1) and Chocolate Drive/4th Avenue/Drive B (#3) are currently rural intersections. Chocolate Drive and portions of 5th Avenue and 4th Avenue are also currently unpaved, gravel roadways. Existing speed limits, lane configuration, and traffic control at the time of this study are illustrated in **Figure 3**.

2.4. Existing Turning Movements

AM and PM peak hour turning movement data was field counted on Tuesday, November 30, 2021, for the study area intersections identified in **Section 2.1**. Count data sheets are provided in **Appendix B**. **Figure 4** illustrates the 2021 existing peak hour traffic volumes.



SOURCE: NEARMAP

CHOCOLATE DRIVE STUDY AREA

STUDY INTERSECTIONS

1. 5th Avenue and Chocolate Drive
2. 5th Avenue and Sun Valley Boulevard
3. 4th Avenue and Chocolate Drive
4. 4th Avenue and Sun Valley Boulevard

LEGEND:

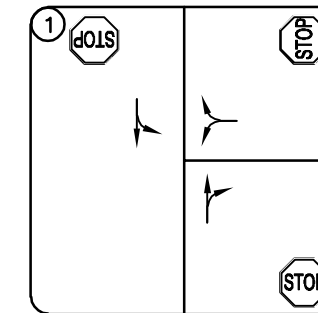
① Study Area Key Intersection

FIGURE 2
Kimley»Horn

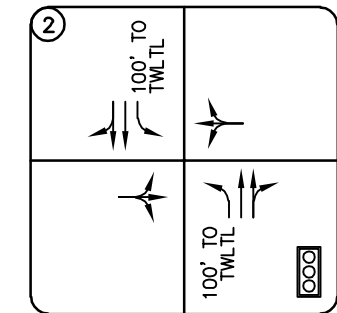


SOURCE: NEARMAP

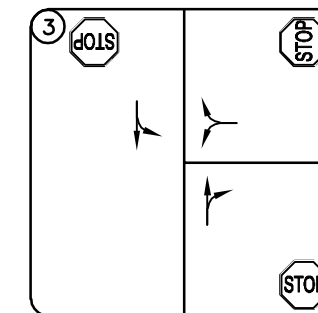
CHOCOLATE DRIVE 2021 EXISTING LANE CONFIGURATION AND CONTROL



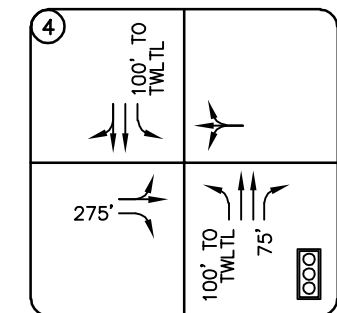
5th Avenue and
Chocolate Drive



5th Avenue and
Sun Valley Boulevard



4th Avenue and
Chocolate Drive



4th Avenue and
Sun Valley Boulevard

LEGEND:

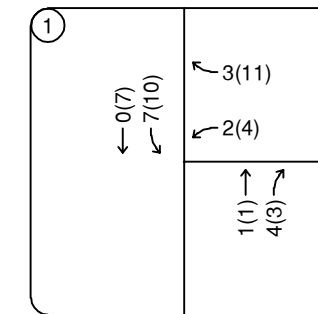
- ① Study Area Key Intersection
- Posted Roadway Speed Limit
- Stop Controlled Approach
- Signalized Intersection



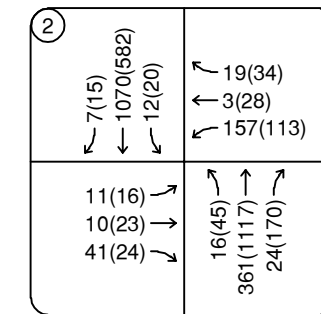


SOURCE: NEARMAP

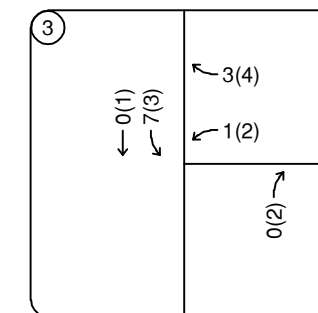
CHOCOLATE DRIVE 2021 EXISTING PEAK HOUR TRAFFIC VOLUMES



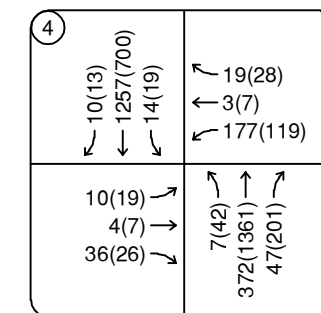
5th Avenue and
Chocolate Drive



5th Avenue and
Sun Valley Boulevard



4th Avenue and
Chocolate Drive



4th Avenue and
Sun Valley Boulevard

LEGEND:

① Study Area Key Intersection

← XX(X) AM(PM) Peak Hour Traffic Volumes

3. FUTURE CONDITIONS

This section of the report details the conditions that are expected in the future at the time the proposed project is anticipated to be completed.

3.1. 2023 Background Lane Configuration and Control

Regional access to the residential development is expected to be provided via Sun Valley Boulevard. Expected speed limits, lane configuration, and traffic control in 2023 are expected remain the same as the 2021 existing speed limits, lane configuration and traffic control illustrated in **Figure 3**.

3.2. 2023 Background Traffic

To accurately determine the impact of project traffic, it is necessary to establish future baseline traffic volumes along roadways in the vicinity of the proposed development site. Evaluating a Nevada Department of Transportation (NDOT) count station in the vicinity of the project site resulted in a 2.6% growth rate. As such, a growth rate of 2.6% was used for this project site.

Existing year (2021) peak hour traffic volumes were grown for two (2) years at a 2.6 percent (2.6%) annual growth rate to obtain future background traffic volumes in 2023 when the proposed development is anticipated to be fully completed. The 2023 background peak hour traffic volumes at the key intersections are illustrated in **Figure 5**.

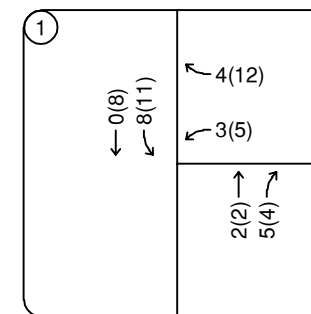
3.3. 2023 Background plus Project Lane Configuration and Control

Direct access to the site is planned to be provided by three (3) full access driveways along Chocolate Drive at the intersections of 5th Avenue, 4th Avenue, and Brownlee Lane (#1, #3, and Drive C). Speed limits, lane configuration, and traffic control at the time of expected project completion in 2023 are expected to remain the same as the 2021 existing speed limits, lane configuration and traffic control, with the addition of the project access drives, as illustrated in **Figure 6**.

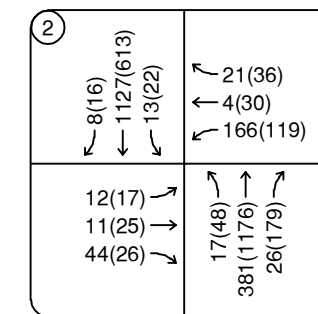


SOURCE: NEARMAP

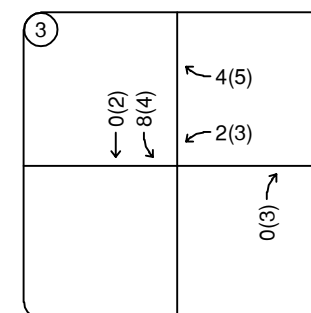
CHOCOLATE DRIVE 2023 BACKGROUND PEAK HOUR TRAFFIC VOLUMES



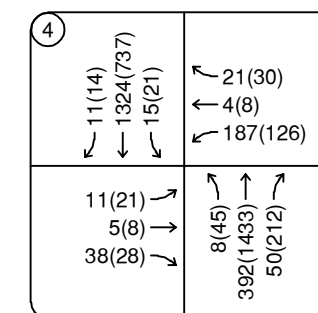
5th Avenue and
Chocolate Drive



5th Avenue and
Sun Valley Boulevard



4th Avenue and
Chocolate Drive



4th Avenue and
Sun Valley Boulevard

LEGEND:

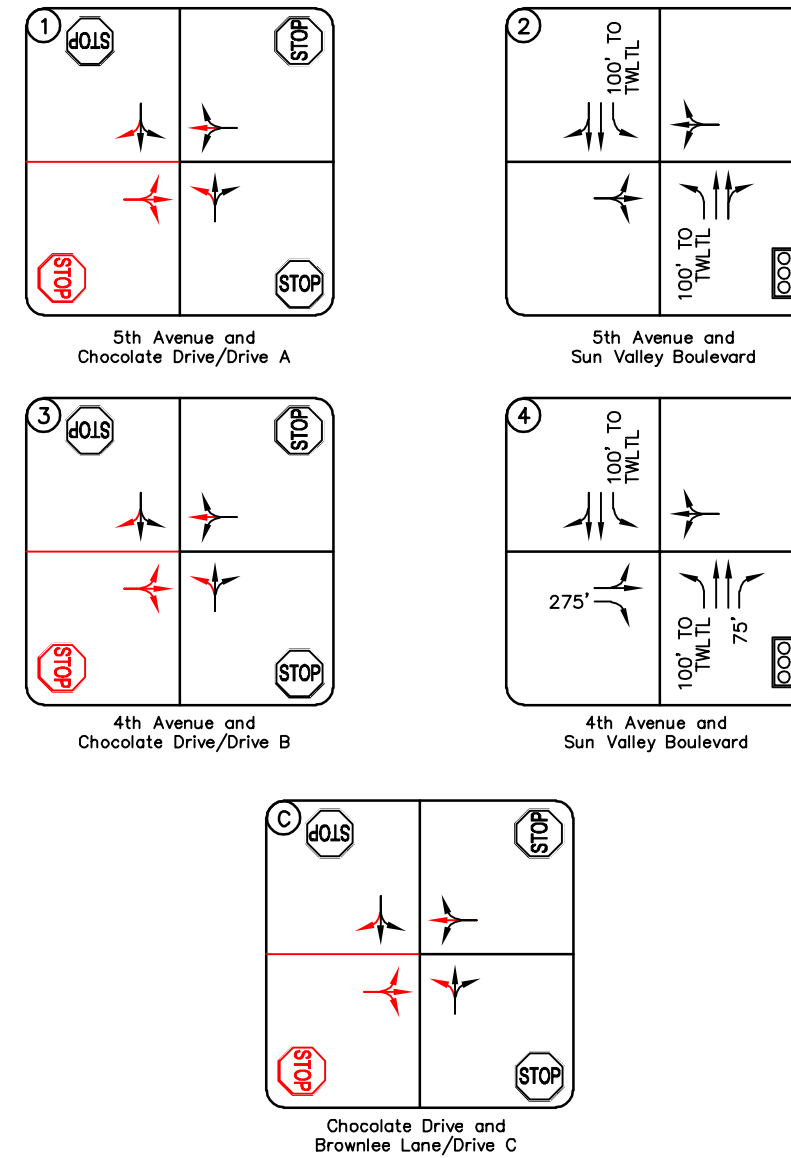
① Study Area Key Intersection

← XX(X) AM(PM) Peak Hour Traffic Volumes



SOURCE: NEARMAP

CHOCOLATE DRIVE 2023 BACKGROUND PLUS PROJECT LANE CONFIGURATION AND CONTROL



LEGEND:

- ① Study Area Key Intersection
- Posted Roadway Speed Limit
- Stop Controlled Approach
- Signalized Intersection
- Project Improvement



3.4. Project Trip Generation

For purposes of estimating the number of new vehicle trips that are anticipated to be generated by the proposed residential development, the Institute of Transportation Engineers (ITE) Trip Generation Manual, 11th Edition (ITE Land Use Code 220 – Multifamily Housing (Low-Rise)) was used. The ITE Trip Generation Manual informational report is a standard reference used by jurisdictions throughout the country and is based on actual trip generation studies performed at numerous locations in areas of various populations.

Table 1 summarizes the estimated project trips. The proposed development is anticipated to generate 96 AM peak hour and 122 PM peak hour trips. Calculations are provided in **Appendix C**.

Table 1 – Trip Generation

ITE Code	Description	Size	AM Peak Hour			PM Peak Hour		
			In	Out	Total	In	Out	Total
220	Multifamily Housing (Low-Rise)	240 Units	23	73	96	77	45	122

3.5. Project Trip Distribution

The study area street network characteristics, including the existing traffic patterns, expected street network, and access to regional facilities were used to determine the distribution of site-generated traffic. The directional distribution of traffic is a means to quantify the percentage of project-generated traffic that approaches the development from a given direction and departs the site in the same or a different direction. **Figure 7** shows the project trip distribution at the study area intersections.

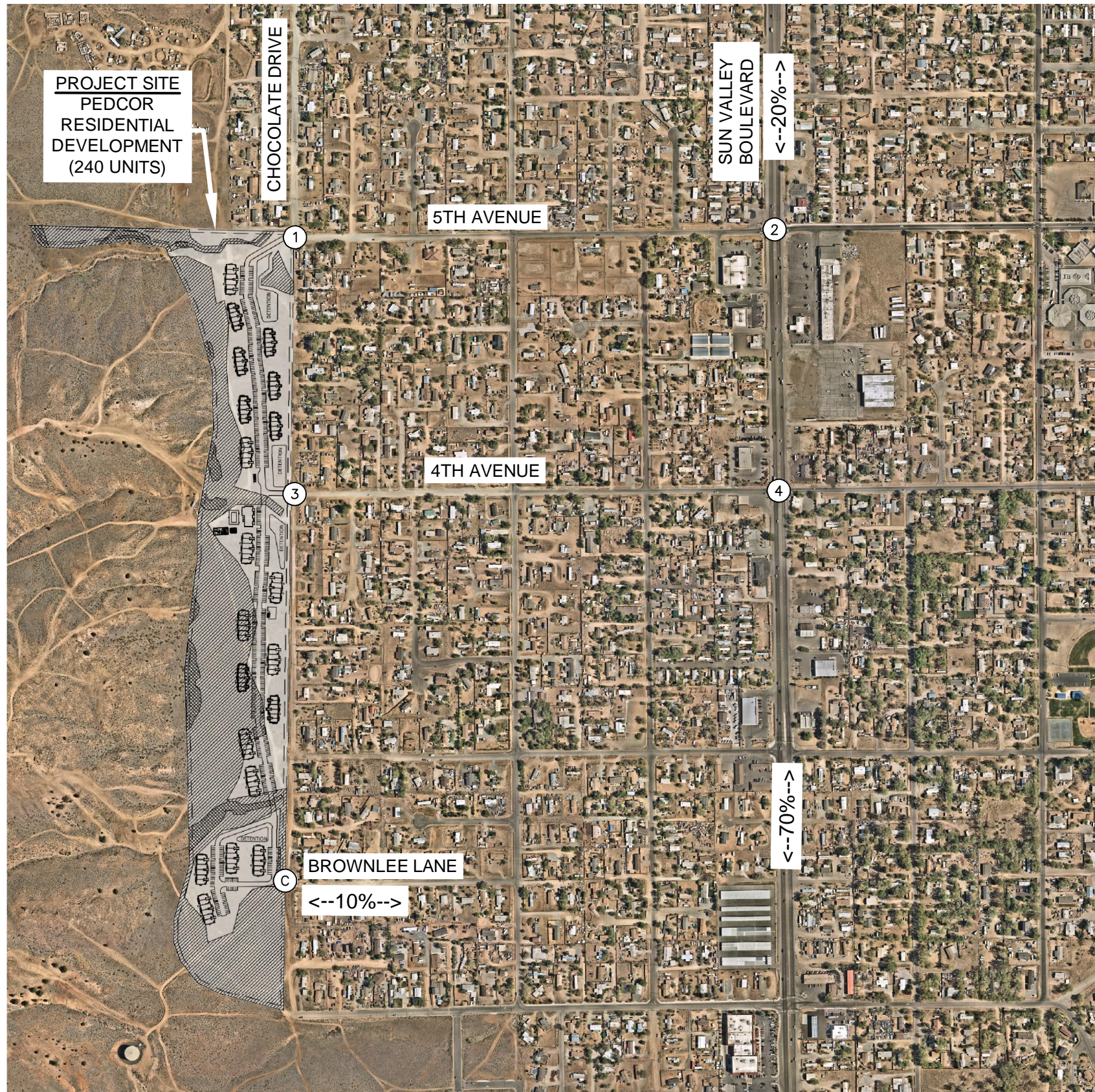
3.6. Traffic Assignment

Assignment of project traffic was obtained by applying the developed trip distribution in **Figure 7** to the estimated traffic generation in **Table 1**. Project traffic assignment is illustrated in **Figure 8** for the study area intersections.

The entering and exiting trips at the project access drives are rounded to the nearest whole number when assigned. Therefore, the number of trips assigned may differ slightly from the total trip generation.

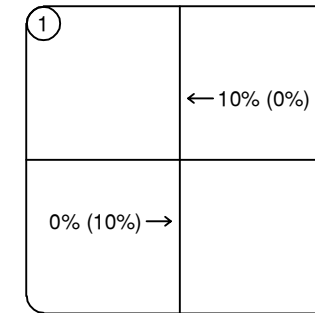
3.7. 2023 Background Plus Project Traffic Volumes

The project generated traffic volumes in **Figure 8** were added to the 2023 background traffic volumes in **Figure 5** to represent estimated traffic conditions for full project development in 2023. The 2023 background plus project peak hour traffic volumes for the study area intersections are illustrated in **Figure 9**.

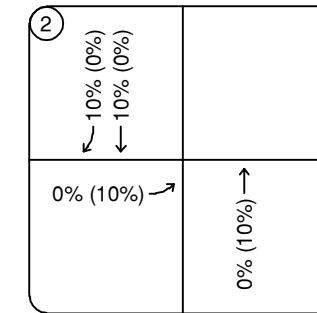


SOURCE: NEARMAP

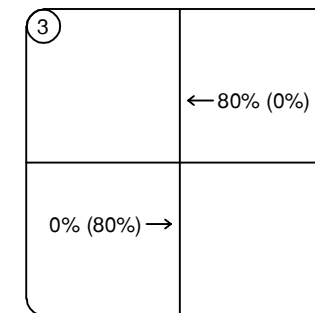
CHOCOLATE DRIVE PROJECT TRIP DISTRIBUTION



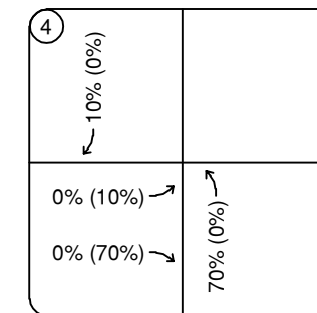
5th Avenue and
Chocolate Drive/Drive A



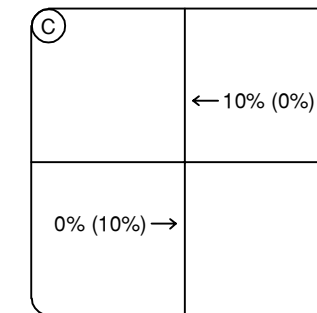
5th Avenue and
Sun Valley Boulevard



4th Avenue and
Chocolate Drive/Drive B



4th Avenue and
Sun Valley Boulevard



Chocolate Drive and
Brownlee Lane/Drive C



LEGEND:

- ① Study Area Key Intersection
- ← XX%(XX%) IN(OUT) Peak Hour Trip Distribution
- <--XX%--> Global Peak Hour Trip Distribution

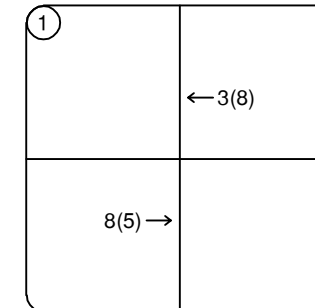
FIGURE 7



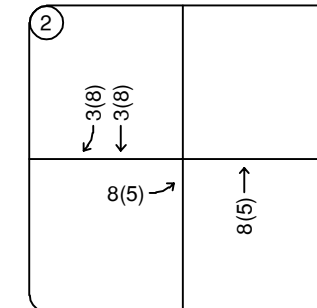


SOURCE: NEARMAP

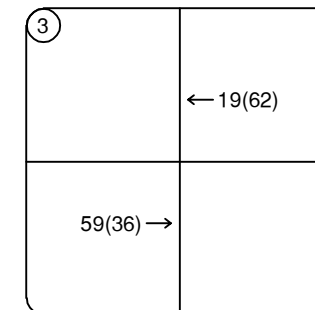
CHOCOLATE DRIVE PROJECT TRAFFIC ASSIGNMENT



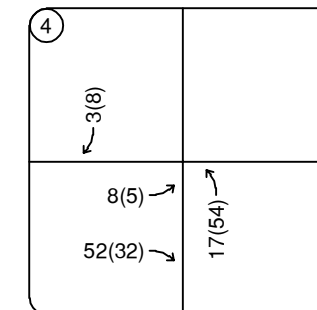
5th Avenue and
Chocolate Drive/Drive A



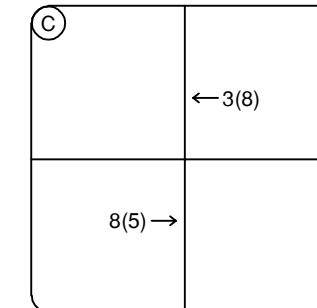
5th Avenue and
Sun Valley Boulevard



4th Avenue and
Chocolate Drive/Drive B



4th Avenue and
Sun Valley Boulevard



Chocolate Drive and
Brownlee Lane/Drive C



LEGEND:

① Study Area Key Intersection

←XX(X) AM(PM) Peak Hour Traffic Volumes

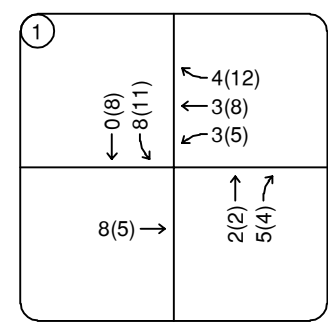
FIGURE 8



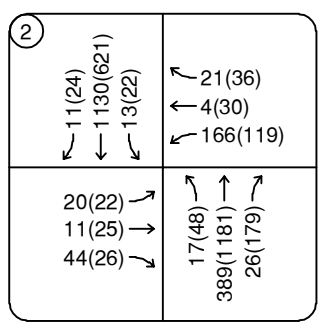


SOURCE: NEARMAP

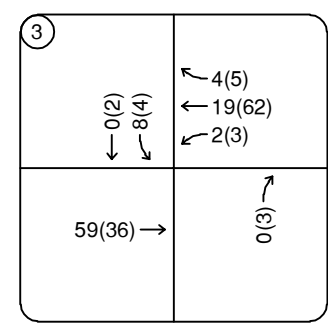
CHOCOLATE DRIVE 2023 BACKGROUND PLUS PROJECT PEAK HOUR TRAFFIC VOLUMES



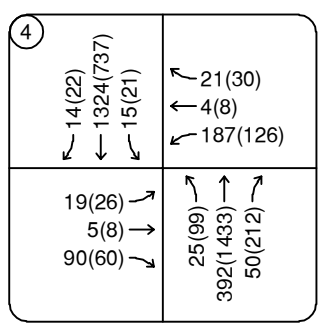
5th Avenue and Chocolate Drive/Drive A



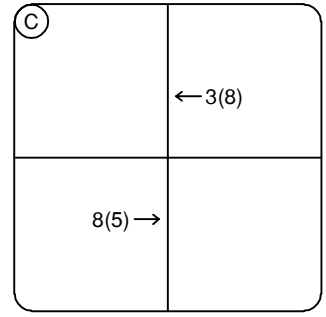
5th Avenue and Sun Valley Boulevard



4th Avenue and Chocolate Drive/Drive B



4th Avenue and Sun Valley Boulevard



Chocolate Drive and Brownlee Lane/Drive C

LEGEND:

① Study Area Key Intersection

$\leftarrow XX(X)$ AM(PM) Peak Hour Traffic Volumes

4. TRAFFIC IMPACT ANALYSIS

Traffic analyses for 2021 existing, 2023 background, and 2023 background plus project scenarios were conducted at the identified key intersections to determine possible existing and/or future deficiencies in the street network.

4.1. Analysis Methodology

Study area intersections were analyzed based on average total delay analysis for signalized and unsignalized intersections presented in the Transportation Research Board’s “Highway Capacity Manual” 6th Edition (HCM 6). Under the unsignalized analysis, the level of service (LOS) for a two-way stop-controlled intersection is determined by the computed or measured control delay and is defined for each minor movement. LOS for a two-way stop-controlled intersection is not defined for the intersection as a whole. LOS for a signalized or four-way stop controlled intersection is defined for the intersection as a whole. **Table 2** shows the definition of LOS for intersections.

Table 2 – Level of Service Definitions

Level of Service	Signalized Intersection Average Total Delay (sec/veh)	Unsignalized Intersection Average Total Delay (sec/veh)
A	≤10	10
B	>10 and ≤20	>10 and ≤15
C	>20 and ≤35	>15 and ≤25
D	>35 and ≤55	>25 and ≤35
E	>55 and ≤80	>35 and ≤50
F	>80	>50

Definitions provided from the Highway Capacity Manual, 6th Edition, Transportation Research Board.

Synchro 11 was used to analyze the study area intersections and driveways for LOS. Synchro is an interactive computer program that enables planners and engineers to forecast the traffic impacts of new developments; conduct area-wide traffic forecasting studies; test different mitigation measures, and compare different traffic scenarios. Synchro 11 utilizes HCM 6 methodology to analyze intersection delay and LOS.

4.2. Peak Hour Operational Analysis

Calculations for the LOS at the key intersections and project access drives are provided in **Appendix D**. The 2021 existing and 2023 background analyses are based on the lane geometry and intersection control shown in **Figure 3**, while the 2023 background plus project analyses are based on the lane configuration and intersection control shown in **Figure 6**. It should be noted that the signalized intersections were analyzed using optimized cycle lengths and splits. The results of the peak hour LOS analysis for existing, 2023 background, and 2023 background plus project scenarios are summarized in **Table 4**. The key intersections and project access drives are expected to operate at acceptable LOS under 2021 existing, 2023 background, and 2023 background plus project scenarios.

Table 3 – Peak Hour LOS Analysis

Intersection	2021 Existing		2023 Background		2023 Background plus Project	
	AM	PM	AM	PM	AM	PM
	Delay (s) (LOS)	Delay (s) (LOS)	Delay (s) (LOS)	Delay (s) (LOS)	Delay (s) (LOS)	Delay (s) (LOS)
Chocolate Drive and 5th Avenue/Drive A (#1) <i>All-Way Stop Controlled</i>	6.9 (A)	7.0 (A)	6.9 (A)	7.0 (A)	7.0 (A)	7.1 (A)
Sun Valley Boulevard and 5th Avenue (#2) <i>Signalized</i>	7.6 (A)	7.1 (A)	8.1 (A)	7.7 (A)	8.1 (A)	7.7 (A)
Chocolate Drive and 4th Avenue/Drive B (#3) <i>All-Way Stop Controlled</i>	7.0 (A)	6.7 (A)	7.0 (A)	6.8 (A)	7.3 (A)	7.3 (A)
Sun Valley Boulevard and 4th Avenue (#4) <i>Signalized</i>	11.2 (B)	7.4 (A)	12.4 (B)	8.0 (A)	13.5 (B)	8.4 (A)
Chocolate Drive and Brownlee Lane/Drive C (#5) <i>All-Way Stop Controlled</i>	-	-	-	-	7.0 (A)	7.0 (A)

4.3. Left Turn Storage Bay Analysis

Left turn storage bay analysis was conducted for signalized exclusive left turn movements anticipated to be impacted by the addition of project traffic at the study area intersections (Intersection #4). The analysis was conducted using the Synchro 11 software to obtain 95th percentile queues. The left turn storage bay calculations include AM and PM peak volumes. The length of the desired storage per lane was taken to be the maximum of the two peak hours. Calculations are provided in **Appendix E**. The calculated required left turn storage lengths in the existing, 2023 background, and 2023 background plus project conditions are summarized in **Table 4**. As evaluated, the existing signalized left turn storage bays were found to have adequate storage length to serve 2021 existing, 2023 background, and 2023 background plus project traffic volumes.

Table 4 – Left Turn Storage Bay Analysis Results

Intersection Left Turn Movement	Control and Storage Length	Desired Storage		
		2021 Existing	2023 Background	2023 Background Plus Project
Sun Valley Boulevard and 4 th Avenue (#4) Northbound Left	Signalized 100'	21'	22'	46'

5. BICYCLE/PEDESTRIAN/TRANSIT FACILITIES

This section of the report details bicycle and pedestrian access to local attractions.

5.1. Local Bicycle/Pedestrian Access and School Walking Routes

The nearest pedestrian/bicycle attractions are located along Sun Valley Boulevard, about a half mile east of the project site. Pedestrian and bicycle facilities are minimal in the vicinity of the project site. Dedicated bicycle lanes are provided along Sun Valley Boulevard. Through the residential community, low-volume and low-speed streets are bicycle-friendly, however, portions of 4th Avenue and 5th Avenue, and Chocolate Drive are currently unpaved.

5.2. Public Transportation

Washoe County provides public transportation services through the Regional Transportation Commission of Washoe County, Nevada (RTC Washoe). RTC Washoe currently operates Bus Route 5 along Sun Valley Road. The nearest bus stops are located approximately a half mile from the project site near the intersections of Sun Valley Boulevard and 5th Street (#2) and Sun Valley Boulevard and 4th Street (#4).

6. CRASH DATA SUMMARY

Crash data was requested for the four (4) existing study intersections from the NDOT Safety Engineering Division for the most recent three-year period (January 1, 2017 – December 31, 2019). The crash data for the study intersections is summarized in **Table 5**. The intersection crashes include those crashes on both the major and minor streets of the key intersections during the three-year analysis period. No crashes were reported at the intersection of Chocolate Drive and 4th Avenue/Drive B (#3).

Table 5 – Crash Data Summary

Int. Num.	Intersection Name	Total Crashes	Property Damage Only	Injury	Fatal
1	Chocolate Drive and 5 th Avenue/Drive A	1	1 (100%)	0 (0%)	0 (0%)
2	Sun Valley Boulevard and 5 th Avenue	11	8 (73%)	3 (27%)	0 (0%)
4	Sun Valley Boulevard and 4 th Avenue	13	8 (62%)	5 (38%)	0 (0%)
	Total	25	17 (68%)	8 (32%)	0 (0%)

A total of 25 crashes were recorded at the four (4) intersections in the most recent three-year period. Those 25 crashes resulted in 8 injury crashes (32%) and 17 property damage only crashes (68%). No fatal crashes were reported at the study intersections.

7. CONCLUSIONS/RECOMMENDATIONS

The project traffic of the Chocolate Drive development is not anticipated to have significant impacts to the key study intersections. The proposed development is anticipated to generate traffic volumes resulting in the following recommendations:

- The developer is recommended to install R1-1 “STOP” signs with appropriate pavement markings for the egressing access drive approaches along Chocolate Drive per current MUTCD Guidelines.
- All on-site and off-site signing and striping improvements should be incorporated into the Civil Drawings and conform to the current MUTCD, as applicable.
- The project is not anticipated to have significant impacts to the key study intersections and the surrounding street network.

APPENDIX A
SCOPE OF STUDY

Roberts, Emily

From: Giacomini, David
Sent: Tuesday, January 4, 2022 12:54 PM
To: Roberts, Emily
Subject: FW: Chocolate Drive Multi-Family Development Traffic Scope

From: Fink, Mitchell <MFink@washoecounty.gov>
Sent: Wednesday, November 24, 2021 1:55 PM
To: Giacomini, David <david.giacomini@kimley-horn.com>
Cc: Waechter, Chris <Chris.Waechter@kimley-horn.com>
Subject: RE: Chocolate Drive Multi-Family Development Traffic Scope

Hi David,

We would like to see the driveway access on Brownlee Lane analyzed as part of the Traffic Study and not the adjoining street.

Thanks.



Mitchell Fink, P.E. | Licensed Engineer
Community Services Department | Engineering & Capital Projects Division
mfink@washoecounty.gov | Office: 775.328.2050
1001 E. 9th Street, Reno, NV 89512



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email: csdallstars@washoecounty.us*

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From: Giacomini, David <david.giacomini@kimley-horn.com>
Sent: Wednesday, November 24, 2021 12:34 PM
To: Fink, Mitchell <MFink@washoecounty.gov>
Cc: Waechter, Chris <Chris.Waechter@kimley-horn.com>
Subject: RE: Chocolate Drive Multi-Family Development Traffic Scope

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Mitch – I should clarify that Brownlee does not continue through to Sun Valley Boulevard.

David J Giacomini, P.E., PTOE, RSP₁
Kimley-Horn | 7900 Rancharrah Parkway, Suite 100, Reno, NV 89511
Direct: (775) 200-1981 | Mobile: (651) 497-8220

From: Giacomini, David
Sent: Wednesday, November 24, 2021 12:02 PM
To: Fink, Mitchell <MFink@washoecounty.gov>

Cc: Waechter, Chris <Chris.Waechter@kimley-horn.com>
Subject: RE: Chocolate Drive Multi-Family Development Traffic Scope

Mitch,

Thank you for the response. I forgot to follow-up with some clarification that there is also an access drive located at Brownlee Lane. It is harder to see due to the grading hatching on the site plan. Would you like to see that intersection as well as Brownlee and Sun Valley included in the traffic study as well? Six intersections seems like a lot of intersections for a project of this size, so I will defer to you.

Thank you and have a good Thanksgiving,

David J Giacomini, P.E., PTOE, RSP₁
Kimley-Horn | 7900 Rancharrah Parkway, Suite 100, Reno, NV 89511
Direct: (775) 200-1981 | Mobile: (651) 497-8220

From: Fink, Mitchell <MFink@washoecounty.gov>
Sent: Friday, November 12, 2021 11:11 AM
To: Giacomini, David <david.giacomini@kimley-horn.com>
Cc: Waechter, Chris <Chris.Waechter@kimley-horn.com>
Subject: RE: Chocolate Drive Multi-Family Development Traffic Scope

Hi David,

Washoe County's threshold for the requirement of a Traffic Impact Report (TIR) is if the development project will generate 80 or more weekday peak hour trips. For this project a TIR will be required.

Per the attached site map for the Chocolate Drive Project the driveway intersections with W 4th St. and W 5th St. will need to be evaluated as well as these roadway intersections with Sun Valley Blvd. If there are any driveway location changes to the attached site plan those driveway intersections and the corresponding roadway intersections with Sun Valley Blvd. will have to be analyzed as well.

I also attached RTC's Traffic Report Guidelines for your reference to help you with the TIR scope and requirements that is acceptable to Washoe County as well.

If you have any questions please let me know.

Thank you.



Mitchell Fink, P.E. | Licensed Engineer
Community Services Department | Engineering & Capital Projects Division
mfink@washoecounty.gov | Office: 775.328.2050
1001 E. 9th Street, Reno, NV 89512



**Have some kudos to share about a Community Services Department employee or experience?
email: csdallstars@washoecounty.us*

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From: Giacomini, David <david.giacomini@kimley-horn.com>
Sent: Thursday, November 11, 2021 8:02 AM
To: Fink, Mitchell <MFink@washoecounty.gov>

Cc: Waechter, Chris <Chris.Waechter@kimley-horn.com>
Subject: Chocolate Drive Multi-Family Development Traffic Scope

[NOTICE: This message originated outside of Washoe County -- DO NOT CLICK on links or open attachments unless you are sure the content is safe.]

Mitch,

Thank you for the call yesterday. I have attached a copy of the site plan for our client's project along Chocolate Drive. I am seeking a scope for a traffic study for this project. The project is tentatively 240 multi-family units. Please let me know if you would like me to propose a set of intersections and count hours for existing conditions.

Thank you,

David J Giacomini, P.E., PTOE, RSP₁

Kimley-Horn | 7900 Rancharrah Parkway, Suite 100, Reno, NV 89511

Direct: (775) 200-1981 | Mobile: (651) 497-8220

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APPENDIX B
COUNT DATA

Chocolate Drive & West 5th Avenue - TMC

Tue Nov 30, 2021

Full Length (7 AM-9 AM, 4 PM-6 PM)

All Classes (Lights, Articulated Trucks, Buses and Single-Unit Trucks)

All Movements

ID: 904390, Location: 39.592728, -119.789247

Provided by: Kimley-Horn and Associates, Inc.
 767 Eustis Street, Suite 100, Saint Paul, MN, 55114, US

Leg Direction	Chocolate Drive Northbound				Chocolate Drive Southbound				W 5th Ave Westbound				Int
	R	T	U	App	T	L	U	App	R	L	U	App	
2021-11-30 7:00AM	0	0	0	0	0	0	1	1	0	0	0	0	1
7:15AM	2	0	0	2	0	0	0	0	1	0	0	0	3
7:30AM	0	1	0	1	0	3	0	3	0	0	0	0	4
7:45AM	1	0	0	1	0	2	0	2	0	2	0	0	5
Hourly Total	3	1	0	4	0	5	1	6	1	2	0	3	13
8:00AM	1	0	0	1	0	2	0	2	2	0	0	0	5
8:15AM	1	0	0	1	0	1	0	1	1	0	0	0	3
8:30AM	0	0	0	0	0	0	0	0	1	1	0	0	2
8:45AM	2	0	0	2	0	1	0	1	0	0	0	0	3
Hourly Total	4	0	0	4	0	4	0	4	4	1	0	5	13
4:00PM	2	0	0	2	1	2	0	3	2	1	0	3	8
4:15PM	0	1	0	1	0	2	0	2	2	2	0	4	7
4:30PM	1	0	0	1	4	4	0	8	5	0	0	5	14
4:45PM	0	0	0	0	2	2	0	4	2	1	0	3	7
Hourly Total	3	1	0	4	7	10	0	17	11	4	0	15	36
5:00PM	1	0	0	1	1	1	0	2	1	0	0	1	4
5:15PM	0	0	0	0	0	2	0	2	2	1	1	4	6
5:30PM	0	0	0	0	0	1	0	1	3	1	0	4	5
5:45PM	1	0	0	1	0	1	0	1	0	2	0	2	4
Hourly Total	2	0	0	2	1	5	0	6	6	4	1	11	19
Total	12	2	0	14	8	24	1	33	22	11	1	34	81
% Approach	85.7%	14.3%	0%	-	24.2%	72.7%	3.0%	-	64.7%	32.4%	2.9%	-	-
% Total	14.8%	2.5%	0%	17.3%	9.9%	29.6%	1.2%	40.7%	27.2%	13.6%	1.2%	42.0%	-
Lights	12	2	0	14	7	24	1	32	22	11	1	34	80
% Lights	100%	100%	0%	100%	87.5%	100%	100%	97.0%	100%	100%	100%	100%	98.8%
Articulated Trucks	0	0	0	0	0	0	0	0	0	0	0	0	0
% Articulated Trucks	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Buses and Single-Unit Trucks	0	0	0	0	1	0	0	1	0	0	0	0	1
% Buses and Single-Unit Trucks	0%	0%	0%	0%	12.5%	0%	0%	3.0%	0%	0%	0%	0%	1.2%

*L: Left, R: Right, T: Thru, U: U-Turn

Chocolate Drive & West 5th Avenue - TMC

Tue Nov 30, 2021

Full Length (7 AM-9 AM, 4 PM-6 PM)

All Classes (Lights, Articulated Trucks, Buses and Single-Unit Trucks)

All Movements

ID: 904390, Location: 39.592728, -119.789247

Provided by: Kimley-Horn and Associates, Inc.
767 Eustis Street, Suite 100, Saint Paul, MN, 55114, US

[N] Chocolate Drive

Total: 58

In: 33

Out: 25

8

24

1



22

11

1

Out: 37 In: 34

Total: 71

[E] W 5th Ave

Out: 19

In: 14

Total: 33

[S] Chocolate Drive

Chocolate Drive & West 5th Avenue - TMC

Tue Nov 30, 2021

AM Peak (7:15 AM - 8:15 AM)

All Classes (Lights, Articulated Trucks, Buses and Single-Unit Trucks)

All Movements

ID: 904390, Location: 39.592728, -119.789247

Provided by: Kimley-Horn and Associates, Inc.
767 Eustis Street, Suite 100, Saint Paul, MN, 55114, US

Leg Direction	Chocolate Drive Northbound				Chocolate Drive Southbound				W 5th Ave Westbound				
Time	R	T	U	App	T	L	U	App	R	L	U	App	Int
2021-11-30 7:15AM	2	0	0	2	0	0	0	0	1	0	0	1	3
7:30AM	0	1	0	1	0	3	0	3	0	0	0	0	4
7:45AM	1	0	0	1	0	2	0	2	0	2	0	2	5
8:00AM	1	0	0	1	0	2	0	2	2	0	0	2	5
Total	4	1	0	5	0	7	0	7	3	2	0	5	17
% Approach	80.0%	20.0%	0%	-	0%	100%	0%	-	60.0%	40.0%	0%	-	-
% Total	23.5%	5.9%	0%	29.4%	0%	41.2%	0%	41.2%	17.6%	11.8%	0%	29.4%	-
PHF	0.500	0.250	-	0.625	-	0.583	-	0.583	0.375	0.250	-	0.625	0.850
Lights	4	1	0	5	0	7	0	7	3	2	0	5	17
% Lights	100%	100%	0%	100%	0%	100%	0%	100%	100%	100%	0%	100%	100%
Articulated Trucks	0	0	0	0	0	0	0	0	0	0	0	0	0
% Articulated Trucks	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Buses and Single-Unit Trucks	0	0	0	0	0	0	0	0	0	0	0	0	0
% Buses and Single-Unit Trucks	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%

* L: Left, R: Right, T: Thru, U: U-Turn

Chocolate Drive & West 5th Avenue - TMC

Tue Nov 30, 2021

AM Peak (7:15 AM - 8:15 AM)

All Classes (Lights, Articulated Trucks, Buses and Single-Unit Trucks)

All Movements

ID: 904390, Location: 39.592728, -119.789247

Provided by: Kimley-Horn and Associates, Inc.
767 Eustis Street, Suite 100, Saint Paul, MN, 55114, US

[N] Chocolate Drive

Total: 11
In: 7 Out: 4

7



2 3

Out: 11 In: 5
Total: 16
[E] W 5th Ave

Out: 2 In: 5
Total: 7

[S] Chocolate Drive

Chocolate Drive & West 5th Avenue - TMC

Tue Nov 30, 2021

PM Peak (4 PM - 5 PM) - Overall Peak Hour

All Classes (Lights, Articulated Trucks, Buses and Single-Unit Trucks)

All Movements

ID: 904390, Location: 39.592728, -119.789247

Provided by: Kimley-Horn and Associates, Inc.
767 Eustis Street, Suite 100, Saint Paul, MN, 55114, US

Leg Direction	Chocolate Drive Northbound				Chocolate Drive Southbound				W 5th Ave Westbound				Int
	R	T	U	App	T	L	U	App	R	L	U	App	
Time													
2021-11-30 4:00PM	2	0	0	2	1	2	0	3	2	1	0	3	8
4:15PM	0	1	0	1	0	2	0	2	2	2	0	4	7
4:30PM	1	0	0	1	4	4	0	8	5	0	0	5	14
4:45PM	0	0	0	0	2	2	0	4	2	1	0	3	7
Total	3	1	0	4	7	10	0	17	11	4	0	15	36
% Approach	75.0%	25.0%	0%	-	41.2%	58.8%	0%	-	73.3%	26.7%	0%	-	-
% Total	8.3%	2.8%	0%	11.1%	19.4%	27.8%	0%	47.2%	30.6%	11.1%	0%	41.7%	-
PHF	0.375	0.250	-	0.500	0.438	0.625	-	0.531	0.550	0.500	-	0.750	0.643
Lights	3	1	0	4	6	10	0	16	11	4	0	15	35
% Lights	100%	100%	0%	100%	85.7%	100%	0%	94.1%	100%	100%	0%	100%	97.2%
Articulated Trucks	0	0	0	0	0	0	0	0	0	0	0	0	0
% Articulated Trucks	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Buses and Single-Unit Trucks	0	0	0	0	1	0	0	1	0	0	0	0	1
% Buses and Single-Unit Trucks	0%	0%	0%	0%	14.3%	0%	0%	5.9%	0%	0%	0%	0%	2.8%

* L: Left, R: Right, T: Thru, U: U-Turn

Chocolate Drive & West 5th Avenue - TMC

Tue Nov 30, 2021

PM Peak (4 PM - 5 PM) - Overall Peak Hour

All Classes (Lights, Articulated Trucks, Buses and Single-Unit Trucks)

All Movements

ID: 904390, Location: 39.592728, -119.789247

Provided by: Kimley-Horn and Associates, Inc.
767 Eustis Street, Suite 100, Saint Paul, MN, 55114, US

[N] Chocolate Drive

Total: 29

In: 17 Out: 12

7 10



11 In: 15
4 Total: 28
Out: 13 [E] W 5th Ave

Out: 11 In: 4
Total: 15

[S] Chocolate Drive

Sun Valley Boulevard & West 5th Avenue - TMC

Tue Nov 30, 2021

Full Length (7 AM-9 AM, 4 PM-6 PM)

All Classes (Lights, Articulated Trucks, Buses and Single-Unit Trucks)

All Movements

ID: 904392, Location: 39.59269, -119.780577

Provided by: Kimley-Horn and Associates, Inc.
767 Eustis Street, Suite 100, Saint Paul, MN, 55114, US

Leg Direction	Sun Valley Blvd Northbound						Sun Valley Blvd Southbound					
	R	T	L	U	RR	App	R	T	L	U	RR	App
2021-11-30 7:00AM	4	107	3	0	4	118	1	271	5	0	1	278
7:15AM	3	94	5	0	2	104	3	304	4	0	0	311
7:30AM	4	85	6	0	0	95	1	270	1	0	0	272
7:45AM	4	75	2	0	3	84	1	225	1	1	0	228
Hourly Total	15	361	16	0	9	401	6	1070	11	1	1	1089
8:00AM	9	93	2	0	1	105	0	176	5	0	0	181
8:15AM	4	62	3	0	2	71	1	169	4	0	0	174
8:30AM	7	86	5	0	1	99	3	174	3	0	1	181
8:45AM	7	64	4	0	2	77	1	184	0	0	0	185
Hourly Total	27	305	14	0	6	352	5	703	12	0	1	721
4:00PM	33	291	12	0	4	340	3	147	7	0	2	159
4:15PM	26	260	9	0	3	298	3	129	5	0	1	138
4:30PM	29	256	13	0	1	299	2	147	9	0	0	158
4:45PM	31	267	9	0	6	313	3	163	5	0	1	172
Hourly Total	119	1074	43	0	14	1250	11	586	26	0	4	627
5:00PM	35	267	6	0	7	315	3	146	4	0	0	153
5:15PM	31	307	14	0	8	360	4	138	6	0	0	148
5:30PM	47	276	16	0	5	344	3	135	5	0	1	144
5:45PM	32	270	6	0	11	319	2	125	6	1	0	134
Hourly Total	145	1120	42	0	31	1338	12	544	21	1	1	579
Total	306	2860	115	0	60	3341	34	2903	70	2	7	3016
% Approach	9.2%	85.6%	3.4%	0%	1.8%	-	1.1%	96.3%	2.3%	0.1%	0.2%	-
% Total	4.2%	39.4%	1.6%	0%	0.8%	46.1%	0.5%	40.0%	1.0%	0%	0.1%	41.6%
Lights	304	2807	115	0	60	3286	32	2850	70	2	7	2961
% Lights	99.3%	98.1%	100%	0%	100%	98.4%	94.1%	98.2%	100%	100%	100%	98.2%
Articulated Trucks	1	10	0	0	0	11	0	10	0	0	0	10
% Articulated Trucks	0.3%	0.3%	0%	0%	0%	0.3%	0%	0.3%	0%	0%	0%	0.3%
Buses and Single-Unit Trucks	1	43	0	0	0	44	2	43	0	0	0	45
% Buses and Single-Unit Trucks	0.3%	1.5%	0%	0%	0%	1.3%	5.9%	1.5%	0%	0%	0%	1.5%

*L: Left, R: Right, RR: Right on red, T: Thru, U: U-Turn

Sun Valley Boulevard & West 5th Avenue - TMC

Tue Nov 30, 2021

Full Length (7 AM-9 AM, 4 PM-6 PM)

All Classes (Lights, Articulated Trucks, Buses and Single-Unit Trucks)

All Movements

ID: 904392, Location: 39.59269, -119.780577

Provided by: Kimley-Horn and Associates, Inc.
767 Eustis Street, Suite 100, Saint Paul, MN, 55114, US

Leg Direction	W 5th Ave Eastbound						E 5th Ave Westbound						
Time	R	T	L	U	RR	App	R	T	L	U	RR	App	Int
2021-11-30 7:00AM	4	4	3	0	7	18	2	0	32	0	2	36	450
7:15AM	8	4	3	0	7	22	7	0	53	0	2	62	499
7:30AM	6	2	4	0	3	15	3	3	41	0	1	48	430
7:45AM	3	0	1	0	3	7	2	0	31	0	0	33	352
Hourly Total	21	10	11	0	20	62	14	3	157	0	5	179	1731
8:00AM	1	1	4	0	2	8	0	0	25	0	0	25	319
8:15AM	3	2	1	0	4	10	3	0	29	0	2	34	289
8:30AM	4	2	1	0	2	9	1	3	25	0	2	31	320
8:45AM	5	1	6	0	3	15	3	1	25	0	2	31	308
Hourly Total	13	6	12	0	11	42	7	4	104	0	6	121	1236
4:00PM	0	3	5	0	2	10	4	2	37	0	2	45	554
4:15PM	3	4	7	0	8	22	8	6	41	0	1	56	514
4:30PM	1	5	1	0	3	10	1	4	26	0	3	34	501
4:45PM	5	6	4	0	4	19	8	7	28	0	1	44	548
Hourly Total	9	18	17	0	17	61	21	19	132	0	7	179	2117
5:00PM	2	7	5	0	2	16	9	10	34	0	2	55	539
5:15PM	0	7	5	0	6	18	2	7	31	0	2	42	568
5:30PM	2	3	2	0	3	10	6	4	20	0	4	34	532
5:45PM	1	7	8	0	5	21	5	4	45	0	1	55	529
Hourly Total	5	24	20	0	16	65	22	25	130	0	9	186	2168
Total	48	58	60	0	64	230	64	51	523	0	27	665	7252
% Approach	20.9%	25.2%	26.1%	0%	27.8%	-	9.6%	7.7%	78.6%	0%	4.1%	-	-
% Total	0.7%	0.8%	0.8%	0%	0.9%	3.2%	0.9%	0.7%	7.2%	0%	0.4%	9.2%	-
Lights	48	55	57	0	63	223	63	50	516	0	26	655	7125
% Lights	100%	94.8%	95.0%	0%	98.4%	97.0%	98.4%	98.0%	98.7%	0%	96.3%	98.5%	98.2%
Articulated Trucks	0	0	0	0	0	0	0	0	0	0	0	0	21
% Articulated Trucks	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0.3%
Buses and Single-Unit Trucks	0	3	3	0	1	7	1	1	7	0	1	10	106
% Buses and Single-Unit Trucks	0%	5.2%	5.0%	0%	1.6%	3.0%	1.6%	2.0%	1.3%	0%	3.7%	1.5%	1.5%

*L: Left, R: Right, RR: Right on red, T: Thru, U: U-Turn

Sun Valley Boulevard & West 5th Avenue - TMC

Tue Nov 30, 2021

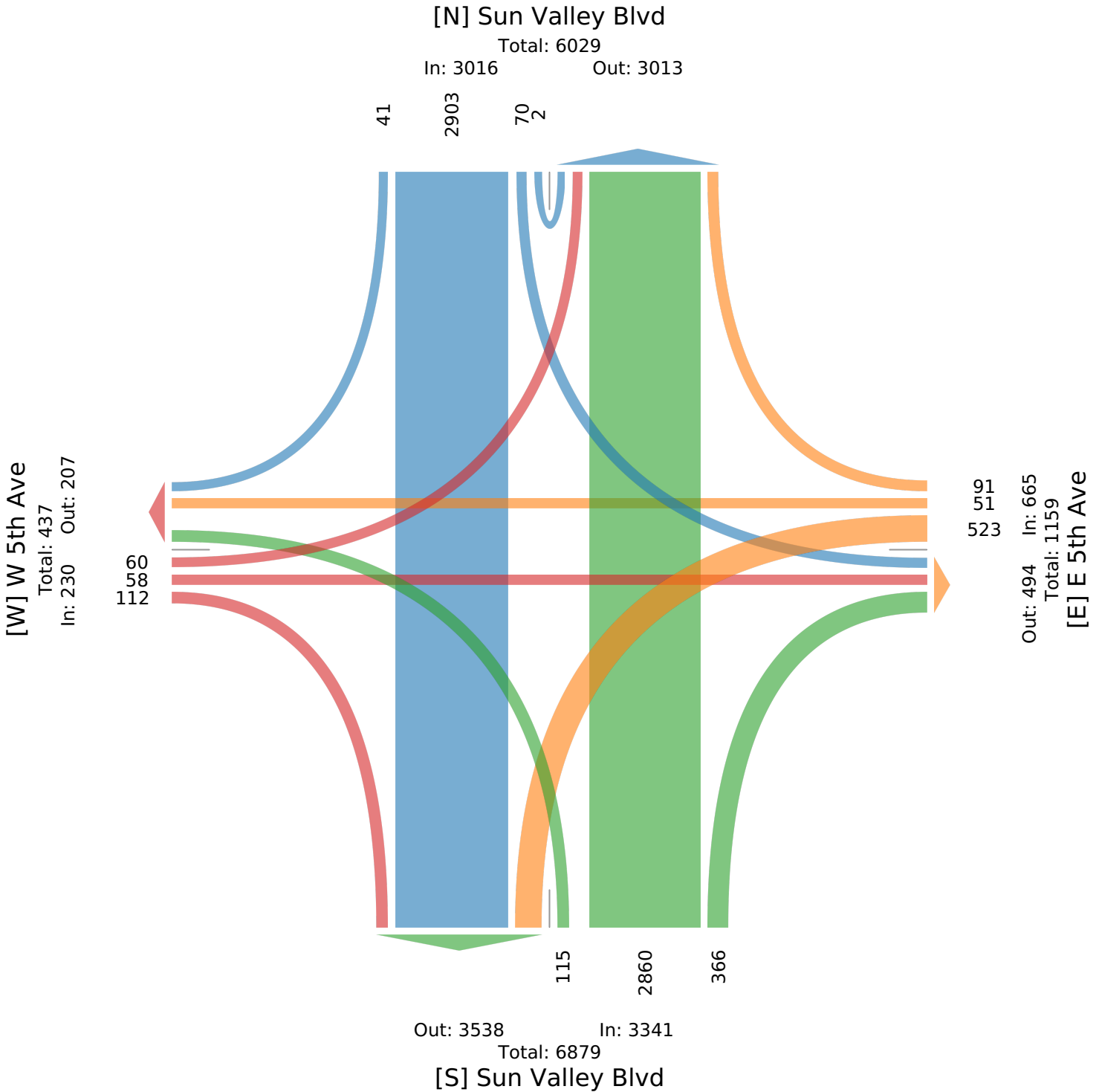
Full Length (7 AM-9 AM, 4 PM-6 PM)

All Classes (Lights, Articulated Trucks, Buses and Single-Unit Trucks)

All Movements

ID: 904392, Location: 39.59269, -119.780577

Provided by: Kimley-Horn and Associates, Inc.
767 Eustis Street, Suite 100, Saint Paul, MN, 55114, US



Sun Valley Boulevard & West 5th Avenue - TMC

Tue Nov 30, 2021

AM Peak (7 AM - 8 AM)

All Classes (Lights, Articulated Trucks, Buses and Single-Unit Trucks)

All Movements

ID: 904392, Location: 39.59269, -119.780577

Provided by: Kimley-Horn and Associates, Inc.
767 Eustis Street, Suite 100, Saint Paul, MN, 55114, US

Leg Direction	Sun Valley Blvd Northbound						Sun Valley Blvd Southbound					
	R	T	L	U	RR	App	R	T	L	U	RR	App
2021-11-30 7:00AM	4	107	3	0	4	118	1	271	5	0	1	278
7:15AM	3	94	5	0	2	104	3	304	4	0	0	311
7:30AM	4	85	6	0	0	95	1	270	1	0	0	272
7:45AM	4	75	2	0	3	84	1	225	1	1	0	228
Total	15	361	16	0	9	401	6	1070	11	1	1	1089
% Approach	3.7%	90.0%	4.0%	0%	2.2%	-	0.6%	98.3%	1.0%	0.1%	0.1%	-
% Total	0.9%	20.9%	0.9%	0%	0.5%	23.2%	0.3%	61.8%	0.6%	0.1%	0.1%	62.9%
PHF	0.938	0.843	0.667	-	0.563	0.850	0.500	0.880	0.550	0.250	0.250	0.875
Lights	15	348	16	0	9	388	6	1048	11	1	1	1067
% Lights	100%	96.4%	100%	0%	100%	96.8%	100%	97.9%	100%	100%	100%	98.0%
Articulated Trucks	0	4	0	0	0	4	0	7	0	0	0	7
% Articulated Trucks	0%	1.1%	0%	0%	0%	1.0%	0%	0.7%	0%	0%	0%	0.6%
Buses and Single-Unit Trucks	0	9	0	0	0	9	0	15	0	0	0	15
% Buses and Single-Unit Trucks	0%	2.5%	0%	0%	0%	2.2%	0%	1.4%	0%	0%	0%	1.4%

* L: Left, R: Right, RR: Right on red, T: Thru, U: U-Turn

Sun Valley Boulevard & West 5th Avenue - TMC

Tue Nov 30, 2021

AM Peak (7 AM - 8 AM)

All Classes (Lights, Articulated Trucks, Buses and Single-Unit Trucks)

All Movements

ID: 904392, Location: 39.59269, -119.780577

Provided by: Kimley-Horn and Associates, Inc.
767 Eustis Street, Suite 100, Saint Paul, MN, 55114, US

Leg Direction	W 5th Ave Eastbound							E 5th Ave Westbound							
Time	R	T	L	U	RR	App	R	T	L	U	RR	App	Int		
2021-11-30 7:00AM	4	4	3	0	7	18	2	0	32	0	2	36	450		
7:15AM	8	4	3	0	7	22	7	0	53	0	2	62	499		
7:30AM	6	2	4	0	3	15	3	3	41	0	1	48	430		
7:45AM	3	0	1	0	3	7	2	0	31	0	0	33	352		
Total	21	10	11	0	20	62	14	3	157	0	5	179	1731		
% Approach	33.9%	16.1%	17.7%	0%	32.3%	-	7.8%	1.7%	87.7%	0%	2.8%	-	-		
% Total	1.2%	0.6%	0.6%	0%	1.2%	3.6%	0.8%	0.2%	9.1%	0%	0.3%	10.3%	-		
PHF	0.656	0.625	0.688	-	0.714	0.705	0.500	0.250	0.741	-	0.625	0.722	0.867		
Lights	21	7	11	0	19	58	14	3	154	0	5	176	1689		
% Lights	100%	70.0%	100%	0%	95.0%	93.5%	100%	100%	98.1%	0%	100%	98.3%	97.6%		
Articulated Trucks	0	0	0	0	0	0	0	0	0	0	0	0	11		
% Articulated Trucks	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0.6%		
Buses and Single-Unit Trucks	0	3	0	0	1	4	0	0	3	0	0	3	31		
% Buses and Single-Unit Trucks	0%	30.0%	0%	0%	5.0%	6.5%	0%	0%	1.9%	0%	0%	1.7%	1.8%		

* L: Left, R: Right, RR: Right on red, T: Thru, U: U-Turn

Sun Valley Boulevard & West 5th Avenue - TMC

Tue Nov 30, 2021

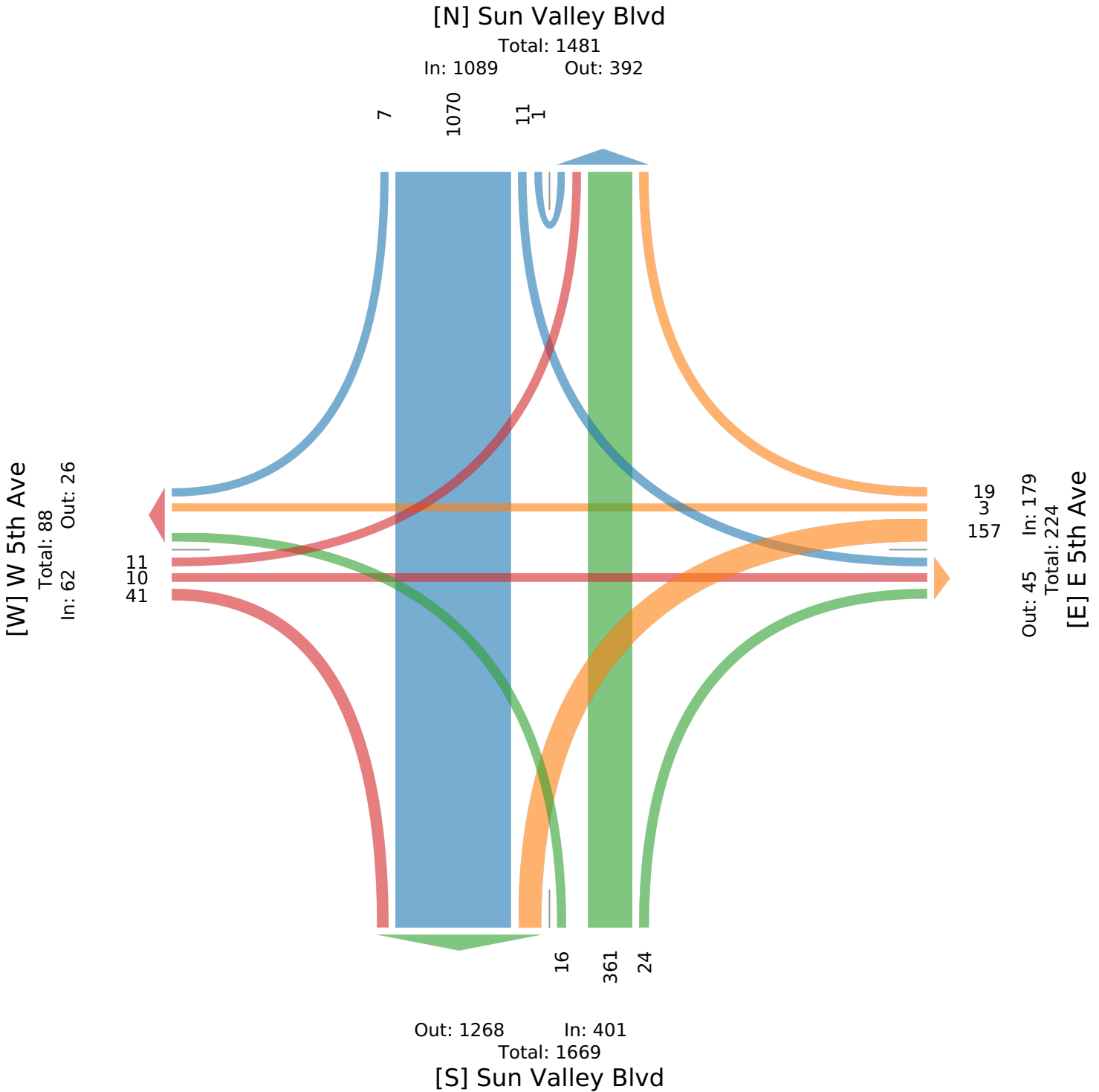
AM Peak (7 AM - 8 AM)

All Classes (Lights, Articulated Trucks, Buses and Single-Unit Trucks)

All Movements

ID: 904392, Location: 39.59269, -119.780577

Provided by: Kimley-Horn and Associates, Inc.
767 Eustis Street, Suite 100, Saint Paul, MN, 55114, US



Sun Valley Boulevard & West 5th Avenue - TMC

Tue Nov 30, 2021

PM Peak (4:45 PM - 5:45 PM) - Overall Peak Hour

All Classes (Lights, Articulated Trucks, Buses and Single-Unit Trucks)

All Movements

ID: 904392, Location: 39.59269, -119.780577

Provided by: Kimley-Horn and Associates, Inc.
767 Eustis Street, Suite 100, Saint Paul, MN, 55114, US

Leg Direction	Sun Valley Blvd Northbound						Sun Valley Blvd Southbound					
	R	T	L	U	RR	App	R	T	L	U	RR	App
2021-11-30 4:45PM	31	267	9	0	6	313	3	163	5	0	1	172
5:00PM	35	267	6	0	7	315	3	146	4	0	0	153
5:15PM	31	307	14	0	8	360	4	138	6	0	0	148
5:30PM	47	276	16	0	5	344	3	135	5	0	1	144
Total	144	1117	45	0	26	1332	13	582	20	0	2	617
% Approach	10.8%	83.9%	3.4%	0%	2.0%	-	2.1%	94.3%	3.2%	0%	0.3%	-
% Total	6.6%	51.1%	2.1%	0%	1.2%	60.9%	0.6%	26.6%	0.9%	0%	0.1%	28.2%
PHF	0.766	0.910	0.703	-	0.813	0.925	0.813	0.893	0.833	-	0.500	0.897
Lights	142	1104	45	0	26	1317	11	579	20	0	2	612
% Lights	98.6%	98.8%	100%	0%	100%	98.9%	84.6%	99.5%	100%	0%	100%	99.2%
Articulated Trucks	1	3	0	0	0	4	0	1	0	0	0	1
% Articulated Trucks	0.7%	0.3%	0%	0%	0%	0.3%	0%	0.2%	0%	0%	0%	0.2%
Buses and Single-Unit Trucks	1	10	0	0	0	11	2	2	0	0	0	4
% Buses and Single-Unit Trucks	0.7%	0.9%	0%	0%	0%	0.8%	15.4%	0.3%	0%	0%	0%	0.6%

* L: Left, R: Right, RR: Right on red, T: Thru, U: U-Turn

Sun Valley Boulevard & West 5th Avenue - TMC

Tue Nov 30, 2021

PM Peak (4:45 PM - 5:45 PM) - Overall Peak Hour

All Classes (Lights, Articulated Trucks, Buses and Single-Unit Trucks)

All Movements

ID: 904392, Location: 39.59269, -119.780577

Provided by: Kimley-Horn and Associates, Inc.
767 Eustis Street, Suite 100, Saint Paul, MN, 55114, US

Leg Direction	W 5th Ave Eastbound						E 5th Ave Westbound						
Time	R	T	L	U	RR	App	R	T	L	U	RR	App	Int
2021-11-30 4:45PM	5	6	4	0	4	19	8	7	28	0	1	44	548
5:00PM	2	7	5	0	2	16	9	10	34	0	2	55	539
5:15PM	0	7	5	0	6	18	2	7	31	0	2	42	568
5:30PM	2	3	2	0	3	10	6	4	20	0	4	34	532
Total	9	23	16	0	15	63	25	28	113	0	9	175	2187
% Approach	14.3%	36.5%	25.4%	0%	23.8%	-	14.3%	16.0%	64.6%	0%	5.1%	-	-
% Total	0.4%	1.1%	0.7%	0%	0.7%	2.9%	1.1%	1.3%	5.2%	0%	0.4%	8.0%	-
PHF	0.450	0.821	0.800	-	0.625	0.829	0.694	0.700	0.831	-	0.563	0.795	0.963
Lights	9	23	14	0	15	61	25	28	109	0	9	171	2161
% Lights	100%	100%	87.5%	0%	100%	96.8%	100%	100%	96.5%	0%	100%	97.7%	98.8%
Articulated Trucks	0	0	0	0	0	0	0	0	0	0	0	0	5
% Articulated Trucks	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0.2%
Buses and Single-Unit Trucks	0	0	2	0	0	2	0	0	4	0	0	4	21
% Buses and Single-Unit Trucks	0%	0%	12.5%	0%	0%	3.2%	0%	0%	3.5%	0%	0%	2.3%	1.0%

* L: Left, R: Right, RR: Right on red, T: Thru, U: U-Turn

Sun Valley Boulevard & West 5th Avenue - TMC

Tue Nov 30, 2021

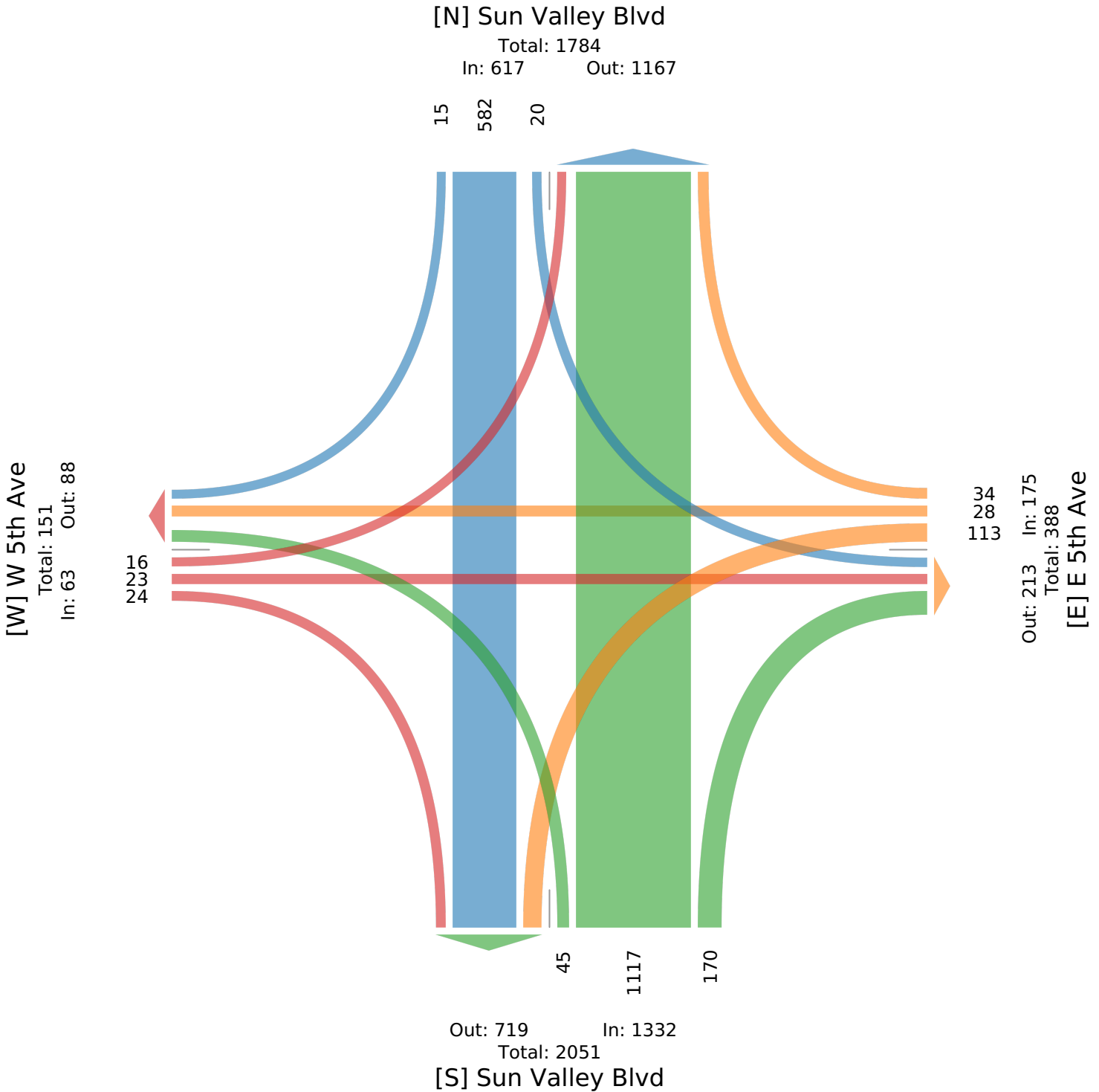
PM Peak (4:45 PM - 5:45 PM) - Overall Peak Hour

All Classes (Lights, Articulated Trucks, Buses and Single-Unit Trucks)

All Movements

ID: 904392, Location: 39.59269, -119.780577

Provided by: Kimley-Horn and Associates, Inc.
767 Eustis Street, Suite 100, Saint Paul, MN, 55114, US



Chocolate Drive & West 4th Avenue - TMC

Tue Nov 30, 2021

Full Length (7 AM-9 AM, 4 PM-6 PM)

All Classes (Lights, Articulated Trucks, Buses and Single-Unit Trucks)

All Movements

ID: 904389, Location: 39.589019, -119.78924

Provided by: Kimley-Horn and Associates, Inc.
767 Eustis Street, Suite 100, Saint Paul, MN, 55114, US

Leg Direction	Chocolate Drive Northbound					Chocolate Drive Southbound					West Eastbound					W 4th Ave Westbound					Int
	R	T	L	U	App	R	T	L	U	App	R	T	L	U	App	R	T	L	U	App	
2021-11-30 7:00AM	0	0	0	0	0	0	0	3	0	3	0	0	0	0	0	0	0	1	0	1	4
7:15AM	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	1	0	0	0	1	2
7:30AM	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	2	0	0	0	2	3
7:45AM	0	0	0	0	0	0	0	2	0	2	0	0	0	0	0	0	0	0	0	0	2
Hourly Total	0	0	0	0	0	0	0	7	0	7	0	0	0	0	0	3	0	1	0	4	11
8:00AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8:15AM	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	1
8:30AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8:45AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Hourly Total	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	1
4:00PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4:15PM	2	0	0	0	2	0	0	0	0	0	0	0	0	0	0	4	0	1	0	5	7
4:30PM	0	0	0	0	0	1	0	1	0	2	0	1	0	0	1	0	0	0	0	0	3
4:45PM	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	1
Hourly Total	2	0	0	0	2	1	0	2	0	3	0	1	0	0	1	4	0	1	0	5	11
5:00PM	0	0	0	0	0	0	1	1	0	2	0	0	0	0	0	0	0	1	0	1	3
5:15PM	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	2	0	0	0	2	3
5:30PM	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	2
5:45PM	1	0	0	0	1	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	2
Hourly Total	2	1	0	0	3	0	1	2	0	3	0	0	0	0	0	2	0	2	0	4	10
Total	4	1	0	0	5	1	1	12	0	14	0	1	0	0	1	9	0	4	0	13	33
% Approach	80.0%	20.0%	0%	0%	-	7.1%	7.1%	85.7%	0%	-	0%	100%	0%	0%	-	69.2%	0%	30.8%	0%	-	-
% Total	12.1%	3.0%	0%	0%	15.2%	3.0%	3.0%	36.4%	0%	42.4%	0%	3.0%	0%	0%	3.0%	27.3%	0%	12.1%	0%	39.4%	-
Lights	3	1	0	0	4	1	1	12	0	14	0	1	0	0	1	9	0	3	0	12	31
% Lights	75.0%	100%	0%	0%	80.0%	100%	100%	100%	0%	100%	0%	100%	0%	0%	100%	100%	0%	75.0%	0%	92.3%	93.9%
Articulated Trucks	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
% Articulated Trucks	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Buses and Single-Unit Trucks	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	2
% Buses and Single-Unit Trucks	25.0%	0%	0%	0%	20.0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	25.0%	0%	7.7%	6.1%

*L: Left, R: Right, T: Thru, U: U-Turn

Chocolate Drive & West 4th Avenue - TMC

Tue Nov 30, 2021

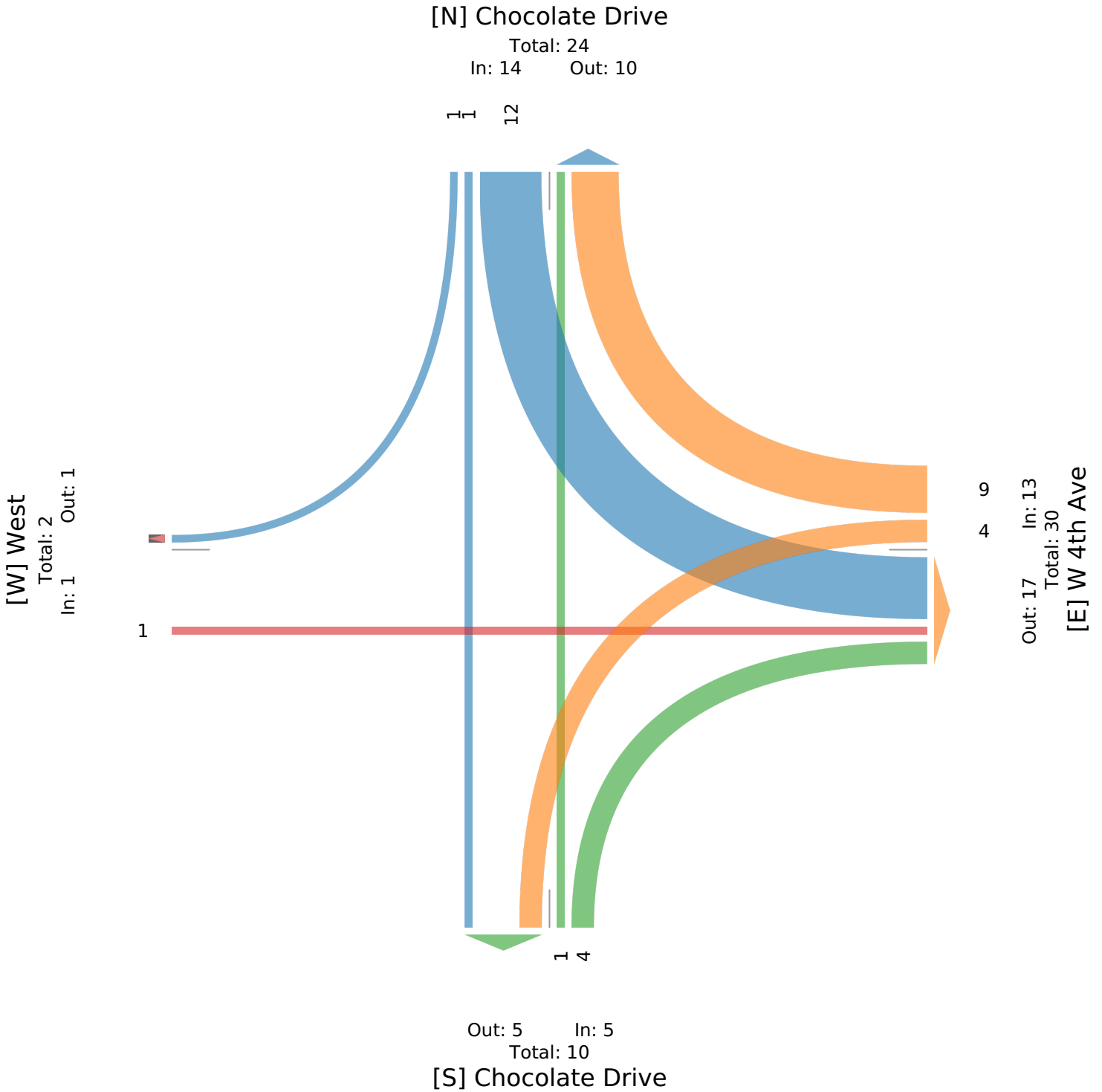
Full Length (7 AM-9 AM, 4 PM-6 PM)

All Classes (Lights, Articulated Trucks, Buses and Single-Unit Trucks)

All Movements

ID: 904389, Location: 39.589019, -119.78924

Provided by: Kimley-Horn and Associates, Inc.
767 Eustis Street, Suite 100, Saint Paul, MN, 55114, US



Chocolate Drive & West 4th Avenue - TMC

Tue Nov 30, 2021

AM Peak (7 AM - 8 AM)

All Classes (Lights, Articulated Trucks, Buses and Single-Unit Trucks)

All Movements

ID: 904389, Location: 39.589019, -119.78924

Provided by: Kimley-Horn and Associates, Inc.
767 Eustis Street, Suite 100, Saint Paul, MN, 55114, US

Leg Direction	Chocolate Drive Northbound					Chocolate Drive Southbound					West Eastbound					W 4th Ave Westbound					
Time	R	T	L	U	App	R	T	L	U	App	R	T	L	U	App	R	T	L	U	App	Int
2021-11-30 7:00AM	0	0	0	0	0	0	0	3	0	3	0	0	0	0	0	0	0	1	0	1	4
7:15AM	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	1	0	0	0	1	2
7:30AM	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	2	0	0	0	2	3
7:45AM	0	0	0	0	0	0	0	2	0	2	0	0	0	0	0	0	0	0	0	0	2
Total	0	0	0	0	0	0	0	7	0	7	0	0	0	0	0	3	0	1	0	4	11
% Approach	0%	0%	0%	0%	-	0%	0%	100%	0%	-	0%	0%	0%	0%	-	75.0%	0%	25.0%	0%	-	-
% Total	0%	0%	0%	0%	0%	0%	0%	63.6%	0%	63.6%	0%	0%	0%	0%	0%	27.3%	0%	9.1%	0%	36.4%	-
PHF	-	-	-	-	-	-	-	0.583	-	0.583	-	-	-	-	-	0.375	-	0.250	-	0.500	0.688
Lights	0	0	0	0	0	0	0	7	0	7	0	0	0	0	0	3	0	1	0	4	11
% Lights	0%	0%	0%	0%	-	0%	0%	100%	0%	100%	0%	0%	0%	0%	-	100%	0%	100%	0%	100%	100%
Articulated Trucks	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
% Articulated Trucks	0%	0%	0%	0%	-	0%	0%	0%	0%	0%	0%	0%	0%	0%	-	0%	0%	0%	0%	0%	0%
Buses and Single-Unit Trucks	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
% Buses and Single-Unit Trucks	0%	0%	0%	0%	-	0%	0%	0%	0%	0%	0%	0%	0%	0%	-	0%	0%	0%	0%	0%	0%

* L: Left, R: Right, T: Thru, U: U-Turn

Chocolate Drive & West 4th Avenue - TMC

Tue Nov 30, 2021

AM Peak (7 AM - 8 AM)

All Classes (Lights, Articulated Trucks, Buses and Single-Unit Trucks)

All Movements

ID: 904389, Location: 39.589019, -119.78924

Provided by: Kimley-Horn and Associates, Inc.
767 Eustis Street, Suite 100, Saint Paul, MN, 55114, US

[N] Chocolate Drive

Total: 10

In: 7 Out: 3

7



3
1

Out: 7 In: 4
Total: 11
[E] W 4th Ave

Out: 1 In: 0
Total: 1

[S] Chocolate Drive

Chocolate Drive & West 4th Avenue - TMC

Tue Nov 30, 2021

PM Peak (4:15 PM - 5:15 PM) - Overall Peak Hour

All Classes (Lights, Articulated Trucks, Buses and Single-Unit Trucks)

All Movements

ID: 904389, Location: 39.589019, -119.78924

Provided by: Kimley-Horn and Associates, Inc.
767 Eustis Street, Suite 100, Saint Paul, MN, 55114, US

Leg Direction	Chocolate Drive Northbound					Chocolate Drive Southbound					West Eastbound					W 4th Ave Westbound					
Time	R	T	L	U	App	R	T	L	U	App	R	T	L	U	App	R	T	L	U	App	Int
2021-11-30 4:15PM	2	0	0	0	2	0	0	0	0	0	0	0	0	0	0	4	0	1	0	5	7
4:30PM	0	0	0	0	0	1	0	1	0	2	0	1	0	0	1	0	0	0	0	0	3
4:45PM	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	1
5:00PM	0	0	0	0	0	0	1	1	0	2	0	0	0	0	0	0	0	1	0	1	3
Total	2	0	0	0	2	1	1	3	0	5	0	1	0	0	1	4	0	2	0	6	14
% Approach	100%	0%	0%	0%	-	20.0%	20.0%	60.0%	0%	-	0%	100%	0%	0%	-	66.7%	0%	33.3%	0%	-	-
% Total	14.3%	0%	0%	0%	14.3%	7.1%	7.1%	21.4%	0%	35.7%	0%	7.1%	0%	0%	7.1%	28.6%	0%	14.3%	0%	42.9%	-
PHF	0.250	-	-	-	0.250	0.250	0.250	0.750	-	0.625	-	0.250	-	-	0.250	0.250	-	0.500	-	0.300	0.500
Lights	1	0	0	0	1	1	1	3	0	5	0	1	0	0	1	4	0	1	0	5	12
% Lights	50.0%	0%	0%	0%	50.0%	100%	100%	100%	0%	100%	0%	100%	0%	0%	100%	100%	0%	50.0%	0%	83.3%	85.7%
Articulated Trucks	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
% Articulated Trucks	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Buses and Single-Unit Trucks	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	2
% Buses and Single-Unit Trucks	50.0%	0%	0%	0%	50.0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	50.0%	0%	16.7%	14.3%

* L: Left, R: Right, T: Thru, U: U-Turn

Chocolate Drive & West 4th Avenue - TMC

Tue Nov 30, 2021

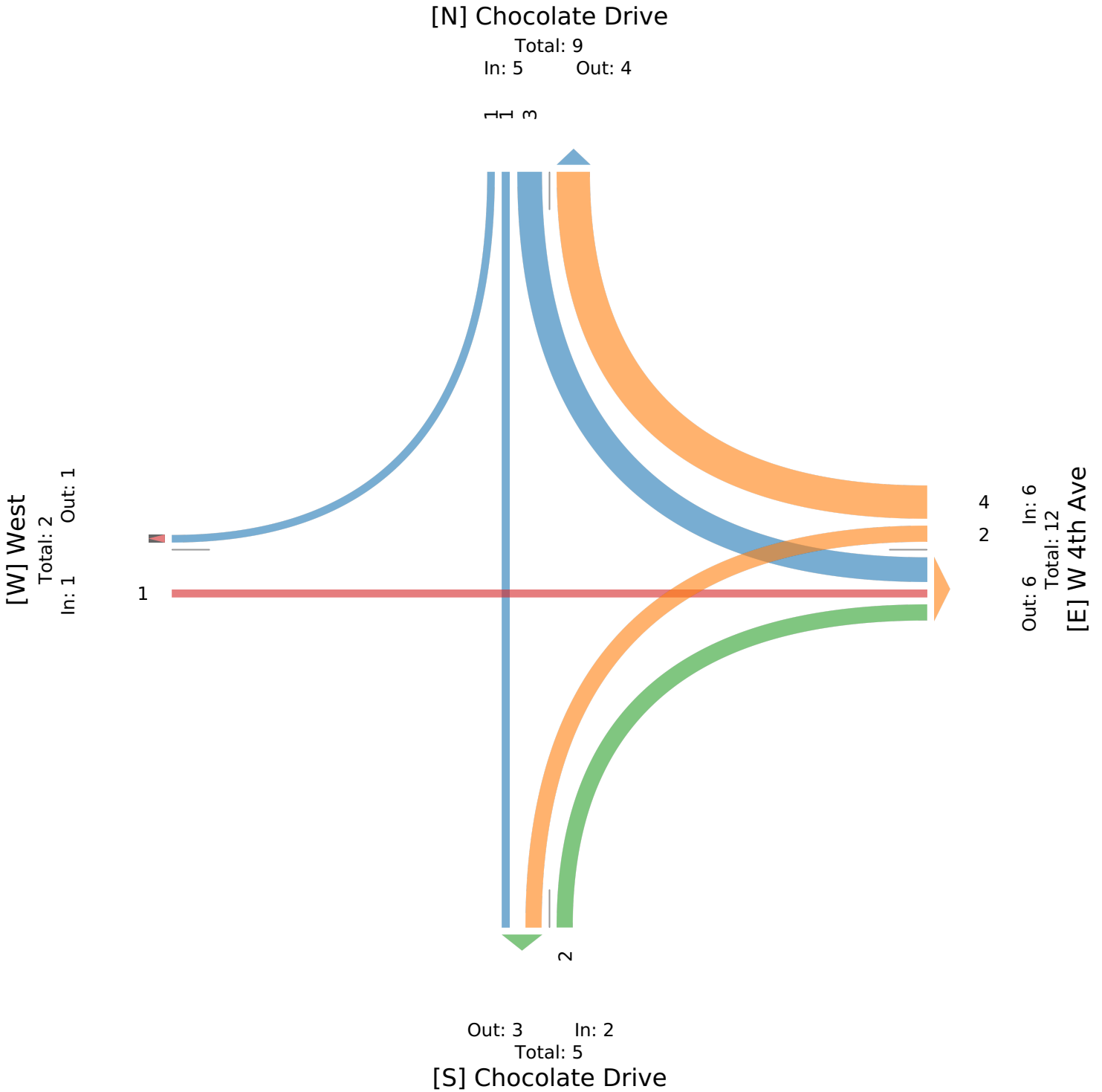
PM Peak (4:15 PM - 5:15 PM) - Overall Peak Hour

All Classes (Lights, Articulated Trucks, Buses and Single-Unit Trucks)

All Movements

ID: 904389, Location: 39.589019, -119.78924

Provided by: Kimley-Horn and Associates, Inc.
767 Eustis Street, Suite 100, Saint Paul, MN, 55114, US



Sun Valley Boulevard & East 4th Avenue - TMC

Provided by: Kimley-Horn and Associates, Inc.
767 Eustis Street, Suite 100, Saint Paul, MN, 55114, US

Tue Nov 30, 2021

Full Length (4 PM-6 PM, 7 AM-9 AM)

All Classes (Lights, Articulated Trucks, Buses and Single-Unit Trucks)

All Movements

ID: 904391, Location: 39.589091, -119.780481

Leg Direction	Sun Valley Blvd Northbound						Sun Valley Blvd Southbound					
	R	T	L	U	RR	App	R	T	L	U	RR	App
Time												
2021-11-30 7:00AM	4	102	1	0	3	110	3	316	4	0	1	324
7:15AM	7	102	1	0	3	113	0	360	4	0	0	364
7:30AM	7	87	3	0	3	100	4	323	4	0	1	332
7:45AM	20	81	2	0	0	103	1	258	2	0	0	261
Hourly Total	38	372	7	0	9	426	8	1257	14	0	2	1281
8:00AM	8	107	1	0	2	118	1	194	1	0	0	196
8:15AM	11	75	2	0	1	89	0	201	0	0	0	201
8:30AM	14	110	1	0	2	127	1	202	0	0	0	203
8:45AM	9	86	5	0	3	103	1	209	0	0	0	210
Hourly Total	42	378	9	0	8	437	3	806	1	0	0	810
4:00PM	44	336	6	0	4	390	0	185	1	0	1	187
4:15PM	41	299	12	0	4	356	3	191	3	0	1	198
4:30PM	39	319	6	0	1	365	0	167	8	0	0	175
4:45PM	41	335	13	0	2	391	1	177	6	0	0	184
Hourly Total	165	1289	37	0	11	1502	4	720	18	0	2	744
5:00PM	48	316	15	0	4	383	1	182	9	0	1	193
5:15PM	36	356	6	0	14	412	1	178	3	0	3	185
5:30PM	32	344	9	0	15	400	5	160	4	0	1	170
5:45PM	39	345	12	0	13	409	1	180	2	1	0	184
Hourly Total	155	1361	42	0	46	1604	8	700	18	1	5	732
Total	400	3400	95	0	74	3969	23	3483	51	1	9	3567
% Approach	10.1%	85.7%	2.4%	0%	1.9%	-	0.6%	97.6%	1.4%	0%	0.3%	-
% Total	4.8%	40.8%	1.1%	0%	0.9%	47.6%	0.3%	41.8%	0.6%	0%	0.1%	42.8%
Lights	395	3347	93	0	74	3909	23	3428	50	1	9	3511
% Lights	98.8%	98.4%	97.9%	0%	100%	98.5%	100%	98.4%	98.0%	100%	100%	98.4%
Articulated Trucks	1	10	0	0	0	11	0	8	0	0	0	8
% Articulated Trucks	0.3%	0.3%	0%	0%	0%	0.3%	0%	0.2%	0%	0%	0%	0.2%
Buses and Single-Unit Trucks	4	43	2	0	0	49	0	47	1	0	0	48
% Buses and Single-Unit Trucks	1.0%	1.3%	2.1%	0%	0%	1.2%	0%	1.3%	2.0%	0%	0%	1.3%

*L: Left, R: Right, RR: Right on red, T: Thru, U: U-Turn

Sun Valley Boulevard & East 4th Avenue - TMC

Provided by: Kimley-Horn and Associates, Inc.
767 Eustis Street, Suite 100, Saint Paul, MN, 55114, US

Tue Nov 30, 2021

Full Length (4 PM-6 PM, 7 AM-9 AM)

All Classes (Lights, Articulated Trucks, Buses and Single-Unit Trucks)

All Movements

ID: 904391, Location: 39.589091, -119.780481

Leg Direction	W 4th Ave Eastbound						E 4th Ave Westbound						
Time	R	T	L	U	RR	App	R	T	L	U	RR	App	Int
2021-11-30 7:00AM	5	0	5	0	7	17	4	0	50	0	3	57	508
7:15AM	6	2	3	0	3	14	2	2	61	0	3	68	559
7:30AM	5	1	0	0	4	10	2	1	37	0	1	41	483
7:45AM	4	1	2	0	2	9	1	0	29	0	3	33	406
Hourly Total	20	4	10	0	16	50	9	3	177	0	10	199	1956
8:00AM	0	0	1	0	4	5	2	0	27	0	2	31	350
8:15AM	2	1	2	0	3	8	1	0	32	0	0	33	331
8:30AM	2	2	2	0	2	8	1	1	38	0	1	41	379
8:45AM	2	1	2	0	1	6	1	0	26	0	1	28	347
Hourly Total	6	4	7	0	10	27	5	1	123	0	4	133	1407
4:00PM	2	2	3	0	4	11	6	0	29	0	3	38	626
4:15PM	2	2	4	0	4	12	3	4	30	0	5	42	608
4:30PM	3	0	2	0	5	10	3	1	21	0	1	26	576
4:45PM	0	1	5	0	4	10	6	0	24	0	3	33	618
Hourly Total	7	5	14	0	17	43	18	5	104	0	12	139	2428
5:00PM	3	1	6	0	5	15	7	2	27	0	0	36	627
5:15PM	4	3	7	0	3	17	5	0	43	0	1	49	663
5:30PM	2	0	5	0	4	11	4	2	29	0	4	39	620
5:45PM	1	3	1	0	4	9	6	3	20	0	1	30	632
Hourly Total	10	7	19	0	16	52	22	7	119	0	6	154	2542
Total	43	20	50	0	59	172	54	16	523	0	32	625	8333
% Approach	25.0%	11.6%	29.1%	0%	34.3%	-	8.6%	2.6%	83.7%	0%	5.1%	-	-
% Total	0.5%	0.2%	0.6%	0%	0.7%	2.1%	0.6%	0.2%	6.3%	0%	0.4%	7.5%	-
Lights	41	19	49	0	58	167	54	16	518	0	32	620	8207
% Lights	95.3%	95.0%	98.0%	0%	98.3%	97.1%	100%	100%	99.0%	0%	100%	99.2%	98.5%
Articulated Trucks	1	0	0	0	0	1	0	0	1	0	0	1	21
% Articulated Trucks	2.3%	0%	0%	0%	0%	0.6%	0%	0%	0.2%	0%	0%	0.2%	0.3%
Buses and Single-Unit Trucks	1	1	1	0	1	4	0	0	4	0	0	4	105
% Buses and Single-Unit Trucks	2.3%	5.0%	2.0%	0%	1.7%	2.3%	0%	0%	0.8%	0%	0%	0.6%	1.3%

*L: Left, R: Right, RR: Right on red, T: Thru, U: U-Turn

Sun Valley Boulevard & East 4th Avenue - TMC

Tue Nov 30, 2021

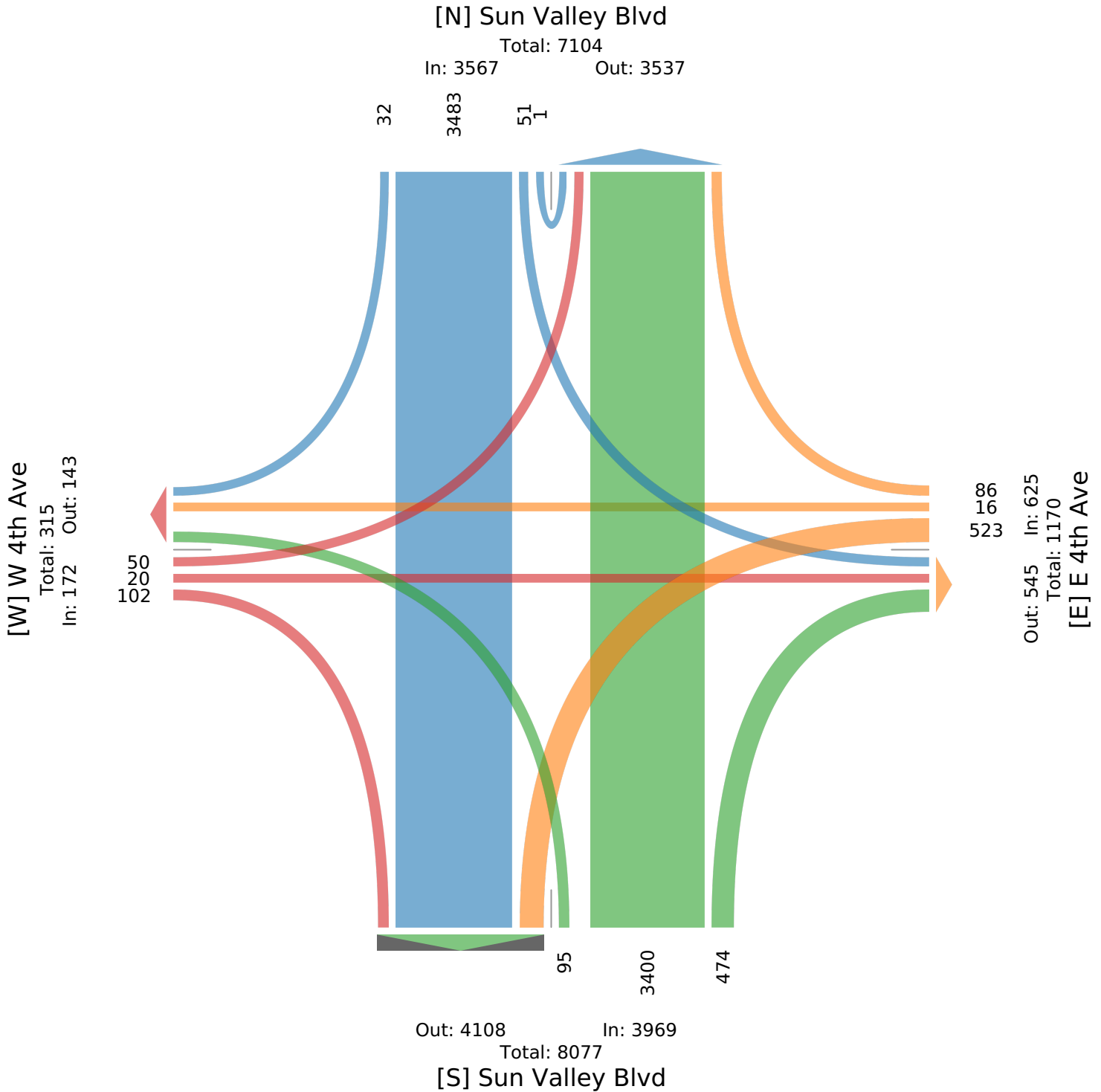
Full Length (4 PM-6 PM, 7 AM-9 AM)

All Classes (Lights, Articulated Trucks, Buses and Single-Unit Trucks)

All Movements

ID: 904391, Location: 39.589091, -119.780481

Provided by: Kimley-Horn and Associates, Inc.
767 Eustis Street, Suite 100, Saint Paul, MN, 55114, US



Sun Valley Boulevard & East 4th Avenue - TMC

Tue Nov 30, 2021

AM Peak (7 AM - 8 AM)

All Classes (Lights, Articulated Trucks, Buses and Single-Unit Trucks)

All Movements

ID: 904391, Location: 39.589091, -119.780481

Provided by: Kimley-Horn and Associates, Inc.
767 Eustis Street, Suite 100, Saint Paul, MN, 55114, US

Leg Direction	Sun Valley Blvd Northbound							Sun Valley Blvd Southbound						
	Time	R	T	L	U	RR	App	R	T	L	U	RR	App	
	2021-11-30 7:00AM	4	102	1	0	3	110	3	316	4	0	1	324	
	7:15AM	7	102	1	0	3	113	0	360	4	0	0	364	
	7:30AM	7	87	3	0	3	100	4	323	4	0	1	332	
	7:45AM	20	81	2	0	0	103	1	258	2	0	0	261	
	Total	38	372	7	0	9	426	8	1257	14	0	2	1281	
	% Approach	8.9%	87.3%	1.6%	0%	2.1%	-	0.6%	98.1%	1.1%	0%	0.2%	-	
	% Total	1.9%	19.0%	0.4%	0%	0.5%	21.8%	0.4%	64.3%	0.7%	0%	0.1%	65.5%	
	PHF	0.475	0.912	0.583	-	0.750	0.942	0.500	0.873	0.875	-	0.500	0.880	
	Lights	37	360	7	0	9	413	8	1235	13	0	2	1258	
	% Lights	97.4%	96.8%	100%	0%	100%	96.9%	100%	98.2%	92.9%	0%	100%	98.2%	
	Articulated Trucks	0	4	0	0	0	4	0	4	0	0	0	4	
	% Articulated Trucks	0%	1.1%	0%	0%	0%	0.9%	0%	0.3%	0%	0%	0%	0.3%	
	Buses and Single-Unit Trucks	1	8	0	0	0	9	0	18	1	0	0	19	
	% Buses and Single-Unit Trucks	2.6%	2.2%	0%	0%	0%	2.1%	0%	1.4%	7.1%	0%	0%	1.5%	

* L: Left, R: Right, RR: Right on red, T: Thru, U: U-Turn

Sun Valley Boulevard & East 4th Avenue - TMC

Tue Nov 30, 2021

AM Peak (7 AM - 8 AM)

All Classes (Lights, Articulated Trucks, Buses and Single-Unit Trucks)

All Movements

ID: 904391, Location: 39.589091, -119.780481

Provided by: Kimley-Horn and Associates, Inc.
767 Eustis Street, Suite 100, Saint Paul, MN, 55114, US

Leg Direction	W 4th Ave Eastbound						E 4th Ave Westbound						
Time	R	T	L	U	RR	App	R	T	L	U	RR	App	Int
2021-11-30 7:00AM	5	0	5	0	7	17	4	0	50	0	3	57	508
7:15AM	6	2	3	0	3	14	2	2	61	0	3	68	559
7:30AM	5	1	0	0	4	10	2	1	37	0	1	41	483
7:45AM	4	1	2	0	2	9	1	0	29	0	3	33	406
Total	20	4	10	0	16	50	9	3	177	0	10	199	1956
% Approach	40.0%	8.0%	20.0%	0%	32.0%	-	4.5%	1.5%	88.9%	0%	5.0%	-	-
% Total	1.0%	0.2%	0.5%	0%	0.8%	2.6%	0.5%	0.2%	9.0%	0%	0.5%	10.2%	-
PHF	0.833	0.500	0.500	-	0.571	0.735	0.563	0.375	0.725	-	0.833	0.732	0.875
Lights	20	4	10	0	16	50	9	3	175	0	10	197	1918
% Lights	100%	100%	100%	0%	100%	100%	100%	100%	98.9%	0%	100%	99.0%	98.1%
Articulated Trucks	0	0	0	0	0	0	0	0	0	0	0	0	8
% Articulated Trucks	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0.4%
Buses and Single-Unit Trucks	0	0	0	0	0	0	0	0	2	0	0	2	30
% Buses and Single-Unit Trucks	0%	0%	0%	0%	0%	0%	0%	0%	1.1%	0%	0%	1.0%	1.5%

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Sun Valley Boulevard & East 4th Avenue - TMC

Tue Nov 30, 2021

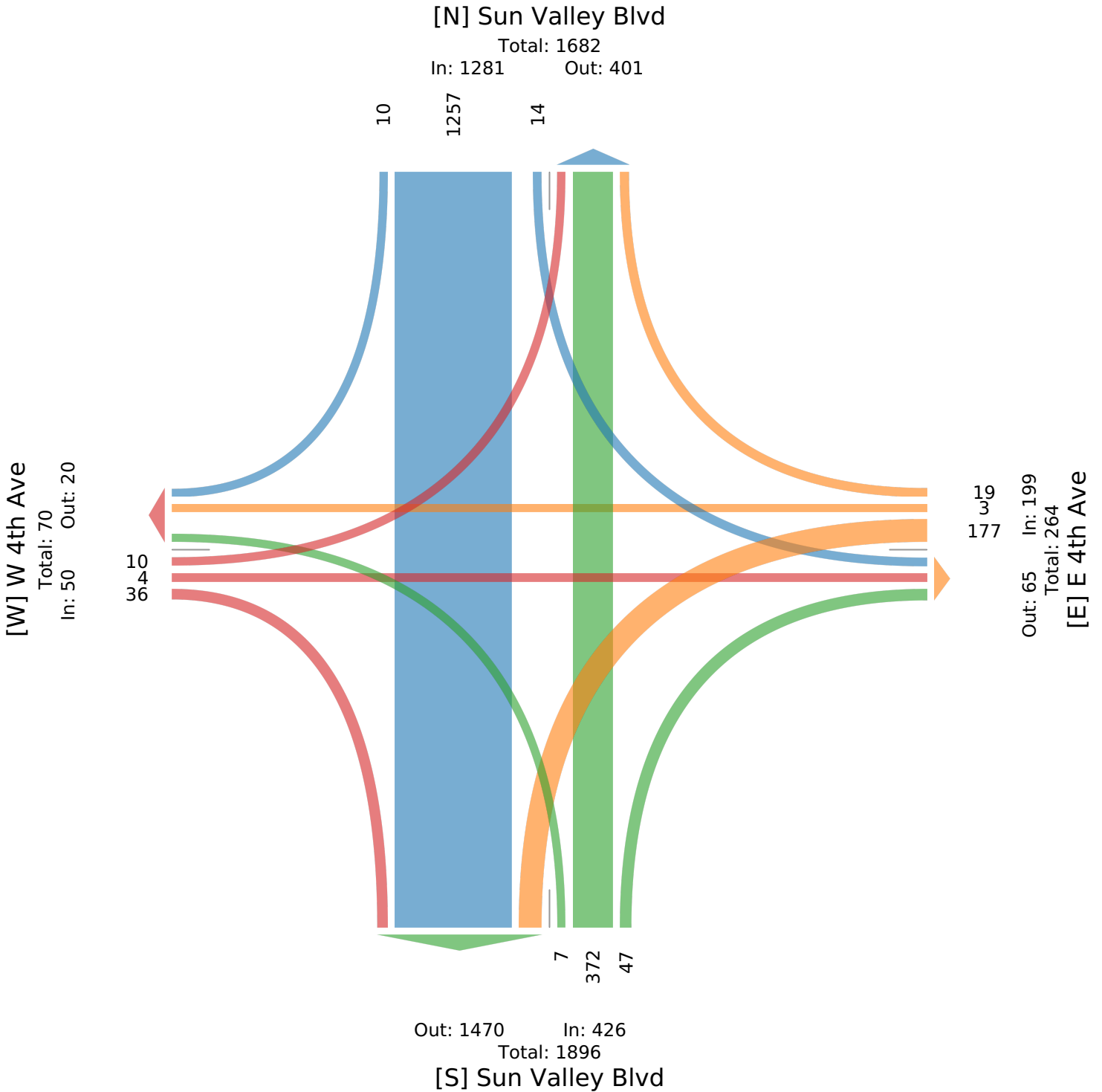
AM Peak (7 AM - 8 AM)

All Classes (Lights, Articulated Trucks, Buses and Single-Unit Trucks)

All Movements

ID: 904391, Location: 39.589091, -119.780481

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Sun Valley Boulevard & East 4th Avenue - TMC

Provided by: Kimley-Horn and Associates, Inc.
767 Eustis Street, Suite 100, Saint Paul, MN, 55114, US

Tue Nov 30, 2021

PM Peak (5 PM - 6 PM) - Overall Peak Hour

All Classes (Lights, Articulated Trucks, Buses and Single-Unit Trucks)

All Movements

ID: 904391, Location: 39.589091, -119.780481

Leg Direction	Sun Valley Blvd Northbound						Sun Valley Blvd Southbound					
	R	T	L	U	RR	App	R	T	L	U	RR	App
2021-11-30 5:00PM	48	316	15	0	4	383	1	182	9	0	1	193
5:15PM	36	356	6	0	14	412	1	178	3	0	3	185
5:30PM	32	344	9	0	15	400	5	160	4	0	1	170
5:45PM	39	345	12	0	13	409	1	180	2	1	0	184
Total	155	1361	42	0	46	1604	8	700	18	1	5	732
% Approach	9.7%	84.9%	2.6%	0%	2.9%	-	1.1%	95.6%	2.5%	0.1%	0.7%	-
% Total	6.1%	53.5%	1.7%	0%	1.8%	63.1%	0.3%	27.5%	0.7%	0%	0.2%	28.8%
PHF	0.807	0.956	0.700	-	0.767	0.973	0.400	0.962	0.500	0.250	0.417	0.948
Lights	154	1349	42	0	46	1591	8	692	18	1	5	724
% Lights	99.4%	99.1%	100%	0%	100%	99.2%	100%	98.9%	100%	100%	100%	98.9%
Articulated Trucks	0	2	0	0	0	2	0	1	0	0	0	1
% Articulated Trucks	0%	0.1%	0%	0%	0%	0.1%	0%	0.1%	0%	0%	0%	0.1%
Buses and Single-Unit Trucks	1	10	0	0	0	11	0	7	0	0	0	7
% Buses and Single-Unit Trucks	0.6%	0.7%	0%	0%	0%	0.7%	0%	1.0%	0%	0%	0%	1.0%

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Sun Valley Boulevard & East 4th Avenue - TMC

Provided by: Kimley-Horn and Associates, Inc.
767 Eustis Street, Suite 100, Saint Paul, MN, 55114, US

Tue Nov 30, 2021

PM Peak (5 PM - 6 PM) - Overall Peak Hour

All Classes (Lights, Articulated Trucks, Buses and Single-Unit Trucks)

All Movements

ID: 904391, Location: 39.589091, -119.780481

Leg Direction	W 4th Ave Eastbound							E 4th Ave Westbound						
Time	R	T	L	U	RR	App	R	T	L	U	RR	App	Int	
2021-11-30 5:00PM	3	1	6	0	5	15	7	2	27	0	0	36	627	
5:15PM	4	3	7	0	3	17	5	0	43	0	1	49	663	
5:30PM	2	0	5	0	4	11	4	2	29	0	4	39	620	
5:45PM	1	3	1	0	4	9	6	3	20	0	1	30	632	
Total	10	7	19	0	16	52	22	7	119	0	6	154	2542	
% Approach	19.2%	13.5%	36.5%	0%	30.8%	-	14.3%	4.5%	77.3%	0%	3.9%	-	-	
% Total	0.4%	0.3%	0.7%	0%	0.6%	2.0%	0.9%	0.3%	4.7%	0%	0.2%	6.1%	-	
PHF	0.625	0.583	0.679	-	0.800	0.765	0.786	0.583	0.692	-	0.375	0.786	0.959	
Lights	10	7	19	0	16	52	22	7	119	0	6	154	2521	
% Lights	100%	100%	100%	0%	100%	100%	100%	100%	100%	0%	100%	100%	99.2%	
Articulated Trucks	0	0	0	0	0	0	0	0	0	0	0	0	3	
% Articulated Trucks	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0.1%	
Buses and Single-Unit Trucks	0	0	0	0	0	0	0	0	0	0	0	0	18	
% Buses and Single-Unit Trucks	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0.7%	

* L: Left, R: Right, RR: Right on red, T: Thru, U: U-Turn

Sun Valley Boulevard & East 4th Avenue - TMC

Tue Nov 30, 2021

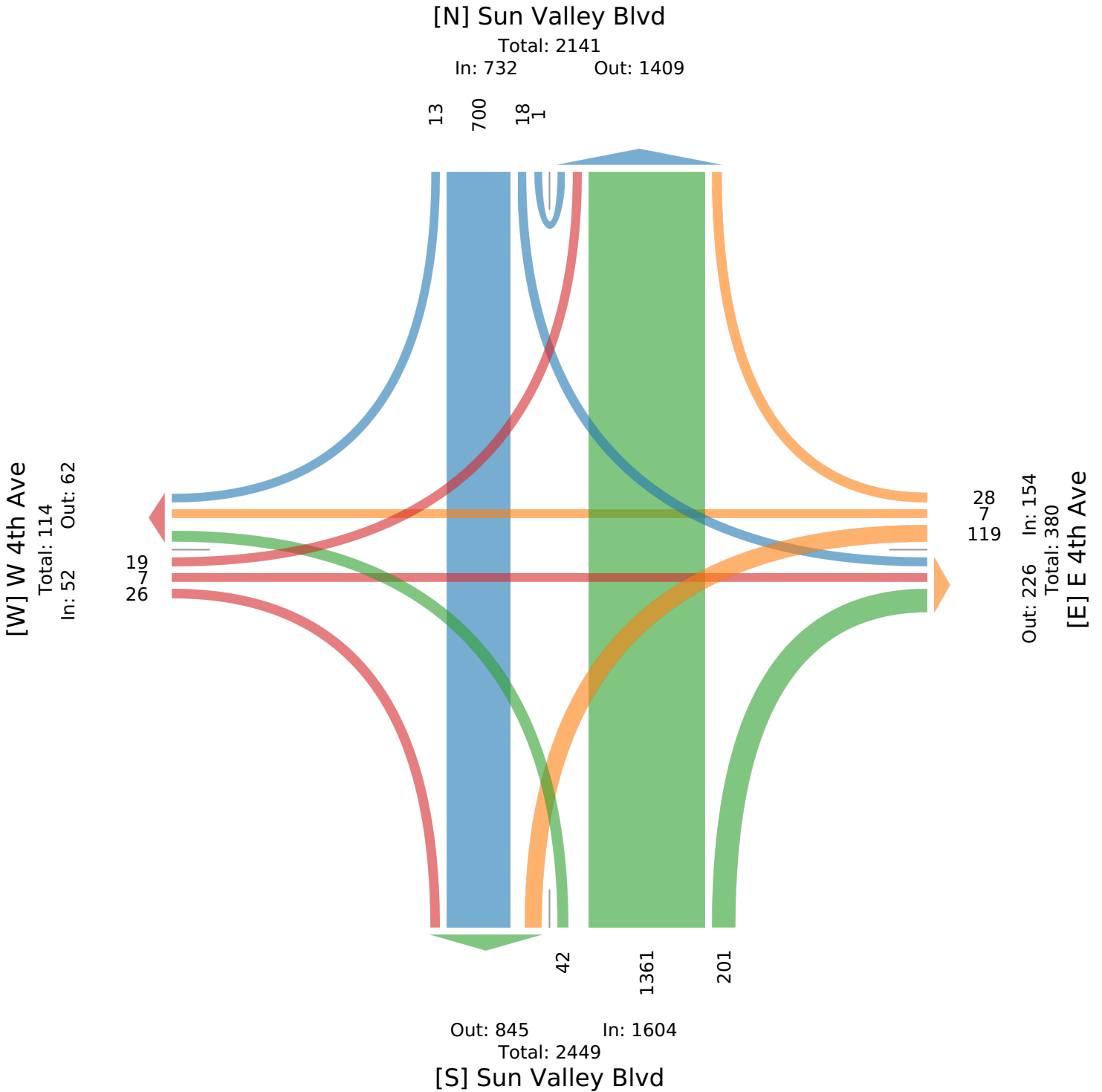
PM Peak (5 PM - 6 PM) - Overall Peak Hour

All Classes (Lights, Articulated Trucks, Buses and Single-Unit Trucks)

All Movements

ID: 904391, Location: 39.589091, -119.780481

Provided by: Kimley-Horn and Associates, Inc.
767 Eustis Street, Suite 100, Saint Paul, MN, 55114, US



APPENDIX C
TRIP GENERATION CALCULATIONS

Project Chocolate Drive



Trip generation for Multifamily Housing (Low-Rise)

Designed by EKR Date January 05, 2021

Job No. 192233000

Checked by DG Date January 05, 2021

Sheet No. 1 of 1

TRIP GENERATION MANUAL TECHNIQUES

ITE Trip Generation 11th Edition, Average Rate Equations

Land Use Code - **220** Multifamily Housing (Low-Rise)

Independent Variable - Dwelling Unit(s)

Number of Units (X) - 240

T = Trip Ends

Peak Hour Adjacent Street Traffic One Hour Between 7 and 9 AM

AM Peak			Directional Distribution:	
T = (X) * 0.40	Trip Ends Per Dwelling Unit(s)	24% Entering	76% Exiting	
T = 96	Trip Ends	23 Entering	73 Exiting	

Peak Hour Adjacent Street Traffic One Hour Between 4 and 6 PM

PM Peak			Directional Distribution:	
T = (X) * 0.51	Trip Ends Per Dwelling Unit(s)	63% Entering	37% Exiting	
T = 122	Trip Ends	77 Entering	45 Exiting	

Weekday

Daily Weekday			Directional Distribution:	
T = (X) * 6.74	Trip Ends Per Dwelling Unit(s)	50% Entering	50% Exiting	
T = 1618	Trip Ends	809 Entering	809 Exiting	

Non-Pass-By Trip Percentage




Non-Pass-By Trip Volumes

AM 100%	AM Peak	23 Entering	73 Exiting
PM 100%	PM Peak	77 Entering	45 Exiting

Note: Rounding may occur in calculations

APPENDIX D
KEY INTERSECTION PEAK HOUR LOS CALCULATIONS

Intersection	
Intersection Delay, s/veh	6.9
Intersection LOS	A

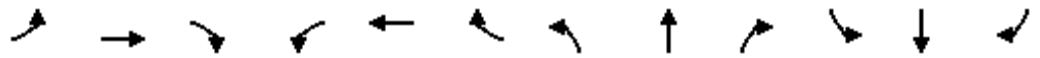
Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations						
Traffic Vol, veh/h	2	3	1	4	7	0
Future Vol, veh/h	2	3	1	4	7	0
Peak Hour Factor	0.62	0.62	0.62	0.62	0.58	0.58
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	3	5	2	6	12	0
Number of Lanes	1	0	1	0	0	1

Approach	WB	NB	SB
Opposing Approach		SB	NB
Opposing Lanes	0	1	1
Conflicting Approach Left	NB		WB
Conflicting Lanes Left	1	0	1
Conflicting Approach Right	SB	WB	
Conflicting Lanes Right	1	1	0
HCM Control Delay	6.7	6.5	7.2
HCM LOS	A	A	A

Lane	NBLn1	WBLn1	SBLn1
Vol Left, %	0%	40%	100%
Vol Thru, %	20%	0%	0%
Vol Right, %	80%	60%	0%
Sign Control	Stop	Stop	Stop
Traffic Vol by Lane	5	5	7
LT Vol	0	2	7
Through Vol	1	0	0
RT Vol	4	3	0
Lane Flow Rate	8	8	12
Geometry Grp	1	1	1
Degree of Util (X)	0.008	0.008	0.014
Departure Headway (Hd)	3.477	3.689	4.154
Convergence, Y/N	Yes	Yes	Yes
Cap	1034	974	866
Service Time	1.481	1.697	2.157
HCM Lane V/C Ratio	0.008	0.008	0.014
HCM Control Delay	6.5	6.7	7.2
HCM Lane LOS	A	A	A
HCM 95th-tile Q	0	0	0




HCM 6th Signalized Intersection Summary
 2: Sun Valley Boulevard & 5th Avenue

2021 AM Existing



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		↕			↕		↗	↕		↗	↕	
Traffic Volume (veh/h)	11	10	41	157	3	19	16	361	24	12	1070	7
Future Volume (veh/h)	11	10	41	157	3	19	16	361	24	12	1070	7
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870
Adj Flow Rate, veh/h	16	14	59	218	4	26	19	425	28	14	1216	8
Peak Hour Factor	0.70	0.70	0.70	0.72	0.72	0.72	0.85	0.85	0.85	0.88	0.88	0.88
Percent Heavy Veh, %	2	2	2	2	2	2	2	2	2	2	2	2
Cap, veh/h	152	98	258	482	8	35	324	1741	114	619	1862	12
Arrive On Green	0.23	0.23	0.23	0.23	0.23	0.23	0.51	0.51	0.51	0.51	0.51	0.51
Sat Flow, veh/h	142	419	1104	1252	35	151	456	3385	222	938	3619	24
Grp Volume(v), veh/h	89	0	0	248	0	0	19	222	231	14	597	627
Grp Sat Flow(s),veh/h/ln	1666	0	0	1437	0	0	456	1777	1830	938	1777	1866
Q Serve(g_s), s	0.0	0.0	0.0	4.0	0.0	0.0	1.1	2.5	2.5	0.3	8.8	8.8
Cycle Q Clear(g_c), s	1.5	0.0	0.0	5.5	0.0	0.0	9.9	2.5	2.5	2.8	8.8	8.8
Prop In Lane	0.18		0.66	0.88		0.10	1.00		0.12	1.00		0.01
Lane Grp Cap(c), veh/h	508	0	0	525	0	0	324	914	942	619	914	960
V/C Ratio(X)	0.18	0.00	0.00	0.47	0.00	0.00	0.06	0.24	0.24	0.02	0.65	0.65
Avail Cap(c_a), veh/h	1003	0	0	950	0	0	428	1320	1360	833	1320	1386
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(l)	1.00	0.00	0.00	1.00	0.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	11.1	0.0	0.0	12.4	0.0	0.0	10.0	4.8	4.8	5.6	6.3	6.3
Incr Delay (d2), s/veh	0.2	0.0	0.0	0.7	0.0	0.0	0.1	0.1	0.1	0.0	0.8	0.8
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.5	0.0	0.0	1.5	0.0	0.0	0.1	0.5	0.5	0.0	1.9	2.0
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	11.2	0.0	0.0	13.1	0.0	0.0	10.0	4.9	4.9	5.6	7.1	7.1
LnGrp LOS	B	A	A	B	A	A	B	A	A	A	A	A
Approach Vol, veh/h		89			248			472			1238	
Approach Delay, s/veh		11.2			13.1			5.2			7.1	
Approach LOS		B			B			A			A	
Timer - Assigned Phs		2		4		6		8				
Phs Duration (G+Y+Rc), s		22.9		12.8		22.9		12.8				
Change Period (Y+Rc), s		4.5		4.5		4.5		4.5				
Max Green Setting (Gmax), s		26.5		19.5		26.5		19.5				
Max Q Clear Time (g_c+I1), s		11.9		3.5		10.8		7.5				
Green Ext Time (p_c), s		2.5		0.3		7.6		1.1				
Intersection Summary												
HCM 6th Ctrl Delay				7.6								
HCM 6th LOS				A								

Intersection	
Intersection Delay, s/veh	7
Intersection LOS	A






















Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations						
Traffic Vol, veh/h	1	3	0	0	7	0
Future Vol, veh/h	1	3	0	0	7	0
Peak Hour Factor	0.50	0.50	0.92	0.92	0.58	0.58
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	2	6	0	0	12	0
Number of Lanes	1	0	1	0	0	1

Approach	WB	NB	SB
Opposing Approach		SB	NB
Opposing Lanes	0	1	1
Conflicting Approach Left	NB		WB
Conflicting Lanes Left	1	0	1
Conflicting Approach Right	SB	WB	
Conflicting Lanes Right	1	1	0
HCM Control Delay	6.6	0	7.2
HCM LOS	A	-	A




Lane	NBLn1	WBLn1	SBLn1
Vol Left, %	0%	25%	100%
Vol Thru, %	100%	0%	0%
Vol Right, %	0%	75%	0%
Sign Control	Stop	Stop	Stop
Traffic Vol by Lane	0	4	7
LT Vol	0	1	7
Through Vol	0	0	0
RT Vol	0	3	0
Lane Flow Rate	0	8	12
Geometry Grp	1	1	1
Degree of Util (X)	0	0.008	0.014
Departure Headway (Hd)	3.957	3.556	4.148
Convergence, Y/N	Yes	Yes	Yes
Cap	0	1011	868
Service Time	1.961	1.561	2.15
HCM Lane V/C Ratio	0	0.008	0.014
HCM Control Delay	7	6.6	7.2
HCM Lane LOS	N	A	A
HCM 95th-tile Q	0	0	0

HCM 6th Signalized Intersection Summary
4: Sun Valley Boulevard & 4th Avenue

2021 AM Existing

												
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	10	4	36	177	3	19	7	372	47	14	1257	10
Future Volume (veh/h)	10	4	36	177	3	19	7	372	47	14	1257	10
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870
Adj Flow Rate, veh/h	14	5	49	242	4	26	7	396	50	16	1428	11
Peak Hour Factor	0.73	0.73	0.73	0.73	0.73	0.73	0.94	0.94	0.94	0.88	0.88	0.88
Percent Heavy Veh, %	2	2	2	2	2	2	2	2	2	2	2	2
Cap, veh/h	403	127	392	419	5	31	251	2081	928	638	2116	16
Arrive On Green	0.25	0.25	0.25	0.25	0.25	0.25	0.59	0.59	0.59	0.59	0.59	0.59
Sat Flow, veh/h	1161	515	1585	1185	20	127	371	3554	1585	944	3614	28
Grp Volume(v), veh/h	19	0	49	272	0	0	7	396	50	16	702	737
Grp Sat Flow(s),veh/h/ln	1676	0	1585	1332	0	0	371	1777	1585	944	1777	1865
Q Serve(g_s), s	0.0	0.0	1.3	10.1	0.0	0.0	0.7	2.8	0.7	0.4	14.6	14.6
Cycle Q Clear(g_c), s	0.4	0.0	1.3	10.5	0.0	0.0	15.3	2.8	0.7	3.2	14.6	14.6
Prop In Lane	0.74		1.00	0.89		0.10	1.00		1.00	1.00		0.01
Lane Grp Cap(c), veh/h	530	0	392	456	0	0	251	2081	928	638	1040	1092
V/C Ratio(X)	0.04	0.00	0.13	0.60	0.00	0.00	0.03	0.19	0.05	0.03	0.67	0.67
Avail Cap(c_a), veh/h	701	0	575	614	0	0	251	2081	928	638	1040	1092
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(l)	1.00	0.00	1.00	1.00	0.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	15.4	0.0	15.7	19.4	0.0	0.0	12.9	5.2	4.8	6.0	7.6	7.6
Incr Delay (d2), s/veh	0.0	0.0	0.1	1.3	0.0	0.0	0.2	0.2	0.1	0.1	3.5	3.3
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.2	0.0	0.4	3.0	0.0	0.0	0.1	0.8	0.2	0.1	4.8	5.0
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	15.4	0.0	15.9	20.7	0.0	0.0	13.1	5.4	4.9	6.0	11.1	11.0
LnGrp LOS	B	A	B	C	A	A	B	A	A	A	B	B
Approach Vol, veh/h		68			272			453			1455	
Approach Delay, s/veh		15.7			20.7			5.5			11.0	
Approach LOS		B			C			A			B	
Timer - Assigned Phs		2		4		6		8				
Phs Duration (G+Y+Rc), s		36.0		17.8		36.0		17.8				
Change Period (Y+Rc), s		4.5		4.5		4.5		4.5				
Max Green Setting (Gmax), s		31.5		19.5		31.5		19.5				
Max Q Clear Time (g_c+I1), s		17.3		3.3		16.6		12.5				
Green Ext Time (p_c), s		2.4		0.2		8.8		0.9				
Intersection Summary												
HCM 6th Ctrl Delay				11.2								
HCM 6th LOS				B								

Intersection	
Intersection Delay, s/veh	7
Intersection LOS	A

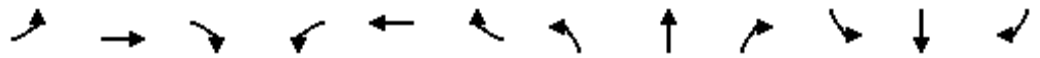
Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations						
Traffic Vol, veh/h	4	11	1	3	10	7
Future Vol, veh/h	4	11	1	3	10	7
Peak Hour Factor	0.75	0.75	0.50	0.50	0.53	0.53
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	5	15	2	6	19	13
Number of Lanes	1	0	1	0	0	1

Approach	WB	NB	SB
Opposing Approach		SB	NB
Opposing Lanes	0	1	1
Conflicting Approach Left	NB		WB
Conflicting Lanes Left	1	0	1
Conflicting Approach Right	SB	WB	
Conflicting Lanes Right	1	1	0
HCM Control Delay	6.7	6.6	7.3
HCM LOS	A	A	A

Lane	NBLn1	WBLn1	SBLn1
Vol Left, %	0%	27%	59%
Vol Thru, %	25%	0%	41%
Vol Right, %	75%	73%	0%
Sign Control	Stop	Stop	Stop
Traffic Vol by Lane	4	15	17
LT Vol	0	4	10
Through Vol	1	0	7
RT Vol	3	11	0
Lane Flow Rate	8	20	32
Geometry Grp	1	1	1
Degree of Util (X)	0.008	0.02	0.036
Departure Headway (Hd)	3.544	3.617	4.093
Convergence, Y/N	Yes	Yes	Yes
Cap	1013	991	879
Service Time	1.553	1.633	2.098
HCM Lane V/C Ratio	0.008	0.02	0.036
HCM Control Delay	6.6	6.7	7.3
HCM Lane LOS	A	A	A
HCM 95th-tile Q	0	0.1	0.1




HCM 6th Signalized Intersection Summary
 2: Sun Valley Boulevard & 5th Avenue

2021 PM Existing



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		↕			↕		↕	↕		↕	↕	
Traffic Volume (veh/h)	16	23	24	113	28	34	45	1117	170	20	582	15
Future Volume (veh/h)	16	23	24	113	28	34	45	1117	170	20	582	15
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870
Adj Flow Rate, veh/h	19	28	29	141	35	42	48	1201	183	22	647	17
Peak Hour Factor	0.83	0.83	0.83	0.80	0.80	0.80	0.93	0.93	0.93	0.90	0.90	0.90
Percent Heavy Veh, %	2	2	2	2	2	2	2	2	2	2	2	2
Cap, veh/h	157	164	129	326	63	57	554	1791	272	301	2048	54
Arrive On Green	0.20	0.20	0.20	0.20	0.20	0.20	0.58	0.58	0.58	0.58	0.58	0.58
Sat Flow, veh/h	225	838	656	908	320	293	772	3094	469	391	3538	93
Grp Volume(v), veh/h	76	0	0	218	0	0	48	687	697	22	325	339
Grp Sat Flow(s),veh/h/ln	1719	0	0	1520	0	0	772	1777	1786	391	1777	1854
Q Serve(g_s), s	0.0	0.0	0.0	3.8	0.0	0.0	1.4	10.6	10.8	1.6	3.8	3.8
Cycle Q Clear(g_c), s	1.5	0.0	0.0	5.3	0.0	0.0	5.1	10.6	10.8	12.4	3.8	3.8
Prop In Lane	0.25		0.38	0.65		0.19	1.00		0.26	1.00		0.05
Lane Grp Cap(c), veh/h	449	0	0	446	0	0	554	1029	1034	301	1029	1073
V/C Ratio(X)	0.17	0.00	0.00	0.49	0.00	0.00	0.09	0.67	0.67	0.07	0.32	0.32
Avail Cap(c_a), veh/h	875	0	0	834	0	0	734	1444	1451	393	1444	1506
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(l)	1.00	0.00	0.00	1.00	0.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	13.5	0.0	0.0	14.9	0.0	0.0	5.7	5.8	5.8	10.1	4.3	4.3
Incr Delay (d2), s/veh	0.2	0.0	0.0	0.8	0.0	0.0	0.1	0.8	0.8	0.1	0.2	0.2
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.5	0.0	0.0	1.6	0.0	0.0	0.2	2.2	2.3	0.1	0.8	0.8
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	13.7	0.0	0.0	15.8	0.0	0.0	5.7	6.5	6.6	10.2	4.5	4.5
LnGrp LOS	B	A	A	B	A	A	A	A	A	B	A	A
Approach Vol, veh/h		76			218			1432			686	
Approach Delay, s/veh		13.7			15.8			6.5			4.7	
Approach LOS		B			B			A			A	
Timer - Assigned Phs		2		4		6		8				
Phs Duration (G+Y+Rc), s		27.7		12.3		27.7		12.3				
Change Period (Y+Rc), s		4.5		4.5		4.5		4.5				
Max Green Setting (Gmax), s		32.5		18.5		32.5		18.5				
Max Q Clear Time (g_c+I1), s		12.8		3.5		14.4		7.3				
Green Ext Time (p_c), s		10.4		0.3		4.3		0.9				
Intersection Summary												
HCM 6th Ctrl Delay				7.1								
HCM 6th LOS				A								

Intersection	
Intersection Delay, s/veh	6.7
Intersection LOS	A






















Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations						
Traffic Vol, veh/h	2	4	0	2	3	1
Future Vol, veh/h	2	4	0	2	3	1
Peak Hour Factor	0.30	0.30	0.25	0.25	0.62	0.62
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	7	13	0	8	5	2
Number of Lanes	1	0	1	0	0	1

Approach	WB	NB	SB
Opposing Approach		SB	NB
Opposing Lanes	0	1	1
Conflicting Approach Left	NB		WB
Conflicting Lanes Left	1	0	1
Conflicting Approach Right	SB	WB	
Conflicting Lanes Right	1	1	0
HCM Control Delay	6.7	6.4	7.2
HCM LOS	A	A	A




Lane	NBLn1	WBLn1	SBLn1
Vol Left, %	0%	33%	75%
Vol Thru, %	0%	0%	25%
Vol Right, %	100%	67%	0%
Sign Control	Stop	Stop	Stop
Traffic Vol by Lane	2	6	4
LT Vol	0	2	3
Through Vol	0	0	1
RT Vol	2	4	0
Lane Flow Rate	8	20	6
Geometry Grp	1	1	1
Degree of Util (X)	0.007	0.02	0.007
Departure Headway (Hd)	3.374	3.626	4.125
Convergence, Y/N	Yes	Yes	Yes
Cap	1066	993	872
Service Time	1.379	1.628	2.129
HCM Lane V/C Ratio	0.008	0.02	0.007
HCM Control Delay	6.4	6.7	7.2
HCM Lane LOS	A	A	A
HCM 95th-tile Q	0	0.1	0

HCM 6th Signalized Intersection Summary
4: Sun Valley Boulevard & 4th Avenue

2021 PM Existing

												
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	19	7	26	119	7	28	42	1361	201	19	700	13
Future Volume (veh/h)	19	7	26	119	7	28	42	1361	201	19	700	13
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870
Adj Flow Rate, veh/h	25	9	34	151	9	35	43	1403	207	20	737	14
Peak Hour Factor	0.77	0.77	0.77	0.79	0.79	0.79	0.97	0.97	0.97	0.95	0.95	0.95
Percent Heavy Veh, %	2	2	2	2	2	2	2	2	2	2	2	2
Cap, veh/h	342	103	298	330	23	47	524	2184	974	272	2192	42
Arrive On Green	0.19	0.19	0.19	0.19	0.19	0.19	0.61	0.61	0.61	0.61	0.61	0.61
Sat Flow, veh/h	1087	548	1585	1009	121	247	712	3554	1585	315	3567	68
Grp Volume(v), veh/h	34	0	34	195	0	0	43	1403	207	20	367	384
Grp Sat Flow(s),veh/h/ln	1635	0	1585	1378	0	0	712	1777	1585	315	1777	1858
Q Serve(g_s), s	0.0	0.0	0.8	5.5	0.0	0.0	1.4	11.5	2.6	2.0	4.6	4.6
Cycle Q Clear(g_c), s	0.7	0.0	0.8	6.2	0.0	0.0	6.0	11.5	2.6	13.4	4.6	4.6
Prop In Lane	0.74		1.00	0.77		0.18	1.00		1.00	1.00		0.04
Lane Grp Cap(c), veh/h	445	0	298	399	0	0	524	2184	974	272	1092	1142
V/C Ratio(X)	0.08	0.00	0.11	0.49	0.00	0.00	0.08	0.64	0.21	0.07	0.34	0.34
Avail Cap(c_a), veh/h	748	0	626	693	0	0	524	2184	974	272	1092	1142
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(l)	1.00	0.00	1.00	1.00	0.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	15.3	0.0	15.4	17.6	0.0	0.0	5.7	5.6	3.9	9.9	4.3	4.3
Incr Delay (d2), s/veh	0.1	0.0	0.2	0.9	0.0	0.0	0.3	1.5	0.5	0.5	0.8	0.8
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.3	0.0	0.3	1.8	0.0	0.0	0.2	2.7	0.6	0.2	1.2	1.2
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	15.4	0.0	15.5	18.5	0.0	0.0	6.0	7.1	4.4	10.4	5.1	5.1
LnGrp LOS	B	A	B	B	A	A	A	A	A	B	A	A
Approach Vol, veh/h		68			195			1653			771	
Approach Delay, s/veh		15.4			18.5			6.7			5.2	
Approach LOS		B			B			A			A	
Timer - Assigned Phs		2		4		6		8				
Phs Duration (G+Y+Rc), s		32.5		13.1		32.5		13.1				
Change Period (Y+Rc), s		4.5		4.5		4.5		4.5				
Max Green Setting (Gmax), s		28.0		18.0		28.0		18.0				
Max Q Clear Time (g_c+I1), s		13.5		2.8		15.4		8.2				
Green Ext Time (p_c), s		9.5		0.2		4.1		0.7				
Intersection Summary												
HCM 6th Ctrl Delay			7.4									
HCM 6th LOS			A									

Intersection	
Intersection Delay, s/veh	6.9
Intersection LOS	A

Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations						
Traffic Vol, veh/h	3	4	2	5	8	0
Future Vol, veh/h	3	4	2	5	8	0
Peak Hour Factor	0.62	0.62	0.62	0.62	0.58	0.58
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	5	6	3	8	14	0
Number of Lanes	1	0	1	0	0	1

Approach	WB	NB	SB
Opposing Approach		SB	NB
Opposing Lanes	0	1	1
Conflicting Approach Left	NB		WB
Conflicting Lanes Left	1	0	1
Conflicting Approach Right	SB	WB	
Conflicting Lanes Right	1	1	0
HCM Control Delay	6.8	6.6	7.2
HCM LOS	A	A	A

Lane	NBLn1	WBLn1	SBLn1
Vol Left, %	0%	43%	100%
Vol Thru, %	29%	0%	0%
Vol Right, %	71%	57%	0%
Sign Control	Stop	Stop	Stop
Traffic Vol by Lane	7	7	8
LT Vol	0	3	8
Through Vol	2	0	0
RT Vol	5	4	0
Lane Flow Rate	11	11	14
Geometry Grp	1	1	1
Degree of Util (X)	0.011	0.012	0.016
Departure Headway (Hd)	3.535	3.72	4.162
Convergence, Y/N	Yes	Yes	Yes
Cap	1017	966	864
Service Time	1.542	1.729	2.167
HCM Lane V/C Ratio	0.011	0.011	0.016
HCM Control Delay	6.6	6.8	7.2
HCM Lane LOS	A	A	A
HCM 95th-tile Q	0	0	0




HCM 6th Signalized Intersection Summary
2: Sun Valley Boulevard & 5th Avenue

2023 AM Background



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		↕			↕		↗	↕		↗	↕	
Traffic Volume (veh/h)	12	11	44	166	4	21	17	381	26	13	1127	8
Future Volume (veh/h)	12	11	44	166	4	21	17	381	26	13	1127	8
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870
Adj Flow Rate, veh/h	17	16	63	231	6	29	20	448	31	15	1281	9
Peak Hour Factor	0.70	0.70	0.70	0.72	0.72	0.72	0.85	0.85	0.85	0.88	0.88	0.88
Percent Heavy Veh, %	2	2	2	2	2	2	2	2	2	2	2	2
Cap, veh/h	145	107	268	480	10	38	299	1749	121	597	1875	13
Arrive On Green	0.24	0.24	0.24	0.24	0.24	0.24	0.52	0.52	0.52	0.52	0.52	0.52
Sat Flow, veh/h	138	436	1096	1237	42	157	428	3373	233	916	3617	25
Grp Volume(v), veh/h	96	0	0	266	0	0	20	235	244	15	629	661
Grp Sat Flow(s),veh/h/ln	1671	0	0	1436	0	0	428	1777	1828	916	1777	1866
Q Serve(g_s), s	0.0	0.0	0.0	4.6	0.0	0.0	1.4	2.8	2.8	0.4	10.0	10.0
Cycle Q Clear(g_c), s	1.7	0.0	0.0	6.3	0.0	0.0	11.4	2.8	2.8	3.2	10.0	10.0
Prop In Lane	0.18		0.66	0.87		0.11	1.00		0.13	1.00		0.01
Lane Grp Cap(c), veh/h	520	0	0	528	0	0	299	921	948	597	921	967
V/C Ratio(X)	0.18	0.00	0.00	0.50	0.00	0.00	0.07	0.26	0.26	0.03	0.68	0.68
Avail Cap(c_a), veh/h	946	0	0	893	0	0	375	1241	1277	761	1241	1303
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(l)	1.00	0.00	0.00	1.00	0.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	11.5	0.0	0.0	13.0	0.0	0.0	11.1	5.1	5.1	6.0	6.8	6.8
Incr Delay (d2), s/veh	0.2	0.0	0.0	0.7	0.0	0.0	0.1	0.1	0.1	0.0	1.0	0.9
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.5	0.0	0.0	1.7	0.0	0.0	0.1	0.6	0.7	0.0	2.4	2.5
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	11.7	0.0	0.0	13.8	0.0	0.0	11.2	5.2	5.2	6.0	7.8	7.7
LnGrp LOS	B	A	A	B	A	A	B	A	A	A	A	A
Approach Vol, veh/h		96			266			499			1305	
Approach Delay, s/veh		11.7			13.8			5.5			7.7	
Approach LOS		B			B			A			A	
Timer - Assigned Phs		2		4		6		8				
Phs Duration (G+Y+Rc), s		24.2		13.8		24.2		13.8				
Change Period (Y+Rc), s		4.5		4.5		4.5		4.5				
Max Green Setting (Gmax), s		26.5		19.5		26.5		19.5				
Max Q Clear Time (g_c+I1), s		13.4		3.7		12.0		8.3				
Green Ext Time (p_c), s		2.6		0.4		7.7		1.2				
Intersection Summary												
HCM 6th Ctrl Delay				8.1								
HCM 6th LOS				A								

Intersection	
Intersection Delay, s/veh	7
Intersection LOS	A






















Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations						
Traffic Vol, veh/h	2	4	0	0	8	0
Future Vol, veh/h	2	4	0	0	8	0
Peak Hour Factor	0.50	0.50	0.92	0.92	0.58	0.58
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	4	8	0	0	14	0
Number of Lanes	1	0	1	0	0	1

Approach	WB	NB	SB
Opposing Approach		SB	NB
Opposing Lanes	0	1	1
Conflicting Approach Left	NB		WB
Conflicting Lanes Left	1	0	1
Conflicting Approach Right	SB	WB	
Conflicting Lanes Right	1	1	0
HCM Control Delay	6.7	0	7.2
HCM LOS	A	-	A




Lane	NBLn1	WBLn1	SBLn1
Vol Left, %	0%	33%	100%
Vol Thru, %	100%	0%	0%
Vol Right, %	0%	67%	0%
Sign Control	Stop	Stop	Stop
Traffic Vol by Lane	0	6	8
LT Vol	0	2	8
Through Vol	0	0	0
RT Vol	0	4	0
Lane Flow Rate	0	12	14
Geometry Grp	1	1	1
Degree of Util (X)	0	0.012	0.016
Departure Headway (Hd)	3.966	3.624	4.156
Convergence, Y/N	Yes	Yes	Yes
Cap	0	991	866
Service Time	1.971	1.632	2.158
HCM Lane V/C Ratio	0	0.012	0.016
HCM Control Delay	7	6.7	7.2
HCM Lane LOS	N	A	A
HCM 95th-tile Q	0	0	0

HCM 6th Signalized Intersection Summary
4: Sun Valley Boulevard & 4th Avenue

2023 AM Background

												
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	11	5	38	187	4	21	8	392	50	15	1324	11
Future Volume (veh/h)	11	5	38	187	4	21	8	392	50	15	1324	11
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870
Adj Flow Rate, veh/h	15	7	52	256	5	29	9	417	53	17	1505	12
Peak Hour Factor	0.73	0.73	0.73	0.73	0.73	0.73	0.94	0.94	0.94	0.88	0.88	0.88
Percent Heavy Veh, %	2	2	2	2	2	2	2	2	2	2	2	2
Cap, veh/h	388	161	413	428	6	35	225	2044	912	610	2078	17
Arrive On Green	0.26	0.26	0.26	0.26	0.26	0.26	0.58	0.58	0.58	0.58	0.58	0.58
Sat Flow, veh/h	1065	620	1585	1170	23	133	344	3554	1585	923	3613	29
Grp Volume(v), veh/h	22	0	52	290	0	0	9	417	53	17	740	777
Grp Sat Flow(s),veh/h/ln	1685	0	1585	1325	0	0	344	1777	1585	923	1777	1865
Q Serve(g_s), s	0.0	0.0	1.4	11.0	0.0	0.0	1.1	3.1	0.8	0.5	16.6	16.6
Cycle Q Clear(g_c), s	0.5	0.0	1.4	11.5	0.0	0.0	17.7	3.1	0.8	3.6	16.6	16.6
Prop In Lane	0.68		1.00	0.88		0.10	1.00		1.00	1.00		0.02
Lane Grp Cap(c), veh/h	550	0	413	469	0	0	225	2044	912	610	1022	1073
V/C Ratio(X)	0.04	0.00	0.13	0.62	0.00	0.00	0.04	0.20	0.06	0.03	0.72	0.72
Avail Cap(c_a), veh/h	693	0	564	600	0	0	225	2044	912	610	1022	1073
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	0.00	1.00	1.00	0.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	15.2	0.0	15.5	19.4	0.0	0.0	14.9	5.6	5.1	6.5	8.5	8.5
Incr Delay (d2), s/veh	0.0	0.0	0.1	1.3	0.0	0.0	0.3	0.2	0.1	0.1	4.5	4.3
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.2	0.0	0.5	3.3	0.0	0.0	0.1	0.9	0.2	0.1	5.8	6.0
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	15.2	0.0	15.6	20.8	0.0	0.0	15.3	5.8	5.2	6.5	12.9	12.7
LnGrp LOS	B	A	B	C	A	A	B	A	A	A	B	B
Approach Vol, veh/h		74			290			479			1534	
Approach Delay, s/veh		15.5			20.8			5.9			12.8	
Approach LOS		B			C			A			B	
Timer - Assigned Phs		2		4		6		8				
Phs Duration (G+Y+Rc), s		36.0		18.8		36.0		18.8				
Change Period (Y+Rc), s		4.5		4.5		4.5		4.5				
Max Green Setting (Gmax), s		31.5		19.5		31.5		19.5				
Max Q Clear Time (g_c+I1), s		19.7		3.4		18.6		13.5				
Green Ext Time (p_c), s		2.4		0.2		8.4		0.9				
Intersection Summary												
HCM 6th Ctrl Delay				12.4								
HCM 6th LOS				B								

Intersection	
Intersection Delay, s/veh	7
Intersection LOS	A

Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations						
Traffic Vol, veh/h	5	12	2	4	11	8
Future Vol, veh/h	5	12	2	4	11	8
Peak Hour Factor	0.75	0.75	0.50	0.50	0.53	0.53
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	7	16	4	8	21	15
Number of Lanes	1	0	1	0	0	1

Approach	WB	NB	SB
Opposing Approach		SB	NB
Opposing Lanes	0	1	1
Conflicting Approach Left	NB		WB
Conflicting Lanes Left	1	0	1
Conflicting Approach Right	SB	WB	
Conflicting Lanes Right	1	1	0
HCM Control Delay	6.8	6.7	7.3
HCM LOS	A	A	A

Lane	NBLn1	WBLn1	SBLn1
Vol Left, %	0%	29%	58%
Vol Thru, %	33%	0%	42%
Vol Right, %	67%	71%	0%
Sign Control	Stop	Stop	Stop
Traffic Vol by Lane	6	17	19
LT Vol	0	5	11
Through Vol	2	0	8
RT Vol	4	12	0
Lane Flow Rate	12	23	36
Geometry Grp	1	1	1
Degree of Util (X)	0.012	0.023	0.041
Departure Headway (Hd)	3.6	3.653	4.099
Convergence, Y/N	Yes	Yes	Yes
Cap	996	981	878
Service Time	1.614	1.672	2.105
HCM Lane V/C Ratio	0.012	0.023	0.041
HCM Control Delay	6.7	6.8	7.3
HCM Lane LOS	A	A	A
HCM 95th-tile Q	0	0.1	0.1

HCM 6th Signalized Intersection Summary




2: Sun Valley Boulevard & 5th Avenue

2023 PM Background



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		↕			↕		↗	↕		↗	↕	
Traffic Volume (veh/h)	17	25	26	119	30	36	48	1176	179	22	613	16
Future Volume (veh/h)	17	25	26	119	30	36	48	1176	179	22	613	16
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870
Adj Flow Rate, veh/h	20	30	31	149	38	45	52	1265	192	24	681	18
Peak Hour Factor	0.83	0.83	0.83	0.80	0.80	0.80	0.93	0.93	0.93	0.90	0.90	0.90
Percent Heavy Veh, %	2	2	2	2	2	2	2	2	2	2	2	2
Cap, veh/h	150	172	134	323	66	60	532	1809	273	277	2067	55
Arrive On Green	0.20	0.20	0.20	0.20	0.20	0.20	0.58	0.58	0.58	0.58	0.58	0.58
Sat Flow, veh/h	219	843	659	904	322	295	747	3096	467	365	3537	93
Grp Volume(v), veh/h	81	0	0	232	0	0	52	722	735	24	342	357
Grp Sat Flow(s),veh/h/ln	1722	0	0	1520	0	0	747	1777	1786	365	1777	1854
Q Serve(g_s), s	0.0	0.0	0.0	4.3	0.0	0.0	1.6	12.1	12.3	2.1	4.2	4.2
Cycle Q Clear(g_c), s	1.6	0.0	0.0	6.0	0.0	0.0	5.9	12.1	12.3	14.5	4.2	4.2
Prop In Lane	0.25		0.38	0.64		0.19	1.00		0.26	1.00		0.05
Lane Grp Cap(c), veh/h	457	0	0	449	0	0	532	1038	1044	277	1038	1083
V/C Ratio(X)	0.18	0.00	0.00	0.52	0.00	0.00	0.10	0.70	0.70	0.09	0.33	0.33
Avail Cap(c_a), veh/h	825	0	0	785	0	0	666	1358	1365	342	1358	1417
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(l)	1.00	0.00	0.00	1.00	0.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	14.1	0.0	0.0	15.7	0.0	0.0	6.1	6.2	6.2	11.3	4.5	4.5
Incr Delay (d2), s/veh	0.2	0.0	0.0	0.9	0.0	0.0	0.1	1.0	1.1	0.1	0.2	0.2
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.6	0.0	0.0	1.9	0.0	0.0	0.2	2.8	2.8	0.2	0.9	0.9
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	14.3	0.0	0.0	16.6	0.0	0.0	6.1	7.2	7.4	11.5	4.7	4.7
LnGrp LOS	B	A	A	B	A	A	A	A	A	B	A	A
Approach Vol, veh/h		81			232			1509			723	
Approach Delay, s/veh		14.3			16.6			7.3			5.0	
Approach LOS		B			B			A			A	
Timer - Assigned Phs		2		4		6		8				
Phs Duration (G+Y+Rc), s		29.4		13.2		29.4		13.2				
Change Period (Y+Rc), s		4.5		4.5		4.5		4.5				
Max Green Setting (Gmax), s		32.5		18.5		32.5		18.5				
Max Q Clear Time (g_c+I1), s		14.3		3.6		16.5		8.0				
Green Ext Time (p_c), s		10.5		0.3		4.3		0.9				
Intersection Summary												
HCM 6th Ctrl Delay				7.7								
HCM 6th LOS				A								

Intersection	
Intersection Delay, s/veh	6.8
Intersection LOS	A






















Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations						
Traffic Vol, veh/h	3	5	0	3	4	2
Future Vol, veh/h	3	5	0	3	4	2
Peak Hour Factor	0.30	0.30	0.25	0.25	0.62	0.62
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	10	17	0	12	6	3
Number of Lanes	1	0	1	0	0	1

Approach	WB	NB	SB
Opposing Approach		SB	NB
Opposing Lanes	0	1	1
Conflicting Approach Left	NB		WB
Conflicting Lanes Left	1	0	1
Conflicting Approach Right	SB	WB	
Conflicting Lanes Right	1	1	0
HCM Control Delay	6.8	6.4	7.2
HCM LOS	A	A	A

Lane	NBLn1	WBLn1	SBLn1
Vol Left, %	0%	38%	67%
Vol Thru, %	0%	0%	33%
Vol Right, %	100%	62%	0%
Sign Control	Stop	Stop	Stop
Traffic Vol by Lane	3	8	6
LT Vol	0	3	4
Through Vol	0	0	2
RT Vol	3	5	0
Lane Flow Rate	12	27	10
Geometry Grp	1	1	1
Degree of Util (X)	0.011	0.027	0.011
Departure Headway (Hd)	3.389	3.673	4.124
Convergence, Y/N	Yes	Yes	Yes
Cap	1060	979	872
Service Time	1.396	1.677	2.13
HCM Lane V/C Ratio	0.011	0.028	0.011
HCM Control Delay	6.4	6.8	7.2
HCM Lane LOS	A	A	A
HCM 95th-tile Q	0	0.1	0

HCM 6th Signalized Intersection Summary
4: Sun Valley Boulevard & 4th Avenue

2023 PM Background

												
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	21	8	28	126	8	30	45	1433	212	21	737	14
Future Volume (veh/h)	21	8	28	126	8	30	45	1433	212	21	737	14
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870
Adj Flow Rate, veh/h	27	10	36	159	10	38	46	1477	219	22	776	15
Peak Hour Factor	0.77	0.77	0.77	0.79	0.79	0.79	0.97	0.97	0.97	0.95	0.95	0.95
Percent Heavy Veh, %	2	2	2	2	2	2	2	2	2	2	2	2
Cap, veh/h	326	103	309	316	23	49	502	2248	1003	246	2256	44
Arrive On Green	0.19	0.19	0.19	0.19	0.19	0.19	0.63	0.63	0.63	0.63	0.63	0.63
Sat Flow, veh/h	1063	530	1585	995	117	250	685	3554	1585	290	3566	69
Grp Volume(v), veh/h	37	0	36	207	0	0	46	1477	219	22	387	404
Grp Sat Flow(s),veh/h/ln	1592	0	1585	1361	0	0	685	1777	1585	290	1777	1858
Q Serve(g_s), s	0.0	0.0	1.0	6.8	0.0	0.0	1.8	13.6	3.1	2.7	5.3	5.3
Cycle Q Clear(g_c), s	0.9	0.0	1.0	7.6	0.0	0.0	7.1	13.6	3.1	16.3	5.3	5.3
Prop In Lane	0.73		1.00	0.77		0.18	1.00		1.00	1.00		0.04
Lane Grp Cap(c), veh/h	430	0	309	387	0	0	502	2248	1003	246	1124	1175
V/C Ratio(X)	0.09	0.00	0.12	0.53	0.00	0.00	0.09	0.66	0.22	0.09	0.34	0.34
Avail Cap(c_a), veh/h	650	0	547	600	0	0	502	2248	1003	246	1124	1175
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	0.00	1.00	1.00	0.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	17.3	0.0	17.3	20.1	0.0	0.0	6.2	6.0	4.1	11.2	4.5	4.5
Incr Delay (d2), s/veh	0.1	0.0	0.2	1.1	0.0	0.0	0.4	1.5	0.5	0.7	0.8	0.8
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.3	0.0	0.3	2.3	0.0	0.0	0.2	3.6	0.8	0.2	1.5	1.5
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	17.3	0.0	17.5	21.3	0.0	0.0	6.5	7.5	4.6	11.9	5.3	5.3
LnGrp LOS	B	A	B	C	A	A	A	A	A	B	A	A
Approach Vol, veh/h		73			207			1742			813	
Approach Delay, s/veh		17.4			21.3			7.1			5.5	
Approach LOS		B			C			A			A	
Timer - Assigned Phs		2		4		6		8				
Phs Duration (G+Y+Rc), s		37.5		14.7		37.5		14.7				
Change Period (Y+Rc), s		4.5		4.5		4.5		4.5				
Max Green Setting (Gmax), s		33.0		18.0		33.0		18.0				
Max Q Clear Time (g_c+I1), s		15.6		3.0		18.3		9.6				
Green Ext Time (p_c), s		11.4		0.2		4.8		0.7				
Intersection Summary												
HCM 6th Ctrl Delay			8.0									
HCM 6th LOS			A									

Intersection	
Intersection Delay, s/veh	7
Intersection LOS	A



















Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		↕			↕			↕			↕	
Traffic Vol, veh/h	0	8	0	3	3	4	0	2	5	8	0	0
Future Vol, veh/h	0	8	0	3	3	4	0	2	5	8	0	0
Peak Hour Factor	0.92	0.92	0.92	0.62	0.92	0.62	0.92	0.62	0.62	0.58	0.58	0.92
Heavy Vehicles, %	2	2	2	2	2	2	2	2	2	2	2	2
Mvmt Flow	0	9	0	5	3	6	0	3	8	14	0	0
Number of Lanes	0	1	0	0	1	0	0	1	0	0	1	0

Approach	EB	WB	NB	SB
Opposing Approach	WB	EB	SB	NB
Opposing Lanes	1	1	1	1
Conflicting Approach Left	SB	NB	EB	WB
Conflicting Lanes Left	1	1	1	1
Conflicting Approach Right	NB	SB	WB	EB
Conflicting Lanes Right	1	1	1	1
HCM Control Delay	7	6.9	6.6	7.3
HCM LOS	A	A	A	A

Lane	NBLn1	EBLn1	WBLn1	SBLn1
Vol Left, %	0%	0%	30%	100%
Vol Thru, %	29%	100%	30%	0%
Vol Right, %	71%	0%	40%	0%
Sign Control	Stop	Stop	Stop	Stop
Traffic Vol by Lane	7	8	10	8
LT Vol	0	0	3	8
Through Vol	2	8	3	0
RT Vol	5	0	4	0
Lane Flow Rate	11	9	15	14
Geometry Grp	1	1	1	1
Degree of Util (X)	0.011	0.01	0.015	0.016
Departure Headway (Hd)	3.556	3.988	3.804	4.184
Convergence, Y/N	Yes	Yes	Yes	Yes
Cap	1009	900	944	859
Service Time	1.568	1.999	1.815	2.192
HCM Lane V/C Ratio	0.011	0.01	0.016	0.016
HCM Control Delay	6.6	7	6.9	7.3
HCM Lane LOS	A	A	A	A
HCM 95th-tile Q	0	0	0	0

HCM 6th Signalized Intersection Summary
2: Sun Valley Boulevard & 5th Avenue

2023 AM Background Plus Project

												
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	20	11	44	166	4	21	17	389	26	13	1130	11
Future Volume (veh/h)	20	11	44	166	4	21	17	389	26	13	1130	11
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870
Adj Flow Rate, veh/h	29	16	63	231	6	29	20	458	31	15	1284	12
Peak Hour Factor	0.70	0.70	0.70	0.72	0.72	0.72	0.85	0.85	0.85	0.88	0.88	0.88
Percent Heavy Veh, %	2	2	2	2	2	2	2	2	2	2	2	2
Cap, veh/h	181	110	239	481	10	38	298	1756	119	593	1876	18
Arrive On Green	0.24	0.24	0.24	0.24	0.24	0.24	0.52	0.52	0.52	0.52	0.52	0.52
Sat Flow, veh/h	248	453	982	1248	41	158	425	3378	228	907	3607	34
Grp Volume(v), veh/h	108	0	0	266	0	0	20	240	249	15	632	664
Grp Sat Flow(s),veh/h/ln	1683	0	0	1447	0	0	425	1777	1829	907	1777	1864
Q Serve(g_s), s	0.0	0.0	0.0	4.3	0.0	0.0	1.4	2.9	2.9	0.4	10.1	10.1
Cycle Q Clear(g_c), s	2.0	0.0	0.0	6.2	0.0	0.0	11.5	2.9	2.9	3.2	10.1	10.1
Prop In Lane	0.27		0.58	0.87		0.11	1.00		0.12	1.00		0.02
Lane Grp Cap(c), veh/h	529	0	0	529	0	0	298	924	951	593	924	969
V/C Ratio(X)	0.20	0.00	0.00	0.50	0.00	0.00	0.07	0.26	0.26	0.03	0.68	0.68
Avail Cap(c_a), veh/h	950	0	0	894	0	0	373	1239	1276	754	1239	1300
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(l)	1.00	0.00	0.00	1.00	0.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	11.6	0.0	0.0	13.1	0.0	0.0	11.1	5.1	5.1	6.0	6.8	6.8
Incr Delay (d2), s/veh	0.2	0.0	0.0	0.7	0.0	0.0	0.1	0.1	0.1	0.0	1.0	0.9
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.6	0.0	0.0	1.7	0.0	0.0	0.1	0.6	0.7	0.0	2.4	2.5
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	11.8	0.0	0.0	13.8	0.0	0.0	11.2	5.2	5.2	6.0	7.8	7.7
LnGrp LOS	B	A	A	B	A	A	B	A	A	A	A	A
Approach Vol, veh/h		108			266			509			1311	
Approach Delay, s/veh		11.8			13.8			5.4			7.7	
Approach LOS		B			B			A			A	
Timer - Assigned Phs		2		4		6		8				
Phs Duration (G+Y+Rc), s		24.3		13.7		24.3		13.7				
Change Period (Y+Rc), s		4.5		4.5		4.5		4.5				
Max Green Setting (Gmax), s		26.5		19.5		26.5		19.5				
Max Q Clear Time (g_c+I1), s		13.5		4.0		12.1		8.2				
Green Ext Time (p_c), s		2.6		0.4		7.7		1.2				
Intersection Summary												
HCM 6th Ctrl Delay				8.1								
HCM 6th LOS				A								

Intersection	
Intersection Delay, s/veh	7.3
Intersection LOS	A






















Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		↕			↕			↕			↕	
Traffic Vol, veh/h	0	59	0	2	19	4	0	0	0	8	0	0
Future Vol, veh/h	0	59	0	2	19	4	0	0	0	8	0	0
Peak Hour Factor	0.92	0.92	0.92	0.50	0.92	0.50	0.92	0.92	0.92	0.58	0.58	0.92
Heavy Vehicles, %	2	2	2	2	2	2	2	2	2	2	2	2
Mvmt Flow	0	64	0	4	21	8	0	0	0	14	0	0
Number of Lanes	0	1	0	0	1	0	0	1	0	0	1	0

Approach	EB	WB	NB	SB
Opposing Approach	WB	EB	SB	NB
Opposing Lanes	1	1	1	1
Conflicting Approach Left	SB	NB	EB	WB
Conflicting Lanes Left	1	1	1	1
Conflicting Approach Right	NB	SB	WB	EB
Conflicting Lanes Right	1	1	1	1
HCM Control Delay	7.3	7.1	0	7.4
HCM LOS	A	A	-	A

Lane	NBLn1	EBLn1	WBLn1	SBLn1
Vol Left, %	0%	0%	8%	100%
Vol Thru, %	100%	100%	76%	0%
Vol Right, %	0%	0%	16%	0%
Sign Control	Stop	Stop	Stop	Stop
Traffic Vol by Lane	0	59	25	8
LT Vol	0	0	2	8
Through Vol	0	59	19	0
RT Vol	0	0	4	0
Lane Flow Rate	0	64	33	14
Geometry Grp	1	1	1	1
Degree of Util (X)	0	0.071	0.036	0.016
Departure Headway (Hd)	4.112	3.982	3.925	4.301
Convergence, Y/N	Yes	Yes	Yes	Yes
Cap	0	902	913	829
Service Time	2.156	1.996	1.945	2.342
HCM Lane V/C Ratio	0	0.071	0.036	0.017
HCM Control Delay	7.2	7.3	7.1	7.4
HCM Lane LOS	N	A	A	A
HCM 95th-tile Q	0	0.2	0.1	0

HCM 6th Signalized Intersection Summary
4: Sun Valley Boulevard & 4th Avenue

2023 AM Background Plus Project

												
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	19	5	90	187	4	21	25	392	50	15	1324	14
Future Volume (veh/h)	19	5	90	187	4	21	25	392	50	15	1324	14
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870
Adj Flow Rate, veh/h	26	7	123	256	5	29	27	417	53	17	1505	16
Peak Hour Factor	0.73	0.73	0.73	0.73	0.73	0.73	0.94	0.94	0.94	0.88	0.88	0.88
Percent Heavy Veh, %	2	2	2	2	2	2	2	2	2	2	2	2
Cap, veh/h	461	111	437	421	6	34	215	2003	893	596	2030	22
Arrive On Green	0.28	0.28	0.28	0.28	0.28	0.28	0.56	0.56	0.56	0.56	0.56	0.56
Sat Flow, veh/h	1255	403	1585	1087	21	123	343	3554	1585	923	3602	38
Grp Volume(v), veh/h	33	0	123	290	0	0	27	417	53	17	742	779
Grp Sat Flow(s),veh/h/ln	1658	0	1585	1231	0	0	343	1777	1585	923	1777	1863
Q Serve(g_s), s	0.0	0.0	3.4	11.9	0.0	0.0	3.6	3.2	0.8	0.5	17.5	17.5
Cycle Q Clear(g_c), s	0.7	0.0	3.4	12.7	0.0	0.0	21.1	3.2	0.8	3.8	17.5	17.5
Prop In Lane	0.79		1.00	0.88		0.10	1.00		1.00	1.00		0.02
Lane Grp Cap(c), veh/h	572	0	437	460	0	0	215	2003	893	596	1001	1050
V/C Ratio(X)	0.06	0.00	0.28	0.63	0.00	0.00	0.13	0.21	0.06	0.03	0.74	0.74
Avail Cap(c_a), veh/h	679	0	553	555	0	0	215	2003	893	596	1001	1050
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(l)	1.00	0.00	1.00	1.00	0.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	14.9	0.0	15.9	19.6	0.0	0.0	17.1	6.0	5.5	7.0	9.1	9.2
Incr Delay (d2), s/veh	0.0	0.0	0.3	1.7	0.0	0.0	1.2	0.2	0.1	0.1	4.9	4.7
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.3	0.0	1.2	3.4	0.0	0.0	0.3	1.0	0.2	0.1	6.3	6.6
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	15.0	0.0	16.3	21.3	0.0	0.0	18.3	6.3	5.6	7.1	14.1	13.9
LnGrp LOS	B	A	B	C	A	A	B	A	A	A	B	B
Approach Vol, veh/h		156			290			497			1538	
Approach Delay, s/veh		16.0			21.3			6.9			13.9	
Approach LOS		B			C			A			B	
Timer - Assigned Phs		2		4		6		8				
Phs Duration (G+Y+Rc), s		36.0		19.9		36.0		19.9				
Change Period (Y+Rc), s		4.5		4.5		4.5		4.5				
Max Green Setting (Gmax), s		31.5		19.5		31.5		19.5				
Max Q Clear Time (g_c+I1), s		23.1		5.4		19.5		14.7				
Green Ext Time (p_c), s		2.2		0.4		7.9		0.8				
Intersection Summary												
HCM 6th Ctrl Delay				13.5								
HCM 6th LOS				B								

Intersection	
Intersection Delay, s/veh	7
Intersection LOS	A

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		↕			↕			↕			↕	
Traffic Vol, veh/h	0	8	0	0	3	0	0	0	0	0	0	0
Future Vol, veh/h	0	8	0	0	3	0	0	0	0	0	0	0
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Heavy Vehicles, %	2	2	2	2	2	2	2	2	2	2	2	2
Mvmt Flow	0	9	0	0	3	0	0	0	0	0	0	0
Number of Lanes	0	1	0	0	1	0	0	1	0	0	1	0

Approach	EB	WB	NB	SB
Opposing Approach	WB	EB	SB	NB
Opposing Lanes	1	1	1	1
Conflicting Approach Left	SB	NB	EB	WB
Conflicting Lanes Left	1	1	1	1
Conflicting Approach Right	NB	SB	WB	EB
Conflicting Lanes Right	1	1	1	1
HCM Control Delay	7	7	0	0
HCM LOS	A	A	-	-

Lane	NBLn1	EBLn1	WBLn1	SBLn1
Vol Left, %	0%	0%	0%	0%
Vol Thru, %	100%	100%	100%	100%
Vol Right, %	0%	0%	0%	0%
Sign Control	Stop	Stop	Stop	Stop
Traffic Vol by Lane	0	8	3	0
LT Vol	0	0	0	0
Through Vol	0	8	3	0
RT Vol	0	0	0	0
Lane Flow Rate	0	9	3	0
Geometry Grp	1	1	1	1
Degree of Util (X)	0	0.01	0.004	0
Departure Headway (Hd)	3.955	3.936	3.941	3.955
Convergence, Y/N	Yes	Yes	Yes	Yes
Cap	0	915	913	0
Service Time	1.961	1.937	1.942	1.961
HCM Lane V/C Ratio	0	0.01	0.003	0
HCM Control Delay	7	7	7	7
HCM Lane LOS	N	A	A	N
HCM 95th-tile Q	0	0	0	0

Intersection	
Intersection Delay, s/veh	7.1
Intersection LOS	A

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		↕			↕			↕			↕	
Traffic Vol, veh/h	0	5	0	5	8	12	0	2	4	11	8	0
Future Vol, veh/h	0	5	0	5	8	12	0	2	4	11	8	0
Peak Hour Factor	0.92	0.92	0.92	0.75	0.92	0.75	0.92	0.50	0.50	0.53	0.53	0.92
Heavy Vehicles, %	2	2	2	2	2	2	2	2	2	2	2	2
Mvmt Flow	0	5	0	7	9	16	0	4	8	21	15	0
Number of Lanes	0	1	0	0	1	0	0	1	0	0	1	0

Approach	EB	WB	NB	SB
Opposing Approach	WB	EB	SB	NB
Opposing Lanes	1	1	1	1
Conflicting Approach Left	SB	NB	EB	WB
Conflicting Lanes Left	1	1	1	1
Conflicting Approach Right	NB	SB	WB	EB
Conflicting Lanes Right	1	1	1	1
HCM Control Delay	7.1	6.9	6.7	7.3
HCM LOS	A	A	A	A

Lane	NBLn1	EBLn1	WBLn1	SBLn1
Vol Left, %	0%	0%	20%	58%
Vol Thru, %	33%	100%	32%	42%
Vol Right, %	67%	0%	48%	0%
Sign Control	Stop	Stop	Stop	Stop
Traffic Vol by Lane	6	5	25	19
LT Vol	0	0	5	11
Through Vol	2	5	8	8
RT Vol	4	0	12	0
Lane Flow Rate	12	5	31	36
Geometry Grp	1	1	1	1
Degree of Util (X)	0.012	0.006	0.033	0.041
Departure Headway (Hd)	3.625	4.042	3.774	4.124
Convergence, Y/N	Yes	Yes	Yes	Yes
Cap	988	885	949	871
Service Time	1.645	2.066	1.794	2.136
HCM Lane V/C Ratio	0.012	0.006	0.033	0.041
HCM Control Delay	6.7	7.1	6.9	7.3
HCM Lane LOS	A	A	A	A
HCM 95th-tile Q	0	0	0.1	0.1

HCM 6th Signalized Intersection Summary
2: Sun Valley Boulevard & 5th Avenue

2023 PM Background Plus Project



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		↕			↕		↗	↕		↗	↕	
Traffic Volume (veh/h)	22	25	26	119	30	36	48	1181	179	22	621	24
Future Volume (veh/h)	22	25	26	119	30	36	48	1181	179	22	621	24
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870
Adj Flow Rate, veh/h	27	30	31	149	38	45	52	1270	192	24	690	27
Peak Hour Factor	0.83	0.83	0.83	0.80	0.80	0.80	0.93	0.93	0.93	0.90	0.90	0.90
Percent Heavy Veh, %	2	2	2	2	2	2	2	2	2	2	2	2
Cap, veh/h	172	165	123	324	65	60	524	1813	272	276	2041	80
Arrive On Green	0.20	0.20	0.20	0.20	0.20	0.20	0.59	0.59	0.59	0.59	0.59	0.59
Sat Flow, veh/h	304	810	606	908	322	296	734	3098	465	363	3486	136
Grp Volume(v), veh/h	88	0	0	232	0	0	52	725	737	24	352	365
Grp Sat Flow(s),veh/h/ln	1721	0	0	1526	0	0	734	1777	1787	363	1777	1846
Q Serve(g_s), s	0.0	0.0	0.0	4.1	0.0	0.0	1.7	12.2	12.4	2.1	4.4	4.4
Cycle Q Clear(g_c), s	1.8	0.0	0.0	5.9	0.0	0.0	6.0	12.2	12.4	14.5	4.4	4.4
Prop In Lane	0.31		0.35	0.64		0.19	1.00		0.26	1.00		0.07
Lane Grp Cap(c), veh/h	461	0	0	449	0	0	524	1040	1046	276	1040	1080
V/C Ratio(X)	0.19	0.00	0.00	0.52	0.00	0.00	0.10	0.70	0.70	0.09	0.34	0.34
Avail Cap(c_a), veh/h	822	0	0	784	0	0	654	1355	1363	340	1355	1408
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	0.00	0.00	1.00	0.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	14.2	0.0	0.0	15.7	0.0	0.0	6.1	6.2	6.2	11.4	4.6	4.6
Incr Delay (d2), s/veh	0.2	0.0	0.0	0.9	0.0	0.0	0.1	1.1	1.1	0.1	0.2	0.2
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.6	0.0	0.0	1.9	0.0	0.0	0.2	2.8	2.9	0.2	0.9	1.0
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	14.4	0.0	0.0	16.7	0.0	0.0	6.2	7.3	7.4	11.5	4.8	4.8
LnGrp LOS	B	A	A	B	A	A	A	A	A	B	A	A
Approach Vol, veh/h		88			232			1514			741	
Approach Delay, s/veh		14.4			16.7			7.3			5.0	
Approach LOS		B			B			A			A	
Timer - Assigned Phs		2		4		6		8				
Phs Duration (G+Y+Rc), s		29.4		13.2		29.4		13.2				
Change Period (Y+Rc), s		4.5		4.5		4.5		4.5				
Max Green Setting (Gmax), s		32.5		18.5		32.5		18.5				
Max Q Clear Time (g_c+I1), s		14.4		3.8		16.5		7.9				
Green Ext Time (p_c), s		10.5		0.3		4.5		0.9				
Intersection Summary												
HCM 6th Ctrl Delay				7.7								
HCM 6th LOS				A								

Intersection	
Intersection Delay, s/veh	7.3
Intersection LOS	A






















Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		↕			↕			↕			↕	
Traffic Vol, veh/h	0	36	0	3	62	5	0	0	3	4	2	0
Future Vol, veh/h	0	36	0	3	62	5	0	0	3	4	2	0
Peak Hour Factor	0.92	0.92	0.92	0.30	0.92	0.30	0.92	0.25	0.25	0.62	0.62	0.92
Heavy Vehicles, %	2	2	2	2	2	2	2	2	2	2	2	2
Mvmt Flow	0	39	0	10	67	17	0	0	12	6	3	0
Number of Lanes	0	1	0	0	1	0	0	1	0	0	1	0

Approach	EB	WB	NB	SB
Opposing Approach	WB	EB	SB	NB
Opposing Lanes	1	1	1	1
Conflicting Approach Left	SB	NB	EB	WB
Conflicting Lanes Left	1	1	1	1
Conflicting Approach Right	NB	SB	WB	EB
Conflicting Lanes Right	1	1	1	1
HCM Control Delay	7.3	7.4	6.7	7.4
HCM LOS	A	A	A	A

Lane	NBLn1	EBLn1	WBLn1	SBLn1
Vol Left, %	0%	0%	4%	67%
Vol Thru, %	0%	100%	89%	33%
Vol Right, %	100%	0%	7%	0%
Sign Control	Stop	Stop	Stop	Stop
Traffic Vol by Lane	3	36	70	6
LT Vol	0	0	3	4
Through Vol	0	36	62	2
RT Vol	3	0	5	0
Lane Flow Rate	12	39	94	10
Geometry Grp	1	1	1	1
Degree of Util (X)	0.012	0.044	0.104	0.012
Departure Headway (Hd)	3.572	4.044	3.968	4.309
Convergence, Y/N	Yes	Yes	Yes	Yes
Cap	992	885	905	825
Service Time	1.63	2.069	1.984	2.365
HCM Lane V/C Ratio	0.012	0.044	0.104	0.012
HCM Control Delay	6.7	7.3	7.4	7.4
HCM Lane LOS	A	A	A	A
HCM 95th-tile Q	0	0.1	0.3	0

HCM 6th Signalized Intersection Summary
4: Sun Valley Boulevard & 4th Avenue

2023 PM Background Plus Project

												
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	26	8	60	126	8	30	99	1433	212	21	737	22
Future Volume (veh/h)	26	8	60	126	8	30	99	1433	212	21	737	22
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870
Adj Flow Rate, veh/h	34	10	78	159	10	38	102	1477	219	22	776	23
Peak Hour Factor	0.77	0.77	0.77	0.79	0.79	0.79	0.97	0.97	0.97	0.95	0.95	0.95
Percent Heavy Veh, %	2	2	2	2	2	2	2	2	2	2	2	2
Cap, veh/h	349	88	320	312	25	49	492	2229	994	242	2210	65
Arrive On Green	0.20	0.20	0.20	0.20	0.20	0.20	0.63	0.63	0.63	0.63	0.63	0.63
Sat Flow, veh/h	1128	435	1585	946	124	241	680	3554	1585	290	3524	104
Grp Volume(v), veh/h	44	0	78	207	0	0	102	1477	219	22	391	408
Grp Sat Flow(s),veh/h/ln	1563	0	1585	1311	0	0	680	1777	1585	290	1777	1852
Q Serve(g_s), s	0.0	0.0	2.2	6.9	0.0	0.0	4.4	14.0	3.1	2.8	5.5	5.5
Cycle Q Clear(g_c), s	1.1	0.0	2.2	8.0	0.0	0.0	10.0	14.0	3.1	16.7	5.5	5.5
Prop In Lane	0.77		1.00	0.77		0.18	1.00		1.00	1.00		0.06
Lane Grp Cap(c), veh/h	437	0	320	386	0	0	492	2229	994	242	1114	1161
V/C Ratio(X)	0.10	0.00	0.24	0.54	0.00	0.00	0.21	0.66	0.22	0.09	0.35	0.35
Avail Cap(c_a), veh/h	640	0	542	578	0	0	492	2229	994	242	1114	1161
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(l)	1.00	0.00	1.00	1.00	0.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	17.2	0.0	17.6	20.1	0.0	0.0	7.1	6.3	4.2	11.6	4.7	4.7
Incr Delay (d2), s/veh	0.1	0.0	0.4	1.2	0.0	0.0	1.0	1.6	0.5	0.7	0.9	0.8
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.4	0.0	0.8	2.3	0.0	0.0	0.6	3.7	0.8	0.2	1.6	1.6
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	17.3	0.0	18.0	21.3	0.0	0.0	8.0	7.8	4.8	12.3	5.6	5.5
LnGrp LOS	B	A	B	C	A	A	A	A	A	B	A	A
Approach Vol, veh/h		122			207			1798			821	
Approach Delay, s/veh		17.8			21.3			7.5			5.7	
Approach LOS		B			C			A			A	
Timer - Assigned Phs		2		4		6		8				
Phs Duration (G+Y+Rc), s		37.5		15.1		37.5		15.1				
Change Period (Y+Rc), s		4.5		4.5		4.5		4.5				
Max Green Setting (Gmax), s		33.0		18.0		33.0		18.0				
Max Q Clear Time (g_c+I1), s		16.0		4.2		18.7		10.0				
Green Ext Time (p_c), s		11.6		0.3		4.8		0.7				
Intersection Summary												
HCM 6th Ctrl Delay			8.4									
HCM 6th LOS			A									

Intersection	
Intersection Delay, s/veh	7
Intersection LOS	A

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		↕			↕			↕			↕	
Traffic Vol, veh/h	0	5	0	0	8	0	0	0	0	0	0	0
Future Vol, veh/h	0	5	0	0	8	0	0	0	0	0	0	0
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Heavy Vehicles, %	2	2	2	2	2	2	2	2	2	2	2	2
Mvmt Flow	0	5	0	0	9	0	0	0	0	0	0	0
Number of Lanes	0	1	0	0	1	0	0	1	0	0	1	0

Approach	EB	WB	NB	SB
Opposing Approach	WB	EB	SB	NB
Opposing Lanes	1	1	1	1
Conflicting Approach Left	SB	NB	EB	WB
Conflicting Lanes Left	1	1	1	1
Conflicting Approach Right	NB	SB	WB	EB
Conflicting Lanes Right	1	1	1	1
HCM Control Delay	7	7	0	0
HCM LOS	A	A	-	-

Lane	NBLn1	EBLn1	WBLn1	SBLn1
Vol Left, %	0%	0%	0%	0%
Vol Thru, %	100%	100%	100%	100%
Vol Right, %	0%	0%	0%	0%
Sign Control	Stop	Stop	Stop	Stop
Traffic Vol by Lane	0	5	8	0
LT Vol	0	0	0	0
Through Vol	0	5	8	0
RT Vol	0	0	0	0
Lane Flow Rate	0	5	9	0
Geometry Grp	1	1	1	1
Degree of Util (X)	0	0.006	0.01	0
Departure Headway (Hd)	3.959	3.941	3.938	3.959
Convergence, Y/N	Yes	Yes	Yes	Yes
Cap	0	913	914	0
Service Time	1.965	1.942	1.939	1.965
HCM Lane V/C Ratio	0	0.005	0.01	0
HCM Control Delay	7	7	7	7
HCM Lane LOS	N	A	A	N
HCM 95th-tile Q	0	0	0	0

APPENDIX E
LEFT TURN STORAGE CALCULATIONS

2: Sun Valley Boulevard & 5th Avenue



Lane Group	EBT	WBT	NBL	NBT	SBL	SBT
Lane Group Flow (vph)	89	248	19	453	14	1224
v/c Ratio	0.19	0.67	0.12	0.24	0.03	0.65
Control Delay	9.5	24.3	9.9	7.2	7.3	11.2
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay	9.5	24.3	9.9	7.2	7.3	11.2
Queue Length 50th (ft)	11	59	2	31	2	118
Queue Length 95th (ft)	25	87	13	60	9	211
Internal Link Dist (ft)	2354	335		1264		673
Turn Bay Length (ft)			100		100	
Base Capacity (vph)	654	517	163	1976	513	1985
Starvation Cap Reductn	0	0	0	0	0	0
Spillback Cap Reductn	0	0	0	0	0	0
Storage Cap Reductn	0	0	0	0	0	0
Reduced v/c Ratio	0.14	0.48	0.12	0.23	0.03	0.62

Intersection Summary

4: Sun Valley Boulevard & 4th Avenue



Lane Group	EBT	EBR	WBT	NBL	NBT	NBR	SBL	SBT
Lane Group Flow (vph)	19	49	272	7	396	50	16	1439
v/c Ratio	0.05	0.11	0.74	0.05	0.19	0.05	0.03	0.70
Control Delay	14.5	9.5	31.1	8.3	6.8	2.7	6.9	12.0
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay	14.5	9.5	31.1	8.3	6.8	2.7	6.9	12.0
Queue Length 50th (ft)	5	5	78	1	31	0	2	167
Queue Length 95th (ft)	14	19	111	7	57	13	10	266
Internal Link Dist (ft)	2354		256		793			1264
Turn Bay Length (ft)		275		100		75	100	
Base Capacity (vph)	492	553	463	129	2043	935	557	2042
Starvation Cap Reductn	0	0	0	0	0	0	0	0
Spillback Cap Reductn	0	0	0	0	0	0	0	0
Storage Cap Reductn	0	0	0	0	0	0	0	0
Reduced v/c Ratio	0.04	0.09	0.59	0.05	0.19	0.05	0.03	0.70

Intersection Summary

2: Sun Valley Boulevard & 5th Avenue



Lane Group	EBT	WBT	NBL	NBT	SBL	SBT
Lane Group Flow (vph)	76	219	48	1384	22	664
v/c Ratio	0.19	0.63	0.11	0.67	0.15	0.32
Control Delay	12.0	25.0	6.9	10.0	9.7	6.6
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay	12.0	25.0	6.9	10.0	9.7	6.6
Queue Length 50th (ft)	12	57	6	129	3	47
Queue Length 95th (ft)	34	98	22	245	16	93
Internal Link Dist (ft)	2354	335		1264		673
Turn Bay Length (ft)			100		100	
Base Capacity (vph)	582	498	450	2166	151	2187
Starvation Cap Reductn	0	0	0	0	0	0
Spillback Cap Reductn	0	0	0	0	0	0
Storage Cap Reductn	0	0	0	0	0	0
Reduced v/c Ratio	0.13	0.44	0.11	0.64	0.15	0.30

Intersection Summary

4: Sun Valley Boulevard & 4th Avenue



Lane Group	EBT	EBR	WBT	NBL	NBT	NBR	SBL	SBT
Lane Group Flow (vph)	34	34	195	43	1403	207	20	751
v/c Ratio	0.10	0.09	0.59	0.10	0.61	0.19	0.12	0.33
Control Delay	14.5	6.3	22.2	6.8	9.0	2.8	8.7	6.3
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay	14.5	6.3	22.2	6.8	9.0	2.8	8.7	6.3
Queue Length 50th (ft)	8	0	43	5	121	6	2	49
Queue Length 95th (ft)	20	12	76	21	252	35	14	105
Internal Link Dist (ft)	2354		256		793			1264
Turn Bay Length (ft)		275		100		75	100	
Base Capacity (vph)	535	592	506	433	2312	1086	167	2307
Starvation Cap Reductn	0	0	0	0	0	0	0	0
Spillback Cap Reductn	0	0	0	0	0	0	0	0
Storage Cap Reductn	0	0	0	0	0	0	0	0
Reduced v/c Ratio	0.06	0.06	0.39	0.10	0.61	0.19	0.12	0.33

Intersection Summary

Queues
2: Sun Valley Boulevard & 5th Avenue

2023 AM Background



Lane Group	EBT	WBT	NBL	NBT	SBL	SBT
Lane Group Flow (vph)	96	266	20	479	15	1290
v/c Ratio	0.20	0.71	0.14	0.26	0.03	0.69
Control Delay	10.5	25.9	10.5	7.4	7.5	12.1
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay	10.5	25.9	10.5	7.4	7.5	12.1
Queue Length 50th (ft)	14	65	3	35	2	134
Queue Length 95th (ft)	29	94	14	64	10	228
Internal Link Dist (ft)	2354	335		1264		673
Turn Bay Length (ft)			100		100	
Base Capacity (vph)	631	500	153	1921	486	1931
Starvation Cap Reductn	0	0	0	0	0	0
Spillback Cap Reductn	0	0	0	0	0	0
Storage Cap Reductn	0	0	0	0	0	0
Reduced v/c Ratio	0.15	0.53	0.13	0.25	0.03	0.67
Intersection Summary						

4: Sun Valley Boulevard & 4th Avenue



Lane Group	EBT	EBR	WBT	NBL	NBT	NBR	SBL	SBT
Lane Group Flow (vph)	22	52	290	9	417	53	17	1518
v/c Ratio	0.05	0.11	0.77	0.07	0.21	0.06	0.03	0.75
Control Delay	14.5	9.6	32.6	8.8	7.1	2.7	7.1	13.5
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay	14.5	9.6	32.6	8.8	7.1	2.7	7.1	13.5
Queue Length 50th (ft)	5	6	85	1	34	0	2	194
Queue Length 95th (ft)	15	20	118	8	60	13	10	292
Internal Link Dist (ft)	2354		256		793			1264
Turn Bay Length (ft)		275		100		75	100	
Base Capacity (vph)	504	552	462	129	2013	924	538	2013
Starvation Cap Reductn	0	0	0	0	0	0	0	0
Spillback Cap Reductn	0	0	0	0	0	0	0	0
Storage Cap Reductn	0	0	0	0	0	0	0	0
Reduced v/c Ratio	0.04	0.09	0.63	0.07	0.21	0.06	0.03	0.75
Intersection Summary								

Queues
2: Sun Valley Boulevard & 5th Avenue

2023 PM Background



Lane Group	EBT	WBT	NBL	NBT	SBL	SBT
Lane Group Flow (vph)	81	232	52	1457	24	699
v/c Ratio	0.19	0.66	0.13	0.71	0.18	0.34
Control Delay	12.0	26.2	7.2	10.8	10.5	6.8
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay	12.0	26.2	7.2	10.8	10.5	6.8
Queue Length 50th (ft)	13	62	7	146	3	52
Queue Length 95th (ft)	35	104	24	268	17	98
Internal Link Dist (ft)	2354	335		1264		673
Turn Bay Length (ft)			100		100	
Base Capacity (vph)	573	485	420	2129	142	2149
Starvation Cap Reductn	0	0	0	0	0	0
Spillback Cap Reductn	0	0	0	0	0	0
Storage Cap Reductn	0	0	0	0	0	0
Reduced v/c Ratio	0.14	0.48	0.12	0.68	0.17	0.33
Intersection Summary						

4: Sun Valley Boulevard & 4th Avenue



Lane Group	EBT	EBR	WBT	NBL	NBT	NBR	SBL	SBT
Lane Group Flow (vph)	37	36	207	46	1477	219	22	791
v/c Ratio	0.11	0.09	0.65	0.12	0.67	0.21	0.16	0.36
Control Delay	16.7	6.9	27.7	6.8	9.9	2.8	9.9	6.5
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay	16.7	6.9	27.7	6.8	9.9	2.8	9.9	6.5
Queue Length 50th (ft)	10	0	55	5	145	8	3	58
Queue Length 95th (ft)	24	13	92	22	272	37	16	112
Internal Link Dist (ft)	2354		256		793			1264
Turn Bay Length (ft)		275		100		75	100	
Base Capacity (vph)	463	519	439	383	2200	1040	136	2195
Starvation Cap Reductn	0	0	0	0	0	0	0	0
Spillback Cap Reductn	0	0	0	0	0	0	0	0
Storage Cap Reductn	0	0	0	0	0	0	0	0
Reduced v/c Ratio	0.08	0.07	0.47	0.12	0.67	0.21	0.16	0.36

Intersection Summary

Queues
2: Sun Valley Boulevard & 5th Avenue

2023 AM Background Plus Project



Lane Group	EBT	WBT	NBL	NBT	SBL	SBT
Lane Group Flow (vph)	108	266	20	489	15	1297
v/c Ratio	0.23	0.67	0.14	0.26	0.03	0.69
Control Delay	11.2	23.8	10.5	7.4	7.5	12.1
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay	11.2	23.8	10.5	7.4	7.5	12.1
Queue Length 50th (ft)	17	64	3	35	2	134
Queue Length 95th (ft)	32	92	14	65	10	230
Internal Link Dist (ft)	2354	335		1264		673
Turn Bay Length (ft)			100		100	
Base Capacity (vph)	611	529	152	1923	482	1932
Starvation Cap Reductn	0	0	0	0	0	0
Spillback Cap Reductn	0	0	0	0	0	0
Storage Cap Reductn	0	0	0	0	0	0
Reduced v/c Ratio	0.18	0.50	0.13	0.25	0.03	0.67
Intersection Summary						

Queues
4: Sun Valley Boulevard & 4th Avenue

2023 AM Background Plus Project



Lane Group	EBT	EBR	WBT	NBL	NBT	NBR	SBL	SBT
Lane Group Flow (vph)	33	123	290	27	417	53	17	1521
v/c Ratio	0.08	0.27	0.77	0.21	0.21	0.06	0.03	0.76
Control Delay	14.9	13.9	32.9	12.6	7.1	2.7	7.1	13.7
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay	14.9	13.9	32.9	12.6	7.1	2.7	7.1	13.7
Queue Length 50th (ft)	8	25	85	4	34	0	2	196
Queue Length 95th (ft)	19	45	119	21	60	13	10	292
Internal Link Dist (ft)	2354		256		793		1264	
Turn Bay Length (ft)	275		100		75		100	
Base Capacity (vph)	489	555	459	129	2003	919	535	2000
Starvation Cap Reductn	0	0	0	0	0	0	0	0
Spillback Cap Reductn	0	0	0	0	0	0	0	0
Storage Cap Reductn	0	0	0	0	0	0	0	0
Reduced v/c Ratio	0.07	0.22	0.63	0.21	0.21	0.06	0.03	0.76
Intersection Summary								

Queues
2: Sun Valley Boulevard & 5th Avenue



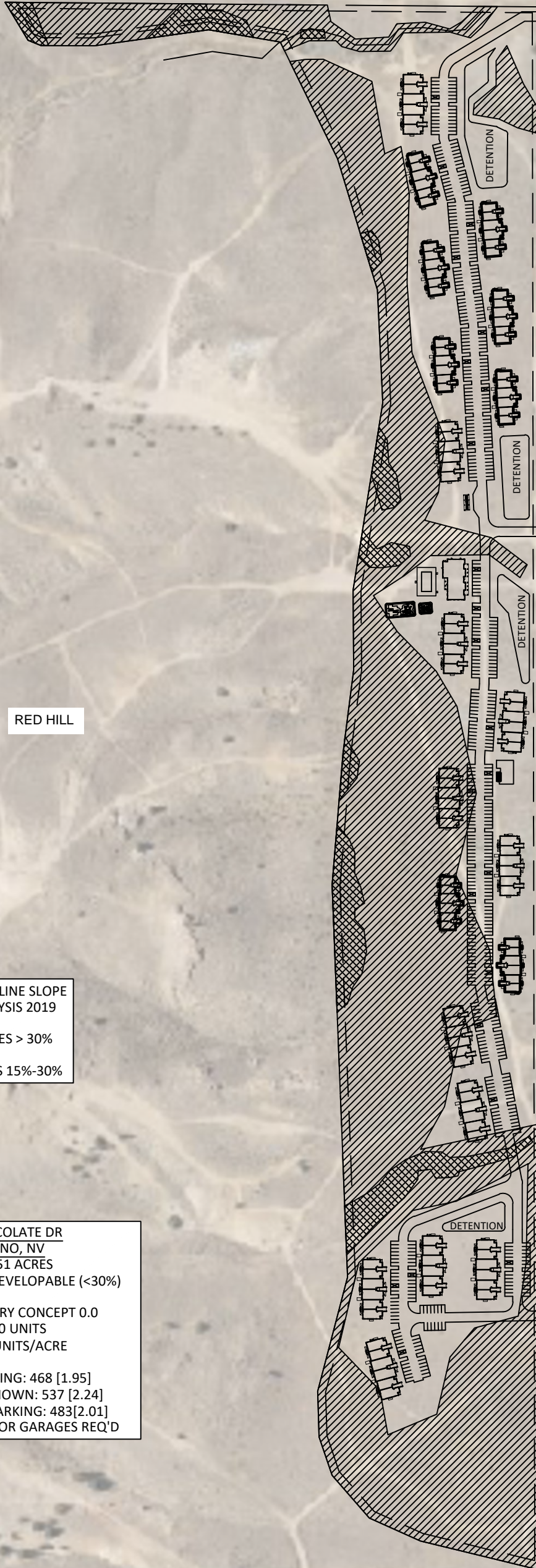
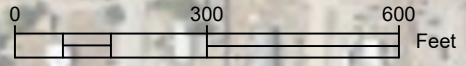
Lane Group	EBT	WBT	NBL	NBT	SBL	SBT
Lane Group Flow (vph)	88	232	52	1462	24	717
v/c Ratio	0.21	0.66	0.13	0.71	0.18	0.35
Control Delay	12.6	26.0	7.3	10.9	10.5	6.9
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay	12.6	26.0	7.3	10.9	10.5	6.9
Queue Length 50th (ft)	15	62	7	147	3	53
Queue Length 95th (ft)	38	104	24	270	17	101
Internal Link Dist (ft)	2354	335		1264		673
Turn Bay Length (ft)			100		100	
Base Capacity (vph)	562	487	410	2127	141	2144
Starvation Cap Reductn	0	0	0	0	0	0
Spillback Cap Reductn	0	0	0	0	0	0
Storage Cap Reductn	0	0	0	0	0	0
Reduced v/c Ratio	0.16	0.48	0.13	0.69	0.17	0.33
Intersection Summary						

Queues
4: Sun Valley Boulevard & 4th Avenue



Lane Group	EBT	EBR	WBT	NBL	NBT	NBR	SBL	SBT
Lane Group Flow (vph)	44	78	207	102	1477	219	22	799
v/c Ratio	0.14	0.19	0.66	0.27	0.67	0.21	0.16	0.36
Control Delay	17.1	5.9	27.7	8.7	10.0	2.8	10.0	6.6
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay	17.1	5.9	27.7	8.7	10.0	2.8	10.0	6.6
Queue Length 50th (ft)	11	0	55	13	145	8	3	58
Queue Length 95th (ft)	27	18	93	46	272	37	16	112
Internal Link Dist (ft)	2354		256		793		1264	
Turn Bay Length (ft)	275		100		75		100	
Base Capacity (vph)	451	549	438	380	2196	1039	135	2191
Starvation Cap Reductn	0	0	0	0	0	0	0	0
Spillback Cap Reductn	0	0	0	0	0	0	0	0
Storage Cap Reductn	0	0	0	0	0	0	0	0
Reduced v/c Ratio	0.10	0.14	0.47	0.27	0.67	0.21	0.16	0.36
Intersection Summary								

APPENDIX F
SITE PLAN



W 5TH ST



W 4TH ST

W GEPFORD PKWY

BROWNLEE LN

W 2ND AVE

RED HILL

PER ONLINE SLOPE ANALYSIS 2019
 SLOPES > 30%
 SLOPES 15%-30%

CHOCOLATE DR
RENO, NV
45.51 ACRES
43.26 ACRES DEVELOPABLE (<30%)

PRELIMINARY CONCEPT 0.0
 240 UNITS
 5.55 UNITS/ACRE

REQ PARKING: 468 [1.95]
 PARKING SHOWN: 537 [2.24]
 ASSUMED PARKING: 483[2.01]
 240 CARPORT OR GARAGES REQ'D



**PHASE I
ENVIRONMENTAL SITE ASSESSMENT**

For

**45.51 ACRES OF LAND
WEST OF CHOCOLATE DRIVE
SUN VALLEY, NV 89433**

Prepared for

**PEDCOR INVESTMENTS,
A LIMITED LIABILITY COMPANY
770 THIRD AVENUE SW
CARMEL, INDIANA 46032**

Prepared by

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AEI PROJECT NO.: 21-198

Inspection Dates: November 4, 2021 and November 5, 2021

Report Date: December 7, 2021

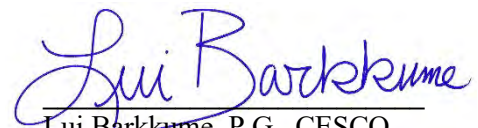

Lui Barkkume, P.G., CESCO
Environmental Project Manager
TX Professional Geologist, # 1937

TABLE OF CONTENTS

EXECUTIVE SUMMARY	iv
1.0 INTRODUCTION	1
1.1 Purpose.....	1
1.2 Detailed Scope of Services.....	1
1.3 Significant Assumptions	1
1.4 Limitations and Exceptions.....	2
1.5 Special Terms and Conditions	2
1.6 User Reliance	3
2.0 SITE DESCRIPTION	4
2.1 Location and Legal Description	4
2.2 Site and Vicinity General Characteristics	4
2.3 Current Use of the Project Site.....	4
2.4 Description of Site Improvements	4
2.5 Current Use of Adjoining Properties.....	4
3.0 USER PROVIDED INFORMATION	6
3.1 Title Records.....	6
3.2 Environmental Liens or Activity and Use Limitation	6
3.3 Specialized Knowledge.....	6
3.4 Commonly Known or Reasonably Ascertainable Information	6
3.5 Valuation Reduction for Environmental Issues.....	6
3.6 Obvious Indicators of a Release.....	6
3.7 Owner, Property Manager, and Occupant Information	7
3.8 Reason for Performing Phase I ESA	7
3.9 Other	7
4.0 RECORDS REVIEW.....	8
4.1 Standard Environmental Record Sources.....	8
4.1.1 Vapor Encroachment Screen	15
4.2 Additional Environmental Record Sources.....	15
4.3 Physical Setting Sources	16
4.3.1 Topography.....	16
4.3.2 Soils/Geology	16
4.3.3 Hydrology	17
4.3.4 Oil and Gas Exploration	18
4.3.5 Limited Noise Evaluation	18
4.3.6 Historic Preservation	19
4.3.7 Flood Zone and Floodplain Management.....	19
4.3.8 Wetlands Protection.....	20
4.3.9 Federal Endangered Species	22
4.3.10 Explosive/Flammable Hazards	24
4.3.11 Coastal Barrier Resources.....	24
4.3.12 Coastal Zone Management	24
4.3.13 Sole Source Aquifers	24
4.3.14 Airport Clear Zones	24
4.3.15 Prime Farmland	24
4.3.16 Other Federal or State Laws	25
4.3.17 Commonly Found or Observed Additional Hazards and Nuisances.....	25

4.4	Historical Use Information on The Project Site	26
4.4.1	Aerial Photographs	26
4.4.2	Fire Insurance Maps	26
4.4.3	City Directories.....	26
4.4.4	Historical Topographic Maps	27
4.4.5	Additional Historical Record Sources	27
4.4.6	Prior Assessment Reports	27
4.5	Historical Use Information on Adjoining Properties	27
5.0	SITE RECONNAISSANCE	28
5.1	Methodology And Limiting Conditions	28
5.2	General Site Setting	28
5.3	Exterior Observations	28
5.3.1	Solid Waste Disposal	28
5.3.2	Surface Water Drainage.....	28
5.3.3	Wells and Cisterns	28
5.3.4	Wastewater	28
5.3.5	Additional Site Observations	28
5.4	Interior Observations.....	29
5.5	Potential Environmental Conditions	29
5.5.1	Hazardous Materials and Petroleum Products Used or Stored at the Site.....	29
5.5.2	Evidence of Releases	29
5.5.3	Polychlorinated Biphenyls (PCBs)	29
5.5.4	Landfills.....	30
5.5.5	Pits, Ponds, Lagoons, Sumps, and Catch Basins	30
5.5.6	On-Site ASTs and USTs.....	30
5.5.7	Radiological Hazards.....	30
5.5.8	Drinking Water.....	30
5.5.9	Septic Systems or Cesspools.....	30
5.5.10	Additional Hazard Observations.....	30
5.5.11	Asbestos-Containing Materials (ACM)	30
5.5.12	Lead-Based Paint	31
5.5.13	Mold Evaluation	31
5.5.14	Radon.....	31
6.0	INTERVIEWS.....	33
6.1	Interview with Owner.....	33
6.2	Interview with Site Manager	33
6.3	Interview with Occupants.....	33
6.4	Interview with Local Government Officials.....	33
6.5	Interview with Others.....	33
7.0	FINDINGS AND CONCLUSIONS.....	34
7.1	Findings	34
7.1.1	On-Site Recognized Environmental Conditions	34
7.1.2	Off-Site Recognized Environmental Conditions	34
7.1.3	Historical Recognized Environmental Conditions.....	34
7.1.4	Controlled Recognized Environmental Conditions	34
7.1.5	De Minimis Conditions.....	34
7.2	Opinion	34
7.3	Conclusions.....	34
7.4	Recommendations.....	34
7.5	Deviations	35

8.0 REFERENCES 36
9.0 SIGNATURES OF ENVIRONMENTAL PROFESSIONALS 38
10.0 QUALIFICATIONS OF ENVIRONMENTAL PROFESSIONALS 39

List of Appendices

Appendix A Photographic Documentation
Appendix B Figures
Appendix C Regulatory Database Report
Appendix D Tier 1 Vapor Encroachment Screen
Appendix E Interviews and Public Records
Appendix F Research Documentation
Appendix G Qualifications of Environmental Professionals
Appendix H Terminology

List of Figures

Figure 1 Location Map
Figure 2 USGS Topographic Map
Figure 3 2021 Aerial Photograph

EXECUTIVE SUMMARY

Arkose Environmental, Inc. (AEI) has performed a Phase I Environmental Site Assessment (ESA) in general accordance with the scope of work and limitations set forth by Pedcor Investments, A Limited Liability Company for 45.51 acres of land located west of Chocolate Drive in Sun Valley, Washoe County, Nevada (the “Project”).

The Phase I Environmental Site Assessment is designed to provide Pedcor Investments, A Limited Liability Company with an assessment concerning environmental conditions (limited to those issues identified in the report) as they exist at the Project Site. This assessment was conducted utilizing generally accepted ESA industry standards in accordance with ASTM E 1527-13, Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process.

On the date AEI’s site reconnaissance, November 4, 2021 and November 5, 2021, the Project Site was unoccupied land covered with bare soil, grasses, gravel, boulders, brush, and scattered coniferous trees. Improvements to the Project Site are limited to buried utilities along Chocolate Drive and a stormwater drainage ditch, with culvert, along a portion of the north Project boundary. The Project is situated in a mixed-use area of Sun Valley characterized by single-family residences, Red Hill Park, a school, and commercial development. Adjoining properties include a large open space known as Red Hill Park / Red Hill Open Space with a water tower/tank and radio antenna beyond, ranchland, and single-family residences. According to the Washoe County GIS Zoning Map, the Project Site is zoned as medium density suburban (MDS). The Project Site is currently accessible from an unimproved roadway known as Chocolate Drive and the west terminuses of W. 2nd Avenue, W. 4th Avenue, and W. 5th Avenue.

AEI obtained and reviewed a database report from Environmental Risk Information Services (ERIS) for the Project Site and the surrounding area. Eight (8) State and one (1) County regulated sites were identified within the database search. No sites were identified as potential concerns to the Project Site.

AEI prepared a Tier 1 Vapor Encroachment Screen report for the Project Site and surrounding areas in compliance with ASTM E 2600-15 “Standard Guide for Vapor Encroachment Screening on Property Involved in Real Estate Transactions” using the ERIS Xplorer Vapor Screening Tool and Database report. Based on the database report, site observations, and the Vapor Encroachment Screen distances of up to 1/10 of a mile for petroleum contamination and up to 1/3 of a mile for other volatile compounds, no sites impacted by petroleum products or other hazardous chemicals that produce vapors were identified as potential vapor encroachment concerns to the Project Site.

Conclusions

AEI has performed a Phase I Environmental Site Assessment in conformance with the scope and limitations of ASTM Practice E 1527-13 of the proposed multifamily development located at E. Mulberry Street and Potomac Street in the City of Sun Valley, Washoe County, Nevada. Any exceptions to or deletions from this practice are described in Section 1.4 of this report. This assessment has revealed no evidence of recognized environmental conditions in connection with the Project Site.

Recommendations

Based on the conclusions of this assessment, AEI does not recommend further investigation of the Project Site at this time.

This executive summary does not contain all the information that is found in the full report. The report should be read in its entirety to obtain a more complete understanding of the information provided and to aid in any decisions made or actions taken based on this information.

1.0 INTRODUCTION

Arkose Environmental, Inc. (AEI) was retained by Pedcor Investments, A Limited Liability Company to conduct a Phase I Environmental Site Assessment (ESA) for 45.51 acres of land located west of Chocolate Drive in Sun Valley, Washoe County, Nevada (the Project or Project Site). The protocol used for this assessment is in general conformance with ASTM E 1527-13, Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process.

On November 4, 2021 and November 5, 2021, Ms. Lui Barkkume, representative of AEI, conducted a site reconnaissance to assess the possible presence of petroleum products, hazardous materials and/or other environmental concerns that may exist with respect to the Project Site.

AEI contracted Environmental Risk Information Services (ERIS), to perform a computer database search for local, state, and Federal regulatory records pertaining to environmental concerns for the Project Site and properties in the vicinity of the Project (see Section 3.0).

1.1 Purpose

The purpose of this Phase I ESA was to identify existing or potential Recognized Environmental Conditions (as defined by ASTM Standard E 1527-13) in connection with the Project property. Additionally, HUD requires an initial determination as a part of the Department's overall environmental responsibilities pursuant to 24 CFR 50.3(i). AEI understands that the findings of this study will be used by Pedcor Investments, A Limited Liability Company to evaluate a pending financial transaction in connection with the Project Site.

1.2 Detailed Scope of Services

The scope of work for this ESA is in general accordance with the requirements of ASTM Standard E 1527-13. AEI warrants that the findings and conclusions contained herein were accomplished in accordance with the methodologies set forth in the Scope of Work. These methodologies are described as representing good commercial and customary practice for conducting an Environmental Site Assessment of a property for the purpose of identifying recognized environmental conditions.

No other warranties are implied or expressed.

1.3 Significant Assumptions

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

1.4 Limitations and Exceptions

The findings and conclusions contain all of the limitations inherent in these methodologies that are referred to in ASTM 1527-13. Specific limitations and exceptions to this ESA are more specifically set forth below:

- **Information Requests:** AEI requested the diameter, contents, and operational pressure of the Southwest Gas owned buried high-pressure natural gas pipeline located 1-mile south of the Project from Southwest Gas. AEI had not received a response from Southwest Gas prior to the completion of this Phase I ESA.
- **Data Gaps:** aerial photographs 1946, topographic maps 1950, city directories 1977 AEI was not able to document the historical use of the Project Site prior to 1946, since historical fire insurance maps were not available for the Project area, provided city directories were not available for the Project Site area prior to the year 1977, topographic maps were not reasonably ascertainable from local agencies and other historical sources for years prior to 1950 or aerial photographs prior to 1946. This data failure is not considered critical and does not change the conclusions of this report, as readily available historical aerial photographs revealed the Project Site to be vacant land. In addition, the adjacent and surrounding areas are also shown mostly as undeveloped land.

The limitations listed above are not considered critical and do not change the conclusions of this report, as the area reconnaissance, readily available historical documentation, and interviews with persons familiar with the Project Site revealed the current and historical use of the Project Site.

1.5 Special Terms and Conditions

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

Some of the information provided in this report is based upon personal interviews, and research of available documents, records, and maps held by the appropriate government and private agencies. This is subject to the limitations of historical documentation, availability, and accuracy of pertinent records, and the personal recollections of those persons contacted.

According to ASTM 1527-13, a Phase I Environmental Site Assessment is valid for up to one year prior to the purchase date of the Project Site or the date of the intended transaction (for transactions not involving acquisition). However, the following components must be current to within 180 days of the purchase date or the date of the intended transaction.

- Interviews
- Searches for recorded environmental cleanup liens
- Reviews of federal, tribal, state, and local government records
- Visual inspections of the facility and adjoining properties
- The declaration by the environmental professional responsible for the assessment or update

1.6 User Reliance

This report is for the use and benefit of and may be relied upon by The Department of Housing and Urban Development, Nevada Department of Housing and Community Affairs, Merchants Capital, Pedcor Investments, A Limited Liability Company, and their successors and assigns, as well as the lending institution in connection with a secured financing of the subject property (Project). Additional parties cannot rely on this report without written consent from AEI. Any third parties third party agrees by accepting this report that any use or reliance on this report shall be limited by the exceptions and limitations in this report, the terms and conditions under which this project was conducted, and with the acknowledgment that actual subject property conditions may change with time, and that hidden conditions may exist at the subject property that were not discoverable within the authorized scope of the assessment.

Third party reliance letters may be issued on request and upon payment of the, then current fee for such letters. All third parties relying on AEI's reports, by such reliance, agree to be bound by the proposal and AEI's General Conditions. No reliance by any party is permitted without such agreement, regardless of the content of the reliance letter itself.

AEI makes no other representation to any third party except that it has used the degree of care and skill ordinarily exercised by environmental consultants in the preparation of the report and in the assembling of data and information related thereto. No other warranties are made to any third party, either express or implied.

2.0 SITE DESCRIPTION

2.1 Location and Legal Description

The physical addresses currently assigned to the Project Site are 0 Chocolate Drive and 0 W. Gepford Parkway. The Project Site is located west of Chocolate Drive in Washoe County, Nevada. According to the Washoe County Appraisal District online database, the Project Site is identified by the following assessor's parcel numbers: 512-250-09 and 512-250-10. The legal description for the Project Site is as follows:

*PARCEL 4, PARCEL MAP No.3767, A PORTION OF SECTION 24, T .20 N. - R19 E.,
M.D.B.&M. WASHOE COUNTY, NEVADA*

2.2 Site and Vicinity General Characteristics

The Project is situated in a mixed-use area of Sun Valley characterized by single-family residences, Red Hill Park, a school, and commercial development. According to the Washoe County GIS Zoning Map, the Project Site is zoned as medium density suburban (MDS). The Project Site is currently accessible from an unimproved roadway known as Chocolate Drive and the west terminuses of W. 2nd Avenue, W. 4th Avenue, and W. 5th Avenue.

2.3 Current Use of the Project Site

At the present time, the Project Site is unoccupied.

2.4 Description of Site Improvements

Improvements to the Project Site are limited to buried utilities along Chocolate Drive and a stormwater drainage ditch, with culvert, along a portion of the north Project boundary. A site plan showing the Project Site is included as Figure 3. Photographs showing prominent features of the site are provided in Appendix A.

Utilities

Utility systems identified in the Project Site area as follows:

- Water services in the Project area are provided by Truckee Meadows Water Authority
- Wastewater, and stormwater services in the Project area are provided by the City of Reno.
- Electricity in Sun Valley, Nevada is provided by NV Energy.

2.5 Current Use of Adjoining Properties

Current use of the adjoining properties as determined through observation, interviews and records review is described below.

North: Vacant /ranchland (5535 Wainscott Dr) and single-family residences (445 and 465 W. 5th Ave and 5505 Chocolate Dr).

South: Red Hill Park / Red Hill Open Space (1990 W 1st Ave) and water tower/tank.

East: Single-family residential neighborhood.

West: Red Hill Park / Red Hill Open Space (1990 W 1st Ave).

3.0 USER PROVIDED INFORMATION

Pursuant to ASTM E 1527-13, AEI requested the following site information from Pedcor Investments, A Limited Liability Company (User of this report). Mr. Randal S. Kuckenmeister with Chocolate Group, LLC completed a Phase I ESA Pre-Survey Questionnaire and Disclosure Statement for the Project.

3.1 Title Records

Mr. Kuckenmeister provided AEI with a Trustees Deed dated January 29, 2010, a Grant, Bargain, and Sale Deed dated August 9, 2010, and a Grant, Bargain, and Sale Deed dated May 15, 2012. AEI was able to review online title record information for the Project Site available from the Washoe County Appraisal District and Washoe County Recorder's Office land records. No records of environmental concern were identified in the provided deed records and no environmental liens or activity and use limitations recorded against or relating to the Project Site were found during AEI's County Appraisal District database and County Recorder's Office database review.

3.2 Environmental Liens or Activity and Use Limitation

AEI requested information from the User regarding knowledge of environmental liens, activity and use limitations for the Project Site. Mr. Kuckenmeister was not aware of any environmental liens associated with the Project Site. In addition, Mr. Kuckenmeister had no knowledge of any use or activity limitations.

3.3 Specialized Knowledge

AEI inquired with Mr. Kuckenmeister regarding any specialized knowledge of environmental conditions associated with the Project Site. Mr. Kuckenmeister did not have any specialized knowledge or experience that is material to recognized environmental conditions in connection with the Project Site.

3.4 Commonly Known or Reasonably Ascertainable Information

AEI inquired with the User regarding any commonly known or reasonably ascertainable information about the Project Site. Mr. Kuckenmeister was not aware of any commonly known or reasonably ascertainable information within the local community about the Project Site that is material to recognized environmental conditions in connection with the Project Site.

3.5 Valuation Reduction for Environmental Issues

AEI inquired with Mr. Kuckenmeister regarding any knowledge of reductions in property value due to environmental issues. Mr. Kuckenmeister was not aware of any valuation reductions associated with the Project Site.

3.6 Obvious Indicators of a Release

AEI inquired with Mr. Kuckenmeister regarding any knowledge and experience related to any obvious indicators that point to the presence or likely presence of releases at the Project Site. Mr. Kuckenmeister was not aware of any obvious indicators that point to the presence or likely presence of releases at the Project Site.

3.7 Owner, Property Manager, and Occupant Information

Project property is currently owned by Chocolate Group, LLC. Mr. Randal S. Kuckenmeister with Chocolate Group, LLC was identified as the Project's key site manager. The Project Site is currently unoccupied.

3.8 Reason for Performing Phase 1 ESA

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

AEI understands that the findings of this study will be used by Pedcor Investments, A Limited Liability Company to evaluate a pending financial transaction in connection with the Project Site.

3.9 Other

In addition to satisfying one of the requirements to qualify for an LLP to CERCLA liability another reason for performing a *Phase I Environmental Site Assessment* may include the need to understand potential environmental conditions that could materially impact the operation of the business associated with the parcel of *commercial real estate*.

4.0 RECORDS REVIEW

4.1 Standard Environmental Record Sources

The regulatory agency database report discussed in this section, provided by Environmental Risk Information Services (ERIS), was reviewed for information regarding reported releases of hazardous substances and petroleum products on or near the Project Site. AEI also reviewed the “unplottable” (sometimes referred to as “orphan”) listings within the database report, cross-referencing available address information and facility names when possible. Unplottable sites are listings that could not be plotted with confidence but are identified as being located within the general area of the Project Site based on the submitted property information. Any site from the unmappable listings that was identified by AEI as a result of the area reconnaissance and/or cross-referencing to mapped listings is included in the discussion within this section. The following is a summary of the findings of the database review:

Federal Regulatory Databases <i>Summary of Agency Database Findings</i>	Minimum Search Distance	Project Site Listed?	Sites Listed
Federal National Priority List (NPL)	1 mile	No	0
Proposed NPL	1 mile	No	0
Delisted NPL	1 mile	No	0
NPL Liens	Project Site	No	0
Federal CERCLIS list	½ mile	No	0
Federal CERCLIS-NFRAP	½ mile	No	0
Federal RCRA CORRACTS	1 mile	No	0
Federal RCRA non- CORRACTS TSD	½ mile	No	0
Federal RCRA Large Quantity Generators	¼ mile	No	0
Federal RCRA Small Quantity Generators	¼ mile	No	0
Federal RCRA Very Small Quantity Generators (previously referred to as Conditionally Exempt SQG)	¼ mile	No	0
Federal RCRA Non-Generators / NLR	¼ mile	No	0
Federal ERNS list	Project Site	No	0
Federal HMIRS list	Project Site	No	0
US Engineering Controls list	½ mile	No	0
US Institutional Controls list	½ mile	No	0
Department of Defense Sites (DOD)	1 mile	No	0
Formerly Used Defense Sites (FUDS)	1 mile	No	0
US Brownfields	½ mile	No	0
Superfund CERCLA Consent Decrees (CONSENT)	1 mile	No	0
Records of Decision (RODS)	1 mile	No	0
Uranium Mill Tailings Sites (UMTRA)	½ mile	No	0
Federal Open Dump Inventory (ODI)	½ mile	No	0

Federal Regulatory Databases Summary of Agency Database Findings	Minimum Search Distance	Project Site Listed?	Sites Listed
Federal TRIS list	Project Site	No	0
Federal TSCA list	Project Site	No	0
Federal FTTS list	Project Site	No	0
Federal Section 7 Tracking Systems (SSTS)	Project Site	No	0
Department of Transportation Office of Pipeline Safety (DOT OPS)	Project Site	No	0
LIENS 2	Project Site	No	0
Land Use Control Information System (LUCIS)	½ mile	No	0
Integrated Compliance Information System (ICIS)	Project Site	No	0
Radiation Information Database (RADINFO)	Project Site	No	0
Clandestine Drug Labs (CDL)	Project Site	No	0
FIFRA/TSCA Tracking Administrative Case Listing (HIST FTTS)	Project Site	No	0
Torres Martinez Reservation Illegal Dump Site Locations (DEBRIS REGION 9)	½ mile	No	0
PCB Activity Database System (PADS)	Project Site	No	0
Material Licensing Tracking System (MLTS)	Project Site	No	0
Mines Master Index File (MINES)	¼ mile	No	0
Federal Facility Index System (FINDS)	Project Site	No	0
RCRA Administrative Action System (RAATS)	Project Site	No	0
Groundwater Contamination Inventory (GWCI)	½ mile	No	0

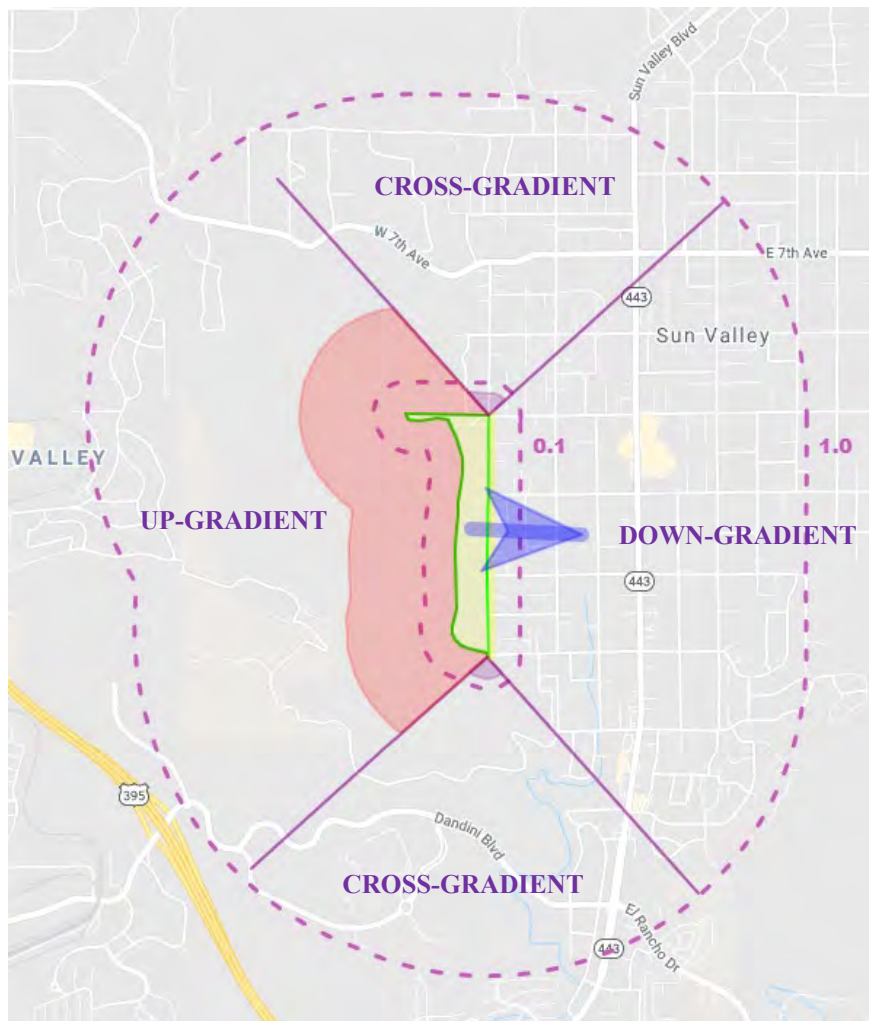
State and Local Regulatory Databases Summary of Agency Database Findings	Minimum Search Distance	Project Site Listed?	Sites Listed
State Superfund Registry (SHWS)	1 mile	No	4
Delisted Superfund Registry Sites (DEL SHWS)	1 mile	No	1
State Cleanup Sites (SCP)	½ mile	No	0
Innocent Owner/Operator Program (IOP)	Project Site	No	0
State Non-Hazardous Inventory Sites (NON-HSI)	1 mile	No	0
State Hazardous Substance Disposal Sites	1 mile	No	0
Industrial Hazardous Waste	¼ mile	No	0
Industrial Hazardous Waste Corrective Action	¼ mile	No	0
State Closed Landfill Inventory (CLI)	½ mile	No	0
State Permitted Solid Waste Facilities (SWF/LF)	½ mile	No	2
Commercial Hazardous & Solid Waste Management Facilities	Project Site	No	0

State and Local Regulatory Databases Summary of Agency Database Findings	Minimum Search Distance	Project Site Listed?	Sites Listed
State Trust Fund Database (LUST TRUST)	½ mile	No	0
State Leaking Underground Storage Tanks (LUST)/Leaking Storage Tanks (LST)	½ mile	No	1
Delisted Leaking Storage Tanks (Delisted LST)	½ mile	No	0
State Leaking Aboveground Storage Tanks (LAST)	½ mile	No	0
State Registered Underground Storage Tanks (UST)	¼ mile	No	0
State Registered Aboveground Storage Tanks (AST)	1 mile	No	0
Incident Management Database (IMD)	½ mile	No	0
Groundwater Contamination Case (GCC)	Project Site	No	0
LIENS	Project Site	No	0
State Spills Database	Project Site	No	0
Historical Spills (HIS SPILLS)	1/8 mile	No	0
Sites with Controls (AUL)	½ mile	No	0
State Voluntary Cleanup Program Database (VCP)	½ mile	No	0
Drycleaners Registration Database Listing	¼ mile	No	0
Brownfields	½ mile	No	0
US Brownfields	½ mile	No	0
Notice of Violations Listing (ENF)	Project Site	No	0
State Industrial & Hazardous Waste Database	Project Site	No	0
Recycling Center Listing (SWRCY)	½ mile	No	0
Current Emission Inventory Database (AIRS)	Project Site	No	0
Tier 2 Chemical Inventory Reports (TIER 2)	Project Site	No	0
Municipal Settings Designations Database (MSD)	½ mile	No	0
Radioactive Waste Sites (RWS)	Project Site	No	0
Historic Liens	Project Site	No	0
Registry of Conditional Remedies (RCR)	½ mile	No	0
Hazardous Waste Sites – Corrective Action (HAZ CORRACT)	1 mile	No	0
VFC Hazardous Waste Sites (HAZ WASTE SITES)	1 mile	No	0
Virtual File Cabinet Facilities (VFC Facilities)	¼ mile	No	0
Tribal Records Summary of Agency Database Findings	Minimum Search Distance	Project Site Listed?	Sites Listed
Indian Reservations	1 mile	No	0

Tribal Records <i>Summary of Agency Database Findings</i>	Minimum Search Distance	Project Site Listed?	Sites Listed
Indian Leaking Underground Storage Tank (ILUST)	½ mile	No	0
Indian Underground Storage Tank (IUST)	¼ mile	No	0
Delisted ILUST	½ mile	No	0
Delisted IUST	¼ mile	No	0

County Records <i>Summary of Agency Database Findings</i>	Minimum Search Distance	Project Site Listed?	Sites Listed
County Leaking Underground Storage Tank (LUST)	½ mile	No	1
County Underground Storage Tank (UST)	¼ mile	No	0

General Topographic Gradient using USGS surface elevation and reported area groundwater gradient: East



Federal Agency Database Findings

No (0) sites were identified through the federal environmental records review within the approximate minimum search distance.

State Agency Database Findings

Eight (8) sites were identified through the state environmental records review within the approximate minimum search distance.

State Hazardous Waste Site (SHWS) and Delisted (SHWS): The SHWS is a list of sites available in Nevada Division of Environmental Protection (NDEP) - Bureau of Corrective Actions' Project Tracking (PT) Database. The PT Database includes both Leaking Underground Storage Tank (LUST) cases as well as Corrective Action (non-regulated) sites. This database is state equivalent CERCLIS. The Delisted SHWS database contains a list of closed hazardous substance release and Corrective Action (non-regulated) sites that were removed from the NDEP - Bureau of Corrective Actions' PT Database. Four (4) SHWS sites and one (1) Delisted SHWS site were identified within 1-mile of the Project. None of the SHWS or Delisted SHWS sites are located on the Project Site or any of its immediately adjoining properties.

FACILITY / ADDRESS	DATABASE	DISTANCE, DIRECTION, GRADIENT	STATUS / SUMMARY
Sun Valley Scholari's 5430 Sun Valley Blvd Sun Valley, NV	SHWS	0.47 mi / 2,472 ft, ENE, Down-gradient	Case Closed Closure Date: 11/02/2020 Closure Type: Clean with remediation Affected Media: Soil Program: Non-LUST Corrective Action Contaminant: Approx. 10-15 gallons of diesel fuel
Golden Gate Petroleum 5190 Sun Valley Blvd Sun Valley, NV	SHWS	0.48 mi / 2,538 ft, ESE, Down-gradient	2020 Case Closed - Program: LUST Closure Date: 01/05/2021 Closure Type: Clean with remediation Affected Media: Soil Contaminant: Diesel, Gasoline 2006 Case Open - Program: LUST Affected Media: Groundwater Contaminant: Gasoline
Truckee Meadows Community College 7000 Dandini Blvd Reno, NV 89512	Delisted SHWS	0.72 mi / 3,791 ft, SSW, Cross-gradient	Case Closed – Delisted SHWS
Sun Valley Elementary School 5490 Leon Drive Sun Valle, NV	SHWS	0.72 mi / 3,810 ft, ENE, Down-gradient	Case Closed Closure Date: 12/26/2007 Closure Type: Investigation Closed Affected Media: Groundwater Program: Non-LUST Corrective Action Contaminant: Heating Oil
Truitt Property 265 East 6 th Street Sparks, NV	SHWS	0.89 mi / 4,698 ft, ENE, Down-gradient	Case Closed - Program: Not Reported Closure Date: 05/02/1997 Closure Type: Clean with remediation Affected Media: Soil Contaminant: Heating Oil

Based on their distance from the Project Site, current regulatory status, topographic position, and/or the anticipated groundwater gradient, the SHWS or Delisted SHWS listings for the facilities in the table above do not appear to present a recognized environmental condition in connection with the Project at this time.

Solid Waste Facilities and Landfill Sites (SWF/LF): A list of permitted Solid Waste Landfills and other waste management facilities within the state of Nevada. This list is made available by the NDEP. Two (2) SWF/LF sites were identified within ½-mile of the Project. Neither of the SWF/LF sites are located on the Project or any of its immediately adjoining properties.

FACILITY / ADDRESS	DISTANCE, DIRECTION, GRADIENT	SUMMARY
AutoZone 5475 Sun Valley Blvd Sun Valley, NV	0.41 mi / 2,163 ft, ENE, Down-gradient	Status: Recycler Recycler of automotive fluid and batteries
O'Reilly Auto Parts 5415 Sun Valley Blvd Sun Valley, NV	0.44 mi / 2,307 ft, ENE, Down-gradient	Status: Unknown Recycler of automotive fluid and batteries

The facilities listed in the table above sell typical vehicle parts, accessories, and automotive lubricant & fluid products. The retail products are in their original containers. They also provide fluid and battery recycling services, which is why they are listed in the SWF/LF database. Based upon the retail (non-manufacturing and non-industrial) facility type, their distance from the Project Site, current regulatory status, topographic position, and/or the anticipated groundwater gradient, the SWF/LF listing for the facilities in the table above does not appear to present a recognized environmental condition in connection with the Project at this time.

Leaking Underground Storage Tank (LUST) Sites: The LUST database is a list of sites available from the NDEP - Bureau of Corrective Actions' PT. NDEP indicates there is no way to differentiate between LUST and other (non-LUST) Corrective Action sites - this list includes only those sites where the Program Type is LUST. One (1) LUST site was identified within ½-mile of the Project. The LUST site is not located on the Project Site or any of its immediately adjoining properties.

FACILITY / ADDRESS	DISTANCE, DIRECTION, GRADIENT	STATUS / SUMMARY
Golden Gate Petroleum 5190 Sun Valley Blvd Sun Valley, NV	0.48 mi / 2,538 ft, ESE, Down-gradient	2020 LUST Case Closed Closure Date: 01/05/2021 Closure Type: Clean with remediation Affected Media: Soil Contaminant: Diesel, Gasoline 2006 LUST Case Open Affected Media: Groundwater Contaminant: Gasoline

Based on its distance from the Project Site, topographic position, and the anticipated groundwater gradient, the LUST listing for the facility in the table above does not appear to present a recognized environmental condition in connection with the Project at this time. This site is also listed in the County LUST database and is discussed in the County Agency Database Findings.

Tribal Agency Database Findings

No (0) sites were identified through the tribal environmental records review within the approximate minimum search distance.

County Agency Database Findings

One (1) site was identified through the tribal environmental records review within the approximate minimum search distance.

Washoe County Leaking Underground Storage Tank (LUST WASHOE) Sites: A list of leaking underground storage tanks made available by the Washoe County Health District (WCHD). One (1) LUST WASHOE site was identified within ½-mile of the Project. The LUST WASHOE site is not located on the Project Site or any of its immediately adjoining properties.

FACILITY / ADDRESS	DISTANCE, DIRECTION, GRADIENT	STATUS / SUMMARY
Golden Gate Petroleum 5190 Sun Valley Blvd Sun Valley, NV	0.48 mi / 2,538 ft, ESE, Down-gradient	2020 LUST Case Closed Closure Date: 01/05/2021 Closure Type: Clean with remediation Affected Media: Soil Contaminant: Diesel, Gasoline 2006 LUST Case Open Affected Media: Groundwater Contaminant: Gasoline

Based on its distance from the Project Site, topographic position, and the anticipated groundwater gradient, the LUST listing for the facility in the table above does not appear to present a recognized environmental condition in connection with the Project at this time. This site is also listed in the State LUST database and is discussed in the preceding State Agency Database Findings.

Unplottable Sites

Unplottable sites are listings that could not be plotted with confidence but are identified as being located within the general area of the Project Site based on the submitted property information. Three (3) unplottable sites were identified in the database report.

SITE NAME	SITE LOCATION	DATABASE	SUMMARY
None provided	5310 Chocolate Dr 100 ft E of Project Down-gradient	NCDL	Clandestine Drug Lab – Location where law enforcement agency reported they found chemicals or other items that indicated the presence of either clandestine drug laboratory or dumpsite. Report Date: 05/08/2007 No other site-specific details reported.
Yellow House with many cars in yard	251 Cactus Cir, Sun Valley, NV 89433 Cross-street = Pit Ln 2,220 ft NE of Project Down-gradient	SPILLS	Report Date: 04/23/2015 Media: Soil Material: Motor Oil

SITE NAME	SITE LOCATION	DATABASE	SUMMARY
			On-site vehicle repair at residence. Used oil observed as haven been dumped onto the ground and appeared to have been a regular practice by resident.
None provided	375 Loster Way Sun Valley, NV 89433 260 ft E of Project Down-gradient Back yard near garage.	SPILLS	Report Date: 06/03/2008 Media: Soil Material: Oil Caller was walking her dog who wandered into the neighbor's back yard. She went in to get dog and saw large oil stain (5 ft across) on soil, along with buckets filled with oil. She was concerned about the oil getting into the groundwater.

Based on their topographic position, the unplotable sites listed in the table above do not appear to present a recognized environmental condition in connection with the Project at this time.

4.1.1 Vapor Encroachment Screen

AEI prepared a Tier 1 Vapor Encroachment Screen report for the Project Site and surrounding areas in compliance with ASTM E 2600-15 "Standard Guide for Vapor Encroachment Screening on Property Involved in Real Estate Transactions" using the ERIS Xplorer Vapor Screening Tool and Database Report. A Tier 1 Vapor Encroachment Screen is an investigation of all known or suspected contaminated properties within a given radius. The radius varies based on the "Chemical of Concern" at the contaminated site due to chemicals having different migration properties. Vapor Encroachment Screen distances can be up to 1/10 of a mile for petroleum contamination and up to 1/3 of a mile for other volatile compounds. The screening allows for the distances to be reduced for cross gradient and down gradient contaminated sites.

Based on the database report, site observations, and the Vapor Encroachment Screen distances of up to 1/10 of a mile for petroleum contamination and up to 1/3 of a mile for other volatile compounds, no sites impacted by petroleum products or other hazardous chemicals that produce vapors were identified as potential vapor encroachment concerns to the Project Site. A copy of the Vapor Encroachment Screen report is included in Appendix D.

4.2 Additional Environmental Record Sources

4.2.1 County Recorder/ Assessor

AEI reviewed current Washoe County Recorder's Office Land Records, including deeds, liens, agreements, easements, etc. No records of environmental concern relating to the Project Site were identified in the current Washoe County Recorder's Office recorded land title records.

4.2.2 Municipal Records

Public Information Act requests were submitted to the Washoe County Open Records Request Division for any information regarding building permits, tank permits, certificates

of occupancy, code enforcement, citizen complaints and/or investigations on the use, handling, release, or discharge of solid or liquid wastes, underground storage tanks, above ground storage tanks, hazardous materials, or other circumstances of environmental concern recorded at the project location. In addition to on-site permit records and circumstances of environmental concern recorded at the project location, AEI requested any tank permit applications and/or records for potential future storage tank use or installation as well as existing and former aboveground storage tanks and underground storage tanks within the immediate vicinity or a 1-mile radius of the Project Site addresses. A summary of the information provided by the Washoe County officials is provided in the following table:

Certificates of Occupancy:	None for Project Site
Building Permits:	None for Project Site
Fire Department Records:	None for Project Site
Code Enforcement	10 Cases on record for Project Site The cases are regarding abandoned vehicles, an abandoned mobile home (mobile home removed 4/14/2008), and illegal dumping of trash. Most recent open violation case date is 06/17/2021.

4.3 Physical Setting Sources

4.3.1 Topography

The United States Geological Survey (USGS), Reno, Nevada Quadrangle 7.5 minute series topographic map was reviewed for this ESA. This map was published by the USGS in 2015. According to the contour lines on the topographic map, the elevation of the Project Site ranges from 4,840 to 5,060 feet above mean sea level (MSL). The area containing the Project Site is depicted as being absent of any structures. An intermittent stream is depicted in a general west-east direction on the north portion of the Project. No other water conveyances are depicted on the Project Site. The general surface topography of Project Site is steeply (along the west boundary) to moderately sloping to the east. No specific environmental concerns were indicated on this map.

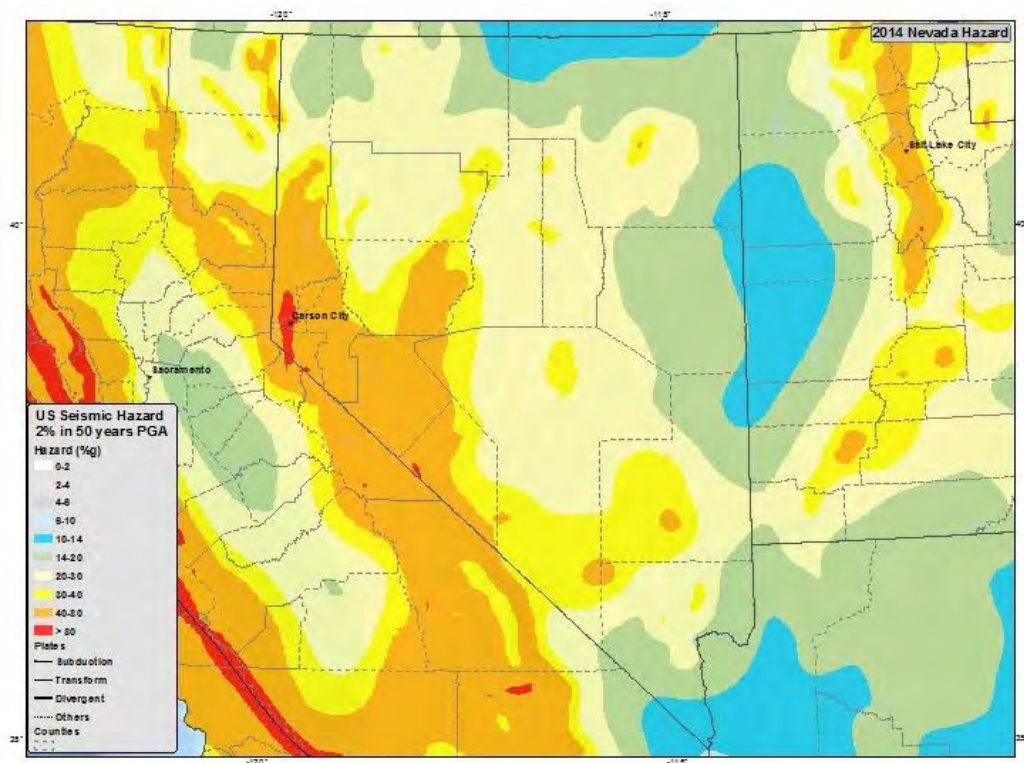
4.3.2 Soils/Geology

According to the Soil Survey of Washoe County, Nevada, Detailed Soil Map, provided by the U.S. Department of Agriculture, Soil Conservation Service, soils on the Project consist of Indian Creek sandy loam, Manogue cobbly clay, Surgem-Rock outcrop complex, Risley-Rock outcrop complex, Risley cobbly loam, and Zephan-Rock outcrop-Smallcone complex. The Indian Creek series consists of shallow to a duripan, well drained soils that formed in alluvium derived from mixed igneous rocks. The Manogue series consists of deep and very deep, well drained soils that formed in alluvium, colluvium, and residuum derived from volcanic rocks. The Surgem-Rock outcrop complex unit is 65% Surgem stony sandy loam, 30% to 50% slopes, and 20% rock outcrop. The Surgem soil is on side slopes of uplands and the rock outcrop in on ridges and peaks. The Surgem soil is moderately deep to well drained. The Risley-Rock outcrop complex is on uplands and the unit is 65%

Risley very stony loam, 15% to 30% slops, and 25% rock. The Risley soil is on side slopes of uplands and the rock outcrop in on ridges and peaks. The Risley soil is moderately deep to well drained. The Zephan-Rock outcrop-Smallcone complex unit is 30% Zephan very gravelly sandy loam, 15% to 50% slopes, 30% rock outcrop, and 25% Smallcone very gravelly sandy loam. The Zephan soil is on smooth side slopes of uplands. The rock outcrop is on ridges and peaks. The Smallcone soil is on rounded hilltops and spur ridges. The Zephan soil is moderately deep and well drained. The Smallcone soil is very shallow and well drained.

According to the U.S. Geological Survey (USGS) Geologic Map of Nevada, the Project is located on Quaternary age Alluvial deposits (Qa) and Late Miocene to Middle Miocene age Andesite and related rocks of intermediate composition (Ta3). The alluvial deposits locally include beach and sand dune deposits. The andesite and related rocks of intermediate composition include flows and breccias.

Seismic Potential: According to the 2014 USGS Seismic Hazard Map, shown below, the seismic hazard for the Property area is 40-80 %g. Meaning the earthquake shaking levels that have a certain probability of occurring, (depending on the magnitudes and locations of likely earthquakes, how often they occur and the properties of the rocks and sediments that earthquake waves travel through), within the Project area has a potential for strong shaking (earthquake peak ground acceleration that has a 2% chance of being exceeded in 50 years has a value of between 40 and 80 % gravity).



4.3.3 Hydrology

The occurrence of groundwater in Washoe County is controlled primarily by climate; the movement of groundwater is controlled primarily by geology. Climate, particularly the amount, frequency, and distribution of precipitation, determines the amount of water available

for recharging of the aquifer. Geology, particularly the physical characteristics, including composition of the rocks in the area, determines the amount of water that can be stored in the rocks and movement through the pores and cracks within.

As the driest state in the U.S., water resources in Nevada are particularly important in the desert environment. U.S. Department of the Interior Bureau of Land Management (BLM) in Nevada manages water resources both for resource values (watershed health, wildlife, riparian, etc.) and resource uses (recreation, water supply, etc.) within the framework of applicable laws, regulations, and agency policies.

Most the surface waters in Nevada are groundwater dependent ecosystems, meaning they rely on a groundwater as the main water source. Principal groundwater aquifers in Nevada include basin-fill aquifers, carbonate-rock aquifers, and volcanic rock aquifers. Of the aquifer types, any or all may be in, or underlie, a particular basin and constitute separate sources of water. Interconnection between the aquifers may also exist. Aquifer systems in southern Nevada and southern California discharge groundwater at springs, and some river drainages and playa areas. The Great Basin regional aquifer system in California, Nevada, Utah, Idaho, and Oregon is an area characterized by numerous arid to semi-arid basins with unconsolidated alluvial aquifers separated by mountain ranges often comprised of carbonate aquifers. The Project Site is located within the Great Basin regional aquifer system boundary.

4.3.4 Oil and Gas Exploration

There were no oil or gas wells observed or reported on the Project. According to the Nevada Bureau of Mines and Geology Interactive Oil and Gas Well Map, no oil and gas wells, including dry holes, plugged wells, and abandoned locations are located on the Project Site, on any of its immediately adjoining properties, or within 1.0-mile of the Project.

4.3.5 Limited Noise Evaluation

Consideration of noise for HUD insured loans applies to the acquisition of undeveloped land as well as existing development. HUD's noise standards may be found in 24 CFR Part 51, Subpart B. For proposed new construction in high noise areas, the project must incorporate noise mitigation features. All sites whose environmental or community noise exposure exceeds the day night average sound level (DNL) of 65 decibels (dB) are considered noise-impacted areas. For new construction that is proposed in high noise areas, grantees shall incorporate noise attenuation features to the extent required by HUD environmental criteria and standards contained in Subpart B (Noise Abatement and Control) of 24 CFR Part 51. The interior standard is 45dB.

The "Normally Unacceptable" noise zone includes community noise levels from above 65 decibels to 75 decibels. Approvals in this noise zone require a minimum of 5 dB additional sound attenuation for buildings having noise-sensitive uses if the day-night average sound level is greater than 65 dB but does not exceed 70 dB, or a minimum of 10 decibels of additional sound attenuation if the day-night average sound level is greater than 70 dB but does not exceed 75 dB. Locations with day-night average noise levels above 75 dB have "Unacceptable" noise exposure. For new construction, noise attenuation measures in these locations require the approval of the Assistant Secretary for Community Planning and Development (for projects reviewed under Part 50) or the Responsible Entity's Certifying

Officer (for projects reviewed under Part 58). The acceptance of such locations normally requires an environmental impact statement.

AEI performed a limited noise evaluation for the proposed multifamily development at the Project Site. No railways are located within 3,000 feet of the proposed development. Therefore, the DNL for railway noise is considered non-applicable or <65 dB. AEI performed a roadway noise evaluation to confirm that the noise level meets current HUD acceptable levels for major roadways within 1,000 feet of the proposed development. The nearest major roadway with available annual average daily traffic (AADT) counts from Nevada Department of Transportation (NDOT) is Sun Valley Blvd, which is located 2,400 feet east of the east Project boundary. No major roadways are located within 1,000 feet of the Project. Therefore, the DNL for roadway noise is considered non-applicable or <65 dB.

No military airports are located within 15 miles of the Project Site. Two (2) public airports are located within 5 miles of the Project Site; Reno-Tahoe International Airport (RNO) and Spanish Springs Airport (N86). DNL contours are available for Reno-Tahoe International Airport. Based on the airport DNL contours, the Project is outside the 65 decibel Day/Night Average Noise Level (DNL) noise contours for Reno-Tahoe International Airport. Therefore, airport noise for Reno-Tahoe International Airport is considered as non-applicable or DNL <65 dB. Noise contours were not readily available for Spanish Springs Airport. However, AEI acquired and reviewed the U.S. Department of Transportation (DOT) Federal Aviation Administration (FAA) Airport Master Record for Spanish Springs Airport, effective 12/02/2021. Based on the annual number of operations for air carriers, air taxis, military, and general aviation at Spanish Springs Airport, it is assumed that the noise attributed to the airplanes will not extend beyond the boundaries of the airport. Therefore, Spanish Springs Airport is considered non-applicable for noise attenuation.

The combined DNL value for the noise sources (airport, road, and rail) is considered <65 dB.

Note: The noise evaluation completed by AEI is a preliminary screening for HUD review; completed with client provided site plan(s) and online transportation data readily accessible through search engines utilized by the environmental professional conducting the evaluation. If the Project boundaries and/or proposed building footprints/layout changes, the noise evaluation should be updated to accommodate the revisions.

4.3.6 Historic Preservation

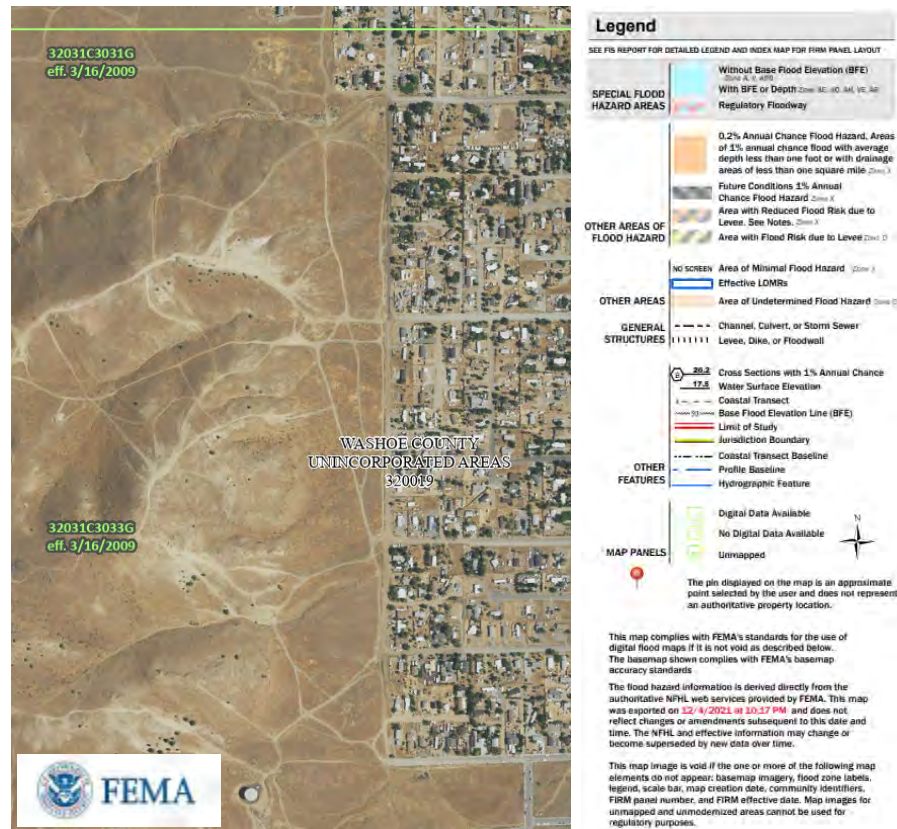
AEI reviewed the National Register of Historic Places to determine if the Project Site or adjoining properties were listed as historical sites. No (0) historical sites were identified on or within a one (1) mile radius of the Project.

4.3.7 Flood Zone and Floodplain Management

According to the Federal Emergency Management Agency's Flood Insurance Rate Map (FIRM), City of Sun Valley, Nevada, Community Panel Number 32031C3033G revised March 16, 2009, the Project Site is depicted as being within Zone X (unshaded).

Zone X (unshaded) are areas of minimal flood hazard, usually depicted on FIRMs as above the 500-year flood level. Zone X is the area determined to be outside the 500-year flood and protected by levee from 100- year flood. Zone X (shaded) are the areas between the

limits of the base flood and the 0.2-percent-annual-chance (or 500-year) flood. Warning: The preceding flood statement does not imply that the Project property or any improvements thereon will be free from flooding or flood damage. On rare occasions, greater floods can and will occur, and flood heights may be increased by man-made or natural causes.

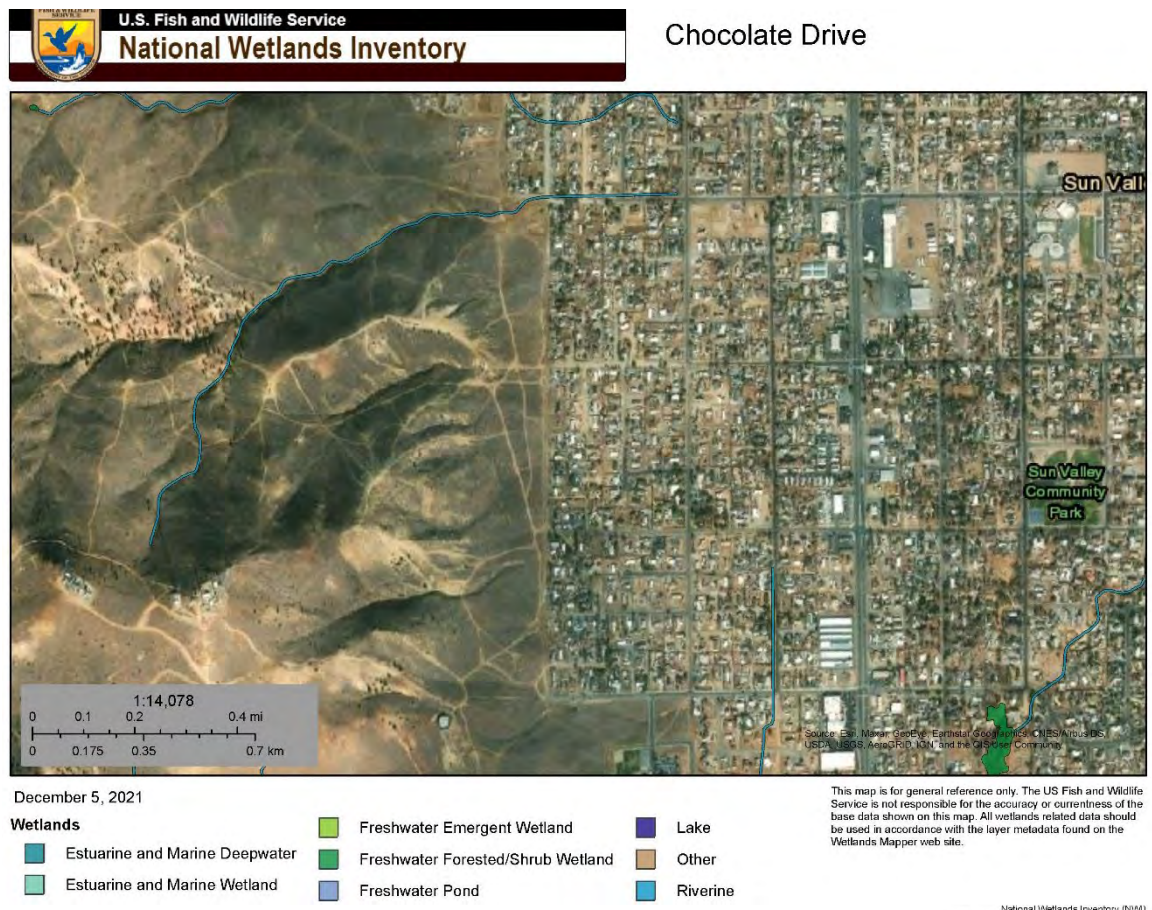


4.3.8 Wetlands Protection

Wetlands determinations consider soil type (hydric), vegetation type (hydrophytic) and hydrology, and are administered under both Section 404 of the Clean Water Act (CWA) and the Wetland Conservation provisions of the Food Security Act (FSA). The EPA has delegated authority for wetlands determinations under the CWA to the U.S. Army Corps of Engineers (USACE), while the U.S. Department of Agriculture (USDA) has delegated its authority under the FSA to the Soil Conservation Service (SCS). An interagency memorandum of agreement (59 FR 2920, Jan. 19, 1994) between these agencies as well as the Department of Interior, Fish and Wildlife Service (FWS), who are responsible for developing and maintaining the National Wetland inventory maps, established interagency responsibilities and relationships. Under the memorandum of agreement, the SCS received the authority to delineate wetlands for agricultural lands, and lands owned or operated by the USDA, in consultation with the FWS. The SCS provides county soil maps that delimit hydric soils and assist in making the wetland determination. The FWS National Wetland Inventory maps presently cover 75% of the United States (excluding Alaska). Where available, these data overlay the USGS 7.5-minute quadrangle topographic maps.

Pursuant to Section 404 of the Clean Water Act, the U.S. Army Corps of Engineers Wetlands Delineation Manual (Technical Report Y-87-1) "Wetlands" are defined as an area (including a swamp, marsh, bog, prairie pothole, or similar area) having a predominance of hydric soils that are inundated or saturated by surface or groundwater at a frequency and duration sufficient to support and that under normal circumstances supports the growth and regeneration of hydrophytic vegetation. Section 404 prohibits the discharge of dredged or fill materials into the waters of the United States unless previously authorized by a Department of the Army permit. The Corps Wetland Delineation manual requires those three criteria: wetland vegetation, wetland or hydric soils and wetland hydrology, be met for an area to be declared a jurisdictional wetland.

AEI obtained a Wetlands Map for the Project area using the U.S. FWS National Wetlands Inventory Wetland Mapper tool on December 5, 2021. Riverine wetlands are mapped transecting the north portion of the Project on the U.S. FWS National Wetlands Inventory Wetlands Map. Based upon information depicted on the National Wetlands Inventory (NWI) map obtained from the United States Fish and Wildlife Service (USFWS) online Wetland Mapper, dated December 5, 2021, the Project Site appears to contain potential jurisdictional wetlands including waters of the U.S. as defined and regulated by federal authority under 33 CFR Parts 320-330.



Stringent measures to control sediment and erosion must be implemented prior to any ground disturbance and should be maintained throughout the construction project. Should any crossing or impact to wetlands, as defined by Executive Order 11990 and regulated by federal authority under 33 CFR Parts 320-330, be planned and/or necessary, then a permit

would be required from the U.S. Army Corps of Engineers. Best management practices, such as silt fencing, stabilized construction entrances, etc., should be utilized to prevent disturbance of the wetlands, drainage channel or riparian zone.

According to the HUD MAP Guide, new construction projects on land listed in the U.S. FWS NWI will be considered only after HUD conducts an 8-step decision-making process which is the same as used for the flood plain process and includes consultation, issuing two public notices and taking public comment. Wetlands under local or state jurisdiction are subject to state or local review as appropriate. However, compliance with state or local requirements is not a substitute for the eight-step process.

The Project Site does not appear to cross any navigable waters of the U.S. that are regulated by the Army Corps of Engineers (COE). In addition, the proposed project site does not impact any present, proposed, or potential unit of the national Wild and Scenic Rivers Systems.

4.3.9 Federal Endangered Species

As part of this assessment AEI submitted a request for an “official species list” for the Proposed multifamily development at the Project Site from the USFWS. According to information included in the Official Species List and a USFWS IPac online Regulatory Review for the proposed multifamily development, there are no critical habitats, refuges, or fish hatcheries within the project area.

According to the Official Species List, the following Federal Threatened and Endangered Species may occur in the regional area of the Project:

Fishes

NAME	STATUS
<i>Cui-ui Chasmistes cujus</i> No critical habitat has been designated for this species. Species profile: https://ecos.fws.gov/ecp/species/456	Endangered
<i>Lahontan Cutthroat Trout Oncorhynchus clarkii henshawi</i> No critical habitat has been designated for this species. Species profile: https://ecos.fws.gov/ecp/species/3964	Threatened

Cui-ui is a lake sucker found in only one place in the world; Pyramid Lake and the lower Truckee River, all within the Pyramid Lake Paiute Reservation. It spends most of its life in Pyramid Lake, leaving only to spawn in the lower Truckee River between March and June when it reaches maturity between 6-12 years of age. Cui-ui occupy habitat near the lake bottom. They are generally found in near shore areas at depths less than 75 feet. The Project is not located within the immediate vicinity of Pyramid Lake or the lower Truckee River. No standing water, flowing water, or surface water of any kind was observed on the Project Site during AEI’s reconnaissance on November 4 and 5, 2021. The Project Site does not have suitable habitat for the Cui-ui.

Lahontan cutthroat trout, like other trout species, are found in a wide variety of cold-water habitats including large terminal alkaline lakes (e.g., Pyramid and Walker lakes); alpine lakes (e.g., Lake Tahoe and Independence Lake); slow meandering rivers (e.g., Humboldt River); mountain rivers (e.g., Carson, Truckee, Walker, and Marys Rivers); and small headwater tributary streams (e.g., Donner and Prosser Creeks). Generally, Lahontan cutthroat trout occur in cool flowing water with available cover of well-vegetated and

stable stream banks, in areas where there are stream velocity breaks, and in relatively silt free, rocky riffle-run areas. The Lahontan cutthroat trout is endemic or native to the Lahontan basin of northern Nevada, eastern California, and southern Oregon. No standing water, flowing water, or surface water of any kind was observed on the Project Site during AEI's reconnaissance on November 4 and 5, 2021. The Project Site does not have suitable habitat for the Lahontan cutthroat trout.

Insects

NAME	STATUS
Carson Wandering Skipper <i>Pseudocopaeodes eunus obscurus</i> No critical habitat has been designated for this species. Species profile: https://ecos.fws.gov/ecp/species/674	Endangered

The Carson Wandering Skipper is a small, brownish orange butterfly with a black terminal line and veins locally distributed in grassland habitats on alkaline substrates in Nevada and California. Salt grass is the larval food plant and is commonly found in the salt-bush-greasewood community of the intermountain west. Known nectar sources for the adults include *Thelypodium crispum* (thelypody), *Sisymbrium altissimum* (tumble mustard), *Pyrrocoma racemosus* (racemose golden-weed), *Cirsium arvense* (Canada thistle), *Cirsium vulgare* (bull thistle), *Lotus tenuis* (slender birds-foot trefoil), *Cleomella parviflora* (slender cleomella), *Cleomella plocasperma* (small-flowered cleomella), and *Heliotropium curassavicum* (heliotrope). Suitable habitat for the Carson wandering skipper have the following characteristics: located east of the Sierra Nevada; elevation less than 5,000 feet; presence of salt grass; near nectar sources; near open areas near springs or other water bodies; and possibly near geothermal activity. No Carson Wandering Skipper were encountered or observed on the Project Site during AEI's reconnaissance on November 4 and 5, 2021.



Flowering Plants

NAME	STATUS
Webber's Ivesia <i>Ivesia webberi</i> There is final critical habitat for this species. The location of the critical habitat is not available. Species profile: https://ecos.fws.gov/ecp/species/4682	Threatened

Webber's ivesia is restricted to sites with sparse vegetation and shallow, rocky, clay soils on mid elevation flats, benches or terraces between 4,475 and 6,237 feet elevation in Washoe and Douglas Counties in Nevada, and in Lassen, Plumas, and Sierra Counties, in California. All 17 known populations of Webber's ivesia are within the transition zone between the eastern edge of the northern Sierra Nevada and the northwestern edge of the Great Basin. One of these populations is presumed extirpated. No Webber's ivesia were encountered or observed on the Project Site during AEI's reconnaissance on November 4 and 5, 2021.



Based on review of the USFWS threatened and endangered species list, visual observations, the USFWS IPaC Regulatory Review, the USFWS Official Species List, the

surrounding area development, lack of critical on-site habitat, it is unlikely the Project serves as a critical habitat for endangered species. Therefore, it is AEI's opinion that there will be "no effect"; meaning the proposed action will not affect federally listed species or critical habitat. However, if the project changes in a manner that may potentially affect wildlife, such as an increase in the size of the area disturbed by development, or additional information on the distribution of listed or proposed species becomes available, the project should be reanalyzed for effects not previously considered.

4.3.10 Explosive/Flammable Hazards

Based on the site reconnaissance and a regulatory agency database review, no industrial facilities handling explosive or fire-prone materials such as liquid propane, gasoline, or other above ground storage tanks are currently on, immediately adjacent to or visible from the Project Site. No (0) aboveground storage tank (AST) sites were identified within 1.0-mile of the Project in the ERIS Database Report or during site area reconnaissance on November 4, 2021 and November 5, 2021.

4.3.11 Coastal Barrier Resources

According to the USFWS John H. Chafee Coastal Barrier Resources System Habitat and Resource Conservation database, the Project is not located within an area designated as a coastal barrier area.

4.3.12 Coastal Zone Management

According to the U.S. Department of Commerce National Oceanic and Atmospheric Administration (NOAA) Ocean and Coastal Resource Management in Nevada, the Project is not located within a coastal area.

4.3.13 Sole Source Aquifers

According to the United States EPA Sole Source Aquifers map found on the EPA website, the Project is not located on a Sole Source Aquifer. According to the EPA, "a Sole Source Aquifer (SSA) is an aquifer designated by EPA as the 'sole or principal source' of drinking water for a given service area; that is, an aquifer which is needed to supply 50% or more of the drinking water for that area and for which there are no reasonably available alternative sources should the aquifer become contaminated."

4.3.14 Airport Clear Zones

Based on observations made during the site reconnaissance and review of aerial photographs and maps, the Project is not within 15,000 feet of a military airport or 2,500 feet of a civilian airport making it outside the HUD defined Accident Potential Zone (APZ) or Runway Protection Zone/Clear Zone (RPZ/CZ). Therefore, the Project does not appear to be located within an airport clear zone.

4.3.15 Prime Farmland

Farmland includes prime farmland, unique farmland, and land of statewide or local importance. Farmland subject to the Farmland Protection Policy Act (FPPA) requirements does not have to be currently used for cropland. It can be forest land, pastureland, cropland,

or other land, but not water or urban built-up land. The FPPA is intended to minimize the impact Federal programs have on the unnecessary and irreversible conversion of farmland to nonagricultural uses. It assures that-to the extent possible-Federal programs are administered to be compatible with state, local units of government, and private programs and policies to protect farmland. Federal agencies are required to develop and review their policies and procedures to implement the FPPA every two years. The FPPA does not authorize the Federal Government to regulate the use of private or nonfederal land or, in any way, affect the property rights of owners. Projects are exempt from the FPPA when no additional right-of-way (ROW) is required or requires ROW that is developed, urbanized, or zoned for urban use.

The Project is mapped within the boundaries of an area considered urban land on the 2010 U.S. Census Urbanized Areas Reference Map for Reno, Nevada-California; therefore, the Project qualifies as an exemption from the Farmland Protection Policy Act (FPPA Manual Part 523.10(B)(ii)).

4.3.16 Other Federal or State Laws

The Project does not appear to be located in a predominantly minority and/or low-income neighborhood. Additionally, the Project neighborhood does not appear to suffer from disproportionately adverse environmental effects on minority and low-income populations relative to the community-at-large.

Air Quality / State Implementation Plan

The Clean Air Act is administered by the U.S. Environmental Protection Agency (EPA), which sets national standards on ambient pollutants. In addition, the Clean Air Act is administered by States, which must develop State Implementation Plans (SIPs) to regulate their state air quality. Projects funded by HUD must demonstrate that they conform to the appropriate SIP. The EPA sets National Ambient Air Quality Standards (NAAQS) for six principal criteria pollutants: ground-level ozone, lead, carbon monoxide, nitrogen dioxide, sulfur dioxide, and particulate matter. For ozone, the federal Clean Air Act establishes nonattainment-area classifications ranked according to the severity of the area's air-pollution problem. These classifications (marginal, moderate, serious, severe, and extreme) translate to varying requirements with which North Carolina and nonattainment areas must comply. Washoe County is currently classified by the U.S. EPA as an "Attainment" area for the ozone National Ambient Air Quality Standard. An attainment area meets the national primary or secondary ambient air quality standard. The two primary precursors to ozone formation are volatile organic compounds (VOCs) and nitrogen oxides (NO_x). A general conformity analysis may be required when a project results in an emissions increase of 100 tons per year or greater for either VOCs or NO_x. Because the emissions from the proposed development are expected to be below these thresholds, it is not anticipated to impact the state implementation plan.

4.3.17 Commonly Found or Observed Additional Hazards and Nuisances

No known natural hazards will likely affect the Project. Natural hazards include faults/fractures, cliffs, bluffs, crevices, slope failure from rains, unprotected water bodies, fire hazard materials, wind/sand storm concerns, poisonous plants/insects/animals, or hazardous terrain features.

AEI reviewed the National Pipeline Mapping System (NPMS) public viewer for the Project Site area. One (1) high pressure buried gas was identified within a 1.0-mile radius of the Project Site. No (1) hazardous liquid transmission pipelines were identified within a 1.0-mile radius of the Project. The pipeline is owned by Southwest Gas. AEI requested the diameter, contents, and operational pressure of the pipeline from Southwest Gas. AEI had not received a response from Southwest Gas prior to the completion of this Phase I ESA.

No other built hazards including metal electrical towers, dangerous intersections, inadequate street lighting, children's play areas located next to a busy street, railroad crossings, hazardous or chemical storage, high-pressure gas, or liquid petroleum transmission lines on-site, oil or gas wells, or industrial operations were observed on or adjacent to the Project.

4.4 Historical Use Information on The Project Site

The Project Site has historically been undeveloped land since at least 1946.

4.4.1 Aerial Photographs

AEI obtained a Historical Aerials report from ERIS, which included aerial photographs of Project Site and surrounding areas spanning from 1946 to 2019. A summary of AEI's review of the historical aerials is provided in this section.

The Project Site has historically been undeveloped land since at least 1946. Properties surrounding the Project Site appear to have been undeveloped land since at least 1946 until properties north and east of the Project were improved with residences beginning in the 1950s and continuing into the 1990s.

A copy of the ERIS Historical Aerials report is provided in Appendix F.

4.4.2 Fire Insurance Maps

AEI obtained a Fire Insurance Maps report for the Project Site from ERIS, which reported that no such maps are available for the Project Site or immediate vicinity. A copy of the ERIS Fire Insurance Maps report is included in Appendix F.

4.4.3 City Directories

AEI reviewed a City Directory report obtained from ERIS containing historical city directory listings for past names and business in the Project area. Polk's and Digital Business Directories were available for the Project area for the years spanning from 1977 to 2020. Addresses for the following surrounding roadways were included in the City Directory report: Chocolate Drive and W. 5th Avenue. No city directory listings that appear to present a recognized environmental condition in connection with the Project were identified.

A copy of the City Directory report obtained from ERIS is provided in Appendix F.

4.4.4 Historical Topographic Maps

AEI obtained an ERIS Topographic Maps report, which includes historical topographic maps of Project Site and surrounding areas for the years 1950, 1951, 1967, 1974, 1982, and 2015. A summary of AEI's review of the topographic maps is provided in this section.

The area containing the Project Site is depicted as being absent of any structures on all the topographic maps. An unimproved road is depicted on the northeast portion of the Project on the 1950 and 1951 topographic maps and two unimproved roadways are depicted on the central portion of the Project on the 1982 topographic map. An intermittent stream is depicted in a general west-east direction on the north portion of the Project. No other water conveyances are depicted on the Project Site. No specific environmental concerns were indicated on the topographic maps.

A copy of the ERIS Topographic Maps report is included in Appendix F.

4.4.5 Additional Historical Record Sources

Property Tax Files: AEI was not provided with copies of Project-specific tax files as part of this assessment; however, tax files readily available for review through the Washoe County Tax Assessor's Office. According to information obtained, tax payments appear to be current.

4.4.6 Prior Assessment Reports

AEI was not provided with any prior assessment reports for the Project Site.

4.5 Historical Use Information on Adjoining Properties

By review of the standard historical sources referenced above, the historical uses of the adjoining properties are summarized below:

- North:** Prior to the development of the single-family residences beginning in the 1950s, the north adjoining properties have been, and portions remain undeveloped land since at least 1946.
- South:** The south adjoining property has historically been vacant land, since at least 1946.
- East:** Prior to the development of the residential neighborhood beginning in the 1950s, the east adjoining properties have historically been undeveloped land since at least 1946.
- West:** The west adjoining property has historically been undeveloped land, since at least 1946.

5.0 SITE RECONNAISSANCE

5.1 Methodology And Limiting Conditions

The Project Site was inspected by Ms. Lui Barkkume on November 4, 2021 and November 5, 2021. The weather at the time of the site visit was sunny and clear. Ms. Barkkume was not accompanied by an escort during the inspection.

The Project Site was evaluated for visual and olfactory evidence of potential environmental concerns. A detailed assessment was performed by walking the interior and perimeter of the site to document the occurrence of potential environmental concerns including past or present petroleum storage tanks (PSTs), surface stains, distressed vegetation, solid waste disposal and transformers.

5.2 General Site Setting

The Project is situated in a mixed-use area of Sun Valley characterized by single-family residences, Red Hill Park, a school, and commercial development. The Project Site is an irregular shaped 45.51-acre tract of undeveloped land with an undulating rocky terrain covered with bare soil, grasses, gravel, boulders, brush, and scattered coniferous trees. Improvements to the Project Site are limited to buried utilities along Chocolate Drive and a stormwater drainage ditch, with culvert, along a portion of the north Project boundary. Adjoining properties include a large open space known as Red Hill Park / Red Hill Open Space with a water tower/tank and radio antenna beyond, ranchland, and single-family residences.

5.3 Exterior Observations

5.3.1 Solid Waste Disposal

No evidence of a solid waste collection service was observed on the Project Site.

5.3.2 Surface Water Drainage

Surface water evaporates, is absorbed into the soil, or is directed down-gradient via sheet flow as surface run-off. A stormwater drainage ditch with a concrete culvert was observed along the north Project boundary on the northeast portion of the Project.

5.3.3 Wells and Cisterns

No evidence of wells or cisterns was observed during the onsite reconnaissance.

5.3.4 Wastewater

No indications of industrial wastewater disposal or treatment facilities were observed during the onsite reconnaissance.

5.3.5 Additional Site Observations

Multiple abandoned vehicles, vehicle parts, tires, boats, furniture, appliances, concrete, asphalt, aggregate, wood, brick, metal, plastic, and household refuse were observed at various locations throughout the Project Site and on adjoining vacant properties along the Project boundaries (abutting the Project). No obvious indications of hazardous material or

petroleum product releases, such as stained areas or stressed vegetation, was observed around the vehicles, objects, or debris and no foul odors were detected. No evidence of burial was observed. The abandoned vehicles, vehicle parts, tires, boats, furniture, appliances, concrete, asphalt, aggregate, wood, brick, metal, plastic, and household refuse appeared to be benign in nature and do not appear to represent evidence of a recognized environmental condition in connection with the Project Site. However, the abandoned vehicles, vehicle parts, tires, boats, furniture, appliances, concrete, asphalt, aggregate, wood, brick, metal, plastic, and household refuse should be removed and disposed off-site at an approved landfill, disposal, and/or recycling facilities.

5.4 Interior Observations

No structures with interior space(s) were observed on the Project Site.

5.5 Potential Environmental Conditions

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

No hazardous materials and/or hazardous wastes were observed to be used, stored, or generated on the Project Site.

5.5.1.1 Unlabeled Containers and Drums

No unlabeled containers or drums were observed during the site reconnaissance.

5.5.1.2 Disposal Locations of Regulated/ Hazardous Waste

No obvious indications of hazardous waste generation, storage, or disposal were observed on the Project Site or were indicated during interviews.

5.5.2 Evidence of Releases

No obvious indications of hazardous material or petroleum product releases, such as stained areas or stressed vegetation was observed during the site reconnaissance or reported during interviews.

5.5.3 Polychlorinated Biphenyls (PCBs)

Older transformers and other electrical equipment could contain polychlorinated biphenyls (PCBs) at a level that subjects them to regulation by the U.S. EPA. PCBs in electrical equipment are controlled by U.S. EPA regulations 40 CFR, Part 761. Under the regulations, there are three categories into which electrical equipment can be classified:

- Less than 50 parts per million (PPM) of PCBs – *“Non-PCB” transformer*
- 50 ppm-500 ppm – *“PCB-Contaminated” electrical equipment*
- Greater than 500 ppm – *“PCB” transformer*

Pole-mounted electrical transformers were observed along the east side of Chocolate Drive. The units were not labeled as to its PCB status; however, they are owned and operated by NV Energy. No indication of staining, leaks or fire damage was observed on or around the bases of the units. In the event of a spill or release of dielectric fluid or other substances,

NV Energy will be required to meet or exceed all state and federal requirements in the areas of response, notification, clean-up, disposal, and documentation of the event. Any special or unique circumstance regarding transformers at this location should be brought to the attention of the NV Energy. Therefore, the transformers do not represent evidence of a recognized environmental condition in connection with the Project Site.

No other exterior electrical equipment expected to contain PCBs was observed on or immediately adjacent to the Project Site during AEI's reconnaissance.

5.5.4 Landfills

No evidence of on-site landfilling was observed or reported during the site reconnaissance.

5.5.5 Pits, Ponds, Lagoons, Sumps, and Catch Basins

No evidence of on-site pits, ponds, or lagoons was observed or reported during the site reconnaissance. No evidence of sumps or catch basins, other than used for stormwater removal, was observed, or reported during the site reconnaissance.

5.5.6 On-Site ASTs and USTs

No evidence of aboveground or underground petroleum storage tanks was observed during the site reconnaissance or reported during interviews.

5.5.7 Radiological Hazards

No radiological substances or equipment was observed or reported stored on the Project Site.

5.5.8 Drinking Water

There is currently no drinking water or potable water supplied to the Project Site. Drinking water in the Project area is supplied by Truckee Meadows Water Authority. Truckee Meadows Water Authority drinking water primarily comes from Lake Tahoe and the Truckee River System. According to the Truckee Meadows Water Authority 2021 Water Quality Report, the drinking water supply available to the Project area is within state and federal standards, including lead and copper.

5.5.9 Septic Systems or Cesspools

No obvious evidence of on-site septic systems or cesspools was visually and/or physically observed during the Project Site reconnaissance or identified from the interviews or records review.

5.5.10 Additional Hazard Observations

No additional hazards were observed on the Project Site.

5.5.11 Asbestos-Containing Materials (ACM)

An asbestos evaluation was not included within the Scope of Services for this investigation. No structures were observed on the Project Site at the time of the site reconnaissance; therefore, asbestos containing materials are currently not a concern with the Project.

5.5.12 Lead-Based Paint

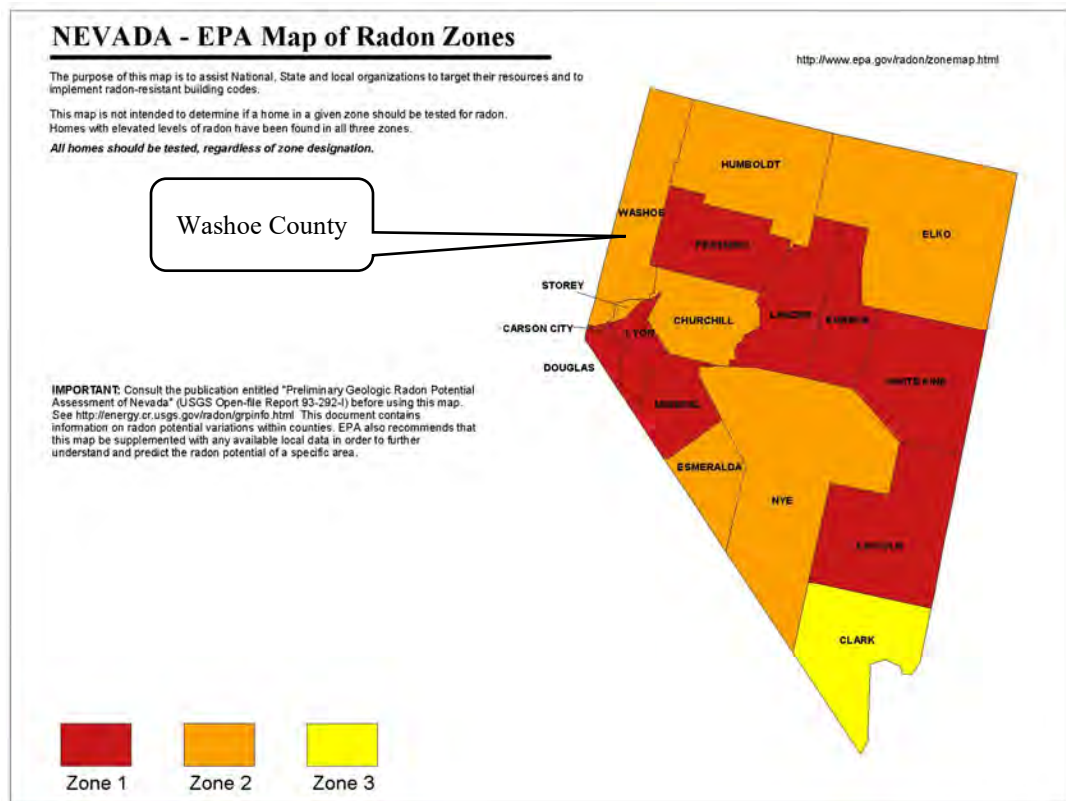
A lead-based paint evaluation was not included within the Scope of Services for this investigation. No structures were observed on the Project Site at the time of the site reconnaissance; therefore, lead-based paint is not a concern with this Project.

5.5.13 Mold Evaluation

An asbestos evaluation was not included within the Scope of Services for this investigation. No structures were observed on the Project Site at the time of the site reconnaissance; therefore, asbestos containing materials are currently not a concern with the Project.

5.5.14 Radon

Radon is a naturally occurring radioactive gas formed by the spontaneous decay of isotopically unstable uranium to stable lead. Uranium is found in all rocks and soils and radon generated in the top 10-20 feet of the ground either decays to a solid in the ground or escapes to the air. In air, the radon is generally diluted to very low concentrations before decaying. However, in buildings and houses radon can accumulate to concentrations considered to represent a health hazard. The U.S. EPA currently recommends remedial action levels above 4 pico-Curies per liter (pCi/L). In general, radon concentrations decrease, as the floor level becomes higher above ground level.



The U.S. EPA has prepared a map to assist National, State, and local organizations to target their resources and to implement radon-resistant building codes. The map divides the country into three Radon Zones, Zone 1 being those areas with the average predicted indoor

radon concentration in residential dwellings exceeding the EPA Action limit of 4.0 pico-Curies per Liter (pCi/L). It is important to note that the EPA has found homes with elevated levels of radon in all three zones, and the EPA recommends site specific testing in order to determine radon levels at a specific location. However, the map does give a valuable indication of the propensity of radon gas accumulation in structures.

The EPA Map of Radon Zones places the Property in Zone 2, where average predicted radon levels are between 2.0 and 4.0 pCi/L. A radon report, including sampling and mitigation was not included within the scope of services for this Phase I ESA.

6.0 INTERVIEWS

6.1 Interview with Owner

Mr. Randal S. Kuckenmeister with Chocolate Group, LLC was identified as the property owner representative and key site manager for the Project Site. Mr. Kuckenmeister completed a Phase I ESA Pre-Survey Questionnaire and Disclosure Statement for the Project, at the request of AEI. Mr. Kuckenmeister disclosed that based on his knowledge and experience related to the Project, he is not aware of any obvious indicators that point to the presence or likely presence of releases at the Project Site.

6.2 Interview with Site Manager

Mr. Randal S. Kuckenmeister with Chocolate Group, LLC was identified as the key site manager and property owner representative for the Project Site. A summary of Mr. Kuckenmeister's interview is provided above in Section 6.1.

6.3 Interview with Occupants

The Project Site is currently unoccupied.

6.4 Interview with Local Government Officials

Public Information Act requests were submitted to the Washoe County Open Records Request Division for any information regarding building permits, tank permits, certificates of occupancy, code enforcement, citizen complaints and/or investigations on the use, handling, release, or discharge of solid or liquid wastes, underground storage tanks, above ground storage tanks, hazardous materials, or other circumstances of environmental concern recorded at the project location. In addition to on-site permit records and circumstances of environmental concern recorded at the project location, AEI requested any tank permit applications and/or records for potential future storage tank use or installation as well as existing and former aboveground storage tanks and underground storage tanks within the immediate vicinity or a 1-mile radius of the Project Site addresses. A summary of the information provided by the Washoe County officials is provided in the following table:

Certificates of Occupancy:	None for Project Site
Building Permits:	None for Project Site
Fire Department Records:	None for Project Site
Code Enforcement	10 Cases on record for Project Site The cases are regarding abandoned vehicles, an abandoned mobile home (mobile home removed 4/14/2008), and illegal dumping of trash. Most recent open violation case date is 06/17/2021.

6.5 Interview with Others

No other persons were interviewed. Interview documentation is provided in Appendix E.

7.0 FINDINGS AND CONCLUSIONS

7.1 Findings

7.1.1 On-Site Recognized Environmental Conditions

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

7.1.2 Off-Site Recognized Environmental Conditions

No off-site recognized environmental conditions were identified that were considered likely to impact the Project Site.

7.1.3 Historical Recognized Environmental Conditions

No historical recognized environmental conditions were identified in connection with the Project Site during the course of this assessment.

7.1.4 Controlled Recognized Environmental Conditions

No controlled recognized environmental conditions were identified that were considered likely to impact the Project Site.

7.1.5 De Minimis Conditions

No *de minimis* conditions were identified in connection with the Project Site during the course of this assessment.

7.2 Opinion

In the professional opinion of AEI, an appropriate level of inquiry has been made into the previous ownership and uses of the Project Site consistent with good commercial and customary practice in an effort to minimize liability, and evidence or indication of recognized environmental conditions has not been revealed. Further investigation is not deemed necessary at this time.

7.3 Conclusions

AEI has performed a Phase I Environmental Site Assessment in conformance with the scope and limitations of ASTM Practice E 1527-13 for 45.51 acres of land located west of Chocolate Drive in Sun Valley, Washoe County, Nevada. Any exceptions to or deletions from this practice are described in Section 1.4 of this report. This assessment has revealed no evidence of recognized environmental conditions in connection with the Project Site.

7.4 Recommendations

Based on the conclusions of this assessment, AEI does not recommend further investigation of the Project Site at this time.

7.5 Deviations

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

8.0 REFERENCES

ASTM, "Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process," ASTM Designation E 1527-13

ASTM "Standard Practice for Assessment of Vapor Intrusion into Structures located on the Property involved in Real Estate Transactions" ASTM Designation E 2600-15

City of Sparks, Nevada Bureau of Land Management, Oil and Gas Well GIS Map, <https://gisweb.unr.edu/OilGas/>

ERIS Historical Aerials for Order Number 21102800172, dated November 2, 2021

ERIS Physical Setting Report for Order Number 21102800172p, October 29, 2021

ERIS Database Report for Order Number 21102800172, dated November 1, 2021

ERIS Fire Insurance Maps for Order Number 21102800172, dated October 28, 2021

ERIS City Directory for Order Number 21102800172, dated October 29, 2021

ERIS Topographic Maps for Order Number 21102800172, dated October 29, 2021

ERIS Tier 1 Vapor Encroachment Screen Report for Order Number 21102800172v, dated December 4, 2021

Federal Emergency Management Agency, Flood Insurance Rate Map, Panel Number 32031C3033G revised March 16, 2009

National Pipeline Mapping System (NPMS) public viewer, <https://pvnpm.phmsa.dot.gov/PublicViewer/>

Nevada Bureau of Mines and Geology, <https://data-nbmg.opendata.arcgis.com/>

Nevada Department of Transportation Available Annual Traffic Reports, <https://www.dot.nv.gov/doing-business/about-ndot/ndot-divisions/planning/traffic-information>

Nevada Department of Transportation Traffic Information Center TRINA, <https://ndot.maps.arcgis.com/apps/webappviewer/index.html?id=278339b4605e4dda8da9bddd2fd9f1e9>

Seismic information obtained through the USGS website, http://earthquake.usgs.gov/earthquakes/states/north_carolina/hazards.php

Truckee Meadows Water Authority Annual Water Quality Report, <https://quality.tmwa.com/>

United States Census Bureau Urbanized Area Mapper, <http://www.census.gov/geo/maps-data/maps/2010ua.html>

USDA, Natural Resources Conservation Service, Web Soil Survey, <http://websoilsurvey.sc.egov.usda.gov/App/HomePage.htm>

United States Environmental Protection Agency (EPA), EPA Map of Radon Zones, <https://www.epa.gov/radon/epa-map-radon-zones>

United States Environmental Protection Agency (EPA) GIS Map of Sole Source Aquifers, <https://epa.maps.arcgis.com/apps/webappviewer/index.html?id=9ebb047ba3ec41ada1877155fe31356b>

U.S. Fish & Wildlife Service (USFWS) Information Planning and Conservation (IPaC) System online tool, http://www.fws.gov/ipac/ipac_basics.html

U.S. Fish & Wildlife Service (USFWS) Coastal Barrier Resources System (CBRS) Mapper, <https://www.fws.gov/CBRA/Maps/Mapper.html>

U.S. Fish & Wildlife Service (USFWS), National Wetlands Inventory Mapper,
<https://www.fws.gov/wetlands/data/mapper.html>

United States Department of Housing and Urban Development, Multifamily Accelerated Processing (MAP) Guide, Chapter 9 “Environmental Review” originally published December 18, 2020, revised March 19, 2021.

United States Department of Housing and Urban Development, Day/Night Noise Level Calculator,
<https://www.hudexchange.info/environmental%ADreview/dnl%ADcalculator/1/3>

United States Department of Housing and Urban Development, Acceptable Separation Distance (ASD) Electronic Assessment Tool, <https://www.hudexchange.info/programs/environmental-review/asd-calculator/>

Washoe County, Nevada Website, <https://www.washoecounty.gov/>

Washoe County Clerk’s Office, https://www.washoecounty.gov/clerks/admin/public_records.php

Washoe County Assessor Property Records, <https://www.washoecounty.gov/assessor/cama/index.php>

Washoe County Recorder’s Office, <https://icris.washoecounty.us/ssrecorder/>

Airport location and distances relative to Project location were obtained using the following website:
<http://www.airnav.com/>

9.0 SIGNATURES OF ENVIRONMENTAL PROFESSIONALS

I/We declare that, to the best of my/our professional knowledge and belief, I/we meet the definition of *Environmental professional* as defined in §312.10 of 40 CFR 312” and I/we have the specific qualifications based on education, training, and experience to assess a *property* of the nature, history, and setting of the subject *property*. I/We have developed and performed the all appropriate inquiries in conformance with the standards and practices set forth in 40 CFR Part 312. Arkose Environmental, Inc. will not materially benefit from the development of the Project property in any way other than receiving a fee for performing this environmental site assessment, and the fee is in no way contingent upon the outcome of the assessment.



Lui Barkkume, PG, CESCO
Environmental Project Manager
Texas Professional Geologist, #1937

10.0 QUALIFICATIONS OF ENVIRONMENTAL PROFESSIONALS

Lui Barkkume, P.G., CESCO:

Degree: Bachelor of Science, Geology from Texas A&M University - Commerce, 1998

Texas Professional Geologist, No. 1937

NREP Certified Environmental and Safety Compliance Officer, No. 116912612

OSHA 29 CFR 1910.120 HAZWOPER, Cert. No. 13083

Texas Commission on Environmental Quality LPST Project Manager, No. PM0000299

Texas Department of State Health Services Licensed Lead Risk Assessor, No. 2070514

Texas Department of State Health Services Licensed Individual Asbestos Consultant, No. 105665

Ms. Barkkume has been conducting Phase I and II Environmental Site Assessments of commercial, industrial, single-family residential and multi-family residential properties throughout the United States since 1999.

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

Appendix A

Photographic Documentation

Project Name: Proposed Multifamily Development
Site Location: Chocolate Drive, Sun Valley, NV

Project No: 21-198



Google Base Map

Project Name: Proposed Multifamily Development
Site Location: Chocolate Drive, Sun Valley, NV

Project No: 21-198

Photograph ID:

1

Photograph Tag:

Survey Date:

04-NOV-21

Comments:

View west across the project
from the east project boundary



Photograph ID:

2

Photograph Tag:

Survey Date:

04-NOV-21

Comments:

View northwest across the
project from the east project
boundary



Project Name: Proposed Multifamily Development

Project No: 21-198

Site Location: Chocolate Drive, Sun Valley, NV

Photograph ID:

3

Photograph Tag:

Survey Date:

04-NOV-21

Comments:

View south across the project



Photograph ID:

4

Photograph Tag:

Survey Date:

04-NOV-21

Comments:

View north across the project



Project Name: Proposed Multifamily Development
Site Location: Chocolate Drive, Sun Valley, NV

Project No: 21-198

Photograph ID:

5

Photograph Tag:

Survey Date:

04-NOV-21

Comments:

View of tire pile observed on the project site



Photograph ID:

6

Photograph Tag:

Survey Date:

04-NOV-21

Comments:

Recreational vehicle, boats, and other vehicular debris abutting the west project boundary



Project Name: Proposed Multifamily Development

Project No: 21-198

Site Location: Chocolate Drive, Sun Valley, NV

Photograph ID:

7

Photograph Tag:

Survey Date:

04-NOV-21

Comments:

View west across the project
towards Red Hill



Photograph ID:

8

Photograph Tag:

Survey Date:

04-NOV-21

Comments:

View northwest across the
project



Project Name: Proposed Multifamily Development

Project No: 21-198

Site Location: Chocolate Drive, Sun Valley, NV

Photograph ID:

9

Photograph Tag:

Survey Date:

04-NOV-21

Comments:

View north across the project



Photograph ID:

10

Photograph Tag:

Survey Date:

04-NOV-21

Comments:

View east across the project
towards the east adjoining
residences



Project Name: Proposed Multifamily Development
Site Location: Chocolate Drive, Sun Valley, NV

Project No: 21-198

Photograph ID:

11

Photograph Tag:

Survey Date:

04-NOV-21

Comments:

Abandoned vehicle observed
on the project



Photograph ID:

12

Photograph Tag:

Survey Date:

04-NOV-21

Comments:

View south across the project



Project Name: Proposed Multifamily Development

Project No: 21-198

Site Location: Chocolate Drive, Sun Valley, NV

Photograph ID:

13

Photograph Tag:

Survey Date:

04-NOV-21

Comments:

View north across the project



Photograph ID:

14

Photograph Tag:

Survey Date:

04-NOV-21

Comments:

View north along the west
project boundary



Project Name: Proposed Multifamily Development

Project No: 21-198

Site Location: Chocolate Drive, Sun Valley, NV

Photograph ID:

15

Photograph Tag:

Survey Date:

04-NOV-21

Comments:

View south along the west
project boundary



Photograph ID:

16

Photograph Tag:

Survey Date:

04-NOV-21

Comments:

View west at the west
adjoining property from the
west project boundary



Project Name: Proposed Multifamily Development

Project No: 21-198

Site Location: Chocolate Drive, Sun Valley, NV

Photograph ID:

17

Photograph Tag:

Survey Date:

04-NOV-21

Comments:

View east across the project
from the west project
boundary



Photograph ID:

18

Photograph Tag:

Survey Date:

04-NOV-21

Comments:

View northeast across the
project from the west project
boundary



Project Name: Proposed Multifamily Development

Project No: 21-198

Site Location: Chocolate Drive, Sun Valley, NV

Photograph ID:

19

Photograph Tag:

Survey Date:

04-NOV-21

Comments:

View southeast across the project from the west project boundary



Photograph ID:

20

Photograph Tag:

Survey Date:

04-NOV-21

Comments:

Pile of bricks and mortar observed on the project site



Project Name: Proposed Multifamily Development
Site Location: Chocolate Drive, Sun Valley, NV

Project No: 21-198

Photograph ID:

21

Photograph Tag:

Survey Date:

04-NOV-21

Comments:

View east across the project
from the west project
boundary



Photograph ID:

22

Photograph Tag:

Survey Date:

04-NOV-21

Comments:

View west at west adjoining
Red Hill from the west
boundary of the project



Project Name: Proposed Multifamily Development
Site Location: Chocolate Drive, Sun Valley, NV

Project No: 21-198

Photograph ID:

23

Photograph Tag:

Survey Date:

04-NOV-21

Comments:

View north along the west
project boundary



Photograph ID:

24

Photograph Tag:

Survey Date:

04-NOV-21

Comments:

View south along the west
project boundary



Project Name: Proposed Multifamily Development
Site Location: Chocolate Drive, Sun Valley, NV

Project No: 21-198

Photograph ID:

25

Photograph Tag:

Survey Date:

04-NOV-21

Comments:

View northeast across the project from the west project boundary



Photograph ID:

26

Photograph Tag:

Survey Date:

04-NOV-21

Comments:

View southeast across the project from the west project boundary



Project Name: Proposed Multifamily Development
Site Location: Chocolate Drive, Sun Valley, NV

Project No: 21-198

Photograph ID:

27

Photograph Tag:

Survey Date:

04-NOV-21

Comments:

View north along east project boundary and Chocolate Drive



Photograph ID:

28

Photograph Tag:

Survey Date:

04-NOV-21

Comments:

View south along east project boundary and Chocolate Drive



Project Name: Proposed Multifamily Development
Site Location: Chocolate Drive, Sun Valley, NV

Project No: 21-198

Photograph ID:

29

Photograph Tag:

Survey Date:

04-NOV-21

Comments:

View west across the project
from the east project boundary



Photograph ID:

30

Photograph Tag:

Survey Date:

04-NOV-21

Comments:

Buried water and gas utilities
along the east project
boundary



Project Name: Proposed Multifamily Development

Project No: 21-198

Site Location: Chocolate Drive, Sun Valley, NV

Photograph ID:

31

Photograph Tag:

Survey Date:

04-NOV-21

Comments:

Rubble, soil, broken concrete, and gravel piles on the north portion of project



Photograph ID:

32

Photograph Tag:

Survey Date:

04-NOV-21

Comments:

Rubble, soil, broken concrete, and gravel piles on the north portion of project



Project Name: Proposed Multifamily Development

Project No: 21-198

Site Location: Chocolate Drive, Sun Valley, NV

Photograph ID:

33

Photograph Tag:

Survey Date:

04-NOV-21

Comments:

Rubble, soil, broken concrete, and gravel piles on the north portion of project



Photograph ID:

34

Photograph Tag:

Survey Date:

04-NOV-21

Comments:

Rubble, soil, broken concrete, and gravel piles on the north portion of project



Project Name: Proposed Multifamily Development

Project No: 21-198

Site Location: Chocolate Drive, Sun Valley, NV

Photograph ID:

35

Photograph Tag:

Survey Date:

04-NOV-21

Comments:

View southwest across the project from near the northeast corner of the project



Photograph ID:

36

Photograph Tag:

Survey Date:

04-NOV-21

Comments:

View south along the east project boundary from the northeast corner of the project



Project Name: Proposed Multifamily Development
Site Location: Chocolate Drive, Sun Valley, NV

Project No: 21-198

Photograph ID:

37

Photograph Tag:

Survey Date:

04-NOV-21

Comments:

View southwest across the project for the northeast corner of the project



Photograph ID:

38

Photograph Tag:

Survey Date:

04-NOV-21

Comments:

View west along the north project boundary from the northeast corner of the project



Project Name: Proposed Multifamily Development
Site Location: Chocolate Drive, Sun Valley, NV

Project No: 21-198

Photograph ID:

39

Photograph Tag:

Survey Date:

04-NOV-21

Comments:

View northwest at north
adjoining residences



Photograph ID:

40

Photograph Tag:

Survey Date:

04-NOV-21

Comments:

View southeast at east
adjoining residences



Project Name: Proposed Multifamily Development

Project No: 21-198

Site Location: Chocolate Drive, Sun Valley, NV

Photograph ID:

41

Photograph Tag:

Survey Date:

04-NOV-21

Comments:

View east at stormwater drainage ditch culvert along the north project boundary



Photograph ID:

42

Photograph Tag:

Survey Date:

04-NOV-21

Comments:

Dumped appliance observed along the east boundary near the southeast corner of the project



Project Name: Proposed Multifamily Development
Site Location: Chocolate Drive, Sun Valley, NV

Project No: 21-198

Photograph ID:

43

Photograph Tag:

Survey Date:

04-NOV-21

Comments:

View north along the east
project boundary



Photograph ID:

44

Photograph Tag:

Survey Date:

04-NOV-21

Comments:

View northwest across the
project from the east boundary
on the south portion of the
project



Project Name: Proposed Multifamily Development

Project No: 21-198

Site Location: Chocolate Drive, Sun Valley, NV

Photograph ID:

45

Photograph Tag:

Survey Date:

04-NOV-21

Comments:

View west across the south portion of project from the east project boundary



Photograph ID:

46

Photograph Tag:

Survey Date:

04-NOV-21

Comments:

View of furniture dumped on project site



Project Name: Proposed Multifamily Development

Project No: 21-198

Site Location: Chocolate Drive, Sun Valley, NV

Photograph ID:

47

Photograph Tag:

Survey Date:

04-NOV-21

Comments:

View north along the east project boundary from the southeast corner of the project



Photograph ID:

48

Photograph Tag:

Survey Date:

04-NOV-21

Comments:

View northeast at east adjoining residential properties



Project Name: Proposed Multifamily Development
Site Location: Chocolate Drive, Sun Valley, NV

Project No: 21-198

Photograph ID:

49

Photograph Tag:

Survey Date:

04-NOV-21

Comments:

View of the west and south adjoining Red Hill Park from W. 2nd Ave



Photograph ID:

50

Photograph Tag:

Survey Date:

04-NOV-21

Comments:

View of abandoned vehicle observed on the south portion of the project



Project Name: Proposed Multifamily Development
Site Location: Chocolate Drive, Sun Valley, NV

Project No: 21-198

Photograph ID:

51

Photograph Tag:

Survey Date:

05-NOV-21

Comments:

View north along the west project boundary from the southwest corner of the project



Photograph ID:

52

Photograph Tag:

Survey Date:

05-NOV-21

Comments:

View northeast across the project from the southwest corner of the project



Project Name: Proposed Multifamily Development
Site Location: Chocolate Drive, Sun Valley, NV

Project No: 21-198

Photograph ID:

53

Photograph Tag:

Survey Date:

05-NOV-21

Comments:

View east along the south project boundary from the southwest corner of the project



Photograph ID:

54

Photograph Tag:

Survey Date:

05-NOV-21

Comments:

View southeast at the south adjoining property from the southwest corner of the project



Project Name: Proposed Multifamily Development

Project No: 21-198

Site Location: Chocolate Drive, Sun Valley, NV

Photograph ID:

55

Photograph Tag:

Survey Date:

05-NOV-21

Comments:

View northwest at the west adjoining property from the southwest corner of project



Photograph ID:

56

Photograph Tag:

Survey Date:

05-NOV-21

Comments:

View of survey marker at the southwest corner of the project



Project Name: Proposed Multifamily Development
Site Location: Chocolate Drive, Sun Valley, NV

Project No: 21-198

Photograph ID:

57

Photograph Tag:

Survey Date:

05-NOV-21

Comments:

View north across the project from the south portion of the project



Photograph ID:

58

Photograph Tag:

Survey Date:

05-NOV-21

Comments:

Mattress, furniture, wood, and concrete observed dumped on the south portion of the project



Project Name: Proposed Multifamily Development

Project No: 21-198

Site Location: Chocolate Drive, Sun Valley, NV

Photograph ID:

59

Photograph Tag:

Survey Date:

05-NOV-21

Comments:

Mattress, furniture, wood, and concrete observed dumped on the south portion of the project



Photograph ID:

60

Photograph Tag:

Survey Date:

05-NOV-21

Comments:

Oven and bedframe observed dumped on the south portion of the project



Project Name: Proposed Multifamily Development

Project No: 21-198

Site Location: Chocolate Drive, Sun Valley, NV

Photograph ID:

61

Photograph Tag:

Survey Date:

05-NOV-21

Comments:

Tires, other vehicle debris, wood, and household debris observed in a topographic draw on the project



Photograph ID:

62

Photograph Tag:

Survey Date:

05-NOV-21

Comments:

Vehicle, vehicle debris, and household debris observed in a topographic draw on the project



Project Name: Proposed Multifamily Development

Project No: 21-198

Site Location: Chocolate Drive, Sun Valley, NV

Photograph ID:

63

Photograph Tag:

Survey Date:

05-NOV-21

Comments:

Vehicle and other debris observed in a topographic draw on west adjoining property and project



Photograph ID:

64

Photograph Tag:

Survey Date:

05-NOV-21

Comments:

Asphalt, concrete, wood, and metal debris observed on the south portion of the project



Project Name: Proposed Multifamily Development
Site Location: Chocolate Drive, Sun Valley, NV

Project No: 21-198

Photograph ID:

65

Photograph Tag:

Survey Date:

05-NOV-21

Comments:

View southeast of tire, gravel, wood, and concrete debris on south portion of project



Photograph ID:

66

Photograph Tag:

Survey Date:

05-NOV-21

Comments:

View west across the project from the east project boundary on the southern portion of the project



Project Name: Proposed Multifamily Development
Site Location: Chocolate Drive, Sun Valley, NV

Project No: 21-198

Photograph ID:

67

Photograph Tag:

Survey Date:

05-NOV-21

Comments:

View north along the east project boundary on the southern portion of the project



Photograph ID:

68

Photograph Tag:

Survey Date:

05-NOV-21

Comments:

View south along the east project boundary on the southern portion of the project



Project Name: Proposed Multifamily Development
Site Location: Chocolate Drive, Sun Valley, NV

Project No: 21-198

Photograph ID:

69

Photograph Tag:

Survey Date:

05-NOV-21

Comments:

View northwest across the project from the southeast portion of the project



Photograph ID:

70

Photograph Tag:

Survey Date:

05-NOV-21

Comments:

View south along the east project boundary and Chocolate Drive



Project Name: Proposed Multifamily Development
Site Location: Chocolate Drive, Sun Valley, NV

Project No: 21-198

Photograph ID:

71

Photograph Tag:

Survey Date:

05-NOV-21

Comments:

View north along the east
project boundary and
Chocolate Drive



Photograph ID:

72

Photograph Tag:

Survey Date:

05-NOV-21

Comments:

View west across the project
from the east project boundary



Project Name: Proposed Multifamily Development

Project No: 21-198

Site Location: Chocolate Drive, Sun Valley, NV

Photograph ID:

73

Photograph Tag:

Survey Date:

05-NOV-21

Comments:

View northwest across the project from the east project boundary



Photograph ID:

74

Photograph Tag:

Survey Date:

05-NOV-21

Comments:

View southwest across the project from the east project boundary



Project Name: Proposed Multifamily Development

Project No: 21-198

Site Location: Chocolate Drive, Sun Valley, NV

Photograph ID:

75

Photograph Tag:

Survey Date:

05-NOV-21

Comments:

View southeast at east
adjoining residences



Photograph ID:

76

Photograph Tag:

Survey Date:

05-NOV-21

Comments:

View northeast at east
adjoining residences



Project Name: Proposed Multifamily Development
Site Location: Chocolate Drive, Sun Valley, NV

Project No: 21-198

Photograph ID:

77

Photograph Tag:

Survey Date:

05-NOV-21

Comments:

View of typical no dumping signage posted add multiple locations on project site



Photograph ID:

78

Photograph Tag:

Survey Date:

05-NOV-21

Comments:

View east across the project from the west project boundary



Project Name: Proposed Multifamily Development
Site Location: Chocolate Drive, Sun Valley, NV

Project No: 21-198

Photograph ID:

79

Photograph Tag:

Survey Date:

05-NOV-21

Comments:

View north across the project
from the west project
boundary



Photograph ID:

80

Photograph Tag:

Survey Date:

05-NOV-21

Comments:

View south along the west
project boundary



Project Name: Proposed Multifamily Development

Project No: 21-198

Site Location: Chocolate Drive, Sun Valley, NV

Photograph ID:

81

Photograph Tag:

Survey Date:

05-NOV-21

Comments:

View southeast across the project from the west project boundary



Photograph ID:

82

Photograph Tag:

Survey Date:

05-NOV-21

Comments:

View northeast across the project from the west boundary



Project Name: Proposed Multifamily Development
Site Location: Chocolate Drive, Sun Valley, NV

Project No: 21-198

Photograph ID:

83

Photograph Tag:

Survey Date:

05-NOV-21

Comments:

View west at west adjoining property from the west boundary



Photograph ID:

84

Photograph Tag:

Survey Date:

05-NOV-21

Comments:

View east across the north portion of the project from the west boundary



Project Name: Proposed Multifamily Development
Site Location: Chocolate Drive, Sun Valley, NV

Project No: 21-198

Photograph ID:

85

Photograph Tag:

Survey Date:

05-NOV-21

Comments:

View south across the project from the north portion of the project



Photograph ID:

86

Photograph Tag:

Survey Date:

05-NOV-21

Comments:

View of drainage channel on the northwest portion of the project



Project Name: Proposed Multifamily Development

Project No: 21-198

Site Location: Chocolate Drive, Sun Valley, NV

Photograph ID:

87

Photograph Tag:

Survey Date:

05-NOV-21

Comments:

View of drainage channel on the northwest portion of the project



Photograph ID:

88

Photograph Tag:

Survey Date:

05-NOV-21

Comments:

View west across the panhandle on the northwest portion of the project



Project Name: Proposed Multifamily Development

Project No: 21-198

Site Location: Chocolate Drive, Sun Valley, NV

Photograph ID:

89

Photograph Tag:

Survey Date:

05-NOV-21

Comments:

View of furniture observed on the panhandle on the northwest portion of the project



Photograph ID:

90

Photograph Tag:

Survey Date:

05-NOV-21

Comments:

Wood pile and plastic bottle observed on the northwest portion of the project



Project Name: Proposed Multifamily Development

Project No: 21-198

Site Location: Chocolate Drive, Sun Valley, NV

Photograph ID:

91

Photograph Tag:

Survey Date:

05-NOV-21

Comments:

View east along the north project boundary from the northwest corner of the project



Photograph ID:

92

Photograph Tag:

Survey Date:

05-NOV-21

Comments:

View south along the west boundary of the panhandle on the northwest portion of the project



Project Name: Proposed Multifamily Development

Project No: 21-198

Site Location: Chocolate Drive, Sun Valley, NV

Photograph ID:

93

Photograph Tag:

Survey Date:

05-NOV-21

Comments:

View southwest at the west adjoining property from the northwest corner of the project



Photograph ID:

94

Photograph Tag:

Survey Date:

05-NOV-21

Comments:

View northeast at the north adjoining property from near the northwest corner of the project



Project Name: Proposed Multifamily Development

Project No: 21-198

Site Location: Chocolate Drive, Sun Valley, NV

Photograph ID:

95

Photograph Tag:

Survey Date:

05-NOV-21

Comments:

View east across the panhandle on the northwest portion of the project



Photograph ID:

96

Photograph Tag:

Survey Date:

05-NOV-21

Comments:

Vehicle dumped in drainage channel on the property adjoining the northwest portion of the project



Project Name: Proposed Multifamily Development

Project No: 21-198

Site Location: Chocolate Drive, Sun Valley, NV

Photograph ID:

97

Photograph Tag:

Survey Date:

05-NOV-21

Comments:

Debris observed in a drainage channel adjacent to the northwest portion of the project site



Photograph ID:

98

Photograph Tag:

Survey Date:

05-NOV-21

Comments:

Debris observed in a drainage channel adjacent to the northwest portion of the project site



Project Name: Proposed Multifamily Development
Site Location: Chocolate Drive, Sun Valley, NV

Project No: 21-198

Photograph ID:

99

Photograph Tag:

Survey Date:

05-NOV-21

Comments:

View north of north adjoining properties from the north project boundary



Photograph ID:

100

Photograph Tag:

Survey Date:

05-NOV-21

Comments:

View south across the project site from the north project boundary



Project Name: Proposed Multifamily Development
Site Location: Chocolate Drive, Sun Valley, NV

Project No: 21-198

Photograph ID:

101

Photograph Tag:

Survey Date:

05-NOV-21

Comments:

View west along the north
project boundary



Photograph ID:

102

Photograph Tag:

Survey Date:

05-NOV-21

Comments:

View east along the north
project boundary



Project Name: Proposed Multifamily Development
Site Location: Chocolate Drive, Sun Valley, NV

Project No: 21-198

Photograph ID:

103

Photograph Tag:

Survey Date:

05-NOV-21

Comments:

View northwest across the north portion of the project



Photograph ID:

104

Photograph Tag:

Survey Date:

05-NOV-21

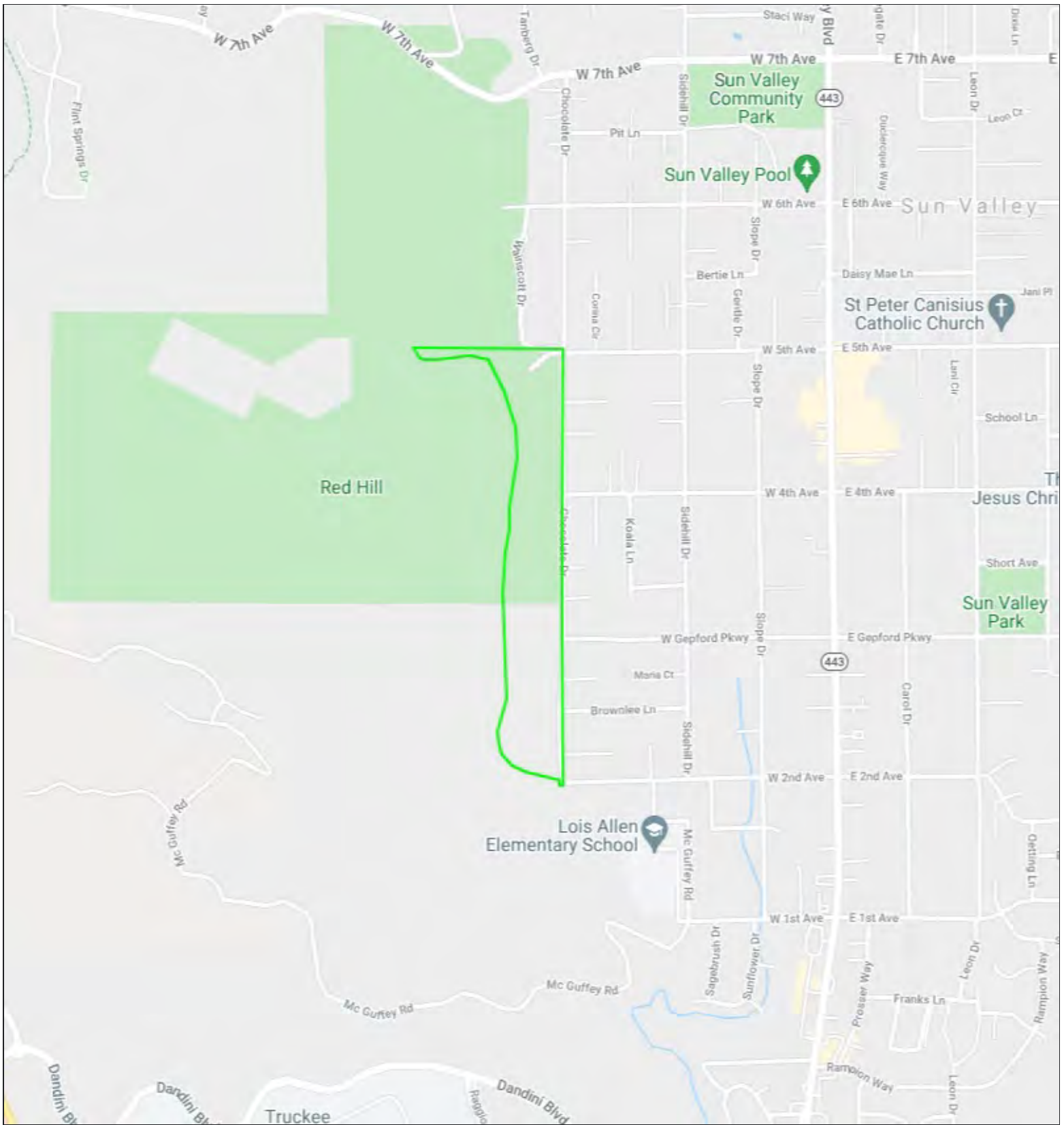
Comments:

View east-northeast across the north portion of the project



Appendix B

Figures



 Project Boundary

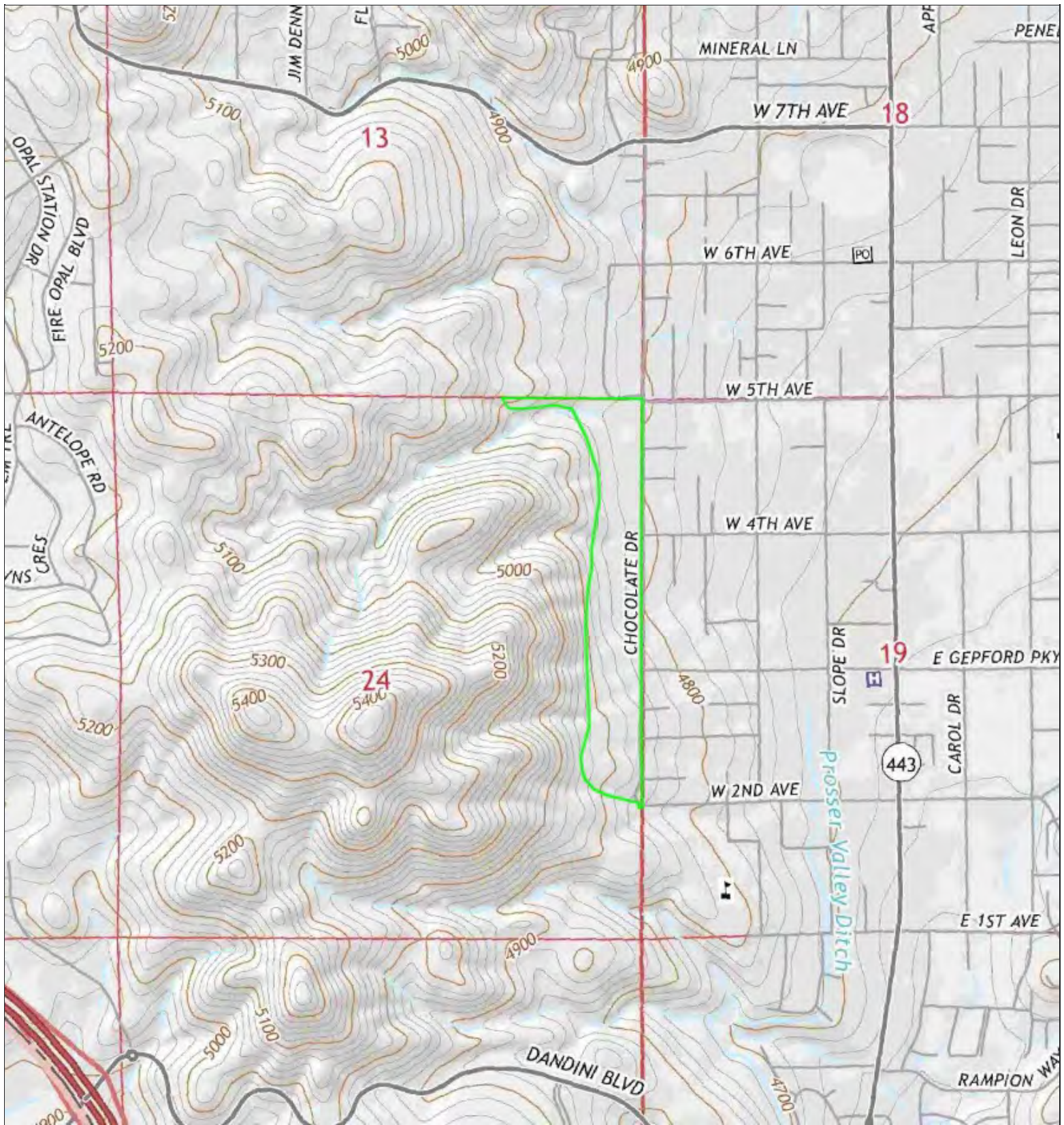
Scale: 1:18000




Chocolate Drive
Sun Valley, NV

Date: 11/04/21
Project No. 21-198

Figure No:
1



 Proposed Multifamily Development

Scale: 1:18000




Proposed Multifamily Development
Chocolate Drive, Sun Valley, NV

Date: 11/05/21
Project No. 21-198

Figure No:
2



 Proposed Multifamily Development

Scale: 1:9000



Proposed Multifamily Development
Chocolate Drive, Sun Valley, NV

Date: 11/05/21
Project No.
21-198

Figure No:
3

Appendix C

Regulatory Database Report



DATABASE REPORT

Project Property: *Proposed Multifamily Development
Chocolate Drive
Sun Valley NV 89433*

Project No: *21-198*

Report Type: *Database Report*

Order No: *21102800172*

Requested by: *Arkose Environmental, Inc.*

Date Completed: *November 1, 2021*

Environmental Risk Information Services

A division of Glacier Media Inc.

1.866.517.5204 | info@erisinfo.com | erisinfo.com

Table of Contents

Table of Contents.....	2
Executive Summary.....	3
Executive Summary: Report Summary.....	4
Executive Summary: Site Report Summary - Project Property.....	8
Executive Summary: Site Report Summary - Surrounding Properties.....	9
Executive Summary: Summary by Data Source.....	10
Map.....	12
Aerial.....	15
Topographic Map.....	16
Detail Report.....	17
Unplottable Summary.....	22
Unplottable Report.....	23
Appendix: Database Descriptions.....	25
Definitions.....	35

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Executive Summary

Property Information:

Project Property: *Proposed Multifamily Development
Chocolate Drive Sun Valley NV 89433*

Project No: 21-198

Coordinates:

Latitude: 39.58746769
Longitude: -119.79029241
UTM Northing: 4,385,691.69
UTM Easting: 260,376.41
UTM Zone: UTM Zone 11S

Elevation: 4,835 FT

Order Information:

Order No: 21102800172
Date Requested: October 28, 2021
Requested by: Arkose Environmental, Inc.
Report Type: Database Report

Historicals/Products:

Aerial Photographs *Historical Aerials (with Project Boundaries)*
City Directory Search *CD - 2 Street Search*
ERIS Xplorer [ERIS Xplorer](#)
Excel Add-On *Excel Add-On*
Fire Insurance Maps *US Fire Insurance Maps*
Physical Setting Report (PSR) *Physical Setting Report (PSR)*
Topographic Map *Topographic Maps*
Vapor Screening Tool *Vapor Screening Tool*

Executive Summary: Report Summary

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

Database	Searched	Search Radius	Project Property	Within 0.12mi	0.125mi to 0.25mi	0.25mi to 0.50mi	0.50mi to 1.00mi	Total
REFN	Y	0.25	0	0	0	-	-	0
BULK TERMINAL	Y	0.25	0	0	0	-	-	0
SEMS LIEN	Y	PO	0	-	-	-	-	0
SUPERFUND ROD	Y	1	0	0	0	0	0	0
State								
SHWS	Y	1	0	0	0	2	2	4
DELISTED SHWS	Y	1	0	0	0	0	1	1
SWF/LF	Y	0.5	0	0	0	2	-	2
LUST	Y	0.5	0	0	0	1	-	1
DELISTED LST	Y	0.5	0	0	0	0	-	0
UST	Y	0.25	0	0	0	-	-	0
UST NONCOMP	Y	0.25	0	0	0	-	-	0
AST	Y	1	0	0	0	0	0	0
AST SERC	Y	0.25	0	0	0	-	-	0
DTNK	Y	0.25	0	0	0	-	-	0
VCP	Y	0.5	0	0	0	0	-	0
BROWNFIELDS	Y	0.5	0	0	0	0	-	0
Tribal								
INDIAN LUST	Y	0.5	0	0	0	0	-	0
INDIAN UST	Y	0.25	0	0	0	-	-	0
DELISTED ILST	Y	0.5	0	0	0	0	-	0
DELISTED IUST	Y	0.25	0	0	0	-	-	0
County								
LUST WASHOE	Y	0.5	0	0	0	1	-	1
UST WASHOE	Y	0.25	0	0	0	-	-	0
<u>Additional Environmental Records</u>								
Federal								
PFAS NPL	Y	0.5	0	0	0	0	-	0
FINDS/FRS	Y	PO	0	-	-	-	-	0
TRIS	Y	PO	0	-	-	-	-	0
PFAS TRI	Y	0.5	0	0	0	0	-	0
PFAS WATER	Y	0.5	0	0	0	0	-	0
HMIRS	Y	0.125	0	0	-	-	-	0

Database	Searched	Search Radius	Project Property	Within 0.12mi	0.125mi to 0.25mi	0.25mi to 0.50mi	0.50mi to 1.00mi	Total
NCDL	Y	0.125	0	0	-	-	-	0
TSCA	Y	0.125	0	0	-	-	-	0
HIST TSCA	Y	0.125	0	0	-	-	-	0
FTTS ADMIN	Y	PO	0	-	-	-	-	0
FTTS INSP	Y	PO	0	-	-	-	-	0
PRP	Y	PO	0	-	-	-	-	0
SCRD DRYCLEANER	Y	0.5	0	0	0	0	-	0
ICIS	Y	PO	0	-	-	-	-	0
FED DRYCLEANERS	Y	0.25	0	0	0	-	-	0
DELISTED FED DRY	Y	0.25	0	0	0	-	-	0
FUDS	Y	1	0	0	0	0	0	0
FORMER NIKE	Y	1	0	0	0	0	0	0
PIPELINE INCIDENT	Y	PO	0	-	-	-	-	0
MLTS	Y	PO	0	-	-	-	-	0
HIST MLTS	Y	PO	0	-	-	-	-	0
MINES	Y	0.25	0	0	0	-	-	0
SMCRA	Y	1	0	0	0	0	0	0
MRDS	Y	1	0	0	0	0	0	0
URANIUM	Y	1	0	0	0	0	0	0
ALT FUELS	Y	0.25	0	0	0	-	-	0
SSTS	Y	0.25	0	0	0	-	-	0
PCB	Y	0.5	0	0	0	0	-	0
State								
SPILLS	Y	0.125	0	0	-	-	-	0
HIST SPL	Y	0.125	0	0	-	-	-	0
TIER 2	Y	0.125	0	0	-	-	-	0
AIR PERMIT	Y	0.25	0	0	0	-	-	0
RECY HAZ	Y	PO	0	-	-	-	-	0
Tribal <i>No Tribal additional environmental record sources available for this State.</i>								
County								
AIR PERMIT WASHOE	Y	0.25	0	0	0	-	-	0
Total:			0	0	0	6	3	9

* PO – Property Only

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

Executive Summary: Site Report Summary - Project Property

<i>Map Key</i>	<i>DB</i>	<i>Company/Site Name</i>	<i>Address</i>	<i>Direction</i>	<i>Distance (mi/ft)</i>	<i>Elev Diff (ft)</i>	<i>Page Number</i>
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No records found in the selected databases for the project property.

Executive Summary: Site Report Summary - Surrounding Properties

Map Key	DB	Company/Site Name	Address	Direction	Distance (mi/ft)	Elev Diff (ft)	Page Number
1	SWF/LF	AutoZone	NV	ENE	0.41 / 2,163.23	-114	17
2	SWF/LF	O'Reilly Auto Parts (Kragen & Checker)	NV	ENE	0.44 / 2,306.71	-129	17
3	SHWS	Sun Valley Scholari's	5430 Sun Valley Blvd Sun Valley NV APN: Sun Valley NV	ENE	0.47 / 2,472.49	-126	17
4	SHWS	Golden Gate Petroleum	5190 Sun Valley Boulevard Sun Valley NV APN: Sun Valley NV	ESE	0.48 / 2,537.97	-170	18
4	LUST	Golden Gate Petroleum	5190 Sun Valley Boulevard Sun Valley NV APN: Sun Valley NV Site Code: 4-000408 Report Date Closure Date: 8/13/2020 8:00 PM 1/4/2021 7:00 PM, 8/10/2006 8:00 PM	ESE	0.48 / 2,537.97	-170	19
4	LUST WASHOE	GOLDEN GATE PETROLEUM	5190 SUN VALLEY BLVD. NV UST No Status: 407	ESE	0.48 / 2,537.97	-170	20
5	DELISTED SHWS	Truckee Meadows Community College	7000 Dandini Boulevard Reno 89512 NV	SSW	0.72 / 3,791.91	126	20
6	SHWS	Sun Valley Elementary School	5490 Leon Drive Sun Valley NV APN: Sun Valley NV	ENE	0.72 / 3,810.14	-138	20
7	SHWS	Truitt Property	265 East 6th Street (Sun Valley) Sparks NV APN: NV	ENE	0.89 / 4,697.71	-115	21

Executive Summary: Summary by Data Source

Standard

State

SHWS - Bureau of Corrective Actions' Project Tracking Database

A search of the SHWS database, dated May 27, 2021 has found that there are 4 SHWS site(s) within approximately 1.00 miles of the project property.

<u>Lower Elevation</u>	<u>Address</u>	<u>Direction</u>	<u>Distance (mi/ft)</u>	<u>Map Key</u>
Sun Valley Scholari's	5430 Sun Valley Blvd Sun Valley NV APN: Sun Valley NV	ENE	0.47 / 2,472.49	<u>3</u>
Golden Gate Petroleum	5190 Sun Valley Boulevard Sun Valley NV APN: Sun Valley NV	ESE	0.48 / 2,537.97	<u>4</u>
Sun Valley Elementary School	5490 Leon Drive Sun Valley NV APN: Sun Valley NV	ENE	0.72 / 3,810.14	<u>6</u>
Truitt Property	265 East 6th Street (Sun Valley) Sparks NV APN: NV	ENE	0.89 / 4,697.71	<u>7</u>

DELISTED SHWS - Delisted Bureau of Corrective Actions' Project Tracking Database

A search of the DELISTED SHWS database, dated May 27, 2021 has found that there are 1 DELISTED SHWS site(s) within approximately 1.00 miles of the project property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction</u>	<u>Distance (mi/ft)</u>	<u>Map Key</u>
Truckee Meadows Community College	7000 Dandini Boulevard Reno 89512 NV	SSW	0.72 / 3,791.91	<u>5</u>

SWF/LF - Solid Waste Facilities and Landfill Sites

A search of the SWF/LF database, dated Nov 14, 2019 has found that there are 2 SWF/LF site(s) within approximately 0.50 miles of the project property.

<u>Lower Elevation</u>	<u>Address</u>	<u>Direction</u>	<u>Distance (mi/ft)</u>	<u>Map Key</u>
AutoZone	NV	ENE	0.41 / 2,163.23	<u>1</u>
O'Reilly Auto Parts (Kragen & Checker)	NV	ENE	0.44 / 2,306.71	<u>2</u>

<u>Lower Elevation</u>	<u>Address</u>	<u>Direction</u>	<u>Distance (mi/ft)</u>	<u>Map Key</u>
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LUST - Leaking Underground Storage Tanks

A search of the LUST database, dated May 27, 2021 has found that there are 1 LUST site(s) within approximately 0.50 miles of the project property.

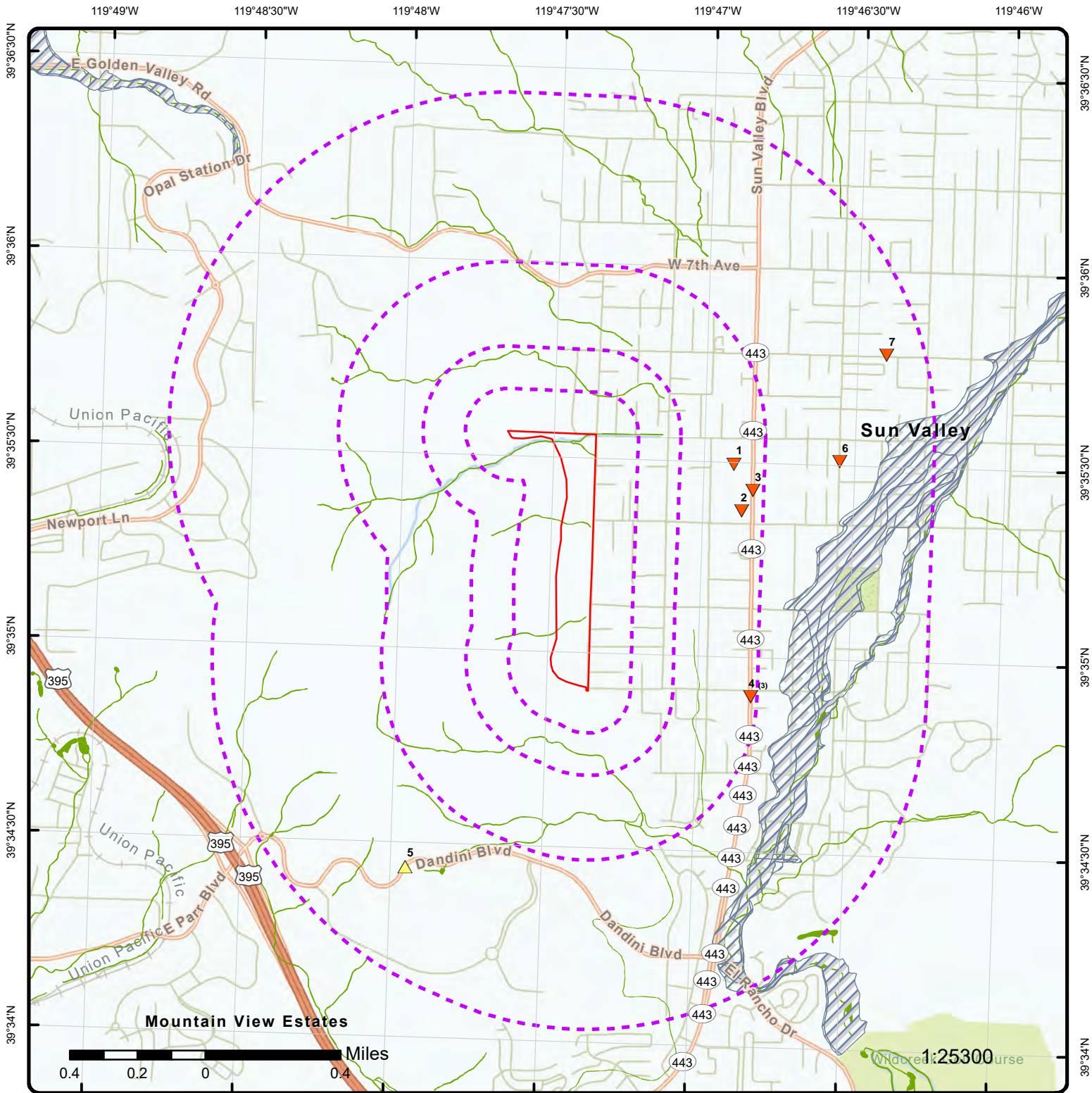
<u>Lower Elevation</u>	<u>Address</u>	<u>Direction</u>	<u>Distance (mi/ft)</u>	<u>Map Key</u>
Golden Gate Petroleum	5190 Sun Valley Boulevard Sun Valley NV APN: Sun Valley NV Site Code: 4-000408 Report Date Closure Date: 8/13/2020 8:00 PM 1/4/2021 7:00 PM, 8/10/2006 8:00 PM	ESE	0.48 / 2,537.97	4

County

LUST WASHOE - Washoe County Leaking Underground Storage Tanks

A search of the LUST WASHOE database, dated Aug 3, 2020 has found that there are 1 LUST WASHOE site(s) within approximately 0.50 miles of the project property.

<u>Lower Elevation</u>	<u>Address</u>	<u>Direction</u>	<u>Distance (mi/ft)</u>	<u>Map Key</u>
GOLDEN GATE PETROLEUM	5190 SUN VALLEY BLVD. NV UST No Status: 407	ESE	0.48 / 2,537.97	4

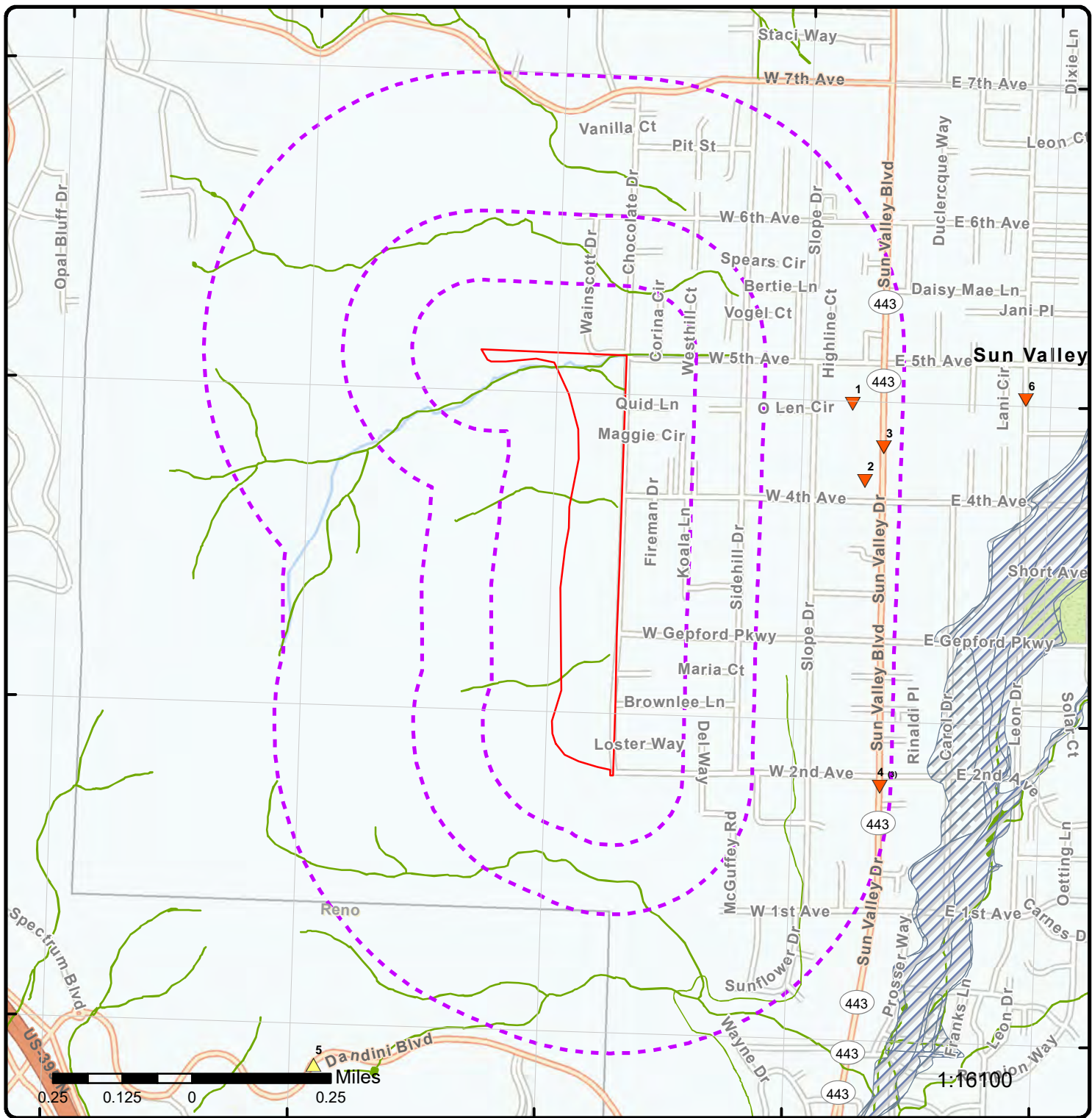


Map: 1.0 Mile Radius

Order Number: 21102800172
 Address: Chocolate Drive, Sun Valley, NV



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

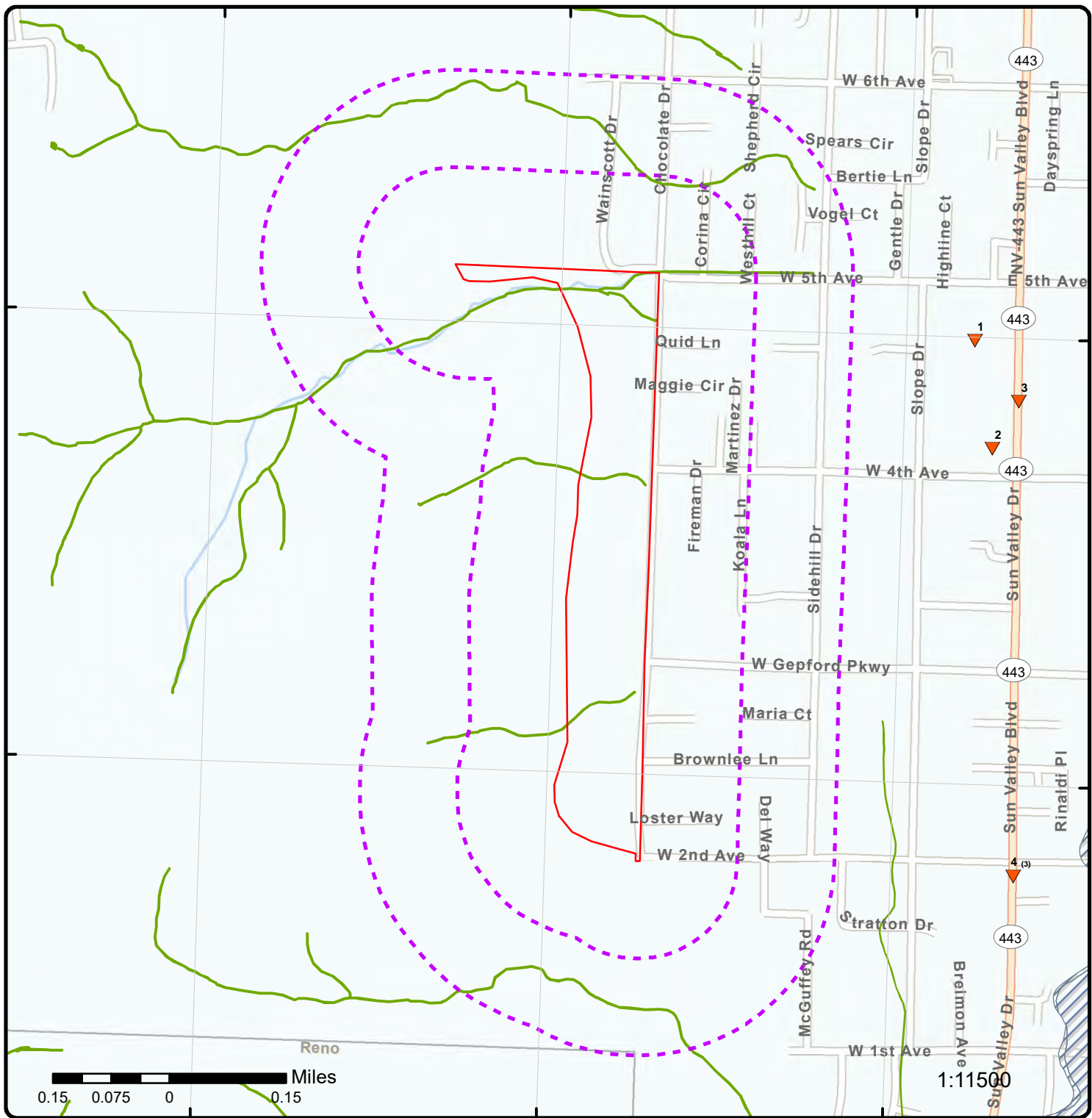


Map: 0.5 Mile Radius

Order Number: 21102800172
Address: Chocolate Drive, Sun Valley, NV



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



Map: 0.25 Mile Radius

Order Number: 21102800172
Address: Chocolate Drive, Sun Valley, NV



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

119°48'W

119°47'30"W

119°47'W

39°35'30"N

39°35'N

39°35'30"N

39°35'N



0.1 0.05 0 0.1 Miles

1:10000
 Source: Esri, Maxar, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

Aerial Year: 2021

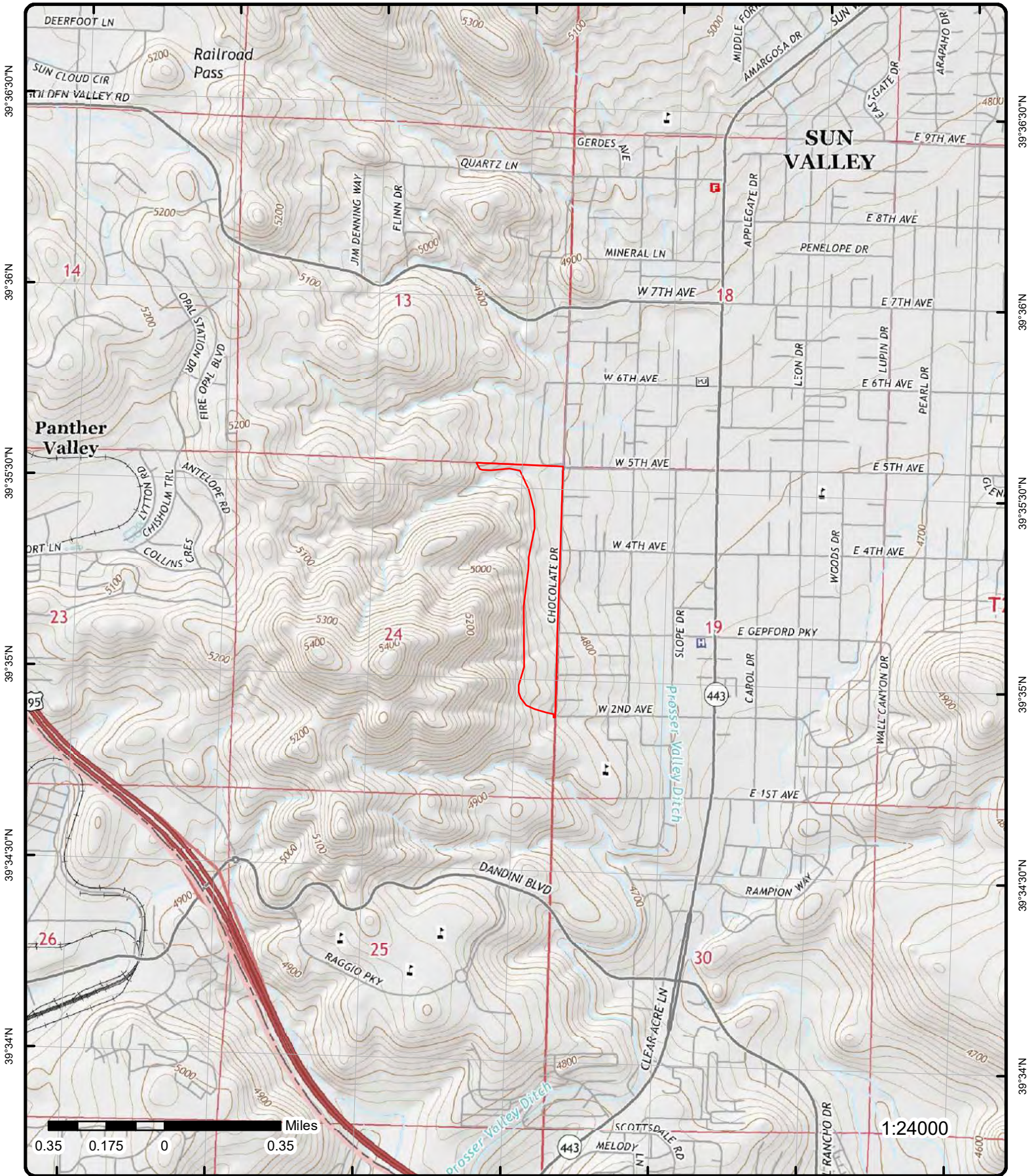
Address: Chocolate Drive, Sun Valley, NV

Source: ESRI World Imagery

Order Number: 21102800172



© ERIS Information Inc.



Topographic Map

Year: 2015

Order Number: 21102800172

Address: Chocolate Drive, NV



Quadrangle(s): Reno, NV

© ERIS Information Inc.

Source: USGS Topographic Map

Detail Report

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB		
1	1 of 1	ENE	0.41 / 2,163.23	4,720.97 / -114	AutoZone NV	SWF/LF		
<table style="width: 100%; border: none;"> <tr> <td style="width: 50%; vertical-align: top;"> Facility ID: 1541 Status: Recycler Facility Status: Facility Type: Expiration Date: Location Address: 5475 Sun Valley Blvd Location Addr(GIS): Location City: Location City (GIS): Facility Abbrvtn: Facility Abbreviation: Facility Owner: Is Recycler: Facility Site Name: Notes: Web Page: UTM Metadata: Original Source: Nevada Division of Environmental Protection </td> <td style="width: 50%; vertical-align: top;"> County (GIS): Northing: 4386126.6214 Easting: 261138.2986 Lat: 39.5915946547213 Lon: -119.781587032513 UTM Northing: UTM Easting: Latitude (GIS): Longitude (GIS): Shape: Collection Method: Location Taken: </td> </tr> </table>							Facility ID: 1541 Status: Recycler Facility Status: Facility Type: Expiration Date: Location Address: 5475 Sun Valley Blvd Location Addr(GIS): Location City: Location City (GIS): Facility Abbrvtn: Facility Abbreviation: Facility Owner: Is Recycler: Facility Site Name: Notes: Web Page: UTM Metadata: Original Source: Nevada Division of Environmental Protection	County (GIS): Northing: 4386126.6214 Easting: 261138.2986 Lat: 39.5915946547213 Lon: -119.781587032513 UTM Northing: UTM Easting: Latitude (GIS): Longitude (GIS): Shape: Collection Method: Location Taken:
Facility ID: 1541 Status: Recycler Facility Status: Facility Type: Expiration Date: Location Address: 5475 Sun Valley Blvd Location Addr(GIS): Location City: Location City (GIS): Facility Abbrvtn: Facility Abbreviation: Facility Owner: Is Recycler: Facility Site Name: Notes: Web Page: UTM Metadata: Original Source: Nevada Division of Environmental Protection	County (GIS): Northing: 4386126.6214 Easting: 261138.2986 Lat: 39.5915946547213 Lon: -119.781587032513 UTM Northing: UTM Easting: Latitude (GIS): Longitude (GIS): Shape: Collection Method: Location Taken:							
2	1 of 1	ENE	0.44 / 2,306.71	4,706.60 / -129	O'Reilly Auto Parts (Kragen & Checker) NV	SWF/LF		
<table style="width: 100%; border: none;"> <tr> <td style="width: 50%; vertical-align: top;"> Facility ID: 1634 Status: Unknow Facility Status: Facility Type: Expiration Date: Location Address: 5415 Sun Valley Blvd Location Addr(GIS): Location City: Location City (GIS): Facility Abbrvtn: Facility Abbreviation: Facility Owner: Is Recycler: Facility Site Name: Notes: Web Page: UTM Metadata: Original Source: Nevada Division of Environmental Protection </td> <td style="width: 50%; vertical-align: top;"> County (GIS): Northing: 4385903.2775 Easting: 261174.368 Lat: 39.589594662694 Lon: -119.781087033041 UTM Northing: UTM Easting: Latitude (GIS): Longitude (GIS): Shape: Collection Method: Location Taken: </td> </tr> </table>							Facility ID: 1634 Status: Unknow Facility Status: Facility Type: Expiration Date: Location Address: 5415 Sun Valley Blvd Location Addr(GIS): Location City: Location City (GIS): Facility Abbrvtn: Facility Abbreviation: Facility Owner: Is Recycler: Facility Site Name: Notes: Web Page: UTM Metadata: Original Source: Nevada Division of Environmental Protection	County (GIS): Northing: 4385903.2775 Easting: 261174.368 Lat: 39.589594662694 Lon: -119.781087033041 UTM Northing: UTM Easting: Latitude (GIS): Longitude (GIS): Shape: Collection Method: Location Taken:
Facility ID: 1634 Status: Unknow Facility Status: Facility Type: Expiration Date: Location Address: 5415 Sun Valley Blvd Location Addr(GIS): Location City: Location City (GIS): Facility Abbrvtn: Facility Abbreviation: Facility Owner: Is Recycler: Facility Site Name: Notes: Web Page: UTM Metadata: Original Source: Nevada Division of Environmental Protection	County (GIS): Northing: 4385903.2775 Easting: 261174.368 Lat: 39.589594662694 Lon: -119.781087033041 UTM Northing: UTM Easting: Latitude (GIS): Longitude (GIS): Shape: Collection Method: Location Taken:							
3	1 of 1	ENE	0.47 / 2,472.49	4,709.57 / -126	Sun Valley Scholari's 5430 Sun Valley Blvd Sun Valley NV APN: Sun Valley NV	SHWS		
<table style="width: 100%; border: none;"> <tr> <td style="width: 50%; vertical-align: top;"> Site Code: D-001187 County ID: 16 County: Washoe City: Sun Valley </td> <td style="width: 50%; vertical-align: top;"> Facility Zip: Facility Zip 4: Lat Dec Deg: 39.590462 Long Dec Deg: -119.778703 </td> </tr> </table>							Site Code: D-001187 County ID: 16 County: Washoe City: Sun Valley	Facility Zip: Facility Zip 4: Lat Dec Deg: 39.590462 Long Dec Deg: -119.778703
Site Code: D-001187 County ID: 16 County: Washoe City: Sun Valley	Facility Zip: Facility Zip 4: Lat Dec Deg: 39.590462 Long Dec Deg: -119.778703							

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
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Site Cleanup - The Bureau's Project Tracking (PT) Database

Report Date:	10/5/2020	File Location:	NDEP: Carson City
Closure Date:	11/2/2020	Media:	Soil
Closure Type:	Clean w/ Remed	Contaminant:	Diesel
Program:	non-LUST Corrective Action	Event:	
Officer:			

NDEP Open Data - All BCA Sites

Site No:	1187	Container:	Mobile Source
Petroleum Fund ID:		Source:	
Spill No:	201005-03	Lat Dec Deg:	39.590462
Event ID:	14277	Long Dec Deg:	-119.778703
Event Type ID:	3	X:	
Event Type Category:	Confirmed Release	Y:	
Report Date:	10/4/2020 8:00 PM	Datum:	
Closure Date:	11/1/2020 7:00 PM	Collection Method:	
Program:	non-LUST Corrective Action	C Type:	
Contaminant:		Date Last Modified:	
Media:	Soil	Description:	
File Loc:	NDEP: Carson City		
Contaminant Desc:	Approximately 10-15 gallons of diesel fuel, affecting more than 3 cubic yards of soil		
Coordinate Comments:			

NDEP Open Data - eMap BCA

Site No:	1187	File Loc:	NDEP: Carson City
Petroleum Fund ID:		Source:	
Spill No:	201005-03	Lat Dec Deg:	39.590462
Event ID:	14277	Long Dec Deg:	-119.778703
Event Type ID:	3	X:	
Event Type Category:	Confirmed Release	Y:	
Report Date:	10/4/2020 8:00 PM	Datum:	
Closure Date:	11/1/2020 7:00 PM	Collection Method:	
Program:	non-LUST Corrective Action	Contaminant:	Diesel
Media:	Soil	C Type:	Clean w/ Remed
Container:	Mobile Source	Date Last Modified:	11/2/2020 4:05 AM
Description:			
Contaminant Desc:	Approximately 10-15 gallons of diesel fuel, affecting more than 3 cubic yards of soil		
Coordinate Comments:			

4	1 of 3	ESE	0.48 / 2,537.97	4,665.32 / -170	Golden Gate Petroleum 5190 Sun Valley Boulevard Sun Valley NV APN: Sun Valley NV	SHWS
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Site Code:	4-000408	Facility Zip:	
County ID:	16	Facility Zip 4:	
County:	Washoe	Lat Dec Deg:	39.5815327
City:	Sun Valley	Long Dec Deg:	-119.7799203

Site Cleanup - The Bureau's Project Tracking (PT) Database

Report Date:	8/14/2020	File Location:	NDEP: Carson City
Closure Date:	1/5/2021	Media:	Soil
Closure Type:	Clean w/ Remed	Contaminant:	Diesel, Gasoline
Program:	LUST	Event:	
Officer:			

Report Date:	8/11/2006	File Location:	NDEP: Carson City
Closure Date:		Media:	Ground Water

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
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Closure Type:				Contaminant:	Gasoline
Program:	LUST			Event:	Confirmed Release
Officer:	ksalls				

NDEP Open Data - All BCA Sites

Site No:	408	Container:	UST
Petroleum Fund ID:		Source:	
Spill No:	200814-01	Lat Dec Deg:	39.5817235
Event ID:	14247	Long Dec Deg:	-119.7797433
Event Type ID:	3	X:	
Event Type Category:	Confirmed Release	Y:	
Report Date:	8/13/2020 8:00 PM	Datum:	NAD83
Closure Date:	1/4/2021 7:00 PM	Collection Method:	GZ
Program:	LUST	C Type:	
Contaminant:		Date Last Modified:	
Media:	Soil	Description:	
File Loc:	NDEP: Carson City		
Contaminant Desc:	Less than 20 Cubic yards of soil were removed, at a maximum contaminant concentration of 1600 ppm tph. Soil has been managed under this case and the groundwater co-mingling will be handled under the other 4-000408 case		

Coordinate Comments:

Site No:	408	Container:	UST
Petroleum Fund ID:	2007000016	Source:	NDEP
Spill No:	060810-01	Lat Dec Deg:	39.5815327
Event ID:	8413	Long Dec Deg:	-119.7799203
Event Type ID:	3	X:	
Event Type Category:	Confirmed Release	Y:	
Report Date:	8/10/2006 8:00 PM	Datum:	NAD83
Closure Date:		Collection Method:	GZ
Program:	LUST	C Type:	
Contaminant:	Gasoline	Date Last Modified:	3/21/2018 5:21 AM
Media:	Ground Water	Description:	
File Loc:	NDEP: Carson City		
Contaminant Desc:			
Coordinate Comments:			

<u>4</u>	2 of 3	ESE	0.48 / 2,537.97	4,665.32 / -170	Golden Gate Petroleum 5190 Sun Valley Boulevard Sun Valley NV APN: Sun Valley NV	LUST
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Site Code:	4-000408	Facility City:	Sun Valley
Site No:	408	Facility Zip:	
County ID:	16	Facility Zip 4:	
County:	Washoe		

Site Cleanup - The Bureau's Project Tracking (PT) Database

Program:	LUST	End:	
Closure Type:		Event:	Confirmed Release
Report Date:	8/11/2006	Case Officer:	ksalls
Media:	Ground Water	File Location:	NDEP: Carson City
Contaminant:	Gasoline		
Program:	LUST	End:	1/5/2021
Closure Type:	Clean w/ Remed	Event:	
Report Date:	8/14/2020	Case Officer:	
Media:	Soil	File Location:	NDEP: Carson City
Contaminant:	Diesel, Gasoline		

NDEP Open Data - LUST Sites BCA

Spill No:	200814-01	Contaminant:	Diesel
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Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
Petro Fund ID: Event ID: 14247 Event Type ID: 3 Event Type Category: Confirmed Release Report Date: 8/13/2020 8:00 PM Closure Date: 1/4/2021 7:00 PM Date Last Modified: 8/17/2020 7:45 AM Program: LUST Container: UST Media: Soil Contaminant Desc: Less than 20 Cubic yards of soil were removed, at a maximum contaminant concentration of 1600 ppm tph. Soil has been managed under this case and the groundwater co-mingling will be handled under the other 4-000408 case						
File Loc: NDEP: Carson City Description: Coordinate Comment: Latitude: 39.5817235 Longitude: -119.7797433 Datum: NAD83 C Type: Clean w/ Remed Source: Collection: GZ						
Spill No: 060810-01 Petro Fund ID: 2007000016 Event ID: 8413 Event Type ID: 3 Event Type Category: Confirmed Release Report Date: 8/10/2006 8:00 PM Closure Date: Date Last Modified: 3/21/2018 5:21 AM Program: LUST Container: UST Media: Ground Water Contaminant Desc:						
Contaminant: Gasoline File Loc: NDEP: Carson City Description: Coordinate Comment: Latitude: 39.5815327 Longitude: -119.7799203 Datum: NAD83 C Type: Source: NDEP Collection: GZ						
<u>4</u>	3 of 3	ESE	0.48 / 2,537.97	4,665.32 / -170	GOLDEN GATE PETROLEUM 5190 SUN VALLEY BLVD. NV	LUST WASHOE
UST No: 407 Status: Confirmed Release: 2 No Tanks: 7 No Closed: 4 UST Note: Emergency Action: 0 Initiated Cleanup: 2 Under Control: 2 Cleanup Complete: 1 Remediation Ord: 2						
<u>5</u>	1 of 1	SSW	0.72 / 3,791.91	4,961.31 / 126	Truckee Meadows Community College 7000 Dandini Boulevard Reno 89512 NV	DELISTED SHWS
Site Code: D-001269 City: County ID: County: Washoe Facility Zip: Facility Zip 4: Lat Decdeg: Long Decdeg: Original Source: SHWS Record Date: 20-JUL-2017						
<u>6</u>	1 of 1	ENE	0.72 / 3,810.14	4,697.30 / -138	Sun Valley Elementary School 5490 Leon Drive Sun Valley NV APN: Sun Valley NV	SHWS
Site Code: D-000754 County ID: 16 County: Washoe City: Sun Valley Facility Zip: Facility Zip 4: Lat Dec Deg: 39.5924906 Long Dec Deg: -119.775814						

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
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Site Cleanup - The Bureau's Project Tracking (PT) Database

Report Date:	7/16/2007	File Location:	NDEP: CC-Storage
Closure Date:	12/26/2007	Media:	Ground Water
Closure Type:	Investigation Closed	Contaminant:	Heating Oil
Program:	non-LUST Corrective Action	Event:	
Officer:			

NDEP Open Data - All BCA Sites

Site No:	754	Container:	UST
Petroleum Fund ID:		Source:	NDEP
Spill No:	070716-05	Lat Dec Deg:	39.5924906
Event ID:	7721	Long Dec Deg:	-119.775814
Event Type ID:	3	X:	
Event Type Category:	Confirmed Release	Y:	
Report Date:	7/15/2007 8:00 PM	Datum:	
Closure Date:	12/25/2007 7:00 PM	Collection Method:	
Program:	non-LUST Corrective Action	C Type:	
Contaminant:		Date Last Modified:	
Media:	Ground Water	Description:	
File Loc:	NDEP: CC-Storage		
Contaminant Desc:			
Coordinate Comments:	Location obtained by geocoding FacilityAddress against Tiger 2007 streets.		

NDEP Open Data - eMap BCA

Site No:	754	File Loc:	NDEP: CC-Storage
Petroleum Fund ID:		Source:	NDEP
Spill No:	070716-05	Lat Dec Deg:	39.5924906
Event ID:	7721	Long Dec Deg:	-119.775814
Event Type ID:	3	X:	
Event Type Category:	Confirmed Release	Y:	
Report Date:	7/15/2007 8:00 PM	Datum:	
Closure Date:	12/25/2007 7:00 PM	Collection Method:	
Program:	non-LUST Corrective Action	Contaminant:	Heating Oil
Media:	Ground Water	C Type:	Investigation Closed
Container:	UST	Date Last Modified:	
Description:			
Contaminant Desc:			
Coordinate Comments:	Location obtained by geocoding FacilityAddress against Tiger 2007 streets.		

7	1 of 1	ENE	0.89 / 4,697.71	4,720.52 / -115	Truitt Property 265 East 6th Street (Sun Valley) Sparks NV APN: NV	SHWS
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Site Code:	D-000380	Facility Zip:	
County ID:		Facility Zip 4:	
County:	Washoe	Lat Dec Deg:	
City:		Long Dec Deg:	

Site Cleanup - The Bureau's Project Tracking (PT) Database

Report Date:	4/2/1997	File Location:	NDEP: CC-Storage
Closure Date:	5/2/1997	Media:	Soil
Closure Type:	Clean w/ Remed	Contaminant:	Heating Oil
Program:		Event:	
Officer:			

Unplottable Summary

Total: 3 Unplottable sites

DB	Company Name/Site Name	Address	City	Zip	ERIS ID
NCDL		5310 Chocolate Drive	Sparks NV		815051834
SPILLS	Yellow House with many cars in yard.	Yellow House on 7th Street between Chocolate & Sidehill in Sun Valley	Sun Valley NV		845342629
SPILLS		Back yard near garage. Large oil stain on ground. Buckets of oil sitting around. Located off of dirt road, Chocolate Drive	Sun Valley NV		845344057

Unplottable Report

Site: 5310 Chocolate Drive Sparks NV NCDL
Date: 05/08/2007
County: Washoe

Site: Yellow House with many cars in yard. SPILLS
Yellow House on 7th Street between Chocolate & Sidehill in Sun Valley Sun Valley NV

Dep No:	150423-01	RPT Address:	
APN No:		RPT City:	
Fed Dot No:		RPT State:	NV
RPT Date:	4/23/2015	RPT Zip:	
Inc Date:	4/23/2015	RPT Zip4:	
Time:		RPT Time:	
Anonymous:	Yes	Fac Zip4:	
Material:	Motor oil	Fac Tel Ext:	
Concent:	Unknown	Rep Name:	
Quantity:	Unknown	Rep Agency:	
Media:	Soil	Telephone:	
Rcvd By:	Alexi Lanza	Rep Tel Ext:	
Fed Rq:		Address:	7th Street between Chocolate & Sidehill
State Rq:		City:	Sun Valley
Container:	Drum/Bucket	State:	NV
Loc Address:		Zipcode:	
UST Facility ID:		Contact:	
Confrmd Vislly:		Phone:	
SW Impact:		Spills State:	NV
GW Impact:		County:	Washoe
Enforce:		Township:	
Closed:		Range:	
RQ:		Section:	
Trans No:		Q Q2:	
REGRECVTM:		Hwy Mkr:	
Undot1:		P County:	
Cas1:		L Zip:	
Chris1:		Milepost:	
Unit1:		E Lat:	
H2O Quant1:		E Long:	
H2O Unit1:		Cause CD:	
VID:		CINFO:	
SPINFO:		Notified:	
Medium:		Name:	
Waterway:			
Cause:	There are several cars being worked on at the above location. Used oil is being dump onto the ground especially form a drum where it's normally collected. This appears to be an on-going event.		
Action:	The house described above appears to be located at 251 Cactus Cir, Sun Valley, NV 89433. Cross street is Pit Lane.		
Oversight:	County Washoe Health District Teresa Long, James English, Rick Sanchez, Mike Ezell Fax: (775) 328-6176		
Oversight Email:			
Comments:			
Comment2:			
Comment3:			
Follow Up Info:			
FYI 1:			
FYI 2:			
FYI 3:			
FYI 1 Email:			
FYI 2 Email:			
FYI 3 Email:			

Site:

Back yard near garage. Large oil stain on ground. Buckets of oil sitting around. Located off of dirt road,
Chocolate Drive Sun Valley NV

SPILLS

Dep No: 080603-01
APN No:
Fed Dot No:
RPT Date: 6/3/2008
Inc Date: 6/3/2008
Time: 800
Anonymous: Yes
Material: Oil
Concent: Unknown
Quantity: Unknown
Media: Soil
Rcvd By: Mary Siders
Fed Rq: Unk
State Rq: Unk

Container:
Loc Address:
UST Facility ID:
Confrmd Vislly:
SW Impact:
GW Impact:
Enforce:
Closed:
RQ:
Trans No:
REGRECVTM:
Undot1:
Cas1:
Chris1:
Unit1:
H2O Quant1:
H2O Unit1:
VID:
SPINFO:
Medium:
Waterway:
Cause:

RPT Address:
RPT City:
RPT State:
RPT Zip:
RPT Zip4: 1110
RPT Time:
Fac Zip4:
Fac Tel Ext:
Rep Name:
Rep Agency:
Telephone:
Rep Tel Ext:
Address: 375 Loster Way
City: Sun Valley
State: NV
Zipcode: 89433
Contact:
Phone:
Spills State: NV
County: Washoe
Township:
Range:
Section:
Q Q2:
Hwy Mkr:
P County:
L Zip:
Milepost:
E Lat:
E Long:
Cause CD:
CINFO:
Notified:
Name:

Caller was walking her dog who wandered into the neighbor's back yard. She went in to get dog and saw large oil stain (5 ft across) on soil, along with buckets filled with oil. She was concerned about the oil getting into the groundwater.

Action: None
Oversight: WCDHD, fax 775-328-6176, jrucker@washoecounty.us & pdonald@washoecounty.us

Oversight Email:
Comments: This may not generate a case, but may warrant a site visit to inspect. 6/5/08- See WCDHD Complaint form in hardcopy file

Comment2:
Comment3:
Follow Up Info:
FYI 1:
FYI 2:
FYI 3:
FYI 1 Email:
FYI 2 Email:
FYI 3 Email:

Appendix: Database Descriptions

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

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

Standard Environmental Record Sources

Federal

Formerly Utilized Sites Remedial Action Program:

[DOE FUSRAP](#)

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

Government Publication Date: Mar 4, 2017

National Priority List:

[NPL](#)

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

Government Publication Date: Aug 25, 2021

National Priority List - Proposed:

[PROPOSED NPL](#)

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

Government Publication Date: Aug 25, 2021

Deleted NPL:

[DELETED NPL](#)

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

Government Publication Date: Aug 25, 2021

SEMS List 8R Active Site Inventory:

[SEMS](#)

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

Government Publication Date: Jul 29, 2021

Inventory of Open Dumps, June 1985:

[ODI](#)

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

Government Publication Date: Jun 1985

SEMS List 8R Archive Sites:

[SEMS ARCHIVE](#)

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

Government Publication Date: Jul 29, 2021

Comprehensive Environmental Response, Compensation and Liability Information System -

[CERCLIS](#)

CERCLIS:

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

Government Publication Date: Oct 25, 2013

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

[IODI](#)

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

Government Publication Date: Dec 31, 1998

CERCLIS - No Further Remedial Action Planned:

[CERCLIS NFRAP](#)

An archived site is one at which EPA has determined that assessment has been completed and no further remedial action is planned under the Superfund program at this time. The Archive designation means that, to the best of EPA's knowledge, assessment at a site has been completed and that EPA has determined no further steps will be taken to list this site on the National Priorities List (NPL). This decision does not necessarily mean that there is no hazard associated with a given site; it only means that, based upon available information, the location is not judged to be a potential NPL site.

Government Publication Date: Oct 25, 2013

CERCLIS Liens:

[CERCLIS LIENS](#)

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

Government Publication Date: Jan 30, 2014

RCRA CORRACTS-Corrective Action:

[RCRA CORRACTS](#)

RCRA Info is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. At these sites, the Corrective Action Program ensures that cleanups occur. EPA and state regulators work with facilities and communities to design remedies based on the contamination, geology, and anticipated use unique to each site.

Government Publication Date: Aug 30, 2021

RCRA non-CORRACTS TSD Facilities:

[RCRA TSD](#)

RCRA Info is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. This database includes Non-Corrective Action sites listed as treatment, storage and/or disposal facilities of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA).

Government Publication Date: Aug 30, 2021

RCRA Generator List:

[RCRA LQG](#)

RCRA Info is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. RCRA Info replaces the data recording and reporting abilities of the Resource Conservation and Recovery Information System (RCRIS) and the Biennial Reporting System (BRS). A hazardous waste generator is any person or site whose processes and actions create hazardous waste (see 40 CFR 260.10). Large Quantity Generators (LQGs) generate 1,000 kilograms per month or more of hazardous waste or more than one kilogram per month of acutely hazardous waste.

Government Publication Date: Aug 30, 2021

RCRA Small Quantity Generators List:

[RCRA SQG](#)

RCRA Info is the EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. RCRA Info replaces the data recording and reporting abilities of the Resource Conservation and Recovery Information System (RCRIS) and the Biennial Reporting System (BRS). A hazardous waste generator is any person or site whose processes and actions create hazardous waste (see 40 CFR 260.10). Small Quantity Generators (SQGs) generate more than 100 kilograms, but less than 1,000 kilograms, of hazardous waste per month.

Government Publication Date: Aug 30, 2021

RCRA Very Small Quantity Generators List:

[RCRA VSQG](#)

RCRA Info is the EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. A hazardous waste generator is any person or site whose processes and actions create hazardous waste (see 40 CFR 260.10). Very Small Quantity Generators (VSQG) generate 100 kilograms or less per month of hazardous waste, or one kilogram or less per month of acutely hazardous waste. Additionally, VSQG may not accumulate more than 1,000 kilograms of hazardous waste at any time.

Government Publication Date: Aug 30, 2021

RCRA Non-Generators:

[RCRA NON GEN](#)

RCRA Info is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. RCRA Info replaces the data recording and reporting abilities of the Resource Conservation and Recovery Information System (RCRIS) and the Biennial Reporting System (BRS). A hazardous waste generator is any person or site whose processes and actions create hazardous waste (see 40 CFR 260.10). Non-Generators do not presently generate hazardous waste.

Government Publication Date: Aug 30, 2021

Federal Engineering Controls-ECs:

[FED ENG](#)

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

Government Publication Date: Feb 23, 2021

Federal Institutional Controls- ICs:

[FED INST](#)

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

Government Publication Date: Feb 23, 2021

Land Use Control Information System:

[LUCIS](#)

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

Government Publication Date: Sep 1, 2006

Emergency Response Notification System:

[ERNS 1982 TO 1986](#)

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

Government Publication Date: 1982-1986

Emergency Response Notification System:

[ERNS 1987 TO 1989](#)

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

Government Publication Date: 1987-1989

Emergency Response Notification System:

[ERNS](#)

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

Government Publication Date: Jul 26, 2021

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

[FED BROWNFIELDS](#)

Brownfields are real property, the expansion, redevelopment, or reuse of which may be complicated by the presence or potential presence of a hazardous substance, pollutant, or contaminant. Cleaning up and reinvesting in these properties protects the environment, reduces blight, and takes development pressures off greenspaces and working lands. This database is made available by the United States Environmental Protection Agency (EPA).

Government Publication Date: Aug 20, 2021

FEMA Underground Storage Tank Listing:

[FEMA UST](#)

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

Government Publication Date: Dec 31, 2017

Facility Response Plan:

[FRP](#)

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

Government Publication Date: Dec 2, 2020

Historical Gas Stations:

[HIST GAS STATIONS](#)

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

Government Publication Date: Jul 1, 1930

Petroleum Refineries:

[REFN](#)

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

Government Publication Date: Jul 10, 2020

Petroleum Product and Crude Oil Rail Terminals:

[BULK TERMINAL](#)

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

Government Publication Date: Apr 28, 2020

LIEN on Property:

[SEMS LIEN](#)

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

Government Publication Date: Jul 29, 2021

Superfund Decision Documents:

[SUPERFUND ROD](#)

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

Government Publication Date: Jun 28, 2021

State

Bureau of Corrective Actions' Project Tracking Database:

[SHWS](#)

This is a list of sites available in Nevada Division of Environmental Protection (NDEP) - Bureau of Corrective Actions' Project Tracking (PT) Database. The PT Database includes both Leaking Underground Storage Tank (LUST) cases as well as Corrective Action (non-regulated) sites. This database is state equivalent CERCLIS.

Government Publication Date: May 27, 2021

Delisted Bureau of Corrective Actions' Project Tracking Database:

[DELISTED SHWS](#)

This database contains a list of closed hazardous substance release and Corrective Action (non-regulated) sites that were removed from the Division of Environmental Protection (NDEP) - Bureau of Corrective Actions' Project Tracking (PT) Database.

Government Publication Date: May 27, 2021

Solid Waste Facilities and Landfill Sites:

[SWF/LF](#)

A list of permitted Solid Waste Landfills and other waste management facilities within the state of Nevada. This list is made available by the Nevada Division of Environmental Protection (NDEP) - Bureau of Waste Management.

Government Publication Date: Nov 14, 2019

Leaking Underground Storage Tanks:

[LUST](#)

This is a list of Leaking Underground Storage Tank (LUST) sites available in the Nevada Division of Environmental Protection (NDEP) - Bureau of Corrective Actions' Project Tracking (PT) Database. NDEP indicates there is no way to differentiate between LUST and other (non-LUST) Corrective Action sites - this list includes only those sites where the Program Type is LUST.

Government Publication Date: May 27, 2021

Delisted Leaking Storage Tanks:

[DELISTED LST](#)

This database contains a list of closed Leaking Storage Tank sites that were removed from the Division of Environmental Protection (NDEP) - Bureau of Corrective Actions' Project Tracking (PT) Database.

Government Publication Date: May 27, 2021

Storage Tanks:

[UST](#)

A list of regulated tanks in the State of Nevada. This list is made available by Nevada Division of Environmental Protection (NDEP) which administers the UST Program for the state.

Government Publication Date: Sep 2, 2021

Noncompliant Underground Storage Tanks:

[UST NONCOMP](#)

A list of facilities with tanks that have been issued a red tag and are ineligible to receive deliveries of fuel under the Nevada Administrative Code (NAC) 459.9941. This list is made available by the Nevada Division of Environmental Protection (NDEP).

Government Publication Date: Aug 25, 2021

Aboveground Storage Tanks:

[AST](#)

A list of Aboveground Storage Tanks in the State of Nevada made available by the Nevada Division of Environmental Protection (NDEP). This list no longer updated.

Government Publication Date: Jan 25, 2018

Aboveground Storage Tanks:

[AST SERC](#)

List of aboveground storage tanks made available by the Nevada State Emergency Response Commission (SERC). In January 2009, the SERC discontinued the sharing of facility specific information due to the U.S. EPA's Office of General Counsel and a Nevada Attorney General's guidance relating to the Emergency Planning and Community Right-to-Know Act (EPCRA). According to the SERC, All Appropriate Inquiries (AAI) requirements do not fall under the EPCRA program and the SERC does not and never has regulated ASTs.

Government Publication Date: Jun 17, 2008

Delisted Storage Tanks:

[DTNK](#)

This database contains a list of closed storage tank sites that were removed from the Nevada Division of Environmental Protection (NDEP) which administers the UST Program for the state.

Government Publication Date: Sep 2, 2021

Voluntary Cleanup Program:

[VCP](#)

A list of facilities registered in the Nevada Division of Environmental Protection (NDEP)'s Voluntary Cleanup Program (VCP). The VCP program provides relief from liability to owners who undertake cleanups of contaminated properties under the oversight of the NDEP.

Government Publication Date: May 27, 2021

Project Tracking Database - Brownfields:

[BROWNFIELDS](#)

List of Brownfield sites found in the Nevada Division of Environmental Protection - Bureau of Corrective Actions' Project Tracking Database.

Government Publication Date: May 27, 2021

Tribal

Leaking Underground Storage Tanks (LUSTs) on Indian Lands:

LUSTs on Tribal/Indian Lands in Region 9, which includes Nevada.

Government Publication Date: Apr 8, 2020

INDIAN LUST

Underground Storage Tanks (USTs) on Indian Lands:

USTs on Tribal/Indian Lands in Region 9, which includes Nevada.

Government Publication Date: Apr 8, 2020

INDIAN UST

Delisted Tribal Leaking Storage Tanks:

Leaking Underground Storage Tank facilities which have been removed from the Regional Tribal LUST lists made available by the EPA.

Government Publication Date: Apr 14, 2020

DELISTED ILST

Delisted Tribal Underground Storage Tanks:

Underground Storage Tank facilities which have been removed from the Regional Tribal UST lists made available by the EPA.

Government Publication Date: Apr 14, 2020

DELISTED IUST

County

Washoe County Leaking Underground Storage Tanks:

A list of leaking underground storage tanks. This list is made available by the Washoe County Health District (WCHD).

Government Publication Date: Aug 3, 2020

LUST WASHOE

Washoe County Underground Storage Tanks:

A list of underground storage tanks in Washoe County. The Washoe County Health District (WCHD) administers the Underground Storage Tank (UST) Program in Washoe County via inter-local contract with the Nevada Division of Environmental Protection (NDEP). The WCHD performs routine UST inspections, and oversees UST system installation/decommissioning.

Government Publication Date: Aug 3, 2020

UST WASHOE

Additional Environmental Record Sources

Federal

PFOA/PFOS Contaminated Sites:

List of sites where PFOA or PFOS contaminants have been found in drinking water or soil. Made available by the Federal Environmental Protection Agency (EPA).

Government Publication Date: Sep 17, 2021

PFAS NPL

Facility Registry Service/Facility Index:

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

Government Publication Date: Nov 2, 2020

FINDS/FRS

Toxics Release Inventory (TRI) Program:

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

Government Publication Date: Aug 24, 2021

TRIS

Perfluorinated Alkyl Substances (PFAS) Releases:

[PFAS TRI](#)

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

Government Publication Date: Aug 24, 2021

Perfluorinated Alkyl Substances (PFAS) Water Quality:

[PFAS WATER](#)

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

Government Publication Date: Jul 20, 2020

Hazardous Materials Information Reporting System:

[HMIRS](#)

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

Government Publication Date: Sep 1, 2020

National Clandestine Drug Labs:

[NCDL](#)

The U.S. Department of Justice ("the Department") provides this data as a public service. It contains addresses of some locations where law enforcement agencies reported they found chemicals or other items that indicated the presence of either clandestine drug laboratories or dumpsites. In most cases, the source of the entries is not the Department, and the Department has not verified the entry and does not guarantee its accuracy.

Government Publication Date: Oct 5, 2020

Toxic Substances Control Act:

[TSCA](#)

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

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

Government Publication Date: Apr 11, 2019

Hist TSCA:

[HIST TSCA](#)

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

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

Government Publication Date: Dec 31, 2006

FTTS Administrative Case Listing:

[FTTS ADMIN](#)

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

Government Publication Date: Jan 19, 2007

FTTS Inspection Case Listing:

[FTTS INSP](#)

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

Government Publication Date: Jan 19, 2007

Potentially Responsible Parties List:

[PRP](#)

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

Government Publication Date: Oct 20, 2021

State Coalition for Remediation of Drycleaners Listing:

[SCRD DRYCLEANER](#)

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

Government Publication Date: Nov 08, 2017

Integrated Compliance Information System (ICIS):

[ICIS](#)

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

Government Publication Date: Jun 14, 2021

Drycleaner Facilities:

[FED DRYCLEANERS](#)

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

Government Publication Date: May 5, 2021

Delisted Drycleaner Facilities:

[DELISTED FED DRY](#)

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

Government Publication Date: May 5, 2021

Formerly Used Defense Sites:

[FUDS](#)

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

Government Publication Date: May 26, 2021

Former Military Nike Missile Sites:

[FORMER NIKE](#)

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

Government Publication Date: Dec 2, 1984

PHMSA Pipeline Safety Flagged Incidents:

[PIPELINE INCIDENT](#)

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

Government Publication Date: Jul 7, 2020

Material Licensing Tracking System (MLTS):

[MLTS](#)

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

Government Publication Date: May 11, 2021

Historic Material Licensing Tracking System (MLTS) sites:

[HIST MLTS](#)

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

Government Publication Date: Jan 31, 2010

Mines Master Index File:

[MINES](#)

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

Government Publication Date: Nov 3, 2020

Surface Mining Control and Reclamation Act Sites:

[SMCRA](#)

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

Government Publication Date: Dec 18, 2020

Mineral Resource Data System:

[MRDS](#)

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

Government Publication Date: Mar 15, 2006

Uranium Mill Tailings Radiation Control Act Sites:

[URANIUM](#)

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

Government Publication Date: Mar 4, 2017

Alternative Fueling Stations:

[ALT FUELS](#)

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

Government Publication Date: Jul 12, 2021

Registered Pesticide Establishments:

[SSTS](#)

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

Government Publication Date: Apr 13, 2021

Polychlorinated Biphenyl (PCB) Notifiers:

[PCB](#)

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

Government Publication Date: Nov 19, 2020

State

Nevada Spills Database:

[SPILLS](#)

Listing of spills and releases sites, maintained by the Department of Nevada Division of Environmental Protection (NDEP).

Government Publication Date: May 05, 2016

Historical Spills Database:

[HIST SPL](#)

Listing of spills and releases sites reported to the Department of Nevada Division of Environmental Protection (NDEP). This list only contains records prior to 1998.

Government Publication Date: Dec 31, 1997

Tier II Facility Listing:

[TIER 2](#)

List of Tier II facilities which store hazardous chemicals or materials on-site, made available by the Nevada State Emergency Response Commission (SERC). In January 2009, the SERC discontinued the sharing of facility specific information due to the U.S. Environmental Protection Agency's Office of General Counsel and a Nevada Attorney General's guidance relating to the Emergency Planning and Community Right-to-Know Act (EPCRA).

Government Publication Date: Jun 17, 2008

Permitted Air Facilities:

[AIR PERMIT](#)

List of facilities that have been issued an air quality operating permit by the Nevada Department of Environmental Quality. Only active permits are included in this list.

Government Publication Date: Mar 6, 2019

Hazardous Waste Recycling Facilities:

[RECY HAZ](#)

Nevada Administrative Code (NAC) 444.84555 requires a facility or mobile unit for the recycling of hazardous waste obtain a Written Determination (WD) by the Nevada Department of Environmental Protection (NDEP) Administrator. This list of Written Determinations of hazardous waste recycling facilities is made available by the Nevada Division of Environmental Protection.

Government Publication Date: Mar 31, 2019

Tribal

No Tribal additional environmental record sources available for this State.

County

Washoe County Stationary Source Permits:

[AIR PERMIT WASHOE](#)

This listing of stationary source permits is maintained by the Air Quality Management Division of the Washoe County District Health Department.

Government Publication Date: Dec 2, 2020

Definitions

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

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

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

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

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

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

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

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

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

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

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

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

Appendix D

Tier 1 Vapor Encroachment Screen



VAPOR
SCREENING

Project Property: *Proposed Multifamily Development
Chocolate Drive
Sun Valley NV 89433*

Project No: *21-198*

Report Type: *Vapor Report with Database Details*

Order No: *21102800172v*

Requested by: *Arkose Environmental, Inc.*

Date Completed: *December 4, 2021*

Environmental Risk Information Services

A division of Glacier Media Inc.

1.866.517.5204 | info@erisinfo.com | erisinfo.com

Table of Contents

Table of Contents.....	2
Executive Summary.....	3
Executive Summary: Report Summary.....	4
Map.....	5
Detail Report.....	7
Appendix: Database Descriptions.....	8

Notice: IMPORTANT INFORMATION:

Service: Client has used a service offered by ERIS Information Inc. ("**ERIS**") to generate this report based upon certain search parameters set by Client, or in the case of ERIS's Vapor Encroachment Screening Tool and Checklist, certain search parameters set by ERIS and modified by Client (the "**Service**"). This report contains the results of a search conducted by ERIS of environmental records maintained by third parties. ERIS does not maintain, and has no responsibility for the accuracy or completeness of, such records.

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Executive Summary

This Report was produced through the ERIS Vapor Screening Tool. The ERIS Vapor Screening Tool and this report output are designed to help those in conducting a Vapor Encroachment Screening on a Property Involved in Real Estate Transactions under the ASTM Standard Designation E2600 – 15.

The following table lists the data sources searched and any hits in the Area of Concern (AOC) that have been included in the report. The search distances listed are based on search distances used in the Database Report and the search results are grouped based on the minimum default search distances for Chemicals of Concern (COCs) and Petroleum Hydrocarbon Chemicals of Concern (PHCOCs) as outlined in E2600-15. The default AOC may be expanded or reduced by the environmental professional (adjusted AOC) using experience and professional judgment.

<u>Standard Environmental Sources</u>	Search Distance (miles)*	Project Property	Within 1/10	1/10 plus	Total
Federal NPL site list	1.0	0	0	0	0
Federal Delisted NPL site list	0.5	0	0	0	0
Federal CERCLIS list	1.0	0	0	0	0
Federal CERCLIS NFRAP site list	0.5	0	0	0	0
Federal RCRA CORRACTS facilities list	1.0	0	0	0	0
Federal RCRA non-CORRACTS TSD facilities list	0.5	0	0	0	0
Federal RCRA generators list	0.25	0	0	0	0
Federal institutional control/engineering control registries	0.5	0	0	0	0
Federal ERNS list	PO	0	0	0	0
State and tribal equivalent CERCLIS	1.0	0	0	0	0
State and tribal landfill and/or solid waste disposal site lists	0.5	0	0	0	0
State and tribal leaking storage tank lists	0.5	0	0	0	0
State and Tribal registered storage tank lists	1.0	0	0	0	0
State and tribal voluntary cleanup sites	0.5	0	0	0	0
State and tribal Brownfield sites	0.5	0	0	0	0
Others	0.5	0	0	0	0
<u>Non Standard Environmental Sources</u>					
Federal Spill sites list	0.125	0	0	0	0
Federal Drycleaner Facilities	0.5	0	0	0	0
State Hazardous Waste Facilities	PO	0	0	0	0
State and Tribal Spill sites list	0.125	0	0	0	0
Others	1.0	0	0	0	0
Federal PFAS sites list	0.5	0	0	0	0

* Please refer to the Appendix of this report to view specific databases searched within each category. Search distances within each category may vary by database - the largest search radius per category will be displayed.

Executive Summary: Report Summary

Project Property: Proposed Multifamily Development
Chocolate Drive
Sun Valley NV 89433

PO No: 21-198

Order No: 21102800172v

Coordinates: 39.58746769, -119.79029241

Elevation: 4835.46 ft

Project Property - Results

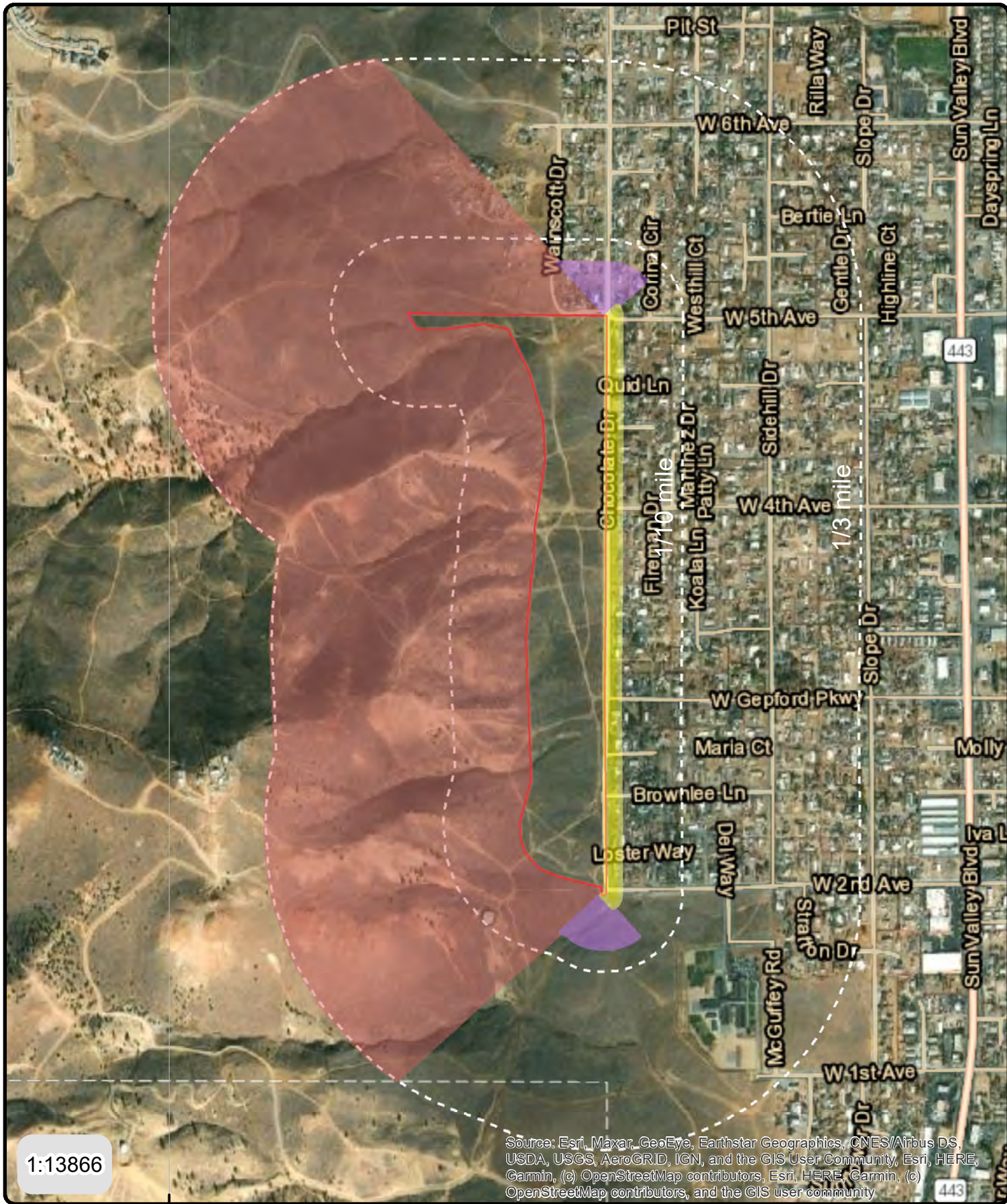
Map Key	DB	Company/Site Name	Address	Direction	Distance (m/ft)	Elev Diff (ft)	Page Number
----------------	-----------	--------------------------	----------------	------------------	------------------------	-----------------------	--------------------

No records for the project property.

Surrounding Properties - Results

Map Key	DB	Company/Site Name	Address	Direction	Distance (m/ft)	Elev Diff (ft)	Page Number
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No records for the surrounding properties.

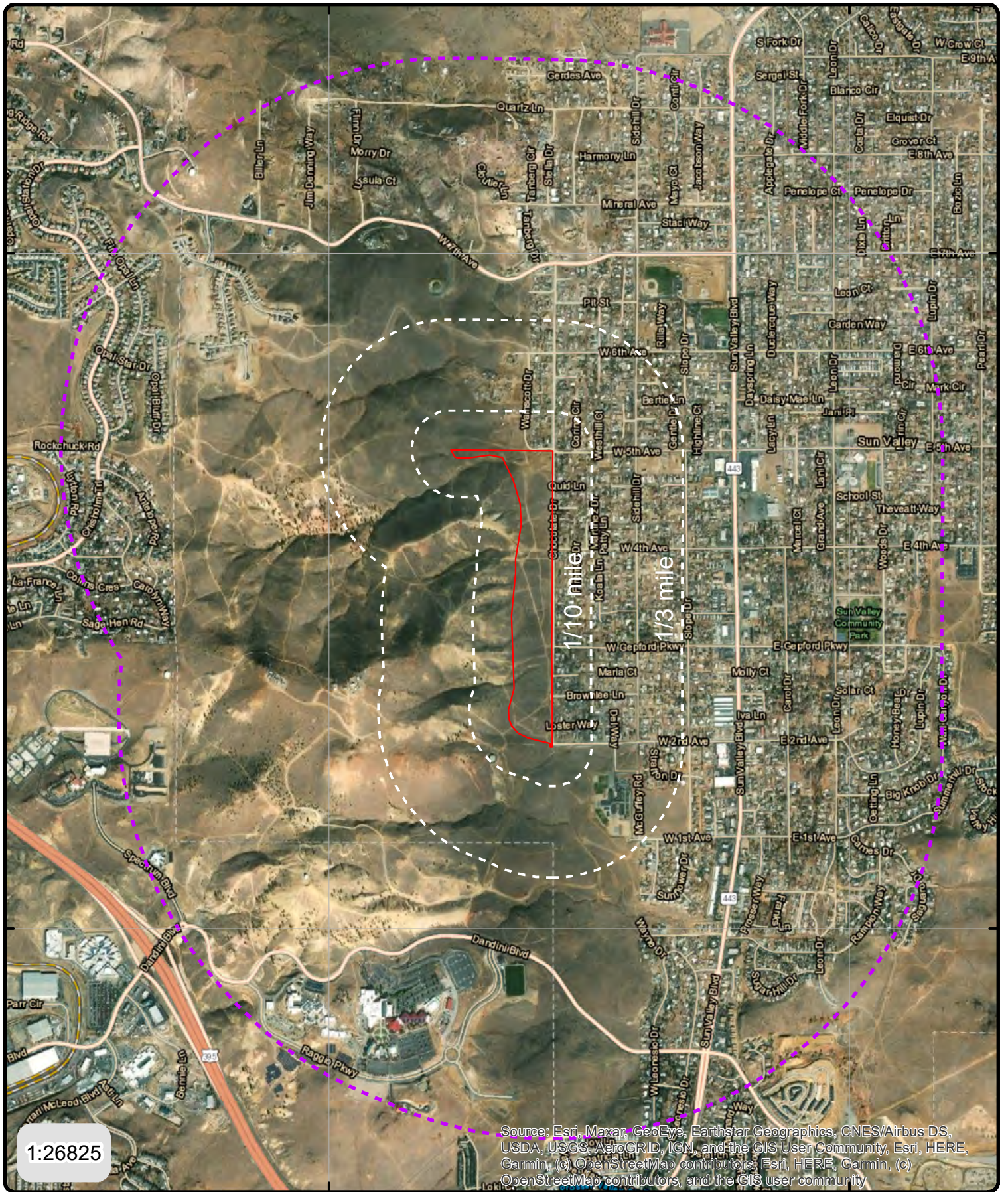


1:13866

Address: Chocolate Drive,Sun Valley,NV

Order No: 21102800172v

- Up-gradient
- Down-gradient
- Cross-gradients



Source: Esri, Maxar, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community, Esri, HERE, Garmin, (c) OpenStreetMap contributors, Esri, HERE, Garmin, (c) OpenStreetMap contributors, and the GIS user community

Address: Chocolate Drive, Sun Valley, NV

Order No: 21102800172v

Detail Report

No details.

Appendix: Database Descriptions

The following are data source listings found in the attached report. For full descriptions, please refer to the associated ERIS Database Report.

<i>DB</i>	<i>Database Name</i>	<i>Publication Date</i>	<i>Source</i>	<i>Classification</i>	<i>ASTM Category</i>
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Appendix E

Interviews and Public Records

**ASTM E-1527 PHASE I ENVIRONMENTAL SITE ASSESSMENT
PRE-SURVEY QUESTIONNAIRE AND DISCLOSURE STATEMENT**

Please complete this questionnaire before the Consultant's site visit. For those questions that are not applicable to the subject please respond with an "N/A". If additional pages for response are necessary please attach them to this form. Clearly mark all references to the appropriate question number(s). This document and your written response to same will be an exhibit in the Phase I ESA report.

1. PROPERTY INFORMATION:

Property Name: <i>Chocolate Group LLC</i>		
Property Address: <i>0 Bedford Way & 0 Chocolate Dr</i>		
City: <i>Washoe County</i>	State: <i>NV</i>	Zip: <i>89433</i>
Assessor's Parcel Number: <i>502-250-09 502-250-10</i>		

2. COMPLETED BY

Signature: <i>Randy S. Kuckenmeister</i>	Date: <i>10-26-21</i>
Printed Name: <i>Randy S Kuckenmeister</i>	Company & Title: <i>Chocolate Group LLC Manager</i>

3. ASTM-REQUIRED INQUIRIES

Property Owner: Name: <i>Chocolate Group LLC</i> Phone: <i>75-885-8847</i> Email: <i>randy@kbcollc.com</i>	
Key Site Manager (Site contact): <i>No one is onsite.</i> Name: <i>Randy Kuckenmeister</i> Phone: <i>75-885-8847</i> Email: <i>randy@kbcollc.com</i>	
If not residential Property, please provide list of tenants, including contact names and phone numbers.	
Can you provide a Current Title Abstract for the Property, including a chain of Title? If so, please send documents along with completed questionnaire to the Consultant	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Do you have knowledge of any environmental liens recorded against the Property, or environmentally related Activity and Use Limitations of the Property?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

** Providing Trustees deed 1/29/20.
Deed to Cottages Group 08/09/10
Deed to Cottages Group 05/15/12*

Do you have any specialized knowledge that would be material in identifying recognized environmental conditions in connection with the Property?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Are you aware of a reduction in the property value due to environmental issues?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Based on your knowledge and experience related to the <i>property</i> are there any <i>obvious</i> indicators that point to the presence or likely presence of releases at the <i>Property</i> ?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No

Please attach explanation of all affirmative answers.

Are you aware of commonly known or <i>reasonably ascertainable</i> information about the <i>property</i> that would help the <i>environmental professional</i> to identify conditions indicative of releases or threatened releases? For example,	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
(a.) Do you know the past uses of the <i>property</i> ?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
(b.) Do you know of specific chemicals that are present or once were present at the <i>property</i> ?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
(c.) Do you know of spills or other chemical releases that have taken place at the <i>property</i> ?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
(d.) Do you know of any environmental cleanups that have taken place at the <i>property</i> ?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No

Please attach explanation of all affirmative answers.

Please state reason for procuring this Phase 1 ESA:

Qualify for Innocent Landowner defense to CERCLA Liability.

Other: (state below) *sale of property.*

4. PLEASE PROVIDE A GENERAL SITE DESCRIPTION BY COMPLETING THE FOLLOWING TABLE:

Legal description/ boundary survey/ plat available (please send to the Consultant if "yes")	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
<i>see deeds</i>		
Total Property Size	<i>48.26 Acres</i>	

Total number of buildings	NONE
Total square footage of buildings	NONE
Date of construction	N/A Vacant Land
Dates of significant renovation	N/A
Waste water discharge	<input type="checkbox"/> Municipal Sanitary Sewer <input type="checkbox"/> On-site septic system <input type="checkbox"/> Other NONE
Potable water source	<input checked="" type="checkbox"/> Community Water Supplier <input type="checkbox"/> On-site well <input type="checkbox"/> Other Available but not at site.
Please describe prior use of property, if known:	Vacant Land

5. PREVIOUS INVESTIGATIONS:

Have any previous environmental investigations been performed at the site? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No NONE I am aware of	
INVESTIGATION TYPE If yes, please describe conclusions, and attach copy of report(s)	
<input type="checkbox"/> Phase 1 ESA	
<input type="checkbox"/> Phase 2 ESA	
<input type="checkbox"/> Tank Tightness Testing	
<input type="checkbox"/> Asbestos Survey/ O&M	
<input type="checkbox"/> Radon	
<input type="checkbox"/> Lead-based Paint	
<input type="checkbox"/> Lead in Water	
<input type="checkbox"/> Operations & Maintenance Plan(s)	
<input type="checkbox"/> Other	

6. ON SITE OPERATIONS

Are you aware of any of the following conditions, either past or present, on the site?		
Condition	Response	If yes, please describe
1. Stored Chemicals	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
2. Underground Storage Tanks	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
3. Aboveground Storage Tanks	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
4. Spills or Releases	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
5. Dump Areas/ Landfills	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<i>CAHS abandoned periodically Garbage is dumped periodically</i>
6. Waste Treatment Systems	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
7. Clarifies/ Separators	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
8. Air stacks/ Vents/ Odors	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
9. Floor Drains/Sumps	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
10. Stained Soil/ Impacted Vegetation	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
11. On-site OWNED Electrical Transformers	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
12. Hydraulic lifts/ Elevators	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
13. Dry Cleaning Operations	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
14. Wetlands/ Flooding	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
15. Oil/ Gas/ Water/ Monitoring Wells	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
16. Environmental Cleanups	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
17. Environmental Permits	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If yes, please describe and ATTACH ALL COPIES of permits. Please attach last three waste manifests.
a) Industrial Discharge	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
b) POTW (NPDES)	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
c) Hazardous Waste Generator	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
d) Air Quality	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	

Are you aware of any of the following conditions, either past or present, on the site?		
Condition	Response	If yes, please describe
e) Flammable Materials	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
f) AST/UST	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
g) Waste Manifest(s)	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
h) Other	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	

7. OFF SITE ENVIRONMENTAL CONCERNS

Are you aware of any of the following conditions, either past or present, Adjacent to the site?		
Condition	Response	If yes, please describe
Gasoline Stations	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Dry Cleaners	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Industrial Uses	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Other	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	

8. VAPOR ENCROACHMENT

If buildings exist or are proposed, do/will they have elevators? Yes No *no bldgs now.*

Type of level below grade (existing or proposed)?
 Full Basement Crawl Space Slab on Grade
 Parking Garage Multi-level *unknown*

*Don't know what
Proposed use
by buyer.*

Ventilation in level below grade? Yes No Unknown

Construction of basement floor (existing or proposed)?
 Concrete Soil Floating Stone Other *unknown*

Sump pumps, floor drains, or trenches (existing or proposed)?
 Yes No Unknown

Radon or methane mitigation system installed? Yes No Unknown

Heating system type (existing or proposed)? (CHECK ALL THAT APPLY)

<input type="checkbox"/> Hot Air Circulation	<input type="checkbox"/> Electric Baseboard	<input type="checkbox"/> Hot Air Radiation
<input type="checkbox"/> Heat Pump	<input type="checkbox"/> Hot Water Radiation	<input type="checkbox"/> Wood Stove
<input type="checkbox"/> Kerosene Heater	<input type="checkbox"/> Steam Radiation	<input type="checkbox"/> Fireplace
<input type="checkbox"/> Coal Furnace	<input type="checkbox"/> Radiant Floor Heat	<input type="checkbox"/> Hot Water Circulation
<input type="checkbox"/> Fuel Oil Furnace	<input type="checkbox"/> Gas Furnace	<input type="checkbox"/> Other _____

unknown

Type of fuel energy (existing or proposed)? (CHECK ALL THAT APPLY)

Natural Gas Electric Propane Fuel Oil Kerosene Wood
 Coal Solar Other _____

unknown

Ventilation system type (existing or proposed)? (CHECK ALL THAT APPLY)

Central Air Conditioning Evaporative Cooling Mechanical Fans
 Bathroom Ventilation Fans Kitchen Range Hood Fan
 Outside Air Intake Window Air Conditioning Other _____

Is building maintained under positive or negative pressure?

Positive Negative No Unknown

unknown

Are basement walls and/or floors sealed or proposed to be sealed with water proof paint or epoxy coatings? Yes No Unknown

Percentage of paved ground surrounding the building(s)? 0 %

Will any existing paved or landscaped areas be altered?

Yes No Unknown

Have any tenants ever complained about odors in the building or experienced health-related problems that may have been associated with the building?

Yes No Unknown

N/A

Are the operations (or proposed operations to be performed) on the property OSHA regulated?

Yes No Unknown

Are there any sensitive receptors (for example, children, elderly, people in poor health, and so forth) that occupy or will occupy the property?

Yes No Unknown

ALTA/NSPS LAND TITLE SURVEY
 PEDCOR INVESTMENTS, LLC
 6400 CHOCOLATE DRIVE
 SUN VALLEY, NEVADA 89433
 FIRST AMERICAN TITLE INSURANCE COMPANY

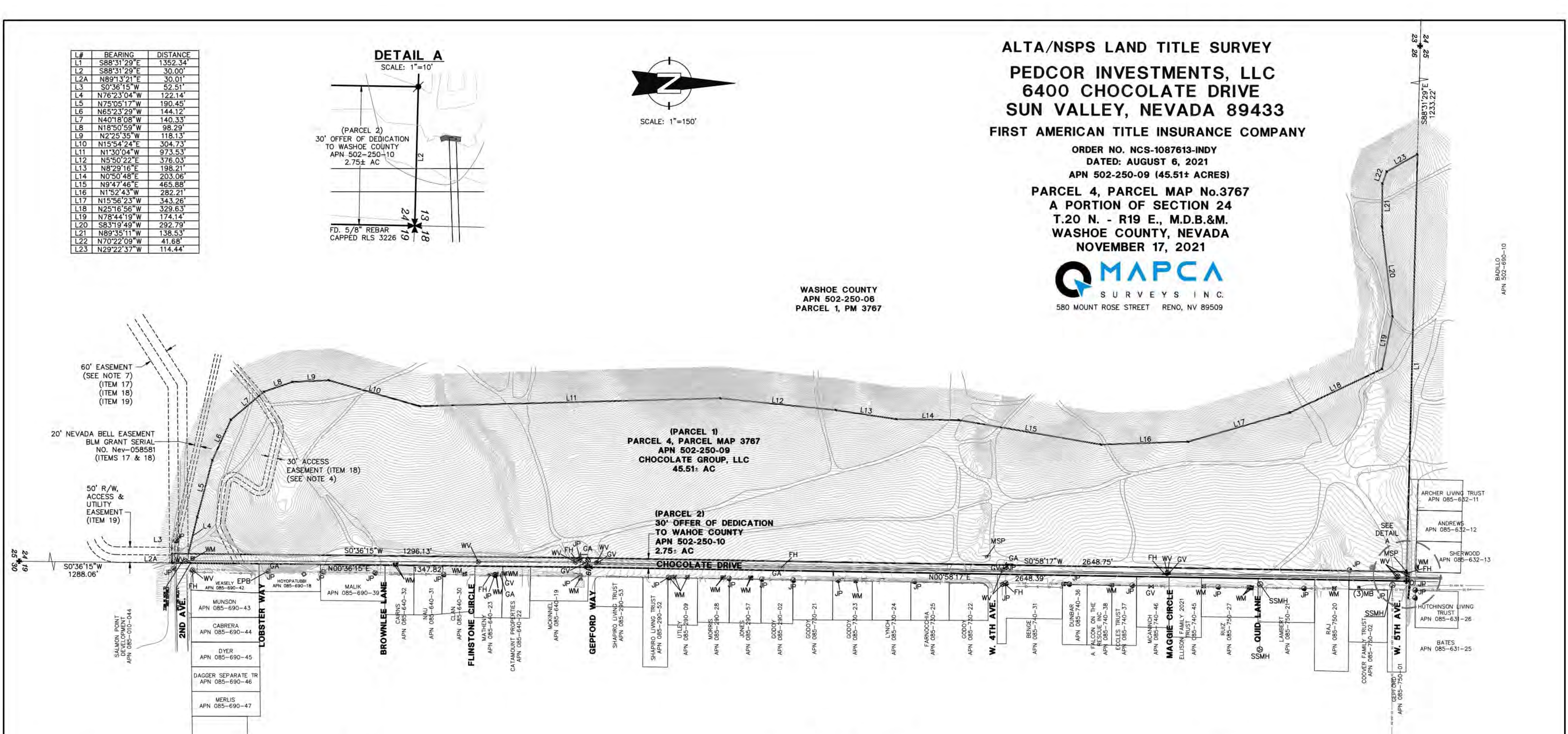
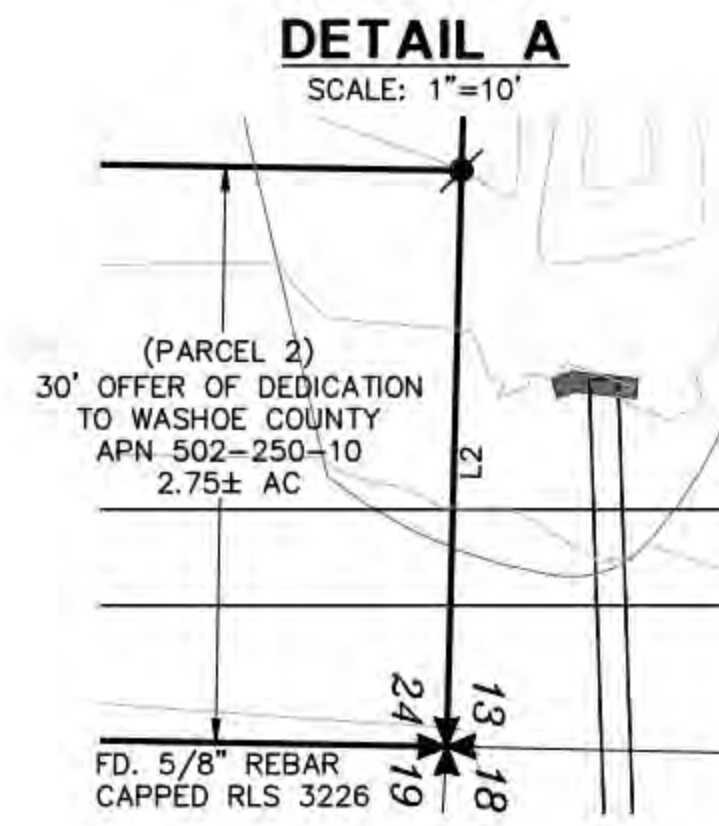
ORDER NO. NCS-1087613-INDY
 DATED: AUGUST 6, 2021
 APN 502-250-09 (45.51± ACRES)

PARCEL 4, PARCEL MAP No.3767
 A PORTION OF SECTION 24
 T.20 N. - R.19 E., M.D.B.&M.
 WASHOE COUNTY, NEVADA
 NOVEMBER 17, 2021

MAPCA
 SURVEYS INC.
 580 MOUNT ROSE STREET RENO, NV 89509

WASHOE COUNTY
 APN 502-250-06
 PARCEL 1, PM 3767

L#	BEARING	DISTANCE
L1	S88°31'29"E	1352.34'
L2	S88°31'29"E	30.00'
L2A	N89°13'21"E	30.01'
L3	S0°36'15"W	52.51'
L4	N76°23'04"W	122.14'
L5	N75°05'17"W	190.45'
L6	N65°23'29"W	144.12'
L7	N40°18'08"W	140.33'
L8	N18°50'59"W	98.29'
L9	N2°25'35"W	118.13'
L10	N15°54'24"E	304.73'
L11	N1°30'04"W	973.53'
L12	N5°50'22"E	376.03'
L13	N8°29'16"E	198.21'
L14	N0°50'48"E	203.06'
L15	N9°47'46"E	465.68'
L16	N1°52'43"W	282.21'
L17	N15°56'23"W	343.26'
L18	N25°16'56"W	329.63'
L19	N78°44'19"W	174.14'
L20	S83°19'49"W	292.79'
L21	N89°35'11"W	138.53'
L22	N70°22'09"W	41.68'
L23	N29°22'37"W	114.44'



ZONING

ZONE: CACZ (SFR LAND - MDS/LDS ZONING)
 BUILDING SIZE: NO MIN./NO MAX.
 FRONT BUILDING SETBACK: 10 FEET.
 SIDE SETBACK: 0-10 FEET.
 REAR SETBACK: 0-10 FEET.
 BUILDING SEPARATION: 20 FEET MINIMUM BETWEEN MAIN BUILDINGS ON THE SAME LOT FOR DEVELOPMENTS OF 50 UNITS OR MORE, AND 10 FEET FOR DEVELOPMENTS OF LESS THAN 50 UNITS.
 BUILDING HEIGHT: CRC OVERLAY STANDARD: 100 FOOT HEIGHT LIMIT.

NOTES

- THIS SURVEY IS BASED ON THE INFORMATION CONTAINED IN THAT PRELIMINARY TITLE REPORT ISSUED BY FIRST AMERICAN TITLE INSURANCE COMPANY, ORDER NO. NCS-1083510-LA2, DATED JULY 23, 2021.
- NO PROPOSED CHANGES IN STREET RIGHT-OF-WAY LINES WAS REPORTED AT THE TIME OF THIS SURVEY.
- NO WETLAND DELINEATION MARKERS WERE OBSERVED ON SITE AT THE TIME OF THIS SURVEY.
- THE 30' ACCESS EASEMENT THROUGH PARCEL 4 FOR THE BENEFIT OF THE SUN VALLEY GENERAL IMPROVEMENT DISTRICT IS RELOCATABLE AT THE EXPENSE OF THE OWNER OF PARCEL 4 PER PARCEL MAP #3767. (ITEM NO. 18)
- A UTILITY EASEMENT IS ALSO HEREBY GRANTED WITHIN EACH PARCEL FOR THE EXCLUSIVE PURPOSE OF INSTALLING AND MAINTAINING UTILITY SERVICE FACILITIES TO THAT PARCEL AND THE RIGHT TO EXIT THAT PARCEL WITH SAID UTILITY FACILITIES FOR THE PURPOSE OF SERVING ADJACENT PARCELS AT LOCATIONS MUTUALLY AGREE UPON BY THE OWNER OF RECORD AT THAT TIME AND THE UTILITY COMPANY PER PARCEL MAP #3767 (ITEM NO. 18)
- THE NATURAL DRAINAGE WILL NOT BE IMPEDED DURING THE DEVELOPMENT OR IMPROVEMENT OF THESE PARCELS PER PARCEL MAP #3767 (ITEM NO. 18)
- 60' SUN VALLEY GID ACCESS, WATER PIPELINE AND RESERVOIR SITE EASEMENT GRANTED BY BLM SERIAL NO. N-284 (ITEMS 17, 18 & 19); A 60' SIERRA PACIFIC POWER CO. ELECTRIC TRANSMISSION EASEMENT GRANTED BY BLM SERIAL NO. N-1109 (ITEMS 17 & 18); AND A 60' COMMUNICATIONS LINE EASEMENT GRANTED BY BLM SERIAL NO. N-1228. (ITEMS NO. 17 & 18).

BASIS OF BEARINGS

NEVADA STATE PLANE COORDINATE SYSTEM WEST ZONE, NAD83 (94), DISTANCES SHOWN HEREON ARE GROUND DISTANCES, CALCULATED USING A GRID TO GROUND COMBINED SCALE FACTOR OF 1.000197939

REFERENCES

PARCEL MAP #3767 FOR AMERICAN LAND CONSERVATORY, ACCORDING TO THE MAP THEREOF, FILED IN THE OFFICE OF THE COUNTY RECORDER OF WASHOE COUNTY, STATE OF NEVADA, ON APRIL 28, 2001, AS FILE NO. 2546369.

FLOOD ZONE

THIS PROPERTY IS ENTIRELY WITHIN FLOOD ZONE 'X', AREA OF MINIMAL FLOOD HAZARD; AS SHOWN ON THE FLOOD INSURANCE RATE MAP (FIRM) NO. 32031C3033G, EFFECTIVE MARCH 16, 2009.

VERTICAL DATUM

NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88) BASED ON CITY OF SPARKS BENCHMARK NO. 3036, A 2" BRASS DISK MARKING THE SOUTHEAST CORNER OF SECTION 24, T.20N.-R.19E. M.D.B.&M. ELEVATION = 4677.80

LEGEND

- NOTHING FOUND/SET
- FOUND 5/8" REBAR CAPPED PLS 6495 UNLESS INDICATED OTHERWISE
- EPB ELECTRICAL PULL BOX
- JP JOINT/POWER POLE
- GA GUY ANCHOR
- MSP METAL SIGN POST
- GV GAS VALVE/TEST STATION
- GM GAS METER
- MB MAILBOX
- SSMH SANITARY SEWER MANHOLE
- DI STORM DRAIN INLET
- 7 DRAIN CULVERT
- WM WATER METER
- WV WATER VALVE
- FH FIRE HYDRANT
- TREE/CONIFEROUS
- 13 18 CORNER OF SECTION
- 24 19 QUARTER CORNER
- 24 19

WASHOE COUNTY PUBLIC RECORDS REQUEST FORM



All requests for public records will be responded to no later than the fifth business day after the request is received, in accordance with the provisions of Chapter 239 of Nevada Revised Statutes and Washoe County Resolution Adopting Public Records Policies and Procedures.

This section should be completed by the Requester (optional)						
Date of Request:	October 28, 2021					
Name of Requester (Optional):	Lui Barkkume					
Requestor Address:	Arkose Environmental, Inc. P.O. BOX 560975, The Colony, TX 75056					
Requestor Telephone:	(214) 682-4582					
Requestor Email:	Luib@arkoseinc.com					
Documents Requested (Please be as specific as possible and include address, names and dates of the documents, if you know them. This will help us respond to your request as fast as possible.)						
1.	**Please see attached documents**				6.	
2.	0 Chocolate Drive				7.	
3.	0 W Gepford Parkway				8.	
4.					9.	
5.					10.	
Date Documents Needed By:	11/28/21	AM <input type="radio"/>	PM <input checked="" type="radio"/>	Signature: (Optional)		
Copy Needed:	Yes: <input type="radio"/>	No: <input type="radio"/>	Certified Copy:	Yes: <input type="radio"/>	No: <input checked="" type="radio"/>	
				Electronic Copy:	Yes: <input checked="" type="radio"/>	No: <input type="radio"/>

This section to be completed by the Department			
Department Receiving the Request: Washoe County Health District			
Actual Charge (if extraordinary use):			
Date Request Filled:		Employee Initials:	

Determination of Access if Document is not a known public record			
District Attorney Referral		Access Granted (circle one)	
Date Sent:	Date Returned:	Yes	No
Reason for Denial (addendum if necessary):			

A copy of the form should be given to requester and Copy retained in department records.



October 28, 2021

Dear Washoe County Official,

Arkose Environmental Inc. is conducting a U.S. Department of Housing and Urban Development (HUD) Multifamily Accelerated Processing (MAP) Guide compliant Environmental Site Assessment for a proposed multifamily development on approximately 48 acres of undeveloped/vacant land located west of Chocolate Drive in Sun Valley, Washoe County, Nevada. The physical addresses currently assigned to the subject property are 0 Chocolate Drive and 0 W. Gepford Parkway. We respectfully request any information regarding building permits, tank permits, certificates of occupancy, code enforcement, citizen complaints and/or investigations on the use, handling, release, or discharge of solid or liquid wastes, underground storage tanks, above ground storage tanks, hazardous materials, or other circumstances of environmental concern recorded at the project location. A figure with the project site boundary outlined is attached with this request for your reference.

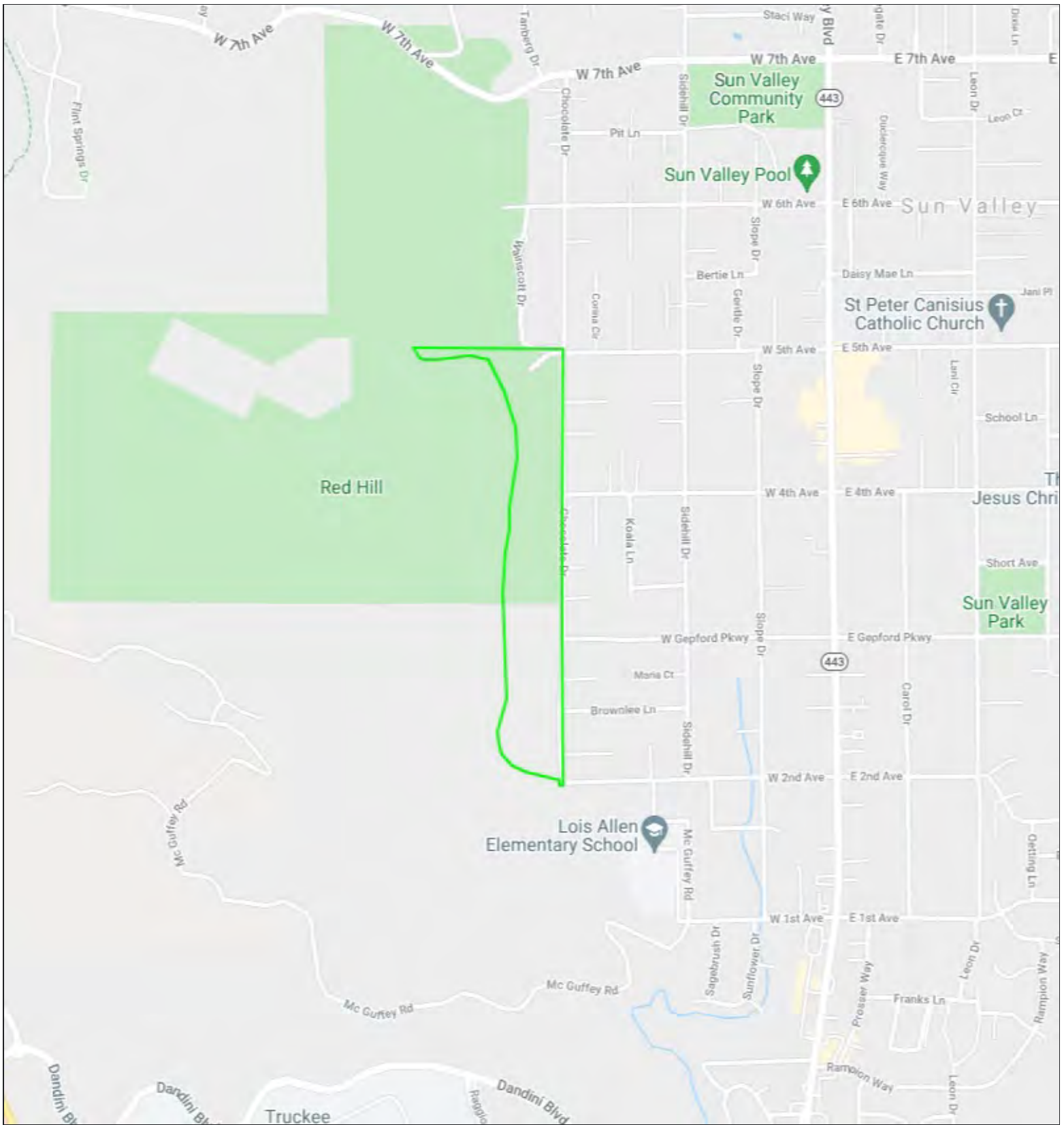
In addition to on-site permit records and circumstances of environmental concern recorded at the project location, HUD requires that we request of your department(s) any tank permit applications and/or records for potential future storage tank use or installation as well as existing and former aboveground storage tanks and underground storage tanks within the immediate vicinity or a 1-mile radius of the subject property.

Please contact me at (214) 682-4582 or Luib@arkoseinc.com during business hours if you have any questions. Your assistance on this matter is greatly appreciated.

Thank you!

Sincerely,

Lui Barkkume, PG, CESCO
Arkose Environmental, Inc.
(214) 682-4582
Luib@arkoseinc.com
www.arkoseinc.com



 Project Boundary

Scale: 1:18000



Chocolate Drive
Sun Valley, NV

Date: 11/04/21
Project No. 21-198

Figure No:
1

From: Health - EHS Front Desk

Sent: Thursday, October 28, 2021 11:44 AM

To: Lui Barkkume

Subject: Automatic reply: Public Records Request for ~48 acres west of Chocolate Dr in Sun Valley, NV

Thank you for contacting the Washoe County Health District, Environmental Health Services. We have received your correspondence and will begin processing the request.

Requests are processed in the order received. Attempts are made to fill requests quickly, but due to high volume there may be delays in response time. Please do not send duplicate requests as this impedes timely responses.

Per Nevada Revised Statutes (NRS) Chapter 239, the Washoe County Health District has five business days to fill public record requests.

Regards,

Environmental Health Services | Washoe County Health District

HealthEHS@washoecounty.gov | (775) 328-2434 | 1001 E. Ninth St, Bldg B, Reno, NV 89512

From: Mayberry, Adam
Sent: Thursday, November 4, 2021 12:15 PM
To: luib@arkoseinc.com
Subject: RE: Public Records Request for ~48 acres west of Chocolate Dr in Sun Valley, NV

We hold no records on any of the parcels requested.

Adam R. Mayberry
Communications Manager/PIO | Truckee Meadows Fire & Rescue
amayberry@tmfpd.us | Office: 775.326.6073 | Cell: 775.233.3991 (24/7)
3663 Barron Way, Reno, NV 89511



From: Lui Barkkume <>
Sent: Thursday, October 28, 2021 9:41 AM
To: Health - EHS Front Desk <HealthEHS@washoecounty.gov>; Francis, Sandy <sfrancis@tmfpd.us>; Code-Enforcement <Code-Enforcement@washoecounty.gov>
Cc: info@arkoseinc.com
Subject: Public Records Request for ~48 acres west of Chocolate Dr in Sun Valley, NV

[NOTICE: This message originated outside of Washoe County -- DO NOT CLICK on links or open attachments unless you are sure the content is safe.]

Dear Washoe County Officials,

Arkose Environmental Inc. is conducting a U.S. Department of Housing and Urban Development (HUD) Multifamily Accelerated Processing (MAP) Guide compliant Environmental Site Assessment for a proposed multifamily development on approximately 48 acres of undeveloped/vacant land located west of Chocolate Drive in Sun Valley, Washoe County, Nevada. The physical addresses currently assigned to the subject property are 0 Chocolate Drive and 0 W. Gepford Parkway.

Attached is a Washoe Public Records Request Form with attached pages including a project details, a list of documents requested, and a figure with the project site boundary outlined for your reference.

Please contact me at (214) 682-4582 or Luib@arkoseinc.com during business hours if you have any questions. Your assistance on this matter is greatly appreciated.

Thank you!

Sincerely,

Lui Barkkume
Arkose Environmental, Inc.
(214) 682-4582
Luib@arkoseinc.com
www.arkoseinc.com

From: Code-Enforcement
Sent: Monday, November 1, 2021 4:21 PM
To: Lui Barkkume
Cc: info@arkoseinc.com; Code-Enforcement
Subject: RE: Public Records Request for ~48 acres west of Chocolate Dr in Sun Valley, NV

Hello,
Attached, please find your Public Records Request FILLED for the Washoe County Code Enforcement and Washoe County Building Department's portion of your request form. For all other documents, please remain in contact with the Washoe County Health District.

There are no building permits for these properties on file.

Attached, please find the following documents for Washoe County Code Enforcement:

1. Public Records Request Form and Original Letter
2. Case#C050149_APN 502-250-09
3. Case#C050536_APN 502-250-09
4. Case#C060292_APN 502-250-09
5. Case#C070116_APN 502-250-09
6. Case#C050454_APN 502-250-10
7. Case#C070501_APN 502-250-10
8. Case#C090178_APN 502-250-10
9. Case# WCMP21-00245 and WVIO-PLA21-0043 (complaint case and corresponding violation case)
10. Case# WCMP21-00711 (complaint case)

If you have any additional questions or have issues downloading the attached PDF, please let me know.

-Johnna



Johnna Chism, Office Support Specialist
Code Enforcement, Planning & Building Division | Community Services Department
code-enforcement@washoecounty.gov | Office: 775.328.6106 | Fax: 775.328.6133
Visit us first online: www.washoecounty.gov/csd
1001 E. Ninth St., Bldg A, Reno, NV 89512



Have some kudos to share about a Community Services Department employee or experience?
Email: CSDSuperstars@washoecounty.gov

From: Lui Barkkume <luib@arkoseinc.com>
Sent: Monday, November 1, 2021 11:31 AM
To: Code-Enforcement <Code-Enforcement@washoecounty.gov>
Cc: Code-Enforcement <Code-Enforcement@washoecounty.gov>; info@arkoseinc.com
Subject: RE: Public Records Request for ~48 acres west of Chocolate Dr in Sun Valley, NV

[NOTICE: This message originated outside of Washoe County -- DO NOT CLICK on links or open attachments unless you are sure the content is safe.]

Correct.

Both Properties owned by "Chocolate Group LLC"

APN: 502-250-09 / 0 W. Gepford Pkwy

APN: 502-250-10 / 0 Chocolate Dr

Thank you.

Sincerely,

Lui

From: [Code-Enforcement](#)

Sent: Monday, November 1, 2021 1:12 PM

To: [Lui Barkkume](#)

Cc: [Code-Enforcement](#)

Subject: RE: Public Records Request for ~48 acres west of Chocolate Dr in Sun Valley, NV

Hello,

Washoe County Code Enforcement received your attached public records request. I saw the attached map (page 3 of your PDF), but still require a parcel number for the properties before moving forward with filling your request. There are several "0 Chocolate Dr" and "0 W Gepford Pkwy" addresses in this area and I want to be sure we are filling your request properly.

Please confirm the parcel numbers below:

Both Properties owned by "Chocolate Group LLC"

APN: 502-250-09 / 0 W. Gepford Pkwy

APN: 502-250-10 / 0 Chocolate Dr

-Johnna



Johnna Chism, Office Support Specialist

Code Enforcement, Planning & Building Division | Community Services Department

code-enforcement@washoecounty.gov | Office: 775.328.6106 | Fax: 775.328.6133

Visit us first online: www.washoecounty.gov/csd

1001 E. Ninth St., Bldg A, Reno, NV 89512



Have some kudos to share about a Community Services Department employee or experience?

Email: CSDSuperstars@washoecounty.gov

From: Lui Barkkume <luib@arkoseinc.com>

Sent: Thursday, October 28, 2021 9:41 AM

To: Health - EHS Front Desk <HealthEHS@washoecounty.gov>; Francis, Sandy <sfrancis@tmfpd.us>;

Code-Enforcement <Code-Enforcement@washoecounty.gov>

Cc: info@arkoseinc.com

Subject: Public Records Request for ~48 acres west of Chocolate Dr in Sun Valley, NV

[NOTICE: This message originated outside of Washoe County -- DO NOT CLICK on links or open attachments unless you are sure the content is safe.]

Dear Washoe County Officials,

Arkose Environmental Inc. is conducting a U.S. Department of Housing and Urban Development (HUD) Multifamily Accelerated Processing (MAP) Guide compliant Environmental Site Assessment for a proposed multifamily development on approximately 48 acres of undeveloped/vacant land located west of Chocolate Drive in Sun Valley, Washoe County, Nevada. The physical addresses currently assigned to the subject property are 0 Chocolate Drive and 0 W. Gepford Parkway.

Attached is a Washoe Public Records Request Form with attached pages including a project details, a list of documents requested, and a figure with the project site boundary outlined for your reference.

Please contact me at [\(214\) 682-4582](tel:2146824582) or Luib@arkoseinc.com during business hours if you have any questions. Your assistance on this matter is greatly appreciated.

Thank you!

Sincerely,

Lui Barkkume
Arkose Environmental, Inc.
[\(214\) 682-4582](tel:2146824582)
Luib@arkoseinc.com
www.arkoseinc.com

WASHOE COUNTY PUBLIC RECORDS REQUEST FORM



All requests for public records will be responded to no later than the fifth business day after the request is received, in accordance with the provisions of Chapter 239 of Nevada Revised Statutes and Washoe County Resolution Adopting Public Records Policies and Procedures.

This section should be completed by the Requester (optional)			
Date of Request:	October 28, 2021		
Name of Requester (Optional):	Lui Barkkume		
Requestor Address:	Arkose Environmental, Inc. P.O. BOX 560975, The Colony, TX 75056		
Requestor Telephone:	(214) 682-4582		
Requestor Email:	Luib@arkoseinc.com		
Documents Requested (Please be as specific as possible and include address, names and dates of the documents, if you know them. This will help us respond to your request as fast as possible.)			
1.	**Please see attached documents**	6.	
2.	0 Chocolate Drive / APN: 502-250-10	7.	
3.	0 W Gepford Parkway / APN: 502-250-09	8.	
4.		9.	
5.		10.	
Date Documents Needed By:	11/28/21 AM <input type="radio"/> PM <input checked="" type="radio"/>	Signature: (Optional)	<i>Lui Barkkume</i>
Copy Needed:	Yes: <input type="radio"/> No: <input type="radio"/>	Certified Copy:	Yes: <input type="radio"/> No: <input checked="" type="radio"/>
		Electronic Copy:	Yes: <input checked="" type="radio"/> No: <input type="radio"/>

This section to be completed by the Department			
Department Receiving the Request:	Washoe Health District	WASHOE COUNTY CODE ENF. FOR THE PLANNING & BUILDING DIV.	
Actual Charge (if extraordinary use):	\$0		
Date Request Filled:	11/01/2021	Employee Initials:	JC

Determination of Access if Document is not a known public record			
Date Sent:	District Attorney Referral	Date Returned:	Access Granted (circle one) Yes <input checked="" type="radio"/> No <input checked="" type="radio"/>
Reason for Denial (addendum if necessary):			
NOTES: ① CODE ENF. DOCUMENTS FOR BOTH PARCELS EMAILED			
② NO BUILDING PERMITS ON FILE			

A copy of the form should be given to requester and Copy retained in department records.



October 28, 2021

Dear Washoe County Official,

Arkose Environmental Inc. is conducting a U.S. Department of Housing and Urban Development (HUD) Multifamily Accelerated Processing (MAP) Guide compliant Environmental Site Assessment for a proposed multifamily development on approximately 48 acres of undeveloped/vacant land located west of Chocolate Drive in Sun Valley, Washoe County, Nevada. The physical addresses currently assigned to the subject property are 0 Chocolate Drive and 0 W. Gepford Parkway. We respectfully request any information regarding building/permits, tank permits, certificates of occupancy, code enforcement, citizen complaints and/or investigations on the use, handling, release, or discharge of solid or liquid wastes, underground storage tanks, above ground storage tanks, hazardous materials, or other circumstances of environmental concern recorded at the project location. A figure with the project site boundary outlined is attached with this request for your reference.

In addition to on-site permit records and circumstances of environmental concern recorded at the project location, HUD requires that we request of your department(s) any tank permit applications and/or records for potential future storage tank use or installation as well as existing and former aboveground storage tanks and underground storage tanks within the immediate vicinity or a 1-mile radius of the subject property.

Please contact me at (214) 682-4582 or Luib@arkoseinc.com during business hours if you have any questions. Your assistance on this matter is greatly appreciated.

Thank you!

Sincerely,


Lui Barkkume, PG, CESCO
Arkose Environmental, Inc.
(214) 682-4582
Luib@arkoseinc.com
www.arkoseinc.com

11/01/2021
CODE ENFORCEMENT ONLY ATTACHED.
PLEASE CONTACT THE WASHOE COUNTY HEALTH DISTRICT FOR ADDITIONAL RECORDS AND INFORMATION.



 Project Boundary

Scale: 1:18000

	<p>Chocolate Drive Sun Valley, NV</p>	<p>Date: 11/04/21 Project No. 21-198</p>	<p>Figure No: 1</p>
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WASHOE COUNTY

COMMUNITY SERVICES DEPARTMENT

Planning and Building Division

Code Enforcement

1001 EAST 9TH STREET
 RENO, NEVADA 89512
 PHONE (775) 328-6106
 FAX (775) 328-6133

Date Printed: 11/01/2021
 Case#: C050149
 Case Status: Complied
 File Date: 04/15/2005
 APN: 502-250-09
 Address: 0 W. GEPFORD PKWY

C050149 [C](#)
 BUS LIC/ZONE COMPLAINTS
 Inops 04 15 05 Officer report of ...

STATUS
 > Complied
 10/28/2016 by KMULLIN

LOCATION
 > GEPFORD PKWY
 WASHOE COUNTY, NV

CONTACT
 > None Provided

WORKFLOW
 > 1 total Task
 0 completed 0 active

Menu Help

File Date: 04/15/2005
 Case Status: Complied

Description of Work: Inops 04 15 05 Officer report of abandoned vehicles on undeveloped land off of Chocolate 30 day NOV sent KM 04 21 05 Mr Bennitt Representative for Landmark Homes called out what he need to do to take care of the violation I informed him that the vehciles needed to be removed off the property We are going to meet next week so I can give him letters sign so a tow company can remove them HS 05 16 05 Officer has been in contact with the property manager Brian Bennett He has had the vehicles removed The mobile Home fra the only thing left Brain said he is in contact a couple of welders that will come and take it He is just waiting for property owners ok I am giving him a 2 week extension HS 08 30 05 Bennett called and informed me the frame to the mobile home is gone I did a site inspection to verify and it is gone This case is closed HS

Case Detail: Detail
 Total Fee Invoiced: \$0.00
 Total Fee Assessed: \$0.00
 Case Type: Violation
 Address: 0 GEPFORD PKWY, WASHOE COUNTY, NV
 Owner Name: BAWDEN J F
 Owner Address: PO BOX 21670, CARSON CITY, NV 89721
 Parent Record: BUS LIC/ZONE COMPLAINTS
 Parcel No: 502-250-09

Contact Info:	Name	Organization Name	Contact Type	Contact Primary Address	Status
	STONE HAROLD		COMPLAINL	Mailing	Active
	BAWDEN J F		VIOLATOR	Mailing, PO BOX 21670...	Active

Description of Work Expanded:

Inops

04 15 05 Officer report of abandoned vehicles on undeveloped land off of Chocolate 30 day NOV sent KM

04 21 05 Mr Bennitt Representative for Landmark Homes called to find out what he need to do to take care of the violation I informed him that the vehciles needed to be removed off the property We are going to meet next week so I can give him letters to sign so a tow company can remove them HS

05 16 05 Officer has been in contact with the property manager Brian Bennett He has had the vehicles removed The mobile Home frame is the only thing left Brain said he is in contact a couple of welders that will come and take it He is just waiting for property owners ok I am giving him a 2 week extension HS

08 30 05 Brian Bennett called and informed me the frame to the mobile home is gone I did a site inspection to verify and it is gone This case is closed HS



QUALITY PUBLIC SERVICE



INTEGRITY



EFFECTIVE COMMUNICATION



WASHOE COUNTY

COMMUNITY SERVICES DEPARTMENT

Planning and Building Division

Code Enforcement

1001 EAST 9TH STREET
 RENO, NEVADA 89512
 PHONE (775) 328-6106
 FAX (775) 328-6133

Date Printed: 11/01/2021
 Case#: C050536
 Case Status: Complied
 File Date: 12/14/2005
 APN: 502-250-09
 Address: 0 W. GEPFORD PKWY

C050536 [Refresh](#)

BUS LIC/ZONE COMPLAINTS
 Inops 12 14 05 Received anonym...

STATUS > Complied
 10/28/2016 by KMULLIN

LOCATION > GEPFORD PKWY
 WASHOE COUNTY, NV

CONTACT > None Provided

WORKFLOW > 1 total Task
 ● 0 completed

Menu Help

File Date: 12/14/2005
 Case Status: Complied

Description of Work: Inops 12 14 05 Received anonymous complaint of inops at corner of Gepford Chocolate Officer Stone confirmed inop 93 Dodge present at this parcel Sent 30 day inspected the property and found that the inoperable vehicle is gone This property is in full compliance and case is closed HS

Case Detail: Detail
 Total Fee Invoiced: \$0.00
 Total Fee Assessed: \$0.00

Case Type: Violation
 Address: 0 GEPFORD PKWY, WASHOE COUNTY, NV
 Owner Name: BAWDEN J F
 Owner Address: PO BOX 21670, CARSON CITY, NV 89721
 Parent Record: BUS LIC/ZONE COMPLAINTS
 Parcel No: 502-250-09

Contact Info:	Name	Organization Name	Contact Type	Contact Primary Address	Status
	ANONYMOUS		COMPLAIN	Mailing	Active
	CHOCOLATE LLC		VIOLATOR	Mailing, 985 DAMONTE P...	Active

Custom Fields: ENF-VIO-A Screen

Description of Work Expanded:

Inops

12 14 05 Received anonymous complaint of inops at corner of Gepford Chocolate Officer Stone confirmed inop 93 Dodge present at this parcel Sent 30 day NOV KM

06 08 06 I re inspected the property and found that the inoperable vehicle is gone This property is in full compliance and case is closed HS





WASHOE COUNTY

COMMUNITY SERVICES DEPARTMENT

Planning and Building Division

Code Enforcement

1001 EAST 9TH STREET
 RENO, NEVADA 89512
 PHONE (775) 328-6106
 FAX (775) 328-6133

Date Printed: 11/01/2021
 Case# C060292
 Case Status: Complied
 File Date: 06/08/2006
 APN: 502-250-09
 Address: 0 W. GEPFORD PKWY

C060292 [BUS LIC/ZONE COMPLAINTS](#)
 inop vehicle 6 8 06 Complaint of ...

STATUS > Complied
 10/28/2016 by RSCHEBLER

LOCATION > None Provided

CONTACT > None Provided

WORKFLOW
 > 1 total Task
 0 completed 0 active

Menu Help

File Date: 06/08/2006
 Case Status: Complied
 Description of Work: inop vehicle 6 8 06 Complaint of abandoned vehicle off Chocolate Drive between 5th Quid Inspection confirms brown chrysler new yorker RS 07 08 06 the vehicle has been removed
 Case closed HS
 Case Detail: Detail
 Total Fee Invoiced: \$0.00
 Total Fee Assessed: \$0.00
 Case Type: Violation
 Address:
 Owner Name: CHOCOLATE LLC
 Owner Address: 985 DAMONTE PKWY #300, RENO, NV 89521
 Parent Record: BUS LIC/ZONE COMPLAINTS
 Parcel No: 502-250-09

Contact Info:	Name	Organization Name	Contact Type	Contact Primary Address	Status
	ANONYMOUS		COMPLAINANT	Mailing	Active
	CHOCOLATE LLC		VIOLATOR	Mailing, 985 DAMONTE P...	Active

Custom Fields: ENF-VIO-A Screen

Description of Work Expanded:

inop vehicle
 6 8 06 Complaint of abandoned vehicle off Chocolate Drive between 5th Quid Inspection
 confirms brown chrysler new yorker RS
 07 08 06 the vehicle has been removed Case closed HS





WASHOE COUNTY

COMMUNITY SERVICES DEPARTMENT

Planning and Building Division

Code Enforcement

1001 EAST 9TH STREET
 RENO, NEVADA 89512
 PHONE (775) 328-6106
 FAX (775) 328-6133

Date Printed: 11/01/2021
 Case#: C070116
 Case Status: Complied
 File Date: 03/16/2007
 APN: 502-250-09
 Address: 0 W. GEPFORD PKWY

C070116

BUS LIC/ZONE COMPLAINTS
 abandoned vehicles 3 15 07 Com...

STATUS > Complied
 10/28/2016 by RSCHEBLER

LOCATION > None Provided

CONTACT > None Provided

WORKFLOW > 1 total Task
 0 completed 0 active

Menu Help

Summary
 Record
 Activities (0)
 Activity Summary (1)
 Address (0)
 Custom Details
 HISTORICAL DATES
 INSPECTOR INFO
 Custom Lists (1)
 Calendar
 Comments (0)

File Date: 03/16/2007
 Case Status: Complied

Description of Work: abandoned vehicles 3 15 07 Complaint received of a vehicle that it wrecked upside down and has been pushed into the area of the drainage ditch Additionally there are 2 other vehic in the same area Discussed complaint with Officers Barretta and Bracy and they had seen the vehicles earlier in the day Case assigned to CEO Bracy RS 03 06 07 Observed three inoperable vehicles One over turned and two other vehicles were just dumped on the dirt road No photos were taken BB 03 27 07 I received a complaint of inoperable vehicles on an adjoining property and discovered that two of the three vehicles were not a part of case C070116 There was only one inoperable vehicle associated with case C070116 BB 04 19 2007 Reinspected this property and the inoperable vehicle had been removed from the property This case is closed BB

Case Detail: Detail
 Total Fee Invoiced: \$0.00
 Total Fee Assessed: \$0.00
 Case Type: Violation
 Address:
 Owner Name: CHOCOLATE LLC
 Owner Address: 985 DAMONTE PKWY #300, RENO, NV 89521
 Parent Record: BUS LIC/ZONE COMPLAINTS
 Parcel No: 502-250-09

Contact Info:	Name	Organization Name	Contact Type	Contact Primary Address	Status
	ANONYMOUS		COMPLAINL	Mailing	Active

Description of Work Expanded:

abandoned vehicles

3 15 07 Complaint received of a vehicle that it wrecked upside down and has been pushed into the area of the drainage ditch Additionally there are 2 other vehicles in the same area Discussed complaint with Officers Barretta and Bracy and they had seen the vehicles earlier in the day Case assigned to CEO Bracy RS

03 06 07 Observed three inoperable vehicles One over turned and two other vehicles were just dumped on the dirt road No photos were taken BB

03 27 07 I received a complaint of inoperable vehicles on an adjoining property and discovered that two of the three vehicles were not a part of case C070116 There was only one inoperable vehicle associated with case C070116 BB

04 19 2007 Reinspected this property and the inoperable vehicle had been removed from the property This case is closed BB



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WASHOE COUNTY

COMMUNITY SERVICES DEPARTMENT

Planning and Building Division

Code Enforcement

1001 EAST 9TH STREET
 RENO, NEVADA 89512
 PHONE (775) 328-6106
 FAX (775) 328-6133

Date Printed: 11/01/2021
 Case# C050454
 Case Status: Complied
 File Date: 10/17/2005
 APN: 502-250-10
 Address: 0 CHOCOLATE DR.

C050454 [🔗](#) **STATUS** > Complied 10/28/2016 by KMULLIN **LOCATION** > CHOCOLATE DR WASHOE COUNTY, NV **CONTACT** > None Provided **WORKFLOW** > 1 total Task 0 completed 0 active

BUS LIC/ZONE COMPLAINTS
 Inops 10 17 05 Inops apparently ...

Menu Help

Summary
 Record
 Activities (0)
 Activity Summary (1)
 Address (1)
 Custom Details
 HISTORICAL DATES
 INSPECTOR INFO
 Custom Lists (1)
 Calendar
 Comments (0)
 Conditions (0)

File Date: 10/17/2005
 Case Status: Complied
 Description of Work: Inops 10 17 05 Inops apparently abandoned in easement on Chocolate south of 5th Ave on the west side of the street Complainant indicates the 2 inops are a 1980s primer coated vehicle and a beige vehicle w o plates KM 10 18 05 sheriffs Dept has tag it to be towed HS 10 24 05 Vehicle has been towed now there is a Tan Saturn send 1st notice HS

Case Detail: Detail
 Total Fee Invoiced: \$0.00
 Total Fee Assessed: \$0.00
 Case Type: Violation
 Address: 0 CHOCOLATE DR, WASHOE COUNTY, NV
 Owner Name: AMERICAN LAND CONSERVANCY THE
 Owner Address: 250 MONTGOMERY ST STE 210, SAN FRANCISCO, CA 94104
 Parent Record: BUS LIC/ZONE COMPLAINTS
 Parcel No: 502-250-10

Contact Info:	Name	Organization Name	Contact Type	Contact Primary Address	Status
	BUTLER RUTH		COMPLAINL	Mailing	Active
	AMERICAN LAND CONSERVA...		VIOLATOR	Mailing, 250 MONTGOMER...	Active

Custom Fields: ENF-VIO-A Screen Violator's Name Inspection Type Key

Description of Work Expanded:

Inops

10 17 05 Inops apparently abandoned in easement on Chocolate south of 5th Ave on the west side of the street Complainant indicates the 2 inops are a 1980s primer coated vehicle and a beige vehicle w o plates KM

10 18 05 sheriffs Dept has tag it to be towed HS

10 24 05 Vehicle has been towed now there is a Tan Saturn send 1st notice HS



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WASHOECOUNTY

COMMUNITY SERVICES DEPARTMENT

Planning and Building Division

Code Enforcement

1001 EAST 9TH STREET
 RENO, NEVADA 89512
 PHONE (775) 328-6106
 FAX (775) 328-6133

Date Printed: 11/01/2021
 Case#: C070501
 Case Status: Complied
 File Date: 12/03/2007
 APN: 502-250-10
 Address: 0 CHOCOLATE DR.

C070501

BUS LIC/ZONE COMPLAINTS
 abandoned mobile home 12 3 07...

STATUS
 > Complied
 10/28/2016 by RSCHEBLER

LOCATION
 > CHOCOLATE DR
 WASHOE COUNTY, NV

CONTACT
 > None Provided

WORKFLOW
 > 1 total Task
 ● 0 completed ○ 0 active

Menu Help

Summary

Record

Activities (0)

Activity Summary (1)

Address (1)

Custom Details

HISTORICAL DATES

INSPECTOR INFO

Custom Lists (1)

Calendar

Comments (0)

Conditions (0)

File Date: 12/03/2007
 Case Status: Complied

Description of Work: abandoned mobile home 12 3 07 CEO Bracy was contacted about an abandoned mobile home which was burned RS 12 03 07 Code Enforcement Officer Bracy inspected this pro and observed a burned out single wide mobile home situated on a vacant parcel This mobile home is located on the east edge of this parcel and has been there for approximately months I mailed a Thirty Day Notice of violation to the property owner BB 02 06 08 Code Enforcement Officer Bracy inspected this property and saw no change I telephoned Dave Clerici at the American Land Conservancy in San Francisco Dave advised that he had driven to Nevada to inspect this property and that his company didn t know it owned this pie land Since they are out of state and are making progress on having this trailer removed I did not send another violation letter BB 03 13 08 I spoke with The American Land Conservancy A welder is working with the company to repair and move the trailer I informed the company that at this time they also needed a trash hauling company for removal of trash that is dumped on the property BB 04 08 Code Enforcement Officer Bracy received a message from Dottie at the American Land Conservancy indicating she was in charge of getting property cleared I mailed a Second Notice of Violation BB 04 14 08 Code Enforcement Officer Bracy inspected this property and saw that it was in compliance There is no trailer on property and the trash has been removed This case is closed BB

Case Detail: Detail
 Total Fee Invoiced: \$0.00
 Total Fee Assessed: \$0.00
 Case Type: Violation
 Address: 0 CHOCOLATE DR, WASHOE COUNTY, NV
 Owner Name: AMERICAN LAND CONSERVANCY THE
 Owner Address: 1388 SUTTER ST #810, SAN FRANCISCO, CA 94109
 Parent Record: BUS LIC/ZONE COMPLAINTS
 Parcel No: 502-250-10

Description of Work Expanded:

abandoned mobile home

12 3 07 CEO Bracy was contacted about an abandoned mobile home which was burned RS

12 03 07 Code Enforcement Officer Bracy inspected this property and observed a burned out single wide mobile home situated on a vacant parcel This mobile home is located on the east edge of this parcel and has been there for approximately 3 months I mailed a Thirty Day Notice of violation to the property owner BB

02 06 08 Code Enforcement Officer Bracy inspected this property and saw no change I telephoned Dave Clerici at the American Land Conservancy in San Francisco Dave advised that he had driven to Nevada to inspect this property and that his company didn t know it owned this piece of land Since they are out of state and are making progress on having this trailer removed I did not send another violation letter BB

03 13 08 I spoke with The American Land Conservancy A welder is working with the company to repair and move the trailer I informed the company that at this time they also needed a trash hauling company for removal of trash that is dumped on the property BB



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04 08 08 Code Enforcement Officer Bracy received a message from Dottie at the American Land Conservancy indicating she was in charge of getting this property cleared I mailed a Second Notice of Violation BB

04 14 08 Code Enforcement Officer Bracy inspected this property and saw that it was in compliance There is no trailer on this property and the trash has been removed This case is closed BB





WASHOE COUNTY

COMMUNITY SERVICES DEPARTMENT

Planning and Building Division

Code Enforcement

1001 EAST 9TH STREET
 RENO, NEVADA 89512
 PHONE (775) 328-6106
 FAX (775) 328-6133

Date Printed: 11/01/2021
 Case# C090178
 Case Status: Complied
 File Date: 06/26/2009
 APN: 502-250-10
 Address: 0 CHOCOLATE DR.

C090178 [🔗](#)
 BUS LIC/ZONE COMPLAINTS
 inoperable vehicles 6 24 09 CEO ...

STATUS
 > Complied
 10/28/2016 by RSCHEBLER

LOCATION
 > CHOCOLATE DR
 WASHOE COUNTY, NV

CONTACT
 > None Provided

WORKFLOW
 > 1 total Task
 0 completed 0 active

Menu Help

File Date: 06/26/2009
 Case Status: Complied

Description of Work: inoperable vehicles 6 24 09 CEO Bracy returned to the office and requested a case be open for this location Previous cases for same in 2005 2007 RS 06 26 09 CEO Bracy receive call reporting two inoperable vehicles on this lot I confirmed the inoperable vehicles and mailed a Thirty Day Notice of Violation to the property owner BB 09 04 09 Code Enforcement Officer Bracy inspected this property and found all inoperable vehicles removed from the property This case is closed BB

Case Detail: Detail
 Total Fee Invoiced: \$0.00
 Total Fee Assessed: \$0.00

Case Type: Violation
 Address: 0 CHOCOLATE DR, WASHOE COUNTY, NV
 Owner Name: AMERICAN LAND CONSERVANCY THE
 Owner Address: 250 MONTGOMERY ST #210, SAN FRANCISCO, CA 94104
 Parent Record: BUS LIC/ZONE COMPLAINTS
 Parcel No: 502-250-10

Contact Info:	Name	Organization Name	Contact Type	Contact Primary Address	Status
	AMERICAN LAND CONSERVA...		VIOLATOR	Mailing, 250 MONTGOMER...	Active

Custom Fields: ENF-VIO.A Screen

Description of Work Expanded:

inoperable vehicles

6 24 09 CEO Bracy returned to the office and requested a case be open for this location Previous cases for same in 2005 2007 RS

06 26 09 CEO Bracy received a call reporting two inoperable vehicles on this lot I confirmed the inoperable vehicles and mailed a Thirty Day Notice of Violation to the property owner BB

09 04 09 Code Enforcement Officer Bracy inspected this property and found all inoperable vehicles removed from the property This case is closed BB



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WASHOE COUNTY

COMMUNITY SERVICES DEPARTMENT

Planning and Building Division

Code Enforcement

1001 EAST 9TH STREET
 RENO, NEVADA 89512
 PHONE (775) 328-6106
 FAX (775) 328-6133

Date Printed: 11/01/2021
 Case# WCMP21-00245 / WVIO-PLA21-0043
 File Date: 03/05/2021
 Case Status: Open / Violation Confirmed
 APN: 502-250-09
 Address: 0 W. GEPFORD PKWY

WCMP21-00245

WCMP21-00245 Outdoor storage of any building ...

STATUS > Violation Found
03/07/2021 by Shawn Latshaw

LOCATION > GEPFORD PKWY
WASHOE COUNTY, NV 89433

CONTACT > Code Enforcement

WORKFLOW > 8 total Task
● 5 completed ○ 2 active

Menu Help

Summary

- Record
- Activities (0)
- Activity Summary (9)
- Address (1)
- Complaint Details
- Custom Lists (1)
- Calendar
- Comments (0)
- Conditions (0)
- Contacts (1)

File Date: 03/05/2021
 Case Status: Violation Found
 Description of Work: Outdoor storage of any building materials, appliances, debris-refuse-rubbish, junk vehicles, or garbage in public view.
 Case Detail: Detail
 Total Fee Invoiced: \$0.00
 Total Fee Assessed: \$0.00

Case Type: Complaint
 Address: 0 GEPFORD PKWY, WASHOE COUNTY, NV 89433
 Owner Name: CHOCOLATE GROUP LLC
 Owner Address: 3860 GS RICHARDS BLVD, CARSON CITY, NV 89703
 Parent Record:
 Parcel No: 502-250-09

Contact Info:	Name	Organization Name	Contact Type	Contact Primary Address	Status
	Code Enforcement		Complainant		Active

Custom Fields: Complaint Details
 Violator's Name Detailed description of the location of the complaint or violation

Description of Work Expanded:

Outdoor storage of any building materials, appliances, debris-refuse-rubbish, junk vehicles, or garbage in public view

Complaint Comments:

None



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Complaint Inspection Comments:

Sched Date	Status	Insp Date	Inspector	Result Comment
3/5/2021	Violation Confirmed	3/5/2021	Shawn Latshaw	Inspection found the property to have several junk vehicles, debris-rubbish-trash, garbage, and junk. Property is in violation of WCC section 110.306.35(b) – Outdoor storage on a vacant parcel without an existing principal use on the property.

WVIO-PLA21-0043

WVIO-PLA21-0043 [🔗](#)

Created by WCMP21-00245; Planning and ...
Outdoor storage of any building materials,...

STATUS
> Open
09/26/2021 by Shawn Latshaw

LOCATION
> GEPFORD PKWY
WASHOE COUNTY, NV 89433

CONTACT
> Code Enforcement

Menu Help

Summary

Record

Activities (0)

Activity Summary (39)

Address (1)

Custom Details

INSPECTOR INFO

Custom Lists (1)

Calendar

Comments (3)

Conditions (0)

Contacts (3)

Documents (6)

File Date: 03/08/2021

Case Status: Open

Description of Work: Outdoor storage of any building materials, appliances, debris-refuse-rubbish, junk vehicles, or garbage in public view.

Case Detail: Detail

Total Fee Invoiced: \$0.00

Total Fee Assessed: \$0.00

Case Type: Violation - Planning/Code Enforcement

Address: 0 GEPFORD PKWY, WASHOE COUNTY, NV 89433

Owner Name: CHOCOLATE GROUP LLC

Owner Address: 3860 GS RICHARDS BLVD, CARSON CITY, NV 89703

Parent Record: Created by WCMP21-00245; Planning and Development - Code Enforcement Investigation: Violation Confirmed, Pla,

Parcel No: 502-250-09

Contact Info:	Name	Organization Name	Contact Type	Contact Primary Address	Status
	Code Enforcement		Complainant		Active
	Code Enforcement		Complainant		Active
	Randal Kuckenmeister		Responsible Party		Active

Custom Fields: ENF-VIO-A Screen
Violator's Name

Detailed description of the location of the complaint or violation

Violation Comments:

Date	Comment	View ID
9/27/2021	09-27-2021 Abandoned Vehicle report forwarded by WCSO.	JCHISM
8/17/2021	08-09-2021 Additional complaint from WCSO listing multiple properties with junk vehicles. Comment for this property stated the following: "White/Black Chevy Cobalt on Gepford/Chocolate Avenue"	JCHISM
3/15/2021	03/15/2021 @ 10:50 I spoke to Randal S. Kuckenmeister, the property manager. He is in the process of cleaning the property. I advise that if more time is needed for arrangements of removing the junk vehicles to contact me for an EOT.	SLATSHAW

Violation Inspections:



Sched Date	Status	Insp Date	Inspector	Result Comment
10/28/2021	Scheduled		Shawn Latshaw	
9/3/2021	Extension of Time	9/27/2021	Shawn Latshaw	Property is being given an EOT as WC property bordering it works on removing junk vehicles (RV).
4/8/2021	Extension of Time	8/10/2021	Shawn Latshaw	Inspection found three junk vehicles on property. Email sent to PO.



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Abandoned Vehicles

Curry, Kristine <KCurry@washoecounty.us>

Mon 8/9/2021 4:36 PM

To: Code-Enforcement <Code-Enforcement@washoecounty.us>

Hello,

I have a few more abandoned vehicles to report.

1. Silver SUV on Klondike Drive between 6th and 7th.
2. Green Chevy Camaro at 226 Gerdes Avenue
3. White/Black Chevy Cobalt on Gepford/Chocolate Avenue
4. Volvo XC70 at 140 Spring Ridge Drive

Thank you!



Kristine Curry

Sheriff Field Specialist | WCSO

911 Parr Blvd. | Reno | NV | 89512

Office (775) 328-3002 | Fax (775) 325-6461

Email: kcurry@washoecounty.us

Web: www.WashoeSheriff.com





Abandoned Vehicles Report

Submitted On: Sep 24, 2021, 07:21PM PDT

Washoe County </br>Sheriff's Office</br>Field Services

Location/Address of Abandoned Vehicle	Chocolate and gepford
Make & Model or Description of Vehicle	Saturn
Color of Vehicle	Grey
License Plate or VIN Number	
Does the vehicle look operable?	No
How long has the vehicle been at this location?	At least 3 months
Have you witnessed any persons going to and from the vehicle?	No
Your Name	First Name: Kathary Last Name: SIMIEN
Your Telephone Number	7753384130
Your Email	kathysimien@yahoo.com

From: [Latshaw, Shawn](#)
To: "randy@kbcallc.com"
Subject: 0 Gepford / 502-250-09 / Chocolate Group
Date: Thursday, August 12, 2021 4:42:00 PM
Attachments: [image001.png](#)
[image002.png](#)
[image003.png](#)
[image004.png](#)
[image005.png](#)
[Junk Veh.pdf](#)

Mr. Kuckenmeister,

We have received several complaints for junk vehicles on the property. I inspected the property and found 3 junk vehicles. I have included photos and a map with there locations. If you could please have these removed in the next few weeks, that would be appreciated.

Regards,



Shawn Latshaw
Code Enforcement Officer II | Community Services Department
slatshaw@washoecounty.us | Office: 775.328.3630 | Mobile:
775.276.2836
Visit us first online: www.washoecounty.us/csd
For Planning call (775) 328-6100
Email: Planning@washoecounty.us



Have some kudos to share about a Community Services Department employee or experience? Email:
CSDSuperstars@washoecounty.us



WASHOE COUNTY
COMMUNITY SERVICES DEPARTMENT
Planning and Building Division
Code Compliance
ADMINISTRATIVE ENFORCEMENT
****WARNING****

1001 EAST 9TH STREET
RENO, NEVADA 89512
PHONE (775) 328-6106
FAX (775) 328-6133

03/08/2021

CHOCOLATE GROUP LLC
3860 GS RICHARDS BLVD
CARSON CITY, NV 89703

Please comply by:04/08/2021

Case Number: WVIO-PLA21-0043
Subject Property: 0 GEPFORD PKWY, SUN VALLEY, NV
Parcel Number: 502-250-09

Dear Respondent:

Based on a complaint received by this office, and a subsequent inspection of subject property, I have determined that a violation of Washoe County code exists on the property. This notice serves as a warning about the code violation and seeks your voluntary action to correct, mitigate, or remedy the code violation.

The code violation found on the property and the actions you must take to correct the situation is:

VIOLATION:

WCC section 110.306.35(b) – Outdoor storage on a vacant parcel without an existing principal use on the property.

CORRECTIVE ACTION:

WCC section 110.306.35(b) – Remove all stored items/material listed below from the property. (see photos)

Please correct the violations by **04/08/2021**. You may contact me to request an extension of time to correct the violation. Any such request for an extension of time may be in writing to the address shown on this letter, by fax at **775-328-6133**, or by phone at **775-328-3630**. I will only grant an extension of time if you have demonstrated reasonable progress in correcting the violation, or there are extenuating circumstances that prevent you from correcting the violation by the stated deadline. If I grant an extension of time, we will mutually develop a plan with time frames for you to correct the violation.

An administrative penalty notice will be issued if the violations are not corrected by **04/08/2021**, or by the date agreed upon by me with an approved extension of time. **The administrative penalty notice will result in an automatic penalty of \$100.** Further Administrative Penalty Notices with increased penalty amounts and additional fees may be issued without further warning if the violation is not corrected. Failure to pay the penalty may cause further action by the County Collections Office, which may include an additional \$50 collection fee, potential penalties and interest, and may result in a lien on the property to recover all unpaid penalties, fees or costs.



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Memo to: CHOCOLATE GROUP LLC

Subject: Code Violation

Date: 03/08/2021

Page: 2

Failure to correct the violation by the compliance date may also result in additional civil or criminal remedies after consultation with the District Attorney's office.



Shawn Latshaw

Code Enforcement Officer II

SLatshaw@washoecounty.us

(775) 328-3630



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09/23/2021 10:14



09/23/2021 10:15



09/23/2021 10:16



09/23/2021 10:17











WASHOE COUNTY

COMMUNITY SERVICES DEPARTMENT

Planning and Building Division

Code Enforcement

1001 EAST 9TH STREET
 RENO, NEVADA 89512
 PHONE (775) 328-6106
 FAX (775) 328-6133

Date Printed: 11/01/2021
 Case# WCMP21-00711
 File Date: 06/17/2021
 Case Status: Closed / Duplicate
 APN: 502-250-09
 Address: 0 W. GEPFORD PKWY

WCMP21-00711

WCMP21-00711 [Refresh](#)
 2 JUNK VEHICLES AND LARGE BL...

STATUS
 > Duplicate
 09/26/2021 by Johnna Chism

LOCATION
 > GEPFORD PKWY
 WASHOE COUNTY, NV 89433

CONTACT
 > CHUCK MCBRIDE

- Summary
- Record
- Activities (0)
- Activity Summary (8)
- Address (1)
- Complaint Details
- Custom Lists (1)
- Calendar
- Comments (4)
- Conditions (0)
- Contacts (1)

Menu
Help

File Date: 06/17/2021
 Case Status: Duplicate
 Description of Work: 2 JUNK VEHICLES AND LARGE BLUE JUNK RV
 Case Detail: Detail
 Total Fee Invoiced: \$0.00
 Total Fee Assessed: \$0.00
 Case Type: Complaint
 Address: 0 GEPFORD PKWY, WASHOE COUNTY, NV 89433
 Owner Name: CHOCOLATE GROUP LLC
 Owner Address: 3860 GS RICHARDS BLVD, CARSON CITY, NV 89703
 Parent Record:
 Parcel No: 502-250-09

Contact Info:	Name	Organization Name	Contact Type	Contact Primary Address	SI
	CHUCK MCBRIDE		Complainant		

Custom Fields: Complaint Details
 Violator's Name Detailed description of the location of the complaint or violation

Description of Work Expanded:

2 JUNK VEHICLES AND LARGE BLUE JUNK RV

Complaint Inspection Comments:

Date	Comment	View ID
8/12/2021	See WVIO-PLA21-0043	SLATSHAW
8/6/2021	07-27-2021 Anonymous complaint call stating property has another junk vehicle right at Gepford where it his Chocolate.	JCHISM
6/18/2021	06-18-2021 Complaint call from Chuck McBride stating that there is a junk Chevy Cobalt that has been there 3 months.	JCHISM

6/17/2021	06-16-2021 WCSO forwarded 3 separate complaints for "illegal dumping" of junk vehicles at "Chocolate and Gepford". Emails state cars are "in the ravine".	JCHISM
-----------	---	--------

Complaint Inspections:

Sched Date	Status	Insp Date	Inspector	Result Comment
6/17/2021	Duplicate / Closed	8/10/2021	Shawn Latshaw	See WVIO-PLA21-0043

Fw: Illegal Dumping Report ID 2468 has been forwarded to your Agency from Washoe Sheriff.

Curry, Kristine <KCurry@washoecounty.us>

Wed 6/16/2021 1:28 PM

To: Code-Enforcement <Code-Enforcement@washoecounty.us>

Hello,

Please see the below request.

Notes state the motorhome it located on W Gepford and Chocolate. I believe the parcel will be 502-250-09.

Thank you,



Kristine Curry

Sheriff Field Specialist | WCSO

911 Parr Blvd. | Reno | NV | 89512

Office (775) 328-3002 | Fax (775) 325-6461

Email: kcurry@washoecounty.us

Web: www.WashoeSheriff.com



From: Sheriff - Web <SheriffWeb@washoecounty.us>

Sent: Wednesday, June 16, 2021 12:42 PM

To: Sheriff – Front Desk <SO-SSS-FD@washoecounty.us>

Subject: Illegal Dumping Report ID 2468 has been forwarded to your Agency from Washoe Sheriff.

Illegal Dumping Report ID 2468 Has been forwarded to your Agency from Washoe Sheriff.

Image link:

https://wcsoapi.washoecounty.us/Images/dumping_images/dumping_image_tecyurns.5rj.jpg

Jurisdiction: SPARKS .

Address: .

Staff Notes: Forwarded[9] Gepford and chocolate...in the ravine .

<http://maps.google.com/maps?q=39.533825,+119.76973> .



NEVADA
241-D57
Great Outdoors

NEVADA

2400



Fw: Illegal Dumping Report ID 2469 has been forwarded to your Agency from Washoe Sheriff.

Curry, Kristine <KCurry@washoecounty.us>

Wed 6/16/2021 1:30 PM

To: Code-Enforcement <Code-Enforcement@washoecounty.us>

Hello,

Please see second request for W Gepford and Chocolate.

Thank you,



Kristine Curry

Sheriff Field Specialist | WCSO

911 Parr Blvd. | Reno | NV | 89512

Office (775) 328-3002 | Fax (775) 325-6461

Email: kcurry@washoecounty.us

Web: www.WashoeSheriff.com



From: Sheriff - Web <SheriffWeb@washoecounty.us>

Sent: Wednesday, June 16, 2021 12:41 PM

To: Sheriff – Front Desk <SO-SSS-FD@washoecounty.us>

Subject: Illegal Dumping Report ID 2469 has been forwarded to your Agency from Washoe Sheriff.

Illegal Dumping Report ID 2469 Has been forwarded to your Agency from Washoe Sheriff.

Image link:

https://wcsoapi.washoecounty.us/Images/dumping_images/dumping_image_niaesqvv.r2g.jpg

Jurisdiction: WASHOE .

Address: .

Staff Notes: Forwarded[9] Gepford and chocolate...in the ravine .

<http://maps.google.com/maps?q=39.584807421912,+119.7908274555> .



Fw: Illegal Dumping Report ID 2470 has been forwarded to your Agency from Washoe Sheriff.

Curry, Kristine <KCurry@washoecounty.us>

Wed 6/16/2021 1:30 PM

To: Code-Enforcement <Code-Enforcement@washoecounty.us>

Hello,

Please see third request for W Gepford and Chocolate.

Thank you,



Kristine Curry

Sheriff Field Specialist | WCSO

911 Parr Blvd. | Reno | NV | 89512

Office (775) 328-3002 | Fax (775) 325-6461

Email: kcurry@washoecounty.us

Web: www.WashoeSheriff.com



From: Sheriff - Web <SheriffWeb@washoecounty.us>

Sent: Wednesday, June 16, 2021 12:40 PM

To: Sheriff – Front Desk <SO-SSS-FD@washoecounty.us>

Subject: Illegal Dumping Report ID 2470 has been forwarded to your Agency from Washoe Sheriff.

Illegal Dumping Report ID 2470 Has been forwarded to your Agency from Washoe Sheriff.

Image link:

https://wcsoapi.washoecounty.us/Images/dumping_images/dumping_image_exts1urn.dqg.jpg

Jurisdiction: WASHOE .

Address: .

Staff Notes: Forwarded[9] Gepford/chocolate .

<http://maps.google.com/maps?q=39.588043212890,+119.7864593580> .



From: Jamie Haas
Sent: Monday, December 6, 2021 8:24 AM
To: Lui Barkkume
Cc: Amanda Jones
Subject: RE: EXTERNAL: RE: Public Info Request for Pipeline PPC218EB

Good morning Lui,
Great Basin Engineering will review your work area and get back with the answers to your questions.
Thank you,
Jamie



Jamie Haas | Supervisor, Construction/GBGTC

direct 775.887.2740 | mobile 775.881.8149
P.O. Box 1190 | Carson City, NV 89702-1190
jamie.haas@swgas.com | www.GreatBasinGTC.com

From: Lui Barkkume <luib@arkoseinc.com>
Sent: Saturday, December 4, 2021 9:51 PM
To: David Kelly <david.kelly@swgas.com>; Thomas Sorensen <Thomas.Sorensen@swgas.com>;
rosie.ramirez@swgas.com; Jamie Haas <Jamie.Haas@swgas.com>; russell.siegman@swgas.com; Marcus
Hernandez <marcus.hernandez@swgas.com>; david.kelly@paiutepipeline.com;
thomas.sorensen@paiutepipeline.com; rosie.ramirez@paiutepipeline.com;
jamie.haas@paiutepipeline.com; russell.siegman@paiutepipeline.com;
marcus.hernandez@paiutepipeline.com
Cc: info@arkoseinc.com
Subject: EXTERNAL: RE: Public Info Request for Pipeline PPC218EB

[WARNING] This message originated outside of Southwest Gas. **DO NOT CLICK** links or attachments unless you recognize the sender and know the content is safe.

Arkose Environmental, Inc. is conducting a U.S. Department of Housing and Urban Development (HUD) Multifamily Accelerated Processing (MAP) compliant Environmental Site Assessment (ESA) for a proposed multifamily development on approximately 45.51 acres of land located west of Chocolate Drive in Sun Valley, Washoe County, Nevada (project location and site plan attached).

As part of the HUD MAP compliant ESA for HUD funded and/or insured multifamily development, I am required to determine the HUD acceptable separation distance (ASD) and baseline pipeline impact

radius for the Great Basin Gas Transmission Company buried high pressure gas pipeline located within 1-mile of my project (south).

Would you please provide the following information for Pipeline ID: PPC218EB; System Name: PPC; Subsystem Name: Paiute Transmission System?

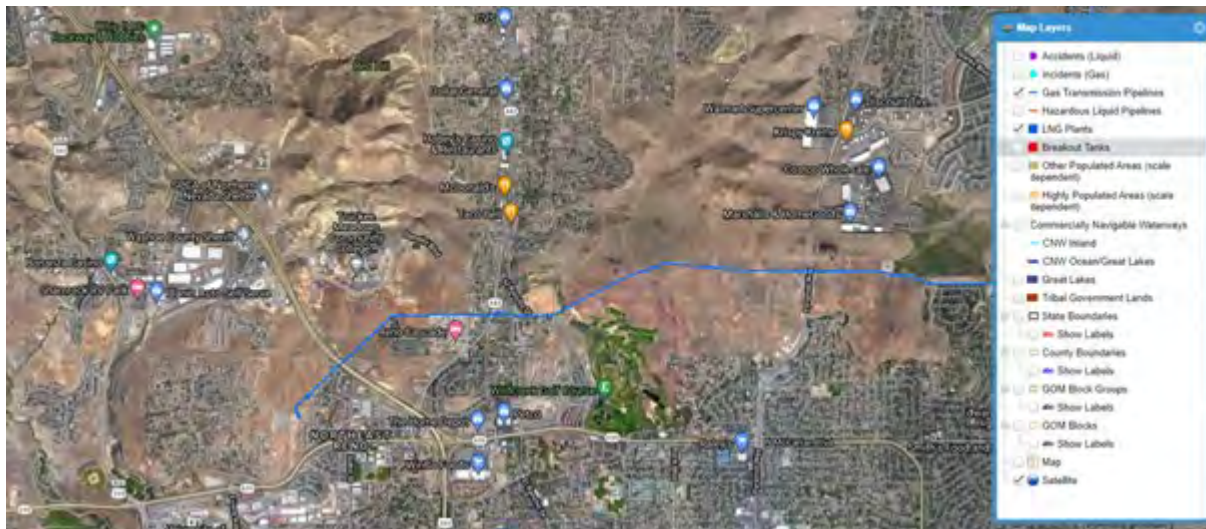
- **Contents**
- **Diameter (in inches)**
- **Operational Pressure (in pounds per square inch)**

The image below provides the pipeline location and layout (blue line overlaid on satellite image; also provided in attached NPMS Map document) and additional information I have acquired for the pipeline from the National Pipeline Mapping System.

Your assistance with this matter is greatly appreciated. Thank you!

Sincerely,

Lui Barkkume
Arkose Environmental, Inc.
(214) 682-4582
Luib@arkoseinc.com
www.arkoseinc.com



Attribute	Value
- Category: PIPELINE ATTRIBUTES	
OPERATOR ID	15033
OPERATOR NAME	GREAT BASIN GAS TRANSMISSION...
SYSTEM NAME	PPC
SUBSYSTEM NAME	PAIUTE TRANSMISSIN SYSTEM
PIPELINE ID	PPC218EB
MILES	1.32
COMMODITY CATEGORY	Natural Gas
COMMODITY DESCRIPTION	NATURAL GAS
INTERSTATE DESIGNATION	Y
PIPELINE STATUS CODE	Active (filled)
REVISION DATE	03/12/2020
FRP SEQUENCE NUMBER	
INSPECTION AUTHORITY	PHMSA
- Category: GENERAL CONTACT	
FIRST NAME	
LAST NAME	
TITLE	
ENTITY	Gas Control
PHONE	(800) 624-2153
EMAIL	jeff.maples@swgas.com
ADDRESS	349 Koontz Lane
CITY	Carson City
STATE	NV
ZIP	89701
Public Awareness URL	https://paiutepipeline.com/

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Thank you for your cooperation.



United States Department of the Interior



FISH AND WILDLIFE SERVICE
Reno Fish And Wildlife Office
1340 Financial Boulevard, Suite 234
Reno, NV 89502-7147
Phone: (775) 861-6300 Fax: (775) 861-6301
<http://www.fws.gov/reno/>

In Reply Refer To:
Consultation Code: 08ENVD00-2022-SLI-0081
Event Code: 08ENVD00-2022-E-00230
Project Name: Proposed Multifamily Development

December 04, 2021

Subject: List of threatened and endangered species that may occur in your proposed project location or may be affected by your proposed project

To Whom It May Concern:

The attached species list indicates threatened, endangered, proposed, and candidate species and designated or proposed critical habitat that may occur within the boundary of your proposed project and/or may be affected by your proposed project. The species list fulfills the requirements of the U.S. Fish and Wildlife Service (Service) under section 7(c) of the Endangered Species Act of 1973, as amended (ESA, 16 U.S.C. 1531 *et seq.*), for projects that are authorized, funded, or carried out by a Federal agency. Candidate species have no protection under the ESA but are included for consideration because they could be listed prior to the completion of your project. Consideration of these species during project planning may assist species conservation efforts and may prevent the need for future listing actions. For additional information regarding species that may be found in the proposed project area, visit <http://www.fws.gov/nevada/es/ipac.html>.

The purpose of the ESA is to provide a means whereby threatened and endangered species and the ecosystems upon which they depend may be conserved. Under sections 7(a)(1) and 7(a)(2) of the ESA and its implementing regulations (50 CFR 402 *et seq.*), Federal agencies are required to utilize their authorities to carry out programs for the conservation of threatened and endangered species and to determine whether projects may affect threatened and endangered species and/or designated critical habitat.

A Biological Assessment is required for construction projects that are major Federal actions significantly affecting the quality of the human environment as defined in the National Environmental Policy Act (42 U.S.C. 4332(2) (c)). For projects other than major construction activities, the Service suggests that a biological evaluation similar to a Biological Assessment be prepared to determine whether the project may affect listed or proposed species and/or

designated or proposed critical habitat. Guidelines for preparing a Biological Assessment can be found at: http://www.fws.gov/midwest/endangered/section7/ba_guide.html.

If a Federal action agency determines, based on the Biological Assessment or biological evaluation, that listed species and/or designated critical habitat may be affected by the proposed project, the agency is required to consult with the Service pursuant to 50 CFR 402. In addition, the Service recommends that candidate species, proposed species, and proposed critical habitat be addressed within the consultation. More information on the regulations and procedures for section 7 consultation, including the role of permit or license applicants, can be found in the "Endangered Species Consultation Handbook" at: <http://www.fws.gov/endangered/esa-library/pdf/TOC-GLOS.PDF>.

New information based on updated surveys, changes in the abundance and distribution of species, changed habitat conditions, or other factors could change this species list. Please feel free to contact us if you need more current information or assistance regarding the potential impacts to federally listed, proposed, and candidate species and federally designated and proposed critical habitat. Please note that under 50 CFR 402.12(e) of the regulations implementing section 7 of the ESA, the accuracy of this species list should be verified after 90 days. This verification can be completed formally or informally, as desired. The Service recommends that verification be completed by visiting the ECOS-IPaC website at regular intervals during project planning and implementation, for updates to species lists and information. An updated list may be requested through the ECOS-IPaC system by completing the same process used to receive the attached list.

The Nevada Fish and Wildlife Office (NFWO) no longer provides species of concern lists. Most of these species for which we have concern are also on the Animal and Plant At-Risk Tracking List for Nevada (At-Risk list) maintained by the State of Nevada's Natural Heritage Program (Heritage). Instead of maintaining our own list, we adopted Heritage's At-Risk list and are partnering with them to provide distribution data and information on the conservation needs for at-risk species to agencies or project proponents. The mission of Heritage is to continually evaluate the conservation priorities of native plants, animals, and their habitats, particularly those most vulnerable to extinction or in serious decline. In addition, in order to avoid future conflicts, we ask that you consider these at-risk species early in your project planning and explore management alternatives that provide for their long-term conservation.

For a list of at-risk species by county, visit Heritage's website (<http://heritage.nv.gov>). For a specific list of at-risk species that may occur in the project area, you can obtain a data request form from the website (http://heritage.nv.gov/get_data) or by contacting the Administrator of Heritage at 901 South Stewart Street, Suite 5002, Carson City, Nevada 89701-5245, (775) 684-2900. Please indicate on the form that your request is being obtained as part of your coordination with the Service under the ESA. During your project analysis, if you obtain new information or data for any Nevada sensitive species, we request that you provide the information to Heritage at the above address.

Furthermore, certain species of fish and wildlife are classified as protected by the State of Nevada (<http://www.leg.state.nv.us/NAC/NAC-503.html>). You must first obtain the appropriate license, permit, or written authorization from the Nevada Department of Wildlife (NDOW) to

take, or possess any parts of protected fish and wildlife species. Please visit <http://www.ndow.org> or contact NDOW in northern Nevada (775) 688-1500, in southern Nevada (702) 486-5127, or in eastern Nevada (775) 777-2300.

Please be aware that bald and golden eagles are protected under the Bald and Golden Eagle Protection Act (16 U.S.C. 668 *et seq.*), and projects affecting these species may require development of an eagle conservation plan (http://www.fws.gov/windenergy/eagle_guidance.html). Additionally, wind energy projects should follow the Service's wind energy guidelines (<http://www.fws.gov/windenergy/>) for minimizing impacts to migratory birds and bats.

The Service's Pacific Southwest Region developed the *Interim Guidelines for the Development of a Project Specific Avian and Bat Protection Plan for Wind Energy Facilities* (Interim Guidelines). This document provides energy facility developers with a tool for assessing the risk of potential impacts to wildlife resources and delineates how best to design and operate a bird- and bat-friendly wind facility. These Interim Guidelines are available upon request from the NFWO. The intent of a Bird and Bat Conservation Strategy is to conserve wildlife resources while supporting project developers through: (1) establishing project development in an adaptive management framework; (2) identifying proper siting and project design strategies; (3) designing and implementing pre-construction surveys; (4) implementing appropriate conservation measures for each development phase; (5) designing and implementing appropriate post-construction monitoring strategies; (6) using post-construction studies to better understand the dynamics of mortality reduction (*e.g.*, changes in blade cut-in speed, assessments of blade "feathering" success, and studies on the effects of visual and acoustic deterrents) including efforts tied into Before-After/Control-Impact analysis; and (7) conducting a thorough risk assessment and validation leading to adjustments in management and mitigation actions.

The template and recommendations set forth in the Interim Guidelines were based upon the Avian Powerline Interaction Committee's Avian Protection Plan template (<http://www.aplic.org/>) developed for electric utilities and modified accordingly to address the unique concerns of wind energy facilities. These recommendations are also consistent with the Service's wind energy guidelines. We recommend contacting us as early as possible in the planning process to discuss the need and process for developing a site-specific Bird and Bat Conservation Strategy.

The Service has also developed guidance regarding wind power development in relation to prairie grouse leks (sage-grouse are included in this). This document can be found at: http://www.fws.gov/southwest/es/Oklahoma/documents/te_species/wind%20power/prairie%20grouse%20lek%205%20mile%20public.pdf.

Migratory Birds are a Service Trust Resource. Based on the Service's conservation responsibilities and management authority for migratory birds under the Migratory Bird Treaty Act of 1918, as amended (MBTA; 16 U.S.C. 703 *et seq.*), we recommend that any land clearing or other surface disturbance associated with proposed actions within the project area be timed to avoid potential destruction of bird nests or young, or birds that breed in the area. Such destruction may be in violation of the MBTA. Under the MBTA, nests with eggs or young of migratory birds may not be harmed, nor may migratory birds be killed. Therefore, we recommend land clearing be conducted outside the avian breeding season. If this is not feasible,

we recommend a qualified biologist survey the area prior to land clearing. If nests are located, or if other evidence of nesting (*i.e.*, mated pairs, territorial defense, carrying nesting material, transporting food) is observed, a protective buffer (the size depending on the habitat requirements of the species) should be delineated and the entire area avoided to prevent destruction or disturbance to nests until they are no longer active.

Guidance for minimizing impacts to migratory birds for projects involving communications towers (*e.g.*, cellular, digital television, radio, and emergency broadcast) can be found at: <http://www.fws.gov/migratorybirds/CurrentBirdIssues/Hazards/towers/towers.htm>; <http://www.towerkill.com>; and <http://www.fws.gov/migratorybirds/CurrentBirdIssues/Hazards/towers/comtow.html>.

If wetlands, springs, or streams are known to occur in the project area or are present in the vicinity of the project area, we ask that you be aware of potential impacts project activities may have on these habitats. Discharge of fill material into wetlands or waters of the United States is regulated by the U.S. Army Corps of Engineers (ACOE) pursuant to section 404 of the Clean Water Act of 1972, as amended. We recommend you contact the ACOE's Regulatory Section regarding the possible need for a permit. For projects located in northern Nevada (Carson City, Churchill, Douglas, Elko, Esmeralda, Eureka, Humboldt, Lander, Lyon, Mineral, Pershing, Storey, and Washoe Counties) contact the Reno Regulatory Office at 300 Booth Street, Room 3060, Reno, Nevada 89509, (775) 784-5304; in southern Nevada (Clark, Lincoln, Nye, and White Pine Counties) contact the St. George Regulatory Office at 321 North Mall Drive, Suite L-101, St. George, Utah 84790-7314, (435) 986-3979; or in California along the eastern Sierra contact the Sacramento Regulatory Office at 650 Capitol Mall, Suite 5-200, Sacramento, California 95814, (916) 557-5250.

We appreciate your concern for threatened and endangered species. Please include the Consultation Tracking Number in the header of this letter with any request for consultation or correspondence about your project that you submit to our office.

The table below outlines lead FWS field offices by county and land ownership/project type. Please refer to this table when you are ready to coordinate (including requests for section 7 consultation) with the field office corresponding to your project, and send any documentation regarding your project to that corresponding office. Therefore, the lead FWS field office may not be the office listed above in the letterhead.

Lead FWS offices by County and Ownership/Program

County	Ownership/Program	Species	Office Lead*
Alameda	Tidal wetlands/marsh adjacent to Bays	Salt marsh species, delta smelt	BDFWO
Alameda	All ownerships but tidal/estuarine	All	SFWO
Alpine	Humboldt Toiyabe National Forest	All	RFWO

Alpine	Lake Tahoe Basin Management Unit	All	RFWO
Alpine	Stanislaus National Forest	All	SFWO
Alpine	El Dorado National Forest	All	SFWO
Colusa	Mendocino National Forest	All	AFWO
Colusa	Other	All	By jurisdiction (see map)
Contra Costa	Legal Delta (Excluding ECCHCP)	All	BDFWO
Contra Costa	Antioch Dunes NWR	All	BDFWO
Contra Costa	Tidal wetlands/marsh adjacent to Bays	Salt marsh species, delta smelt	BDFWO
Contra Costa	All ownerships but tidal/estuarine	All	SFWO
Del Norte	All	All	AFWO
El Dorado	El Dorado National Forest	All	SFWO
El Dorado	LakeTahoe Basin Management Unit		RFWO
Glenn	Mendocino National Forest	All	AFWO
Glenn	Other	All	By jurisdiction (see map)
	All except Shasta Trinity National Forest	All	AFWO
Humboldt			
Humboldt	Shasta Trinity National Forest	All	YFWO
Lake	Mendocino National Forest	All	AFWO
Lake	Other	All	By jurisdiction (see map)
Lassen	Modoc National Forest	All	KFWO
Lassen	Lassen National Forest	All	SFWO
Lassen	Toiyabe National Forest	All	RFWO
Lassen	BLM Surprise and Eagle Lake Resource Areas	All	RFWO

Lassen	BLM Alturas Resource Area	All	KFWO
Lassen	Lassen Volcanic National Park	All (includes Eagle Lake trout on all ownerships)	SFWO
Lassen	All other ownerships	All	By jurisdiction (see map)
Marin	Tidal wetlands/marsh adjacent to Bays	Salt marsh species, delta smelt	BDFWO
Marin	All ownerships but tidal/estuarine	All	SFWO
Mendocino	Russian River watershed	All	SFWO
Mendocino	All except Russian River watershed	All	AFWO
Modoc	Modoc National Forest	All	KFWO
Modoc	BLM Alturas Resource Area	All	KFWO
Modoc	Klamath Basin National Wildlife Refuge Complex	All	KFWO
Modoc	BLM Surprise and Eagle Lake Resource Areas	All	RFWO
Modoc	All other ownerships	All	By jurisdiction (See map)
Mono	Inyo National Forest	All	RFWO
Mono	Humboldt Toiyabe National Forest	All	RFWO
	All ownerships but tidal/estuarine	All	SFWO
Napa			
Napa	Tidal wetlands/marsh adjacent to San Pablo Bay	Salt marsh species, delta smelt	BDFWO
Nevada	Humboldt Toiyabe National Forest	All	RFWO
Nevada	All other ownerships	All	By jurisdiction (See map)

Placer	Lake Tahoe Basin Management Unit	All	RFWO
Placer	All other ownerships	All	SFWO
Sacramento	Legal Delta	Delta Smelt	BDFWO
Sacramento	Other	All	By jurisdiction (see map)
San Francisco	Tidal wetlands/marsh adjacent to San Francisco Bay	Salt marsh species, delta smelt	BDFWO
San Francisco	All ownerships but tidal/estuarine	All	SFWO
San Mateo	Tidal wetlands/marsh adjacent to San Francisco Bay	Salt marsh species, delta smelt	BDFWO
San Mateo	All ownerships but tidal/estuarine	All	SFWO
San Joaquin	Legal Delta excluding San Joaquin HCP	All	BDFWO
San Joaquin	Other	All	SFWO
Santa Clara	Tidal wetlands/marsh adjacent to San Francisco Bay	Salt marsh species, delta smelt	BDFWO
Santa Clara	All ownerships but tidal/estuarine	All	SFWO
Shasta	Shasta Trinity National Forest except Hat Creek Ranger District (administered by Lassen National Forest)	All	YFWO
Shasta	Hat Creek Ranger District	All	SFWO
Shasta	Bureau of Reclamation (Central Valley Project)	All	BDFWO
Shasta	Whiskeytown National Recreation Area	All	YFWO

Shasta	BLM Alturas Resource Area	All	KFWO
Shasta	Caltrans	By jurisdiction	SFWO/AFWO
Shasta	Ahjumawi Lava Springs State Park	Shasta crayfish	SFWO
Shasta	All other ownerships	All	By jurisdiction (see map)
Shasta	Natural Resource Damage Assessment, all lands	All	SFWO/BDFWO
Sierra	Humboldt Toiyabe National Forest	All	RFWO
Sierra	All other ownerships	All	SFWO
Siskiyou	Klamath National Forest (except Ukonom District)	All	YFWO
Siskiyou	Six Rivers National Forest and Ukonom District	All	AFWO
Siskiyou	Shasta Trinity National Forest	All	YFWO
Siskiyou	Lassen National Forest	All	SFWO
Siskiyou	Modoc National Forest	All	KFWO
Siskiyou	Lava Beds National Volcanic Monument	All	KFWO
Siskiyou	BLM Alturas Resource Area	All	KFWO
Siskiyou	Klamath Basin National Wildlife Refuge Complex	All	KFWO
Siskiyou	All other ownerships	All	By jurisdiction (see map)
Solano	Suisun Marsh	All	BDFWO
Solano	Tidal wetlands/marsh adjacent to San Pablo Bay	Salt marsh species, delta smelt	BDFWO
Solano	All ownerships but tidal/estuarine	All	SFWO
Solano	Other	All	By jurisdiction (see map)

Sonoma	Tidal wetlands/marsh adjacent to San Pablo Bay	Salt marsh species, delta smelt	BDFWO
Sonoma	All ownerships but tidal/estuarine	All	SFWO
Tehama	Mendocino National Forest	All	AFWO
Tehama	Shasta Trinity National Forest except Hat Creek Ranger District (administered by Lassen National Forest)	All	YFWO
Tehama	All other ownerships	All	By jurisdiction (see map)
Trinity	BLM	All	AFWO
Trinity	Six Rivers National Forest	All	AFWO
Trinity	Shasta Trinity National Forest	All	YFWO
Trinity	Mendocino National Forest	All	AFWO
Trinity	BIA (Tribal Trust Lands)	All	AFWO
Trinity	County Government	All	AFWO
Trinity	All other ownerships	All	By jurisdiction (See map)
Yolo	Yolo Bypass	All	BDFWO
Yolo	Other	All	By jurisdiction (see map)
All	FERC-ESA	All	By jurisdiction (see map)
All	FERC-ESA	Shasta crayfish	SFWO
All	FERC-Relicensing (non-ESA)	All	BDFWO

***Office Leads:**

AFWO=Arcata Fish and Wildlife Office

BDFWO=Bay Delta Fish and Wildlife Office

KFWO=Klamath Falls Fish and Wildlife Office

RFWO=Reno Fish and Wildlife Office

YFWO=Yreka Fish and Wildlife Office

Attachment(s):

- Official Species List
 - USFWS National Wildlife Refuges and Fish Hatcheries
 - Migratory Birds
 - Wetlands
-

Official Species List

This list is provided pursuant to Section 7 of the Endangered Species Act, and fulfills the requirement for Federal agencies to "request of the Secretary of the Interior information whether any species which is listed or proposed to be listed may be present in the area of a proposed action".

This species list is provided by:

Reno Fish And Wildlife Office

1340 Financial Boulevard, Suite 234

Reno, NV 89502-7147

(775) 861-6300

Project Summary

Consultation Code: 08ENVD00-2022-SLI-0081

Event Code: Some(08ENVD00-2022-E-00230)

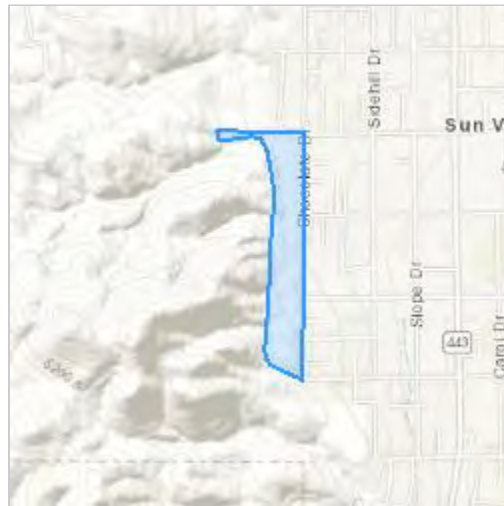
Project Name: Proposed Multifamily Development

Project Type: DEVELOPMENT

Project Description: Proposed Multifamily Development for HUD 221(d)(4) New Construction

Project Location:

Approximate location of the project can be viewed in Google Maps: <https://www.google.com/maps/@39.58722535,-119.79017433571138,14z>



Counties: Washoe County, Nevada

Endangered Species Act Species

There is a total of 5 threatened, endangered, or candidate species on this species list.

Species on this list should be considered in an effects analysis for your project and could include species that exist in another geographic area. For example, certain fish may appear on the species list because a project could affect downstream species.

IPaC does not display listed species or critical habitats under the sole jurisdiction of NOAA Fisheries¹, as USFWS does not have the authority to speak on behalf of NOAA and the Department of Commerce.

See the "Critical habitats" section below for those critical habitats that lie wholly or partially within your project area under this office's jurisdiction. Please contact the designated FWS office if you have questions.

1. [NOAA Fisheries](#), also known as the National Marine Fisheries Service (NMFS), is an office of the National Oceanic and Atmospheric Administration within the Department of Commerce.

Fishes

NAME	STATUS
Cui-ui <i>Chasmistes cujus</i> No critical habitat has been designated for this species. Species profile: https://ecos.fws.gov/ecp/species/456	Endangered
Lahontan Cutthroat Trout <i>Oncorhynchus clarkii henshawi</i> No critical habitat has been designated for this species. Species profile: https://ecos.fws.gov/ecp/species/3964	Threatened

Insects

NAME	STATUS
Carson Wandering Skipper <i>Pseudocopaeodes eunus obscurus</i> No critical habitat has been designated for this species. Species profile: https://ecos.fws.gov/ecp/species/674	Endangered
Monarch Butterfly <i>Danaus plexippus</i> No critical habitat has been designated for this species. Species profile: https://ecos.fws.gov/ecp/species/9743	Candidate

Flowering Plants

NAME	STATUS
Webber's Ivesia <i>Ivesia webberi</i> There is final critical habitat for this species. The location of the critical habitat is not available. Species profile: https://ecos.fws.gov/ecp/species/4682	Threatened

Critical habitats

THERE ARE NO CRITICAL HABITATS WITHIN YOUR PROJECT AREA UNDER THIS OFFICE'S JURISDICTION.

USFWS National Wildlife Refuge Lands And Fish Hatcheries

Any activity proposed on lands managed by the [National Wildlife Refuge](#) system must undergo a 'Compatibility Determination' conducted by the Refuge. Please contact the individual Refuges to discuss any questions or concerns.

THERE ARE NO REFUGE LANDS OR FISH HATCHERIES WITHIN YOUR PROJECT AREA.

Migratory Birds

Certain birds are protected under the Migratory Bird Treaty Act¹ and the Bald and Golden Eagle Protection Act².

Any person or organization who plans or conducts activities that may result in impacts to migratory birds, eagles, and their habitats should follow appropriate regulations and consider implementing appropriate conservation measures, as described [below](#).

-
1. The [Migratory Birds Treaty Act](#) of 1918.
 2. The [Bald and Golden Eagle Protection Act](#) of 1940.
 3. 50 C.F.R. Sec. 10.12 and 16 U.S.C. Sec. 668(a)

The birds listed below are birds of particular concern either because they occur on the [USFWS Birds of Conservation Concern](#) (BCC) list or warrant special attention in your project location. To learn more about the levels of concern for birds on your list and how this list is generated, see the FAQ [below](#). This is not a list of every bird you may find in this location, nor a guarantee that every bird on this list will be found in your project area. To see exact locations of where birders and the general public have sighted birds in and around your project area, visit the [E-bird data mapping tool](#) (Tip: enter your location, desired date range and a species on your list). For projects that occur off the Atlantic Coast, additional maps and models detailing the relative occurrence and abundance of bird species on your list are available. Links to additional information about Atlantic Coast birds, and other important information about your migratory bird list, including how to properly interpret and use your migratory bird report, can be found [below](#).

For guidance on when to schedule activities or implement avoidance and minimization measures to reduce impacts to migratory birds on your list, click on the PROBABILITY OF PRESENCE SUMMARY at the top of your list to see when these birds are most likely to be present and breeding in your project area.

NAME	BREEDING SEASON
Evening Grosbeak <i>Coccothraustes vespertinus</i> This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.	Breeds May 15 to Aug 10
Rufous Hummingbird <i>selasphorus rufus</i> This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska. https://ecos.fws.gov/ecp/species/8002	Breeds Apr 15 to Jul 15
Willet <i>Tringa semipalmata</i> This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.	Breeds Apr 20 to Aug 5

Probability Of Presence Summary

The graphs below provide our best understanding of when birds of concern are most likely to be present in your project area. This information can be used to tailor and schedule your project activities to avoid or minimize impacts to birds. Please make sure you read and understand the FAQ "Proper Interpretation and Use of Your Migratory Bird Report" before using or attempting to interpret this report.

Probability of Presence (■)

Each green bar represents the bird's relative probability of presence in the 10km grid cell(s) your project overlaps during a particular week of the year. (A year is represented as 12 4-week months.) A taller bar indicates a higher probability of species presence. The survey effort (see below) can be used to establish a level of confidence in the presence score. One can have higher confidence in the presence score if the corresponding survey effort is also high.

How is the probability of presence score calculated? The calculation is done in three steps:

1. The probability of presence for each week is calculated as the number of survey events in the week where the species was detected divided by the total number of survey events for that week. For example, if in week 12 there were 20 survey events and the Spotted Towhee was found in 5 of them, the probability of presence of the Spotted Towhee in week 12 is 0.25.
2. To properly present the pattern of presence across the year, the relative probability of presence is calculated. This is the probability of presence divided by the maximum probability of presence across all weeks. For example, imagine the probability of presence in week 20 for the Spotted Towhee is 0.05, and that the probability of presence at week 12 (0.25) is the maximum of any week of the year. The relative probability of presence on week 12 is $0.25/0.25 = 1$; at week 20 it is $0.05/0.25 = 0.2$.
3. The relative probability of presence calculated in the previous step undergoes a statistical conversion so that all possible values fall between 0 and 10, inclusive. This is the probability of presence score.

Breeding Season (■)

Yellow bars denote a very liberal estimate of the time-frame inside which the bird breeds across its entire range. If there are no yellow bars shown for a bird, it does not breed in your project area.

Survey Effort (|)

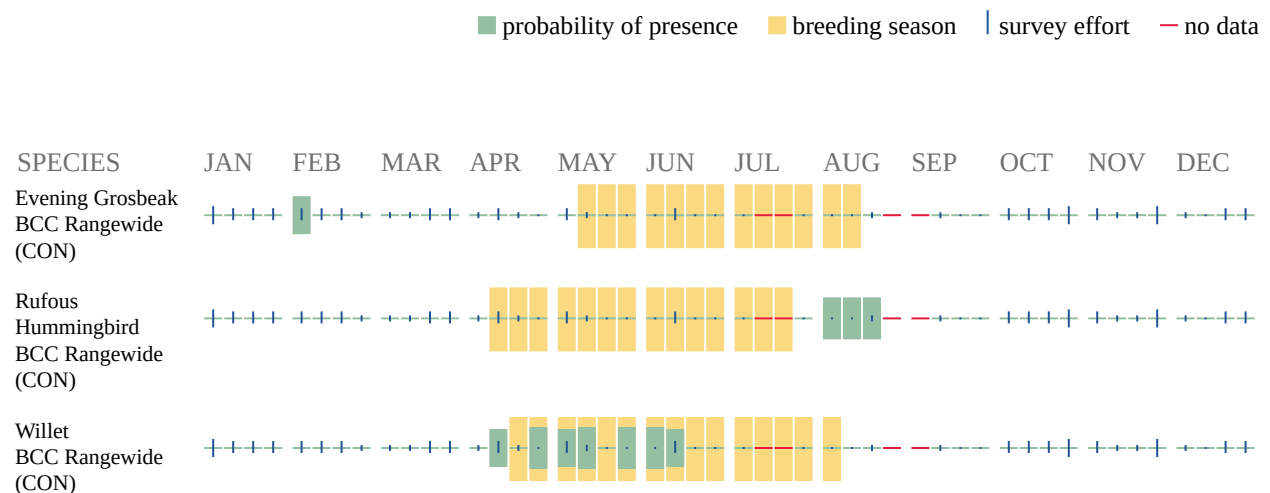
Vertical black lines superimposed on probability of presence bars indicate the number of surveys performed for that species in the 10km grid cell(s) your project area overlaps. The number of surveys is expressed as a range, for example, 33 to 64 surveys.

No Data (—)

A week is marked as having no data if there were no survey events for that week.

Survey Timeframe

Surveys from only the last 10 years are used in order to ensure delivery of currently relevant information. The exception to this is areas off the Atlantic coast, where bird returns are based on all years of available data, since data in these areas is currently much more sparse.



Additional information can be found using the following links:

- Birds of Conservation Concern <http://www.fws.gov/birds/management/managed-species/birds-of-conservation-concern.php>
- Measures for avoiding and minimizing impacts to birds <http://www.fws.gov/birds/management/project-assessment-tools-and-guidance/conservation-measures.php>
- Nationwide conservation measures for birds <http://www.fws.gov/migratorybirds/pdf/management/nationwidestandardconservationmeasures.pdf>

Migratory Birds FAQ

Tell me more about conservation measures I can implement to avoid or minimize impacts to migratory birds.

[Nationwide Conservation Measures](#) describes measures that can help avoid and minimize impacts to all birds at any location year round. Implementation of these measures is particularly important when birds are most likely to occur in the project area. When birds may be breeding in the area, identifying the locations of any active nests and avoiding their destruction is a very helpful impact minimization measure. To see when birds are most likely to occur and be breeding in your project area, view the Probability of Presence Summary. [Additional measures](#) or [permits](#) may be advisable depending on the type of activity you are conducting and the type of infrastructure or bird species present on your project site.

What does IPaC use to generate the migratory birds potentially occurring in my specified location?

The Migratory Bird Resource List is comprised of USFWS [Birds of Conservation Concern \(BCC\)](#) and other species that may warrant special attention in your project location.

The migratory bird list generated for your project is derived from data provided by the [Avian Knowledge Network \(AKN\)](#). The AKN data is based on a growing collection of [survey, banding, and citizen science datasets](#) and is queried and filtered to return a list of those birds reported as occurring in the 10km grid cell(s) which your project intersects, and that have been identified as warranting special attention because they are a BCC species in that area, an eagle ([Eagle Act](#) requirements may apply), or a species that has a particular vulnerability to offshore activities or development.

Again, the Migratory Bird Resource list includes only a subset of birds that may occur in your project area. It is not representative of all birds that may occur in your project area. To get a list of all birds potentially present in your project area, please visit the [AKN Phenology Tool](#).

What does IPaC use to generate the probability of presence graphs for the migratory birds potentially occurring in my specified location?

The probability of presence graphs associated with your migratory bird list are based on data provided by the [Avian Knowledge Network \(AKN\)](#). This data is derived from a growing collection of [survey, banding, and citizen science datasets](#).

Probability of presence data is continuously being updated as new and better information becomes available. To learn more about how the probability of presence graphs are produced and how to interpret them, go to the Probability of Presence Summary and then click on the "Tell me about these graphs" link.

How do I know if a bird is breeding, wintering, migrating or present year-round in my project area?

To see what part of a particular bird's range your project area falls within (i.e. breeding, wintering, migrating or year-round), you may refer to the following resources: [The Cornell Lab of Ornithology All About Birds Bird Guide](#), or (if you are unsuccessful in locating the bird of interest there), the [Cornell Lab of Ornithology Neotropical Birds guide](#). If a bird on your migratory bird species list has a breeding season associated with it, if that bird does occur in your project area, there may be nests present at some point within the timeframe specified. If "Breeds elsewhere" is indicated, then the bird likely does not breed in your project area.

What are the levels of concern for migratory birds?

Migratory birds delivered through IPaC fall into the following distinct categories of concern:

1. "BCC Rangewide" birds are [Birds of Conservation Concern](#) (BCC) that are of concern throughout their range anywhere within the USA (including Hawaii, the Pacific Islands, Puerto Rico, and the Virgin Islands);
 2. "BCC - BCR" birds are BCCs that are of concern only in particular Bird Conservation Regions (BCRs) in the continental USA; and
 3. "Non-BCC - Vulnerable" birds are not BCC species in your project area, but appear on your list either because of the [Eagle Act](#) requirements (for eagles) or (for non-eagles) potential susceptibilities in offshore areas from certain types of development or activities (e.g. offshore energy development or longline fishing).
-

Although it is important to try to avoid and minimize impacts to all birds, efforts should be made, in particular, to avoid and minimize impacts to the birds on this list, especially eagles and BCC species of rangewide concern. For more information on conservation measures you can implement to help avoid and minimize migratory bird impacts and requirements for eagles, please see the FAQs for these topics.

Details about birds that are potentially affected by offshore projects

For additional details about the relative occurrence and abundance of both individual bird species and groups of bird species within your project area off the Atlantic Coast, please visit the [Northeast Ocean Data Portal](#). The Portal also offers data and information about other taxa besides birds that may be helpful to you in your project review. Alternately, you may download the bird model results files underlying the portal maps through the [NOAA NCCOS Integrative Statistical Modeling and Predictive Mapping of Marine Bird Distributions and Abundance on the Atlantic Outer Continental Shelf](#) project webpage.

Bird tracking data can also provide additional details about occurrence and habitat use throughout the year, including migration. Models relying on survey data may not include this information. For additional information on marine bird tracking data, see the [Diving Bird Study](#) and the [nanotag studies](#) or contact [Caleb Spiegel](#) or [Pam Loring](#).

What if I have eagles on my list?

If your project has the potential to disturb or kill eagles, you may need to [obtain a permit](#) to avoid violating the Eagle Act should such impacts occur.

Proper Interpretation and Use of Your Migratory Bird Report

The migratory bird list generated is not a list of all birds in your project area, only a subset of birds of priority concern. To learn more about how your list is generated, and see options for identifying what other birds may be in your project area, please see the FAQ "What does IPaC use to generate the migratory birds potentially occurring in my specified location". Please be aware this report provides the "probability of presence" of birds within the 10 km grid cell(s) that overlap your project; not your exact project footprint. On the graphs provided, please also look carefully at the survey effort (indicated by the black vertical bar) and for the existence of the "no data" indicator (a red horizontal bar). A high survey effort is the key component. If the survey effort is high, then the probability of presence score can be viewed as more dependable. In contrast, a low survey effort bar or no data bar means a lack of data and, therefore, a lack of certainty about presence of the species. This list is not perfect; it is simply a starting point for identifying what birds of concern have the potential to be in your project area, when they might be there, and if they might be breeding (which means nests might be present). The list helps you know what to look for to confirm presence, and helps guide you in knowing when to implement conservation measures to avoid or minimize potential impacts from your project activities, should presence be confirmed. To learn more about conservation measures, visit the FAQ "Tell me about conservation measures I can implement to avoid or minimize impacts to migratory birds" at the bottom of your migratory bird trust resources page.

Wetlands

Impacts to [NWI wetlands](#) and other aquatic habitats may be subject to regulation under Section 404 of the Clean Water Act, or other State/Federal statutes.

For more information please contact the Regulatory Program of the local [U.S. Army Corps of Engineers District](#).

Please note that the NWI data being shown may be out of date. We are currently working to update our NWI data set. We recommend you verify these results with a site visit to determine the actual extent of wetlands on site.

WETLAND INFORMATION WAS NOT AVAILABLE WHEN THIS SPECIES LIST WAS GENERATED. PLEASE VISIT [HTTPS://WWW.FWS.GOV/WETLANDS/DATA/MAPPER.HTML](https://www.fws.gov/wetlands/data/mapper.html) OR CONTACT THE FIELD OFFICE FOR FURTHER INFORMATION.

Appendix F

Research Documentation



HISTORICAL AERIALS

Project Property: Proposed Multifamily
Development
Chocolate Drive
Sun Valley NV 89433

Project No: 21-198

Requested By: Arkose Environmental, Inc.

Order No: 21102800172

Date Completed: November 02,2021

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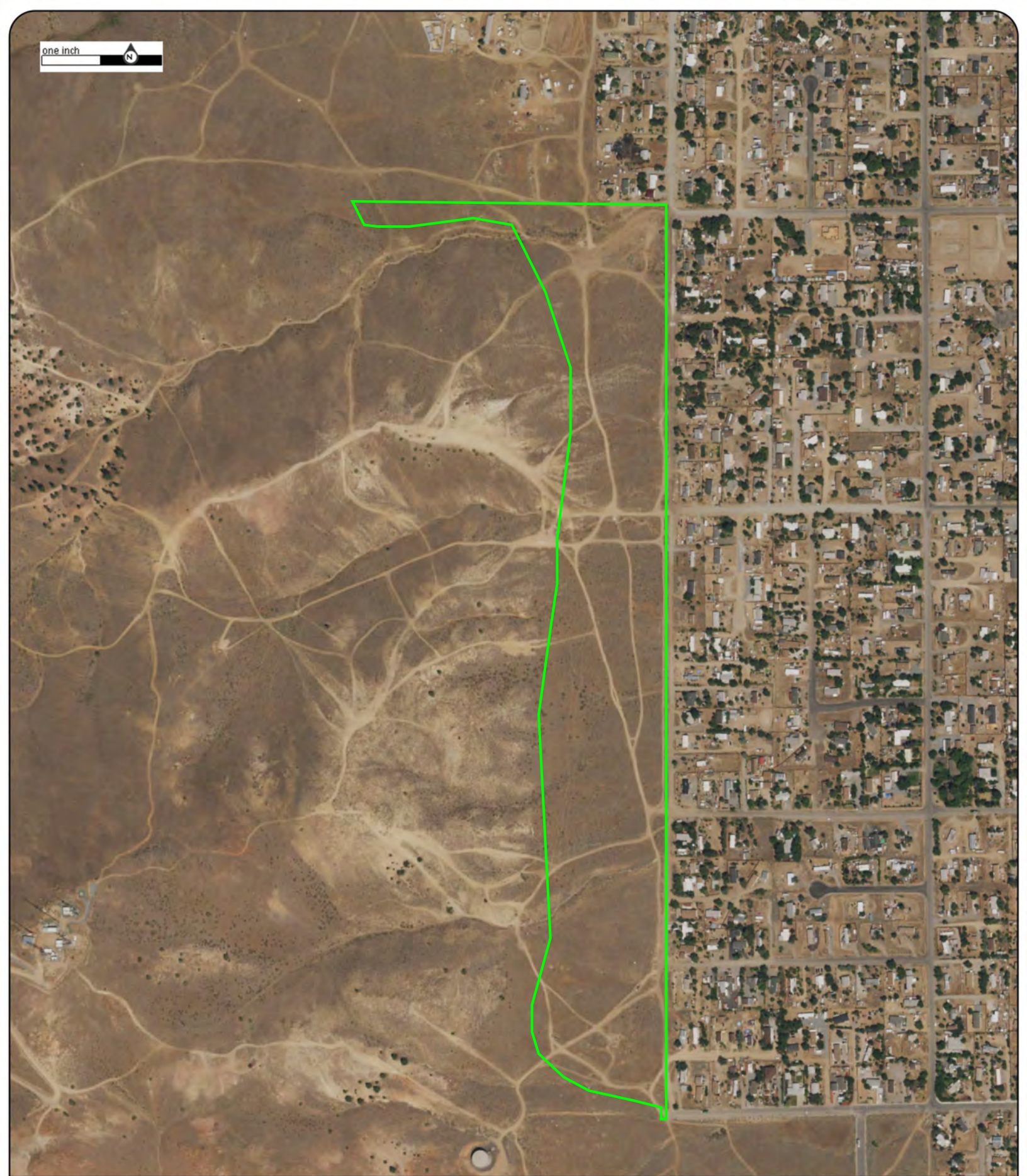
Date	Source	Scale	Comments
2019	United States Departments of Agriculture	1" = 500'	
2017	United States Departments of Agriculture	1" = 500'	
2015	United States Departments of Agriculture	1" = 500'	
2013	United States Departments of Agriculture	1" = 500'	
2010	United States Departments of Agriculture	1" = 500'	
2006	United States Departments of Agriculture	1" = 500'	
1999	United States Geological Survey	1" = 500'	
1994	United States Geological Survey	1" = 500'	
1987	National Aeronautics And Space Admin	1" = 500'	
1980	United States Geological Survey	1" = 500'	
1974	United States Geological Survey	1" = 500'	
1973	United States Geological Survey	1" = 500'	
1966	United States Geological Survey	1" = 500'	
1956	Army Mapping Service	1" = 500'	Best Copy Available
1953	United States Bureau of Reclamation	1" = 500'	
1946	United States Geological Survey	1" = 500'	

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one inch



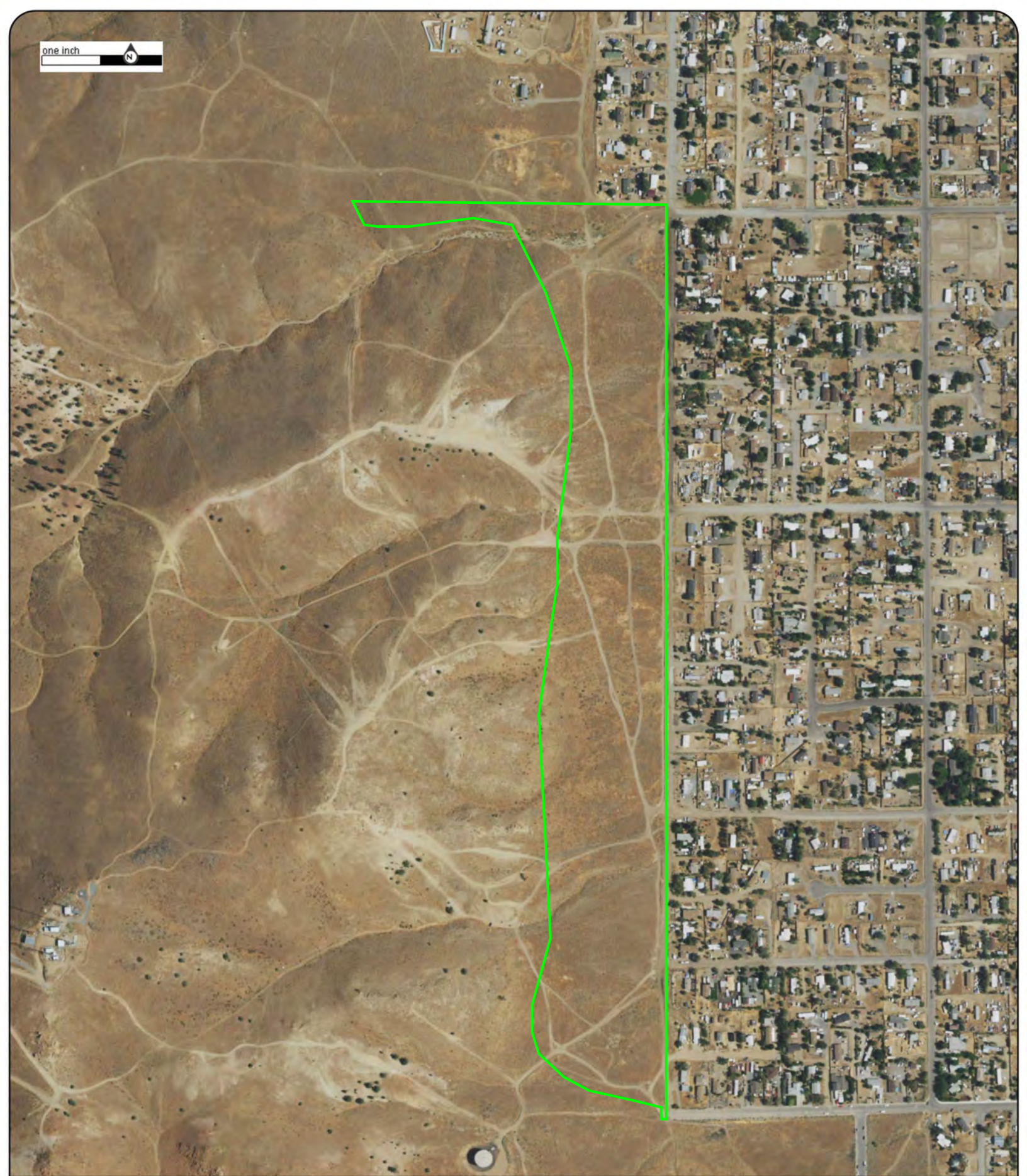
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Address: Chocolate Drive, Sun Valley, NV
Approx Center: -119.79029241,39.58746769

Order No: 21102800172



one inch



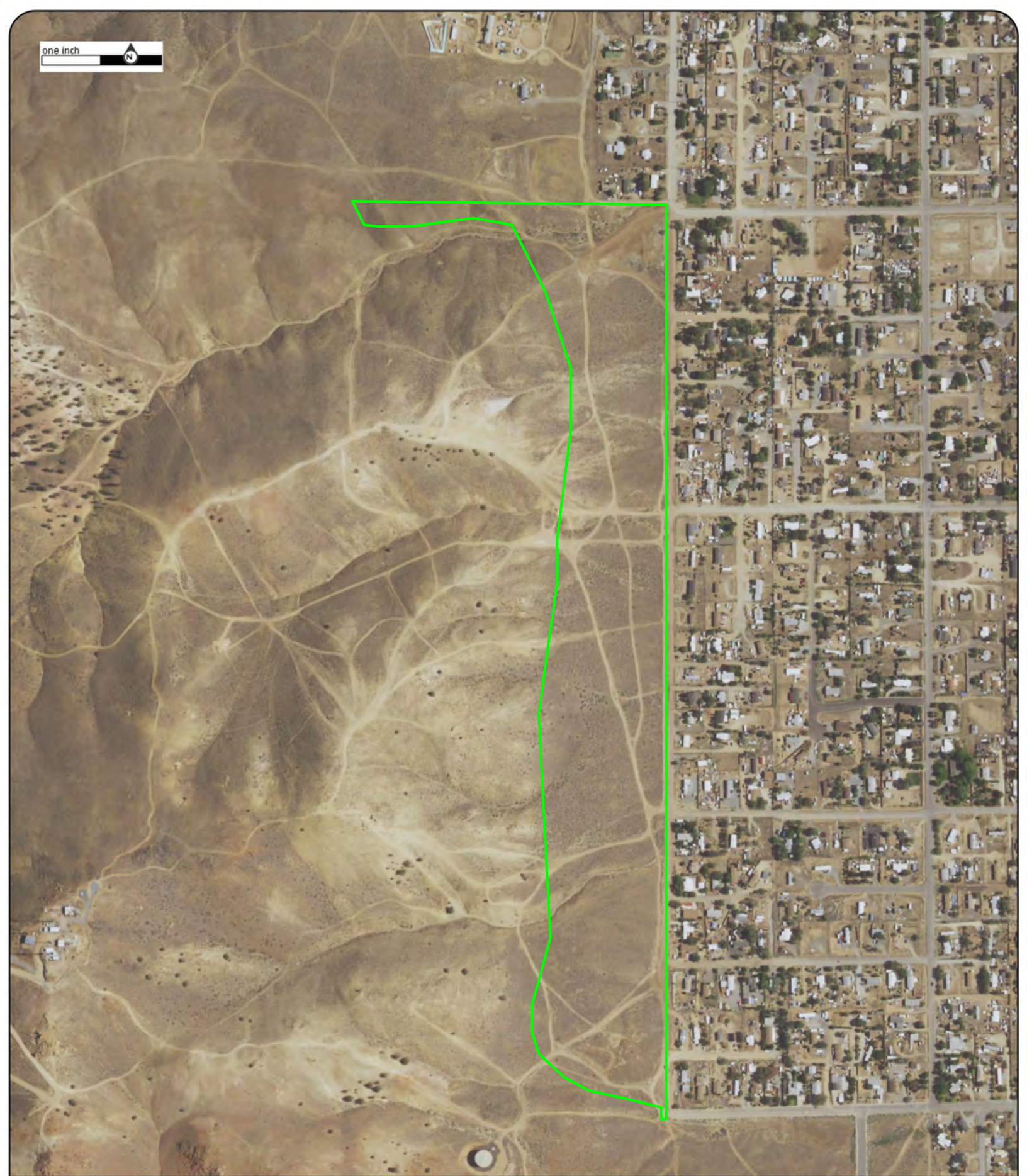
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Approx Center: -119.79029241,39.58746769

Order No: 21102800172



one inch



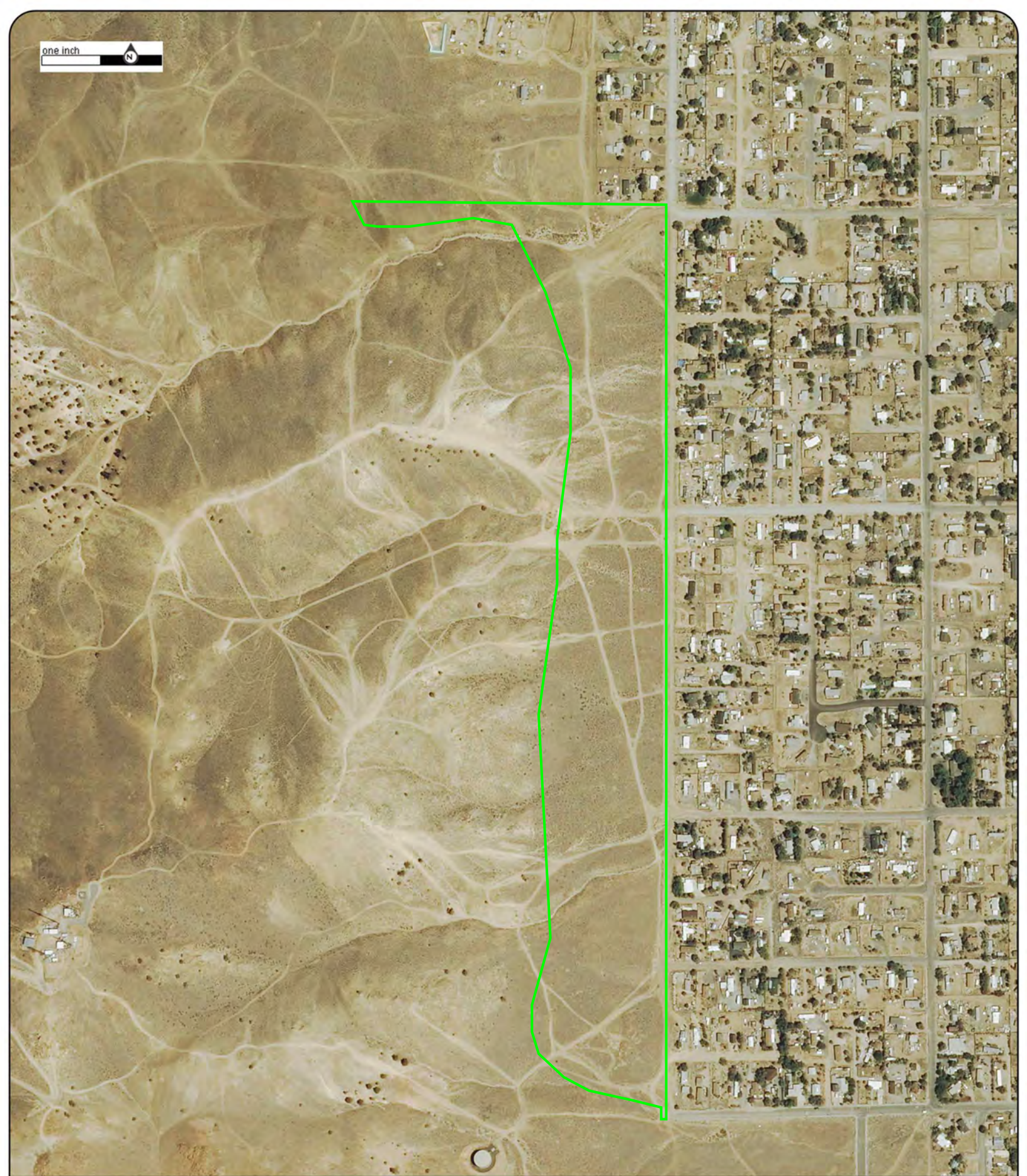
Year: 2015
Source: USDA
Scale: 1" = 500'
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Approx Center: -119.79029241,39.58746769

Order No: 21102800172



one inch



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

Address: Chocolate Drive, Sun Valley, NV
Approx Center: -119.79029241,39.58746769

Order No: 21102800172



one inch



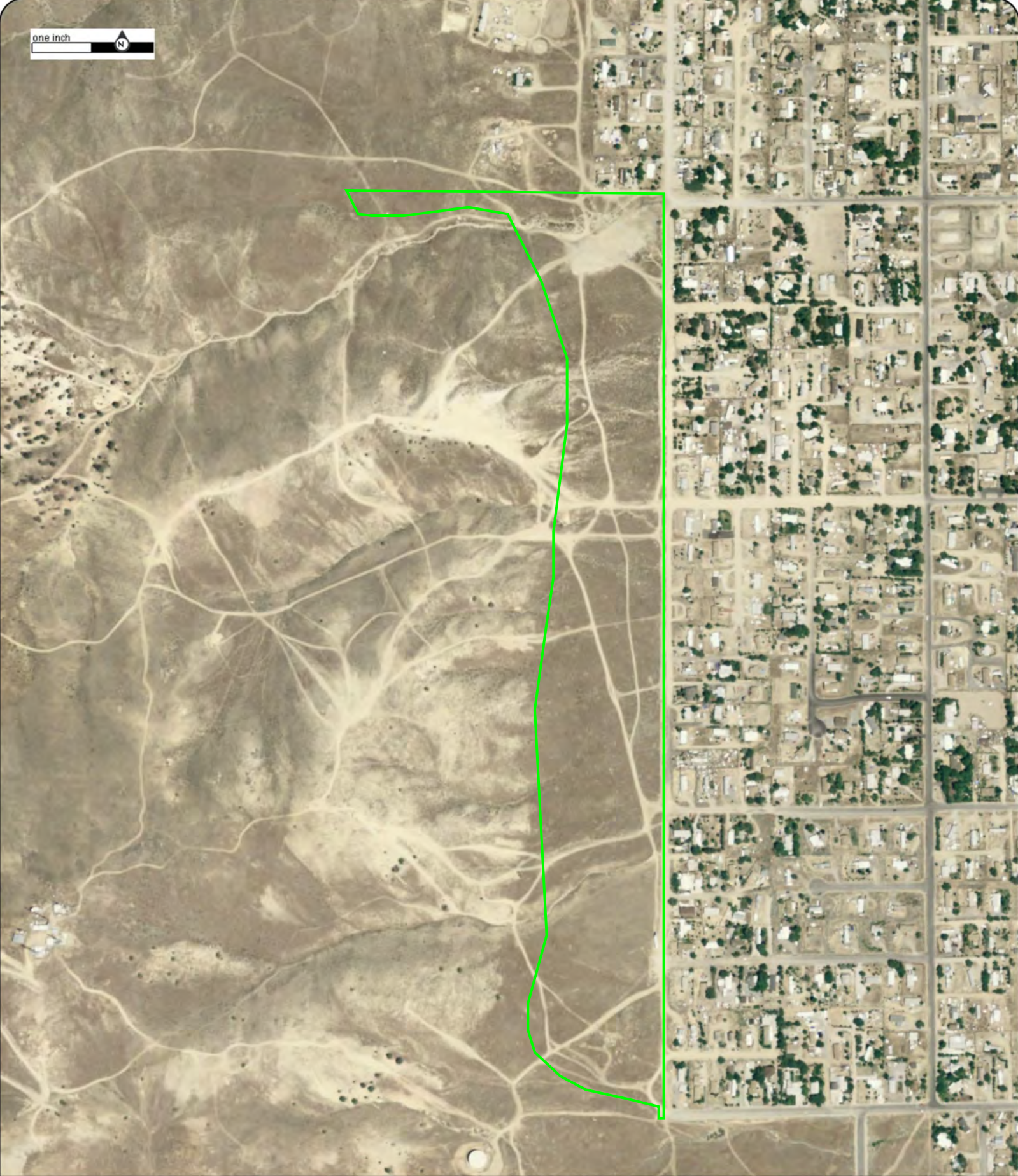
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Source: USDA
Scale: 1" = 500'
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Address: Chocolate Drive, Sun Valley, NV
Approx Center: -119.79029241,39.58746769

Order No: 21102800172



one inch



Year: 2006
Source: USDA
Scale: 1" = 500'
Comment:

Address: Chocolate Drive, Sun Valley, NV
Approx Center: -119.79029241,39.58746769

Order No: 21102800172



one inch



Year: 1999
Source: USGS
Scale: 1" = 500'
Comment:

Address: Chocolate Drive, Sun Valley, NV
Approx Center: -119.79029241,39.58746769

Order No: 21102800172



one inch



Year: 1994
Source: USGS
Scale: 1" = 500'
Comment:

Address: Chocolate Drive, Sun Valley, NV
Approx Center: -119.79029241,39.58746769

Order No: 21102800172



one inch



Year: 1987
Source: NASA
Scale: 1" = 500'
Comment:

Address: Chocolate Drive, Sun Valley, NV
Approx Center: -119.79029241,39.58746769

Order No: 21102800172



one inch



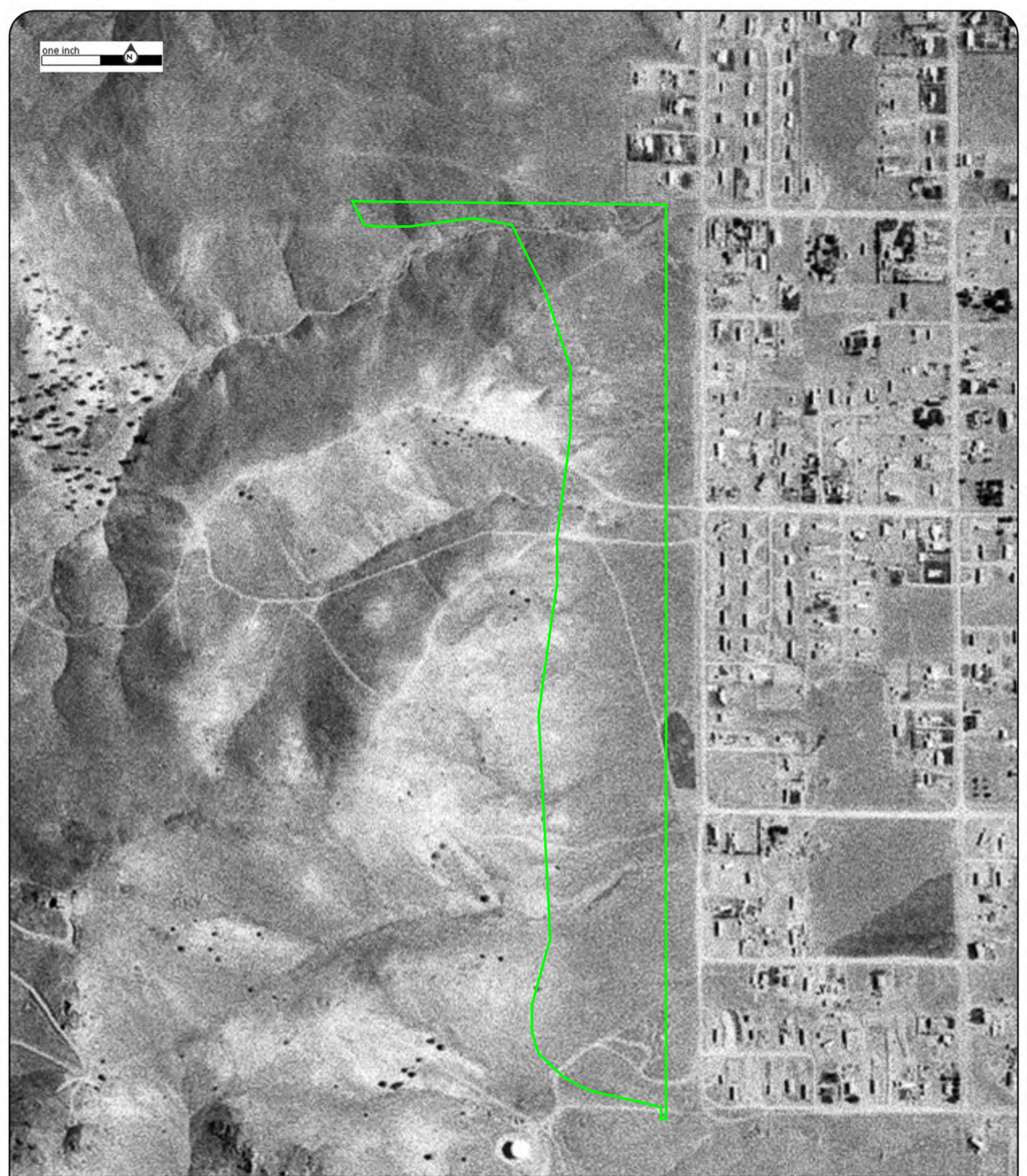
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Source: USGS
Scale: 1" = 500'
Comment:

Address: Chocolate Drive, Sun Valley, NV
Approx Center: -119.79029241,39.58746769

Order No: 21102800172



one inch



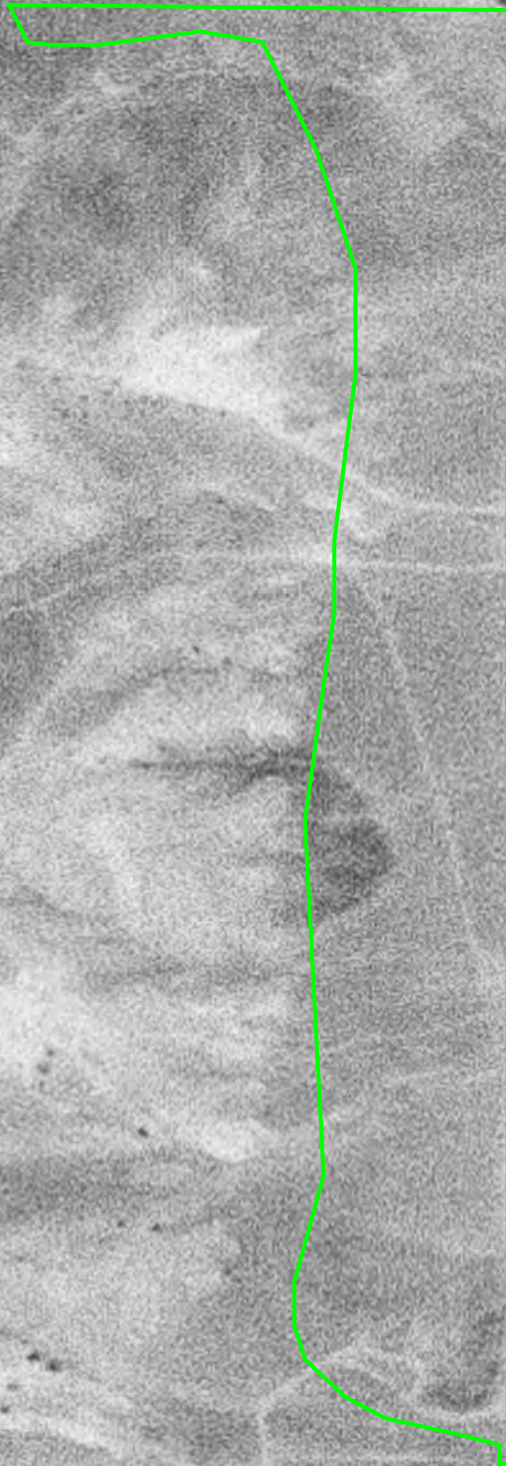
Year: 1974
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Approx Center: -119.79029241,39.58746769

Order No: 21102800172



one inch



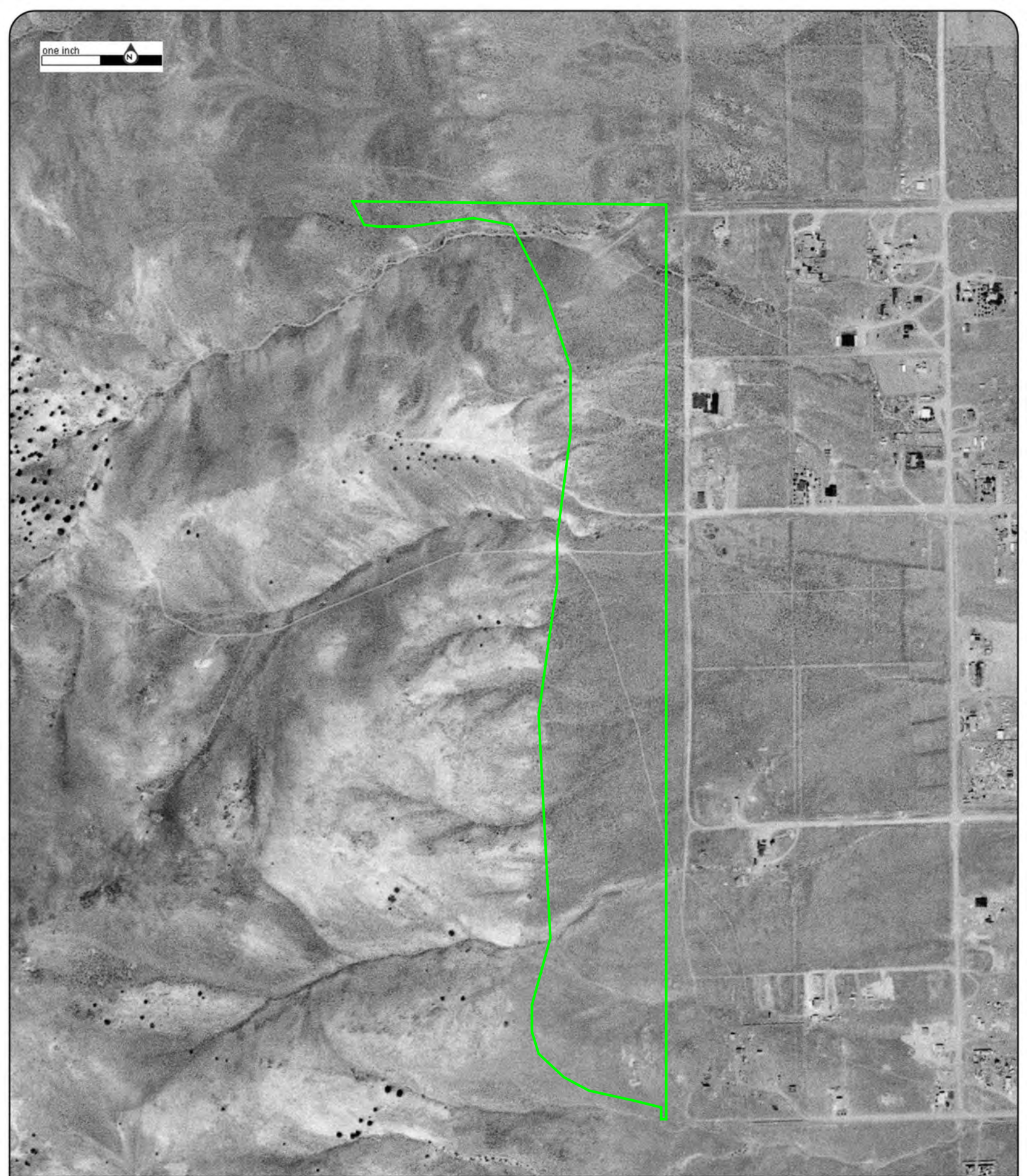
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Approx Center: -119.79029241,39.58746769

Order No: 21102800172



one inch



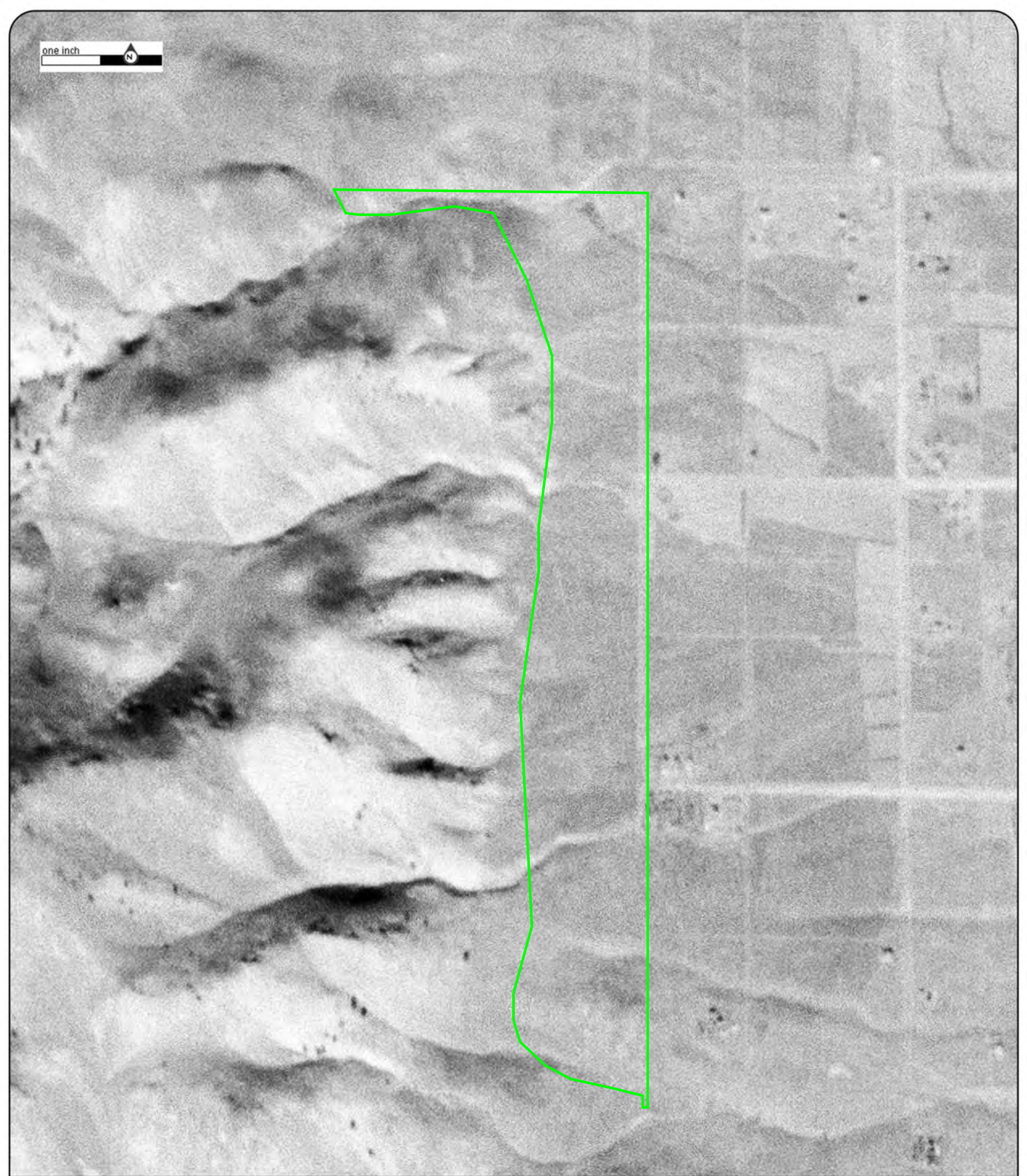
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Approx Center: -119.79029241,39.58746769

Order No: 21102800172



one inch



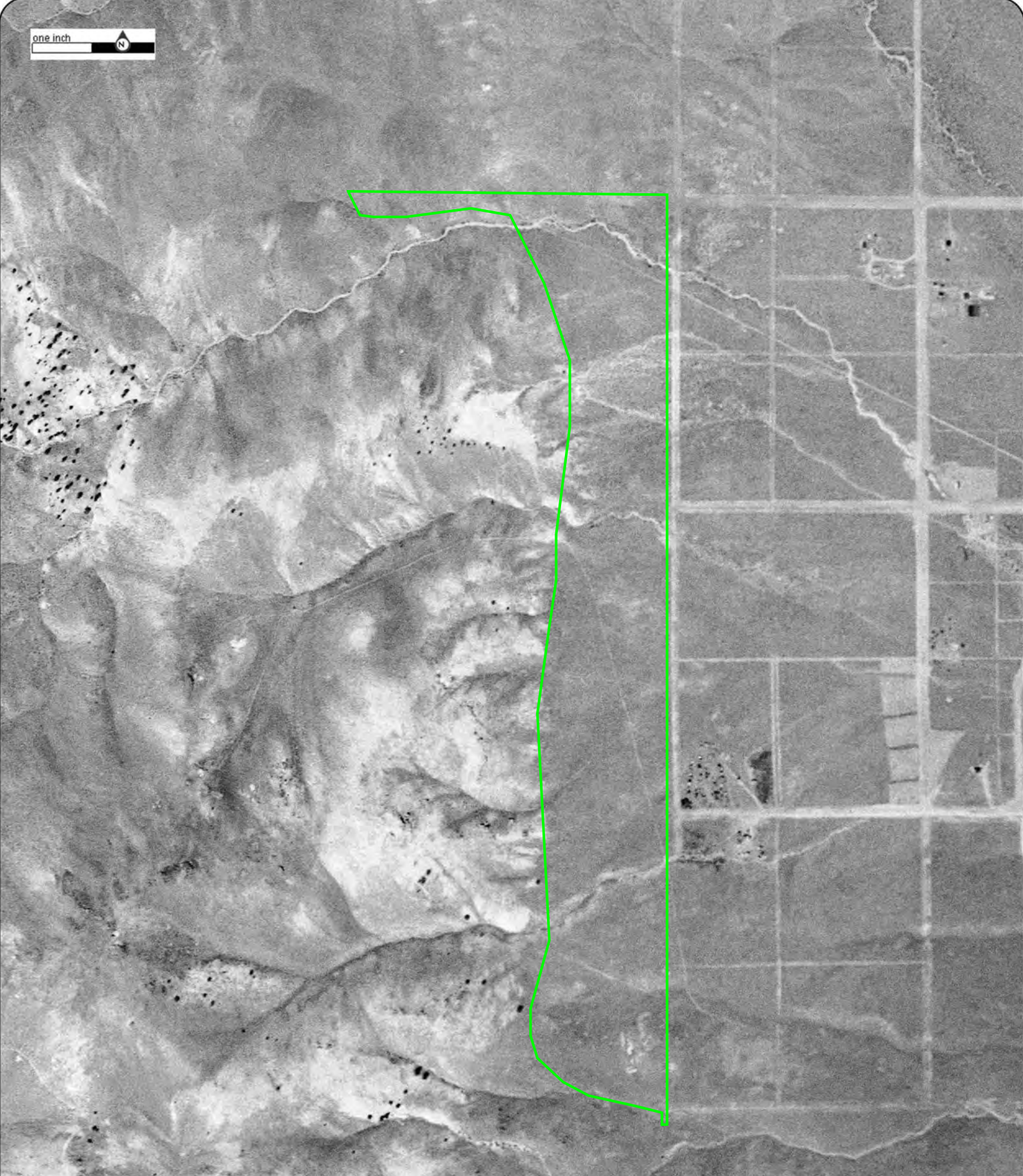
Year: 1956
Source: AMS
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Address: Chocolate Drive, Sun Valley, NV
Approx Center: -119.79029241,39.58746769

Order No: 21102800172



one inch



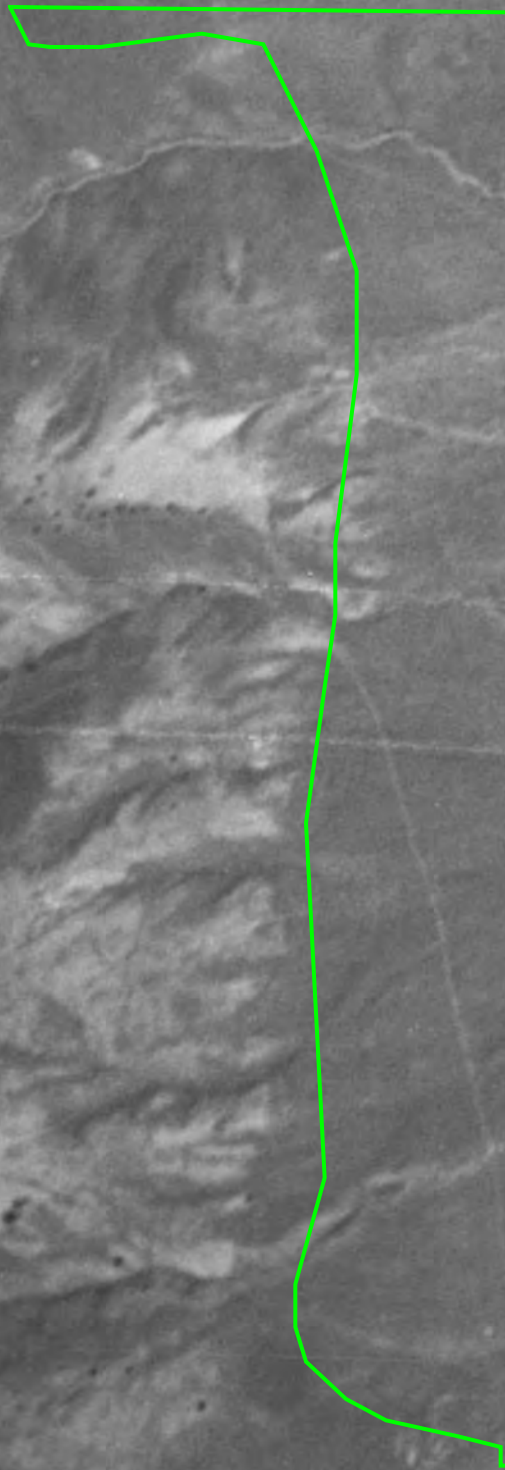
Year: 1953
Source: USBR
Scale: 1" = 500'
Comment:

Address: Chocolate Drive, Sun Valley, NV
Approx Center: -119.79029241,39.58746769

Order No: 21102800172



one inch



Year: 1946
Source: USGS
Scale: 1" = 500'
Comment:

Address: Chocolate Drive, Sun Valley, NV
Approx Center: -119.79029241,39.58746769

Order No: 21102800172





TOPOGRAPHIC MAPS

Project Property: Proposed Multifamily Development
Chocolate Drive
Sun Valley NV 89433

Project No: 21-198

Requested By: Arkose Environmental, Inc.

Order No: 21102800172

Date Completed: October 29, 2021

We have searched USGS collections of current topographic maps and historical topographic maps for the project property. Below is a list of maps found for the project property and adjacent area. Maps are from 7.5 and 15 minute topographic map series, if available.

Year	Map Series
2015	7.5
1982	7.5
1974	7.5
1967	7.5
1951	15
1950	15

Topographic Map Symbology for the maps may be available in the following documents:

Pre-1947

[Page 223 of 1918 Topographic Instructions](#)

[Page 130 of 1928 Topographic Instructions](#)

1947-2009

[Topographic Map Symbols](#)

2009-present

[US Topo Map Symbols](#)

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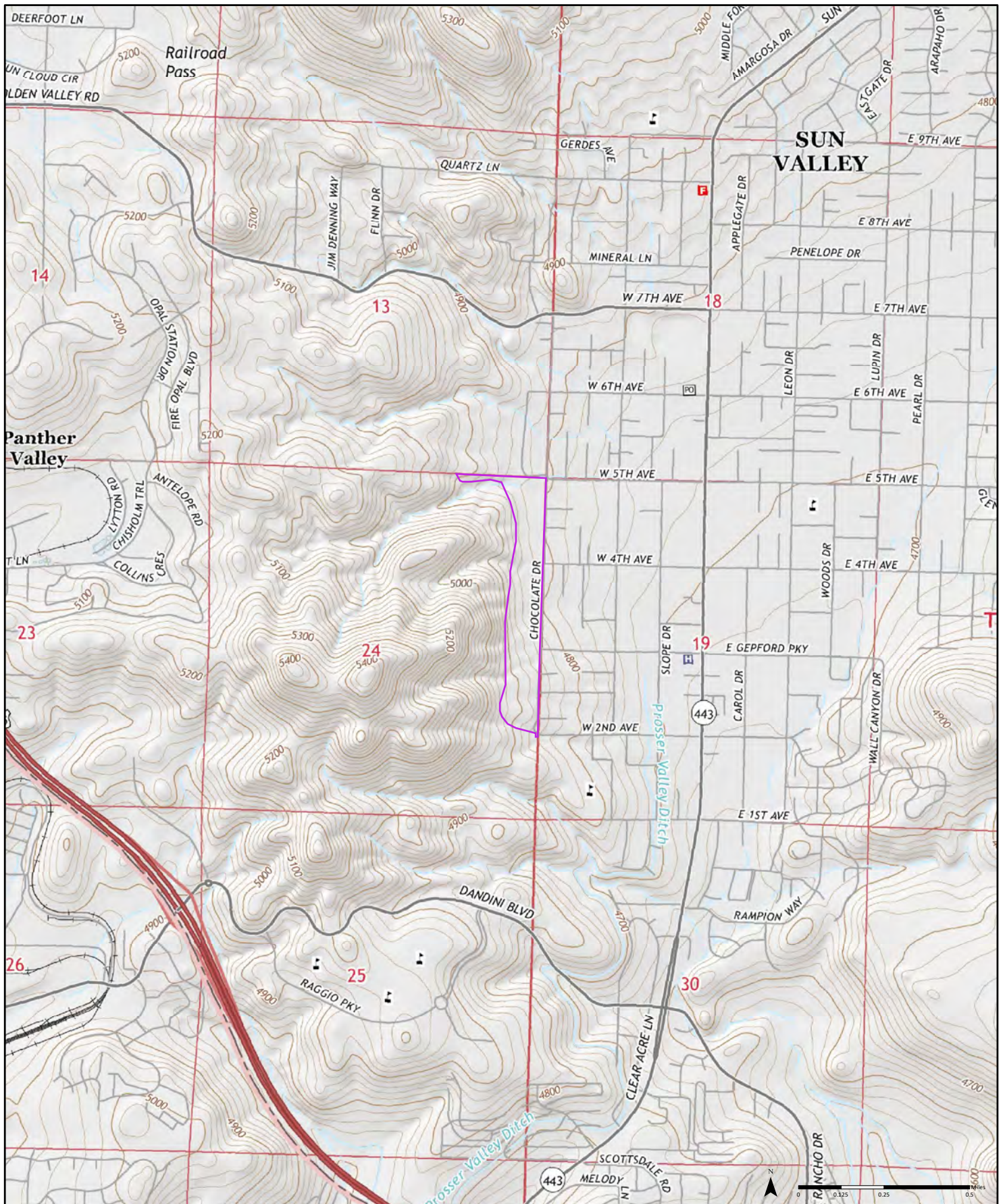
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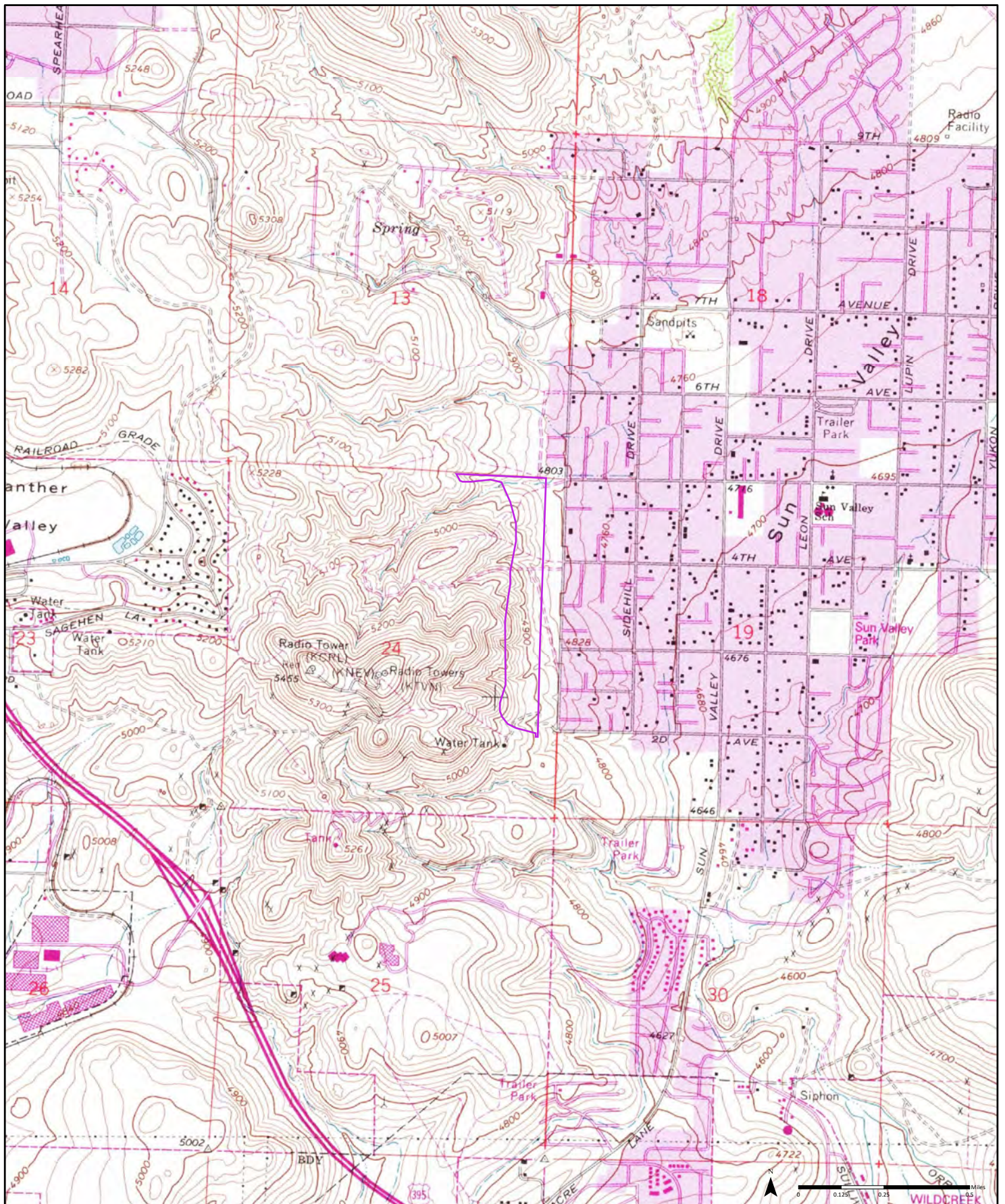
2015

Quadrangle(s): Reno, NV

Order No. 21102800172

Source: USGS 7.5 Minute Topographic Map





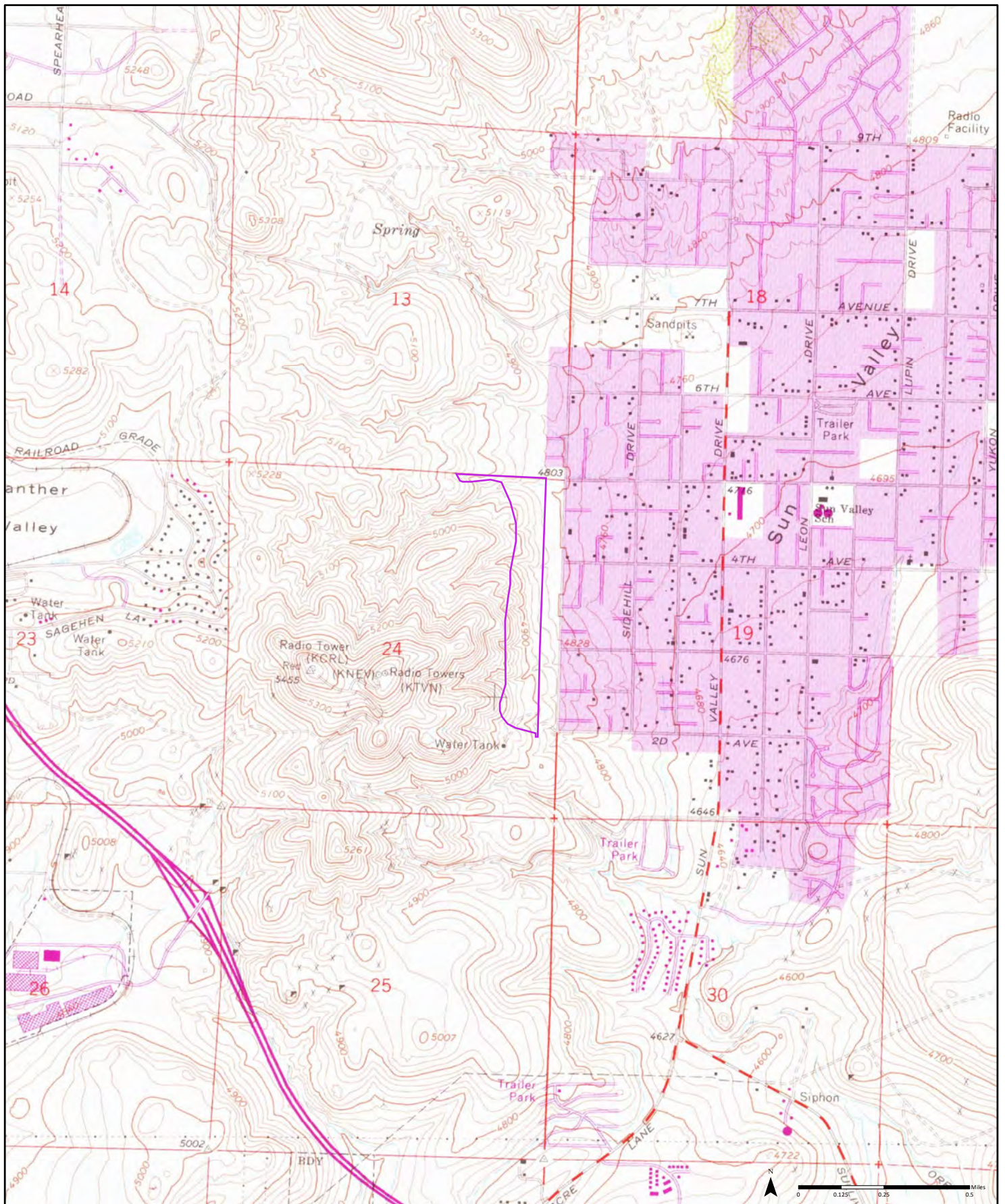
1982 ⁽¹⁾ Aerial Photo Year: 1978
 Photo Revision Year: 1982

Quadrangle(s): Reno, NV(1)

Order No. 21102800172

Source: USGS 7.5 Minute Topographic Map





1974

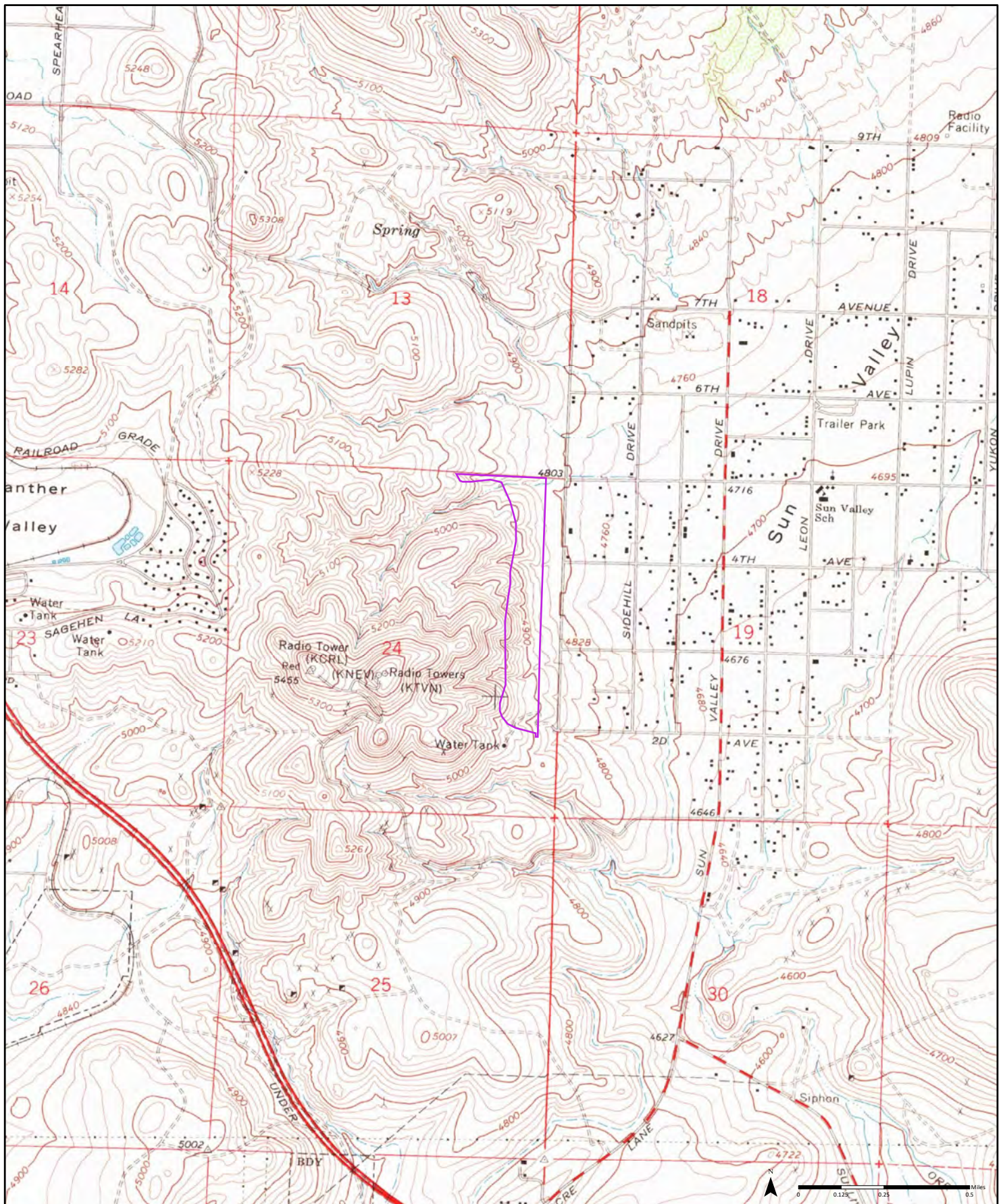
⁽¹⁾ Aerial Photo Year: 1974
Photo Revision Year: 1974

Quadrangle(s): Reno, NV⁽¹⁾

Order No. 21102800172

Source: USGS 7.5 Minute Topographic Map





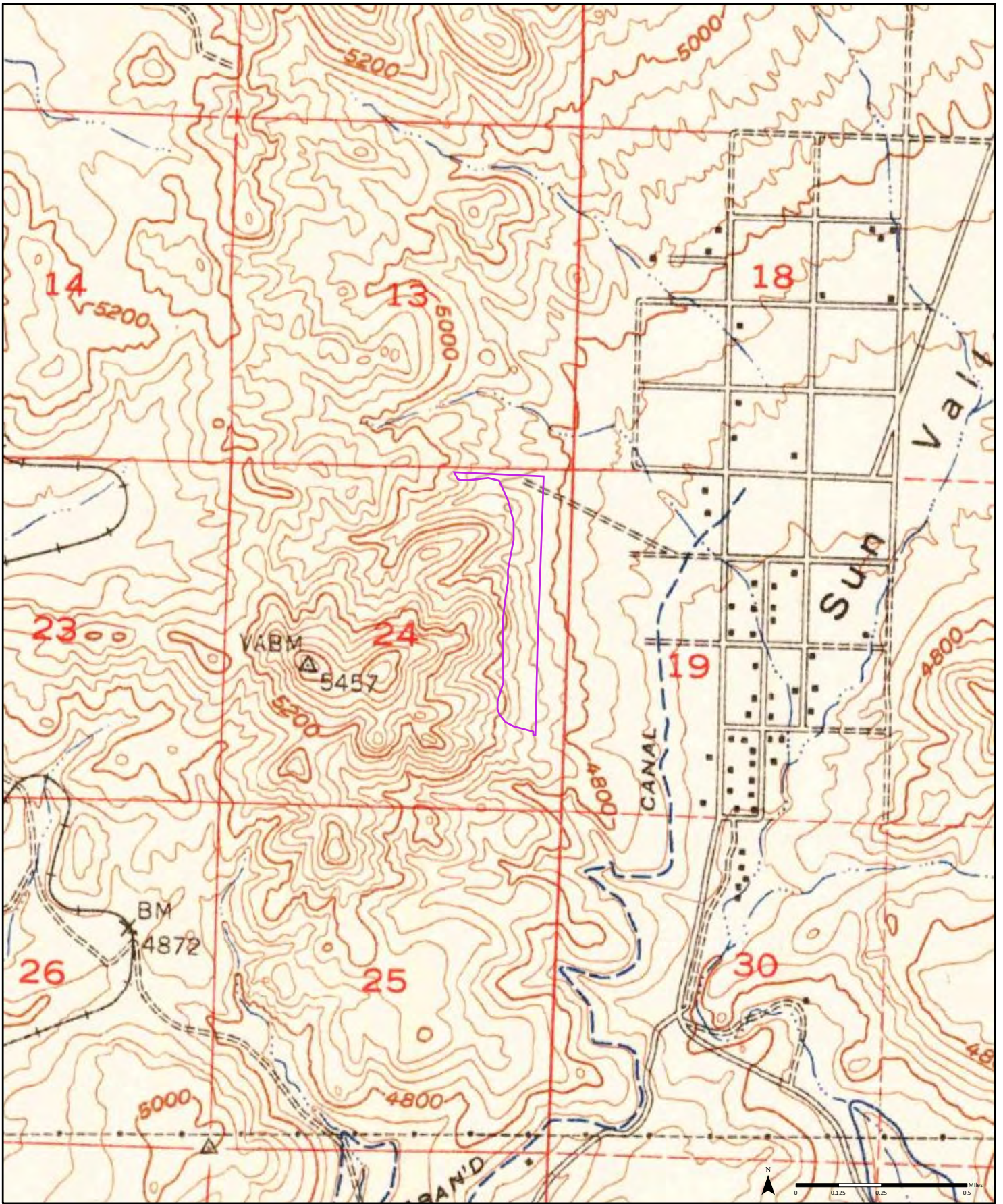
1967 ⁽¹⁾ Aerial Photo Year: 1966

Quadrangle(s): Reno, NV⁽¹⁾

Order No. 21102800172

Source: USGS 7.5 Minute Topographic Map





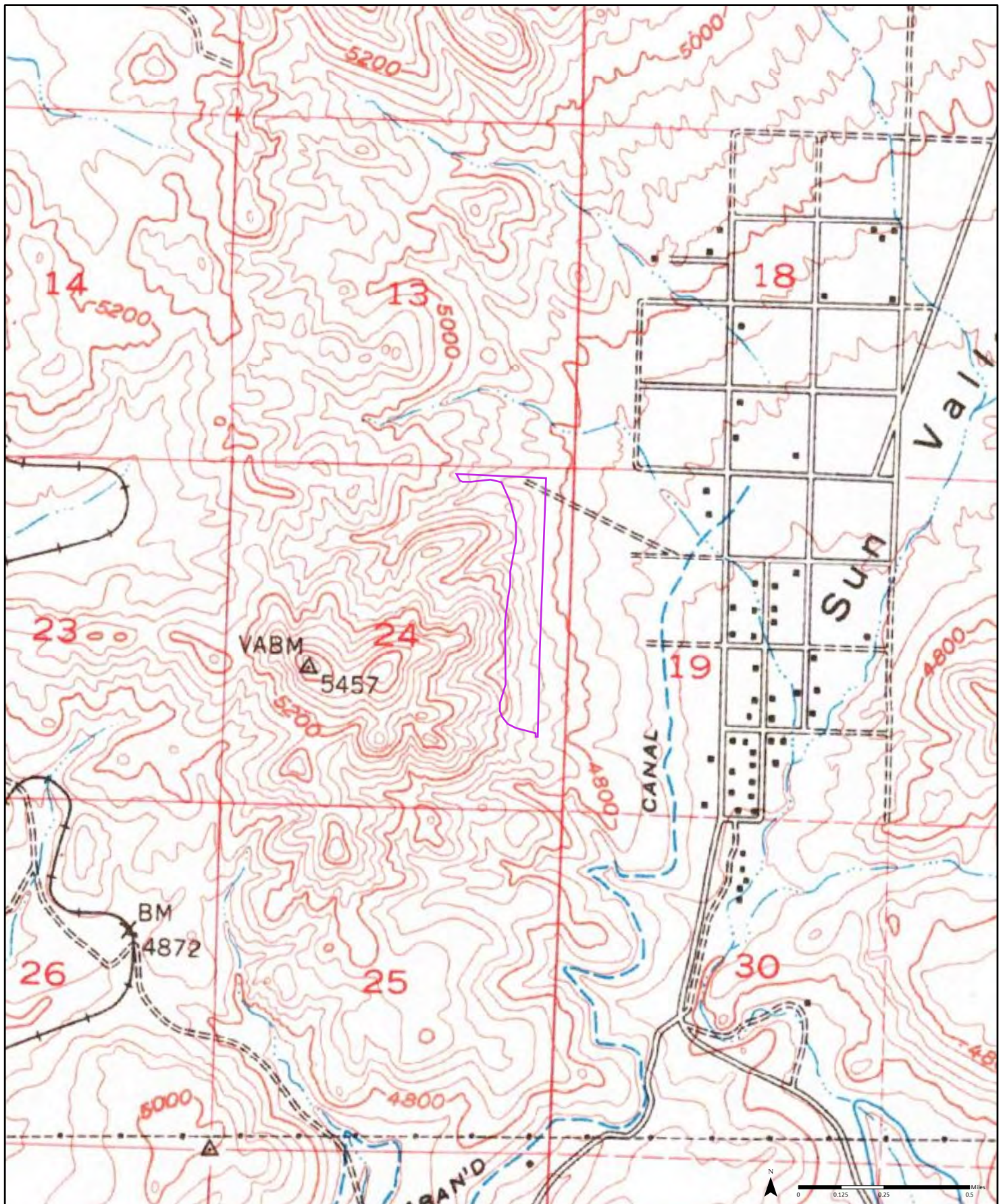
1951 ⁽¹⁾ Aerial Photo Year: 1946

Quadrangle(s): Reno, NV⁽¹⁾

Order No. 21102800172

Source: USGS 15 Minute Topographic Map





1950 ⁽¹⁾ Aerial Photo Year: 1946

Quadrangle(s): Reno, NV⁽¹⁾

Order No. 21102800172

Source: USGS 15 Minute Topographic Map





—
FIRE
INSURANCE
MAPS

Project Property: Proposed Multifamily Development
Chocolate Drive
Sun Valley NV 89433

Project No: 21-198

Requested By: Arkose Environmental, Inc.

Order No: 21102800172

Date Completed: October 28, 2021

Please note that no information was found for your site or adjacent properties.



CITY
DIRECTORY

Project Property: *Proposed Mul family Development
Chocolate Drive
Sun Valley, NV 89433*

Project No: *21-198*

Requested By: *Arkose Environmental, Inc.*

Order No: *21102800172*

Date Completed: *October 29, 2021*

October 29, 2021
RE: CITY DIRECTORY RESEARCH
Proposed Multi-family Development
Chocolate Drive Sun Valley, NV

Thank you for contacting ERIS for an City Directory Search for the site described above. Our staff has conducted a reverse listing City Directory search to determine prior occupants of the subject site and adjacent properties. We have provided the nearest addresses(s) when adjacent addresses are not listed. If we have searched a range of addresses, all addresses in that range found in the Directory are included.

Note: Reverse Listing Directories generally are focused on more highly developed areas. Newly developed areas may be covered in the more recent years, but the older directories will tend to cover only the "central" parts of the city. To complete the search, we have either utilized the ACPL, Library of Congress, State Archives, and/or a regional library or history center as well as multiple digitized directories. These do not claim to be a complete collection of all reverse listing city directories produced.

ERIS has made every effort to provide accurate and complete information but shall not be held liable for missing, incomplete or inaccurate information. To complete this search we used the general range(s) below to search for relevant findings. If you believe there are additional addresses or streets that require searching please contact us at 866-517-5204.

Search Criteria:

5000 - 5700 of Chocolate Dr
100-500 of W 5th Ave

Search Results Summary

Date	Source	Comment
2020	DIGITAL BUSINESS DIRECTORY	
2016	DIGITAL BUSINESS DIRECTORY	
2012	DIGITAL BUSINESS DIRECTORY	
2008	DIGITAL BUSINESS DIRECTORY	
2004	DIGITAL BUSINESS DIRECTORY	
2000	DIGITAL BUSINESS DIRECTORY	
1997	POLKS	
1992	POLKS	
1989	POLKS	
1985	POLKS	
1981	POLKS	
1977	POLKS	

5605 JIM THE HANDY MAN...Handyman Services

115 JAMIES HANDYMAN...Handyman Services
190 VAN ALLEN PLUMBING...Heating Contractors
190 VAN ALLEN PLUMBING...Plumbing Contractors

5605 **JIM THE HANDY MAN...***Residential Remodelers*

190 **VAN ALLEN PLUMBING...***Plumbing Contractors*
190 **VAN ALLEN PLUMBING...***Variety Stores*

NO LISTING FOUND FOR THIS YEAR...

320

ATHERTON'S FAX & PRINTER RPR...*Facsimile-repairing*

5530 CHUCKS ACOUSTICAL TILE CLEAN...*Bld Maintenance Svs*
 5530 CHUCKS ACOUSTICAL TILE CLEAN...*Ceiling Cleaning*

320 ATHERTONS FAX & PRINTER REPAIR...*Electrical Repair Whol Office Equipment*
 320 ATHERTONS FAX & PRINTER RPR...*Elc & Elcr Repair*
 320 ATHERTONS FAX & PRINTER RPR...*Copying & Duplicating Machines & Supls*

5530 CHUCK'S ACOUSTICAL TILE CLEAN...

320 ATHERTON'S FAX & PRINTER RPR...*Electrical Household Appliance Repair*

5530 CHUCK'S ACOUSTICAL TILE CLEAN...

NO LISTING FOUND FOR THIS YEAR...

CHOCOLATE DR (SV)		89433
0	5254 Wafor Curtis	-7920 C019 673-6466
0	5320 Barajas Ignacio	-7913 C019 673-0938
8	5340 Jones Carmon	-7913 C019 673-5215
1	Jones David	-7913 C019 673-5215
1	Medina Miguel	-7913 C019 674-6002
6	5346 Maldonado Jorge	-7913 C019 674-3862
9	5348 Godoy Alfredo	-7913 C019 673-4643
3	Godoy S	-7913 C019 674-2035
4	5350 Boltoncourt Stan	-7913 C019 673-1653
7	5354 Urias Cocifo	-7913 C019 674-3415
8	5420 Piorce Howard C	-7605 C019 673-0610
8	5428 Daniel Kenneth W	-7605 C019 673-5422
-	5440 Anderson Sharon	-7605 C019 673-8075
1	Brown Claudio A	-7605 C019 673-6075
-	5444 McAninch M	-7605 C019 673-2411
2	5505 Hausorman J	-7609 C019 674-2534
2	Jones C	-7609 C019 674-2534
8	5520 Murphy Dick	-7608 C019 673-4586
9	5553 Delsoldato Paul	-7609 C019 673-4645
4	5575 Dougherty James P	-7609 C019 673-1205
-	5595 Westfall Bobby Sr	-7609 C019 673-0402
1	5605 McMullin James J	-7317 C019 673-0948
-	5610 Hosford Clarence	-7316 C019 673-6497
0	Hosford Phyllis	-7316 C019 673-6497
4	5617 Evanson Lofand	-7317 C019 674-2885
2	5625 Canfield Joseph H	-7317 C019 673-2314
2	5630 Southwood Sydney	-7316 C019 673-1254
1	5637 Carrasco Doris	-7317 C019 673-9022
1	5645 Simonson Steve	-7317 C019 673-3376
7		
7		
3		
3		

HOUSEHOLDS 29

E CHOCTAW CT (SV) 89433

W 5TH AVE (SV)		89433
115	Lopez Guille	-7850 C019 874-0279
	McAdams Billy	-7850 C019 674-3836
	Nutter Bonnie	-7850 C019 673-1833
	Perna Mike	-7850 C019 873-1525
190	Dach Jessica	-7840 C019 874-3562
	Dach Kevin	-7840 C019 874-3562
365	Weiss David A	-7823 C019 873-5251
370	Jersey Marilyn	-7839 C019 873-4572
	Jersey Robert	-7839 C019 873-4572

HOUSEHOLDS 9

5TH ST (M) 89423

1604	Johnson Margaret	-4045 R001 782-2658
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CHOCATE CT -FROM CITADEL WAY
SOUTH 1 EAST OF WASHINGTON
ST

. ZIP CODE 89503

CHOCOLATE DR (SUN VALLEY)
FROM 385 W 2D AV NORTH

. ZIP CODE 89433

. LOSTER WAY INTERSECTS
. BROWNLEE LA INTERSECTS

5240* Leyer Mark E & Penny J @
673-9617

5296 Not Verified
5294 Wayfer Curtis & Ethel M @
673-6466

. FLINTSTONE CIR INTERSECTS
5290 Fred Larry L @

5270 Lavelle Martin R & Amy L @
673-6121

Trines Gary G 673-6121
5290 Bosley Genevieve @

. W GEFORD PKWY INTERSECTS
5300 Not Verified

5310 Vacant
5320 Not Verified

5324 Vacant
5328 Reynolds @

5330 Not Verified
5334 Vacant

5340 534a Not Verified (2 Hses)
5346 Falcon Jovier A & Adeline R @

673-4272
5348 Godoy Alfredo P & Teresa B @
673-4643

5350 Bettencourt Stanley @+ @ 673-1653
5354 Grady A T @

5360 5380 Not Verified (3 Hses)
5380 Dawson Dianna P @

. W 4TH AV INTERSECTS
5420 Pierce Howard C & Hazel @+ @

673-0610
Pierce James W 673-0610

5428 Not Verified
5436 Davis Dana E @ 673-1722

5440 Brown Claude A @ 673-6075
Brown Gallant C 673-6075

Anderson Michl K 673-6075
Anderson Sharon L 673-6075

. MAGGIE CIR INTERSECTS
5444 Mc Aninch Margaret @ 673-2411

5450 Bondickson Kenneth & Glenda @
673-6284

. QUID LA INTERSECTS
5478 Vacant

5478 Lambert Hildegard @+ @ 673-9428
5480 Ward Terry A @ 673-3356

Ward Virginia B 673-3356
. W 5TH AV INTERSECTS

5500 Vacant
5505* Hawkins Roger & Linda @

673-3556
5510 Sherwood Jas & Shirleen M @ @

673-6650
5520 Murphy Dick & Jody @ @

673-4586
5530 Abney Don R @

5540 Mrkaich Ruth @+ @ 673-0747
Looker Dean C 673-0747

5545* Kain David 673-1084
5547 Not Verified

5549 Klink Doug & Dina @+ @ 673-0582
5550 Lehnens Carl @+ @

5551 Sulezich Greg F & Cheryl @ @
673-0924

5553 Del Soldato Paul & Ladonna @ @
673-4645

Del Soldato Sherry 673-4645
Del Soldato Gail 673-4645

5555-5565 Not Verified (2 Hses)
5575 Dougherty James P & Chris L @+ @

673-1205
5585 Not Verified

. GRAND MASTER CIR INTERSECTS
5591-5593 Not Verified (2 Hses)

5595 Mc Cage J R & Cheryl D @ @
673-1642

5597 Troutman Leslie @
5599 Not Verified

. W 6TH AV INTERSECTS
5600 Bert V M @+ @ 673-2571

5605 Not Verified
5610 Hosford Clarence E & Phyllis A @

673-6497
Hosford Phyllis A 673-6497

5615 Igrut Michle @
Slone Robin E

5617 Evenson Leland @ 674-2885
5619-5620 Not Verified (2 Hses)

5623 Casey Bill H & Antonia M @
673-3209

5625 Canfield Joseph H & Karen Y @
673-2314

Canfield Karen Y 673-2314
5629 Palmer Michael T @ 673-0520

5630 Southwood Sydney W @+ @ 673-1254
5637 Not Verified

5645 Simonson Steve @ @ 673-3376
5653 Not Verified

5655 Dougherty Robt L @+ @ 673-3198

5675 Not Verified
. W 7TH AV INTERSECTS

58 HOUSEHOLDS

CHOLLAR CIR (SPARKS)-FROM
2959 LIDA LA NORTHWEST

. ZIP CODE 89431

3010* Wood Kathy @ 626-7139
Wood James 626-7139

3017 Rehard Connie I @ 355-7388
3020 Not Verified

3027* Wharton R L 626-3383
3030 Clark Donald F & Rhonda J @ @

626-9208
3037* Murphy A B 331-1075
3040* Derenco T M 358-2385

3047* Semas O
3050* Bybee Richd W & Donna K @

3057* Elcano J P
3060 Pace Paul S & Jeannie E @ @

626-8909
3067 Collier Dianne E @+ @
12 HOUSEHOLDS

CHORN LA (SUN VALLEY)-FROM
538 E 7TH AV NORTH

. ZIP CODE 89433

5700 Ellis Allan T & Helene L @+ @
673-9427

5701 Howell Vernon L & Diane L @+ @
673-3902

5706 Vacant
5707 Ponsock Albert A & Paula J @

673-3165
Ponsock Chris M 673-3165

5712 Vacant
5713 Powell Dan @ @

5718 Barnett Sam L @ 673-9657
5719-5724 Not Verified (2 Hses)

5725* Fackrell Francis L & Susan
673-9477

5730 Hostetler Barbara @
5731 Not Verified

5736* Kramer Tamara @
5737 Not Verified

5742 Winn Gerald L & Shirley S @ @
674-2627

5743 Not Verified
5748 Reynolds Sandy @

5749 Wood Patk F @ @
15 HOUSEHOLDS

CHRIS LA -FROM 3150 NEIL RD
EAST

. ZIP CODE 89502

1360* Blezak P n & Shirley
1362 Not Veri...

1370* Milt... D L 824 794
1374 Not Verified

1380 Vacant
1382* Evans Ju... 2361

1384-1411 Not Verified (2 Hses)
1423 Everett Dave W @ 826-2688

1425* Beck John E
8 HOUSEHOLDS

CHRISTOPHER CIR -FROM 1815
BALBOA DR WEST

. ZIP CODE 89503

3705 Petty C J @
3715 Klindera S K @

3720 Costanzo @
3725* Gallagher D V 747-3043

3730* Atkinson R W
3735 Gwaltney John W @ @ 746-1113

Gwaltney Haley K 746-1113
3740 Not Verified

3745 Peterson Bill @
3750 Peevers Alfred J & Viola A @+ @

747-5577
3755 Lubke Joel & Susan @

3760 Taylor Lyle & Nancy J @ @
746-2926

3765 Bart James D & Shirlee D @+ @
747-2827

3770 Cornelius @
3775 Frederickson Marvin E & Helen @+ @

747-2858
14 HOUSEHOLDS

CHRISTY WY -FROM 5176 BLK
ROSS DR SOUTH

. ZIP CODE 89509

4110 Goodman Philip H @ @
4125 Batcabe George & Carolyn @ @

747-6199
4145 Hoover E B @+ @ 747-1680

4165 Gallagher Thos H & Bonnie @ @
4185 Benoit Dick @+ @ 747-0683

4195 Cuptl Ed R & Cathy @ @ 747-6079
. PLATEAU RD INTERSECTS

4200 Markwell Terry S & Christiane B @+ @
747-4284

4210* Evans M M 747-6269

541 S. Rock Blvd., Sparks
(702) 829-3131 FAX (702) 829-1472

5TH AV W (SUN VALLEY)-FROM
5490 SUN VALLEY DR WEST

. ZIP CODE 89433

110 Not Verified
115 TRAILS WEST mobile home park

1 Not Verified
2 Loyd Danny A & Pamala A @ @

2 Chavez Ernest
3 Wallis Blake D @ @

4 Not Verified
5 Gross James @

6-115 Not Verified (2 Apts)
8 Davies Donna M @ @

9 Pritz Linda @
10 Nunley Palma E @ @ 673-6352

11-115 Not Verified (3 Apts)
14 Schafer Russel E @ @ 673-1833

15* Perna Michl 673-1525
16 Manzo Martin H @ @

120 Vacant
130 Champion Mike & Carol @+ @

673-3366
140 Sjemucha Fred E @

145 Vacant
150 Not Verified

160 Whitney Donald L @ @ 673-2983
Pfennic Laura 673-2983

. HIGHLINE CT INTERSECTS
190 Not Verified

. SLOPE DR INTERSECTS
195 Not Verified

. GENTLE DR INTERSECTS
200* Crowder Steve R

250 Menne Henry & Ada @+ @ 673-1161
258 Baiz Marcia @

264 Not Verified
295 Gaines Lenward E @ 673-5981

315 Chaney Eve F @ @ 673-2562
318 Not Verified

320 Vacant
322-345 Not Verified (2 Hses)

350 Farmer Harlen L @
. WESTHILL CT INTERSECTS

365 Weiss David A & Merilee L @+ @
673-5251

370 Jersey Robt & Marilyn A @+ @
673-4572

380-390 Not Verified (4 Hses)
398 Kramer Phillip @

. CORINA CIR INTERSECTS
. CHOCOLATE DR INTERSECTS

33 HOUSEHOLDS
1 BUSINESS

5TH ST (SPARKS)-FROM 504 B ST
NORTH

**CHOCOLATE DR (SUN VALLEY)
FROM 385 W 2D AV NORTH**

ZIP CODE 89433

LOSTER WAY INTERSECTS

BROWNLEE LA INTERSECTS

5240★Layer Mark E © 673-9617

5246 Van Den Bulke Geo G ©

5254 Wayfer Curtis ©

FLINTSTONE CIR INTERSECTS

5260★Fried Larry L 673-2431

5270 Lavelle Martin R © 673-6121

5290 Bosley Genevieve ©

W GEPFORD PKWY INTERSECTS

5300 No Return

5310 Vacant

5316★Daly Tony J © 673-5717

5320 Egnaceo Bragas 673-4909

5324 Vacant

5328 Reynolds

73 5330 No Return

5334 Vacant

5340 No Return

534a No Return

5346★Falco Jovier 673-4272

5348 Godoy Alfredo P © 673-4643

5350 Bettencourt Stanley 673-1653

5354★Grady A T

5360 No Return

5370 No Return

5380★Waite Loyd 673-1079

5390★Dawson Ken T © 673-4280

23

4

108

W 4TH AV INTERSECTS

5420 Pierce Howard C 673-0610

5428 No Return

5436 Wolf D E 673-4066

5440★Brown Claude

MAGGIE CIR INTERSECTS

5444★Mc Aninch Howard Jr

5450★Bendickson Kenneth © 673-6284

QUID LA INTERSECTS

5476 No Return

5478 Lambert H S © 673-9428

5480 Ward Terry A ©

W 5TH AV INTERSECTS

5500★Bouyea John

5505★Holliday L 673-3556

5510 Sherwood Jas © 673-6650

5520 Murphy Dick © 673-4586

5530 Kosydar J Antoni 673-1472

5540 Mrkaich Ruth ©

5545★Kaitt David 673-1084

5547 Sterling H R ©

5549 Klink Doug © 673-0592

5550 Lehnars Carl ©

5551 Sulezich Greg F © 673-0924

CHOCOLATE DR (SV)-Contd

5553 Del Soldato Jose

5555 Wainscott A

5565 Bloxham Edgar 673-9766

5575 Dougherty James P © 673-1205

5585 No Return

GRAND MASTER CIR INTERSECTS

5591 Herzberg John

5593 No Return

5595 Mc Cage J R 673-1642

5597 No Return

5599 Cloutier Jeff 673-1840

W 6TH AV INTERSECTS

5600 Bert V M 673-2571

5605 Mc Mullin Jas J 673-0946

5610 Hosford Clarence E 673-6487

5615★Perez Ray R © 673-2933

5617 Vacant

5619★Alkcosky Chuck

5620 No Return

5623 No Return

5625 Vacant

5629 No Return

5630 Southwood Sydney W © 673-1254

5637 No Return

5645 Simonson Steve 673-3376

5653 Wadkins

5655 Dougherty Robt L © 673-3198

5661 No Return

5675 Owen Roo ©

5685 No Return

W 7TH AV INTERSECTS

SPARKS
MAY 1989

**CHOLLAR CIR (SPARKS)-FROM
2959 LIDA LA NORTHWEST**

184

**5TH AV W (SUN VALLEY)-FROM
5490 SUN VALLEY DR WEST**
108

ZIP CODE 89433

110 No Return

115 Trails West mobile home park
Spaces

1 Perna Michl 673-1525

2 No Return

3 Griffin Katherine 673-4604

4 No Return

5 James Michl 673-3441

6 No Return

7★Mosier Keith L © 673-6486

8 Baber Michl © 673-4038

9 Pritz Linda 673-0294

10 Nunley Palma E 673-6352

11 Penny David F © 673-1606

12 Neuharth C L 673-2018

13 Young Peggy Mrs

14★Nutter Bonnie

15 No Return

16 No Return

120 Vacant

130 Champion Mike 673-3366

145 No Return

160★Whitney D E

HIGHLINE CT INTERSECTS

190 Meyer Michl G © 673-2859

SLOPE DR INTERSECTS

195 Williams Rick © 673-5666

GENTLE DR INTERSECTS

200 Rueb Steven 673-5001

250 Menne Henry © 673-1161

264 No Return

270 No Return

295 Gaines Lenward E 673-5981

320★Montgomery Dennis

350 Faraci Charles © 673-3565

WESTHILL CT INTERSECTS

365 Weiss David A © 673-5251

370 Jersey Robt © 673-4572

CORINA CIR INTERSECTS

CHOCOLATE DR INTERSECTS

**5TH ST (SPARKS)-FROM 504 B ST
NORTH**
64

100

**CHOCOLATE DR (SUN VALLEY)
FROM 385 W 2D AV NORTH**

ZIP CODE 89431
 LOSTER WAY INTERSECTS
 BROWNLEE LA INTERSECTS
 5240 Gustafson Robin © 673-1536
 5246 Van Den Bulke Geo G ©
 5254 Wafer Curtis © 673-6466
 5260 No Return
 5270 Sutherland Thomas G 673-1060
 5290 Bosley Ivan K © 673-3174
 W GEPFORD PKWY INTERSECTS
 5316 Harding John W © 673-4080
 5320 Vacant
 5324★Barnes Harold
 5328 Banning Jim F

—
173
RT
E

5330 No Return
 5340 Brown John F Jr ©
 5346 Vacant
 5348★Godoy Alfredo P © 673-4343
 5350 Bettencourt Stanley 673-1653
 5354 Vacant
 5360 Schaaf
 5370 White Terry © 673-6971
 5380 Vacant
 5390★Cleek Diana © 673-4200
 W 4TH AV INTERSECTS

108

—
23
4

W 4TH AV INTERSECTS
 5420 Pierce Howard 673-0610
 5428★Johnson M K
 5436 Wolf D E 673-4066
 5440 No Return
 5444 Mc Aninch Howard L © 673-2411
 5450 Tyler Mary Mrs ©
 QUID LA INTERSECTS
 5476★Burton Gary R
 5478 Lambert H S © 673-9428
 5480 Ward Terry A ©
 W 5TH AV INTERSECTS
 5500 Easter Damon 673-0912
 5505 Workman Don L © 673-2761
 5510 Stoltz Darryl ©
 5520 Decarlo Art ©
 5530 Kosydar J Antoni 673-1472
 5540 Mrkaich Ruth ©
 5545 No Return
 5547 Sterling H R ©
 5549 Klink Doug © 673-0592
 5550 Lehnars Carl ©
 5551 Hamilton Cheryl
 5553 No Return
 5555 No Return
 5565 Florey Dennis 673-5036
 5573 No Return
 5575 Dougherty James P © 673-1205
 5585 Le Bard Nancy Mrs ©
 5595 Patterson H Mrs
 5597★Flood Rick 673-2277
 5599 Cloutier Jeff 673-1840
 W 6TH AV INTERSECTS
 5600 Bert V M 673-2571
 5610★Hosford Clarence
 5615 Taylor Bernadine M Mrs © 673-1810
 5620 Thomas Kenny 673-6669
 5625 Vacant
 5630 Southwood Sidney W © 673-1254
 5655 Dougherty Robt L © 673-3198
 W 7TH AV INTERSECTS

100

184

**CHOLLAR CIR (SPARKS)—FROM 2959
LIDA LA NORTHWEST**

108

5TH AV W (SUN VALLEY)—FROM
5490 SUN VALLEY DR WEST

ZIP CODE 89431

115 Trails West mobile home park

Spaces

1★James Michl 673-2226

2 Vacant

3 Griffin Katherine 673-4604

4 Lannon Victoria Mrs

5 Vacant

6 Vacant

7 Ross Bob

8 Baber Michl © 673-4038

9 Rowden Dallas W 673-2966

10 Duncan Harriet 673-6086

11 Penny David 673-1606

12 Henderson Charlene J 673-5797

13 Young Peggy Mrs

14 Radspinner Gary

15★Felker Irene J Mrs 673-5600

16 Dyzolet Jessie

120 No Return

130 Champion Mike 673-3366

145 No Return

160★Sienucha Fred © 673-4566

HIGHLINE CT INTERSECTS

190 No Return

SLOPE DR INTERSECTS

195 Williams Rick 673-5666

GENTLE DR INTERSECTS

200 Rueb Steven 673-5001

215 Nelson Martha © 673-4466

250 Menne Henry © 673-1161

258 Vacant

264 Ralls Michl 673-5822

270★Yanne Chas W 673-0970

295 No Return

320★Phillips Johnny © 673-2044

350 Charjean Kennels 673-2044

Faraci Charles © 673-2044

WESTHILL CT INTERSECTS

365 Weiss David A © 673-5251

370 Jersey Robt © 673-4572

CORINA CIR INTERSECTS

380 Jacaway Margt D Mrs © 673-3305

385 No Return

390 Mochel Marc © 673-4067

398 Del Soldato Paul G © 673-4645

CHOCOLATE DR INTERSECTS

64

5TH ST (SPARKS)—FROM 504 B ST
NORTH

93
CHISM ST —FROM W 2D ST SOUTH 4 WEST OF VINE ST
 ZIP CODE 89503
 108 Apartments
 1 Pearmann Paul 329-3414
 2*Pallaro Mario
 3*Blake Robt
 4 Moran Anna
 130 S & D Apartments 747-6495
 1*Henderson Robt
 2*Plummer Al
 3*Sylva Guy
 4*Edwards Sterve 786-6872
 5*Hassett Don
 6 Vacant
 7 Vacant
 8 Wehrman D A
 9*Briscoe J E
 10*Nimmes G I
 140 Tower Apartments 747-1990
 A*Madsen Marjorie 323-8919
 B*Autrey D W
 C*Pollock Alfred
 D*Leshinsky Geo
 E*Henton Richd C
 F Poya Ray
 2D ST INTERSECTS
 221 Southworth May 786-7887
 225 No Return
 235 Vacant
 241 Hart Frank E @ 322-1690
 250 Wickes Home Lumber & Supply Co 323-1307
 265*Crager Lloyd 329-6783

163
CHLORIS CIR (SPARKS)—FROM 1615 TRABERT WAY EAST
 ZIP CODE 89431
 1765 Wellons Marian E Mrs @ 358-9636
 1775 No Return
 1780 Hensley Doyle R @ 359-2965

170
CHOLLAR CIR (SPARKS)—FROM 2809 LIDA LA NORTHWEST
 ZIP CODE 89431
 3010*Anderson Kenneth @
 3017 Johnson Raymond I @ 359-8364
 3020 Carey Arth T @ 356-1608
 3027 Williams Randall W 358-1495
 3030 Quinlan Roger W 359-7493
 3037*Samuel Edw 359-6095
 3040 Digesti Laurence P @
 3047 Kaufman Glen D @ 358-3245
 3050*Kahn Michael
 3057 No Return
 3060 Humphreys Denis M @ 359-9475
 3067 Collier Dianne E Mrs @ 358-5582

111
CHOATE CT —FROM RALSTON ST SOUTH 1 EAST OF WASHINGTON ST
 ZIP CODE 89503

100
CHOCOLATE DR (SUN VALLEY) FROM W 2D AV NORTH 3 WEST OF SUN VALLEY DR
 ZIP CODE 89431
 5240*Bryan Thos J 673-1076
 5246 Van Der Bulke Geo G @ 673-1834
 5254 Wafer Curtis @ 673-2156
 5260 Dennis Robt
 5270 Sutherland Tom 673-1060
 5290 Bosley Ivan K @
 GEPFORD INTERSECTS
 5320 Vacant
 5324*Wooley Dennis L 673-3693
 5328*Banning Jim F 673-1839
 5330 Vacant
 5340 Brown John F Jr @
 5346 Lindsay G Irma @ 673-1669
 5348 Vigil Richd J @ 673-2507
 5350*Bettencourt Stan 673-1653
 5354*Godoy Alfredo P @ 673-4643
 5360*Keitner Steve 673-4617
 5370*White Terry

23
 5380 Vacant
 5390 Tatom Mark 673-1628
 W 4TH AV INTERSECTS
 5420 Moore David @
 5428 No Return
 5436 Wolf D E
 5440 Mc Donald Dennis L
 5444 Mc Aninch Howard L @ 673-2411
 5450 Nix Jerry @
 QUID LA INTERSECTS
 5476*Mills Chas 673-1563
 5478 Lambert Hildegard S @ 673-4323
 5480 Ward Terry A @
 W 5TH AV INTERSECTS
 5500 Fishel Richd R
 5505 Workman Don L @ 673-2761
 5510 Stoltz Darrel H @
 5520*Decarlo Art @ 673-1879
 5530 Kosydar J Antoni 673-1156
 5540 Mrkaich Ruth @ 673-3209
 5545 No Return
 5547 Sterling H R
 5549 Klink Doug @ 673-0592
 5550 Lehnars Carl @ 323-5768
 5553 Bill Josephine @ 673-3157
 5555 Vacant
 5565*Florey Mike
 5573*Blackwell Fern 673-1307
 5575 Dougherty James P @ 673-1205
 5585 No Return
 5595*Mc Cage Joy
 5597*Brennan Ola 673-6680
 W 6TH AV INTERSECTS
 5600*Bert V M 673-2571
 5610*Schwerin Chas 673-4921
 5615 Taylor Bernadine M Mrs @ 673-1819
 5620*Thomas Kenny
 5625 No Return
 5630 Southwood Sidney W @
 5655 Dougherty Robt L @ 673-3198
 W 7TH AV INTERSECTS

184
CHORN LA (SUN VALLEY)—FROM 530 E 7TH AV NORTH
 ZIP CODE 89431
 5700*Ellis Ted 673-9427
 5701 Howell Vernon L @ 673-3902
 5706 Kust James H @ 673-3839
 5707 No Return
 5712 Knobel Harold G
 5713*Dahl Karen
 5718*Chisholm James C 673-9657
 5719*Davidson Lawrence 673-9074
 5724 Blazing Thos @ 673-2301
 5725*Praskovich Dan W 673-1785

112
5TH AV W (SUN VALLEY)—FROM SUN VALLEY DR WEST 4 NORTH OF 1ST AV (NUMBERS IRREGULAR)
 ZIP CODE 89431
 115 Trails West 673-3135
 Spaces
 1 Sprague Leon 673-3135
 2 Baker Steve 673-4610
 3*Griffin Katherine
 4*Petuya Robt
 5 James Michl 673-2226
 6*Swindler Sony
 7 Bernard Jack
 8 Drake L Robt
 9 Rowden Dallas W 673-2966
 10 Browley Georgiana
 11 Penny David 673-1606
 12 Cochrane Cleo 673-2437
 13*Tobin Tom
 120*Erickson Paul 673-6687
 130 No Return
 145 No Return
 160 Sicmudia Fred @ 673-4566
 Whitney Kenneth 673-2983
 190 Shaw Robt @
 SLOPE DR INTERSECTS
 195*Williams Geo R
 GENTLE DR INTERSECTS
 200 Rueb Steven 673-5001
 215 Nelson Martha
 250 Menne Henry @ 673-1161
 258 Vacant
 264*Ralls Michl 673-5822
 270*Yahne Chas W 673-9443
 272 Vacant
 295 No Return
 320*Bales Larry
 350 Faraci Charles @ 673-2044
 365 No Return
 370 Jersey Robt @
 CORINA CIR INTERSECTS
 380 Jacoway Margt D Mrs @ 673-3305
 385 Armes Jeannie 673-6021
 390*Lunsford R A 673-5652
 398 Del Soldato Paul G 673-4645
 CHOCOLATE DR INTERSECTS

64
5TH ST (SPARKS)—FROM 504 B ST NORTH

786-1

SERVICE 501 EVANS AV.

RENO

100

CHOCOLATE DR (SUN VALLEY)
FROM W 2D AV NORTH 3 WEST OF
SUN VALLEY DR

ZIP CODE 89431

- 5240 Mc Elroy Richd A ©
- 5246 Van Der Bielke Geo G © 673-1834
- 5254 Enaley Dorothy E Mrs © 673-2150
- 5268 Phen Shwee Chin © 673-2895
- 5270 No Return
- 5290 Bosley Ivan K © 673-3174

GEPFORD INTERSECTS

- 5324 Boehning Arvin J © 673-1774
- 5328 Baca Tony © 673-3835
- 5330 Clark C
- 5340 Brown John F ©
- 5346★Lindsay G Irma © 673-1669
- 5348 Vigil Richd J © 673-2507
- 5354 Gotoy Alfredo P ©
- 5360 Campbell Gerry 673-1184

W 4TH AV INTERSECTS

- 5420 Wallace James R © 673-4226
- 5428★Rose R Mark
- 5436★Nellor Mike
- 5440 Cooper Ernest L 673-4717
- 5444 Mc Aninch Howard L ©
- 5450 Nix Roger © 673-4787

QUID LA INTERSECTS

- 5478 Lambert Etienne R © 673-3026
- 5480 Ward T A ©

W 5TH AV INTERSECTS

- 5500 Bolin Sandra 673-3727
- 5505 Workman Don L © 673-2761
- 5510 Stoltz Darrel H ©
- 5520 De Carlo Arth L © 673-1879
- 5530★Kosydar J Antoni 673-1156
- 5540 Mrkaich Ruth © 673-3209
- 5545 Grover Leslie T © 673-3454
- 5547 Sterling H R 673-2009
- 5549 Grover Donald C © 673-3341
- 5550 Lehnars Carl ©
- 5553★Bill Josephine © 673-3157
- 5555 Billino Peter J © 673-3160
- 5565 Florey Dennis L © 673-3998
- 5575 Dougherty Ann Mrs © 673-1205
- 5585 Le Bard L Nancy
- 5595 Vacant (5595-5597)

W 6TH AV INTERSECTS

- 5615 Taylor James M © 673-1810
- 5630 Carson Geo L © 673-1957
- 5655 Dougherty Robt L © 673-3198

106

CHORN LA (SUN VALLEY)—FROM
530 E 7TH AV NORTH

- 6 Young Mable Mrs © 673-2831
- 7 Sevitta Noaln A
- 8 Shorn Rita
- 9 Vacant
- 10★Marchart C Patricia © 673-2831
- 11 Vacant
- 12 Doyle Anne © 673-3654
- 13 Grady Don ©
- 115★Kimble Kenneth D 673-4301
- LACY LA INTERSECTS
- 125★Acree W Charles 673-4194
- 137 Cresman
- 145 Bracy R C 673-1233
- 153★Gibson A Lorraine © 673-4548
- 155 Mann Randall W 673-4135
- 157 Thompson Walt
- 159 Early James ©
- 161 Coslow Daniel F © 673-4664
- 165 Coslow Geo I © 673-2454
- 175 Wilson Gerald

- BOOMERANG CIR INTERSECTS
- LANI CIRCLE INTERSECTS
- 195 No Return
- LEON DR INTERSECTS
- 200 Saint Peter Canisius Catholic Church
- 230 Scollard Harold J © 673-2129
- WOODS DR INTERSECTS
- 250 No Return
- 250 Perkins John
- 270★Masklay Johnny G
- 290 Dorf R

- LUPIN DR INTERSECTS
- 310 Sawyer Ray © 673-2028
- 315 Snyder James V
- 320★Land J Betty
- 375 Nemitz Ted E © 673-1915
- 380 Alexander Alma Mrs © 673-3118
- 385★Scott Francis E © 673-1418
- 390 Bingham Jan
- 395 Rollins Michl © 673-3989
- PEARL DR INTERSECTS
- 400 Warren E B 673-1787
- 410 Mc Clelland Robt
- 415 Moberg Gerald F © 673-1877
- 420★Samansky Charles C
- 425 Starmer Samuel
- 455 Adams Fred A © 673-2567
- 475 Guthrie Cecil © 673-2064
- 480 Maislin G B

5111

- YUKON DR INTERSECTS
- 500★Pert Curtis W © 673-2141
- 520★Bessey Rolie D © 673-2420

- 190 Shaw Robt ©
- SLOPE DR INTERSECTS
- 195 No Return
- SIDEHILL DR INTERSECTS
- 200 Vacant
- 250 Menne Henry © 673-1161
- 258 Rucks Floyd D
- 264★Vurnovas Chris 673-4721
- 270★Darwin Fred
- 272 Vacant
- 320 Sequeira David
- 330★Reivera John
- 350 Faraci Charles © 673-2044
- 365 Faraci Richd © 673-2826
- 370 Veek Lyle © 673-2853
- 380 Jacoway Margt D Mrs © 673-3305
- 385 Graham H C 673-1142
- 390★Phillip Elwood 673-4901
- 398 Del Soldato Paul G 673-4645

5TH ST (SPARKS)—FROM 504 B ST
NORTH

- ZIP CODE 89431
- 240★Potter M
- 241 Tracy Albert 358-6937
- 242★Matthews K
- 244★Maynor C
- 245 Franchi Irene Mrs © 358-6408
- C ST INTERSECTS
- 311 Hearn Wm O © 358-8027
- 311½★Carson D
- 312 Welch Robt W 359-6972
- 315★Youngblood J ©
- 315½ Vacant
- 323 No Return
- 325 Cyrzan Irene J ©
- 326 Nannini Marie C Mrs © 358-5306
- 347 Eakes Michl
- D ST INTERSECTS
- 402 Excelsior Enterprises Inc 358-6719
- 402a Pope C
- 402b Vanderley Wm © 358-6719
- 405 Volpi Alipio © 358-6277
- 414★Miller R P
- 421 Hohnholz Robt C 359-0463
- 422★Burns L ©
- 423★Surrett Harley ©
- 425 Dickson Albert E 358-7774
- 430★Beardsley A
- 430b★Young Patty
- 434 Bien Lynn ©
- 442 Zarubi Pete J 358-5206
- 442½ Cornick T
- 455 Milabar Louis 358-3301
- 446 Riggs Bessie A Mrs 358-7386
- 475 Maynard Milton K © 358-7951

- E ST INTERSECTS
- 504 Ciari Agnes I Mrs © 358-5902
- 510★Snell V
- 510½★Dolinsky G
- 511 Anthony Mike 359-3852
- 512★Lambert B
- 515★Anderson Faye I ©
- 520★Cook C
- 550★Hilbig R
- F ST INTERSECTS
- 614 Sather Irene A Mrs © 358-8159
- 622★Delestoletto Yolanda 358-5487
- 622½★Manchester Jacqueline
- 625 Poole Melvin © 358-6210
- 626 Jensen J A Jr © 358-5297
- 639 La Lane Ann 359-4906
- 639½★Hall B
- 640★Feralda R

5TH AV W (SUN VALLEY)—FROM
SUN VALLEY DR WEST 4 NORTH
OF 1ST AV (NUMBERS IRREGULAR)

- ZIP CODE 89431
- 115 Charlie's Mobile Villa 673-3467
- Spaces
- 1★Sprague Leon 673-3618
- 2★Baker Steve 673-4610
- 3★Cole Charles
- 4★Robins Melvin
- 5★Forman Cary 673-3216
- 6★Smith Della 673-4679
- 7 Bernard Jack
- 8★Drake L Robt © 673-3135
- 9 Rowden Dallas W
- 10 Vacant
- 11 Vacant
- 12 Cochrane Cleo 673-2437
- 120 Tallman Elsie Mrs 673-3474
- 160 Whitney Donald ©
- Whitney Kenneth © 673-2983
- Burnell R G

104
TH
LAR)



Property Information

Order Number:	21102800172p
Date Completed:	October 29, 2021
Project Number:	21-198
Project Property:	Proposed Multifamily Development Chocolate Drive Sun Valley NV 89433
Coordinates:	
Latitude:	39.58746769
Longitude:	-119.79029241
UTM Northing:	4385691.68586 Meters
UTM Easting:	260376.40541 Meters
UTM Zone:	UTM Zone 11S
Elevation:	4,835.46 ft
Slope Direction:	E

Topographic Information.....	2
Hydrologic Information.....	12
Geologic Information.....	15
Soil Information.....	17
Wells and Additional Sources.....	35
Summary.....	40
Detail Report.....	44
Radon Information.....	251
Appendix.....	252
Liability Notice.....	254

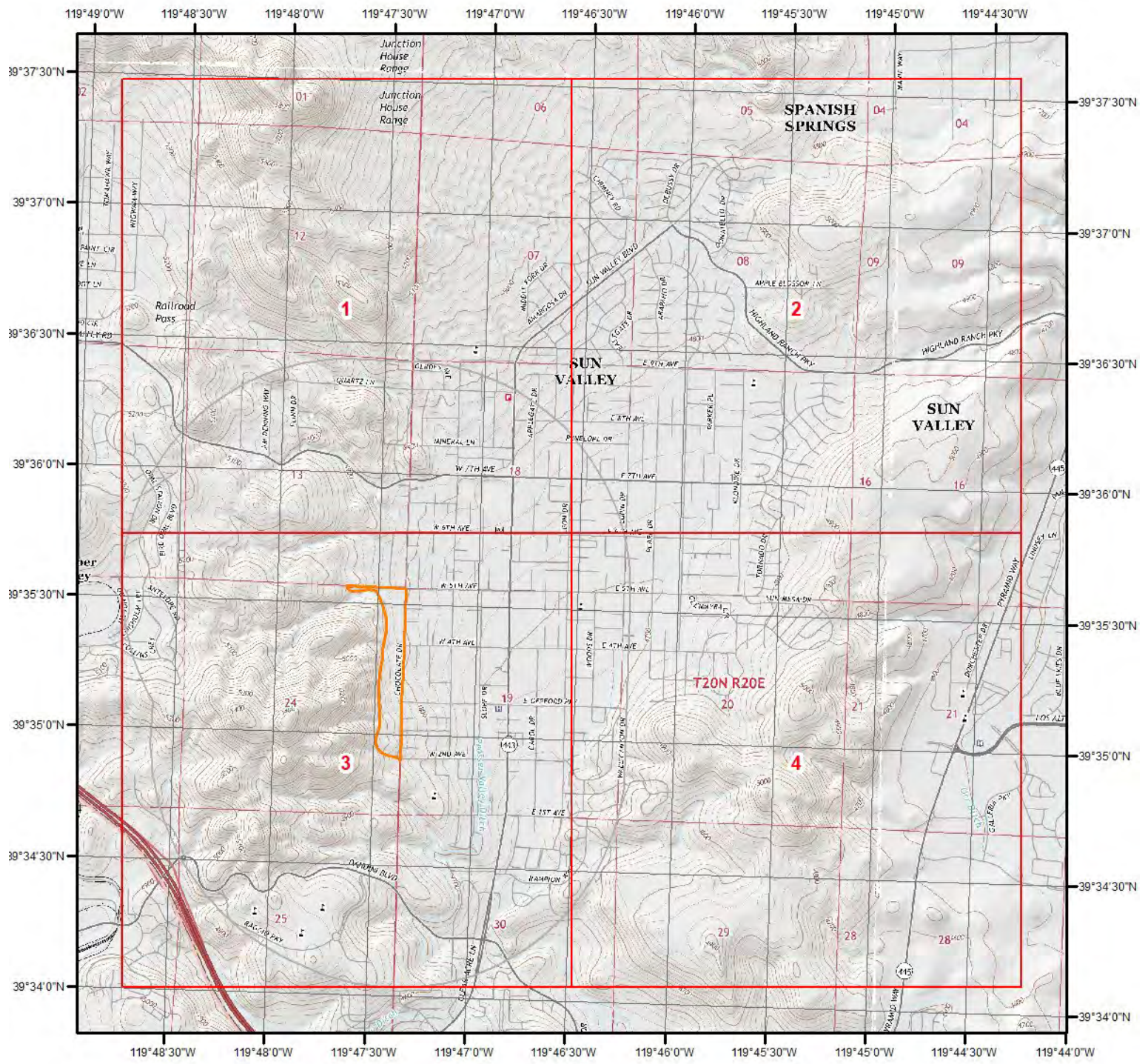
The ERIS **Physical Setting Report - PSR** provides comprehensive information about the physical setting around a site and includes a complete overview of topography and surface topology, in addition to hydrologic, geologic and soil characteristics. The location and detailed attributes of oil and gas wells, water wells, public water systems and radon are also included for review.

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

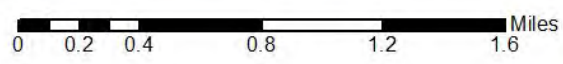
Disclaimer

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

Topographic Information



Current USGS Topo (2015)

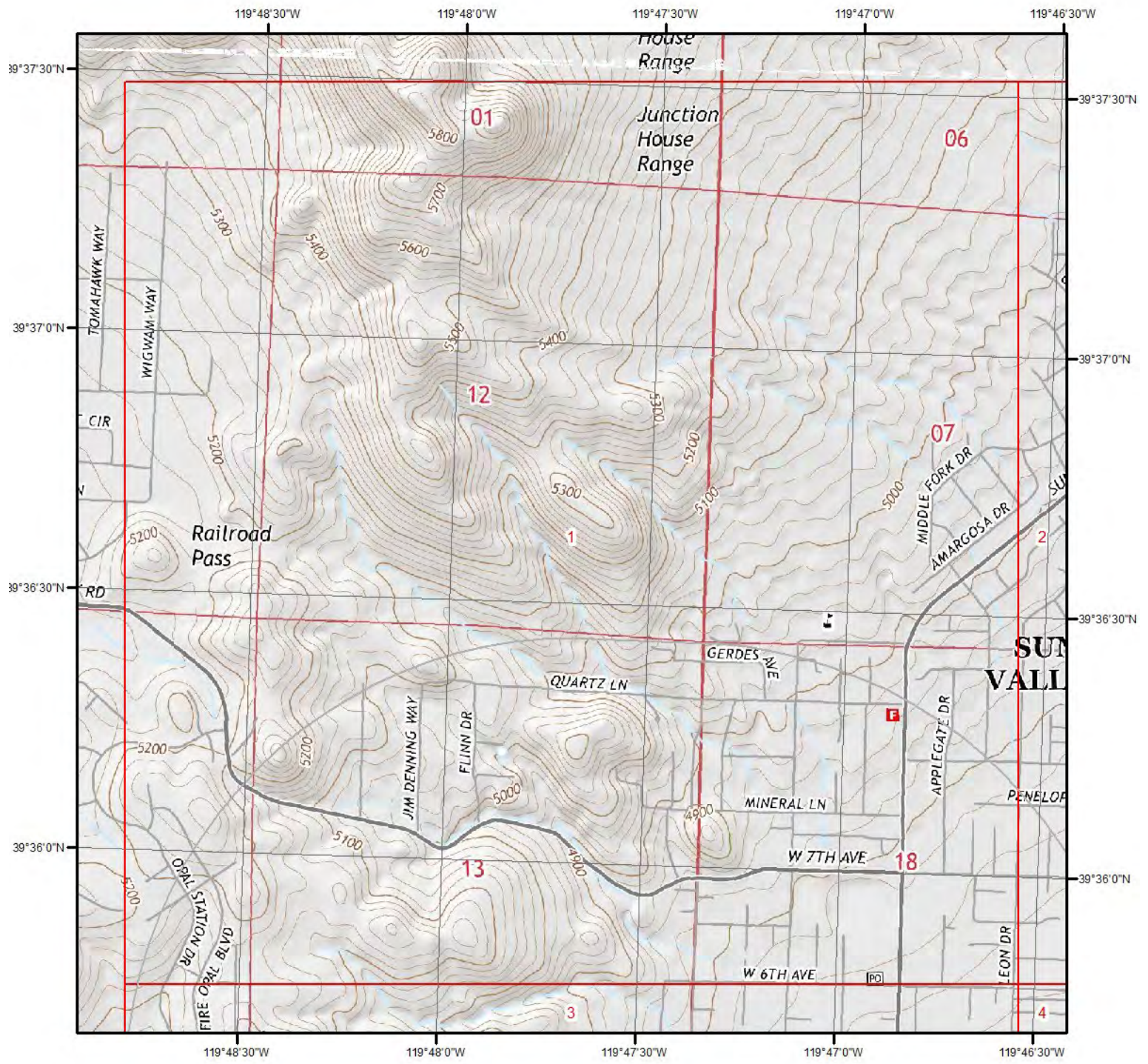


Quadrangle(s): Griffith Canyon,NV; Reno,NV; Reno NE,NV; Reno NW,NV: Verdi,NV; Vista,NV

Source: USGS 7.5 Minute Topographic Map



Topographic Information



Current USGS Topo - Page 1

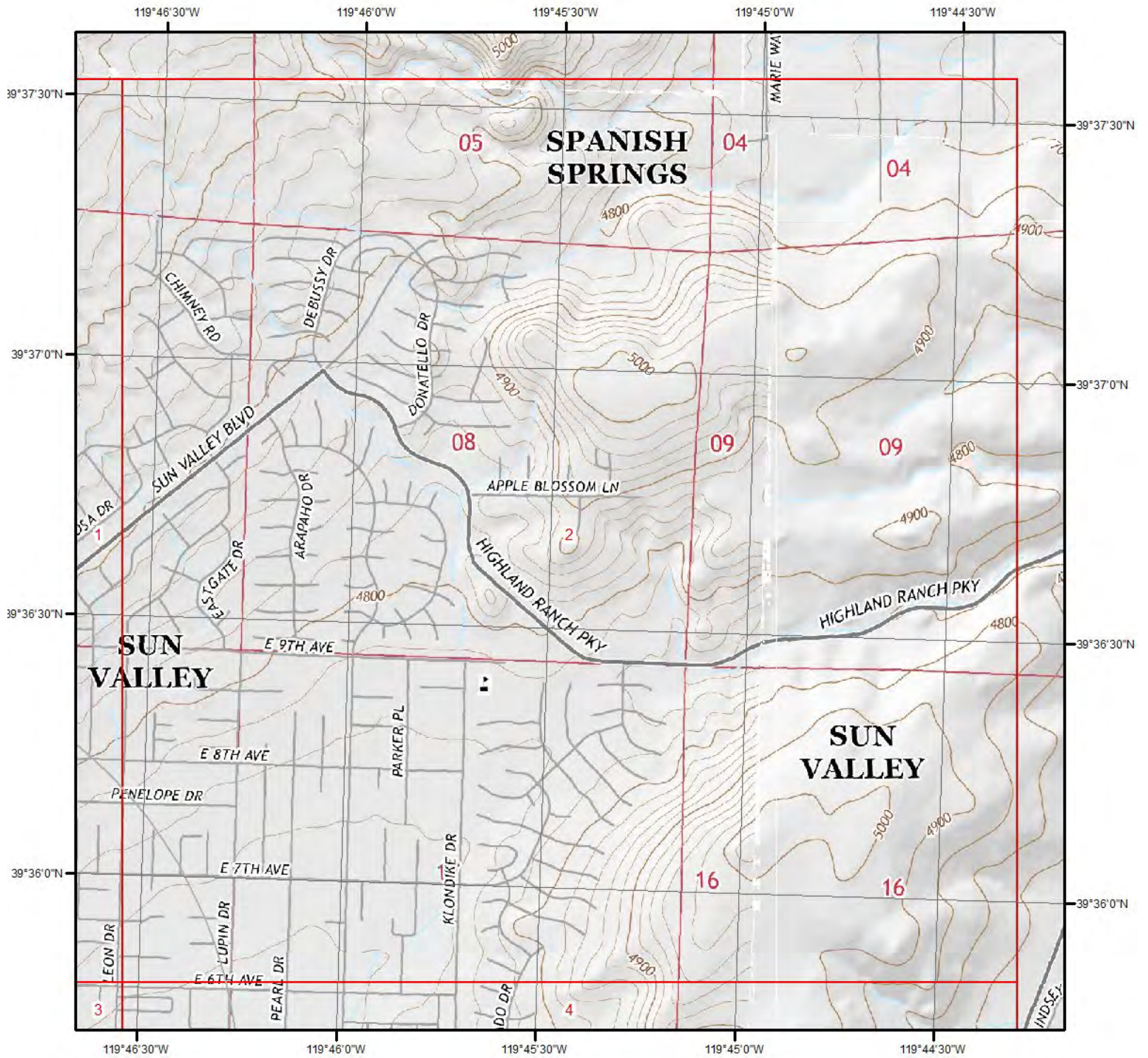


Quadrangle(s): Reno,NV; Reno NE,NV

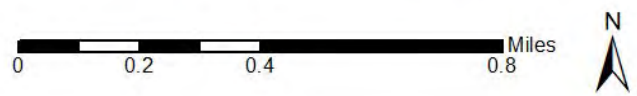
Source: USGS 7.5 Minute Topographic Map



Topographic Information



Current USGS Topo - Page 2

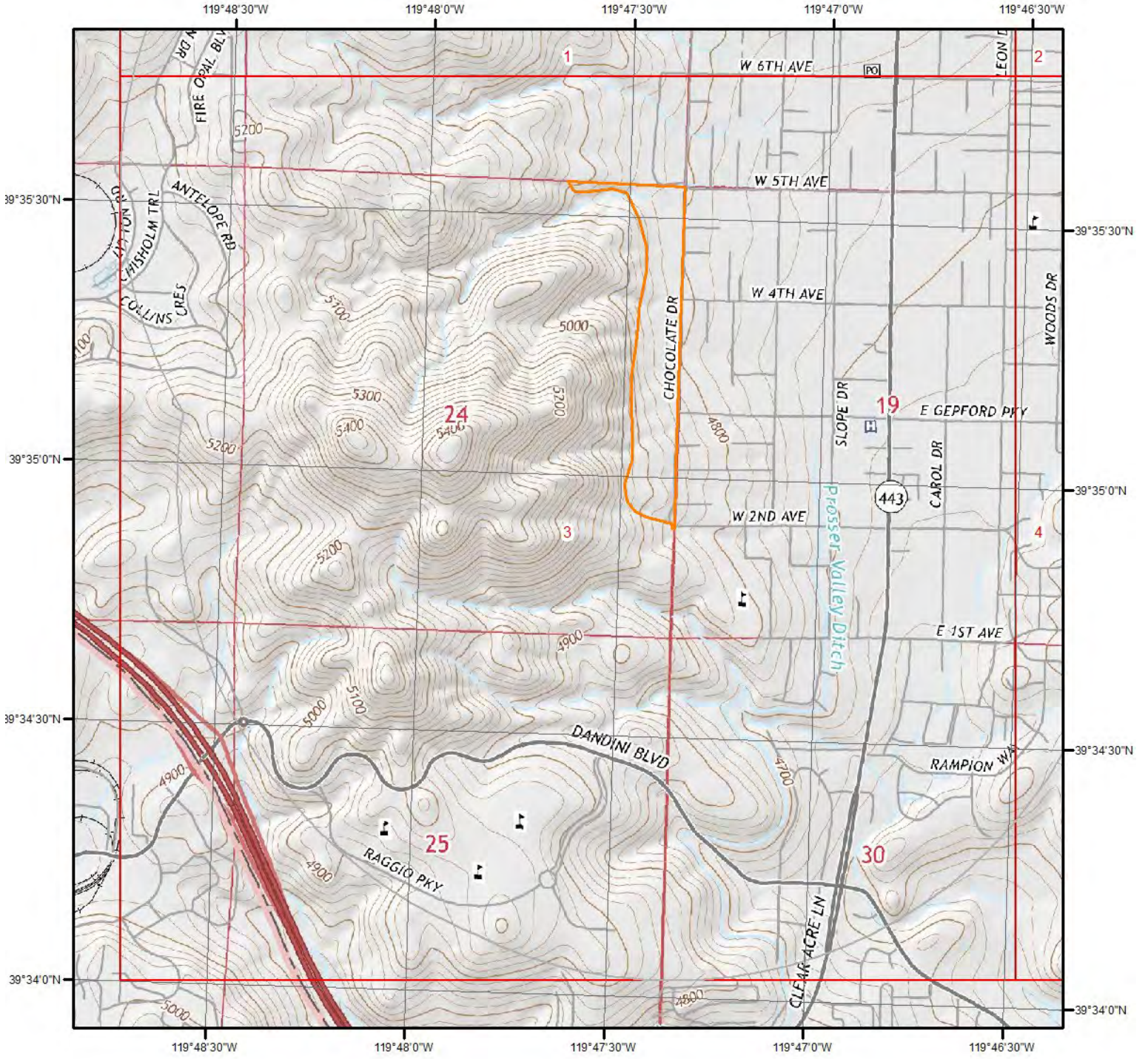


Quadrangle(s): Griffith Canyon,NV; Reno,NV; Reno NE,NV; Vista,NV

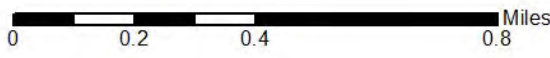
Source: USGS 7.5 Minute Topographic Map



Topographic Information



Current USGS Topo - Page 3

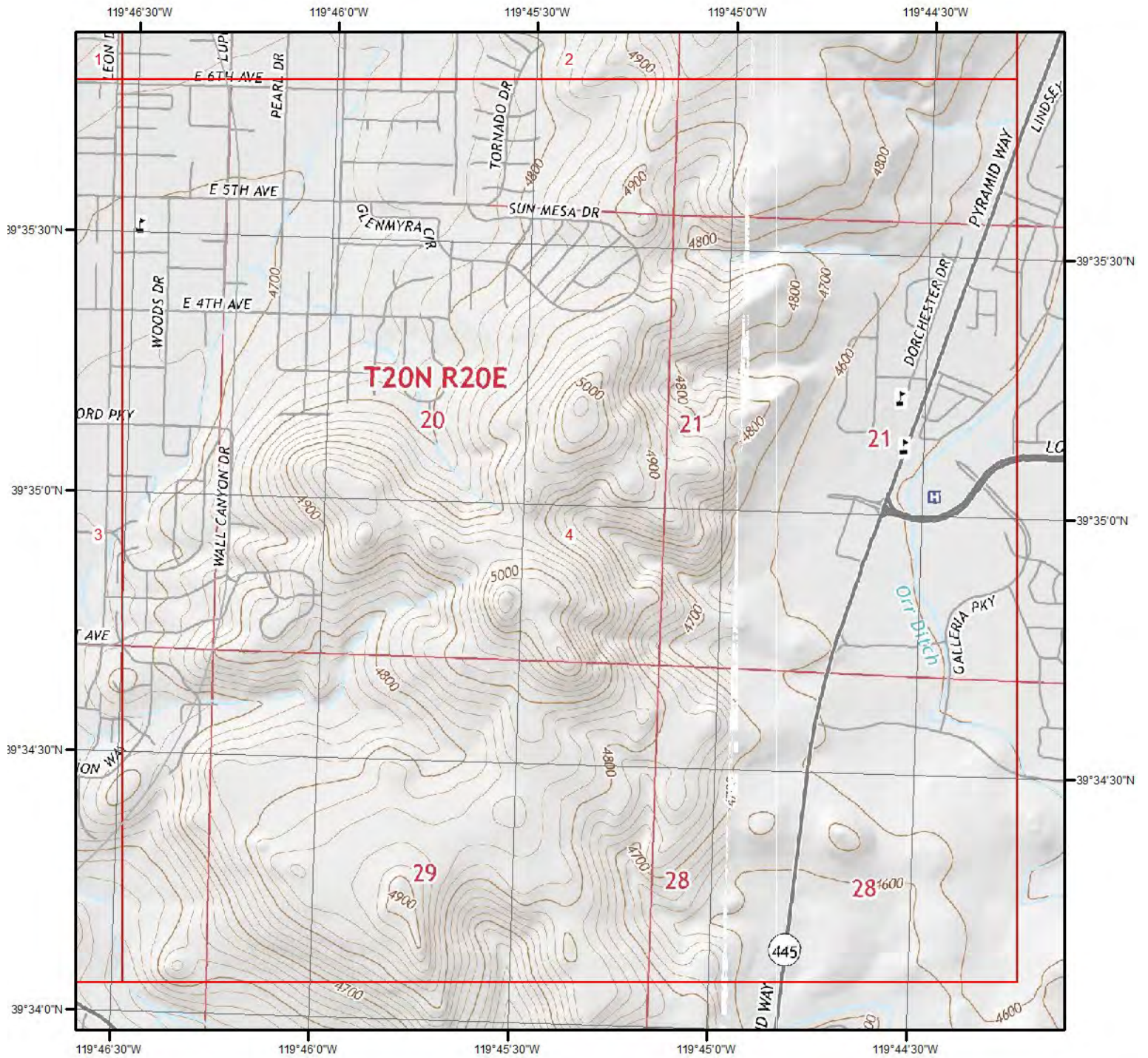


Quadrangle(s): Reno, NV

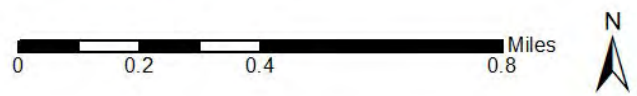
Source: USGS 7.5 Minute Topographic Map



Topographic Information



Current USGS Topo - Page 4



Quadrangle(s): Reno,NV; Vista,NV

Source: USGS 7.5 Minute Topographic Map

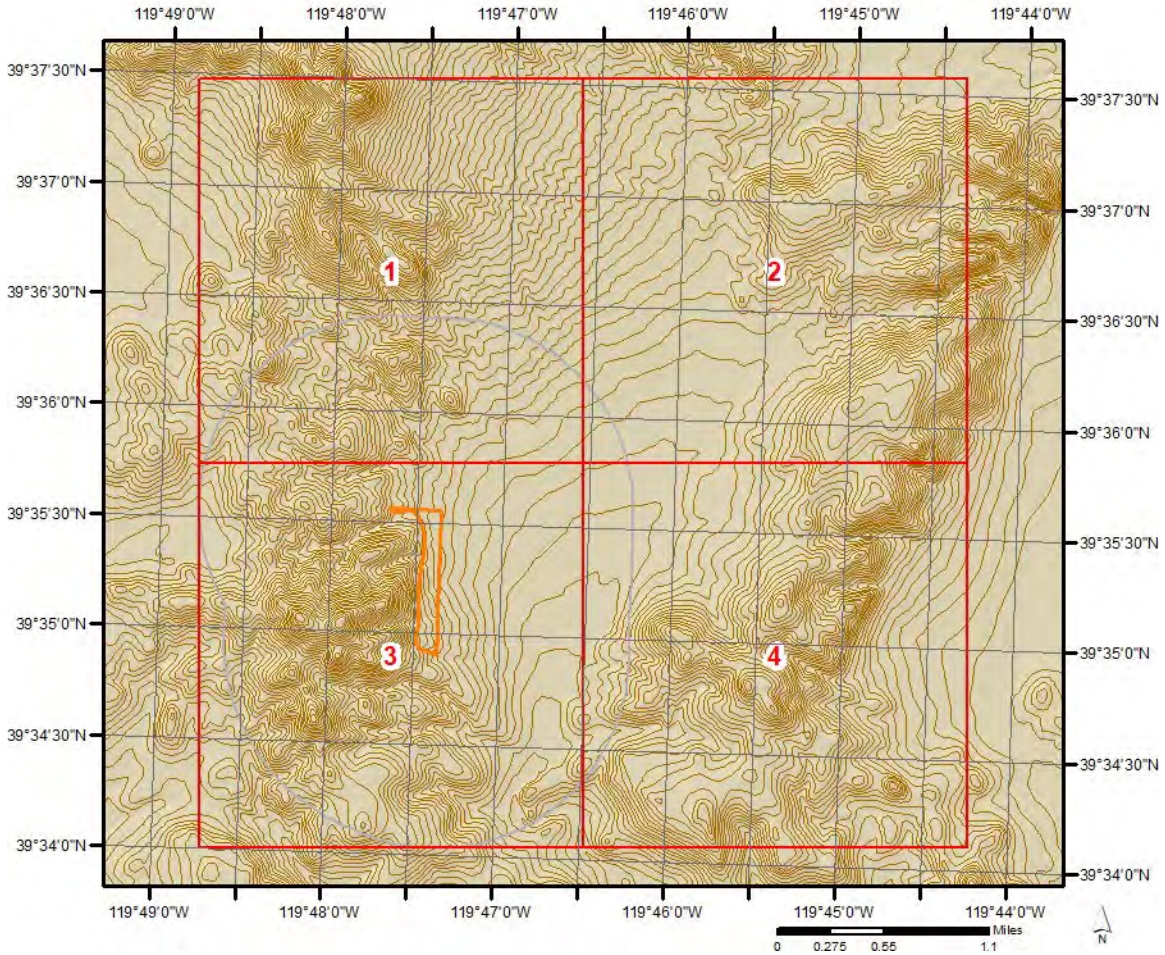


Topographic Information

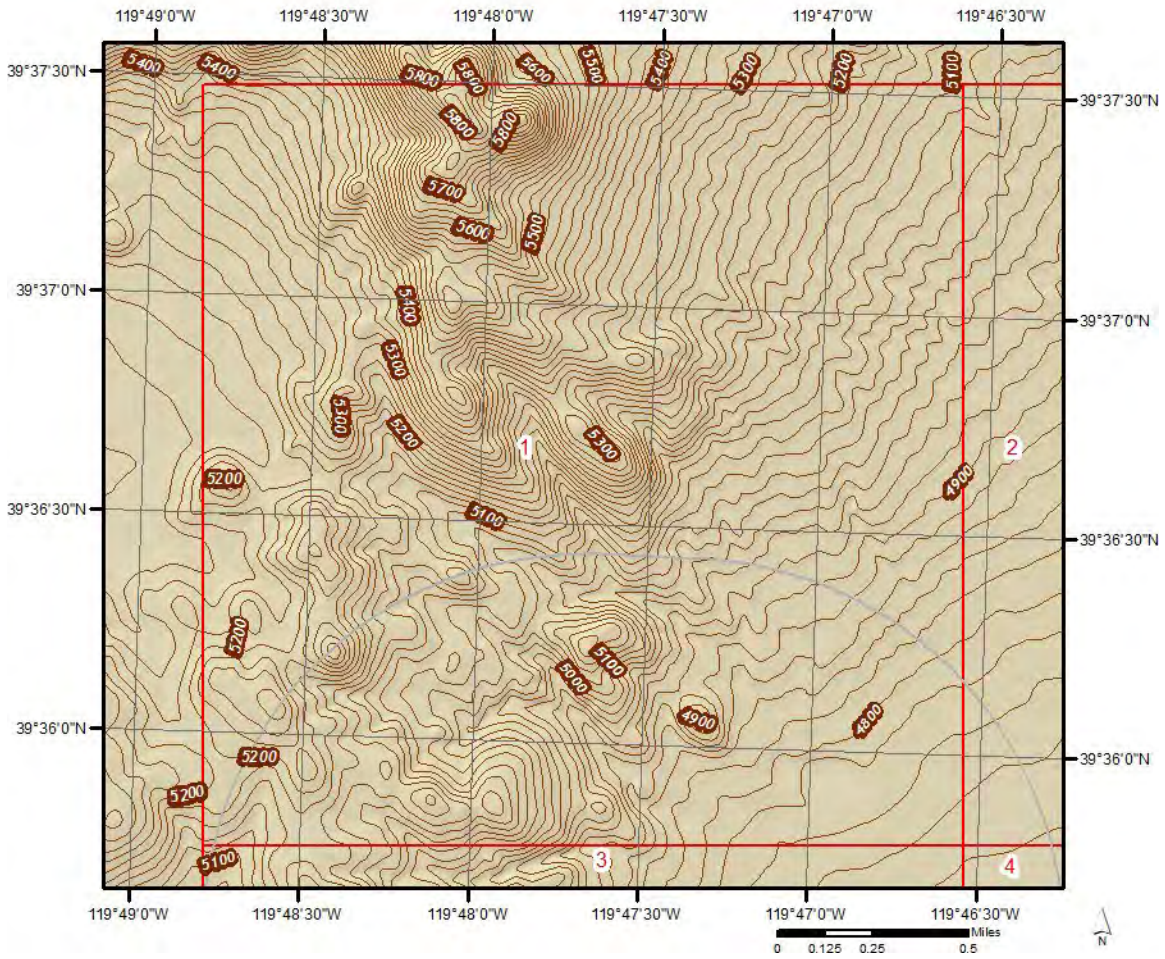
The previous topographic map(s) are created by seamlessly merging and cutting current USGS topographic data. Below are shaded relief map(s), derived from USGS elevation data to show surrounding topography in further detail.

Topographic information at project property:

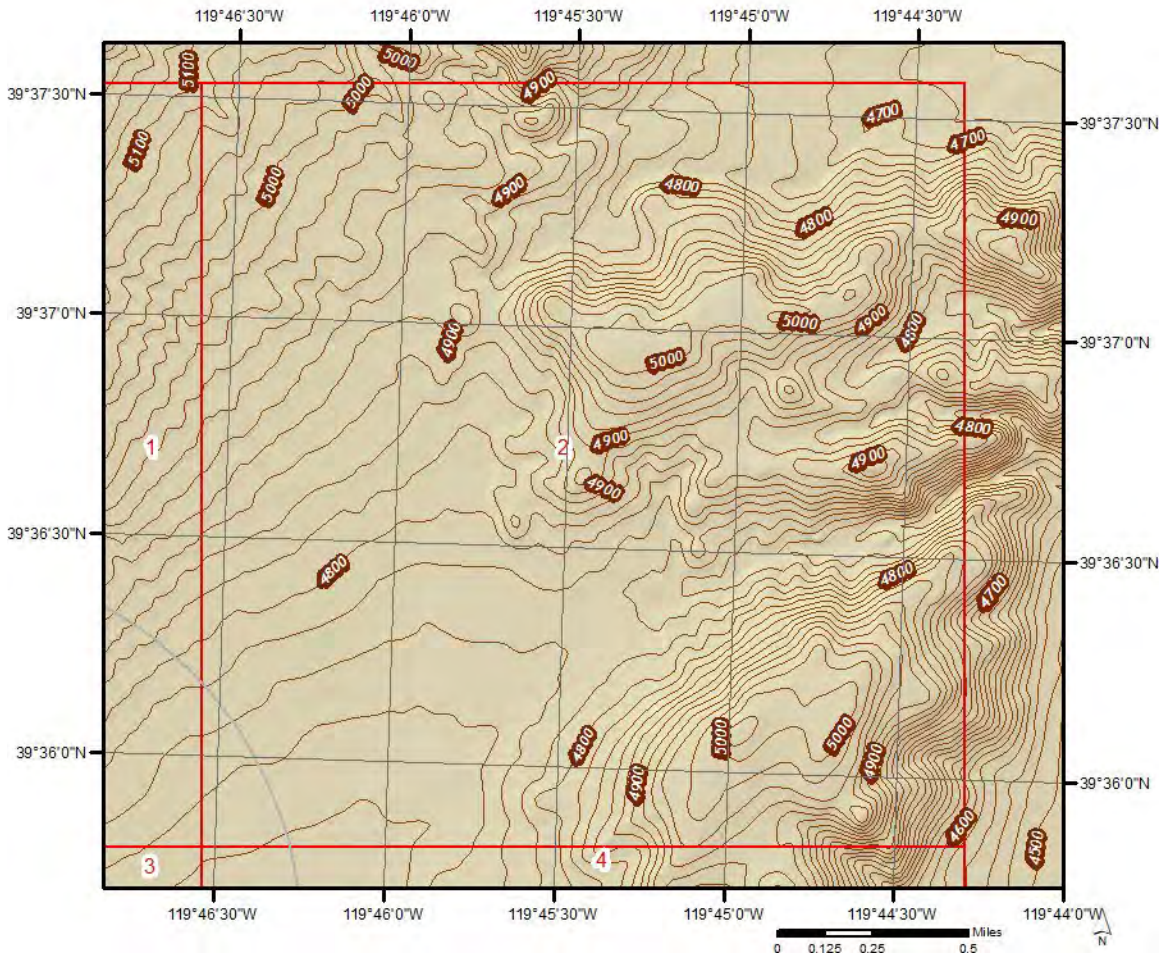
Elevation: 4,835.46 ft
Slope Direction: E



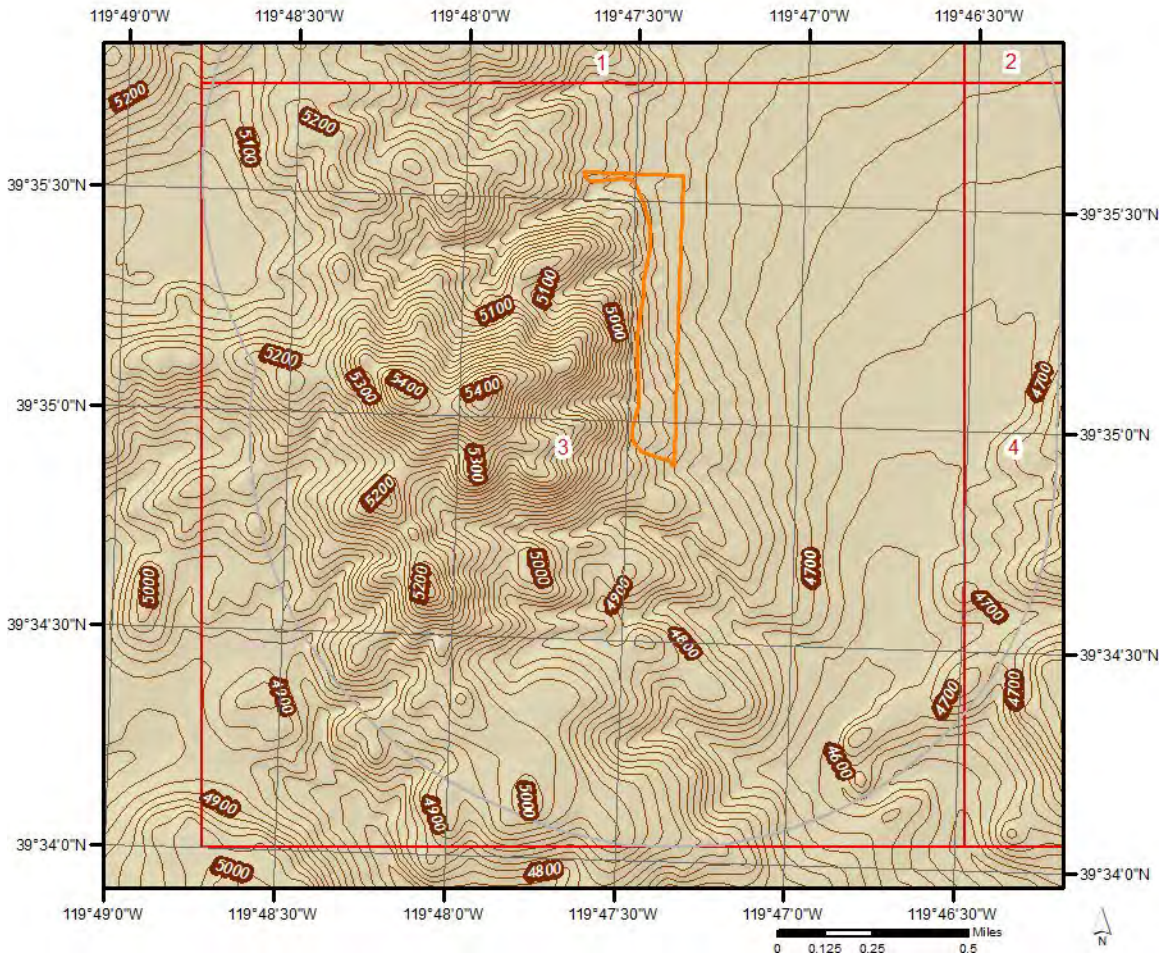
Topographic Information



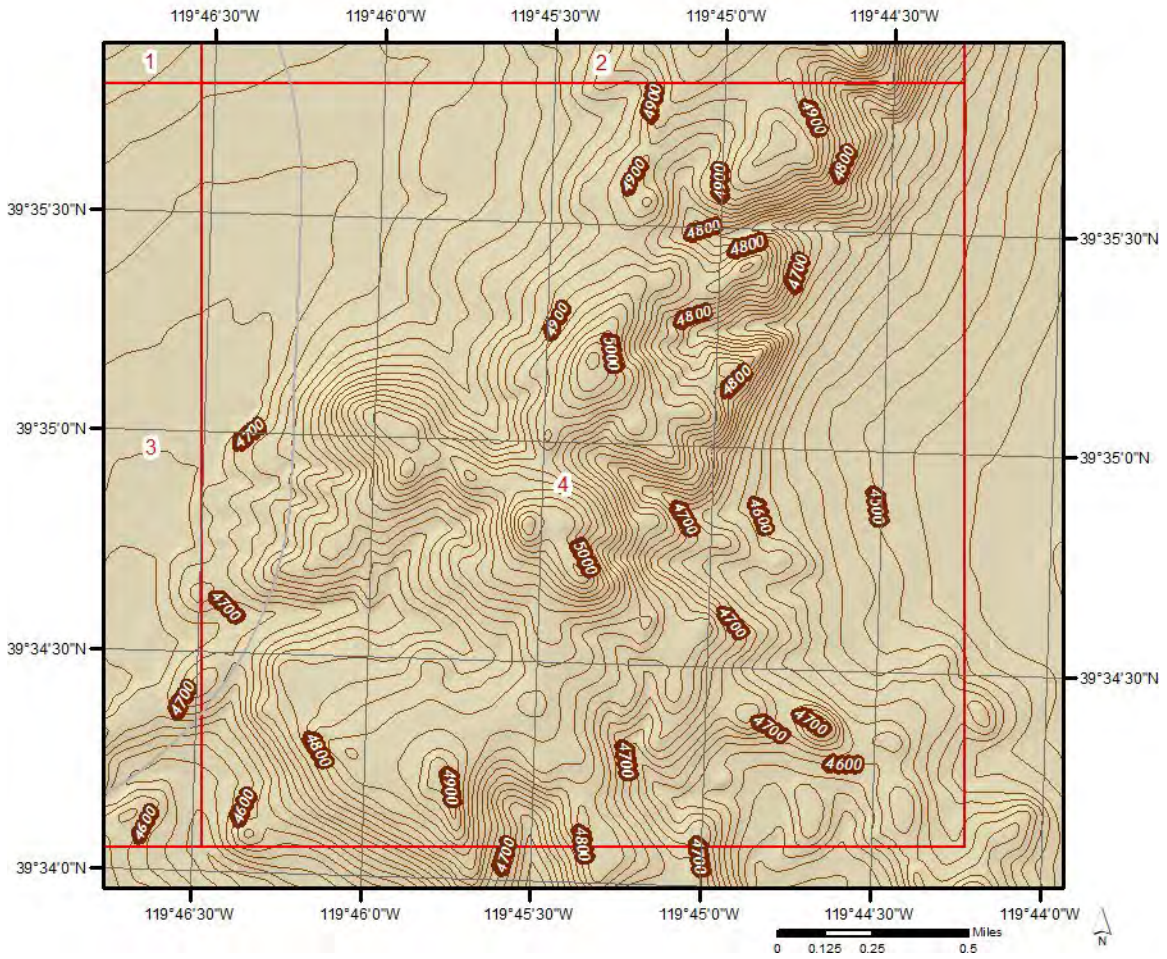
Topographic Information



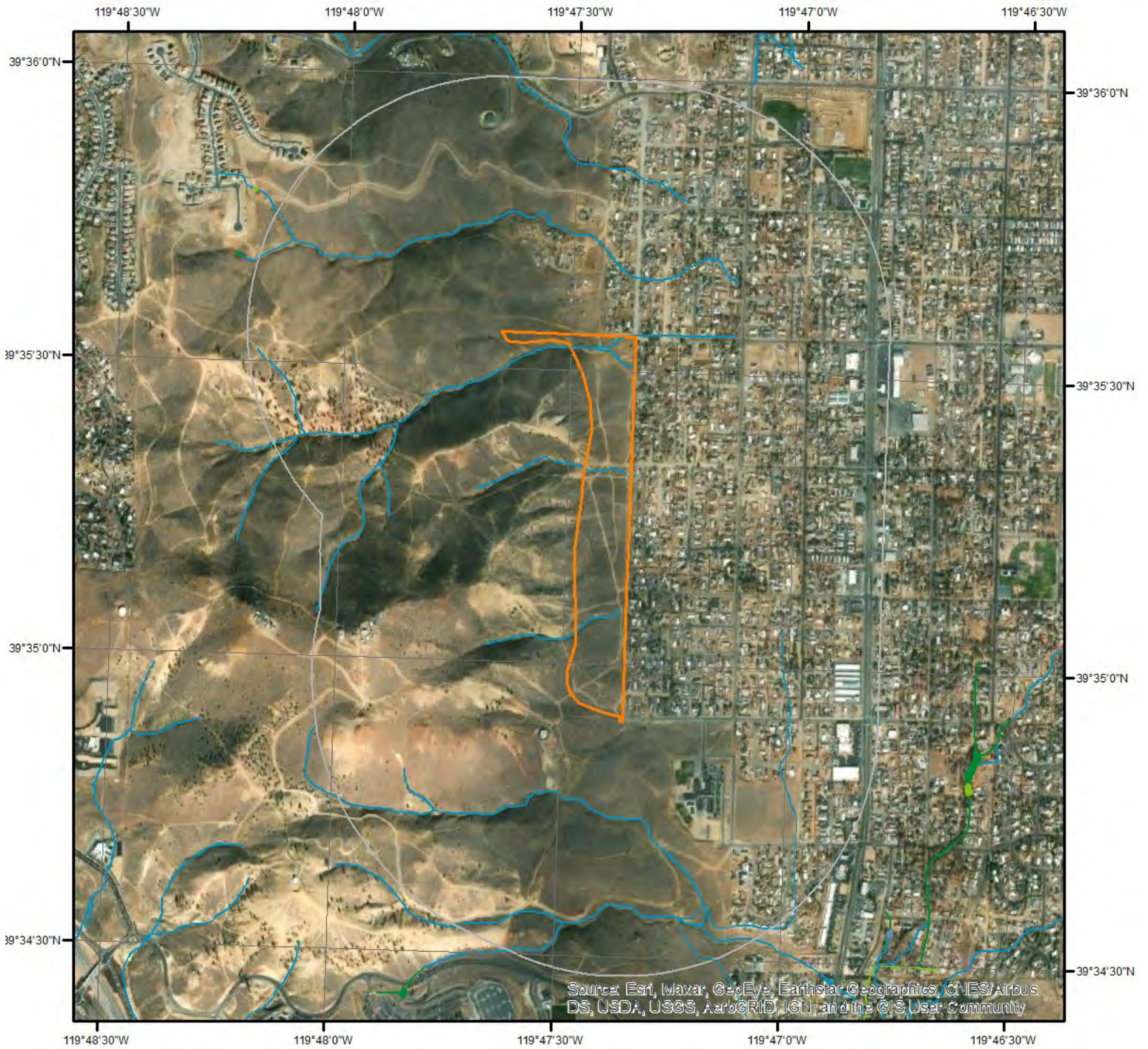
Topographic Information



Topographic Information

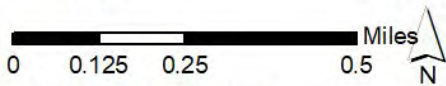


Hydrologic Information



Source: Esri, Inxar, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

Wetland

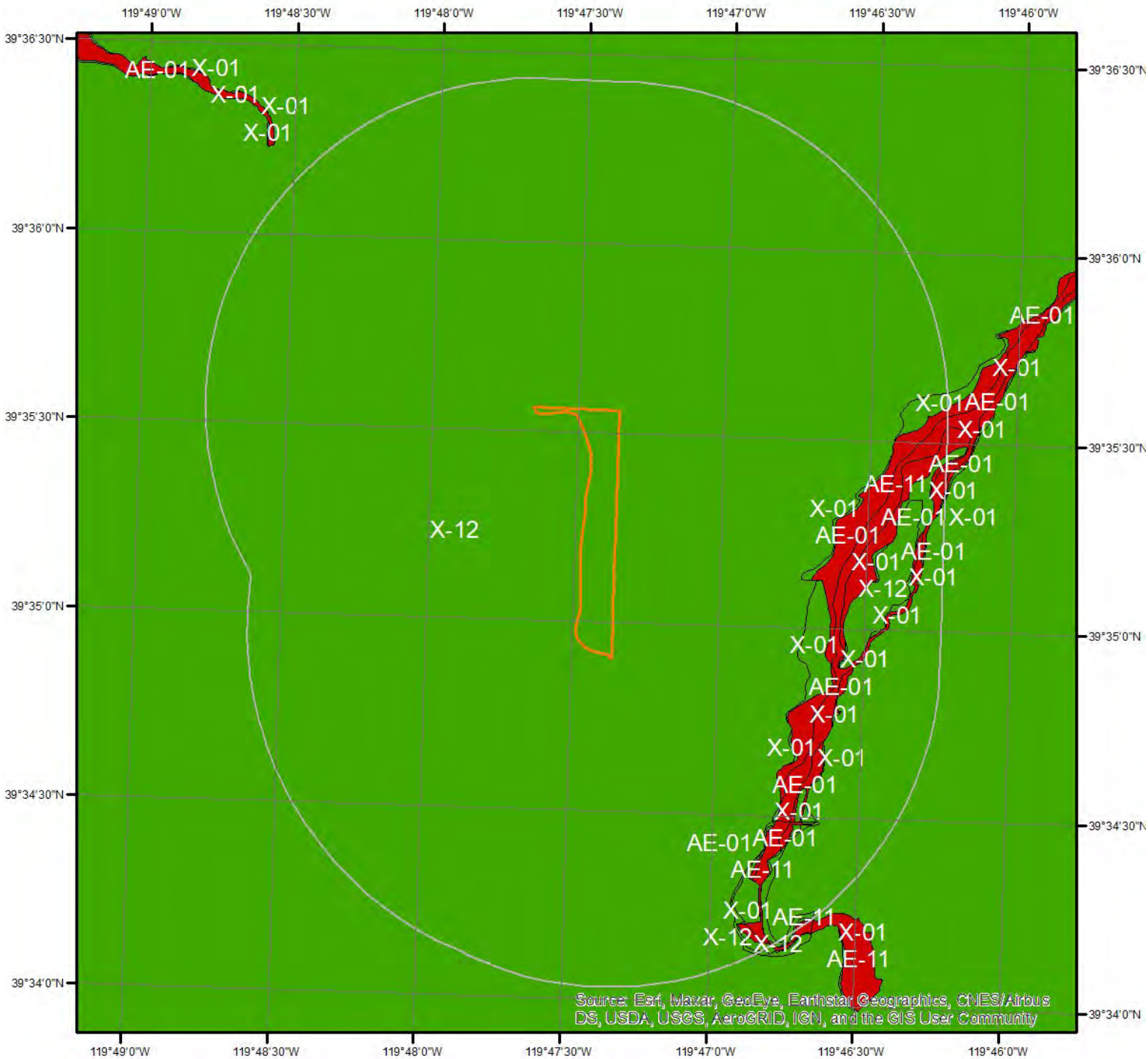


This map shows wetland existence using data from US Fish & Wildlife. Data coverage is shown to the right. Gray indicates no data available in the area.

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

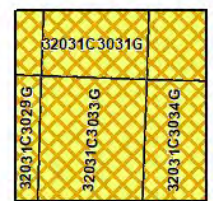
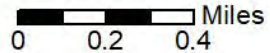


Hydrologic Information










Source: Esri, Maxar, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

Flood Hazard Zones



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

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



Hydrologic Information

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

Available FIRM Panels in area: 32031C3032G(effective:2009-03-16) 32031C3033G(effective:2009-03-16)
32031C3034G(effective:2009-03-16) 32031C3029G(effective:2009-03-16)
32031C3027G(effective:2009-03-16) 32031C3031G(effective:2009-03-16)

Flood Zone AE-01

Zone: AE
Zone subtype:

Flood Zone AE-11

Zone: AE
Zone subtype: FLOODWAY

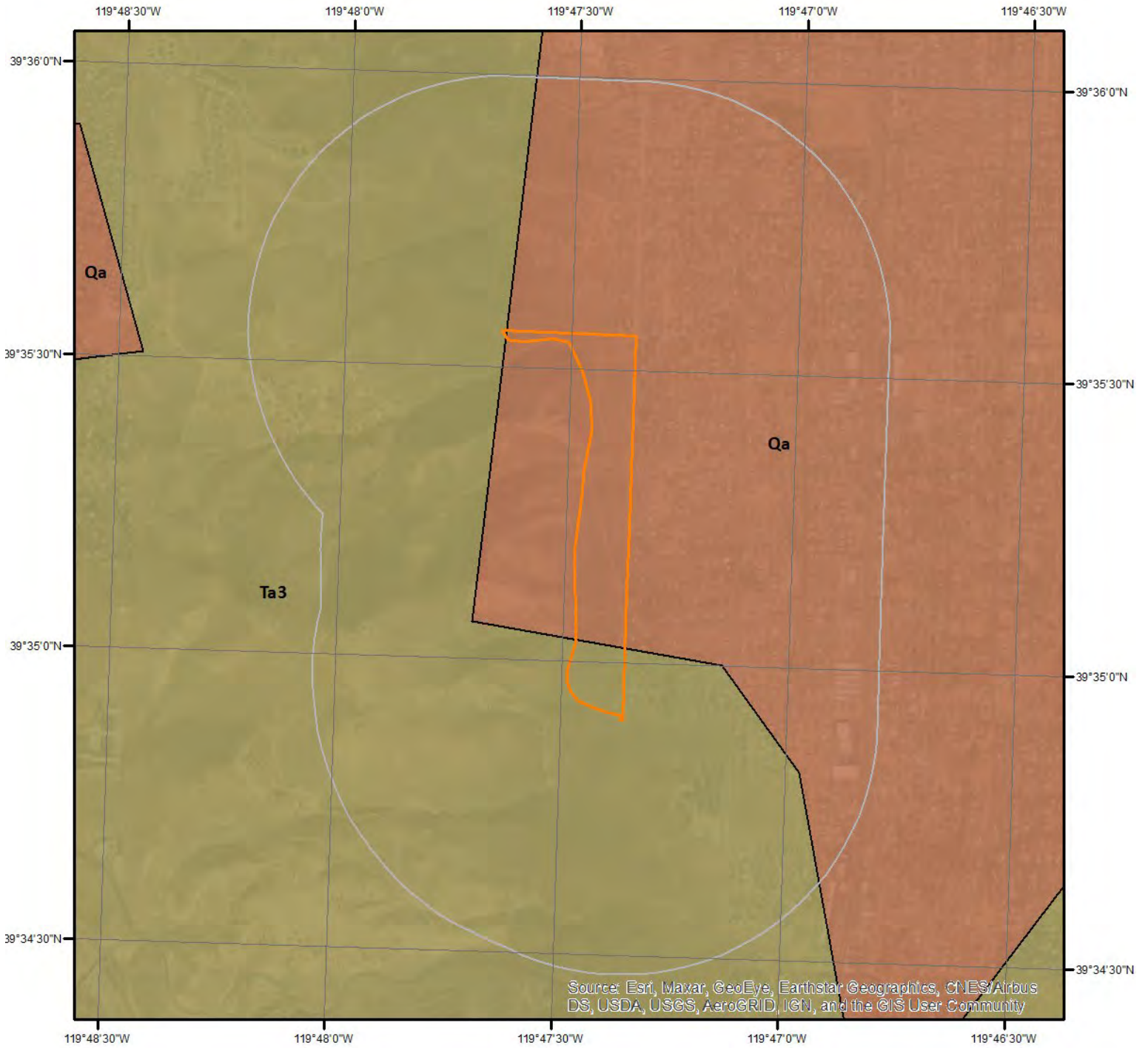
Flood Zone X-01

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

Flood Zone X-12

Zone: X
Zone subtype: AREA OF MINIMAL FLOOD HAZARD

Geologic Information



Geologic Units

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



Geologic Information

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

Geologic Unit Qa

Unit Name:	Alluvial deposits
Unit Age:	Quaternary
Primary Rock Type:	alluvium
Secondary Rock Type:	mass wasting
Unit Description:	ALLUVIAL DEPOSITS-Locally includes beach and sand dune deposits

Geologic Unit Ta3

Unit Name:	Andesite and related rocks of intermediate composition
Unit Age:	Late Miocene to Middle Miocene
Primary Rock Type:	andesite
Secondary Rock Type:	latite
Unit Description:	ANDESITE AND RELATED ROCKS OF INTERMEDIATE COMPOSITION- Flows and breccias

Soil Information

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

Map Unit 110 (0.97%)

Map Unit Name: Jowec variant sandy loam, 4 to 8 percent slopes
Bedrock Depth - Min:
Watertable Depth - Annual Min:
Drainage Class - Dominant: Well drained
Hydrologic Group - Dominant: D - Soils in this group have high runoff potential when thoroughly wet. Water movement through the soil is restricted or very restricted.

Major components are printed below

Jowec variant(85%)
horizon H1(0cm to 25cm) Sandy loam
horizon H2(25cm to 51cm) Clay
horizon H3(51cm to 168cm) Stratified sandy loam to clay loam

Component Description:

Minor map unit components are excluded from this report.

Map Unit: 110 - Jowec variant sandy loam, 4 to 8 percent slopes

Component: Jowec variant (85%)

The Jowec variant component makes up 85 percent of the map unit. Slopes are 4 to 8 percent. This component is on fan remnants, piedmonts. The parent material consists of alluvium derived from granite. Depth to a root restrictive layer is greater than 60 inches. The natural drainage class is well drained. Water movement in the most restrictive layer is low. Available water to a depth of 60 inches (or restricted depth) is high. Shrink-swell potential is moderate. This soil is not flooded. It is not ponded. There is no zone of water saturation within a depth of 72 inches. Organic matter content in the surface horizon is about 1 percent. This component is in the R026XY016NV Loamy 8-10 P.z. ecological site. Nonirrigated land capability classification is 7s. This soil does not meet hydric criteria. The calcium carbonate equivalent within 40 inches, typically, does not exceed 1 percent. There are no saline horizons within 30 inches of the soil surface.

Component: Aquinas (4%)

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

Component: Northmore (4%)

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

Component: Greenbrae (4%)

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

Component: Badland (3%)

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

Map Unit 131 (14.9%)

Map Unit Name: Greenbrae sandy loam, 0 to 2 percent slopes
Bedrock Depth - Min:
Watertable Depth - Annual Min:
Drainage Class - Dominant: Well drained
Hydrologic Group - Dominant: C - Soils in this group have moderately high runoff potential when thoroughly wet. Water transmission through the soil is somewhat restricted.

Major components are printed below

Greenbrae(85%)
horizon H1(0cm to 25cm) Sandy loam

Soil Information

horizon H2(25cm to 71cm)
horizon H3(71cm to 160cm)

Sandy clay loam
Stratified coarse sand to gravelly loam

Component Description:

Minor map unit components are excluded from this report.

Map Unit: 131 - Greenbrae fine sandy loam, 0 to 2 percent slopes

Component: Greenbrae (85%)

The Greenbrae component makes up 85 percent of the map unit. Slopes are 0 to 2 percent. This component is on alluvial fans on fan piedmonts. The parent material consists of loamy alluvium derived from granite over alluvium derived from granite. Depth to a root restrictive layer is greater than 60 inches. The natural drainage class is well drained. Water movement in the most restrictive layer is moderately low. Available water to a depth of 60 inches (or restricted depth) is moderate. Shrink-swell potential is low. This soil is not flooded. It is not ponded. There is no zone of water saturation within a depth of 72 inches. Organic matter content in the surface horizon is about 1 percent. This component is in the R026XY016NV Loamy 8-10 P.z. ecological site. Nonirrigated land capability classification is 6s. Irrigated land capability classification is 2s. This soil does not meet hydric criteria. There are no saline horizons within 30 inches of the soil surface.

Component: Indian Creek (4%)

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

Component: Haybourne (4%)

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

Component: Northmore (3%)

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

Component: Shree (2%)

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

Component: Eastval (2%)

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

Map Unit 132 (17.32%)

Map Unit Name: Greenbrae sandy loam, 2 to 4 percent slopes

Bedrock Depth - Min:

Watertable Depth - Annual Min:

Drainage Class - Dominant: Well drained

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

Major components are printed below

Greenbrae(85%)

horizon H1(0cm to 20cm)
horizon H2(20cm to 71cm)
horizon H3(71cm to 160cm)

Sandy loam
Sandy clay loam
Stratified coarse sand to gravelly loam

Component Description:

Minor map unit components are excluded from this report.

Map Unit: 132 - Greenbrae sandy loam, 2 to 4 percent slopes

Component: Greenbrae (85%)

The Greenbrae component makes up 85 percent of the map unit. Slopes are 2 to 4 percent. This component is on fan remnants, piedmonts. The parent material consists of alluvium derived from granitic rocks. Depth to a root restrictive layer is greater than 60 inches. The natural drainage class is well drained. Water movement in the most restrictive layer is moderately low. Available water to a depth of 60 inches (or restricted depth) is moderate. Shrink-swell potential is low. This soil is not flooded. It is not ponded. There is no zone of water saturation within a depth of 72 inches. Organic matter content in the surface horizon is about 1 percent. This component is in the R026XY016NV Loamy 8-10 P.z. ecological site. Nonirrigated land capability classification is 6s. Irrigated land

Soil Information

capability classification is 2e. This soil does not meet hydric criteria.

Component: Northmore (5%)

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

Component: Orr variant (5%)

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

Component: Indian Creek (5%)

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

Map Unit 171 (0.95%)

Map Unit Name: Indian Creek gravelly sandy loam, 0 to 4 percent slopes

Bedrock Depth - Min:

Watertable Depth - Annual Min:

Drainage Class - Dominant: Well drained

Hydrologic Group - Dominant: D - Soils in this group have high runoff potential when thoroughly wet. Water movement through the soil is restricted or very restricted.

Major components are printed below

Indian Creek(85%)

horizon H1(0cm to 8cm)

Gravelly sandy loam

horizon H2(8cm to 50cm)

Gravelly clay

horizon H3(50cm to 64cm)

Cemented material

horizon H4(64cm to 152cm)

Stratified extremely gravelly loamy coarse sand to gravelly sandy clay loam

Component Description:

Minor map unit components are excluded from this report.

Map Unit: 171 - Indian Creek gravelly sandy loam, 0 to 4 percent slopes

Component: Indian Creek (85%)

The Indian Creek component makes up 85 percent of the map unit. Slopes are 0 to 4 percent. This component is on fan remnants, fan piedmonts. The parent material consists of mixed alluvium. Depth to a root restrictive layer, duripan, is 14 to 20 inches. The natural drainage class is well drained. Water movement in the most restrictive layer is very low. Available water to a depth of 60 inches (or restricted depth) is very low. Shrink-swell potential is high. This soil is not flooded. It is not ponded. There is no zone of water saturation within a depth of 72 inches. Organic matter content in the surface horizon is about 1 percent. This component is in the R026XY025NV Claypan 8-10 P.z. ecological site. Nonirrigated land capability classification is 7s. This soil does not meet hydric criteria. The calcium carbonate equivalent within 40 inches, typically, does not exceed 3 percent. There are no saline horizons within 30 inches of the soil surface. The soil has a maximum sodium adsorption ratio of 3 within 30 inches of the soil surface.

Component: Northmore (5%)

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

Component: Cassiro (5%)

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

Component: Washoe (5%)

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

Map Unit 172 (6.58%)

Map Unit Name: Indian Creek sandy loam, 4 to 8 percent slopes

Bedrock Depth - Min:

Watertable Depth - Annual Min:

Drainage Class - Dominant: Well drained

Hydrologic Group - Dominant: D - Soils in this group have high runoff potential when thoroughly wet. Water movement through the soil is restricted or very restricted.

Soil Information

Major components are printed below

Indian Creek(85%)

horizon H1(0cm to 8cm)

Sandy loam

horizon H2(8cm to 50cm)

Gravelly clay

horizon H3(50cm to 64cm)

Cemented material

horizon H4(64cm to 152cm)

Stratified extremely gravelly loamy coarse sand to gravelly sandy clay loam

Component Description:

Minor map unit components are excluded from this report.

Map Unit: 172 - Indian Creek sandy loam, 4 to 8 percent slopes

Component: Indian Creek (85%)

The Indian Creek component makes up 85 percent of the map unit. Slopes are 4 to 8 percent. This component is on fan remnants, fan piedmonts. The parent material consists of mixed alluvium. Depth to a root restrictive layer, duripan, is 14 to 20 inches. The natural drainage class is well drained. Water movement in the most restrictive layer is very low. Available water to a depth of 60 inches (or restricted depth) is very low. Shrink-swell potential is high. This soil is not flooded. It is not ponded. There is no zone of water saturation within a depth of 72 inches. Organic matter content in the surface horizon is about 1 percent. This component is in the R026XY025NV Claypan 8-10 P.z. ecological site. Nonirrigated land capability classification is 7s. This soil does not meet hydric criteria. The calcium carbonate equivalent within 40 inches, typically, does not exceed 3 percent. There are no saline horizons within 30 inches of the soil surface. The soil has a maximum sodium adsorption ratio of 3 within 30 inches of the soil surface.

Component: Washoe (5%)

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

Component: Cassiro (5%)

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

Component: Northmore (5%)

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

Map Unit 173 (1.08%)

Map Unit Name: Indian Creek sandy loam, 8 to 15 percent slopes

Bedrock Depth - Min:

Watertable Depth - Annual Min:

Drainage Class - Dominant: Well drained

Hydrologic Group - Dominant: D - Soils in this group have high runoff potential when thoroughly wet. Water movement through the soil is restricted or very restricted.

Major components are printed below

Indian Creek(85%)

horizon H1(0cm to 8cm)

Sandy loam

horizon H2(8cm to 50cm)

Gravelly clay

horizon H3(50cm to 64cm)

Cemented material

horizon H4(64cm to 152cm)

Stratified extremely gravelly loamy coarse sand to gravelly sandy clay loam

Component Description:

Minor map unit components are excluded from this report.

Map Unit: 173 - Indian Creek sandy loam, 8 to 15 percent slopes

Component: Indian Creek (85%)

The Indian Creek component makes up 85 percent of the map unit. Slopes are 8 to 15 percent. This component is on fan remnants, fan piedmonts. The parent material consists of mixed alluvium. Depth to a root restrictive layer, duripan, is 14 to 20 inches. The natural drainage class is well drained. Water movement in the most restrictive layer is very low. Available water to a depth of 60 inches (or restricted depth) is very low. Shrink-swell potential is high. This soil is not flooded. It is not ponded. There is no zone of water saturation within a depth of 72 inches. Organic matter content in the surface horizon is about 1 percent. This component is in the R026XY025NV Claypan 8-10 P.z. ecological site. Nonirrigated land capability classification is 7s. This soil does not meet hydric

Soil Information

criteria. The calcium carbonate equivalent within 40 inches, typically, does not exceed 3 percent. There are no saline horizons within 30 inches of the soil surface. The soil has a maximum sodium adsorption ratio of 3 within 30 inches of the soil surface.

Component: Cassiro (5%)

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

Component: Northmore (5%)

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

Component: Washoe (5%)

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

Map Unit 190 (5.2%)

Map Unit Name: Manogue cobbly clay, 2 to 8 percent slopes
Bedrock Depth - Min: 160cm
Watertable Depth - Annual Min:
Drainage Class - Dominant: Well drained
Hydrologic Group - Dominant: D - Soils in this group have high runoff potential when thoroughly wet. Water movement through the soil is restricted or very restricted.

Major components are printed below

Manogue(85%)

horizon H1(0cm to 5cm)	Cobbly clay
horizon H2(5cm to 160cm)	Clay
horizon Cr(160cm to 183cm)	Bedrock

Component Description:

Minor map unit components are excluded from this report.

Map Unit: 190 - Manogue cobbly clay, 2 to 8 percent slopes

Component: Manogue (85%)

The Manogue component makes up 85 percent of the map unit. Slopes are 2 to 8 percent. This component is on hills on hills. The parent material consists of colluvium derived from volcanic rock over residuum weathered from volcanic rock. Depth to a root restrictive layer, bedrock, paralithic, is 39 to 65 inches. The natural drainage class is well drained. Water movement in the most restrictive layer is low. Available water to a depth of 60 inches (or restricted depth) is moderate. Shrink-swell potential is high. This soil is not flooded. It is not ponded. There is no zone of water saturation within a depth of 72 inches. Organic matter content in the surface horizon is about 2 percent. This component is in the R026XY027NV Churning Clay 8-10 P.z. ecological site. Nonirrigated land capability classification is 7e. This soil does not meet hydric criteria. The calcium carbonate equivalent within 40 inches, typically, does not exceed 3 percent. The soil has a slightly saline horizon within 30 inches of the soil surface. The soil has a maximum sodium adsorption ratio of 5 within 30 inches of the soil surface.

Component: Xman (5%)

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

Component: Reno (5%)

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

Component: Verdico variant (5%)

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

Map Unit 191 (0.57%)

Map Unit Name: Manogue cobbly clay, 8 to 15 percent slopes
Bedrock Depth - Min: 160cm
Watertable Depth - Annual Min:
Drainage Class - Dominant: Well drained

Soil Information

Hydrologic Group - Dominant: D - Soils in this group have high runoff potential when thoroughly wet. Water movement through the soil is restricted or very restricted.

Major components are printed below

Manogue(85%)

horizon H1(0cm to 8cm)	Cobbly clay
horizon H2(8cm to 104cm)	Clay
horizon H3(104cm to 160cm)	Clay
horizon Cr(160cm to 183cm)	Bedrock

Component Description:

Minor map unit components are excluded from this report.

Map Unit: 191 - Manogue cobbly clay, 8 to 15 percent slopes

Component: Manogue (85%)

The Manogue component makes up 85 percent of the map unit. Slopes are 8 to 15 percent. This component is on hills, hills. The parent material consists of colluvium derived from basalt. Depth to a root restrictive layer is greater than 60 inches. The natural drainage class is well drained. Water movement in the most restrictive layer is low. Available water to a depth of 60 inches (or restricted depth) is moderate. Shrink-swell potential is high. This soil is not flooded. It is not ponded. There is no zone of water saturation within a depth of 72 inches. Organic matter content in the surface horizon is about 2 percent. This component is in the R026XY027NV Churning Clay 8-10 P.z. ecological site. Nonirrigated land capability classification is 7s. This soil does not meet hydric criteria. The calcium carbonate equivalent within 40 inches, typically, does not exceed 3 percent. There are no saline horizons within 30 inches of the soil surface.

Component: Xman (5%)

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

Component: Old camp (5%)

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

Component: Reno (5%)

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

Map Unit 192 (0.11%)

Map Unit Name: Manogue cobbly clay, 15 to 30 percent slopes

Bedrock Depth - Min: 160cm

Watertable Depth - Annual Min:

Drainage Class - Dominant: Well drained

Hydrologic Group - Dominant: D - Soils in this group have high runoff potential when thoroughly wet. Water movement through the soil is restricted or very restricted.

Major components are printed below

Manogue(85%)

horizon H1(0cm to 10cm)	Cobbly clay
horizon H2(10cm to 160cm)	Clay
horizon Cr(160cm to 183cm)	Bedrock

Component Description:

Minor map unit components are excluded from this report.

Map Unit: 192 - Manogue cobbly clay, 15 to 30 percent slopes

Component: Manogue (85%)

The Manogue component makes up 85 percent of the map unit. Slopes are 15 to 30 percent. This component is on hills, hills. The parent material consists of colluvium derived from basalt. Depth to a root restrictive layer is greater than 60 inches. The natural drainage class is well drained. Water movement in the most restrictive layer is low. Available water to a depth of 60 inches (or restricted depth) is moderate. Shrink-swell potential is high. This soil is not flooded. It is not ponded. There is no zone of water saturation within a depth of 72 inches. Organic matter content in the surface horizon is about 2 percent. This component is in the

Soil Information

R026XY027NV Churning Clay 8-10 P.z. ecological site. Nonirrigated land capability classification is 7e. This soil does not meet hydric criteria. The calcium carbonate equivalent within 40 inches, typically, does not exceed 3 percent. There are no saline horizons within 30 inches of the soil surface.

Component: Xman (5%)

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

Component: Old camp (5%)

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

Component: Verdico variant (5%)

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

Map Unit 222 (0.72%)

Map Unit Name: Oppio cobbly sandy loam, 15 to 30 percent slopes
Bedrock Depth - Min: 53cm
Watertable Depth - Annual Min:
Drainage Class - Dominant: Well drained
Hydrologic Group - Dominant: D - Soils in this group have high runoff potential when thoroughly wet. Water movement through the soil is restricted or very restricted.

Major components are printed below

Oppio(85%)	
horizon H1(0cm to 8cm)	Cobbly sandy loam
horizon H2(8cm to 53cm)	Gravelly clay
horizon R(53cm to 78cm)	Bedrock

Component Description:

Minor map unit components are excluded from this report.

Map Unit: 222 - Oppio cobbly sandy loam, 15 to 30 percent slopes

Component: Oppio (85%)

The Oppio component makes up 85 percent of the map unit. Slopes are 15 to 30 percent. This component is on hills, hills. The parent material consists of residuum derived from volcanic rocks. Depth to a root restrictive layer, bedrock, lithic, is 20 to 39 inches. The natural drainage class is well drained. Water movement in the most restrictive layer is very low. Available water to a depth of 60 inches (or restricted depth) is very low. Shrink-swell potential is high. This soil is not flooded. It is not ponded. There is no zone of water saturation within a depth of 72 inches. Organic matter content in the surface horizon is about 1 percent. This component is in the R026XY025NV Claypan 8-10 P.z. ecological site. Nonirrigated land capability classification is 6e. This soil does not meet hydric criteria.

Component: Yuko (5%)

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

Component: Old camp (4%)

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

Component: Rock outcrop (3%)

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

Component: Xman (3%)

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

Map Unit 280 (4.63%)

Map Unit Name: Wedekind gravelly loam, 8 to 15 percent slopes
Bedrock Depth - Min: 36cm
Watertable Depth - Annual Min:

Soil Information

Drainage Class - Dominant: Well drained
Hydrologic Group - Dominant: D - Soils in this group have high runoff potential when thoroughly wet. Water movement through the soil is restricted or very restricted.

Major components are printed below

Wedekind(85%)	
horizon H1(0cm to 5cm)	Gravelly loam
horizon H2(5cm to 36cm)	Sandy clay loam
horizon Cr(36cm to 152cm)	Bedrock

Component Description:

Minor map unit components are excluded from this report.

Map Unit: 280 - Wedekind gravelly loam, 8 to 15 percent slopes

Component: Wedekind (85%)

The Wedekind component makes up 85 percent of the map unit. Slopes are 8 to 15 percent. This component is on hills, hills. The parent material consists of residuum derived from volcanic rocks. Depth to a root restrictive layer, bedrock, paralithic, is 10 to 20 inches. The natural drainage class is well drained. Water movement in the most restrictive layer is low. Available water to a depth of 60 inches (or restricted depth) is very low. Shrink-swell potential is moderate. This soil is not flooded. It is not ponded. There is no zone of water saturation within a depth of 72 inches. Organic matter content in the surface horizon is about 2 percent. This component is in the R026XY015NV Shallow Loam 10-12 P.z. ecological site. Nonirrigated land capability classification is 7s. This soil does not meet hydric criteria.

Component: Holbrook (4%)

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

Component: Mizel (4%)

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

Component: Flex (4%)

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

Component: Rock outcrop (3%)

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

Map Unit 281 (0.88%)

Map Unit Name:	Wedekind gravelly loam, 15 to 30 percent slopes
Bedrock Depth - Min:	36cm
Watertable Depth - Annual Min:	
Drainage Class - Dominant:	Well drained
Hydrologic Group - Dominant:	D - Soils in this group have high runoff potential when thoroughly wet. Water movement through the soil is restricted or very restricted.

Major components are printed below

Wedekind(85%)	
horizon H1(0cm to 5cm)	Gravelly loam
horizon H2(5cm to 36cm)	Sandy clay loam
horizon Cr(36cm to 152cm)	Bedrock

Component Description:

Minor map unit components are excluded from this report.

Map Unit: 281 - Wedekind gravelly loam, 15 to 30 percent slopes

Component: Wedekind (85%)

The Wedekind component makes up 85 percent of the map unit. Slopes are 15 to 30 percent. This component is on hills, hills. The parent material consists of residuum derived from volcanic rocks. Depth to a root restrictive layer, bedrock, paralithic, is 10 to 20 inches. The natural drainage class is well drained. Water movement in the most restrictive layer is low. Available water to a depth of

Soil Information

60 inches (or restricted depth) is very low. Shrink-swell potential is moderate. This soil is not flooded. It is not ponded. There is no zone of water saturation within a depth of 72 inches. Organic matter content in the surface horizon is about 2 percent. This component is in the R026XY015NV Shallow Loam 10-12 P.z. ecological site. Nonirrigated land capability classification is 7e. This soil does not meet hydric criteria.

Component: Flex (5%)

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

Component: Mizel (5%)

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

Component: Tristan (5%)

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

Map Unit 301 (1.97%)

Map Unit Name:	Surgem-Rock outcrop complex, 15 to 30 percent slopes
Bedrock Depth - Min:	61cm
Watertable Depth - Annual Min:	
Drainage Class - Dominant:	Well drained
Hydrologic Group - Dominant:	D - Soils in this group have high runoff potential when thoroughly wet. Water movement through the soil is restricted or very restricted.

Major components are printed below

Surgem(75%)

horizon H1(0cm to 13cm)	Very gravelly sandy loam
horizon H2(13cm to 61cm)	Extremely cobbly clay
horizon R(61cm to 86cm)	Bedrock

Component Description:

Minor map unit components are excluded from this report.

Map Unit: 301 - Surgem-Rock outcrop complex, 15 to 30 percent slopes

Component: Surgem (75%)

The Surgem component makes up 75 percent of the map unit. Slopes are 15 to 30 percent. This component is on hills, hills. The parent material consists of residuum derived from granodiorite. Depth to a root restrictive layer, bedrock, lithic, is 20 to 30 inches. The natural drainage class is well drained. Water movement in the most restrictive layer is very low. Available water to a depth of 60 inches (or restricted depth) is very low. Shrink-swell potential is moderate. This soil is not flooded. It is not ponded. There is no zone of water saturation within a depth of 72 inches. Organic matter content in the surface horizon is about 1 percent. This component is in the R026XY023NV Claypan 10-12 P.z. ecological site. Nonirrigated land capability classification is 7s. This soil does not meet hydric criteria.

Component: Rock outcrop (10%)

Generated brief soil descriptions are created for major soil components. The Rock outcrop is a miscellaneous area.

Component: Verdico variant (6%)

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

Component: Acrelane (6%)

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

Component: Graufels (3%)

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

Map Unit 302 (4.09%)

Map Unit Name:	Surgem-Rock outcrop complex, 30 to 50 percent slopes
Bedrock Depth - Min:	61cm

Soil Information

Watertable Depth - Annual Min:

Drainage Class - Dominant:

Well drained

Hydrologic Group - Dominant:

D - Soils in this group have high runoff potential when thoroughly wet. Water movement through the soil is restricted or very restricted.

Major components are printed below

Surgem(65%)

horizon H1(0cm to 15cm)

Very gravelly sandy loam

horizon H2(15cm to 61cm)

Extremely cobbly clay

horizon R(61cm to 86cm)

Bedrock

Component Description:

Minor map unit components are excluded from this report.

Map Unit: 302 - Surgem-Rock outcrop complex, 30 to 50 percent slopes

Component: Surgem (65%)

The Surgem component makes up 65 percent of the map unit. Slopes are 30 to 50 percent. This component is on hills, hills. The parent material consists of residuum derived from granodiorite. Depth to a root restrictive layer, bedrock, lithic, is 20 to 30 inches. The natural drainage class is well drained. Water movement in the most restrictive layer is very low. Available water to a depth of 60 inches (or restricted depth) is very low. Shrink-swell potential is moderate. This soil is not flooded. It is not ponded. There is no zone of water saturation within a depth of 72 inches. Organic matter content in the surface horizon is about 1 percent. This component is in the R026XY023NV Claypan 10-12 P.z. ecological site. Nonirrigated land capability classification is 7s. This soil does not meet hydric criteria.

Component: Rock outcrop (20%)

Generated brief soil descriptions are created for major soil components. The Rock outcrop is a miscellaneous area.

Component: Acrelane (6%)

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

Component: Verdico variant (6%)

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

Component: Graufels (3%)

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

Map Unit 310 (1.65%)

Map Unit Name:

Risley-Rock outcrop complex, 8 to 15 percent slopes

Bedrock Depth - Min:

71cm

Watertable Depth - Annual Min:

Drainage Class - Dominant:

Well drained

Hydrologic Group - Dominant:

D - Soils in this group have high runoff potential when thoroughly wet. Water movement through the soil is restricted or very restricted.

Major components are printed below

Risley(75%)

horizon H1(0cm to 15cm)

Stony loam

horizon H2(15cm to 71cm)

Clay

horizon Cr(71cm to 152cm)

Bedrock

Component Description:

Minor map unit components are excluded from this report.

Map Unit: 310 - Risley-Rock outcrop complex, 8 to 15 percent slopes

Component: Risley (75%)

The Risley component makes up 75 percent of the map unit. Slopes are 8 to 15 percent. This component is on hills, hills. The parent material consists of residuum and colluvium derived from altered volcanic rocks. Depth to a root restrictive layer, bedrock, paralithic, is

Soil Information

20 to 39 inches. The natural drainage class is well drained. Water movement in the most restrictive layer is moderately low. Available water to a depth of 60 inches (or restricted depth) is low. Shrink-swell potential is high. This soil is not flooded. It is not ponded. There is no zone of water saturation within a depth of 72 inches. Organic matter content in the surface horizon is about 2 percent. This component is in the R026XY017NV Loamy Hill 10-12 P.z. ecological site. Nonirrigated land capability classification is 7s. This soil does not meet hydric criteria. The calcium carbonate equivalent within 40 inches, typically, does not exceed 3 percent.

Component: Rock outcrop (15%)

Generated brief soil descriptions are created for major soil components. The Rock outcrop is a miscellaneous area.

Component: Old camp (3%)

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

Component: Mizel (3%)

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

Component: Indiano (3%)

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

Component: Xman (1%)

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

Map Unit 311 (2.66%)

Map Unit Name: Risley-Rock outcrop complex, 15 to 30 percent slopes

Bedrock Depth - Min: 71cm

Watertable Depth - Annual Min:

Drainage Class - Dominant: Well drained

Hydrologic Group - Dominant: D - Soils in this group have high runoff potential when thoroughly wet. Water movement through the soil is restricted or very restricted.

Major components are printed below

Risley(65%)

horizon H1(0cm to 15cm)	Stony loam
horizon H2(15cm to 71cm)	Clay
horizon Cr(71cm to 152cm)	Bedrock

Component Description:

Minor map unit components are excluded from this report.

Map Unit: 311 - Risley-Rock outcrop complex, 15 to 30 percent slopes

Component: Risley (65%)

The Risley component makes up 65 percent of the map unit. Slopes are 15 to 30 percent. This component is on hills, hills. The parent material consists of residuum and colluvium derived from altered volcanic rocks. Depth to a root restrictive layer, bedrock, paralithic, is 20 to 39 inches. The natural drainage class is well drained. Water movement in the most restrictive layer is moderately low. Available water to a depth of 60 inches (or restricted depth) is low. Shrink-swell potential is high. This soil is not flooded. It is not ponded. There is no zone of water saturation within a depth of 72 inches. Organic matter content in the surface horizon is about 2 percent. This component is in the R026XY017NV Loamy Hill 10-12 P.z. ecological site. Nonirrigated land capability classification is 7s. This soil does not meet hydric criteria. The calcium carbonate equivalent within 40 inches, typically, does not exceed 3 percent.

Component: Rock outcrop (25%)

Generated brief soil descriptions are created for major soil components. The Rock outcrop is a miscellaneous area.

Component: Old camp (3%)

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

Component: Mizel (3%)

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

Component: Indiano (2%)

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

Soil Information

Component: Xman (2%)

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

Map Unit 312 (3.38%)

Map Unit Name: Risley cobbly loam, 15 to 30 percent slopes
Bedrock Depth - Min: 71cm
Watertable Depth - Annual Min:
Drainage Class - Dominant: Well drained
Hydrologic Group - Dominant: D - Soils in this group have high runoff potential when thoroughly wet. Water movement through the soil is restricted or very restricted.

Major components are printed below

Risley(85%)
horizon H1(0cm to 15cm) Cobbly loam
horizon H2(15cm to 71cm) Clay
horizon Cr(71cm to 152cm) Bedrock

Component Description:

Minor map unit components are excluded from this report.

Map Unit: 312 - Risley cobbly loam, 15 to 30 percent slopes

Component: Risley (85%)

The Risley component makes up 85 percent of the map unit. Slopes are 15 to 30 percent. This component is on hills, hills. The parent material consists of residuum and colluvium derived from altered volcanic rocks. Depth to a root restrictive layer, bedrock, paralithic, is 20 to 39 inches. The natural drainage class is well drained. Water movement in the most restrictive layer is moderately low. Available water to a depth of 60 inches (or restricted depth) is low. Shrink-swell potential is high. This soil is not flooded. It is not ponded. There is no zone of water saturation within a depth of 72 inches. Organic matter content in the surface horizon is about 2 percent. This component is in the R026XY017NV Loamy Hill 10-12 P.z. ecological site. Nonirrigated land capability classification is 7s. This soil does not meet hydric criteria. The calcium carbonate equivalent within 40 inches, typically, does not exceed 3 percent.

Component: Rock outcrop (4%)

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

Component: Old camp (4%)

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

Component: Mizel (4%)

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

Component: Indiano (3%)

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

Map Unit 341 (3.57%)

Map Unit Name: Yuko stony loam, 15 to 30 percent slopes
Bedrock Depth - Min: 23cm
Watertable Depth - Annual Min:
Drainage Class - Dominant: Well drained
Hydrologic Group - Dominant: D - Soils in this group have high runoff potential when thoroughly wet. Water movement through the soil is restricted or very restricted.

Major components are printed below

Yuko(85%)
horizon H1(0cm to 8cm) Stony loam
horizon H2(8cm to 23cm) Silty clay loam
horizon Cr(23cm to 152cm) Bedrock

Soil Information

Component Description:

Minor map unit components are excluded from this report.

Map Unit: 341 - Yuko stony loam, 15 to 30 percent slopes

Component: Yuko (85%)

The Yuko component makes up 85 percent of the map unit. Slopes are 15 to 30 percent. This component is on hills, hills. The parent material consists of residuum and colluvium derived from andesite. Depth to a root restrictive layer, bedrock, paralithic, is 6 to 14 inches. The natural drainage class is well drained. Water movement in the most restrictive layer is low. Available water to a depth of 60 inches (or restricted depth) is very low. Shrink-swell potential is low. This soil is not flooded. It is not ponded. There is no zone of water saturation within a depth of 72 inches. Organic matter content in the surface horizon is about 2 percent. This component is in the R026XY011NV South Slope 8-12 P.z. ecological site. Nonirrigated land capability classification is 7s. This soil does not meet hydric criteria. There are no saline horizons within 30 inches of the soil surface.

Component: Oppio (6%)

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

Component: Koontz (6%)

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

Component: Rock outcrop (3%)

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

Map Unit 360 (0.69%)

Map Unit Name: Pits

Bedrock Depth - Min:

Watertable Depth - Annual Min:

Drainage Class - Dominant:

Hydrologic Group - Dominant:

Major components are printed below

Pits(100%)

horizon H1(0cm to 152cm) Variable

Component Description:

Minor map unit components are excluded from this report.

Map Unit: 360 - Pits

Component: Pits (100%)

Generated brief soil descriptions are created for major soil components. The Pits is a miscellaneous area.

Map Unit 862 (0.26%)

Map Unit Name: Reywat very cobbly sandy loam, 8 to 15 percent slopes

Bedrock Depth - Min: 48cm

Watertable Depth - Annual Min:

Drainage Class - Dominant: Well drained

Hydrologic Group - Dominant: D - Soils in this group have high runoff potential when thoroughly wet. Water movement through the soil is restricted or very restricted.

Major components are printed below

Reywat(90%)

horizon H1(0cm to 15cm) Very cobbly sandy loam

horizon H2(15cm to 48cm) Very gravelly clay loam

horizon R(48cm to 75cm) Bedrock

Soil Information

Component Description:

Minor map unit components are excluded from this report.

Map Unit: 862 - Reywat very cobbly sandy loam, 8 to 15 percent slopes

Component: Reywat (90%)

The Reywat component makes up 90 percent of the map unit. Slopes are 8 to 15 percent. This component is on hills, hills. The parent material consists of residuum and colluvium derived from volcanic rocks. Depth to a root restrictive layer, bedrock, lithic, is 10 to 20 inches. The natural drainage class is well drained. Water movement in the most restrictive layer is very low. Available water to a depth of 60 inches (or restricted depth) is very low. Shrink-swell potential is moderate. This soil is not flooded. It is not ponded. There is no zone of water saturation within a depth of 72 inches. Organic matter content in the surface horizon is about 2 percent. This component is in the R026XY015NV Shallow Loam 10-12 P.z. ecological site. Nonirrigated land capability classification is 6s. This soil does not meet hydric criteria.

Component: Yuko (4%)

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

Component: Risley (3%)

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

Component: Old camp (3%)

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

Map Unit 873 (0.29%)

Map Unit Name:	Xman-Rock outcrop complex, 30 to 50 percent slopes
Bedrock Depth - Min:	36cm
Watertable Depth - Annual Min:	
Drainage Class - Dominant:	Well drained
Hydrologic Group - Dominant:	D - Soils in this group have high runoff potential when thoroughly wet. Water movement through the soil is restricted or very restricted.
Major components are printed below	
Xman(60%)	
horizon H1(0cm to 5cm)	Very stony sandy loam
horizon H2(5cm to 36cm)	Clay
horizon Cr(36cm to 74cm)	Bedrock
horizon R(74cm to 99cm)	Bedrock

Component Description:

Minor map unit components are excluded from this report.

Map Unit: 873 - Xman-Rock outcrop complex, 30 to 50 percent slopes

Component: Xman (60%)

The Xman component makes up 60 percent of the map unit. Slopes are 30 to 50 percent. This component is on hills, hills. The parent material consists of residuum derived from volcanic rocks. Depth to a root restrictive layer, bedrock, paralithic, is 10 to 20 inches. The natural drainage class is well drained. Water movement in the most restrictive layer is very low. Available water to a depth of 60 inches (or restricted depth) is very low. Shrink-swell potential is high. This soil is not flooded. It is not ponded. There is no zone of water saturation within a depth of 72 inches. Organic matter content in the surface horizon is about 2 percent. This component is in the R026XY025NV Claypan 8-10 P.z. ecological site. Nonirrigated land capability classification is 7s. This soil does not meet hydric criteria.

Component: Rock outcrop (25%)

Generated brief soil descriptions are created for major soil components. The Rock outcrop is a miscellaneous area.

Component: Risley (6%)

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

Component: Old camp (5%)

Soil Information

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

Component: Manogue (4%)

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

Map Unit 880 (24.42%)

Map Unit Name: Zephan-Rock outcrop-Smallcone complex, 15 to 50 percent slopes
Bedrock Depth - Min: 15cm
Watertable Depth - Annual Min:
Drainage Class - Dominant: Well drained
Hydrologic Group - Dominant: D - Soils in this group have high runoff potential when thoroughly wet. Water movement through the soil is restricted or very restricted.

Major components are printed below

Zephan(30%)	
horizon H1(0cm to 20cm)	Very gravelly sandy loam
horizon H2(20cm to 89cm)	Very cobbly clay
horizon Cr(89cm to 107cm)	Bedrock
horizon R(107cm to 132cm)	Bedrock
Smallcone(25%)	
horizon H1(0cm to 15cm)	Very gravelly sandy loam
horizon Cr(15cm to 152cm)	Bedrock

Component Description:

Minor map unit components are excluded from this report.

Map Unit: 880 - Zephan-Rock outcrop-Smallcone complex, 15 to 50 percent slopes

Component: Zephan (35%)

The Zephan component makes up 30 percent of the map unit. Slopes are 15 to 50 percent. This component is on hills on hills. The parent material consists of colluvium derived from volcanic rock and/or residuum weathered from volcanic rock. Depth to a root restrictive layer, bedrock, paralithic, is 25 to 39 inches. The natural drainage class is well drained. Water movement in the most restrictive layer is very low. Available water to a depth of 60 inches (or restricted depth) is low. Shrink-swell potential is moderate. This soil is not flooded. It is not ponded. There is no zone of water saturation within a depth of 72 inches. Organic matter content in the surface horizon is about 1 percent. This component is in the R026XY017NV Loamy Hill 10-12 P.z. ecological site. Nonirrigated land capability classification is 7s. This soil does not meet hydric criteria. There are no saline horizons within 30 inches of the soil surface.

Component: Smallcone (30%)

The Smallcone component makes up 25 percent of the map unit. Slopes are 15 to 50 percent. This component is on hills on hills. The parent material consists of hydrothermally altered residuum weathered from andesite. Depth to a root restrictive layer, bedrock, paralithic, is 4 to 10 inches. The natural drainage class is well drained. Water movement in the most restrictive layer is low. Available water to a depth of 60 inches (or restricted depth) is very low. Shrink-swell potential is low. This soil is not flooded. It is not ponded. There is no zone of water saturation within a depth of 72 inches. Organic matter content in the surface horizon is about 1 percent. This component is in the F026XY065NV Unspecified ecological site. Nonirrigated land capability classification is 6s. This soil does not meet hydric criteria. There are no saline horizons within 30 inches of the soil surface.

Component: Rock outcrop (20%)

Generated brief soil descriptions are created for major soil components. The Rock outcrop is a miscellaneous area.

Component: Yuko (8%)

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

Component: Xman (7%)

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

Map Unit 881 (2.07%)

Map Unit Name: Zephan very gravelly sandy loam, 30 to 50 percent slopes

Soil Information

Bedrock Depth - Min:	89cm
Watertable Depth - Annual Min:	
Drainage Class - Dominant:	Well drained
Hydrologic Group - Dominant:	D - Soils in this group have high runoff potential when thoroughly wet. Water movement through the soil is restricted or very restricted.

Major components are printed below

Zephan(85%)	
horizon H1(0cm to 20cm)	Very gravelly sandy loam
horizon H2(20cm to 89cm)	Very cobbly clay
horizon Cr(89cm to 107cm)	Bedrock
horizon R(107cm to 132cm)	Bedrock

Component Description:

Minor map unit components are excluded from this report.

Map Unit: 881 - Zephan very gravelly sandy loam, 30 to 50 percent slopes

Component: Zephan (85%)

The Zephan component makes up 85 percent of the map unit. Slopes are 30 to 50 percent. This component is on hills, hills. The parent material consists of residuum and colluvium derived from volcanic rocks. Depth to a root restrictive layer, bedrock, paralithic, is 25 to 39 inches. The natural drainage class is well drained. Water movement in the most restrictive layer is very low. Available water to a depth of 60 inches (or restricted depth) is low. Shrink-swell potential is high. This soil is not flooded. It is not ponded. There is no zone of water saturation within a depth of 72 inches. Organic matter content in the surface horizon is about 1 percent. This component is in the R026XY017NV Loamy Hill 10-12 P.z. ecological site. Nonirrigated land capability classification is 7s. This soil does not meet hydric criteria.

Component: Yuko (6%)

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

Component: Xman (5%)

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

Component: Rock outcrop (4%)

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

Map Unit 882 (1.01%)

Map Unit Name:	Zephan stony sandy loam, 15 to 30 percent slopes
Bedrock Depth - Min:	89cm
Watertable Depth - Annual Min:	
Drainage Class - Dominant:	Well drained
Hydrologic Group - Dominant:	D - Soils in this group have high runoff potential when thoroughly wet. Water movement through the soil is restricted or very restricted.

Major components are printed below

Zephan(85%)	
horizon H1(0cm to 20cm)	Stony sandy loam
horizon H2(20cm to 89cm)	Very cobbly clay
horizon Cr(89cm to 107cm)	Bedrock
horizon R(107cm to 132cm)	Bedrock

Component Description:

Minor map unit components are excluded from this report.

Map Unit: 882 - Zephan stony sandy loam, 15 to 30 percent slopes

Component: Zephan (85%)

The Zephan component makes up 85 percent of the map unit. Slopes are 15 to 30 percent. This component is on hills, hills. The

Soil Information

parent material consists of residuum and colluvium derived from volcanic rocks. Depth to a root restrictive layer, bedrock, paralithic, is 25 to 39 inches. The natural drainage class is well drained. Water movement in the most restrictive layer is very low. Available water to a depth of 60 inches (or restricted depth) is low. Shrink-swell potential is high. This soil is not flooded. It is not ponded. There is no zone of water saturation within a depth of 72 inches. Organic matter content in the surface horizon is about 1 percent. This component is in the R026XY017NV Loamy Hill 10-12 P.z. ecological site. Nonirrigated land capability classification is 6s. This soil does not meet hydric criteria.

Component: Yuko (6%)

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

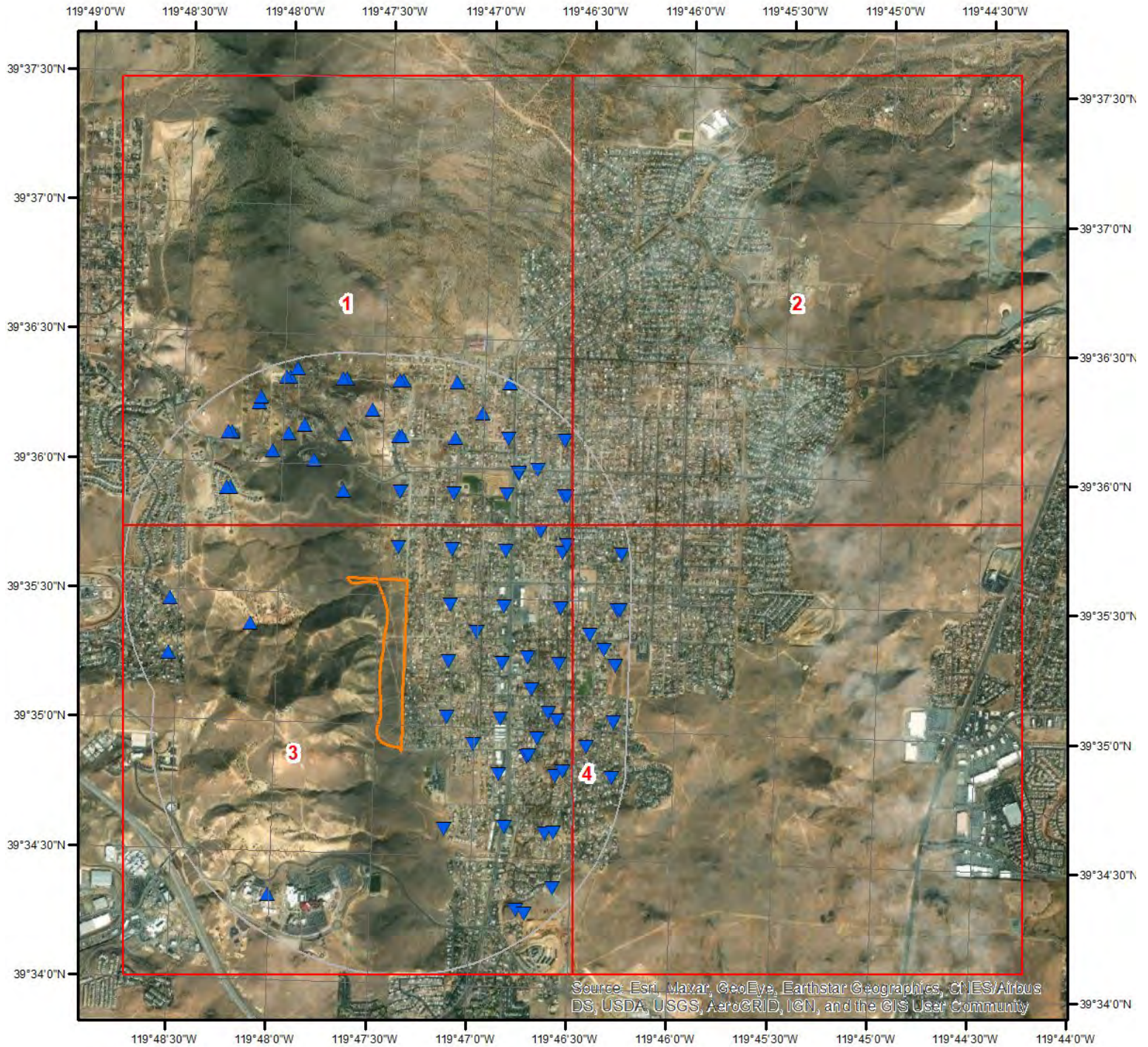
Component: Xman (5%)

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

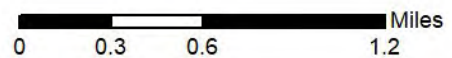
Component: Rock outcrop (4%)

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

Wells and Additional Sources



Wells & Additional Sources



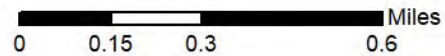
- | | |
|--------------------------------|------------------------------------|
| ▲ Sites with Higher Elevation | ▲ OGW Sites with Higher Elevation |
| ■ Sites with Same Elevation | ■ OGW Sites with Same Elevation |
| ▼ Sites with Lower Elevation | ▼ OGW Sites with Lower Elevation |
| ○ Sites with Unknown Elevation | ● OGW Sites with Unknown Elevation |



Wells and Additional Sources



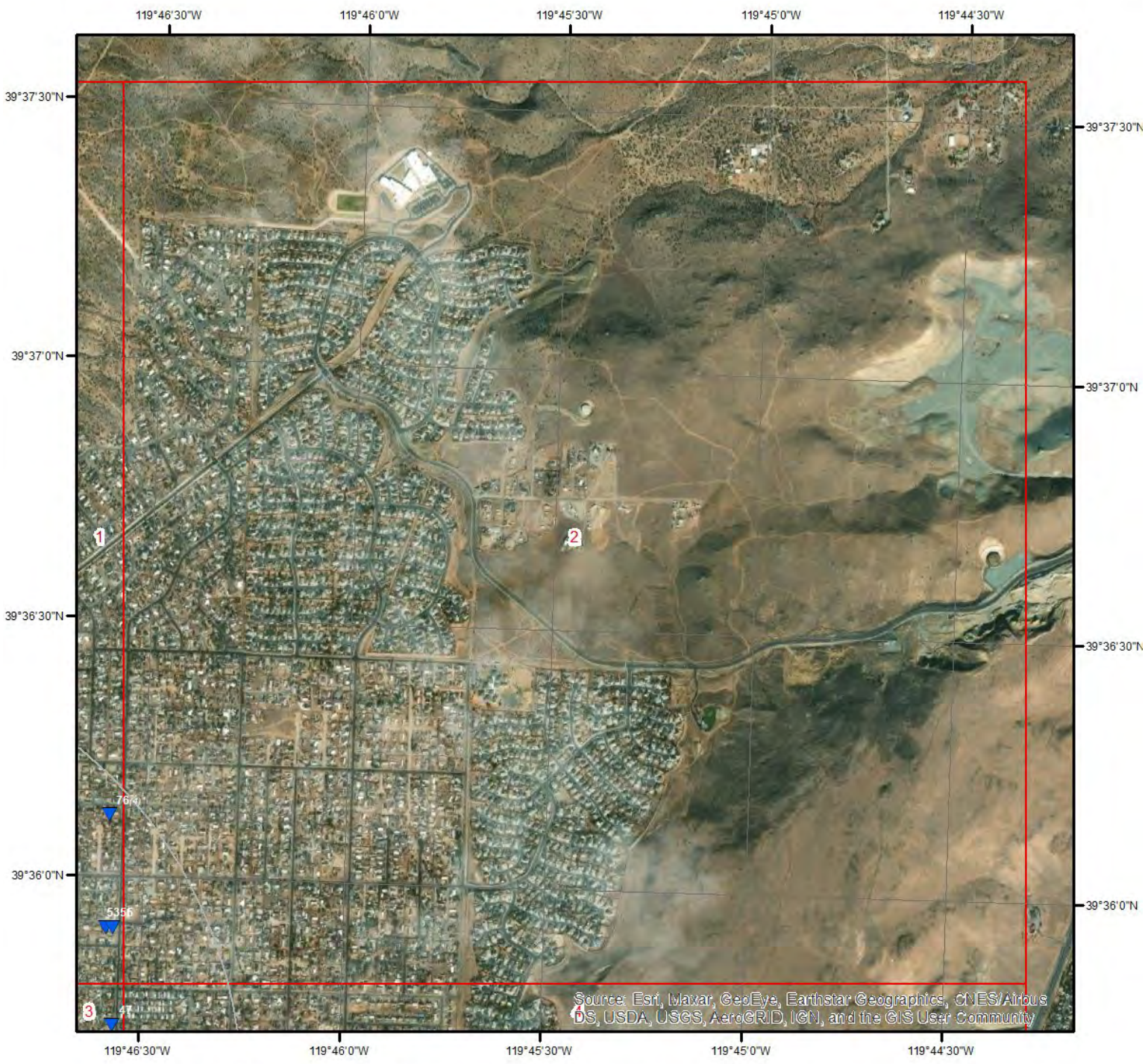
Wells & Additional Sources - Page 1



- | | |
|--------------------------------|------------------------------------|
| ▲ Sites with Higher Elevation | ▲ OGW Sites with Higher Elevation |
| ■ Sites with Same Elevation | ■ OGW Sites with Same Elevation |
| ▼ Sites with Lower Elevation | ▼ OGW Sites with Lower Elevation |
| ○ Sites with Unknown Elevation | ● OGW Sites with Unknown Elevation |

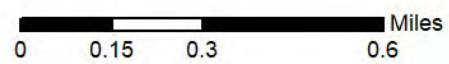


Wells and Additional Sources



Source: Esri, Maxar, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

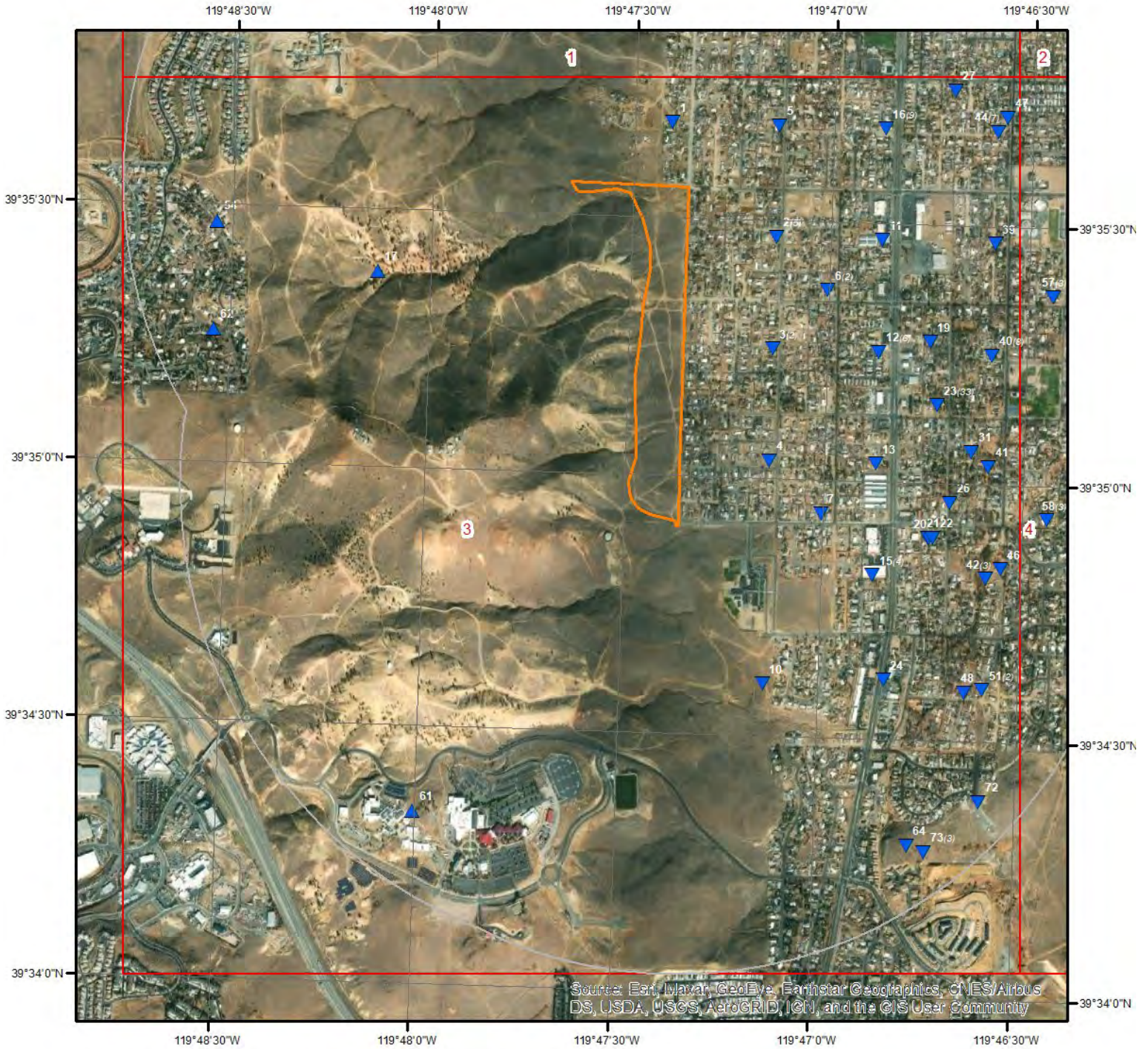
Wells & Additional Sources - Page 2



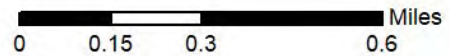
- | | |
|--------------------------------|------------------------------------|
| ▲ Sites with Higher Elevation | ▲ OGW Sites with Higher Elevation |
| ■ Sites with Same Elevation | ■ OGW Sites with Same Elevation |
| ▼ Sites with Lower Elevation | ▼ OGW Sites with Lower Elevation |
| ○ Sites with Unknown Elevation | ● OGW Sites with Unknown Elevation |



Wells and Additional Sources



Wells & Additional Sources - Page 3



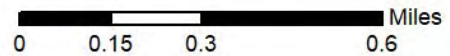
- | | |
|--------------------------------|------------------------------------|
| ▲ Sites with Higher Elevation | ▲ OGW Sites with Higher Elevation |
| ■ Sites with Same Elevation | ■ OGW Sites with Same Elevation |
| ▼ Sites with Lower Elevation | ▼ OGW Sites with Lower Elevation |
| ○ Sites with Unknown Elevation | ● OGW Sites with Unknown Elevation |



Wells and Additional Sources



Wells & Additional Sources - Page 4



- | | |
|--------------------------------|------------------------------------|
| ▲ Sites with Higher Elevation | ▲ OGW Sites with Higher Elevation |
| ■ Sites with Same Elevation | ■ OGW Sites with Same Elevation |
| ▼ Sites with Lower Elevation | ▼ OGW Sites with Lower Elevation |
| ○ Sites with Unknown Elevation | ● OGW Sites with Unknown Elevation |



Wells and Additional Sources Summary

Federal Sources

Public Water Systems Violations and Enforcement Data

Map Key	PWS ID	Distance (ft)	Direction
24	NV0000211	3024.44	SE
62	NV0000205	4558.06	W

Safe Drinking Water Information System (SDWIS)

Map Key	ID	Distance (ft)	Direction
No records found			

USGS National Water Information System

Map Key	Monitoring Loc Identifier	Distance (ft)	Direction
17	USGS-393450119502401	2515.38	WNW
26	USGS-393458119465601	3189.31	ESE
27	USGS-393546119465601	3334.04	NE
31	USGS-393504119463401	3427.61	ESE
47	USGS-393543119463001	3840.57	ENE
48	USGS-393441119470401	3901.26	SE
61	USGS-393420119480001	4450.12	SSW
64	USGS-393418119464201	4632.29	SSE
65	USGS-393519119461801	4675.40	E

State Sources

Oil and Gas Wells

Map Key	ID	Distance (ft)	Direction
No records found			

Well Log Database

Map Key	Well Log	Distance (ft)	Direction
1	38341	741.75	N
2	14941	1045.65	NE
2	4725	1045.65	NE
2	7245	1045.65	NE
2	2953	1045.65	NE
2	1348	1045.65	NE
3	4239	1050.30	E
3	4240	1050.30	E
4	4129	1052.58	SE
5	2522	1282.08	NNE
6	5955	1673.78	ENE
6	2952	1673.78	ENE
7	1347	1676.20	SE
8	32207	2048.51	NNW
9	43130	2056.57	N

Wells and Additional Sources Summary

10	7845	2117.64	SSE
11	4713	2297.57	ENE
12	6908	2302.14	E
12	6233	2302.14	E
12	4119	2302.14	E
12	4527	2302.14	E
12	7819	2302.14	E
12	4409	2302.14	E
13	5017	2304.43	ESE
14	6227	2308.74	NNE
14	5531	2308.74	NNE
15	4840	2360.32	SE
15	1497	2360.32	SE
15	4841	2360.32	SE
15	5009	2360.32	SE
16	4915	2413.25	NE
16	5188	2413.25	NE
16	4716	2413.25	NE
16	3770	2413.25	NE
16	6234	2413.25	NE
16	7816	2413.25	NE
16	5466	2413.25	NE
16	4410	2413.25	NE
16	5183	2413.25	NE
18	92186	2883.18	NNW
18	29485	2883.18	NNW
18	12668	2883.18	NNW
18	19839	2883.18	NNW
18	23518	2883.18	NNW
18	25119	2883.18	NNW
18	26037	2883.18	NNW
19	116566	2904.05	E
20	114814	2944.57	SE
21	114816	2953.24	SE
22	114815	3002.49	SE
23	8533	3011.32	ESE
23	3971	3011.32	ESE
23	1209	3011.32	ESE
23	2845	3011.32	ESE
23	2822	3011.32	ESE
23	887	3011.32	ESE
23	2624	3011.32	ESE
23	8542	3011.32	ESE
23	3681	3011.32	ESE
23	7535	3011.32	ESE
23	1850	3011.32	ESE
23	4425	3011.32	ESE
23	3908	3011.32	ESE
23	2838	3011.32	ESE
23	1263	3011.32	ESE
23	3217	3011.32	ESE
23	8544	3011.32	ESE
23	9571	3011.32	ESE
23	1217	3011.32	ESE
23	15011	3011.32	ESE
23	8547	3011.32	ESE
23	2821	3011.32	ESE
23	3196	3011.32	ESE
23	1216	3011.32	ESE
23	8546	3011.32	ESE
23	2823	3011.32	ESE
23	3270	3011.32	ESE
23	3367	3011.32	ESE
23	2824	3011.32	ESE
23	2842	3011.32	ESE
23	2844	3011.32	ESE

Wells and Additional Sources Summary

23	2049	3011.32	ESE
23	7394	3011.32	ESE
25	5535	3083.85	NE
28	26038	3362.40	NNW
29	32737	3371.82	N
30	30264	3372.78	N
30	32208	3372.78	N
32	103679	3482.86	NNW
33	30046	3483.16	NW
34	5491	3533.30	NNE
35	89476	3547.93	NW
36	120058	3605.63	NE
37	120057	3621.12	NE
38	120059	3621.38	NE
39	6225	3628.92	ENE
40	4244	3633.60	E
40	4116	3633.60	E
40	4243	3633.60	E
40	2354	3633.60	E
40	2356	3633.60	E
40	4528	3633.60	E
40	4115	3633.60	E
40	15041	3633.60	E
41	22751	3635.87	ESE
42	4128	3670.66	SE
42	805	3670.66	SE
42	806	3670.66	SE
43	47929	3674.42	NNW
44	4912	3702.48	ENE
44	4837	3702.48	ENE
44	6231	3702.48	ENE
44	5187	3702.48	ENE
44	6235	3702.48	ENE
44	4842	3702.48	ENE
44	3768	3702.48	ENE
45	126823	3725.81	NNW
46	125136	3828.00	ESE
49	33723	3971.51	N
50	4871	4012.96	NE
50	8539	4012.96	NE
50	3398	4012.96	NE
50	1252	4012.96	NE
50	8540	4012.96	NE
50	7841	4012.96	NE
50	2597	4012.96	NE
50	7840	4012.96	NE
50	5645	4012.96	NE
50	7577	4012.96	NE
50	1405	4012.96	NE
50	8548	4012.96	NE
50	8541	4012.96	NE
50	5094	4012.96	NE
50	7836	4012.96	NE
50	1513	4012.96	NE
50	8545	4012.96	NE
50	3704	4012.96	NE
50	2048	4012.96	NE
50	2484	4012.96	NE
51	6365	4072.29	SE
51	5002	4072.29	SE
52	6902	4082.13	NNE
53	5529	4170.64	NE
54	6615	4194.62	WNW
55	70670	4238.15	NE
56	1208	4318.80	NNE
57	3016	4334.39	E

Wells and Additional Sources Summary

57	3015	4334.39	E
57	3014	4334.39	E
58	5812	4337.09	ESE
58	15014	4337.09	ESE
58	19945	4337.09	ESE
59	25450	4386.50	NW
59	42926	4386.50	NW
59	28944	4386.50	NW
60	17327	4438.10	NW
60	89970	4438.10	NW
63	24559	4621.07	NNW
63	31252	4621.07	NNW
66	30700	4676.26	N
66	48567	4676.26	N
67	9812	4679.54	N
67	4411	4679.54	N
67	21236	4679.54	N
68	67626	4687.59	N
68	30120	4687.59	N
68	31459	4687.59	N
69	96146	4687.68	N
69	96012	4687.68	N
70	123707	4698.92	NNW
71	14943	4805.54	NNE
71	1333	4805.54	NNE
71	67714	4805.54	NNE
72	2018	4811.42	SE
73	12197	4814.60	SSE
73	3460	4814.60	SSE
73	2469	4814.60	SSE
74	26039	4905.40	NNW
74	68653	4905.40	NNW
74	28115	4905.40	NNW
75	22966	4929.47	NNW
75	19982	4929.47	NNW
76	5488	4954.55	NE
76	3272	4954.55	NE
76	8289	4954.55	NE
76	6220	4954.55	NE
77	4880	4960.27	ENE
77	1355	4960.27	ENE
77	6914	4960.27	ENE
77	1382	4960.27	ENE
78	5644	4965.05	E
78	4242	4965.05	E
78	97927	4965.05	E
79	6213	4967.30	ESE
79	807	4967.30	ESE
79	4281	4967.30	ESE
79	6205	4967.30	ESE
80	4130	4992.24	ESE
81	47418	5037.70	ENE
82	125040	5063.47	NNW
83	35078	5090.33	ENE
84	5505	5222.05	NNE
84	78726	5222.05	NNE

Wells and Additional Sources Detail Report

Public Water Systems Violations and Enforcement Data

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
24	SE	0.57	3,024.44	4,651.02	PWSV

Address Line 2: SUN VALLEY WATER
 State Code: NV
 Zip Code: 89433
 City Name: SUN VALLEY
 Address Line 1: 5000 SUN VALLEY BLVD
 PWS ID: NV0000211
 PWS Type Code: CWS
 PWS Type Description: Community Water System
 Primary Source Code: SWP
 Primary Source Desc: Purchased Surface Water
 PWS Activity Code: A
 PWS Activity Description: Active
 PWS Deactivation Date:
 Phone Number: 775-673-7700

--Details--

Population Served Count: 17000
 City Served:
 County Served: Washoe
 State Served: NV
 Zip Code Served:

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
62	W	0.86	4,558.06	5,077.94	PWSV

Address Line 2:
 State Code: NV
 Zip Code: 89506
 City Name: RENO
 Address Line 1: 1895 CAROLYN WAY
 PWS ID: NV0000205
 PWS Type Code: CWS
 PWS Type Description: Community Water System
 Primary Source Code: SWP
 Primary Source Desc: Purchased Surface Water
 PWS Activity Code: I
 PWS Activity Description: Inactive
 PWS Deactivation Date: 30/06/2009
 Phone Number: 775-786-7585

Wells and Additional Sources Detail Report

--Details--

Population Served Count: 1870
 City Served:
 County Served: Washoe
 State Served: NV
 Zip Code Served:

USGS National Water Information System

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
17	WNW	0.48	2,515.38	5,046.48	FED USGS

Organiz Identifier:	USGS-NV	Formation Type:	
Organiz Name:	USGS Nevada Water Science Center	Aquifer Name:	
Well Depth:	214	Aquifer Type:	
Well Depth Unit:	ft	Country Code:	US
Well Hole Depth:		Provider Name:	NWIS
W Hole Depth Unit:		County:	WASHOE
Construction Date:	19680725	Latitude:	39.5896325
Source Map Scale:	250000	Longitude:	-119.8021357
Monitoring Loc Name:	086 N20 E19 24BACC1		
Monitoring Loc Identifier:	USGS-393450119502401		
Monitoring Loc Type:	Well		
Monitoring Loc Desc:			
HUC Eight Digit Code:	16050102		
Drainage Area:			
Drainage Area Unit:			
Contrib Drainage Area:			
Contrib Drainage Area Unit:			
Horizontal Accuracy:	1		
Horizontal Accuracy Unit:	minutes		
Horizontal Collection Mthd:	Interpolated from MAP.		
Horiz Coord Refer System:	NAD83		
Vertical Measure:	5160.00		
Vertical Measure Unit:	feet		
Vertical Accuracy:	1		
Vertical Accuracy Unit:	feet		
Vertical Collection Mthd:	Interpolated from topographic map.		
Vert Coord Refer System:	NGVD29		

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
26	ESE	0.60	3,189.31	4,662.47	FED USGS

Organiz Identifier:	USGS-NV	Formation Type:	
Organiz Name:	USGS Nevada Water Science	Aquifer Name:	

Wells and Additional Sources Detail Report

	Center		
Well Depth:	26	Aquifer Type:	
Well Depth Unit:	ft	Country Code:	US
Well Hole Depth:		Provider Name:	NWIS
W Hole Depth Unit:		County:	WASHOE
Construction Date:		Latitude:	39.5826883
Source Map Scale:	250000	Longitude:	-119.7779678
Monitoring Loc Name:	086 N20 E20 19DC 1		
Monitoring Loc Identifier:	USGS-393458119465601		
Monitoring Loc Type:	Well		
Monitoring Loc Desc:			
HUC Eight Digit Code:	16050102		
Drainage Area:			
Drainage Area Unit:			
Contrib Drainage Area:			
Contrib Drainage Area Unit:			
Horizontal Accuracy:	1		
Horizontal Accuracy Unit:	minutes		
Horizontal Collection Mthd:	Interpolated from MAP.		
Horiz Coord Refer System:	NAD83		
Vertical Measure:	4650.00		
Vertical Measure Unit:	feet		
Vertical Accuracy:	1		
Vertical Accuracy Unit:	feet		
Vertical Collection Mthd:	Interpolated from topographic map.		
Vert Coord Refer System:	NGVD29		

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
27	NE	0.63	3,334.04	4,736.26	FED USGS

Organiz Identifier:	USGS-NV	Formation Type:	
Organiz Name:	USGS Nevada Water Science Center	Aquifer Name:	
Well Depth:	137	Aquifer Type:	
Well Depth Unit:	ft	Country Code:	US
Well Hole Depth:		Provider Name:	NWIS
W Hole Depth Unit:		County:	WASHOE
Construction Date:		Latitude:	39.5960215
Source Map Scale:	250000	Longitude:	-119.7782457
Monitoring Loc Name:	086 N20 E20 18DC 1		
Monitoring Loc Identifier:	USGS-393546119465601		
Monitoring Loc Type:	Well		
Monitoring Loc Desc:			
HUC Eight Digit Code:	16050102		
Drainage Area:			
Drainage Area Unit:			

Wells and Additional Sources Detail Report

Contrib Drainage Area:
 Contrib Drainage Area Unit:
 Horizontal Accuracy: 1
 Horizontal Accuracy Unit: minutes
 Horizontal Collection Mthd: Interpolated from MAP.
 Horiz Coord Refer System: NAD83
 Vertical Measure: 4720.00
 Vertical Measure Unit: feet
 Vertical Accuracy: 1
 Vertical Accuracy Unit: feet
 Vertical Collection Mthd: Interpolated from topographic map.
 Vert Coord Refer System: NGVD29

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
31	ESE	0.65	3,427.61	4,667.11	FED USGS

Organiz Identifier:	USGS-NV	Formation Type:	
Organiz Name:	USGS Nevada Water Science Center	Aquifer Name:	
Well Depth:		Aquifer Type:	
Well Depth Unit:		Country Code:	US
Well Hole Depth:		Provider Name:	NWIS
W Hole Depth Unit:		County:	WASHOE
Construction Date:		Latitude:	39.584355
Source Map Scale:	250000	Longitude:	-119.7771345
Monitoring Loc Name:	086 N20 E20 19AD 2		
Monitoring Loc Identifier:	USGS-393504119463401		
Monitoring Loc Type:	Well		
Monitoring Loc Desc:			
HUC Eight Digit Code:	16050102		
Drainage Area:			
Drainage Area Unit:			
Contrib Drainage Area:			
Contrib Drainage Area Unit:			
Horizontal Accuracy:	1		
Horizontal Accuracy Unit:	minutes		
Horizontal Collection Mthd:	Interpolated from MAP.		
Horiz Coord Refer System:	NAD83		
Vertical Measure:	4670.00		
Vertical Measure Unit:	feet		
Vertical Accuracy:	1		
Vertical Accuracy Unit:	feet		
Vertical Collection Mthd:	Interpolated from topographic map.		
Vert Coord Refer System:	NGVD29		

Wells and Additional Sources Detail Report

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
47	ENE	0.73	3,840.57	4,718.79	FED USGS

Organiz Identifier:	USGS-NV	Formation Type:	
Organiz Name:	USGS Nevada Water Science Center	Aquifer Name:	
Well Depth:	83	Aquifer Type:	
Well Depth Unit:	ft	Country Code:	US
Well Hole Depth:		Provider Name:	NWIS
W Hole Depth Unit:		County:	WASHOE
Construction Date:	19490101	Latitude:	39.5951882
Source Map Scale:	250000	Longitude:	-119.7760234
Monitoring Loc Name:	086 N20 E20 19AD 3		
Monitoring Loc Identifier:	USGS-393543119463001		
Monitoring Loc Type:	Well		
Monitoring Loc Desc:			
HUC Eight Digit Code:	16050102		
Drainage Area:			
Drainage Area Unit:			
Contrib Drainage Area:			
Contrib Drainage Area Unit:			
Horizontal Accuracy:	1		
Horizontal Accuracy Unit:	minutes		
Horizontal Collection Mthd:	Interpolated from MAP.		
Horiz Coord Refer System:	NAD83		
Vertical Measure:	4670.00		
Vertical Measure Unit:	feet		
Vertical Accuracy:	1		
Vertical Accuracy Unit:	feet		
Vertical Collection Mthd:	Interpolated from topographic map.		
Vert Coord Refer System:	NGVD29		

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
48	SE	0.74	3,901.26	4,638.97	FED USGS

Organiz Identifier:	USGS-NV	Formation Type:	
Organiz Name:	USGS Nevada Water Science Center	Aquifer Name:	
Well Depth:	61	Aquifer Type:	
Well Depth Unit:	ft	Country Code:	US
Well Hole Depth:		Provider Name:	NWIS
W Hole Depth Unit:		County:	WASHOE
Construction Date:		Latitude:	39.5765772
Source Map Scale:	250000	Longitude:	-119.7771344
Monitoring Loc Name:	086 N20 E20 30AB 1		

Wells and Additional Sources Detail Report

Monitoring Loc Identifier: USGS-393441119470401
 Monitoring Loc Type: Well
 Monitoring Loc Desc:
 HUC Eight Digit Code: 16050102
 Drainage Area:
 Drainage Area Unit:
 Contrib Drainage Area:
 Contrib Drainage Area Unit:
 Horizontal Accuracy: 1
 Horizontal Accuracy Unit: minutes
 Horizontal Collection Mthd: Interpolated from MAP.
 Horiz Coord Refer System: NAD83
 Vertical Measure: 4630.00
 Vertical Measure Unit: feet
 Vertical Accuracy: 1
 Vertical Accuracy Unit: feet
 Vertical Collection Mthd: Interpolated from topographic map.
 Vert Coord Refer System: NGVD29

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
61	SSW	0.84	4,450.12	5,003.94	FED USGS

Organiz Identifier:	USGS-NV	Formation Type:	
Organiz Name:	USGS Nevada Water Science Center	Aquifer Name:	
Well Depth:		Aquifer Type:	
Well Depth Unit:		Country Code:	US
Well Hole Depth:		Provider Name:	NWIS
W Hole Depth Unit:		County:	WASHOE
Construction Date:		Latitude:	39.5722222
Source Map Scale:	24000	Longitude:	-119.8
Monitoring Loc Name:	092B N20 E19 25BACA1		
Monitoring Loc Identifier:	USGS-393420119480001		
Monitoring Loc Type:	Well		
Monitoring Loc Desc:			
HUC Eight Digit Code:	16050102		
Drainage Area:			
Drainage Area Unit:			
Contrib Drainage Area:			
Contrib Drainage Area Unit:			
Horizontal Accuracy:	1		
Horizontal Accuracy Unit:	minutes		
Horizontal Collection Mthd:	Interpolated from MAP.		
Horiz Coord Refer System:	NAD83		

Wells and Additional Sources Detail Report

Vertical Measure: 5180.
 Vertical Measure Unit: feet
 Vertical Accuracy: 10
 Vertical Accuracy Unit: feet
 Vertical Collection Mthd: Interpolated from topographic map.
 Vert Coord Refer System: NGVD29

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
64	SSE	0.88	4,632.29	4,664.73	FED USGS

Organiz Identifier:	USGS-NV	Formation Type:	
Organiz Name:	USGS Nevada Water Science Center	Aquifer Name:	
Well Depth:	12	Aquifer Type:	
Well Depth Unit:	ft	Country Code:	US
Well Hole Depth:		Provider Name:	NWIS
W Hole Depth Unit:		County:	WASHOE
Construction Date:		Latitude:	39.5715773
Source Map Scale:	250000	Longitude:	-119.7793567
Monitoring Loc Name:	086 N20 E20 30DA 2		
Monitoring Loc Identifier:	USGS-393418119464201		
Monitoring Loc Type:	Well		
Monitoring Loc Desc:			
HUC Eight Digit Code:	16050102		
Drainage Area:			
Drainage Area Unit:			
Contrib Drainage Area:			
Contrib Drainage Area Unit:			
Horizontal Accuracy:	1		
Horizontal Accuracy Unit:	minutes		
Horizontal Collection Mthd:	Interpolated from MAP.		
Horiz Coord Refer System:	NAD83		
Vertical Measure:	4600.00		
Vertical Measure Unit:	feet		
Vertical Accuracy:	1		
Vertical Accuracy Unit:	feet		
Vertical Collection Mthd:	Interpolated from topographic map.		
Vert Coord Refer System:	NGVD29		

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
65	E	0.89	4,675.40	4,684.21	FED USGS

Organiz Identifier:	USGS-NV	Formation Type:	
Organiz Name:	USGS Nevada Water Science Center	Aquifer Name:	

Wells and Additional Sources Detail Report

Well Depth:	83	Aquifer Type:	
Well Depth Unit:	ft	Country Code:	US
Well Hole Depth:		Provider Name:	NWIS
W Hole Depth Unit:		County:	WASHOE
Construction Date:		Latitude:	39.5885216
Source Map Scale:	250000	Longitude:	-119.7726899
Monitoring Loc Name:	086 N20 E20 19AD 1		
Monitoring Loc Identifier:	USGS-393519119461801		
Monitoring Loc Type:	Well		
Monitoring Loc Desc:			
HUC Eight Digit Code:	16050102		
Drainage Area:			
Drainage Area Unit:			
Contrib Drainage Area:			
Contrib Drainage Area Unit:			
Horizontal Accuracy:	1		
Horizontal Accuracy Unit:	seconds		
Horizontal Collection Mthd:	Interpolated from MAP.		
Horiz Coord Refer System:	NAD83		
Vertical Measure:	4670.		
Vertical Measure Unit:	feet		
Vertical Accuracy:	1		
Vertical Accuracy Unit:	feet		
Vertical Collection Mthd:	Interpolated from topographic map.		
Vert Coord Refer System:	NGVD29		

Well Log Database

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
1	N	0.14	741.75	4,818.86	WATER WELLS

Well Log:	38341	Notice of Intent:	21637
Waiver No:		Yield:	
Sequence No:	14078	Drawdown:	
Date Log Rcvd Acc:	D	Hours Pumped:	
Date Log Rcvd:	08/26/1992	Static Wl:	73.0
Well Start Date:		Temperature:	
Well Finish Date:	08/20/1992	Ref:	MD
Edit Status:	F	App:	
Site Type Code:	N	Source Agency:	NV003
Site Type Desc:	New	Owner No:	
Work Type Code:	N	Owner Current:	RANEY, HELEN
Work Type Desc:	New	Driller Lic No:	923
Work Type Rmks:		Contractor Lic No:	22549
Prop Use Code:	H	Contractor Drlr No:	
Prop Use Desc:	Domestic	Contractor Name:	WAYNE DRILLING INC

Wells and Additional Sources Detail Report

Drilling Mthd Code: A	User ID: BJFOSTER
Drilling Mthd Desc: Air Rotary	Parcel No: 082-473-18
Test Method Code:	Lot No:
Test Mthd Desc:	Block No:
Aquifer Desc:	Subdivision Name:
Depth Seal: 50	SC: 32031
Depth Drilled: 140	HA: 086
Depth Bedrock:	Twn: N20
Depth Cased: 140	Legal Twn: 20N
Qual Const Data: F	Rng: E19
Qual Lith Data: F	Legal Rng: 19E
Gravel Pack Top: 0	Sec: 13
Gravel Pack Bot: 0	Sec Quarters: DD
Gravel Packed: Y	Legal Quarters: SE SE
Top Perf: 95	Quarters Seq:
Bottom Perf: 135	Latitude: 39.594722747802734
Perf Intervals: 1	Longitude: 119.79000091552734
Casing Diameter: 6.62	Lat Long Src: NV003
Casing Reductions: 0	Lat Long Acc: T
Update User ID:	Utm X: 260420.2980735373
Date Entry:	Utm Y: 4386287.088711653
Date Update:	Remarks Add:
Date Cmpl Acc: D	
Owner Address: 5535 WAINSCOTT DR SPARKS NV	
Contractor Addr: P O BOX 12370 RENO NV 89510	
Remarks:	

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
2	NE	0.20	1,045.65	4,750.23	WATER WELLS

Well Log: 14941	Notice of Intent: 0
Waiver No:	Yield: 10.0
Sequence No: 95977	Drawdown:
Date Log Rcvd Acc:	Hours Pumped:
Date Log Rcvd:	Static Wl: 26.0
Well Start Date: 05/30/1950	Temperature:
Well Finish Date: 06/08/1950	Ref: MD
Edit Status: F	App:
Site Type Code: N	Source Agency: NV003
Site Type Desc: New	Owner No:
Work Type Code: N	Owner Current: MACY, JOHN
Work Type Desc: New	Driller Lic No: 3
Work Type Rmks:	Contractor Lic No:
Prop Use Code: H	Contractor Drlr No:
Prop Use Desc: Domestic	Contractor Name: MEL MEYER
Drilling Mthd Code: C	User ID: MTHORSON

Wells and Additional Sources Detail Report

Drilling Mthd Desc:	Cable tool	Parcel No:	
Test Method Code:	A	Lot No:	
Test Mthd Desc:	Air Lift	Block No:	
Aquifer Desc:		Subdivision Name:	
Depth Seal:		SC:	32031
Depth Drilled:	170	HA:	087
Depth Bedrock:		Twn:	N20
Depth Cased:	146	Legal Twn:	20N
Qual Const Data:	G	Rng:	E20
Qual Lith Data:	G	Legal Rng:	20E
Gravel Pack Top:		Sec:	19
Gravel Pack Bot:		Sec Quarters:	BB
Gravel Packed:		Legal Quarters:	NW NW
Top Perf:	122	Quarters Seq:	
Bottom Perf:	140	Latitude:	39.59111111111111
Perf Intervals:	1	Longitude:	119.7855555555556
Casing Diameter:	6.0	Lat Long Src:	
Casing Reductions:	0	Lat Long Acc:	M
Update User ID:		Utm X:	260789.573027643
Date Entry:	07/20/2005	Utm Y:	4385874.39007651
Date Update:		Remarks Add:	
Date Cmpl Acc:	D		
Owner Address:			
Contractor Addr:	RENO NV		
Remarks:			

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
2	NE	0.20	1,045.65	4,749.44	WATER WELLS

Well Log:	4725	Notice of Intent:	0
Waiver No:		Yield:	10.0
Sequence No:	82193	Drawdown:	
Date Log Rcvd Acc:	D	Hours Pumped:	
Date Log Rcvd:	07/27/1959	Static Wl:	35.0
Well Start Date:	06/29/1959	Temperature:	
Well Finish Date:	06/30/1959	Ref:	MD
Edit Status:	F	App:	
Site Type Code:	N	Source Agency:	NV003
Site Type Desc:	New	Owner No:	
Work Type Code:	N	Owner Current:	LEACH, CLARENCE
Work Type Desc:	New	Driller Lic No:	287
Work Type Rmks:		Contractor Lic No:	287
Prop Use Code:	H	Contractor Drlr No:	
Prop Use Desc:	Domestic	Contractor Name:	A & B CONTRACTORS
Drilling Mthd Code:	C	User ID:	SCOX
Drilling Mthd Desc:	Cable tool	Parcel No:	

Wells and Additional Sources Detail Report

Test Method Code:	U	Lot No:	
Test Mthd Desc:	Unknown	Block No:	
Aquifer Desc:		Subdivision Name:	
Depth Seal:		SC:	32031
Depth Drilled:	103	HA:	086
Depth Bedrock:		Twn:	N20
Depth Cased:	103	Legal Twn:	20N
Qual Const Data:	G	Rng:	E20
Qual Lith Data:	G	Legal Rng:	20E
Gravel Pack Top:		Sec:	19
Gravel Pack Bot:		Sec Quarters:	BB
Gravel Packed:		Legal Quarters:	NW NW
Top Perf:	60	Quarters Seq:	
Bottom Perf:	100	Latitude:	39.59111022949219
Perf Intervals:	1	Longitude:	119.78555297851562
Casing Diameter:	6.625	Lat Long Src:	NV003
Casing Reductions:	0	Lat Long Acc:	M
Update User ID:		Utm X:	260789.573027643
Date Entry:	05/12/2004	Utm Y:	4385874.39007651
Date Update:		Remarks Add:	
Date Cmpl Acc:	D		
Owner Address:	128 W 4TH AVE SUN VALLEY		
Contractor Addr:	SUN VALLEY		
Remarks:			

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
2	NE	0.20	1,045.65	4,749.44	WATER WELLS

Well Log:	7245	Notice of Intent:	0
Waiver No:		Yield:	
Sequence No:	82178	Drawdown:	
Date Log Rcvd Acc:	D	Hours Pumped:	
Date Log Rcvd:	06/24/1963	Static WI:	72.0
Well Start Date:	02/14/1963	Temperature:	
Well Finish Date:	02/25/1963	Ref:	MD
Edit Status:	F	App:	
Site Type Code:	N	Source Agency:	NV003
Site Type Desc:	New	Owner No:	
Work Type Code:	N	Owner Current:	MURPHY, ROBERT W
Work Type Desc:	New	Driller Lic No:	359
Work Type Rmks:		Contractor Lic No:	359
Prop Use Code:	H	Contractor Drlr No:	
Prop Use Desc:	Domestic	Contractor Name:	R W GIBSON
Drilling Mthd Code:	C	User ID:	SCOX
Drilling Mthd Desc:	Cable tool	Parcel No:	
Test Method Code:		Lot No:	

Wells and Additional Sources Detail Report

Test Mthd Desc:		Block No:	
Aquifer Desc:		Subdivision Name:	
Depth Seal:		SC:	32031
Depth Drilled:	185	HA:	086
Depth Bedrock:		Twn:	N20
Depth Cased:	185	Legal Twn:	20N
Qual Const Data:	G	Rng:	E20
Qual Lith Data:	G	Legal Rng:	20E
Gravel Pack Top:		Sec:	19
Gravel Pack Bot:		Sec Quarters:	BB
Gravel Packed:		Legal Quarters:	NW NW
Top Perf:	145	Quarters Seq:	
Bottom Perf:	185	Latitude:	39.59111022949219
Perf Intervals:	1	Longitude:	119.78555297851562
Casing Diameter:	6.0	Lat Long Src:	NV003
Casing Reductions:	0	Lat Long Acc:	M
Update User ID:		Utm X:	260789.573027643
Date Entry:	05/12/2004	Utm Y:	4385874.39007651
Date Update:		Remarks Add:	
Date Cmpl Acc:	D		
Owner Address:	235 SIDEHILL DR SUN VALLEY		
Contractor Addr:	465 SIDEHILL DR SUN VALLEY		
Remarks:			

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
2	NE	0.20	1,045.65	4,749.44	WATER WELLS

Well Log:	2953	Notice of Intent:	0
Waiver No:		Yield:	5.0
Sequence No:	82221	Drawdown:	40.0
Date Log Rcvd Acc:	D	Hours Pumped:	
Date Log Rcvd:	05/17/1955	Static Wl:	35.0
Well Start Date:	04/04/1955	Temperature:	
Well Finish Date:	04/20/1955	Ref:	MD
Edit Status:	F	App:	
Site Type Code:	N	Source Agency:	NV003
Site Type Desc:	New	Owner No:	
Work Type Code:	N	Owner Current:	FERACI, CHARLES
Work Type Desc:	New	Driller Lic No:	199
Work Type Rmks:		Contractor Lic No:	199
Prop Use Code:	H	Contractor Drlr No:	
Prop Use Desc:	Domestic	Contractor Name:	JAMES FRANCIS
Drilling Mthd Code:	C	User ID:	SCOX
Drilling Mthd Desc:	Cable tool	Parcel No:	
Test Method Code:	P	Lot No:	I
Test Mthd Desc:	Piston Pump	Block No:	

Wells and Additional Sources Detail Report

Aquifer Desc:	Subdivision Name:
Depth Seal:	SC: 32031
Depth Drilled: 140	HA: 086
Depth Bedrock:	Twn: N20
Depth Cased: 140	Legal Twn: 20N
Qual Const Data: G	Rng: E20
Qual Lith Data: G	Legal Rng: 20E
Gravel Pack Top:	Sec: 19
Gravel Pack Bot:	Sec Quarters: BB
Gravel Packed:	Legal Quarters: NW NW
Top Perf: 50	Quarters Seq:
Bottom Perf: 140	Latitude: 39.59111022949219
Perf Intervals: 1	Longitude: 119.78555297851562
Casing Diameter: 6.0	Lat Long Src: NV003
Casing Reductions: 0	Lat Long Acc: M
Update User ID:	Utm X: 260789.573027643
Date Entry: 05/12/2004	Utm Y: 4385874.39007651
Date Update:	Remarks Add:
Date Cmpl Acc: D	
Owner Address: SIDEHILL & CHOCOLATE AVE SUN VALLEY	
Contractor Addr: SUN VALLEY	
Remarks:	

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
2	NE	0.20	1,045.65	4,749.44	WATER WELLS

Well Log: 1348	Notice of Intent: 0
Waiver No:	Yield: 10.0
Sequence No: 82239	Drawdown:
Date Log Rcvd Acc: D	Hours Pumped:
Date Log Rcvd: 06/29/1950	Static WI: 26.0
Well Start Date: 05/30/1950	Temperature:
Well Finish Date: 06/08/1950	Ref: MD
Edit Status: F	App:
Site Type Code: N	Source Agency: NV003
Site Type Desc: New	Owner No:
Work Type Code: N	Owner Current: MACY, JOHN
Work Type Desc: New	Driller Lic No: 3
Work Type Rmks:	Contractor Lic No: 3
Prop Use Code: H	Contractor Drlr No:
Prop Use Desc: Domestic	Contractor Name: MEL MEYER
Drilling Mthd Code: C	User ID: SCOX
Drilling Mthd Desc: Cable tool	Parcel No:
Test Method Code: A	Lot No:
Test Mthd Desc: Air Lift	Block No:
Aquifer Desc:	Subdivision Name:

Wells and Additional Sources Detail Report

Depth Seal:		SC:	32031
Depth Drilled:	170	HA:	086
Depth Bedrock:		Twn:	N20
Depth Cased:	146	Legal Twn:	20N
Qual Const Data:	G	Rng:	E20
Qual Lith Data:	G	Legal Rng:	20E
Gravel Pack Top:		Sec:	19
Gravel Pack Bot:		Sec Quarters:	BB
Gravel Packed:		Legal Quarters:	NW NW
Top Perf:	122	Quarters Seq:	
Bottom Perf:	140	Latitude:	39.59111022949219
Perf Intervals:	1	Longitude:	119.78555297851562
Casing Diameter:	6.0	Lat Long Src:	NV003
Casing Reductions:	0	Lat Long Acc:	M
Update User ID:	SCOX	Utm X:	260789.573027643
Date Entry:	05/12/2004	Utm Y:	4385874.39007651
Date Update:	06/02/2004	Remarks Add:	
Date Cmpl Acc:	D		
Owner Address:	SUN VALLEY		
Contractor Addr:	RENO		
Remarks:			

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
3	E	0.20	1,050.30	4,734.20	WATER WELLS

Well Log:	4239	Notice of Intent:	0
Waiver No:		Yield:	7.0
Sequence No:	82204	Drawdown:	
Date Log Rcvd Acc:	D	Hours Pumped:	
Date Log Rcvd:	09/15/1958	Static Wl:	60.0
Well Start Date:	08/17/1958	Temperature:	
Well Finish Date:	08/21/1958	Ref:	MD
Edit Status:	F	App:	
Site Type Code:	E	Source Agency:	NV003
Site Type Desc:	Existing (Deepen)	Owner No:	
Work Type Code:	D	Owner Current:	SEGUIRA, MANUEL
Work Type Desc:	Deepen	Driller Lic No:	287
Work Type Rmks:		Contractor Lic No:	287
Prop Use Code:	H	Contractor Drlr No:	
Prop Use Desc:	Domestic	Contractor Name:	M ARTLIP
Drilling Mthd Code:	C	User ID:	SCOX
Drilling Mthd Desc:	Cable tool	Parcel No:	
Test Method Code:	U	Lot No:	
Test Mthd Desc:	Unknown	Block No:	
Aquifer Desc:		Subdivision Name:	
Depth Seal:		SC:	32031

Wells and Additional Sources Detail Report

Depth Drilled:	190	HA:	086
Depth Bedrock:		Twn:	N20
Depth Cased:		Legal Twn:	20N
Qual Const Data:	G	Rng:	E20
Qual Lith Data:	G	Legal Rng:	20E
Gravel Pack Top:		Sec:	19
Gravel Pack Bot:		Sec Quarters:	BC
Gravel Packed:		Legal Quarters:	SW NW
Top Perf:		Quarters Seq:	
Bottom Perf:		Latitude:	39.58749771118164
Perf Intervals:	1	Longitude:	119.78555297851562
Casing Diameter:		Lat Long Src:	NV003
Casing Reductions:	0	Lat Long Acc:	M
Update User ID:	SCOX	Utm X:	260777.143676863
Date Entry:	05/12/2004	Utm Y:	4385473.5381086
Date Update:	06/02/2004	Remarks Add:	
Date Cmpl Acc:	D		
Owner Address:	SUN VALLEY		
Contractor Addr:	SUN VALLEY		
Remarks:			

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
3	E	0.20	1,050.30	4,734.20	WATER WELLS

Well Log:	4240	Notice of Intent:	0
Waiver No:		Yield:	12.0
Sequence No:	82203	Drawdown:	
Date Log Rcvd Acc:	D	Hours Pumped:	
Date Log Rcvd:	09/15/1958	Static Wl:	47.0
Well Start Date:	08/16/1958	Temperature:	
Well Finish Date:	08/17/1958	Ref:	MD
Edit Status:	F	App:	
Site Type Code:	E	Source Agency:	NV003
Site Type Desc:	Existing (Deepen)	Owner No:	
Work Type Code:	O	Owner Current:	INGERSOLL, GEORGE
Work Type Desc:	Other (exp rmks)	Driller Lic No:	287
Work Type Rmks:		Contractor Lic No:	287
Prop Use Code:	H	Contractor Drlr No:	
Prop Use Desc:	Domestic	Contractor Name:	M ARTLIP
Drilling Mthd Code:	C	User ID:	SCOX
Drilling Mthd Desc:	Cable tool	Parcel No:	
Test Method Code:	U	Lot No:	
Test Mthd Desc:	Unknown	Block No:	
Aquifer Desc:		Subdivision Name:	
Depth Seal:		SC:	32031
Depth Drilled:	96	HA:	086

Wells and Additional Sources Detail Report

Depth Bedrock:		TwN:	N20
Depth Cased:	96	Legal TwN:	20N
Qual Const Data:	G	Rng:	E20
Qual Lith Data:	G	Legal Rng:	20E
Gravel Pack Top:		Sec:	19
Gravel Pack Bot:		Sec Quarters:	BC
Gravel Packed:		Legal Quarters:	SW NW
Top Perf:	56	Quarters Seq:	
Bottom Perf:	96	Latitude:	39.58749771118164
Perf Intervals:	1	Longitude:	119.78555297851562
Casing Diameter:	6.0	Lat Long Src:	NV003
Casing Reductions:	0	Lat Long Acc:	M
Update User ID:	SCOX	Utm X:	260777.143676863
Date Entry:	05/12/2004	Utm Y:	4385473.5381086
Date Update:	06/02/2004	Remarks Add:	
Date Cmpl Acc:	D		
Owner Address:	140 W 3RD AVE SUN VALLEY		
Contractor Addr:	SUN VALLEY		
Remarks:	WORK TYPE=CLEANED AND CASED		

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
4	SE	0.20	1,052.58	4,757.88	WATER WELLS

Well Log:	4129	Notice of Intent:	0
Waiver No:		Yield:	
Sequence No:	82206	Drawdown:	
Date Log Rcvd Acc:	D	Hours Pumped:	
Date Log Rcvd:	06/27/1958	Static WI:	
Well Start Date:	04/25/1958	Temperature:	
Well Finish Date:	04/26/1958	Ref:	MD
Edit Status:	F	App:	
Site Type Code:	N	Source Agency:	NV003
Site Type Desc:	New	Owner No:	
Work Type Code:	N	Owner Current:	BULLARD, C E
Work Type Desc:	New	Driller Lic No:	287
Work Type Rmks:	PROP USE=UNKNOWN	Contractor Lic No:	287
Prop Use Code:	Z	Contractor Drlr No:	
Prop Use Desc:	Other (explain in remarks)	Contractor Name:	M ARTLIP
Drilling Mthd Code:	C	User ID:	SCOX
Drilling Mthd Desc:	Cable tool	Parcel No:	
Test Method Code:		Lot No:	
Test Mthd Desc:		Block No:	
Aquifer Desc:		Subdivision Name:	
Depth Seal:		SC:	32031
Depth Drilled:	105	HA:	086
Depth Bedrock:		TwN:	N20

Wells and Additional Sources Detail Report

Depth Cased:	Legal Twn:	20N
Qual Const Data: G	Rng:	E20
Qual Lith Data: G	Legal Rng:	20E
Gravel Pack Top:	Sec:	19
Gravel Pack Bot:	Sec Quarters:	CB
Gravel Packed:	Legal Quarters:	NW SW
Top Perf:	Quarters Seq:	
Bottom Perf:	Latitude:	39.58388900756836
Perf Intervals: 1	Longitude:	119.78555297851562
Casing Diameter:	Lat Long Src:	NV003
Casing Reductions: 0	Lat Long Acc:	M
Update User ID:	Utm X:	260764.71527939
Date Entry: 05/12/2004	Utm Y:	4385072.68633441
Date Update:	Remarks Add:	
Date Cmpl Acc: D		
Owner Address:		
Contractor Addr: SUN VALLEY		
Remarks: PROP USE=UNKNOWN DRY HOLE		

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
5	NNE	0.24	1,282.08	4,757.16	WATER WELLS

Well Log: 2522	Notice of Intent: 0
Waiver No:	Yield: 8.0
Sequence No: 82154	Drawdown:
Date Log Rcvd Acc: D	Hours Pumped:
Date Log Rcvd: 04/05/1954	Static Wl: 54.0
Well Start Date: 03/30/1954	Temperature:
Well Finish Date: 04/01/1954	Ref: MD
Edit Status: F	App:
Site Type Code: N	Source Agency: NV003
Site Type Desc: New	Owner No:
Work Type Code: N	Owner Current: CATE, ALLEN MILLS JR
Work Type Desc: New	Driller Lic No: 3
Work Type Rmks:	Contractor Lic No: 3
Prop Use Code: H	Contractor Drlr No:
Prop Use Desc: Domestic	Contractor Name: MEL MEYER
Drilling Mthd Code: U	User ID: SCOX
Drilling Mthd Desc: Unknown	Parcel No:
Test Method Code: B	Lot No:
Test Mthd Desc: Bucket	Block No:
Aquifer Desc:	Subdivision Name:
Depth Seal:	SC: 32031
Depth Drilled: 95	HA: 086
Depth Bedrock:	Twn: N20
Depth Cased: 95	Legal Twn: 20N

Wells and Additional Sources Detail Report

Qual Const Data:	G	Rng:	E20
Qual Lith Data:	G	Legal Rng:	20E
Gravel Pack Top:		Sec:	18
Gravel Pack Bot:		Sec Quarters:	CC
Gravel Packed:		Legal Quarters:	SW SW
Top Perf:	73	Quarters Seq:	
Bottom Perf:	93	Latitude:	39.594722747802734
Perf Intervals:	1	Longitude:	119.78555297851562
Casing Diameter:	8.0	Lat Long Src:	NV003
Casing Reductions:	0	Lat Long Acc:	M
Update User ID:	SCOX	Utm X:	260802.003331682
Date Entry:	05/12/2004	Utm Y:	4386275.24223812
Date Update:	05/12/2004	Remarks Add:	
Date Cmpl Acc:	D		
Owner Address:	435 SLOPE DR SUN VALLEY		
Contractor Addr:	190 MOANA LANE RENO		
Remarks:			

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
6	ENE	0.32	1,673.78	4,722.17	WATER WELLS

Well Log:	5955	Notice of Intent:	0
Waiver No:		Yield:	25.0
Sequence No:	82185	Drawdown:	
Date Log Rcvd Acc:	D	Hours Pumped:	
Date Log Rcvd:	06/26/1961	Static Wl:	25.0
Well Start Date:	05/13/1961	Temperature:	
Well Finish Date:	05/14/1961	Ref:	MD
Edit Status:	F	App:	
Site Type Code:	N	Source Agency:	NV003
Site Type Desc:	New	Owner No:	
Work Type Code:	N	Owner Current:	GRISWALL, MARY
Work Type Desc:	New	Driller Lic No:	334
Work Type Rmks:		Contractor Lic No:	334
Prop Use Code:	H	Contractor Drlr No:	
Prop Use Desc:	Domestic	Contractor Name:	G W PETERSON
Drilling Mthd Code:	C	User ID:	SCOX
Drilling Mthd Desc:	Cable tool	Parcel No:	
Test Method Code:	B	Lot No:	
Test Mthd Desc:	Bucket	Block No:	
Aquifer Desc:		Subdivision Name:	
Depth Seal:		SC:	32031
Depth Drilled:	100	HA:	086
Depth Bedrock:		Twn:	N20
Depth Cased:	100	Legal Twn:	20N
Qual Const Data:	G	Rng:	E20

Wells and Additional Sources Detail Report

Qual Lith Data:	G	Legal Rng:	20E
Gravel Pack Top:		Sec:	19
Gravel Pack Bot:		Sec Quarters:	B
Gravel Packed:	Y	Legal Quarters:	NW
Top Perf:	50	Quarters Seq:	
Bottom Perf:	100	Latitude:	39.58944320678711
Perf Intervals:	1	Longitude:	119.78333282470703
Casing Diameter:	6.625	Lat Long Src:	NV003
Casing Reductions:	0	Lat Long Acc:	M
Update User ID:	MDILLON	Utm X:	260974.703335405
Date Entry:	05/12/2004	Utm Y:	4385683.46552066
Date Update:	06/01/2004	Remarks Add:	
Date Cmpl Acc:	D		
Owner Address:	SUN VALLEY		
Contractor Addr:	BOX 663 SPARKS		
Remarks:			

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
6	ENE	0.32	1,673.78	4,722.17	WATER WELLS

Well Log:	2952	Notice of Intent:	0
Waiver No:		Yield:	
Sequence No:	82222	Drawdown:	
Date Log Rcvd Acc:	D	Hours Pumped:	
Date Log Rcvd:	05/17/1955	Static Wl:	38.6
Well Start Date:	04/20/1955	Temperature:	
Well Finish Date:	04/30/1955	Ref:	MD
Edit Status:	F	App:	
Site Type Code:	N	Source Agency:	NV003
Site Type Desc:	New	Owner No:	
Work Type Code:	N	Owner Current:	MOORE, CHESTER
Work Type Desc:	New	Driller Lic No:	199
Work Type Rmks:		Contractor Lic No:	199
Prop Use Code:	H	Contractor Drlr No:	
Prop Use Desc:	Domestic	Contractor Name:	JAMES FRANCIS
Drilling Mthd Code:	C	User ID:	SCOX
Drilling Mthd Desc:	Cable tool	Parcel No:	
Test Method Code:		Lot No:	
Test Mthd Desc:		Block No:	
Aquifer Desc:		Subdivision Name:	
Depth Seal:		SC:	32031
Depth Drilled:	160	HA:	086
Depth Bedrock:		Twn:	N20
Depth Cased:	160	Legal Twn:	20N
Qual Const Data:	G	Rng:	E20
Qual Lith Data:	G	Legal Rng:	20E

Wells and Additional Sources Detail Report

Gravel Pack Top:	Sec:	19
Gravel Pack Bot:	Sec Quarters:	B
Gravel Packed:	Legal Quarters:	NW
Top Perf: 80	Quarters Seq:	
Bottom Perf: 160	Latitude:	39.58944320678711
Perf Intervals: 1	Longitude:	119.78333282470703
Casing Diameter: 8.0	Lat Long Src:	NV003
Casing Reductions: 0	Lat Long Acc:	M
Update User ID: SCOX	Utm X:	260974.703335405
Date Entry: 05/12/2004	Utm Y:	4385683.46552066
Date Update: 06/02/2004	Remarks Add:	
Date Cmpl Acc: D		
Owner Address: SUN VALLEY DR SUN VALLEY		
Contractor Addr: SUN VALLEY		
Remarks: WELL ADD=BETWEEN 3RD & 4TH AVE		

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
7	SE	0.32	1,676.20	4,710.70	WATER WELLS

Well Log: 1347	Notice of Intent:	0
Waiver No:	Yield:	15.0
Sequence No: 82240	Drawdown:	
Date Log Rcvd Acc: D	Hours Pumped:	
Date Log Rcvd: 06/29/1950	Static Wl:	25.0
Well Start Date: 06/09/1950	Temperature:	
Well Finish Date: 06/13/1950	Ref:	MD
Edit Status: F	App:	
Site Type Code: N	Source Agency:	NV003
Site Type Desc: New	Owner No:	
Work Type Code: N	Owner Current:	BROWM, MELVIN
Work Type Desc: New	Driller Lic No:	3
Work Type Rmks:	Contractor Lic No:	3
Prop Use Code: H	Contractor Drlr No:	
Prop Use Desc: Domestic	Contractor Name:	MEL MEYER
Drilling Mthd Code: C	User ID:	SCOX
Drilling Mthd Desc: Cable tool	Parcel No:	
Test Method Code: A	Lot No:	
Test Mthd Desc: Air Lift	Block No:	
Aquifer Desc:	Subdivision Name:	
Depth Seal:	SC:	32031
Depth Drilled: 90	HA:	086
Depth Bedrock:	Twn:	N20
Depth Cased: 90	Legal Twn:	20N
Qual Const Data: G	Rng:	E20
Qual Lith Data: G	Legal Rng:	20E
Gravel Pack Top:	Sec:	19

Wells and Additional Sources Detail Report

Gravel Pack Bot:		Sec Quarters:	C
Gravel Packed:		Legal Quarters:	SW
Top Perf:	70	Quarters Seq:	
Bottom Perf:	88	Latitude:	39.58222198486328
Perf Intervals:	1	Longitude:	119.78333282470703
Casing Diameter:	6.0	Lat Long Src:	NV003
Casing Reductions:	0	Lat Long Acc:	M
Update User ID:	SCOX	Utm X:	260949.866337439
Date Entry:	05/12/2004	Utm Y:	4384881.76224336
Date Update:	06/02/2004	Remarks Add:	
Date Cmpl Acc:	D		
Owner Address:	SUN VALLEY		
Contractor Addr:	120MOANA LANE RENO		
Remarks:			

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
8	NNW	0.39	2,048.51	4,964.70	WATER WELLS

Well Log:	32207	Notice of Intent:	13025
Waiver No:		Yield:	
Sequence No:	7869	Drawdown:	
Date Log Rcvd Acc:	D	Hours Pumped:	
Date Log Rcvd:	08/25/1989	Static WI:	60.0
Well Start Date:		Temperature:	
Well Finish Date:	08/09/1989	Ref:	MD
Edit Status:	F	App:	
Site Type Code:	N	Source Agency:	NV003
Site Type Desc:	New	Owner No:	
Work Type Code:	N	Owner Current:	ALEXANDER, CHRISTY
Work Type Desc:	New	Driller Lic No:	1509
Work Type Rmks:		Contractor Lic No:	15291
Prop Use Code:	H	Contractor Drlr No:	1132
Prop Use Desc:	Domestic	Contractor Name:	AQUA DRILLING & WELL SERVICE
Drilling Mthd Code:	A	User ID:	NAFLECKS
Drilling Mthd Desc:	Air Rotary	Parcel No:	88-220-02
Test Method Code:	C	Lot No:	2
Test Mthd Desc:	Centrifugal Pump	Block No:	
Aquifer Desc:		Subdivision Name:	SUN VALLEY
Depth Seal:	52	SC:	32031
Depth Drilled:	138	HA:	086
Depth Bedrock:		Twn:	N20
Depth Cased:	138	Legal Twn:	20N
Qual Const Data:	G	Rng:	E19
Qual Lith Data:	G	Legal Rng:	19E
Gravel Pack Top:	0	Sec:	13
Gravel Pack Bot:	0	Sec Quarters:	DB

Wells and Additional Sources Detail Report

Gravel Packed:	Y	Legal Quarters:	NW SE
Top Perf:	118	Quarters Seq:	
Bottom Perf:	138	Latitude:	39.598331451416016
Perf Intervals:	1	Longitude:	119.79472351074219
Casing Diameter:	6.62	Lat Long Src:	NV003
Casing Reductions:	0	Lat Long Acc:	T
Update User ID:		Utm X:	260027.2081877329
Date Entry:		Utm Y:	4386700.549271169
Date Update:		Remarks Add:	
Date Cmpl Acc:	D		
Owner Address:	415 CLOUTIER SUN VALLEY NV		
Contractor Addr:	625 SPICE ISL DR STE L SPARKS		
Remarks:	LOT 2		

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
9	N	0.39	2,056.57	4,832.09	WATER WELLS

Well Log:	43130	Notice of Intent:	23372
Waiver No:		Yield:	
Sequence No:	18867	Drawdown:	
Date Log Rcvd Acc:	D	Hours Pumped:	
Date Log Rcvd:	12/29/1993	Static Wl:	80.0
Well Start Date:		Temperature:	
Well Finish Date:	12/15/1993	Ref:	MD
Edit Status:	F	App:	
Site Type Code:	N	Source Agency:	NV003
Site Type Desc:	New	Owner No:	
Work Type Code:	N	Owner Current:	RANEY, HELEN
Work Type Desc:	New	Driller Lic No:	923
Work Type Rmks:		Contractor Lic No:	22549
Prop Use Code:	H	Contractor Drlr No:	
Prop Use Desc:	Domestic	Contractor Name:	WAYNE DRILLING INC
Drilling Mthd Code:	A	User ID:	CGALEJAN
Drilling Mthd Desc:	Air Rotary	Parcel No:	082-473-19
Test Method Code:		Lot No:	
Test Mthd Desc:		Block No:	
Aquifer Desc:		Subdivision Name:	
Depth Seal:	50	SC:	32031
Depth Drilled:	115	HA:	086
Depth Bedrock:		Twn:	N20
Depth Cased:	115	Legal Twn:	20N
Qual Const Data:	F	Rng:	E19
Qual Lith Data:	F	Legal Rng:	19E
Gravel Pack Top:	0	Sec:	13
Gravel Pack Bot:	0	Sec Quarters:	DA
Gravel Packed:	Y	Legal Quarters:	NE SE

Wells and Additional Sources Detail Report

Top Perf:	88	Quarters Seq:	
Bottom Perf:	108	Latitude:	39.598331451416016
Perf Intervals:	1	Longitude:	119.79000091552734
Casing Diameter:	6.62	Lat Long Src:	NV003
Casing Reductions:	0	Lat Long Acc:	T
Update User ID:		Utm X:	260432.74920572838
Date Entry:		Utm Y:	4386687.941352768
Date Update:		Remarks Add:	
Date Cmpl Acc:	D		
Owner Address:	5545 WAINSCOTT DR SUN VALLEY		
Contractor Addr:	P O BOX 12370 RENO NV 89510		
Remarks:			

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
10	SSE	0.40	2,117.64	4,751.32	WATER WELLS

Well Log:	7845	Notice of Intent:	0
Waiver No:		Yield:	
Sequence No:	82335	Drawdown:	
Date Log Rcvd Acc:	D	Hours Pumped:	
Date Log Rcvd:	05/28/1964	Static WI:	
Well Start Date:	01/08/1964	Temperature:	
Well Finish Date:	01/24/1964	Ref:	MD
Edit Status:	F	App:	
Site Type Code:	N	Source Agency:	NV003
Site Type Desc:	New	Owner No:	
Work Type Code:	N	Owner Current:	MITCHELL, LOIS E
Work Type Desc:	New	Driller Lic No:	359
Work Type Rmks:		Contractor Lic No:	359
Prop Use Code:	H	Contractor Drlr No:	
Prop Use Desc:	Domestic	Contractor Name:	R W GIBSON
Drilling Mthd Code:	C	User ID:	SCOX
Drilling Mthd Desc:	Cable tool	Parcel No:	
Test Method Code:		Lot No:	
Test Mthd Desc:		Block No:	
Aquifer Desc:		Subdivision Name:	
Depth Seal:		SC:	32031
Depth Drilled:	110	HA:	086
Depth Bedrock:		Twn:	N20
Depth Cased:	110	Legal Twn:	20N
Qual Const Data:	G	Rng:	E20
Qual Lith Data:	G	Legal Rng:	20E
Gravel Pack Top:		Sec:	30
Gravel Pack Bot:		Sec Quarters:	BB
Gravel Packed:		Legal Quarters:	NW NW
Top Perf:	80	Quarters Seq:	

Wells and Additional Sources Detail Report

Bottom Perf:	110	Latitude:	39.576663970947266
Perf Intervals:	1	Longitude:	119.78555297851562
Casing Diameter:	6.625	Lat Long Src:	NV003
Casing Reductions:	0	Lat Long Acc:	M
Update User ID:	SCOX	Utm X:	260739.861344558
Date Entry:	05/13/2004	Utm Y:	4384270.98336713
Date Update:	05/13/2004	Remarks Add:	
Date Cmpl Acc:	D		
Owner Address:			
Contractor Addr:	465 SIDEHILL SUN VALLEY		
Remarks:			

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
11	ENE	0.44	2,297.57	4,715.96	WATER WELLS

Well Log:	4713	Notice of Intent:	0
Waiver No:		Yield:	7.0
Sequence No:	82194	Drawdown:	
Date Log Rcvd Acc:	D	Hours Pumped:	
Date Log Rcvd:	07/21/1959	Static Wl:	27.0
Well Start Date:	07/08/1959	Temperature:	
Well Finish Date:	07/10/1959	Ref:	MD
Edit Status:	F	App:	
Site Type Code:	N	Source Agency:	NV003
Site Type Desc:	New	Owner No:	
Work Type Code:	N	Owner Current:	FRANCIS, JAMES
Work Type Desc:	New	Driller Lic No:	287
Work Type Rmks:		Contractor Lic No:	287
Prop Use Code:	H	Contractor Drlr No:	
Prop Use Desc:	Domestic	Contractor Name:	A & B CONTRACTORS
Drilling Mthd Code:	C	User ID:	SCOX
Drilling Mthd Desc:	Cable tool	Parcel No:	
Test Method Code:	B	Lot No:	
Test Mthd Desc:	Bucket	Block No:	
Aquifer Desc:		Subdivision Name:	
Depth Seal:		SC:	32031
Depth Drilled:	170	HA:	086
Depth Bedrock:		Twn:	N20
Depth Cased:	165	Legal Twn:	20N
Qual Const Data:	G	Rng:	E20
Qual Lith Data:	G	Legal Rng:	20E
Gravel Pack Top:		Sec:	19
Gravel Pack Bot:		Sec Quarters:	BA
Gravel Packed:		Legal Quarters:	NE NW
Top Perf:	130	Quarters Seq:	
Bottom Perf:	165	Latitude:	39.59111022949219

Wells and Additional Sources Detail Report

Perf Intervals:	1	Longitude:	119.78111267089844
Casing Diameter:	6.0	Lat Long Src:	NV003
Casing Reductions:	0	Lat Long Acc:	M
Update User ID:		Utm X:	261171.297887097
Date Entry:	05/12/2004	Utm Y:	4385862.56281327
Date Update:		Remarks Add:	
Date Cmpl Acc:	D		
Owner Address:	SUN VALLEY		
Contractor Addr:	SUN VALLEY		
Remarks:			

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
12	E	0.44	2,302.14	4,697.68	WATER WELLS

Well Log:	6908	Notice of Intent:	0
Waiver No:		Yield:	10.0
Sequence No:	82180	Drawdown:	30.0
Date Log Rcvd Acc:	D	Hours Pumped:	
Date Log Rcvd:	12/12/1962	Static Wl:	60.0
Well Start Date:	07/23/1962	Temperature:	
Well Finish Date:	07/30/1962	Ref:	MD
Edit Status:	F	App:	
Site Type Code:	N	Source Agency:	NV003
Site Type Desc:	New	Owner No:	
Work Type Code:	N	Owner Current:	NIAMI, SULO
Work Type Desc:	New	Driller Lic No:	287
Work Type Rmks:		Contractor Lic No:	6538
Prop Use Code:	H	Contractor Drlr No:	
Prop Use Desc:	Domestic	Contractor Name:	A & B CONTRACTORS
Drilling Mthd Code:	C	User ID:	SCOX
Drilling Mthd Desc:	Cable tool	Parcel No:	
Test Method Code:	B	Lot No:	
Test Mthd Desc:	Bucket	Block No:	
Aquifer Desc:		Subdivision Name:	
Depth Seal:		SC:	32031
Depth Drilled:	120	HA:	086
Depth Bedrock:		Twn:	N20
Depth Cased:	120	Legal Twn:	20N
Qual Const Data:	G	Rng:	E20
Qual Lith Data:	G	Legal Rng:	20E
Gravel Pack Top:		Sec:	19
Gravel Pack Bot:		Sec Quarters:	BD
Gravel Packed:		Legal Quarters:	SE NW
Top Perf:	80	Quarters Seq:	
Bottom Perf:	120	Latitude:	39.58749771118164
Perf Intervals:	1	Longitude:	119.78111267089844

Wells and Additional Sources Detail Report

Casing Diameter:	6.0	Lat Long Src:	NV003
Casing Reductions:	0	Lat Long Acc:	M
Update User ID:	SCOX	Utm X:	261158.88840803
Date Entry:	05/12/2004	Utm Y:	4385461.71113107
Date Update:	06/02/2004	Remarks Add:	
Date Cmpl Acc:	D		
Owner Address:	76 WEST 2ND SUN VALLEY		
Contractor Addr:	SUN VALLEY		
Remarks:			

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
12	E	0.44	2,302.14	4,697.68	WATER WELLS

Well Log:	6233	Notice of Intent:	0
Waiver No:		Yield:	12.0
Sequence No:	82181	Drawdown:	80.0
Date Log Rcvd Acc:	D	Hours Pumped:	
Date Log Rcvd:	11/03/1961	Static WI:	45.0
Well Start Date:		Temperature:	
Well Finish Date:		Ref:	MD
Edit Status:	F	App:	
Site Type Code:	N	Source Agency:	NV003
Site Type Desc:	New	Owner No:	
Work Type Code:	N	Owner Current:	FRANCIS, JAMES
Work Type Desc:	New	Driller Lic No:	287
Work Type Rmks:		Contractor Lic No:	6538
Prop Use Code:	H	Contractor Drlr No:	
Prop Use Desc:	Domestic	Contractor Name:	A & B CONTRACTORS
Drilling Mthd Code:	C	User ID:	SCOX
Drilling Mthd Desc:	Cable tool	Parcel No:	
Test Method Code:	U	Lot No:	
Test Mthd Desc:	Unknown	Block No:	
Aquifer Desc:		Subdivision Name:	
Depth Seal:		SC:	32031
Depth Drilled:	105	HA:	086
Depth Bedrock:		Twn:	N20
Depth Cased:	105	Legal Twn:	20N
Qual Const Data:	G	Rng:	E20
Qual Lith Data:	G	Legal Rng:	20E
Gravel Pack Top:		Sec:	19
Gravel Pack Bot:		Sec Quarters:	BD
Gravel Packed:		Legal Quarters:	SE NW
Top Perf:	55	Quarters Seq:	
Bottom Perf:	105	Latitude:	39.58749771118164
Perf Intervals:	1	Longitude:	119.78111267089844
Casing Diameter:	6.0	Lat Long Src:	NV003

Wells and Additional Sources Detail Report

Casing Reductions:	0	Lat Long Acc:	M
Update User ID:	MDILLON	Utm X:	261158.88840803
Date Entry:	05/12/2004	Utm Y:	4385461.71113107
Date Update:	06/01/2004	Remarks Add:	
Date Cmpl Acc:			
Owner Address:	338 SUN VALLEY DR SUN VALLEY		
Contractor Addr:	SUN VALLEY		
Remarks:			

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
12	E	0.44	2,302.14	4,697.68	WATER WELLS

Well Log:	4119	Notice of Intent:	0
Waiver No:		Yield:	10.0
Sequence No:	82208	Drawdown:	30.0
Date Log Rcvd Acc:	D	Hours Pumped:	
Date Log Rcvd:	06/26/1958	Static Wl:	25.0
Well Start Date:		Temperature:	
Well Finish Date:	06/08/1958	Ref:	MD
Edit Status:	F	App:	
Site Type Code:	E	Source Agency:	NV003
Site Type Desc:	Existing (Deepen)	Owner No:	
Work Type Code:	D	Owner Current:	NUNN, JOHN
Work Type Desc:	Deepen	Driller Lic No:	287
Work Type Rmks:		Contractor Lic No:	287
Prop Use Code:	H	Contractor Drlr No:	
Prop Use Desc:	Domestic	Contractor Name:	M ARTLIP
Drilling Mthd Code:	C	User ID:	SCOX
Drilling Mthd Desc:	Cable tool	Parcel No:	
Test Method Code:	B	Lot No:	
Test Mthd Desc:	Bucket	Block No:	
Aquifer Desc:		Subdivision Name:	
Depth Seal:		SC:	32031
Depth Drilled:	100	HA:	086
Depth Bedrock:		Twn:	N20
Depth Cased:	100	Legal Twn:	20N
Qual Const Data:	G	Rng:	E20
Qual Lith Data:	G	Legal Rng:	20E
Gravel Pack Top:		Sec:	19
Gravel Pack Bot:		Sec Quarters:	BD
Gravel Packed:		Legal Quarters:	SE NW
Top Perf:	50	Quarters Seq:	
Bottom Perf:	100	Latitude:	39.58749771118164
Perf Intervals:	1	Longitude:	119.78111267089844
Casing Diameter:	6.0	Lat Long Src:	NV003
Casing Reductions:	0	Lat Long Acc:	M

Wells and Additional Sources Detail Report

Update User ID:	SCOX	Utm X:	261158.88840803
Date Entry:	05/12/2004	Utm Y:	4385461.71113107
Date Update:	06/02/2004	Remarks Add:	
Date Cmpl Acc:	D		
Owner Address:	41 WEST THIRD AVE SUN VALLEY		
Contractor Addr:	SUN VALLEY		
Remarks:			

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
12	E	0.44	2,302.14	4,697.68	WATER WELLS

Well Log:	4527	Notice of Intent:	0
Waiver No:		Yield:	3.0
Sequence No:	82196	Drawdown:	
Date Log Rcvd Acc:	D	Hours Pumped:	
Date Log Rcvd:	05/05/1959	Static WI:	22.0
Well Start Date:	03/03/1959	Temperature:	
Well Finish Date:	03/05/1959	Ref:	MD
Edit Status:	F	App:	
Site Type Code:	N	Source Agency:	NV003
Site Type Desc:	New	Owner No:	
Work Type Code:	N	Owner Current:	BASSETT, ROBERT
Work Type Desc:	New	Driller Lic No:	287
Work Type Rmks:		Contractor Lic No:	287
Prop Use Code:	H	Contractor Drlr No:	
Prop Use Desc:	Domestic	Contractor Name:	A & B CONTRACTORS
Drilling Mthd Code:	C	User ID:	SCOX
Drilling Mthd Desc:	Cable tool	Parcel No:	
Test Method Code:	U	Lot No:	6
Test Mthd Desc:	Unknown	Block No:	B
Aquifer Desc:		Subdivision Name:	SUN VALLEY 4
Depth Seal:		SC:	32031
Depth Drilled:	115	HA:	086
Depth Bedrock:		Twn:	N20
Depth Cased:	100	Legal Twn:	20N
Qual Const Data:	G	Rng:	E20
Qual Lith Data:	G	Legal Rng:	20E
Gravel Pack Top:		Sec:	19
Gravel Pack Bot:		Sec Quarters:	BD
Gravel Packed:		Legal Quarters:	SE NW
Top Perf:	60	Quarters Seq:	
Bottom Perf:	100	Latitude:	39.58749771118164
Perf Intervals:	1	Longitude:	119.78111267089844
Casing Diameter:	6.0	Lat Long Src:	NV003
Casing Reductions:	0	Lat Long Acc:	M
Update User ID:		Utm X:	261158.88840803

Wells and Additional Sources Detail Report

Date Entry:	05/12/2004	Utm Y:	4385461.71113107
Date Update:		Remarks Add:	
Date Cmpl Acc:	D		
Owner Address:	236 SIDEHILL DR SUN VALLEY		
Contractor Addr:	SUN VALLEY		
Remarks:			

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
12	E	0.44	2,302.14	4,697.68	WATER WELLS

Well Log:	7819	Notice of Intent:	0
Waiver No:		Yield:	12.0
Sequence No:	82175	Drawdown:	100.0
Date Log Rcvd Acc:	D	Hours Pumped:	
Date Log Rcvd:	05/08/1964	Static Wl:	45.0
Well Start Date:	08/28/1963	Temperature:	
Well Finish Date:	09/03/1963	Ref:	MD
Edit Status:	F	App:	
Site Type Code:	N	Source Agency:	NV003
Site Type Desc:	New	Owner No:	
Work Type Code:	N	Owner Current:	FRANCIS, JAMES
Work Type Desc:	New	Driller Lic No:	287
Work Type Rmks:		Contractor Lic No:	287
Prop Use Code:	H	Contractor Drlr No:	
Prop Use Desc:	Domestic	Contractor Name:	A & B CONTRACTORS
Drilling Mthd Code:	C	User ID:	SCOX
Drilling Mthd Desc:	Cable tool	Parcel No:	
Test Method Code:	B	Lot No:	
Test Mthd Desc:	Bucket	Block No:	
Aquifer Desc:		Subdivision Name:	
Depth Seal:		SC:	32031
Depth Drilled:	210	HA:	086
Depth Bedrock:		Twn:	N20
Depth Cased:	190	Legal Twn:	20N
Qual Const Data:	G	Rng:	E20
Qual Lith Data:	G	Legal Rng:	20E
Gravel Pack Top:		Sec:	19
Gravel Pack Bot:		Sec Quarters:	BD
Gravel Packed:		Legal Quarters:	SE NW
Top Perf:	50	Quarters Seq:	
Bottom Perf:	190	Latitude:	39.58749771118164
Perf Intervals:	2	Longitude:	119.78111267089844
Casing Diameter:	6.625	Lat Long Src:	NV003
Casing Reductions:	0	Lat Long Acc:	M
Update User ID:		Utm X:	261158.88840803
Date Entry:	05/12/2004	Utm Y:	4385461.71113107

Wells and Additional Sources Detail Report

Date Update: Remarks Add:
 Date Cmpl Acc: D
 Owner Address: 380 SLOPE DR SUN VALLEY
 Contractor Addr: SUN VALLEY
 Remarks:

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
12	E	0.44	2,302.14	4,697.68	WATER WELLS

Well Log: 4409	Notice of Intent: 0
Waiver No:	Yield: 1.5
Sequence No: 82198	Drawdown:
Date Log Rcvd Acc: D	Hours Pumped:
Date Log Rcvd: 02/18/1959	Static Wl: 35.0
Well Start Date: 01/11/1959	Temperature:
Well Finish Date: 01/13/1959	Ref: MD
Edit Status: F	App:
Site Type Code: N	Source Agency: NV003
Site Type Desc: New	Owner No:
Work Type Code: N	Owner Current: MC ALLEY, H H
Work Type Desc: New	Driller Lic No: 287
Work Type Rmks:	Contractor Lic No: 287
Prop Use Code: H	Contractor Drlr No:
Prop Use Desc: Domestic	Contractor Name: M ARTLIP
Drilling Mthd Code: C	User ID: SCOX
Drilling Mthd Desc: Cable tool	Parcel No:
Test Method Code: B	Lot No:
Test Mthd Desc: Bucket	Block No:
Aquifer Desc:	Subdivision Name:
Depth Seal:	SC: 32031
Depth Drilled: 160	HA: 086
Depth Bedrock:	Twn: N20
Depth Cased: 160	Legal Twn: 20N
Qual Const Data: G	Rng: E20
Qual Lith Data: G	Legal Rng: 20E
Gravel Pack Top:	Sec: 19
Gravel Pack Bot:	Sec Quarters: BD
Gravel Packed:	Legal Quarters: SE NW
Top Perf: 100	Quarters Seq:
Bottom Perf: 160	Latitude: 39.58749771118164
Perf Intervals: 1	Longitude: 119.78111267089844
Casing Diameter: 6.0	Lat Long Src: NV003
Casing Reductions: 0	Lat Long Acc: M
Update User ID:	Utm X: 261158.88840803
Date Entry: 05/12/2004	Utm Y: 4385461.71113107
Date Update:	Remarks Add:

Wells and Additional Sources Detail Report

Date Cmpl Acc: D
 Owner Address: 332 SUN VALLEY DR SUN VALLEY
 Contractor Addr: SUN VALLEY
 Remarks:

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
13	ESE	0.44	2,304.43	4,679.84	WATER WELLS

Well Log: 5017	Notice of Intent: 0
Waiver No:	Yield: 10.0
Sequence No: 82188	Drawdown:
Date Log Rcvd Acc: D	Hours Pumped:
Date Log Rcvd: 02/01/1960	Static Wl: 6.0
Well Start Date: 11/12/1959	Temperature:
Well Finish Date: 11/17/1959	Ref: MD
Edit Status: F	App:
Site Type Code: N	Source Agency: NV003
Site Type Desc: New	Owner No:
Work Type Code: N	Owner Current: DORF, L A
Work Type Desc: New	Driller Lic No: 287
Work Type Rmks:	Contractor Lic No: 287
Prop Use Code: H	Contractor Drlr No:
Prop Use Desc: Domestic	Contractor Name: A & B CONTRACTORS
Drilling Mthd Code: C	User ID: SCOX
Drilling Mthd Desc: Cable tool	Parcel No:
Test Method Code: B	Lot No:
Test Mthd Desc: Bucket	Block No:
Aquifer Desc:	Subdivision Name:
Depth Seal:	SC: 32031
Depth Drilled: 108	HA: 086
Depth Bedrock:	Twn: N20
Depth Cased: 108	Legal Twn: 20N
Qual Const Data: G	Rng: E20
Qual Lith Data: G	Legal Rng: 20E
Gravel Pack Top:	Sec: 19
Gravel Pack Bot:	Sec Quarters: CA
Gravel Packed:	Legal Quarters: NE SW
Top Perf: 60	Quarters Seq:
Bottom Perf: 108	Latitude: 39.58388900756836
Perf Intervals: 1	Longitude: 119.78111267089844
Casing Diameter: 6.0	Lat Long Src: NV003
Casing Reductions: 0	Lat Long Acc: M
Update User ID:	Utm X: 261146.479880751
Date Entry: 05/12/2004	Utm Y: 4385060.85964277
Date Update:	Remarks Add:
Date Cmpl Acc: D	

Wells and Additional Sources Detail Report

Owner Address: SUN VALLEY
 Contractor Addr: SUN VALLEY
 Remarks:

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
14	NNE	0.44	2,308.74	4,795.23	WATER WELLS

Well Log: 6227	Notice of Intent: 0
Waiver No:	Yield: 20.0
Sequence No: 82116	Drawdown: 14.0
Date Log Rcvd Acc: D	Hours Pumped:
Date Log Rcvd: 11/03/1961	Static Wl: 30.0
Well Start Date: 08/11/1961	Temperature:
Well Finish Date: 08/14/1961	Ref: MD
Edit Status: F	App:
Site Type Code: N	Source Agency: NV003
Site Type Desc: New	Owner No:
Work Type Code: N	Owner Current: KNOX, ALLEN
Work Type Desc: New	Driller Lic No: 343
Work Type Rmks:	Contractor Lic No: 6538
Prop Use Code: H	Contractor Drlr No:
Prop Use Desc: Domestic	Contractor Name: A & B CONTRACTORS
Drilling Mthd Code: C	User ID: SCOX
Drilling Mthd Desc: Cable tool	Parcel No:
Test Method Code: B	Lot No:
Test Mthd Desc: Bucket	Block No:
Aquifer Desc:	Subdivision Name:
Depth Seal:	SC: 32031
Depth Drilled: 162	HA: 086
Depth Bedrock:	Twn: N20
Depth Cased: 155	Legal Twn: 20N
Qual Const Data: G	Rng: E20
Qual Lith Data: G	Legal Rng: 20E
Gravel Pack Top:	Sec: 18
Gravel Pack Bot:	Sec Quarters: CB
Gravel Packed:	Legal Quarters: NW SW
Top Perf: 95	Quarters Seq:
Bottom Perf: 155	Latitude: 39.598331451416016
Perf Intervals: 1	Longitude: 119.78555297851562
Casing Diameter: 6.0	Lat Long Src: NV003
Casing Reductions: 0	Lat Long Acc: M
Update User ID: MDILLON	Utm X: 260814.434588931
Date Entry: 05/11/2004	Utm Y: 4386676.09459346
Date Update: 06/01/2004	Remarks Add:
Date Cmpl Acc: D	
Owner Address: SUN VALLEY	

Wells and Additional Sources Detail Report

Contractor Addr: SUN VALLEY
 Remarks:

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
14	NNE	0.44	2,308.74	4,795.23	WATER WELLS

Well Log: 5531	Notice of Intent: 0
Waiver No:	Yield: 15.0
Sequence No: 82121	Drawdown: 25.0
Date Log Rcvd Acc: D	Hours Pumped:
Date Log Rcvd: 11/01/1960	Static Wl: 50.0
Well Start Date: 08/25/1960	Temperature:
Well Finish Date: 09/02/1960	Ref: MD
Edit Status: F	App:
Site Type Code: N	Source Agency: NV003
Site Type Desc: New	Owner No:
Work Type Code: N	Owner Current: GOWINS, DONALD
Work Type Desc: New	Driller Lic No: 287
Work Type Rmks:	Contractor Lic No:
Prop Use Code: H	Contractor Drlr No:
Prop Use Desc: Domestic	Contractor Name: A & B CONTRACTORS
Drilling Mthd Code: C	User ID: SCOX
Drilling Mthd Desc: Cable tool	Parcel No:
Test Method Code: B	Lot No:
Test Mthd Desc: Bucket	Block No:
Aquifer Desc:	Subdivision Name:
Depth Seal:	SC: 32031
Depth Drilled: 100	HA: 086
Depth Bedrock:	Twn: N20
Depth Cased: 100	Legal Twn: 20N
Qual Const Data: G	Rng: E20
Qual Lith Data: G	Legal Rng: 20E
Gravel Pack Top:	Sec: 18
Gravel Pack Bot:	Sec Quarters: CB
Gravel Packed:	Legal Quarters: NW SW
Top Perf: 60	Quarters Seq:
Bottom Perf: 100	Latitude: 39.598331451416016
Perf Intervals: 1	Longitude: 119.78555297851562
Casing Diameter: 6.0	Lat Long Src: NV003
Casing Reductions: 0	Lat Long Acc: M
Update User ID: MDILLON	Utm X: 260814.434588931
Date Entry: 05/11/2004	Utm Y: 4386676.09459346
Date Update: 06/01/2004	Remarks Add:
Date Cmpl Acc: D	
Owner Address: 348 SIDEHILL DR SUN VALLEY	
Contractor Addr: SUN VALLEY	

Wells and Additional Sources Detail Report

Remarks:

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
15	SE	0.45	2,360.32	4,670.62	WATER WELLS

Well Log:	4840	Notice of Intent:	0
Waiver No:		Yield:	30.0
Sequence No:	82192	Drawdown:	
Date Log Rcvd Acc:	D	Hours Pumped:	
Date Log Rcvd:	09/28/1959	Static Wl:	12.0
Well Start Date:	08/22/1959	Temperature:	
Well Finish Date:	08/25/1959	Ref:	MD
Edit Status:	F	App:	
Site Type Code:	N	Source Agency:	NV003
Site Type Desc:	New	Owner No:	
Work Type Code:	N	Owner Current:	BRUNETTE, DANIEL
Work Type Desc:	New	Driller Lic No:	208
Work Type Rmks:		Contractor Lic No:	208
Prop Use Code:	H	Contractor Drlr No:	
Prop Use Desc:	Domestic	Contractor Name:	A & B CONTRACTORS
Drilling Mthd Code:	C	User ID:	SCOX
Drilling Mthd Desc:	Cable tool	Parcel No:	
Test Method Code:	B	Lot No:	
Test Mthd Desc:	Bucket	Block No:	D
Aquifer Desc:		Subdivision Name:	SUN VALLEY 1
Depth Seal:		SC:	32031
Depth Drilled:	100	HA:	086
Depth Bedrock:		Twn:	N20
Depth Cased:	100	Legal Twn:	20N
Qual Const Data:	G	Rng:	E20
Qual Lith Data:	G	Legal Rng:	20E
Gravel Pack Top:		Sec:	19
Gravel Pack Bot:		Sec Quarters:	CD
Gravel Packed:		Legal Quarters:	SE SW
Top Perf:	60	Quarters Seq:	
Bottom Perf:	100	Latitude:	39.58027648925781
Perf Intervals:	1	Longitude:	119.78111267089844
Casing Diameter:	6.0	Lat Long Src:	NV003
Casing Reductions:	0	Lat Long Acc:	M
Update User ID:		Utm X:	261134.072305309
Date Entry:	05/12/2004	Utm Y:	4384660.00834836
Date Update:		Remarks Add:	
Date Cmpl Acc:	D		
Owner Address:	135 LEON DR		
Contractor Addr:	SUN VALLEY		
Remarks:			

Wells and Additional Sources Detail Report

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
15	SE	0.45	2,360.32	4,670.62	WATER WELLS

Well Log:	1497	Notice of Intent:	0
Waiver No:		Yield:	10.0
Sequence No:	82236	Drawdown:	
Date Log Rcvd Acc:	D	Hours Pumped:	12.0
Date Log Rcvd:	12/26/1950	Static Wl:	45.0
Well Start Date:	12/11/1950	Temperature:	
Well Finish Date:	12/19/1950	Ref:	MD
Edit Status:	F	App:	
Site Type Code:	N	Source Agency:	NV003
Site Type Desc:	New	Owner No:	
Work Type Code:	N	Owner Current:	MOORE, JOHN
Work Type Desc:	New	Driller Lic No:	3
Work Type Rmks:		Contractor Lic No:	3
Prop Use Code:	H	Contractor Drlr No:	
Prop Use Desc:	Domestic	Contractor Name:	MEL MEYER
Drilling Mthd Code:	C	User ID:	SCOX
Drilling Mthd Desc:	Cable tool	Parcel No:	
Test Method Code:	J	Lot No:	
Test Mthd Desc:	Jet Pump	Block No:	
Aquifer Desc:		Subdivision Name:	
Depth Seal:		SC:	32031
Depth Drilled:	130	HA:	086
Depth Bedrock:		Twn:	N20
Depth Cased:	104	Legal Twn:	20N
Qual Const Data:	G	Rng:	E20
Qual Lith Data:	G	Legal Rng:	20E
Gravel Pack Top:		Sec:	19
Gravel Pack Bot:		Sec Quarters:	
Gravel Packed:		Legal Quarters:	
Top Perf:	64	Quarters Seq:	
Bottom Perf:	102	Latitude:	39.58027648925781
Perf Intervals:	1	Longitude:	119.78111267089844
Casing Diameter:	6.0	Lat Long Src:	NV003
Casing Reductions:	0	Lat Long Acc:	M
Update User ID:	SCOX	Utm X:	261134.072305309
Date Entry:	05/12/2004	Utm Y:	4384660.00834836
Date Update:	06/02/2004	Remarks Add:	
Date Cmpl Acc:	D		
Owner Address:	SUN VALLEY		
Contractor Addr:	120 MOANA LANE RENO		
Remarks:			

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
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Wells and Additional Sources Detail Report

15	SE	0.45	2,360.32	4,670.62	WATER WELLS
Well Log: 4841 Notice of Intent: 0					
Waiver No: Yield: 7.0					
Sequence No: 82191 Drawdown:					
Date Log Rcvd Acc: D Hours Pumped:					
Date Log Rcvd: 09/28/1959 Static Wl: 23.0					
Well Start Date: 08/15/1959 Temperature:					
Well Finish Date: 08/17/1959 Ref: MD					
Edit Status: F App:					
Site Type Code: N Source Agency: NV003					
Site Type Desc: New Owner No:					
Work Type Code: N Owner Current: SCHUTZ, J F					
Work Type Desc: New Driller Lic No: 208					
Work Type Rmks: Contractor Lic No: 208					
Prop Use Code: H Contractor Drlr No:					
Prop Use Desc: Domestic Contractor Name: A & B CONTRACTORS					
Drilling Mthd Code: C User ID: SCOX					
Drilling Mthd Desc: Cable tool Parcel No:					
Test Method Code: B Lot No:					
Test Mthd Desc: Bucket Block No:					
Aquifer Desc: Subdivision Name:					
Depth Seal: SC: 32031					
Depth Drilled: 75 HA: 086					
Depth Bedrock: Twn: N20					
Depth Cased: 75 Legal Twn: 20N					
Qual Const Data: G Rng: E20					
Qual Lith Data: G Legal Rng: 20E					
Gravel Pack Top: Sec: 19					
Gravel Pack Bot: Sec Quarters: CD					
Gravel Packed: Legal Quarters: SE SW					
Top Perf: 53 Quarters Seq:					
Bottom Perf: 73 Latitude: 39.58027648925781					
Perf Intervals: 1 Longitude: 119.78111267089844					
Casing Diameter: 6.0 Lat Long Src: NV003					
Casing Reductions: 0 Lat Long Acc: M					
Update User ID: Utm X: 261134.072305309					
Date Entry: 05/12/2004 Utm Y: 4384660.00834836					
Date Update: Remarks Add:					
Date Cmpl Acc: D					
Owner Address: 21 E 1ST AVE SUN VALLEY					
Contractor Addr: SUN VALLEY					
Remarks:					

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
15	SE	0.45	2,360.32	4,670.62	WATER WELLS

Wells and Additional Sources Detail Report

Well Log:	5009	Notice of Intent:	0
Waiver No:		Yield:	7.0
Sequence No:	82189	Drawdown:	
Date Log Rcvd Acc:	D	Hours Pumped:	
Date Log Rcvd:	01/26/1960	Static Wl:	76.0
Well Start Date:	10/10/1959	Temperature:	
Well Finish Date:	10/19/1959	Ref:	MD
Edit Status:	F	App:	
Site Type Code:	N	Source Agency:	NV003
Site Type Desc:	New	Owner No:	
Work Type Code:	N	Owner Current:	THOMAS, ROBERT L
Work Type Desc:	New	Driller Lic No:	208
Work Type Rmks:		Contractor Lic No:	208
Prop Use Code:	H	Contractor Drlr No:	
Prop Use Desc:	Domestic	Contractor Name:	A & B CONTRACTORS
Drilling Mthd Code:	C	User ID:	SCOX
Drilling Mthd Desc:	Cable tool	Parcel No:	
Test Method Code:	B	Lot No:	
Test Mthd Desc:	Bucket	Block No:	
Aquifer Desc:		Subdivision Name:	
Depth Seal:		SC:	32031
Depth Drilled:	156	HA:	086
Depth Bedrock:		Twn:	N20
Depth Cased:	156	Legal Twn:	20N
Qual Const Data:	G	Rng:	E20
Qual Lith Data:	G	Legal Rng:	20E
Gravel Pack Top:		Sec:	19
Gravel Pack Bot:		Sec Quarters:	CD
Gravel Packed:		Legal Quarters:	SE SW
Top Perf:	136	Quarters Seq:	
Bottom Perf:	156	Latitude:	39.58027648925781
Perf Intervals:	1	Longitude:	119.78111267089844
Casing Diameter:	6.0	Lat Long Src:	NV003
Casing Reductions:	0	Lat Long Acc:	M
Update User ID:		Utm X:	261134.072305309
Date Entry:	05/12/2004	Utm Y:	4384660.00834836
Date Update:		Remarks Add:	
Date Cmpl Acc:	D		
Owner Address:	1ST & SUN VALLEY DR SUN VALLEY		
Contractor Addr:	SUN VALLEY		
Remarks:			

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
16	NE	0.46	2,413.25	4,733.49	WATER WELLS

Wells and Additional Sources Detail Report

Well Log:	4915	Notice of Intent:	0
Waiver No:		Yield:	15.0
Sequence No:	82133	Drawdown:	
Date Log Rcvd Acc:	D	Hours Pumped:	
Date Log Rcvd:	11/10/1959	Static Wl:	39.0
Well Start Date:	03/17/1959	Temperature:	
Well Finish Date:	03/18/1959	Ref:	MD
Edit Status:	F	App:	
Site Type Code:	N	Source Agency:	NV003
Site Type Desc:	New	Owner No:	
Work Type Code:	N	Owner Current:	GAULE, MR
Work Type Desc:	New	Driller Lic No:	3692
Work Type Rmks:		Contractor Lic No:	3692
Prop Use Code:	H	Contractor Drlr No:	
Prop Use Desc:	Domestic	Contractor Name:	J N PITCHER COMPANY
Drilling Mthd Code:	C	User ID:	SCOX
Drilling Mthd Desc:	Cable tool	Parcel No:	
Test Method Code:	B	Lot No:	
Test Mthd Desc:	Bucket	Block No:	
Aquifer Desc:		Subdivision Name:	
Depth Seal:		SC:	32031
Depth Drilled:	82	HA:	086
Depth Bedrock:		Twn:	N20
Depth Cased:	82	Legal Twn:	20N
Qual Const Data:	G	Rng:	E20
Qual Lith Data:	G	Legal Rng:	20E
Gravel Pack Top:		Sec:	18
Gravel Pack Bot:		Sec Quarters:	CD
Gravel Packed:		Legal Quarters:	SE SW
Top Perf:	43	Quarters Seq:	
Bottom Perf:	82	Latitude:	39.594722747802734
Perf Intervals:	1	Longitude:	119.78111267089844
Casing Diameter:	6.0	Lat Long Src:	NV003
Casing Reductions:	0	Lat Long Acc:	M
Update User ID:	SCOX	Utm X:	261183.708317905
Date Entry:	05/12/2004	Utm Y:	4386263.41468937
Date Update:	05/12/2004	Remarks Add:	
Date Cmpl Acc:	D		
Owner Address:	SUN VALLEY		
Contractor Addr:	190 MOANA LANE RENO		
Remarks:			

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
16	NE	0.46	2,413.25	4,733.49	WATER WELLS

Well Log:	5188	Notice of Intent:	0
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Wells and Additional Sources Detail Report

Waiver No:		Yield:	4.0
Sequence No:	82129	Drawdown:	45.0
Date Log Rcvd Acc:	D	Hours Pumped:	
Date Log Rcvd:	05/23/1960	Static Wl:	40.0
Well Start Date:	03/25/1960	Temperature:	
Well Finish Date:	03/28/1960	Ref:	MD
Edit Status:	F	App:	
Site Type Code:	N	Source Agency:	NV003
Site Type Desc:	New	Owner No:	
Work Type Code:	N	Owner Current:	BRAAE, H M
Work Type Desc:	New	Driller Lic No:	287
Work Type Rmks:		Contractor Lic No:	
Prop Use Code:	H	Contractor Drlr No:	
Prop Use Desc:	Domestic	Contractor Name:	A & B CONTRACTORS
Drilling Mthd Code:	C	User ID:	SCOX
Drilling Mthd Desc:	Cable tool	Parcel No:	
Test Method Code:	B	Lot No:	
Test Mthd Desc:	Bucket	Block No:	
Aquifer Desc:		Subdivision Name:	
Depth Seal:		SC:	32031
Depth Drilled:	94	HA:	086
Depth Bedrock:		Twn:	N20
Depth Cased:	94	Legal Twn:	20N
Qual Const Data:	G	Rng:	E20
Qual Lith Data:	G	Legal Rng:	20E
Gravel Pack Top:		Sec:	18
Gravel Pack Bot:		Sec Quarters:	CD
Gravel Packed:		Legal Quarters:	SE SW
Top Perf:	74	Quarters Seq:	
Bottom Perf:	93	Latitude:	39.594722747802734
Perf Intervals:	1	Longitude:	119.78111267089844
Casing Diameter:	6.625	Lat Long Src:	NV003
Casing Reductions:	0	Lat Long Acc:	M
Update User ID:	SCOX	Utm X:	261183.708317905
Date Entry:	05/11/2004	Utm Y:	4386263.41468937
Date Update:	05/12/2004	Remarks Add:	
Date Cmpl Acc:	D		
Owner Address:	SUN VALLEY		
Contractor Addr:	SUN VALLEY		
Remarks:			

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
16	NE	0.46	2,413.25	4,733.49	WATER WELLS

Well Log:	4716	Notice of Intent:	0
Waiver No:		Yield:	15.0

Wells and Additional Sources Detail Report

Sequence No:	82139	Drawdown:	215.0
Date Log Rcvd Acc:	D	Hours Pumped:	
Date Log Rcvd:	07/21/1959	Static Wl:	50.0
Well Start Date:	06/20/1959	Temperature:	
Well Finish Date:	06/24/1959	Ref:	MD
Edit Status:	F	App:	
Site Type Code:	E	Source Agency:	NV003
Site Type Desc:	Existing (Deepen)	Owner No:	
Work Type Code:	D	Owner Current:	LANDON, W L
Work Type Desc:	Deepen	Driller Lic No:	287
Work Type Rmks:		Contractor Lic No:	287
Prop Use Code:	H	Contractor Drlr No:	
Prop Use Desc:	Domestic	Contractor Name:	A & B CONTRACTORS
Drilling Mthd Code:	C	User ID:	SCOX
Drilling Mthd Desc:	Cable tool	Parcel No:	
Test Method Code:	U	Lot No:	
Test Mthd Desc:	Unknown	Block No:	
Aquifer Desc:		Subdivision Name:	
Depth Seal:		SC:	32031
Depth Drilled:	305	HA:	086
Depth Bedrock:		Twn:	N20
Depth Cased:	305	Legal Twn:	20N
Qual Const Data:	G	Rng:	E20
Qual Lith Data:	G	Legal Rng:	20E
Gravel Pack Top:		Sec:	18
Gravel Pack Bot:		Sec Quarters:	CD
Gravel Packed:		Legal Quarters:	SE SW
Top Perf:	205	Quarters Seq:	
Bottom Perf:	305	Latitude:	39.594722747802734
Perf Intervals:	1	Longitude:	119.78111267089844
Casing Diameter:	5.0	Lat Long Src:	NV003
Casing Reductions:	0	Lat Long Acc:	M
Update User ID:	SCOX	Utm X:	261183.708317905
Date Entry:	05/12/2004	Utm Y:	4386263.41468937
Date Update:	06/02/2004	Remarks Add:	
Date Cmpl Acc:	D		
Owner Address:	555 SLOPE DR SUN VALLEY		
Contractor Addr:	SUN VALLEY		
Remarks:			

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
16	NE	0.46	2,413.25	4,733.49	WATER WELLS

Well Log:	3770	Notice of Intent:	0
Waiver No:		Yield:	15.0
Sequence No:	82145	Drawdown:	

Wells and Additional Sources Detail Report

Date Log Rcvd Acc:	D	Hours Pumped:	
Date Log Rcvd:	05/10/1957	Static Wl:	45.0
Well Start Date:	04/05/1957	Temperature:	60.0
Well Finish Date:	04/08/1957	Ref:	MD
Edit Status:	F	App:	
Site Type Code:	N	Source Agency:	NV003
Site Type Desc:	New	Owner No:	
Work Type Code:	N	Owner Current:	GEPFORD, H L
Work Type Desc:	New	Driller Lic No:	265
Work Type Rmks:		Contractor Lic No:	265
Prop Use Code:	H	Contractor Drlr No:	
Prop Use Desc:	Domestic	Contractor Name:	J N PITCHER CO
Drilling Mthd Code:	C	User ID:	SCOX
Drilling Mthd Desc:	Cable tool	Parcel No:	
Test Method Code:	B	Lot No:	
Test Mthd Desc:	Bucket	Block No:	
Aquifer Desc:		Subdivision Name:	
Depth Seal:		SC:	32031
Depth Drilled:	95	HA:	086
Depth Bedrock:		Twn:	N20
Depth Cased:	94	Legal Twn:	20N
Qual Const Data:	G	Rng:	E20
Qual Lith Data:	G	Legal Rng:	20E
Gravel Pack Top:		Sec:	18
Gravel Pack Bot:		Sec Quarters:	CD
Gravel Packed:		Legal Quarters:	SE SW
Top Perf:	64	Quarters Seq:	
Bottom Perf:	94	Latitude:	39.594722747802734
Perf Intervals:	1	Longitude:	119.78111267089844
Casing Diameter:	6.125	Lat Long Src:	NV003
Casing Reductions:	0	Lat Long Acc:	M
Update User ID:	SCOX	Utm X:	261183.708317905
Date Entry:	05/12/2004	Utm Y:	4386263.41468937
Date Update:	06/02/2004	Remarks Add:	
Date Cmpl Acc:	D		
Owner Address:	NE COR 6 & SUN VALLEY DR		
Contractor Addr:	190 MOANA LANE		
Remarks:			

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
16	NE	0.46	2,413.25	4,733.49	WATER WELLS

Well Log:	6234	Notice of Intent:	0
Waiver No:		Yield:	30.0
Sequence No:	82114	Drawdown:	75.0
Date Log Rcvd Acc:	D	Hours Pumped:	

Wells and Additional Sources Detail Report

Date Log Rcvd:	11/03/1961	Static Wl:	39.0
Well Start Date:	05/01/1961	Temperature:	
Well Finish Date:	05/01/1961	Ref:	MD
Edit Status:	F	App:	
Site Type Code:	N	Source Agency:	NV003
Site Type Desc:	New	Owner No:	
Work Type Code:	N	Owner Current:	MCKEEL, ALBERT
Work Type Desc:	New	Driller Lic No:	343
Work Type Rmks:		Contractor Lic No:	6538
Prop Use Code:	H	Contractor Drlr No:	
Prop Use Desc:	Domestic	Contractor Name:	A & B CONTRACTORS
Drilling Mthd Code:	C	User ID:	SCOX
Drilling Mthd Desc:	Cable tool	Parcel No:	
Test Method Code:	U	Lot No:	
Test Mthd Desc:	Unknown	Block No:	
Aquifer Desc:		Subdivision Name:	
Depth Seal:		SC:	32031
Depth Drilled:	184	HA:	086
Depth Bedrock:		Twn:	N20
Depth Cased:	130	Legal Twn:	20N
Qual Const Data:	G	Rng:	E20
Qual Lith Data:	G	Legal Rng:	20E
Gravel Pack Top:		Sec:	18
Gravel Pack Bot:		Sec Quarters:	CD
Gravel Packed:		Legal Quarters:	SE SW
Top Perf:	68	Quarters Seq:	
Bottom Perf:	130	Latitude:	39.594722747802734
Perf Intervals:	1	Longitude:	119.78111267089844
Casing Diameter:	6.0	Lat Long Src:	NV003
Casing Reductions:	0	Lat Long Acc:	M
Update User ID:	SCOX	Utm X:	261183.708317905
Date Entry:	05/11/2004	Utm Y:	4386263.41468937
Date Update:	06/01/2004	Remarks Add:	
Date Cmpl Acc:	D		
Owner Address:	467 SUN VALLEY DR SUN VALLEY		
Contractor Addr:	SUN VALLEY		
Remarks:			

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
16	NE	0.46	2,413.25	4,733.49	WATER WELLS

Well Log:	7816	Notice of Intent:	0
Waiver No:		Yield:	10.0
Sequence No:	82108	Drawdown:	30.0
Date Log Rcvd Acc:	D	Hours Pumped:	
Date Log Rcvd:	05/08/1964	Static Wl:	42.0

Wells and Additional Sources Detail Report

Well Start Date: 06/04/1963	Temperature:
Well Finish Date: 06/10/1963	Ref: MD
Edit Status: F	App:
Site Type Code: N	Source Agency: NV003
Site Type Desc: New	Owner No:
Work Type Code: N	Owner Current: SMITH, GEORGE
Work Type Desc: New	Driller Lic No: 287
Work Type Rmks:	Contractor Lic No: 287
Prop Use Code: H	Contractor Drlr No:
Prop Use Desc: Domestic	Contractor Name: A & B CONTRACTORS
Drilling Mthd Code: C	User ID: SCOX
Drilling Mthd Desc: Cable tool	Parcel No:
Test Method Code: B	Lot No:
Test Mthd Desc: Bucket	Block No:
Aquifer Desc:	Subdivision Name:
Depth Seal:	SC: 32031
Depth Drilled: 110	HA: 086
Depth Bedrock:	Twn: N20
Depth Cased: 110	Legal Twn: 20N
Qual Const Data: G	Rng: E20
Qual Lith Data: G	Legal Rng: 20E
Gravel Pack Top:	Sec: 18
Gravel Pack Bot:	Sec Quarters: CD
Gravel Packed:	Legal Quarters: SE SW
Top Perf: 70	Quarters Seq:
Bottom Perf: 110	Latitude: 39.594722747802734
Perf Intervals: 1	Longitude: 119.78111267089844
Casing Diameter: 6.625	Lat Long Src: NV003
Casing Reductions: 0	Lat Long Acc: M
Update User ID: SCOX	Utm X: 261183.708317905
Date Entry: 05/11/2004	Utm Y: 4386263.41468937
Date Update: 05/12/2004	Remarks Add:
Date Cmpl Acc: D	
Owner Address: W 4TH AVE SUN VALLEY	
Contractor Addr: SUN VALLEY	
Remarks:	

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
16	NE	0.46	2,413.25	4,733.49	WATER WELLS

Well Log: 5466	Notice of Intent: 0
Waiver No:	Yield:
Sequence No: 82127	Drawdown:
Date Log Rcvd Acc: D	Hours Pumped:
Date Log Rcvd: 10/17/1960	Static Wl: 62.0
Well Start Date: 08/31/1960	Temperature:

Wells and Additional Sources Detail Report

Well Finish Date:	09/15/1960	Ref:	MD
Edit Status:	F	App:	
Site Type Code:	E	Source Agency:	NV003
Site Type Desc:	Existing (Deepen)	Owner No:	
Work Type Code:	D	Owner Current:	LANE, ROBERT W AND DARLENE LANE
Work Type Desc:	Deepen	Driller Lic No:	
Work Type Rmks:		Contractor Lic No:	174
Prop Use Code:	H	Contractor Drlr No:	
Prop Use Desc:	Domestic	Contractor Name:	T L SHERMAN
Drilling Mthd Code:	C	User ID:	SCOX
Drilling Mthd Desc:	Cable tool	Parcel No:	
Test Method Code:		Lot No:	
Test Mthd Desc:		Block No:	
Aquifer Desc:		Subdivision Name:	
Depth Seal:		SC:	32031
Depth Drilled:	106	HA:	086
Depth Bedrock:		Twn:	N20
Depth Cased:	100	Legal Twn:	20N
Qual Const Data:	G	Rng:	E20
Qual Lith Data:	G	Legal Rng:	20E
Gravel Pack Top:		Sec:	18
Gravel Pack Bot:		Sec Quarters:	CD
Gravel Packed:		Legal Quarters:	SE SW
Top Perf:	60	Quarters Seq:	
Bottom Perf:	100	Latitude:	39.594722747802734
Perf Intervals:	1	Longitude:	119.78111267089844
Casing Diameter:		Lat Long Src:	NV003
Casing Reductions:	0	Lat Long Acc:	M
Update User ID:	MDILLON	Utm X:	261183.708317905
Date Entry:	05/11/2004	Utm Y:	4386263.41468937
Date Update:	06/01/2004	Remarks Add:	
Date Cmpl Acc:	D		
Owner Address:	67 E 7TH SUN VALLEY		
Contractor Addr:	2500 BELFORD RD		
Remarks:			

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
16	NE	0.46	2,413.25	4,733.49	WATER WELLS

Well Log:	4410	Notice of Intent:	0
Waiver No:		Yield:	15.0
Sequence No:	82140	Drawdown:	
Date Log Rcvd Acc:	D	Hours Pumped:	
Date Log Rcvd:	02/18/1959	Static Wl:	90.0
Well Start Date:	01/15/1959	Temperature:	
Well Finish Date:	01/20/1959	Ref:	MD

Wells and Additional Sources Detail Report

Edit Status:	F	App:	
Site Type Code:	N	Source Agency:	NV003
Site Type Desc:	New	Owner No:	
Work Type Code:	N	Owner Current:	LANDON, W L
Work Type Desc:	New	Driller Lic No:	287
Work Type Rmks:		Contractor Lic No:	287
Prop Use Code:	H	Contractor Drlr No:	
Prop Use Desc:	Domestic	Contractor Name:	M ARTLIP
Drilling Mthd Code:	C	User ID:	SCOX
Drilling Mthd Desc:	Cable tool	Parcel No:	
Test Method Code:	U	Lot No:	
Test Mthd Desc:	Unknown	Block No:	
Aquifer Desc:		Subdivision Name:	
Depth Seal:		SC:	32031
Depth Drilled:	235	HA:	086
Depth Bedrock:		Twn:	N20
Depth Cased:	215	Legal Twn:	20N
Qual Const Data:	G	Rng:	E20
Qual Lith Data:	G	Legal Rng:	20E
Gravel Pack Top:		Sec:	18
Gravel Pack Bot:		Sec Quarters:	CD
Gravel Packed:		Legal Quarters:	SE SW
Top Perf:	185	Quarters Seq:	
Bottom Perf:	215	Latitude:	39.594722747802734
Perf Intervals:	1	Longitude:	119.78111267089844
Casing Diameter:	6.0	Lat Long Src:	NV003
Casing Reductions:	0	Lat Long Acc:	M
Update User ID:	SCOX	Utm X:	261183.708317905
Date Entry:	05/12/2004	Utm Y:	4386263.41468937
Date Update:	06/02/2004	Remarks Add:	
Date Cmpl Acc:	D		
Owner Address:	BETWEEN 5TH & 6TH AVE ON SLOPE DR SUN VALLEY		
Contractor Addr:	SUN VALLEY		
Remarks:			

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
16	NE	0.46	2,413.25	4,733.49	WATER WELLS

Well Log:	5183	Notice of Intent:	0
Waiver No:		Yield:	8.0
Sequence No:	82421	Drawdown:	84.0
Date Log Rcvd Acc:	D	Hours Pumped:	
Date Log Rcvd:	05/23/1960	Static WI:	26.0
Well Start Date:	04/22/1960	Temperature:	
Well Finish Date:	04/24/1960	Ref:	MD
Edit Status:	F	App:	

Wells and Additional Sources Detail Report

Site Type Code: N	Source Agency: NV003
Site Type Desc: New	Owner No:
Work Type Code: N	Owner Current: SNOWDON, T E
Work Type Desc: New	Driller Lic No: 287
Work Type Rmks:	Contractor Lic No: 207
Prop Use Code: H	Contractor Drlr No:
Prop Use Desc: Domestic	Contractor Name: A & B CONTRACTORS
Drilling Mthd Code: C	User ID: SCOX
Drilling Mthd Desc: Cable tool	Parcel No:
Test Method Code: B	Lot No:
Test Mthd Desc: Bucket	Block No:
Aquifer Desc:	Subdivision Name:
Depth Seal:	SC: 32031
Depth Drilled: 92	HA: 086
Depth Bedrock:	Twn: N20
Depth Cased: 92	Legal Twn: 20N
Qual Const Data: G	Rng: E20
Qual Lith Data: G	Legal Rng: 20E
Gravel Pack Top:	Sec: 18
Gravel Pack Bot:	Sec Quarters: CD
Gravel Packed:	Legal Quarters: SE SW
Top Perf: 50	Quarters Seq:
Bottom Perf: 90	Latitude: 39.594722747802734
Perf Intervals: 1	Longitude: 119.78111267089844
Casing Diameter: 6.0	Lat Long Src: NV003
Casing Reductions: 0	Lat Long Acc: M
Update User ID: MDILLON	Utm X: 261183.708317905
Date Entry: 05/14/2004	Utm Y: 4386263.41468937
Date Update: 05/28/2004	Remarks Add:
Date Cmpl Acc: D	
Owner Address: 335 SLOPE DR SUN VALLEY	
Contractor Addr: SUN VALLEY	
Remarks:	

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
18	NNW	0.55	2,883.18	5,009.69	WATER WELLS

Well Log: 92186	Notice of Intent: 0
Waiver No:	Yield:
Sequence No: 78955	Drawdown:
Date Log Rcvd Acc: D	Hours Pumped:
Date Log Rcvd: 12/08/1978	Static Wl: 50.0
Well Start Date: 12/04/1978	Temperature:
Well Finish Date: 12/05/1978	Ref: MD
Edit Status: F	App:
Site Type Code: N	Source Agency: NV003

Wells and Additional Sources Detail Report

Site Type Desc:	New	Owner No:	
Work Type Code:	N	Owner Current:	PFENNING, KAREN
Work Type Desc:	New	Driller Lic No:	923
Work Type Rmks:		Contractor Lic No:	14043
Prop Use Code:	H	Contractor Drlr No:	
Prop Use Desc:	Domestic	Contractor Name:	WAYNE DRILLING INC
Drilling Mthd Code:	A	User ID:	DBRANTLEY
Drilling Mthd Desc:	Air Rotary	Parcel No:	88-210-22
Test Method Code:		Lot No:	
Test Mthd Desc:		Block No:	
Aquifer Desc:		Subdivision Name:	
Depth Seal:	50	SC:	32031
Depth Drilled:	225	HA:	086
Depth Bedrock:		Twn:	N20
Depth Cased:	225	Legal Twn:	20N
Qual Const Data:	G	Rng:	E19
Qual Lith Data:	G	Legal Rng:	19E
Gravel Pack Top:	50	Sec:	13
Gravel Pack Bot:	225	Sec Quarters:	
Gravel Packed:	Y	Legal Quarters:	
Top Perf:	161	Quarters Seq:	
Bottom Perf:	225	Latitude:	39.600276947021484
Perf Intervals:	1	Longitude:	119.7972183227539
Casing Diameter:	6.625	Lat Long Src:	NV003
Casing Reductions:	0	Lat Long Acc:	M
Update User ID:	SCOX	Utm X:	259819.232120201
Date Entry:	02/25/2004	Utm Y:	4386923.07676152
Date Update:	03/25/2004	Remarks Add:	
Date Cmpl Acc:	D		
Owner Address:	5745 FLYNN DR		
Contractor Addr:	P O BOX 12370 RENO NV 89510		
Remarks:			

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
18	NNW	0.55	2,883.18	5,009.69	WATER WELLS

Well Log:	29485	Notice of Intent:	9536
Waiver No:		Yield:	
Sequence No:	4933	Drawdown:	
Date Log Rcvd Acc:	D	Hours Pumped:	
Date Log Rcvd:	01/19/1988	Static WI:	50.0
Well Start Date:		Temperature:	
Well Finish Date:	01/13/1988	Ref:	MD
Edit Status:	F	App:	
Site Type Code:	E	Source Agency:	NV003
Site Type Desc:	Existing (Deepen)	Owner No:	

Wells and Additional Sources Detail Report

Work Type Code:	D	Owner Current:	WADE, DEAN
Work Type Desc:	Deepen	Driller Lic No:	1511
Work Type Rmks:		Contractor Lic No:	15291
Prop Use Code:	H	Contractor Drlr No:	1132
Prop Use Desc:	Domestic	Contractor Name:	AQUA DRILLING & WELL SERVICE
Drilling Mthd Code:	A	User ID:	NAFLECKS
Drilling Mthd Desc:	Air Rotary	Parcel No:	88-220-36
Test Method Code:	C	Lot No:	
Test Mthd Desc:	Centrifugal Pump	Block No:	
Aquifer Desc:		Subdivision Name:	
Depth Seal:		SC:	32031
Depth Drilled:	207	HA:	086
Depth Bedrock:		Twn:	N20
Depth Cased:	207	Legal Twn:	20N
Qual Const Data:	G	Rng:	E19
Qual Lith Data:	G	Legal Rng:	19E
Gravel Pack Top:	0	Sec:	13
Gravel Pack Bot:	0	Sec Quarters:	
Gravel Packed:	N	Legal Quarters:	
Top Perf:	187	Quarters Seq:	
Bottom Perf:	207	Latitude:	39.600276947021484
Perf Intervals:	1	Longitude:	119.7972183227539
Casing Diameter:	5.0	Lat Long Src:	NV003
Casing Reductions:	0	Lat Long Acc:	
Update User ID:		Utm X:	259819.232120183
Date Entry:		Utm Y:	4386923.076761521
Date Update:		Remarks Add:	
Date Cmpl Acc:	D		
Owner Address:	5726 URSULA SUN VALLEY NV		
Contractor Addr:	625 SPICE ISL DR STE L SPARKS		
Remarks:			

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
18	NNW	0.55	2,883.18	5,009.69	WATER WELLS

Well Log:	12668	Notice of Intent:	0
Waiver No:		Yield:	15.0
Sequence No:	78957	Drawdown:	75.0
Date Log Rcvd Acc:	D	Hours Pumped:	
Date Log Rcvd:	10/17/1972	Static Wl:	60.0
Well Start Date:	08/22/1972	Temperature:	60.0
Well Finish Date:	08/22/1972	Ref:	MD
Edit Status:	F	App:	
Site Type Code:	N	Source Agency:	NV003
Site Type Desc:	New	Owner No:	
Work Type Code:	N	Owner Current:	MOORE, DUANE

Wells and Additional Sources Detail Report

Work Type Desc:	New	Driller Lic No:	493
Work Type Rmks:		Contractor Lic No:	9767
Prop Use Code:	H	Contractor Drlr No:	
Prop Use Desc:	Domestic	Contractor Name:	W L MCDONALD AND CO INC
Drilling Mthd Code:	H	User ID:	DBRANTLEY
Drilling Mthd Desc:	Hydraulic Rotary-Mud	Parcel No:	
Test Method Code:	A	Lot No:	
Test Mthd Desc:	Air Lift	Block No:	
Aquifer Desc:		Subdivision Name:	
Depth Seal:	57	SC:	32031
Depth Drilled:	105	HA:	086
Depth Bedrock:		Twn:	N20
Depth Cased:	105	Legal Twn:	20N
Qual Const Data:	G	Rng:	E19
Qual Lith Data:	G	Legal Rng:	19E
Gravel Pack Top:		Sec:	13
Gravel Pack Bot:		Sec Quarters:	
Gravel Packed:	N	Legal Quarters:	
Top Perf:	75	Quarters Seq:	
Bottom Perf:	105	Latitude:	39.600276947021484
Perf Intervals:	1	Longitude:	119.7972183227539
Casing Diameter:	6.625	Lat Long Src:	NV003
Casing Reductions:	0	Lat Long Acc:	M
Update User ID:	SCOX	Utm X:	259819.232120201
Date Entry:	02/25/2004	Utm Y:	4386923.07676152
Date Update:	03/25/2004	Remarks Add:	
Date Cmpl Acc:	D		
Owner Address:	2885 KIETZKE LN		
Contractor Addr:	1955 18TH ST SPARKS NV 89431		
Remarks:			

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
18	NNW	0.55	2,883.18	5,009.69	WATER WELLS

Well Log:	19839	Notice of Intent:	0
Waiver No:		Yield:	25.0
Sequence No:	78477	Drawdown:	
Date Log Rcvd Acc:	D	Hours Pumped:	
Date Log Rcvd:	05/25/1979	Static Wl:	35.0
Well Start Date:	05/22/1979	Temperature:	
Well Finish Date:	05/23/1979	Ref:	MD
Edit Status:	F	App:	
Site Type Code:	N	Source Agency:	NV003
Site Type Desc:	New	Owner No:	
Work Type Code:	N	Owner Current:	NOVELLY, RAY & VONDA
Work Type Desc:	New	Driller Lic No:	81

Wells and Additional Sources Detail Report

Work Type Rmks:	Contractor Lic No: 14043
Prop Use Code: H	Contractor Drlr No:
Prop Use Desc: Domestic	Contractor Name: WAYNE DRILLING INC
Drilling Mthd Code: A	User ID: CLHUNT
Drilling Mthd Desc: Air Rotary	Parcel No: 88-220-12
Test Method Code: U	Lot No:
Test Mthd Desc: Unknown	Block No:
Aquifer Desc:	Subdivision Name:
Depth Seal: 60	SC: 32031
Depth Drilled: 100	HA: 086
Depth Bedrock:	Twn: N20
Depth Cased: 100	Legal Twn: 20N
Qual Const Data: G	Rng: E19
Qual Lith Data: G	Legal Rng: 19E
Gravel Pack Top: 60	Sec: 13
Gravel Pack Bot: 100	Sec Quarters:
Gravel Packed: Y	Legal Quarters:
Top Perf: 80	Quarters Seq:
Bottom Perf: 100	Latitude: 39.600276947021484
Perf Intervals: 1	Longitude: 119.7972183227539
Casing Diameter: 6.625	Lat Long Src: NV003
Casing Reductions: 0	Lat Long Acc: M
Update User ID: MDILLON	Utm X: 259819.232120201
Date Entry: 02/03/2004	Utm Y: 4386923.07676152
Date Update: 05/07/2004	Remarks Add:
Date Cmpl Acc: D	
Owner Address: 5738 FLYNN	
Contractor Addr: P O BOX 12370 RENO, NV 89510	
Remarks:	

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
18	NNW	0.55	2,883.18	5,009.69	WATER WELLS

Well Log: 23518	Notice of Intent: 0
Waiver No:	Yield:
Sequence No: 75902	Drawdown:
Date Log Rcvd Acc: D	Hours Pumped:
Date Log Rcvd: 02/16/1982	Static WI: 105.0
Well Start Date: 02/02/1982	Temperature:
Well Finish Date: 02/04/1982	Ref: MD
Edit Status: F	App:
Site Type Code: N	Source Agency: NV003
Site Type Desc: New	Owner No:
Work Type Code: N	Owner Current: RANEY, KEN AND HELEN
Work Type Desc: New	Driller Lic No: 923
Work Type Rmks:	Contractor Lic No: 14043

Wells and Additional Sources Detail Report

Prop Use Code:	H	Contractor Drlr No:	
Prop Use Desc:	Domestic	Contractor Name:	WAYNE DRILLING INC
Drilling Mthd Code:	A	User ID:	CLHUNT
Drilling Mthd Desc:	Air Rotary	Parcel No:	
Test Method Code:	U	Lot No:	
Test Mthd Desc:	Unknown	Block No:	
Aquifer Desc:		Subdivision Name:	
Depth Seal:	47	SC:	32031
Depth Drilled:	188	HA:	086
Depth Bedrock:		Twn:	N20
Depth Cased:	188	Legal Twn:	20N
Qual Const Data:	G	Rng:	E19
Qual Lith Data:	G	Legal Rng:	19E
Gravel Pack Top:	47	Sec:	13
Gravel Pack Bot:	188	Sec Quarters:	
Gravel Packed:	Y	Legal Quarters:	
Top Perf:	155	Quarters Seq:	
Bottom Perf:	188	Latitude:	39.600276947021484
Perf Intervals:	1	Longitude:	119.7972183227539
Casing Diameter:	6.625	Lat Long Src:	NV003
Casing Reductions:	0	Lat Long Acc:	M
Update User ID:		Utm X:	259819.232120201
Date Entry:	10/28/2003	Utm Y:	4386923.07676152
Date Update:		Remarks Add:	
Date Cmpl Acc:	D		
Owner Address:	SUN VALLEY		
Contractor Addr:	P O BOX 12370 RENO NV 89510		
Remarks:			

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
18	NNW	0.55	2,883.18	5,009.69	WATER WELLS

Well Log:	25119	Notice of Intent:	2771
Waiver No:		Yield:	40.0
Sequence No:	392	Drawdown:	
Date Log Rcvd Acc:		Hours Pumped:	
Date Log Rcvd:		Static Wl:	90.0
Well Start Date:	01/24/1984	Temperature:	58.0
Well Finish Date:	01/26/1984	Ref:	MD
Edit Status:	F	App:	
Site Type Code:	N	Source Agency:	NV003
Site Type Desc:	New	Owner No:	
Work Type Code:	N	Owner Current:	SMITH, DEAN
Work Type Desc:	New	Driller Lic No:	957
Work Type Rmks:		Contractor Lic No:	14483
Prop Use Code:	H	Contractor Drlr No:	957

Wells and Additional Sources Detail Report

Prop Use Desc:	Domestic	Contractor Name:	PAUL WILLIAMS & SONS
Drilling Mthd Code:	R	User ID:	
Drilling Mthd Desc:	Reverse rotary	Parcel No:	
Test Method Code:	U	Lot No:	
Test Mthd Desc:	Unknown	Block No:	
Aquifer Desc:		Subdivision Name:	
Depth Seal:	52	SC:	32031
Depth Drilled:	151	HA:	086
Depth Bedrock:		Twn:	N20
Depth Cased:	151	Legal Twn:	20N
Qual Const Data:	G	Rng:	E19
Qual Lith Data:	G	Legal Rng:	19E
Gravel Pack Top:	52	Sec:	13
Gravel Pack Bot:	151	Sec Quarters:	
Gravel Packed:	Y	Legal Quarters:	
Top Perf:	131	Quarters Seq:	
Bottom Perf:	151	Latitude:	39.600276947021484
Perf Intervals:	1	Longitude:	119.7972183227539
Casing Diameter:	6.62	Lat Long Src:	NV003
Casing Reductions:	0	Lat Long Acc:	
Update User ID:	CLHUNT	Utm X:	259819.232120201
Date Entry:		Utm Y:	4386923.07676152
Date Update:	10/28/2003	Remarks Add:	
Date Cmpl Acc:	D		
Owner Address:			
Contractor Addr:			
Remarks:	LOC AT SUN VALLEY		

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
18	NNW	0.55	2,883.18	5,009.69	WATER WELLS

Well Log:	26037	Notice of Intent:	5520
Waiver No:		Yield:	
Sequence No:	393	Drawdown:	
Date Log Rcvd Acc:		Hours Pumped:	
Date Log Rcvd:		Static Wl:	32.0
Well Start Date:		Temperature:	
Well Finish Date:	02/20/1985	Ref:	MD
Edit Status:	F	App:	
Site Type Code:	N	Source Agency:	NV003
Site Type Desc:	New	Owner No:	
Work Type Code:	N	Owner Current:	WADE, JOE
Work Type Desc:	New	Driller Lic No:	1037
Work Type Rmks:		Contractor Lic No:	15291
Prop Use Code:	H	Contractor Drlr No:	1132
Prop Use Desc:	Domestic	Contractor Name:	AQUA DRILLING & WELL SERVICE

Wells and Additional Sources Detail Report

Drilling Mthd Code:	A	User ID:	
Drilling Mthd Desc:	Air Rotary	Parcel No:	88-220-36
Test Method Code:	C	Lot No:	
Test Mthd Desc:	Centrifugal Pump	Block No:	
Aquifer Desc:		Subdivision Name:	SUN VALLEY
Depth Seal:	50	SC:	32031
Depth Drilled:	122	HA:	086
Depth Bedrock:		Twn:	N20
Depth Cased:	124	Legal Twn:	20N
Qual Const Data:		Rng:	E19
Qual Lith Data:		Legal Rng:	19E
Gravel Pack Top:	0	Sec:	13
Gravel Pack Bot:	0	Sec Quarters:	
Gravel Packed:	Y	Legal Quarters:	
Top Perf:	102	Quarters Seq:	
Bottom Perf:	122	Latitude:	39.600276947021484
Perf Intervals:	1	Longitude:	119.7972183227539
Casing Diameter:	6.62	Lat Long Src:	NV003
Casing Reductions:	0	Lat Long Acc:	
Update User ID:		Utm X:	259819.232120183
Date Entry:		Utm Y:	4386923.076761521
Date Update:		Remarks Add:	
Date Cmpl Acc:	D		
Owner Address:			
Contractor Addr:			
Remarks:	LOC. 5726 URSULA SUN VALLEY		

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
19	E	0.55	2,904.05	4,689.80	WATER WELLS

Well Log:	116566	Notice of Intent:	65728
Waiver No:		Yield:	
Sequence No:	116327	Drawdown:	
Date Log Rcvd Acc:	D	Hours Pumped:	
Date Log Rcvd:	07/05/2012	Static Wl:	8.0
Well Start Date:	06/07/2012	Temperature:	
Well Finish Date:	06/07/2012	Ref:	MD
Edit Status:	F	App:	
Site Type Code:	E	Source Agency:	NV003
Site Type Desc:	Existing (Deepen)	Owner No:	
Work Type Code:	P	Owner Current:	HUTTON NEVADA ONE LLC
Work Type Desc:	Plug or Abandonment	Driller Lic No:	2121
Work Type Rmks:		Contractor Lic No:	14170
Prop Use Code:	H	Contractor Drlr No:	
Prop Use Desc:	Domestic	Contractor Name:	MCKAY DRILLING INC
Drilling Mthd Code:	Z	User ID:	SGILBERT

Wells and Additional Sources Detail Report

Drilling Mthd Desc:	Other (explain in remarks)	Parcel No:	085-155-32
Test Method Code:		Lot No:	
Test Mthd Desc:		Block No:	
Aquifer Desc:		Subdivision Name:	
Depth Seal:		SC:	32031
Depth Drilled:	71	HA:	086
Depth Bedrock:		Twn:	N20
Depth Cased:	71	Legal Twn:	20N
Qual Const Data:	G	Rng:	E20
Qual Lith Data:	G	Legal Rng:	20E
Gravel Pack Top:		Sec:	19
Gravel Pack Bot:		Sec Quarters:	AC
Gravel Packed:		Legal Quarters:	SW NE
Top Perf:	40	Quarters Seq:	
Bottom Perf:	71	Latitude:	39.58787
Perf Intervals:	1	Longitude:	119.778976
Casing Diameter:	6.625	Lat Long Src:	
Casing Reductions:	1	Lat Long Acc:	H
Update User ID:		Utm X:	261343.548952576
Date Entry:	04/08/2013	Utm Y:	4385497.10803728
Date Update:		Remarks Add:	
Date Cmpl Acc:	D		
Owner Address:	5330 SUN VALLEY BLVD		
Contractor Addr:	4805 JOULE ST UNIT A5 RENO, NV 89502		
Remarks:			

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
20	SE	0.56	2,944.57	4,656.49	WATER WELLS

Well Log:	114814	Notice of Intent:	67143
Waiver No:		Yield:	
Sequence No:	114424	Drawdown:	
Date Log Rcvd Acc:	D	Hours Pumped:	
Date Log Rcvd:	03/14/2012	Static Wl:	18.0
Well Start Date:	03/07/2012	Temperature:	
Well Finish Date:	03/07/2012	Ref:	MD
Edit Status:	F	App:	
Site Type Code:	N	Source Agency:	NV003
Site Type Desc:	New	Owner No:	MW-9
Work Type Code:	N	Owner Current:	TIME OIL COMPANY
Work Type Desc:	New	Driller Lic No:	2079
Work Type Rmks:	NDEP FACILITY ID NO 4-000408	Contractor Lic No:	73966
Prop Use Code:	G	Contractor Drlr No:	
Prop Use Desc:	Monitoring Well	Contractor Name:	CASCADE DRILLING LP
Drilling Mthd Code:	B	User ID:	LYNJOHNSON
Drilling Mthd Desc:	Bored or Augered	Parcel No:	085-851-15

Wells and Additional Sources Detail Report

Test Method Code:		Lot No:	
Test Mthd Desc:		Block No:	
Aquifer Desc:		Subdivision Name:	
Depth Seal:	3	SC:	32031
Depth Drilled:	31	HA:	092B
Depth Bedrock:		Twn:	N20
Depth Cased:	31	Legal Twn:	20N
Qual Const Data:	G	Rng:	E20
Qual Lith Data:	G	Legal Rng:	20E
Gravel Pack Top:	4	Sec:	19
Gravel Pack Bot:	31	Sec Quarters:	DC
Gravel Packed:	Y	Legal Quarters:	SW SE
Top Perf:	5	Quarters Seq:	
Bottom Perf:	30	Latitude:	39.581534
Perf Intervals:	1	Longitude:	119.778835
Casing Diameter:	2.0	Lat Long Src:	
Casing Reductions:	0	Lat Long Acc:	
Update User ID:		Utm X:	261333.906233094
Date Entry:	04/09/2012	Utm Y:	4384793.40591929
Date Update:		Remarks Add:	
Date Cmpl Acc:	D		
Owner Address:	5190 SUN VALLEY BLVD., RENO, NV		
Contractor Addr:	PO BOX 1184 WOODINVILLE, WA 98072		
Remarks:			

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
21	SE	0.56	2,953.24	4,656.49	WATER WELLS

Well Log:	114816	Notice of Intent:	67144
Waiver No:	R-692	Yield:	
Sequence No:	114426	Drawdown:	
Date Log Rcvd Acc:	D	Hours Pumped:	
Date Log Rcvd:	03/14/2012	Static WI:	18.0
Well Start Date:	03/07/2012	Temperature:	
Well Finish Date:	03/07/2012	Ref:	MD
Edit Status:	F	App:	
Site Type Code:	N	Source Agency:	NV003
Site Type Desc:	New	Owner No:	DPE-1
Work Type Code:	N	Owner Current:	TIME OIL COMPANY
Work Type Desc:	New	Driller Lic No:	2079
Work Type Rmks:	NDEP NO 4-000408	Contractor Lic No:	73966
Prop Use Code:	G	Contractor Drlr No:	
Prop Use Desc:	Monitoring Well	Contractor Name:	CASCADE DRILLING LP
Drilling Mthd Code:	B	User ID:	LYNJOHNSON
Drilling Mthd Desc:	Bored or Augered	Parcel No:	085-851-15
Test Method Code:		Lot No:	

Wells and Additional Sources Detail Report

Test Mthd Desc:		Block No:	
Aquifer Desc:		Subdivision Name:	
Depth Seal:	6	SC:	32031
Depth Drilled:	41	HA:	092B
Depth Bedrock:		Twn:	N20
Depth Cased:	40	Legal Twn:	20N
Qual Const Data:	G	Rng:	E20
Qual Lith Data:	G	Legal Rng:	20E
Gravel Pack Top:	8	Sec:	19
Gravel Pack Bot:	41	Sec Quarters:	DC
Gravel Packed:	Y	Legal Quarters:	SW SE
Top Perf:	10	Quarters Seq:	
Bottom Perf:	40	Latitude:	39.581542
Perf Intervals:	1	Longitude:	119.778804
Casing Diameter:	2.0	Lat Long Src:	
Casing Reductions:	0	Lat Long Acc:	
Update User ID:		Utm X:	261336.59659402
Date Entry:	04/09/2012	Utm Y:	4384794.21160286
Date Update:		Remarks Add:	
Date Cmpl Acc:	D		
Owner Address:	5190 SUN VALLEY BLVD.		
Contractor Addr:	PO BOX 1184 WOODINVILLE, WA 98072		
Remarks:			

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
22	SE	0.57	3,002.49	4,655.93	WATER WELLS

Well Log:	114815	Notice of Intent:	67143
Waiver No:		Yield:	
Sequence No:	114425	Drawdown:	
Date Log Rcvd Acc:	D	Hours Pumped:	
Date Log Rcvd:	03/14/2012	Static Wl:	12.0
Well Start Date:	03/07/2012	Temperature:	
Well Finish Date:	03/07/2012	Ref:	MD
Edit Status:	F	App:	
Site Type Code:	N	Source Agency:	NV003
Site Type Desc:	New	Owner No:	MW-10
Work Type Code:	N	Owner Current:	TIME OIL COMPANY
Work Type Desc:	New	Driller Lic No:	2079
Work Type Rmks:	NDEP NO 4-000408	Contractor Lic No:	73966
Prop Use Code:	G	Contractor Drlr No:	
Prop Use Desc:	Monitoring Well	Contractor Name:	CASCADE DRILLING LP
Drilling Mthd Code:	B	User ID:	LYNJOHNSON
Drilling Mthd Desc:	Bored or Augered	Parcel No:	085-851-15
Test Method Code:		Lot No:	
Test Mthd Desc:		Block No:	

Wells and Additional Sources Detail Report

Aquifer Desc:		Subdivision Name:	
Depth Seal:	2	SC:	32031
Depth Drilled:	20	HA:	092B
Depth Bedrock:		Twn:	N20
Depth Cased:	18	Legal Twn:	20N
Qual Const Data:	G	Rng:	E20
Qual Lith Data:	G	Legal Rng:	20E
Gravel Pack Top:	3	Sec:	19
Gravel Pack Bot:	19	Sec Quarters:	DC
Gravel Packed:	Y	Legal Quarters:	SW SE
Top Perf:	4	Quarters Seq:	
Bottom Perf:	18	Latitude:	39.581553
Perf Intervals:	1	Longitude:	119.778629
Casing Diameter:	2.0	Lat Long Src:	
Casing Reductions:	0	Lat Long Acc:	
Update User ID:		Utm X:	261351.666833661
Date Entry:	04/09/2012	Utm Y:	4384794.96776233
Date Update:		Remarks Add:	
Date Cmpl Acc:	D		
Owner Address:	5190 SUN VALLEY BLVD.		
Contractor Addr:	PO BOX 1184 WOODINVILLE, WA 98072		
Remarks:			

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
23	ESE	0.57	3,011.32	4,677.89	WATER WELLS

Well Log:	8533	Notice of Intent:	0
Waiver No:		Yield:	20.0
Sequence No:	82174	Drawdown:	
Date Log Rcvd Acc:	D	Hours Pumped:	
Date Log Rcvd:	06/04/1965	Static WI:	30.0
Well Start Date:	05/24/1965	Temperature:	
Well Finish Date:	05/25/1965	Ref:	MD
Edit Status:	F	App:	
Site Type Code:	N	Source Agency:	NV003
Site Type Desc:	New	Owner No:	
Work Type Code:	N	Owner Current:	EAST, HOWARD S
Work Type Desc:	New	Driller Lic No:	301
Work Type Rmks:		Contractor Lic No:	301
Prop Use Code:	H	Contractor Drlr No:	
Prop Use Desc:	Domestic	Contractor Name:	W E BLAIN
Drilling Mthd Code:	C	User ID:	SCOX
Drilling Mthd Desc:	Cable tool	Parcel No:	
Test Method Code:	B	Lot No:	
Test Mthd Desc:	Bucket	Block No:	
Aquifer Desc:		Subdivision Name:	

Wells and Additional Sources Detail Report

Depth Seal:		SC:	32031
Depth Drilled:	63	HA:	086
Depth Bedrock:		Twn:	N20
Depth Cased:	64	Legal Twn:	20N
Qual Const Data:	G	Rng:	E20
Qual Lith Data:	G	Legal Rng:	20E
Gravel Pack Top:		Sec:	19
Gravel Pack Bot:		Sec Quarters:	
Gravel Packed:		Legal Quarters:	
Top Perf:	52	Quarters Seq:	
Bottom Perf:	64	Latitude:	39.58583068847656
Perf Intervals:	1	Longitude:	119.77861785888672
Casing Diameter:	6.0	Lat Long Src:	NV003
Casing Reductions:	0	Lat Long Acc:	M
Update User ID:		Utm X:	261367.897727556
Date Entry:	05/12/2004	Utm Y:	4385270.0584431
Date Update:		Remarks Add:	
Date Cmpl Acc:	D		
Owner Address:			
Contractor Addr:	BOX 255 CARSON		
Remarks:			

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
23	ESE	0.57	3,011.32	4,677.89	WATER WELLS

Well Log:	3971	Notice of Intent:	0
Waiver No:		Yield:	
Sequence No:	82211	Drawdown:	
Date Log Rcvd Acc:	D	Hours Pumped:	
Date Log Rcvd:	01/10/1958	Static Wl:	154.0
Well Start Date:	11/15/1957	Temperature:	
Well Finish Date:	11/30/1957	Ref:	MD
Edit Status:	F	App:	
Site Type Code:	N	Source Agency:	NV003
Site Type Desc:	New	Owner No:	
Work Type Code:	N	Owner Current:	WILLIS, EVELYN & STONE, PHILLIS
Work Type Desc:	New	Driller Lic No:	257
Work Type Rmks:		Contractor Lic No:	257
Prop Use Code:	H	Contractor Drlr No:	
Prop Use Desc:	Domestic	Contractor Name:	WAYNE BURROUGHS
Drilling Mthd Code:	C	User ID:	SCOX
Drilling Mthd Desc:	Cable tool	Parcel No:	
Test Method Code:		Lot No:	
Test Mthd Desc:		Block No:	
Aquifer Desc:		Subdivision Name:	
Depth Seal:		SC:	32031

Wells and Additional Sources Detail Report

Depth Drilled:	353	HA:	086
Depth Bedrock:		Twn:	N20
Depth Cased:	219	Legal Twn:	20N
Qual Const Data:	G	Rng:	E20
Qual Lith Data:	G	Legal Rng:	20E
Gravel Pack Top:		Sec:	19
Gravel Pack Bot:		Sec Quarters:	
Gravel Packed:		Legal Quarters:	
Top Perf:		Quarters Seq:	
Bottom Perf:		Latitude:	39.58583068847656
Perf Intervals:	1	Longitude:	119.77861785888672
Casing Diameter:	6.0	Lat Long Src:	NV003
Casing Reductions:	0	Lat Long Acc:	M
Update User ID:	SCOX	Utm X:	261367.897727556
Date Entry:	05/12/2004	Utm Y:	4385270.0584431
Date Update:	06/02/2004	Remarks Add:	
Date Cmpl Acc:	D		
Owner Address:	511 W 3RD ST RENO NE PORTION OF SUN VALLEY		
Contractor Addr:	2171 E SECOND STREET		
Remarks:			

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
23	ESE	0.57	3,011.32	4,677.89	WATER WELLS

Well Log:	1209	Notice of Intent:	0
Waiver No:		Yield:	20.0
Sequence No:	82244	Drawdown:	
Date Log Rcvd Acc:	D	Hours Pumped:	
Date Log Rcvd:	02/16/1950	Static Wl:	28.0
Well Start Date:	02/10/1950	Temperature:	
Well Finish Date:	02/10/1950	Ref:	MD
Edit Status:	F	App:	
Site Type Code:	N	Source Agency:	NV003
Site Type Desc:	New	Owner No:	
Work Type Code:	N	Owner Current:	ROBERTS, JOHN M AND IRENE M
Work Type Desc:	New	Driller Lic No:	75
Work Type Rmks:		Contractor Lic No:	75
Prop Use Code:	H	Contractor Drlr No:	
Prop Use Desc:	Domestic	Contractor Name:	C C MOON
Drilling Mthd Code:	C	User ID:	SCOX
Drilling Mthd Desc:	Cable tool	Parcel No:	
Test Method Code:	B	Lot No:	12
Test Mthd Desc:	Bucket	Block No:	A
Aquifer Desc:		Subdivision Name:	
Depth Seal:		SC:	32031
Depth Drilled:	70	HA:	086

Wells and Additional Sources Detail Report

Depth Bedrock:		TwN:	N20
Depth Cased:	56	Legal TwN:	20N
Qual Const Data:	G	Rng:	E20
Qual Lith Data:	G	Legal Rng:	20E
Gravel Pack Top:		Sec:	19
Gravel Pack Bot:		Sec Quarters:	
Gravel Packed:		Legal Quarters:	
Top Perf:	40	Quarters Seq:	
Bottom Perf:	56	Latitude:	39.58583068847656
Perf Intervals:	1	Longitude:	119.77861785888672
Casing Diameter:	6.0	Lat Long Src:	NV003
Casing Reductions:	0	Lat Long Acc:	M
Update User ID:		Utm X:	261367.897727556
Date Entry:	05/12/2004	Utm Y:	4385270.0584431
Date Update:		Remarks Add:	
Date Cmpl Acc:	D		
Owner Address:	SUN VALLEY		
Contractor Addr:	665 WEST ST		
Remarks:			

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
23	ESE	0.57	3,011.32	4,677.89	WATER WELLS

Well Log:	2845	Notice of Intent:	0
Waiver No:		Yield:	
Sequence No:	82223	Drawdown:	
Date Log Rcvd Acc:	D	Hours Pumped:	
Date Log Rcvd:	03/01/1955	Static Wl:	35.0
Well Start Date:	01/18/1955	Temperature:	40.0
Well Finish Date:	01/29/1955	Ref:	MD
Edit Status:	F	App:	
Site Type Code:	N	Source Agency:	NV003
Site Type Desc:	New	Owner No:	
Work Type Code:	N	Owner Current:	VOLUNTEER FIRE DEPT
Work Type Desc:	New	Driller Lic No:	180
Work Type Rmks:		Contractor Lic No:	180
Prop Use Code:	H	Contractor Drlr No:	
Prop Use Desc:	Domestic	Contractor Name:	RUSS BRADEN
Drilling Mthd Code:	C	User ID:	SCOX
Drilling Mthd Desc:	Cable tool	Parcel No:	
Test Method Code:		Lot No:	
Test Mthd Desc:		Block No:	
Aquifer Desc:		Subdivision Name:	
Depth Seal:		SC:	32031
Depth Drilled:	95	HA:	086
Depth Bedrock:		TwN:	N20

Wells and Additional Sources Detail Report

Depth Cased:	95	Legal Twn:	20N
Qual Const Data:	G	Rng:	E20
Qual Lith Data:	G	Legal Rng:	20E
Gravel Pack Top:		Sec:	19
Gravel Pack Bot:		Sec Quarters:	
Gravel Packed:		Legal Quarters:	
Top Perf:	80	Quarters Seq:	
Bottom Perf:	95	Latitude:	39.58583068847656
Perf Intervals:	1	Longitude:	119.77861785888672
Casing Diameter:	5.6	Lat Long Src:	NV003
Casing Reductions:	0	Lat Long Acc:	M
Update User ID:		Utm X:	261367.897727556
Date Entry:	05/12/2004	Utm Y:	4385270.0584431
Date Update:		Remarks Add:	
Date Cmpl Acc:	D		
Owner Address:	SUN VALLEY		
Contractor Addr:	RT1 BOX 445A RENO		
Remarks:			

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
23	ESE	0.57	3,011.32	4,677.89	WATER WELLS

Well Log:	2822	Notice of Intent:	0
Waiver No:		Yield:	
Sequence No:	82229	Drawdown:	
Date Log Rcvd Acc:	D	Hours Pumped:	
Date Log Rcvd:	01/17/1955	Static Wl:	60.0
Well Start Date:	12/18/1954	Temperature:	40.0
Well Finish Date:	12/21/1954	Ref:	MD
Edit Status:	F	App:	
Site Type Code:	N	Source Agency:	NV003
Site Type Desc:	New	Owner No:	
Work Type Code:	N	Owner Current:	MAIER, L
Work Type Desc:	New	Driller Lic No:	180
Work Type Rmks:		Contractor Lic No:	180
Prop Use Code:	H	Contractor Drlr No:	
Prop Use Desc:	Domestic	Contractor Name:	RUSS BRADEN
Drilling Mthd Code:	C	User ID:	SCOX
Drilling Mthd Desc:	Cable tool	Parcel No:	
Test Method Code:		Lot No:	
Test Mthd Desc:		Block No:	
Aquifer Desc:		Subdivision Name:	
Depth Seal:		SC:	32031
Depth Drilled:	85	HA:	086
Depth Bedrock:		Twn:	N20
Depth Cased:	85	Legal Twn:	20N

Wells and Additional Sources Detail Report

Qual Const Data:	G	Rng:	E20
Qual Lith Data:	G	Legal Rng:	20E
Gravel Pack Top:		Sec:	19
Gravel Pack Bot:		Sec Quarters:	
Gravel Packed:		Legal Quarters:	
Top Perf:	60	Quarters Seq:	
Bottom Perf:	85	Latitude:	39.58583068847656
Perf Intervals:	1	Longitude:	119.77861785888672
Casing Diameter:	6.0	Lat Long Src:	NV003
Casing Reductions:	0	Lat Long Acc:	M
Update User ID:		Utm X:	261367.897727556
Date Entry:	05/12/2004	Utm Y:	4385270.0584431
Date Update:		Remarks Add:	
Date Cmpl Acc:	D		
Owner Address:	7TH AVE SUN VALLEY		
Contractor Addr:	RENO		
Remarks:			

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
23	ESE	0.57	3,011.32	4,677.89	WATER WELLS

Well Log:	887	Notice of Intent:	0
Waiver No:		Yield:	20.0
Sequence No:	82245	Drawdown:	
Date Log Rcvd Acc:	D	Hours Pumped:	
Date Log Rcvd:	05/20/1949	Static WI:	24.0
Well Start Date:	03/23/1949	Temperature:	50.0
Well Finish Date:	03/26/1949	Ref:	MD
Edit Status:	F	App:	
Site Type Code:	N	Source Agency:	NV003
Site Type Desc:	New	Owner No:	
Work Type Code:	N	Owner Current:	SWAIN, CHESTER R
Work Type Desc:	New	Driller Lic No:	75
Work Type Rmks:		Contractor Lic No:	75
Prop Use Code:	H	Contractor Drlr No:	
Prop Use Desc:	Domestic	Contractor Name:	C C MOON
Drilling Mthd Code:	C	User ID:	SCOX
Drilling Mthd Desc:	Cable tool	Parcel No:	
Test Method Code:	U	Lot No:	8
Test Mthd Desc:	Unknown	Block No:	B
Aquifer Desc:		Subdivision Name:	
Depth Seal:		SC:	32031
Depth Drilled:	50	HA:	086
Depth Bedrock:		Twn:	N20
Depth Cased:	42	Legal Twn:	20N
Qual Const Data:	G	Rng:	E20

Wells and Additional Sources Detail Report

Qual Lith Data: G	Legal Rng: 20E
Gravel Pack Top:	Sec: 19
Gravel Pack Bot:	Sec Quarters:
Gravel Packed:	Legal Quarters:
Top Perf: 33	Quarters Seq:
Bottom Perf: 42	Latitude: 39.58583068847656
Perf Intervals: 1	Longitude: 119.77861785888672
Casing Diameter: 6.0	Lat Long Src: NV003
Casing Reductions: 0	Lat Long Acc: M
Update User ID: SCOX	Utm X: 261367.897727556
Date Entry: 05/12/2004	Utm Y: 4385270.0584431
Date Update: 06/02/2004	Remarks Add:
Date Cmpl Acc: D	
Owner Address: SUN VALLEY	
Contractor Addr: 665 WEST ST	
Remarks:	

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
23	ESE	0.57	3,011.32	4,677.89	WATER WELLS

Well Log: 2624	Notice of Intent: 0
Waiver No:	Yield:
Sequence No: 82231	Drawdown:
Date Log Rcvd Acc: D	Hours Pumped:
Date Log Rcvd: 06/18/1954	Static Wl: 98.0
Well Start Date: 12/14/1953	Temperature:
Well Finish Date: 01/01/1954	Ref: MD
Edit Status: F	App:
Site Type Code: N	Source Agency: NV003
Site Type Desc: New	Owner No:
Work Type Code: N	Owner Current: VAN DYKE, WILLIAM
Work Type Desc: New	Driller Lic No: 29
Work Type Rmks:	Contractor Lic No: 29
Prop Use Code: H	Contractor Drlr No:
Prop Use Desc: Domestic	Contractor Name: JOHN CHAMPION
Drilling Mthd Code: C	User ID: SCOX
Drilling Mthd Desc: Cable tool	Parcel No:
Test Method Code:	Lot No:
Test Mthd Desc:	Block No:
Aquifer Desc:	Subdivision Name:
Depth Seal:	SC: 32031
Depth Drilled: 155	HA: 086
Depth Bedrock:	Twn: N20
Depth Cased: 155	Legal Twn: 20N
Qual Const Data: G	Rng: E20
Qual Lith Data: G	Legal Rng: 20E

Wells and Additional Sources Detail Report

Gravel Pack Top:		Sec:	19
Gravel Pack Bot:		Sec Quarters:	
Gravel Packed:		Legal Quarters:	
Top Perf:	135	Quarters Seq:	
Bottom Perf:	155	Latitude:	39.58583068847656
Perf Intervals:	1	Longitude:	119.77861785888672
Casing Diameter:		Lat Long Src:	NV003
Casing Reductions:	0	Lat Long Acc:	M
Update User ID:		Utm X:	261367.897727556
Date Entry:	05/12/2004	Utm Y:	4385270.0584431
Date Update:		Remarks Add:	
Date Cmpl Acc:	D		
Owner Address:	SUN VALLEY ROAD		
Contractor Addr:	RTE 1 BOX 352		
Remarks:			

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
23	ESE	0.57	3,011.32	4,677.89	WATER WELLS

Well Log:	8542	Notice of Intent:	0
Waiver No:		Yield:	
Sequence No:	82173	Drawdown:	
Date Log Rcvd Acc:	D	Hours Pumped:	
Date Log Rcvd:	06/18/1965	Static Wl:	50.0
Well Start Date:	07/27/1964	Temperature:	
Well Finish Date:	08/12/1964	Ref:	MD
Edit Status:	F	App:	
Site Type Code:	N	Source Agency:	NV003
Site Type Desc:	New	Owner No:	
Work Type Code:	N	Owner Current:	ORR, CLAIRE M
Work Type Desc:	New	Driller Lic No:	7373
Work Type Rmks:		Contractor Lic No:	
Prop Use Code:	H	Contractor Drlr No:	
Prop Use Desc:	Domestic	Contractor Name:	THAIROL SESSIONS
Drilling Mthd Code:	C	User ID:	SCOX
Drilling Mthd Desc:	Cable tool	Parcel No:	
Test Method Code:		Lot No:	
Test Mthd Desc:		Block No:	
Aquifer Desc:		Subdivision Name:	
Depth Seal:		SC:	32031
Depth Drilled:	202	HA:	086
Depth Bedrock:		Twn:	N20
Depth Cased:	200	Legal Twn:	20N
Qual Const Data:	G	Rng:	E20
Qual Lith Data:	G	Legal Rng:	20E
Gravel Pack Top:		Sec:	19

Wells and Additional Sources Detail Report

Gravel Pack Bot:	Sec Quarters:
Gravel Packed:	Legal Quarters:
Top Perf: 165	Quarters Seq:
Bottom Perf: 200	Latitude: 39.58583068847656
Perf Intervals: 1	Longitude: 119.77861785888672
Casing Diameter: 6.0	Lat Long Src: NV003
Casing Reductions: 0	Lat Long Acc: M
Update User ID:	Utm X: 261367.897727556
Date Entry: 05/12/2004	Utm Y: 4385270.0584431
Date Update:	Remarks Add:
Date Cmpl Acc: D	
Owner Address: 268 SIDEHILL DR SUN VALLEY	
Contractor Addr: 148 E 6TH SUN VALLEY	
Remarks:	

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
23	ESE	0.57	3,011.32	4,677.89	WATER WELLS

Well Log: 3681	Notice of Intent: 0
Waiver No:	Yield:
Sequence No: 82213	Drawdown:
Date Log Rcvd Acc: D	Hours Pumped:
Date Log Rcvd: 02/28/1957	Static Wl: 40.0
Well Start Date: 07/26/1956	Temperature:
Well Finish Date: 08/02/1956	Ref: MD
Edit Status: F	App:
Site Type Code: N	Source Agency: NV003
Site Type Desc: New	Owner No:
Work Type Code: N	Owner Current: GLEIM, R E
Work Type Desc: New	Driller Lic No: 257
Work Type Rmks:	Contractor Lic No: 257
Prop Use Code: H	Contractor Drlr No:
Prop Use Desc: Domestic	Contractor Name: WAYNE BURROUGHS
Drilling Mthd Code: C	User ID: SCOX
Drilling Mthd Desc: Cable tool	Parcel No:
Test Method Code:	Lot No:
Test Mthd Desc:	Block No:
Aquifer Desc:	Subdivision Name:
Depth Seal:	SC: 32031
Depth Drilled: 101	HA: 086
Depth Bedrock:	Twn: N20
Depth Cased: 97	Legal Twn: 20N
Qual Const Data: G	Rng: E20
Qual Lith Data: G	Legal Rng: 20E
Gravel Pack Top:	Sec: 19
Gravel Pack Bot:	Sec Quarters:

Wells and Additional Sources Detail Report

Gravel Packed:		Legal Quarters:	
Top Perf:	87	Quarters Seq:	
Bottom Perf:	97	Latitude:	39.58583068847656
Perf Intervals:	1	Longitude:	119.77861785888672
Casing Diameter:	6.0	Lat Long Src:	NV003
Casing Reductions:	0	Lat Long Acc:	M
Update User ID:		Utm X:	261367.897727556
Date Entry:	05/12/2004	Utm Y:	4385270.0584431
Date Update:		Remarks Add:	
Date Cmpl Acc:	D		
Owner Address:	367 CAROL DR SUN VALLEY		
Contractor Addr:	RENO		
Remarks:			

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
23	ESE	0.57	3,011.32	4,677.89	WATER WELLS

Well Log:	7535	Notice of Intent:	0
Waiver No:		Yield:	
Sequence No:	82176	Drawdown:	
Date Log Rcvd Acc:	D	Hours Pumped:	
Date Log Rcvd:	12/12/1963	Static Wl:	70.0
Well Start Date:	09/14/1963	Temperature:	
Well Finish Date:	09/19/1963	Ref:	MD
Edit Status:	F	App:	
Site Type Code:	N	Source Agency:	NV003
Site Type Desc:	New	Owner No:	
Work Type Code:	N	Owner Current:	ZUPANICH, JOHN
Work Type Desc:	New	Driller Lic No:	322
Work Type Rmks:		Contractor Lic No:	322
Prop Use Code:	H	Contractor Drlr No:	
Prop Use Desc:	Domestic	Contractor Name:	F R BAXTER
Drilling Mthd Code:	H	User ID:	SCOX
Drilling Mthd Desc:	Hydraulic Rotary-Mud	Parcel No:	
Test Method Code:		Lot No:	
Test Mthd Desc:		Block No:	
Aquifer Desc:		Subdivision Name:	
Depth Seal:		SC:	32031
Depth Drilled:	125	HA:	086
Depth Bedrock:		Twn:	N20
Depth Cased:	120	Legal Twn:	20N
Qual Const Data:	G	Rng:	E20
Qual Lith Data:	G	Legal Rng:	20E
Gravel Pack Top:		Sec:	19
Gravel Pack Bot:		Sec Quarters:	
Gravel Packed:		Legal Quarters:	

Wells and Additional Sources Detail Report

Top Perf:	100	Quarters Seq:	
Bottom Perf:	120	Latitude:	39.58583068847656
Perf Intervals:	1	Longitude:	119.77861785888672
Casing Diameter:	6.0	Lat Long Src:	NV003
Casing Reductions:	0	Lat Long Acc:	M
Update User ID:		Utm X:	261367.897727556
Date Entry:	05/12/2004	Utm Y:	4385270.0584431
Date Update:		Remarks Add:	
Date Cmpl Acc:	D		
Owner Address:	348 EAST 8TH AVE SUN VALLEY		
Contractor Addr:	ST R1 BOX 2490 CARSON		
Remarks:			

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
23	ESE	0.57	3,011.32	4,677.89	WATER WELLS

Well Log:	1850	Notice of Intent:	0
Waiver No:		Yield:	30.0
Sequence No:	82235	Drawdown:	
Date Log Rcvd Acc:	D	Hours Pumped:	
Date Log Rcvd:	02/11/1952	Static Wl:	35.0
Well Start Date:	11/10/1951	Temperature:	
Well Finish Date:	11/14/1951	Ref:	MD
Edit Status:	F	App:	
Site Type Code:	N	Source Agency:	NV003
Site Type Desc:	New	Owner No:	
Work Type Code:	N	Owner Current:	SUN VALLEY SCHOOL
Work Type Desc:	New	Driller Lic No:	29
Work Type Rmks:		Contractor Lic No:	29
Prop Use Code:	P	Contractor Drlr No:	
Prop Use Desc:	Public sup-municipal	Contractor Name:	JOHN CHAMPION
Drilling Mthd Code:	C	User ID:	SCOX
Drilling Mthd Desc:	Cable tool	Parcel No:	
Test Method Code:	U	Lot No:	
Test Mthd Desc:	Unknown	Block No:	
Aquifer Desc:		Subdivision Name:	
Depth Seal:		SC:	32031
Depth Drilled:	150	HA:	086
Depth Bedrock:		Twn:	N20
Depth Cased:	150	Legal Twn:	20N
Qual Const Data:	G	Rng:	E20
Qual Lith Data:	G	Legal Rng:	20E
Gravel Pack Top:		Sec:	19
Gravel Pack Bot:		Sec Quarters:	
Gravel Packed:		Legal Quarters:	
Top Perf:	100	Quarters Seq:	

Wells and Additional Sources Detail Report

Bottom Perf:	150	Latitude:	39.58583068847656
Perf Intervals:	1	Longitude:	119.77861785888672
Casing Diameter:	6.0	Lat Long Src:	NV003
Casing Reductions:	0	Lat Long Acc:	M
Update User ID:		Utm X:	261367.897727556
Date Entry:	05/12/2004	Utm Y:	4385270.0584431
Date Update:		Remarks Add:	
Date Cmpl Acc:	D		
Owner Address:			
Contractor Addr:			
Remarks:			

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
23	ESE	0.57	3,011.32	4,677.89	WATER WELLS

Well Log:	4425	Notice of Intent:	0
Waiver No:		Yield:	10.0
Sequence No:	82197	Drawdown:	
Date Log Rcvd Acc:	D	Hours Pumped:	
Date Log Rcvd:	03/02/1959	Static Wl:	
Well Start Date:	10/08/1958	Temperature:	55.0
Well Finish Date:	10/13/1958	Ref:	MD
Edit Status:	F	App:	
Site Type Code:	N	Source Agency:	NV003
Site Type Desc:	New	Owner No:	
Work Type Code:	N	Owner Current:	ATKINS, CHARLES
Work Type Desc:	New	Driller Lic No:	4507
Work Type Rmks:		Contractor Lic No:	4507
Prop Use Code:	H	Contractor Drlr No:	
Prop Use Desc:	Domestic	Contractor Name:	J N PITCHER COMPANY
Drilling Mthd Code:	C	User ID:	SCOX
Drilling Mthd Desc:	Cable tool	Parcel No:	
Test Method Code:	B	Lot No:	15
Test Mthd Desc:	Bucket	Block No:	A
Aquifer Desc:		Subdivision Name:	SUN VALLEY 4
Depth Seal:		SC:	32031
Depth Drilled:	118	HA:	086
Depth Bedrock:		Twn:	N20
Depth Cased:	118	Legal Twn:	20N
Qual Const Data:	G	Rng:	E20
Qual Lith Data:	G	Legal Rng:	20E
Gravel Pack Top:		Sec:	19
Gravel Pack Bot:		Sec Quarters:	
Gravel Packed:		Legal Quarters:	
Top Perf:	93	Quarters Seq:	
Bottom Perf:	118	Latitude:	39.58583068847656

Wells and Additional Sources Detail Report

Perf Intervals:	1	Longitude:	119.77861785888672
Casing Diameter:	6.0	Lat Long Src:	NV003
Casing Reductions:	0	Lat Long Acc:	M
Update User ID:		Utm X:	261367.897727556
Date Entry:	05/12/2004	Utm Y:	4385270.0584431
Date Update:		Remarks Add:	
Date Cmpl Acc:	D		
Owner Address:	2ND ST SUN VALLEY		
Contractor Addr:	190 MOANA LANE RENO NV		
Remarks:			

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
23	ESE	0.57	3,011.32	4,677.89	WATER WELLS

Well Log:	3908	Notice of Intent:	0
Waiver No:		Yield:	
Sequence No:	82212	Drawdown:	
Date Log Rcvd Acc:	D	Hours Pumped:	
Date Log Rcvd:	10/16/1957	Static Wl:	80.0
Well Start Date:	09/15/1957	Temperature:	
Well Finish Date:	10/13/1957	Ref:	MD
Edit Status:	F	App:	
Site Type Code:	N	Source Agency:	NV003
Site Type Desc:	New	Owner No:	
Work Type Code:	N	Owner Current:	CRAWFORD, RAY
Work Type Desc:	New	Driller Lic No:	180
Work Type Rmks:		Contractor Lic No:	180
Prop Use Code:	H	Contractor Drlr No:	
Prop Use Desc:	Domestic	Contractor Name:	J W CUNNINGHAM
Drilling Mthd Code:	C	User ID:	SCOX
Drilling Mthd Desc:	Cable tool	Parcel No:	
Test Method Code:		Lot No:	
Test Mthd Desc:		Block No:	
Aquifer Desc:		Subdivision Name:	
Depth Seal:		SC:	32031
Depth Drilled:	155	HA:	086
Depth Bedrock:		Twn:	N20
Depth Cased:	155	Legal Twn:	20N
Qual Const Data:	G	Rng:	E20
Qual Lith Data:	G	Legal Rng:	20E
Gravel Pack Top:		Sec:	19
Gravel Pack Bot:		Sec Quarters:	
Gravel Packed:		Legal Quarters:	
Top Perf:	70	Quarters Seq:	
Bottom Perf:	155	Latitude:	39.58583068847656
Perf Intervals:	1	Longitude:	119.77861785888672

Wells and Additional Sources Detail Report

Casing Diameter:	8.0	Lat Long Src:	NV003
Casing Reductions:	0	Lat Long Acc:	M
Update User ID:		Utm X:	261367.897727556
Date Entry:	05/12/2004	Utm Y:	4385270.0584431
Date Update:		Remarks Add:	
Date Cmpl Acc:	D		
Owner Address:	304 E 9TH AVE SUN VALLEY		
Contractor Addr:	GEIGER GRADE RD		
Remarks:			

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
23	ESE	0.57	3,011.32	4,677.89	WATER WELLS

Well Log:	2838	Notice of Intent:	0
Waiver No:		Yield:	
Sequence No:	82226	Drawdown:	
Date Log Rcvd Acc:	D	Hours Pumped:	
Date Log Rcvd:	02/01/1955	Static Wl:	23.0
Well Start Date:	01/08/1955	Temperature:	40.0
Well Finish Date:	01/12/1955	Ref:	MD
Edit Status:	F	App:	
Site Type Code:	N	Source Agency:	NV003
Site Type Desc:	New	Owner No:	
Work Type Code:	N	Owner Current:	CLAESSEN, JOHN
Work Type Desc:	New	Driller Lic No:	180
Work Type Rmks:		Contractor Lic No:	180
Prop Use Code:	H	Contractor Drlr No:	
Prop Use Desc:	Domestic	Contractor Name:	RUSS BRADEN
Drilling Mthd Code:	C	User ID:	SCOX
Drilling Mthd Desc:	Cable tool	Parcel No:	
Test Method Code:		Lot No:	
Test Mthd Desc:		Block No:	
Aquifer Desc:		Subdivision Name:	
Depth Seal:		SC:	32031
Depth Drilled:	75	HA:	086
Depth Bedrock:		Twn:	N20
Depth Cased:	75	Legal Twn:	20N
Qual Const Data:	G	Rng:	E20
Qual Lith Data:	G	Legal Rng:	20E
Gravel Pack Top:		Sec:	19
Gravel Pack Bot:		Sec Quarters:	
Gravel Packed:		Legal Quarters:	
Top Perf:	22	Quarters Seq:	
Bottom Perf:	75	Latitude:	39.58583068847656
Perf Intervals:	1	Longitude:	119.77861785888672
Casing Diameter:	5.5	Lat Long Src:	NV003

Wells and Additional Sources Detail Report

Casing Reductions:	0	Lat Long Acc:	M
Update User ID:	SCOX	Utm X:	261367.897727556
Date Entry:	05/12/2004	Utm Y:	4385270.0584431
Date Update:	06/02/2004	Remarks Add:	.
Date Cmpl Acc:	D		
Owner Address:	SUN VALLEY		
Contractor Addr:	RT 1 BOX 445A		
Remarks:			

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
23	ESE	0.57	3,011.32	4,677.89	WATER WELLS

Well Log:	1263	Notice of Intent:	0
Waiver No:		Yield:	15.0
Sequence No:	82241	Drawdown:	
Date Log Rcvd Acc:	D	Hours Pumped:	
Date Log Rcvd:	04/07/1950	Static Wl:	30.0
Well Start Date:	03/24/1950	Temperature:	
Well Finish Date:	03/27/1950	Ref:	MD
Edit Status:	F	App:	
Site Type Code:	N	Source Agency:	NV003
Site Type Desc:	New	Owner No:	
Work Type Code:	N	Owner Current:	RUMBAUGH, ARCHIE L
Work Type Desc:	New	Driller Lic No:	75
Work Type Rmks:		Contractor Lic No:	75
Prop Use Code:	H	Contractor Drlr No:	
Prop Use Desc:	Domestic	Contractor Name:	C C MOON
Drilling Mthd Code:	C	User ID:	SCOX
Drilling Mthd Desc:	Cable tool	Parcel No:	
Test Method Code:	B	Lot No:	2
Test Mthd Desc:	Bucket	Block No:	D
Aquifer Desc:		Subdivision Name:	
Depth Seal:		SC:	32031
Depth Drilled:	100	HA:	086
Depth Bedrock:		Twn:	N20
Depth Cased:	97	Legal Twn:	20N
Qual Const Data:	G	Rng:	E20
Qual Lith Data:	G	Legal Rng:	20E
Gravel Pack Top:		Sec:	19
Gravel Pack Bot:		Sec Quarters:	
Gravel Packed:		Legal Quarters:	
Top Perf:	75	Quarters Seq:	
Bottom Perf:	97	Latitude:	39.58583068847656
Perf Intervals:	1	Longitude:	119.77861785888672
Casing Diameter:	6.0	Lat Long Src:	NV003
Casing Reductions:	0	Lat Long Acc:	M

Wells and Additional Sources Detail Report

Update User ID:		Utm X:	261367.897727556
Date Entry:	05/12/2004	Utm Y:	4385270.0584431
Date Update:		Remarks Add:	
Date Cmpl Acc:	D		
Owner Address:	COROL DR & SECOND ST		
Contractor Addr:	665 WEST ST		
Remarks:			

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
23	ESE	0.57	3,011.32	4,677.89	WATER WELLS

Well Log:	3217	Notice of Intent:	0
Waiver No:		Yield:	15.0
Sequence No:	82216	Drawdown:	
Date Log Rcvd Acc:	D	Hours Pumped:	
Date Log Rcvd:	11/02/1955	Static WI:	30.0
Well Start Date:	10/07/1955	Temperature:	60.0
Well Finish Date:	10/07/1955	Ref:	MD
Edit Status:	F	App:	
Site Type Code:	N	Source Agency:	NV003
Site Type Desc:	New	Owner No:	
Work Type Code:	N	Owner Current:	WHITTWAY, AUGUST
Work Type Desc:	New	Driller Lic No:	208
Work Type Rmks:		Contractor Lic No:	208
Prop Use Code:	H	Contractor Drlr No:	
Prop Use Desc:	Domestic	Contractor Name:	LEE SMITH
Drilling Mthd Code:	C	User ID:	SCOX
Drilling Mthd Desc:	Cable tool	Parcel No:	
Test Method Code:	B	Lot No:	4
Test Mthd Desc:	Bucket	Block No:	B
Aquifer Desc:		Subdivision Name:	SUN VALLEY
Depth Seal:		SC:	32031
Depth Drilled:	93	HA:	086
Depth Bedrock:		Twn:	N20
Depth Cased:	85	Legal Twn:	20N
Qual Const Data:	G	Rng:	E20
Qual Lith Data:	G	Legal Rng:	20E
Gravel Pack Top:		Sec:	19
Gravel Pack Bot:		Sec Quarters:	
Gravel Packed:		Legal Quarters:	
Top Perf:	72	Quarters Seq:	
Bottom Perf:	85	Latitude:	39.58583068847656
Perf Intervals:	1	Longitude:	119.77861785888672
Casing Diameter:	8.125	Lat Long Src:	NV003
Casing Reductions:	0	Lat Long Acc:	M
Update User ID:		Utm X:	261367.897727556

Wells and Additional Sources Detail Report

Date Entry: 05/12/2004 Utm Y: 4385270.0584431
 Date Update: Remarks Add:
 Date Cmpl Acc: D
 Owner Address: 29 1/2 ST LAURENCE AVE RENO
 Contractor Addr: 195 E 6TH AVE SUN VALLEY
 Remarks:

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
23	ESE	0.57	3,011.32	4,677.89	WATER WELLS

Well Log: 8544	Notice of Intent: 0
Waiver No:	Yield:
Sequence No: 82172	Drawdown:
Date Log Rcvd Acc: D	Hours Pumped:
Date Log Rcvd: 06/18/1965	Static Wl: 55.0
Well Start Date: 10/07/1964	Temperature:
Well Finish Date: 10/16/1964	Ref: MD
Edit Status: F	App:
Site Type Code: N	Source Agency: NV003
Site Type Desc: New	Owner No:
Work Type Code: N	Owner Current: OTTING, A C
Work Type Desc: New	Driller Lic No: 7373
Work Type Rmks:	Contractor Lic No:
Prop Use Code: H	Contractor Drlr No:
Prop Use Desc: Domestic	Contractor Name: THAIROL SESSIONS
Drilling Mthd Code: C	User ID: SCOX
Drilling Mthd Desc: Cable tool	Parcel No:
Test Method Code:	Lot No:
Test Mthd Desc:	Block No:
Aquifer Desc:	Subdivision Name:
Depth Seal:	SC: 32031
Depth Drilled: 110	HA: 086
Depth Bedrock:	Twn: N20
Depth Cased: 110	Legal Twn: 20N
Qual Const Data: G	Rng: E20
Qual Lith Data: G	Legal Rng: 20E
Gravel Pack Top:	Sec: 19
Gravel Pack Bot:	Sec Quarters:
Gravel Packed:	Legal Quarters:
Top Perf: 90	Quarters Seq:
Bottom Perf: 110	Latitude: 39.58583068847656
Perf Intervals: 1	Longitude: 119.77861785888672
Casing Diameter: 6.0	Lat Long Src: NV003
Casing Reductions: 0	Lat Long Acc: M
Update User ID:	Utm X: 261367.897727556
Date Entry: 05/12/2004	Utm Y: 4385270.0584431

Wells and Additional Sources Detail Report

Date Update: Remarks Add:
 Date Cmpl Acc: D
 Owner Address:
 Contractor Addr: 148 E 6TH SUN VALLEY
 Remarks:

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
23	ESE	0.57	3,011.32	4,677.89	WATER WELLS

Well Log: 9571	Notice of Intent: 0
Waiver No:	Yield: 30.0
Sequence No: 82169	Drawdown:
Date Log Rcvd Acc: D	Hours Pumped:
Date Log Rcvd: 07/02/1967	Static Wl: 30.0
Well Start Date: 06/27/1967	Temperature:
Well Finish Date: 06/28/1967	Ref: MD
Edit Status: F	App:
Site Type Code: N	Source Agency: NV003
Site Type Desc: New	Owner No:
Work Type Code: N	Owner Current: RASH, AMOS
Work Type Desc: New	Driller Lic No: 301
Work Type Rmks:	Contractor Lic No: 301
Prop Use Code: H	Contractor Drlr No:
Prop Use Desc: Domestic	Contractor Name: W E BLAIN
Drilling Mthd Code: C	User ID: SCOX
Drilling Mthd Desc: Cable tool	Parcel No:
Test Method Code: B	Lot No:
Test Mthd Desc: Bucket	Block No:
Aquifer Desc:	Subdivision Name:
Depth Seal: 50	SC: 32031
Depth Drilled: 63	HA: 086
Depth Bedrock:	Twn: N20
Depth Cased: 64	Legal Twn: 20N
Qual Const Data: G	Rng: E20
Qual Lith Data: G	Legal Rng: 20E
Gravel Pack Top:	Sec: 19
Gravel Pack Bot:	Sec Quarters:
Gravel Packed:	Legal Quarters:
Top Perf: 52	Quarters Seq:
Bottom Perf: 64	Latitude: 39.58583068847656
Perf Intervals: 1	Longitude: 119.77861785888672
Casing Diameter: 6.0	Lat Long Src: NV003
Casing Reductions: 0	Lat Long Acc: M
Update User ID: CLHUNT	Utm X: 261367.897727556
Date Entry: 05/12/2004	Utm Y: 4385270.0584431
Date Update: 05/21/2004	Remarks Add:

Wells and Additional Sources Detail Report

Date Cmpl Acc: D
 Owner Address:
 Contractor Addr: BOX 255 CARSON CITY
 Remarks:

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
23	ESE	0.57	3,011.32	4,677.89	WATER WELLS

Well Log: 1217	Notice of Intent: 0
Waiver No:	Yield: 25.0
Sequence No: 82242	Drawdown:
Date Log Rcvd Acc: D	Hours Pumped:
Date Log Rcvd: 03/06/1950	Static Wl: 19.0
Well Start Date: 02/21/1950	Temperature:
Well Finish Date: 02/21/1950	Ref: MD
Edit Status: F	App:
Site Type Code: N	Source Agency: NV003
Site Type Desc: New	Owner No:
Work Type Code: N	Owner Current: LAFFOON,ERNEST OR LUCILLE
Work Type Desc: New	Driller Lic No: 75
Work Type Rmks:	Contractor Lic No: 75
Prop Use Code: H	Contractor Drlr No:
Prop Use Desc: Domestic	Contractor Name: C C MOON
Drilling Mthd Code: C	User ID: SCOX
Drilling Mthd Desc: Cable tool	Parcel No:
Test Method Code: U	Lot No: 1
Test Mthd Desc: Unknown	Block No: 2
Aquifer Desc:	Subdivision Name:
Depth Seal:	SC: 32031
Depth Drilled: 70	HA: 086
Depth Bedrock:	Twn: N20
Depth Cased: 64	Legal Twn: 20N
Qual Const Data: G	Rng: E20
Qual Lith Data: G	Legal Rng: 20E
Gravel Pack Top:	Sec: 19
Gravel Pack Bot:	Sec Quarters:
Gravel Packed:	Legal Quarters:
Top Perf: 34	Quarters Seq:
Bottom Perf: 64	Latitude: 39.58583068847656
Perf Intervals: 1	Longitude: 119.77861785888672
Casing Diameter:	Lat Long Src: NV003
Casing Reductions: 0	Lat Long Acc: M
Update User ID: SCOX	Utm X: 261367.897727556
Date Entry: 05/12/2004	Utm Y: 4385270.0584431
Date Update: 06/02/2004	Remarks Add:
Date Cmpl Acc: D	

Wells and Additional Sources Detail Report

Owner Address: SUN VALLEY
 Contractor Addr: 665 WEST ST
 Remarks:

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
23	ESE	0.57	3,011.32	4,677.89	WATER WELLS

Well Log:	15011	Notice of Intent:	0
Waiver No:		Yield:	
Sequence No:	82168	Drawdown:	
Date Log Rcvd Acc:		Hours Pumped:	
Date Log Rcvd:		Static Wl:	
Well Start Date:	08/16/1955	Temperature:	
Well Finish Date:	08/16/1955	Ref:	MD
Edit Status:	F	App:	
Site Type Code:	N	Source Agency:	NV003
Site Type Desc:	New	Owner No:	
Work Type Code:	N	Owner Current:	QUINONES, FRANK
Work Type Desc:	New	Driller Lic No:	3
Work Type Rmks:		Contractor Lic No:	3
Prop Use Code:	H	Contractor Drlr No:	
Prop Use Desc:	Domestic	Contractor Name:	MEL MEYER COMPANY
Drilling Mthd Code:	C	User ID:	SCOX
Drilling Mthd Desc:	Cable tool	Parcel No:	
Test Method Code:		Lot No:	
Test Mthd Desc:		Block No:	
Aquifer Desc:		Subdivision Name:	
Depth Seal:		SC:	32031
Depth Drilled:	50	HA:	086
Depth Bedrock:		Twn:	N20
Depth Cased:	52	Legal Twn:	20N
Qual Const Data:	G	Rng:	E20
Qual Lith Data:	G	Legal Rng:	20E
Gravel Pack Top:		Sec:	19
Gravel Pack Bot:		Sec Quarters:	
Gravel Packed:		Legal Quarters:	
Top Perf:		Quarters Seq:	
Bottom Perf:		Latitude:	39.58583068847656
Perf Intervals:	1	Longitude:	119.77861785888672
Casing Diameter:	6.0	Lat Long Src:	NV003
Casing Reductions:	0	Lat Long Acc:	M
Update User ID:	SCOX	Utm X:	261367.897727556
Date Entry:	05/12/2004	Utm Y:	4385270.0584431
Date Update:	05/26/2004	Remarks Add:	
Date Cmpl Acc:	D		
Owner Address:	FIRST AVE SUN VALLEY DRIVE		

Wells and Additional Sources Detail Report

Contractor Addr: 190 MOANA LANE RENO
 Remarks:

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
23	ESE	0.57	3,011.32	4,677.89	WATER WELLS

Well Log:	8547	Notice of Intent:	0
Waiver No:		Yield:	
Sequence No:	82170	Drawdown:	
Date Log Rcvd Acc:	D	Hours Pumped:	
Date Log Rcvd:	06/18/1965	Static Wl:	40.0
Well Start Date:	07/08/1964	Temperature:	
Well Finish Date:	07/16/1964	Ref:	MD
Edit Status:	F	App:	
Site Type Code:	N	Source Agency:	NV003
Site Type Desc:	New	Owner No:	
Work Type Code:	N	Owner Current:	KINCHEN, SALASSIE
Work Type Desc:	New	Driller Lic No:	7373
Work Type Rmks:		Contractor Lic No:	
Prop Use Code:	H	Contractor Drlr No:	
Prop Use Desc:	Domestic	Contractor Name:	THAIROL SESSIONS
Drilling Mthd Code:	C	User ID:	SCOX
Drilling Mthd Desc:	Cable tool	Parcel No:	
Test Method Code:		Lot No:	
Test Mthd Desc:		Block No:	
Aquifer Desc:		Subdivision Name:	
Depth Seal:		SC:	32031
Depth Drilled:	62	HA:	086
Depth Bedrock:		Twn:	N20
Depth Cased:	62	Legal Twn:	20N
Qual Const Data:	G	Rng:	E20
Qual Lith Data:	G	Legal Rng:	20E
Gravel Pack Top:		Sec:	19
Gravel Pack Bot:		Sec Quarters:	
Gravel Packed:		Legal Quarters:	
Top Perf:	52	Quarters Seq:	
Bottom Perf:	62	Latitude:	39.58583068847656
Perf Intervals:	1	Longitude:	119.77861785888672
Casing Diameter:	6.0	Lat Long Src:	NV003
Casing Reductions:	0	Lat Long Acc:	M
Update User ID:		Utm X:	261367.897727556
Date Entry:	05/12/2004	Utm Y:	4385270.0584431
Date Update:		Remarks Add:	
Date Cmpl Acc:	D		
Owner Address:	87 1ST AVE SUN VALLEY		
Contractor Addr:	148 E 6TH SUN VALLEY		

Wells and Additional Sources Detail Report

Remarks:

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
23	ESE	0.57	3,011.32	4,677.89	WATER WELLS

Well Log:	2821	Notice of Intent:	0
Waiver No:		Yield:	
Sequence No:	82230	Drawdown:	
Date Log Rcvd Acc:	D	Hours Pumped:	
Date Log Rcvd:	01/17/1955	Static Wl:	60.0
Well Start Date:	12/23/1954	Temperature:	40.0
Well Finish Date:	12/27/1954	Ref:	MD
Edit Status:	F	App:	
Site Type Code:	N	Source Agency:	NV003
Site Type Desc:	New	Owner No:	
Work Type Code:	N	Owner Current:	HERZ, H & R AND BRADEN, RUSS
Work Type Desc:	New	Driller Lic No:	180
Work Type Rmks:		Contractor Lic No:	180
Prop Use Code:	H	Contractor Drlr No:	
Prop Use Desc:	Domestic	Contractor Name:	RUSS BRADEN
Drilling Mthd Code:	C	User ID:	SCOX
Drilling Mthd Desc:	Cable tool	Parcel No:	
Test Method Code:		Lot No:	
Test Mthd Desc:		Block No:	
Aquifer Desc:		Subdivision Name:	
Depth Seal:		SC:	32031
Depth Drilled:	85	HA:	086
Depth Bedrock:		Twn:	N20
Depth Cased:	85	Legal Twn:	20N
Qual Const Data:	G	Rng:	E20
Qual Lith Data:	G	Legal Rng:	20E
Gravel Pack Top:		Sec:	19
Gravel Pack Bot:		Sec Quarters:	
Gravel Packed:		Legal Quarters:	
Top Perf:	60	Quarters Seq:	
Bottom Perf:	85	Latitude:	39.58583068847656
Perf Intervals:	1	Longitude:	119.77861785888672
Casing Diameter:	6.0	Lat Long Src:	NV003
Casing Reductions:	0	Lat Long Acc:	M
Update User ID:		Utm X:	261367.897727556
Date Entry:	05/12/2004	Utm Y:	4385270.0584431
Date Update:		Remarks Add:	
Date Cmpl Acc:	D		
Owner Address:	SUN VALLEY		
Contractor Addr:	RENO		
Remarks:			

Wells and Additional Sources Detail Report

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
23	ESE	0.57	3,011.32	4,677.89	WATER WELLS

Well Log:	3196	Notice of Intent:	0
Waiver No:		Yield:	
Sequence No:	82217	Drawdown:	
Date Log Rcvd Acc:	D	Hours Pumped:	
Date Log Rcvd:	10/05/1955	Static Wl:	186.0
Well Start Date:	08/10/1955	Temperature:	
Well Finish Date:	08/29/1955	Ref:	MD
Edit Status:	F	App:	
Site Type Code:	N	Source Agency:	NV003
Site Type Desc:	New	Owner No:	
Work Type Code:	N	Owner Current:	MILUM, W R
Work Type Desc:	New	Driller Lic No:	180
Work Type Rmks:		Contractor Lic No:	180
Prop Use Code:	H	Contractor Drlr No:	
Prop Use Desc:	Domestic	Contractor Name:	J W CUNNINGHAM
Drilling Mthd Code:	C	User ID:	SCOX
Drilling Mthd Desc:	Cable tool	Parcel No:	
Test Method Code:		Lot No:	
Test Mthd Desc:		Block No:	
Aquifer Desc:		Subdivision Name:	
Depth Seal:		SC:	32031
Depth Drilled:	226	HA:	086
Depth Bedrock:		Twn:	N20
Depth Cased:	226	Legal Twn:	20N
Qual Const Data:	G	Rng:	E20
Qual Lith Data:	G	Legal Rng:	20E
Gravel Pack Top:		Sec:	19
Gravel Pack Bot:		Sec Quarters:	
Gravel Packed:		Legal Quarters:	
Top Perf:	192	Quarters Seq:	
Bottom Perf:	226	Latitude:	39.58583068847656
Perf Intervals:	1	Longitude:	119.77861785888672
Casing Diameter:	6.0	Lat Long Src:	NV003
Casing Reductions:	0	Lat Long Acc:	M
Update User ID:		Utm X:	261367.897727556
Date Entry:	05/12/2004	Utm Y:	4385270.0584431
Date Update:		Remarks Add:	
Date Cmpl Acc:	D		
Owner Address:	SUN VALLEY		
Contractor Addr:	RENO		
Remarks:			

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
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Wells and Additional Sources Detail Report

23 ESE 0.57 3,011.32 4,677.89 WATER WELLS

Well Log: 1216 Waiver No: Sequence No: 82243 Date Log Rcvd Acc: D Date Log Rcvd: 03/06/1950 Well Start Date: 02/15/1950 Well Finish Date: 02/20/1950 Edit Status: F Site Type Code: N Site Type Desc: New Work Type Code: N Work Type Desc: New Work Type Rmks: Prop Use Code: H Prop Use Desc: Domestic Drilling Mthd Code: C Drilling Mthd Desc: Cable tool Test Method Code: B Test Mthd Desc: Bucket Aquifer Desc: Depth Seal: Depth Drilled: 82 Depth Bedrock: Depth Cased: 72 Qual Const Data: G Qual Lith Data: G Gravel Pack Top: Gravel Pack Bot: Gravel Packed: Top Perf: 65 Bottom Perf: 72 Perf Intervals: 1 Casing Diameter: 6.0 Casing Reductions: 0 Update User ID: SCOX Date Entry: 05/12/2004 Date Update: 06/02/2004 Date Cmpl Acc: D Owner Address: Contractor Addr: 665 WEST ST Remarks:	Notice of Intent: 0 Yield: 2.0 Drawdown: Hours Pumped: Static Wl: 30.0 Temperature: Ref: MD App: Source Agency: NV003 Owner No: Owner Current: VAN, LEONARD & WILDIA Driller Lic No: 75 Contractor Lic No: 75 Contractor Drlr No: Contractor Name: C C MOON User ID: SCOX Parcel No: Lot No: Block No: Subdivision Name: SC: 32031 HA: 086 Twn: N20 Legal Twn: 20N Rng: E20 Legal Rng: 20E Sec: 19 Sec Quarters: Legal Quarters: Quarters Seq: Latitude: 39.58583068847656 Longitude: 119.77861785888672 Lat Long Src: NV003 Lat Long Acc: M Utm X: 261367.897727556 Utm Y: 4385270.0584431 Remarks Add:
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Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
23	ESE	0.57	3,011.32	4,677.89	WATER WELLS

Wells and Additional Sources Detail Report

Well Log:	8546	Notice of Intent:	0
Waiver No:		Yield:	
Sequence No:	82171	Drawdown:	
Date Log Rcvd Acc:	D	Hours Pumped:	
Date Log Rcvd:	06/18/1965	Static Wl:	41.0
Well Start Date:	09/27/1964	Temperature:	
Well Finish Date:	10/05/1964	Ref:	MD
Edit Status:	F	App:	
Site Type Code:	N	Source Agency:	NV003
Site Type Desc:	New	Owner No:	
Work Type Code:	N	Owner Current:	BROOKS, BILL
Work Type Desc:	New	Driller Lic No:	7373
Work Type Rmks:		Contractor Lic No:	
Prop Use Code:	H	Contractor Drlr No:	
Prop Use Desc:	Domestic	Contractor Name:	THAIROL SESSIONS
Drilling Mthd Code:	C	User ID:	SCOX
Drilling Mthd Desc:	Cable tool	Parcel No:	
Test Method Code:		Lot No:	
Test Mthd Desc:		Block No:	
Aquifer Desc:		Subdivision Name:	
Depth Seal:		SC:	32031
Depth Drilled:	71	HA:	086
Depth Bedrock:		Twn:	N20
Depth Cased:	71	Legal Twn:	20N
Qual Const Data:	G	Rng:	E20
Qual Lith Data:	G	Legal Rng:	20E
Gravel Pack Top:		Sec:	19
Gravel Pack Bot:		Sec Quarters:	
Gravel Packed:		Legal Quarters:	
Top Perf:	60	Quarters Seq:	
Bottom Perf:	71	Latitude:	39.58583068847656
Perf Intervals:	1	Longitude:	119.77861785888672
Casing Diameter:	6.0	Lat Long Src:	NV003
Casing Reductions:	0	Lat Long Acc:	M
Update User ID:		Utm X:	261367.897727556
Date Entry:	05/12/2004	Utm Y:	4385270.0584431
Date Update:		Remarks Add:	
Date Cmpl Acc:	D		
Owner Address:	308 CAROL DRIVE SUN VALLEY		
Contractor Addr:	148 E 6TH SUN VALLEY		
Remarks:			

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
23	ESE	0.57	3,011.32	4,677.89	WATER WELLS

Wells and Additional Sources Detail Report

Well Log: 2823	Notice of Intent: 0
Waiver No:	Yield:
Sequence No: 82228	Drawdown:
Date Log Rcvd Acc: D	Hours Pumped:
Date Log Rcvd: 01/17/1955	Static Wl: 60.0
Well Start Date: 12/12/1954	Temperature: 40.0
Well Finish Date: 12/15/1954	Ref: MD
Edit Status: F	App:
Site Type Code: N	Source Agency: NV003
Site Type Desc: New	Owner No:
Work Type Code: N	Owner Current: WALL, BERT
Work Type Desc: New	Driller Lic No: 180
Work Type Rmks:	Contractor Lic No: 180
Prop Use Code: H	Contractor Drlr No:
Prop Use Desc: Domestic	Contractor Name: RUSS BRADEN
Drilling Mthd Code: C	User ID: SCOX
Drilling Mthd Desc: Cable tool	Parcel No:
Test Method Code:	Lot No:
Test Mthd Desc:	Block No:
Aquifer Desc:	Subdivision Name:
Depth Seal:	SC: 32031
Depth Drilled: 80	HA: 086
Depth Bedrock:	Twn: N20
Depth Cased: 80	Legal Twn: 20N
Qual Const Data: G	Rng: E20
Qual Lith Data: G	Legal Rng: 20E
Gravel Pack Top:	Sec: 19
Gravel Pack Bot:	Sec Quarters:
Gravel Packed:	Legal Quarters:
Top Perf: 55	Quarters Seq:
Bottom Perf: 80	Latitude: 39.58583068847656
Perf Intervals: 1	Longitude: 119.77861785888672
Casing Diameter: 6.0	Lat Long Src: NV003
Casing Reductions: 0	Lat Long Acc: M
Update User ID:	Utm X: 261367.897727556
Date Entry: 05/12/2004	Utm Y: 4385270.0584431
Date Update:	Remarks Add:
Date Cmpl Acc: D	
Owner Address: SUN VALLEY	
Contractor Addr: RENO	
Remarks:	

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
23	ESE	0.57	3,011.32	4,677.89	WATER WELLS

Well Log: 3270	Notice of Intent: 0
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Wells and Additional Sources Detail Report

Waiver No:		Yield:	
Sequence No:	82215	Drawdown:	
Date Log Rcvd Acc:	D	Hours Pumped:	
Date Log Rcvd:	12/19/1955	Static Wl:	
Well Start Date:	08/16/1955	Temperature:	
Well Finish Date:	08/16/1955	Ref:	MD
Edit Status:	F	App:	
Site Type Code:	N	Source Agency:	NV003
Site Type Desc:	New	Owner No:	
Work Type Code:	N	Owner Current:	QUINONES, FRANK
Work Type Desc:	New	Driller Lic No:	3
Work Type Rmks:		Contractor Lic No:	3
Prop Use Code:	H	Contractor Drlr No:	
Prop Use Desc:	Domestic	Contractor Name:	MEL MEYER COMPANY
Drilling Mthd Code:	C	User ID:	SCOX
Drilling Mthd Desc:	Cable tool	Parcel No:	
Test Method Code:		Lot No:	
Test Mthd Desc:		Block No:	
Aquifer Desc:		Subdivision Name:	
Depth Seal:		SC:	32031
Depth Drilled:	50	HA:	086
Depth Bedrock:		Twn:	N20
Depth Cased:	52	Legal Twn:	20N
Qual Const Data:	G	Rng:	E20
Qual Lith Data:	G	Legal Rng:	20E
Gravel Pack Top:		Sec:	19
Gravel Pack Bot:		Sec Quarters:	
Gravel Packed:		Legal Quarters:	
Top Perf:		Quarters Seq:	
Bottom Perf:		Latitude:	39.58583068847656
Perf Intervals:	1	Longitude:	119.77861785888672
Casing Diameter:	6.0	Lat Long Src:	NV003
Casing Reductions:	0	Lat Long Acc:	M
Update User ID:	SCOX	Utm X:	261367.897727556
Date Entry:	05/12/2004	Utm Y:	4385270.0584431
Date Update:	06/02/2004	Remarks Add:	
Date Cmpl Acc:	D		
Owner Address:	FIRST AVE SUN VALLEY DR		
Contractor Addr:	190 MOANA LANE RENO		
Remarks:			

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
23	ESE	0.57	3,011.32	4,677.89	WATER WELLS

Well Log:	3367	Notice of Intent:	0
Waiver No:		Yield:	

Wells and Additional Sources Detail Report

Sequence No:	82214	Drawdown:	
Date Log Rcvd Acc:	D	Hours Pumped:	
Date Log Rcvd:	04/09/1956	Static Wl:	50.0
Well Start Date:	03/28/1956	Temperature:	
Well Finish Date:	04/02/1956	Ref:	MD
Edit Status:	F	App:	
Site Type Code:	N	Source Agency:	NV003
Site Type Desc:	New	Owner No:	
Work Type Code:	N	Owner Current:	SMITH, RUSSEL R
Work Type Desc:	New	Driller Lic No:	180
Work Type Rmks:		Contractor Lic No:	180
Prop Use Code:	H	Contractor Drlr No:	
Prop Use Desc:	Domestic	Contractor Name:	J W CUNNINGHAM
Drilling Mthd Code:	C	User ID:	SCOX
Drilling Mthd Desc:	Cable tool	Parcel No:	
Test Method Code:		Lot No:	
Test Mthd Desc:		Block No:	
Aquifer Desc:		Subdivision Name:	
Depth Seal:		SC:	32031
Depth Drilled:	100	HA:	086
Depth Bedrock:		Twn:	N20
Depth Cased:	100	Legal Twn:	20N
Qual Const Data:	G	Rng:	E20
Qual Lith Data:	G	Legal Rng:	20E
Gravel Pack Top:		Sec:	19
Gravel Pack Bot:		Sec Quarters:	
Gravel Packed:		Legal Quarters:	
Top Perf:	55	Quarters Seq:	
Bottom Perf:	100	Latitude:	39.58583068847656
Perf Intervals:	1	Longitude:	119.77861785888672
Casing Diameter:	6.0	Lat Long Src:	NV003
Casing Reductions:	0	Lat Long Acc:	M
Update User ID:		Utm X:	261367.897727556
Date Entry:	05/12/2004	Utm Y:	4385270.0584431
Date Update:		Remarks Add:	
Date Cmpl Acc:	D		
Owner Address:			
Contractor Addr:	MOANA LANE		
Remarks:			

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
23	ESE	0.57	3,011.32	4,677.89	WATER WELLS

Well Log:	2824	Notice of Intent:	0
Waiver No:		Yield:	
Sequence No:	82227	Drawdown:	

Wells and Additional Sources Detail Report

Date Log Rcvd Acc:	D	Hours Pumped:	
Date Log Rcvd:	01/17/1955	Static Wl:	20.0
Well Start Date:	12/30/1954	Temperature:	40.0
Well Finish Date:	01/05/1955	Ref:	MD
Edit Status:	F	App:	
Site Type Code:	N	Source Agency:	NV003
Site Type Desc:	New	Owner No:	
Work Type Code:	N	Owner Current:	BROOKS, WILLIAM
Work Type Desc:	New	Driller Lic No:	180
Work Type Rmks:		Contractor Lic No:	180
Prop Use Code:	H	Contractor Drlr No:	
Prop Use Desc:	Domestic	Contractor Name:	RUSS BRADEN
Drilling Mthd Code:	C	User ID:	SCOX
Drilling Mthd Desc:	Cable tool	Parcel No:	
Test Method Code:		Lot No:	
Test Mthd Desc:		Block No:	
Aquifer Desc:		Subdivision Name:	
Depth Seal:		SC:	32031
Depth Drilled:	55	HA:	086
Depth Bedrock:		Twn:	N20
Depth Cased:	55	Legal Twn:	20N
Qual Const Data:	G	Rng:	E20
Qual Lith Data:	G	Legal Rng:	20E
Gravel Pack Top:		Sec:	19
Gravel Pack Bot:		Sec Quarters:	
Gravel Packed:		Legal Quarters:	
Top Perf:	40	Quarters Seq:	
Bottom Perf:	55	Latitude:	39.58583068847656
Perf Intervals:	1	Longitude:	119.77861785888672
Casing Diameter:	6.0	Lat Long Src:	NV003
Casing Reductions:	0	Lat Long Acc:	M
Update User ID:		Utm X:	261367.897727556
Date Entry:	05/12/2004	Utm Y:	4385270.0584431
Date Update:		Remarks Add:	
Date Cmpl Acc:	D		
Owner Address:	7TH AVE SUN VALLEY		
Contractor Addr:	RENO		
Remarks:			

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
23	ESE	0.57	3,011.32	4,677.89	WATER WELLS

Well Log:	2842	Notice of Intent:	0
Waiver No:		Yield:	
Sequence No:	82225	Drawdown:	
Date Log Rcvd Acc:	D	Hours Pumped:	

Wells and Additional Sources Detail Report

Date Log Rcvd:	03/01/1955	Static WI:	35.0
Well Start Date:	02/14/1955	Temperature:	40.0
Well Finish Date:	02/19/1955	Ref:	MD
Edit Status:	F	App:	
Site Type Code:	N	Source Agency:	NV003
Site Type Desc:	New	Owner No:	
Work Type Code:	N	Owner Current:	GROSS, LEWIS
Work Type Desc:	New	Driller Lic No:	180
Work Type Rmks:		Contractor Lic No:	180
Prop Use Code:	H	Contractor Drlr No:	
Prop Use Desc:	Domestic	Contractor Name:	RUSS BRADEN
Drilling Mthd Code:	C	User ID:	SCOX
Drilling Mthd Desc:	Cable tool	Parcel No:	
Test Method Code:		Lot No:	
Test Mthd Desc:		Block No:	
Aquifer Desc:		Subdivision Name:	
Depth Seal:		SC:	32031
Depth Drilled:	45	HA:	086
Depth Bedrock:		Twn:	N20
Depth Cased:	45	Legal Twn:	20N
Qual Const Data:	G	Rng:	E20
Qual Lith Data:	G	Legal Rng:	20E
Gravel Pack Top:		Sec:	19
Gravel Pack Bot:		Sec Quarters:	
Gravel Packed:		Legal Quarters:	
Top Perf:	35	Quarters Seq:	
Bottom Perf:	45	Latitude:	39.58583068847656
Perf Intervals:	1	Longitude:	119.77861785888672
Casing Diameter:	5.875	Lat Long Src:	NV003
Casing Reductions:	0	Lat Long Acc:	M
Update User ID:	SCOX	Utm X:	261367.897727556
Date Entry:	05/12/2004	Utm Y:	4385270.0584431
Date Update:	06/02/2004	Remarks Add:	
Date Cmpl Acc:	D		
Owner Address:	SUN VALLEY		
Contractor Addr:	RT 1 BOX 445A		
Remarks:			

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
23	ESE	0.57	3,011.32	4,677.89	WATER WELLS

Well Log:	2844	Notice of Intent:	0
Waiver No:		Yield:	
Sequence No:	82224	Drawdown:	
Date Log Rcvd Acc:	D	Hours Pumped:	
Date Log Rcvd:	03/01/1955	Static WI:	23.0

Wells and Additional Sources Detail Report

Well Start Date:	01/30/1955	Temperature:	40.0
Well Finish Date:	02/02/1955	Ref:	MD
Edit Status:	F	App:	
Site Type Code:	N	Source Agency:	NV003
Site Type Desc:	New	Owner No:	
Work Type Code:	N	Owner Current:	HARTY, L M
Work Type Desc:	New	Driller Lic No:	180
Work Type Rmks:		Contractor Lic No:	180
Prop Use Code:	H	Contractor Drlr No:	
Prop Use Desc:	Domestic	Contractor Name:	RUSS BRANDEN
Drilling Mthd Code:	C	User ID:	SCOX
Drilling Mthd Desc:	Cable tool	Parcel No:	
Test Method Code:		Lot No:	
Test Mthd Desc:		Block No:	
Aquifer Desc:		Subdivision Name:	
Depth Seal:		SC:	32031
Depth Drilled:	50	HA:	086
Depth Bedrock:		Twn:	N20
Depth Cased:	50	Legal Twn:	20N
Qual Const Data:	G	Rng:	E20
Qual Lith Data:	G	Legal Rng:	20E
Gravel Pack Top:		Sec:	19
Gravel Pack Bot:		Sec Quarters:	
Gravel Packed:		Legal Quarters:	
Top Perf:	25	Quarters Seq:	
Bottom Perf:	50	Latitude:	39.58583068847656
Perf Intervals:	1	Longitude:	119.77861785888672
Casing Diameter:	5.875	Lat Long Src:	NV003
Casing Reductions:	0	Lat Long Acc:	M
Update User ID:		Utm X:	261367.897727556
Date Entry:	05/12/2004	Utm Y:	4385270.0584431
Date Update:		Remarks Add:	
Date Cmpl Acc:	D		
Owner Address:	SUN VALLEY		
Contractor Addr:	RT 1 BOX 445A		
Remarks:			

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
23	ESE	0.57	3,011.32	4,677.89	WATER WELLS

Well Log:	2049	Notice of Intent:	0
Waiver No:		Yield:	
Sequence No:	82234	Drawdown:	
Date Log Rcvd Acc:	D	Hours Pumped:	
Date Log Rcvd:	10/31/1952	Static Wl:	48.0
Well Start Date:	09/06/1952	Temperature:	66.0

Wells and Additional Sources Detail Report

Well Finish Date:	09/07/1952	Ref:	MD
Edit Status:	F	App:	
Site Type Code:	N	Source Agency:	NV003
Site Type Desc:	New	Owner No:	
Work Type Code:	N	Owner Current:	BERRY, FRED R
Work Type Desc:	New	Driller Lic No:	29
Work Type Rmks:		Contractor Lic No:	29
Prop Use Code:	H	Contractor Drlr No:	
Prop Use Desc:	Domestic	Contractor Name:	CHAMPION PUMP & SUPPLY
Drilling Mthd Code:	C	User ID:	SCOX
Drilling Mthd Desc:	Cable tool	Parcel No:	
Test Method Code:		Lot No:	
Test Mthd Desc:		Block No:	
Aquifer Desc:		Subdivision Name:	
Depth Seal:		SC:	32031
Depth Drilled:	109	HA:	086
Depth Bedrock:		Twn:	N20
Depth Cased:	109	Legal Twn:	20N
Qual Const Data:	G	Rng:	E20
Qual Lith Data:	G	Legal Rng:	20E
Gravel Pack Top:		Sec:	19
Gravel Pack Bot:		Sec Quarters:	
Gravel Packed:		Legal Quarters:	
Top Perf:	80	Quarters Seq:	
Bottom Perf:	109	Latitude:	39.58583068847656
Perf Intervals:	1	Longitude:	119.77861785888672
Casing Diameter:	6.0	Lat Long Src:	NV003
Casing Reductions:	0	Lat Long Acc:	M
Update User ID:		Utm X:	261367.897727556
Date Entry:	05/12/2004	Utm Y:	4385270.0584431
Date Update:		Remarks Add:	
Date Cmpl Acc:	D		
Owner Address:	SUN VALLEY DR & 6TH AVE SUN VALLEY		
Contractor Addr:	RT 1 BOX 352 RENO		
Remarks:			

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
23	ESE	0.57	3,011.32	4,677.89	WATER WELLS

Well Log:	7394	Notice of Intent:	0
Waiver No:		Yield:	
Sequence No:	82177	Drawdown:	
Date Log Rcvd Acc:	D	Hours Pumped:	
Date Log Rcvd:	09/27/1963	Static Wl:	38.0
Well Start Date:	07/02/1963	Temperature:	
Well Finish Date:	07/05/1963	Ref:	MD

Wells and Additional Sources Detail Report

Edit Status:	F	App:	
Site Type Code:	N	Source Agency:	NV003
Site Type Desc:	New	Owner No:	
Work Type Code:	N	Owner Current:	ANDERSON, A J
Work Type Desc:	New	Driller Lic No:	322
Work Type Rmks:		Contractor Lic No:	322
Prop Use Code:	H	Contractor Drlr No:	
Prop Use Desc:	Domestic	Contractor Name:	F R BAXTER
Drilling Mthd Code:	H	User ID:	SCOX
Drilling Mthd Desc:	Hydraulic Rotary-Mud	Parcel No:	
Test Method Code:		Lot No:	14
Test Mthd Desc:		Block No:	I
Aquifer Desc:		Subdivision Name:	SUN VALLEY 5
Depth Seal:		SC:	32031
Depth Drilled:	112	HA:	086
Depth Bedrock:		Twn:	N20
Depth Cased:	112	Legal Twn:	20N
Qual Const Data:	G	Rng:	E20
Qual Lith Data:	G	Legal Rng:	20E
Gravel Pack Top:		Sec:	19
Gravel Pack Bot:		Sec Quarters:	
Gravel Packed:		Legal Quarters:	
Top Perf:	72	Quarters Seq:	
Bottom Perf:	100	Latitude:	39.58583068847656
Perf Intervals:	1	Longitude:	119.77861785888672
Casing Diameter:	6.0	Lat Long Src:	NV003
Casing Reductions:	0	Lat Long Acc:	M
Update User ID:		Utm X:	261367.897727556
Date Entry:	05/12/2004	Utm Y:	4385270.0584431
Date Update:		Remarks Add:	
Date Cmpl Acc:	D		
Owner Address:	5TH & LUPIN		
Contractor Addr:	ST R1 BOX 2490 CARSON		
Remarks:			

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
25	NE	0.58	3,083.85	4,763.53	WATER WELLS

Well Log:	5535	Notice of Intent:	0
Waiver No:		Yield:	30.0
Sequence No:	82120	Drawdown:	45.0
Date Log Rcvd Acc:	D	Hours Pumped:	
Date Log Rcvd:	11/01/1960	Static WI:	44.0
Well Start Date:	07/13/1960	Temperature:	
Well Finish Date:	07/16/1960	Ref:	MD
Edit Status:	F	App:	

Wells and Additional Sources Detail Report

Site Type Code: N	Source Agency: NV003
Site Type Desc: New	Owner No:
Work Type Code: N	Owner Current: BLOCK, KENNETH L
Work Type Desc: New	Driller Lic No: 287
Work Type Rmks:	Contractor Lic No: 207
Prop Use Code: H	Contractor Drlr No:
Prop Use Desc: Domestic	Contractor Name: A & B CONTRACTORS
Drilling Mthd Code: C	User ID: SCOX
Drilling Mthd Desc: Cable tool	Parcel No:
Test Method Code: B	Lot No:
Test Mthd Desc: Bucket	Block No:
Aquifer Desc:	Subdivision Name:
Depth Seal:	SC: 32031
Depth Drilled: 103	HA: 086
Depth Bedrock:	Twn: N20
Depth Cased: 100	Legal Twn: 20N
Qual Const Data: G	Rng: E20
Qual Lith Data: G	Legal Rng: 20E
Gravel Pack Top:	Sec: 18
Gravel Pack Bot:	Sec Quarters: CA
Gravel Packed:	Legal Quarters: NE SW
Top Perf: 75	Quarters Seq:
Bottom Perf: 102	Latitude: 39.598331451416016
Perf Intervals: 1	Longitude: 119.78111267089844
Casing Diameter: 6.0	Lat Long Src: NV003
Casing Reductions: 0	Lat Long Acc: M
Update User ID: SCOX	Utm X: 261196.119700405
Date Entry: 05/11/2004	Utm Y: 4386664.26675938
Date Update: 05/12/2004	Remarks Add:
Date Cmpl Acc: D	
Owner Address: SUN VALLEY	
Contractor Addr: SUN VALLEY	
Remarks:	

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
28	NNW	0.64	3,362.40	5,001.32	WATER WELLS

Well Log: 26038	Notice of Intent:
Waiver No:	Yield: 60.0
Sequence No: 394	Drawdown:
Date Log Rcvd Acc:	Hours Pumped: 2.0
Date Log Rcvd:	Static WI:
Well Start Date:	Temperature:
Well Finish Date: 09/06/1985	Ref: MD
Edit Status: F	App:
Site Type Code: N	Source Agency: NV003

Wells and Additional Sources Detail Report

Site Type Desc:	New	Owner No:	
Work Type Code:	N	Owner Current:	MCCALLISTER, LYNN
Work Type Desc:	New	Driller Lic No:	1001
Work Type Rmks:		Contractor Lic No:	122360
Prop Use Code:	H	Contractor Drlr No:	1001
Prop Use Desc:	Domestic	Contractor Name:	SIERRA PUMP & DRILLING
Drilling Mthd Code:	R	User ID:	
Drilling Mthd Desc:	Reverse rotary	Parcel No:	
Test Method Code:	C	Lot No:	
Test Mthd Desc:	Centrifugal Pump	Block No:	
Aquifer Desc:		Subdivision Name:	SUN VALLEY
Depth Seal:	50	SC:	32031
Depth Drilled:	150	HA:	086
Depth Bedrock:		Twn:	N20
Depth Cased:	150	Legal Twn:	20N
Qual Const Data:		Rng:	E19
Qual Lith Data:		Legal Rng:	19E
Gravel Pack Top:	0	Sec:	13
Gravel Pack Bot:	0	Sec Quarters:	AC
Gravel Packed:	Y	Legal Quarters:	SW NE
Top Perf:	130	Quarters Seq:	
Bottom Perf:	150	Latitude:	39.60194396972656
Perf Intervals:	1	Longitude:	119.79472351074219
Casing Diameter:	6.62	Lat Long Src:	NV003
Casing Reductions:	0	Lat Long Acc:	T
Update User ID:		Utm X:	260039.68139355493
Date Entry:		Utm Y:	4387101.402409753
Date Update:		Remarks Add:	
Date Cmpl Acc:	D		
Owner Address:			
Contractor Addr:			
Remarks:			

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
29	N	0.64	3,371.82	4,898.30	WATER WELLS

Well Log:	32737	Notice of Intent:	12077
Waiver No:		Yield:	50.0
Sequence No:	8411	Drawdown:	180.0
Date Log Rcvd Acc:	D	Hours Pumped:	1.0
Date Log Rcvd:	12/14/1989	Static WI:	
Well Start Date:		Temperature:	
Well Finish Date:	12/05/1989	Ref:	MD
Edit Status:	F	App:	
Site Type Code:	N	Source Agency:	NV003
Site Type Desc:	New	Owner No:	

Wells and Additional Sources Detail Report

Work Type Code:	N	Owner Current:	CLOUTIER, JEFF
Work Type Desc:	New	Driller Lic No:	1418
Work Type Rmks:		Contractor Lic No:	27791
Prop Use Code:	H	Contractor Drlr No:	260
Prop Use Desc:	Domestic	Contractor Name:	DRILLING RESEARCH COMPANY
Drilling Mthd Code:	R	User ID:	TLELLIS
Drilling Mthd Desc:	Reverse rotary	Parcel No:	082-473-20
Test Method Code:	C	Lot No:	
Test Mthd Desc:	Centrifugal Pump	Block No:	
Aquifer Desc:		Subdivision Name:	
Depth Seal:	50	SC:	32031
Depth Drilled:	180	HA:	086
Depth Bedrock:		Twn:	N20
Depth Cased:	180	Legal Twn:	20N
Qual Const Data:	G	Rng:	E19
Qual Lith Data:	G	Legal Rng:	19E
Gravel Pack Top:	0	Sec:	13
Gravel Pack Bot:	0	Sec Quarters:	AD
Gravel Packed:	Y	Legal Quarters:	SE NE
Top Perf:	140	Quarters Seq:	
Bottom Perf:	160	Latitude:	39.60194396972656
Perf Intervals:	1	Longitude:	119.79027557373047
Casing Diameter:	6.0	Lat Long Src:	NV003
Casing Reductions:	0	Lat Long Acc:	T
Update User ID:	TGALLAGHER	Utm X:	260421.347189378
Date Entry:		Utm Y:	4387089.53525612
Date Update:	07/30/2003	Remarks Add:	
Date Cmpl Acc:	D		
Owner Address:	5585 WAINSCOTT RENO NV		
Contractor Addr:	PO BOX 8056 RENO NV		
Remarks:			

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
30	N	0.64	3,372.78	4,898.32	WATER WELLS

Well Log:	30264	Notice of Intent:	9179
Waiver No:		Yield:	
Sequence No:	5907	Drawdown:	
Date Log Rcvd Acc:	D	Hours Pumped:	
Date Log Rcvd:	08/18/1988	Static Wl:	45.0
Well Start Date:		Temperature:	
Well Finish Date:	08/05/1988	Ref:	MD
Edit Status:	F	App:	
Site Type Code:	N	Source Agency:	NV003
Site Type Desc:	New	Owner No:	
Work Type Code:	N	Owner Current:	CLOUTIER, G NORMAN

Wells and Additional Sources Detail Report

Work Type Desc:	New	Driller Lic No:	1511
Work Type Rmks:		Contractor Lic No:	15291
Prop Use Code:	H	Contractor Drlr No:	1132
Prop Use Desc:	Domestic	Contractor Name:	AQUA DRILLING & WELL SERVICE
Drilling Mthd Code:	A	User ID:	NAFLECKS
Drilling Mthd Desc:	Air Rotary	Parcel No:	88-220-02
Test Method Code:	C	Lot No:	
Test Mthd Desc:	Centrifugal Pump	Block No:	
Aquifer Desc:		Subdivision Name:	SUN VALLEY
Depth Seal:	51	SC:	32031
Depth Drilled:	90	HA:	086
Depth Bedrock:		Twn:	N20
Depth Cased:	90	Legal Twn:	20N
Qual Const Data:	G	Rng:	E19
Qual Lith Data:	G	Legal Rng:	19E
Gravel Pack Top:	0	Sec:	13
Gravel Pack Bot:	0	Sec Quarters:	AD
Gravel Packed:	Y	Legal Quarters:	SE NE
Top Perf:	70	Quarters Seq:	
Bottom Perf:	90	Latitude:	39.60194396972656
Perf Intervals:	1	Longitude:	119.79000091552734
Casing Diameter:	6.62	Lat Long Src:	NV003
Casing Reductions:	0	Lat Long Acc:	T
Update User ID:		Utm X:	260445.20129259932
Date Entry:		Utm Y:	4387088.794187419
Date Update:		Remarks Add:	
Date Cmpl Acc:	D		
Owner Address:	425 MINERAL LN SUN VALLEY NV		
Contractor Addr:	625 SPICE ISL DR STE L SPARKS		
Remarks:			

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
30	N	0.64	3,372.78	4,898.32	WATER WELLS

Well Log:	32208	Notice of Intent:	13024
Waiver No:		Yield:	
Sequence No:	7870	Drawdown:	
Date Log Rcvd Acc:	D	Hours Pumped:	
Date Log Rcvd:	08/25/1989	Static Wl:	56.0
Well Start Date:		Temperature:	
Well Finish Date:	08/08/1989	Ref:	MD
Edit Status:	F	App:	
Site Type Code:	N	Source Agency:	NV003
Site Type Desc:	New	Owner No:	
Work Type Code:	N	Owner Current:	CLOUTIER, NORM
Work Type Desc:	New	Driller Lic No:	1509

Wells and Additional Sources Detail Report

Work Type Rmks:	Contractor Lic No: 15291
Prop Use Code: H	Contractor Drlr No: 1132
Prop Use Desc: Domestic	Contractor Name: AQUA DRILLING & WELL SERVICE
Drilling Mthd Code: A	User ID: NAFLECKS
Drilling Mthd Desc: Air Rotary	Parcel No: 88-220-02
Test Method Code: C	Lot No:
Test Mthd Desc: Centrifugal Pump	Block No:
Aquifer Desc:	Subdivision Name: SUN VALLEY
Depth Seal: 55	SC: 32031
Depth Drilled: 100	HA: 086
Depth Bedrock:	Twn: N20
Depth Cased: 100	Legal Twn: 20N
Qual Const Data: G	Rng: E19
Qual Lith Data: G	Legal Rng: 19E
Gravel Pack Top: 0	Sec: 13
Gravel Pack Bot: 0	Sec Quarters: AD
Gravel Packed: Y	Legal Quarters: SE NE
Top Perf: 80	Quarters Seq:
Bottom Perf: 100	Latitude: 39.60194396972656
Perf Intervals: 1	Longitude: 119.79000091552734
Casing Diameter: 6.62	Lat Long Src: NV003
Casing Reductions: 0	Lat Long Acc: T
Update User ID:	Utm X: 260445.20129259932
Date Entry:	Utm Y: 4387088.794187419
Date Update:	Remarks Add:
Date Cmpl Acc: D	
Owner Address: 435 CLOUTIER SUN VALLEY NV	
Contractor Addr: 625 SPICE ISL DR STE L SPARKS	
Remarks:	

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
32	NNW	0.66	3,482.86	5,014.12	WATER WELLS

Well Log: 103679	Notice of Intent: 59109
Waiver No:	Yield: 55.0
Sequence No: 102997	Drawdown:
Date Log Rcvd Acc: D	Hours Pumped: 3.0
Date Log Rcvd: 05/04/2007	Static Wl: 65.0
Well Start Date: 04/09/2007	Temperature:
Well Finish Date: 04/10/2007	Ref: MD
Edit Status: F	App:
Site Type Code: N	Source Agency: NV003
Site Type Desc: New	Owner No:
Work Type Code: N	Owner Current: JENSEN, WES
Work Type Desc: New	Driller Lic No: 923
Work Type Rmks:	Contractor Lic No: 23096

Wells and Additional Sources Detail Report

Prop Use Code:	H	Contractor Drlr No:	
Prop Use Desc:	Domestic	Contractor Name:	BRUCE MACKAY PUMP AND WELL SERVICE INC
Drilling Mthd Code:	A	User ID:	APALMER
Drilling Mthd Desc:	Air Rotary	Parcel No:	082-473-22
Test Method Code:	A	Lot No:	
Test Mthd Desc:	Air Lift	Block No:	
Aquifer Desc:		Subdivision Name:	
Depth Seal:	50	SC:	32031
Depth Drilled:	175	HA:	086
Depth Bedrock:		Twn:	N20
Depth Cased:	175	Legal Twn:	20N
Qual Const Data:	G	Rng:	E19
Qual Lith Data:	G	Legal Rng:	19E
Gravel Pack Top:	50	Sec:	13
Gravel Pack Bot:	175	Sec Quarters:	BD
Gravel Packed:	Y	Legal Quarters:	SE NW
Top Perf:	130	Quarters Seq:	
Bottom Perf:	170	Latitude:	39.60081
Perf Intervals:	1	Longitude:	119.800753
Casing Diameter:	6.625	Lat Long Src:	
Casing Reductions:	0	Lat Long Acc:	
Update User ID:	AMORI	Utm X:	259517.862015684
Date Entry:	10/18/2007	Utm Y:	4386991.60581341
Date Update:	11/14/2007	Remarks Add:	
Date Cmpl Acc:	D		
Owner Address:	700 W 7TH SUN VALLEY		
Contractor Addr:	1600 MT ROSE HWY RENO NV 89511		
Remarks:	WASHOE CO PERMIT #WL070040 NAD 27		

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
33	NW	0.66	3,483.16	5,161.37	WATER WELLS

Well Log:	30046	Notice of Intent:	10322
Waiver No:		Yield:	
Sequence No:	5660	Drawdown:	
Date Log Rcvd Acc:	D	Hours Pumped:	
Date Log Rcvd:	06/17/1988	Static Wl:	70.0
Well Start Date:		Temperature:	
Well Finish Date:	05/30/1988	Ref:	MD
Edit Status:	F	App:	
Site Type Code:	N	Source Agency:	NV003
Site Type Desc:	New	Owner No:	
Work Type Code:	N	Owner Current:	JENSEN, WES
Work Type Desc:	New	Driller Lic No:	908
Work Type Rmks:		Contractor Lic No:	22549
Prop Use Code:	H	Contractor Drlr No:	908

Wells and Additional Sources Detail Report

Prop Use Desc:	Domestic	Contractor Name:	WAYNE DRILLING INC
Drilling Mthd Code:	A	User ID:	NAFLECKS
Drilling Mthd Desc:	Air Rotary	Parcel No:	82-471-21
Test Method Code:		Lot No:	
Test Mthd Desc:		Block No:	
Aquifer Desc:		Subdivision Name:	SUN VALLEY
Depth Seal:	50	SC:	32031
Depth Drilled:	165	HA:	086
Depth Bedrock:		Twn:	N20
Depth Cased:	165	Legal Twn:	20N
Qual Const Data:	G	Rng:	E19
Qual Lith Data:	G	Legal Rng:	19E
Gravel Pack Top:	0	Sec:	13
Gravel Pack Bot:	0	Sec Quarters:	CB
Gravel Packed:	Y	Legal Quarters:	NW SW
Top Perf:	130	Quarters Seq:	
Bottom Perf:	160	Latitude:	39.598331451416016
Perf Intervals:	1	Longitude:	119.80416870117188
Casing Diameter:	6.62	Lat Long Src:	NV003
Casing Reductions:	0	Lat Long Acc:	T
Update User ID:		Utm X:	259216.12522767927
Date Entry:		Utm Y:	4386725.829203915
Date Update:		Remarks Add:	
Date Cmpl Acc:	D		
Owner Address:	720 W 7TH ST SPARKS NV		
Contractor Addr:	P O BOX 12370 RENO NV 89510		
Remarks:			

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
34	NNE	0.67	3,533.30	4,844.25	WATER WELLS

Well Log:	5491	Notice of Intent:	0
Waiver No:		Yield:	20.0
Sequence No:	82124	Drawdown:	120.0
Date Log Rcvd Acc:	D	Hours Pumped:	
Date Log Rcvd:	10/25/1960	Static WI:	35.0
Well Start Date:	06/17/1960	Temperature:	
Well Finish Date:	06/21/1960	Ref:	MD
Edit Status:	F	App:	
Site Type Code:	N	Source Agency:	NV003
Site Type Desc:	New	Owner No:	
Work Type Code:	N	Owner Current:	SUN VALLEY FIRE DEPT
Work Type Desc:	New	Driller Lic No:	287
Work Type Rmks:		Contractor Lic No:	208
Prop Use Code:	H	Contractor Drlr No:	
Prop Use Desc:	Domestic	Contractor Name:	A & B CONTRACTORS

Wells and Additional Sources Detail Report

Drilling Mthd Code: C	User ID: SCOX
Drilling Mthd Desc: Cable tool	Parcel No:
Test Method Code: B	Lot No:
Test Mthd Desc: Bucket	Block No:
Aquifer Desc:	Subdivision Name:
Depth Seal:	SC: 32031
Depth Drilled: 203	HA: 086
Depth Bedrock:	Twn: N20
Depth Cased: 203	Legal Twn: 20N
Qual Const Data: G	Rng: E20
Qual Lith Data: G	Legal Rng: 20E
Gravel Pack Top:	Sec: 18
Gravel Pack Bot:	Sec Quarters: BC
Gravel Packed:	Legal Quarters: SW NW
Top Perf: 122	Quarters Seq:
Bottom Perf: 200	Latitude: 39.60194396972656
Perf Intervals: 1	Longitude: 119.78555297851562
Casing Diameter: 6.0	Lat Long Src: NV003
Casing Reductions: 0	Lat Long Acc: M
Update User ID: SCOX	Utm X: 260826.866799341
Date Entry: 05/11/2004	Utm Y: 4387076.94714252
Date Update: 05/12/2004	Remarks Add:
Date Cmpl Acc: D	
Owner Address: SUN VALLEY	
Contractor Addr: SUN VALLEY	
Remarks:	

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
35	NW	0.67	3,547.93	5,154.96	WATER WELLS

Well Log: 89476	Notice of Intent: 45044
Waiver No:	Yield: 25.0
Sequence No: 71702	Drawdown:
Date Log Rcvd Acc: D	Hours Pumped:
Date Log Rcvd: 04/11/2003	Static Wl: 48.0
Well Start Date: 04/02/2003	Temperature:
Well Finish Date: 04/03/2003	Ref: MD
Edit Status: F	App:
Site Type Code: N	Source Agency: NV003
Site Type Desc: New	Owner No:
Work Type Code: N	Owner Current: CALLOS, BILL
Work Type Desc: New	Driller Lic No: 923
Work Type Rmks:	Contractor Lic No: 22549
Prop Use Code: H	Contractor Drlr No:
Prop Use Desc: Domestic	Contractor Name: WAYNE DRILLING INC
Drilling Mthd Code: A	User ID: BMCCULLARS

Wells and Additional Sources Detail Report

Drilling Mthd Desc:	Air Rotary	Parcel No:	088-220-32
Test Method Code:	A	Lot No:	
Test Mthd Desc:	Air Lift	Block No:	
Aquifer Desc:		Subdivision Name:	SUN VALLEY
Depth Seal:	100	SC:	32031
Depth Drilled:	145	HA:	086
Depth Bedrock:		Twn:	N20
Depth Cased:	145	Legal Twn:	20N
Qual Const Data:	G	Rng:	E19
Qual Lith Data:	G	Legal Rng:	19E
Gravel Pack Top:	100	Sec:	13
Gravel Pack Bot:	145	Sec Quarters:	CB
Gravel Packed:	Y	Legal Quarters:	NW SW
Top Perf:	110	Quarters Seq:	
Bottom Perf:	140	Latitude:	39.598331451416016
Perf Intervals:	1	Longitude:	119.80445098876953
Casing Diameter:	6.625	Lat Long Src:	NV003
Casing Reductions:	0	Lat Long Acc:	M
Update User ID:		Utm X:	259192.269827856
Date Entry:	06/05/2003	Utm Y:	4386726.5740251
Date Update:		Remarks Add:	
Date Cmpl Acc:	D		
Owner Address:	5722 URSULA CT., SUN VALLEY		
Contractor Addr:	P O BOX 12370 RENO NV 89510		
Remarks:			

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
36	NE	0.68	3,605.63	4,780.31	WATER WELLS

Well Log:	120058	Notice of Intent:	71162
Waiver No:		Yield:	
Sequence No:	120025	Drawdown:	
Date Log Rcvd Acc:	D	Hours Pumped:	
Date Log Rcvd:	05/01/2014	Static Wl:	78.0
Well Start Date:	03/19/2014	Temperature:	
Well Finish Date:	03/19/2014	Ref:	MD
Edit Status:	F	App:	
Site Type Code:	N	Source Agency:	NV003
Site Type Desc:	New	Owner No:	MW-2
Work Type Code:	N	Owner Current:	JASBIR CHAHAL - HIGHLAND STORES
Work Type Desc:	New	Driller Lic No:	2467
Work Type Rmks:	FACILITY ID 4-000755	Contractor Lic No:	73966
Prop Use Code:	G	Contractor Drlr No:	
Prop Use Desc:	Monitoring Well	Contractor Name:	CASCADE DRILLING LP
Drilling Mthd Code:	B	User ID:	ABROWNLEE
Drilling Mthd Desc:	Bored or Augered	Parcel No:	085-261-41

Wells and Additional Sources Detail Report

Test Method Code:		Lot No:	
Test Mthd Desc:		Block No:	
Aquifer Desc:		Subdivision Name:	
Depth Seal:	57	SC:	32031
Depth Drilled:	90	HA:	086
Depth Bedrock:		Twn:	N20
Depth Cased:	90	Legal Twn:	20N
Qual Const Data:	G	Rng:	E20
Qual Lith Data:	G	Legal Rng:	20E
Gravel Pack Top:	57	Sec:	18
Gravel Pack Bot:	90	Sec Quarters:	CA
Gravel Packed:	Y	Legal Quarters:	NE SW
Top Perf:	60	Quarters Seq:	
Bottom Perf:	90	Latitude:	39.599679
Perf Intervals:	1	Longitude:	119.780214
Casing Diameter:	2.0	Lat Long Src:	
Casing Reductions:	0	Lat Long Acc:	
Update User ID:		Utm X:	261277.786609529
Date Entry:	05/09/2014	Utm Y:	4386811.25761694
Date Update:		Remarks Add:	
Date Cmpl Acc:	D		
Owner Address:	5690 SUN VALLEY BLVD SUN VALLEY		
Contractor Addr:	19404 WOODINVILLE SNOHOMISH RD WOODNVILLE WA 98072		
Remarks:			

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
37	NE	0.69	3,621.12	4,781.73	WATER WELLS

Well Log:	120057	Notice of Intent:	71162
Waiver No:		Yield:	
Sequence No:	120024	Drawdown:	
Date Log Rcvd Acc:	D	Hours Pumped:	
Date Log Rcvd:	05/01/2014	Static WI:	78.0
Well Start Date:	03/18/2014	Temperature:	
Well Finish Date:	03/18/2014	Ref:	MD
Edit Status:	F	App:	
Site Type Code:	N	Source Agency:	NV003
Site Type Desc:	New	Owner No:	MW-1
Work Type Code:	N	Owner Current:	JASBIR CHAHAL - HIGHLAND STORES
Work Type Desc:	New	Driller Lic No:	2467
Work Type Rmks:	FACILITY ID 4-000755	Contractor Lic No:	73966
Prop Use Code:	G	Contractor Drlr No:	
Prop Use Desc:	Monitoring Well	Contractor Name:	CASCADE DRILLING LP
Drilling Mthd Code:	B	User ID:	ABROWNLEE
Drilling Mthd Desc:	Bored or Augered	Parcel No:	085-261-41
Test Method Code:		Lot No:	

Wells and Additional Sources Detail Report

Test Mthd Desc:		Block No:	
Aquifer Desc:		Subdivision Name:	
Depth Seal:	47	SC:	32031
Depth Drilled:	90	HA:	086
Depth Bedrock:		Twn:	N20
Depth Cased:	90	Legal Twn:	20N
Qual Const Data:	G	Rng:	E20
Qual Lith Data:	G	Legal Rng:	20E
Gravel Pack Top:	47	Sec:	18
Gravel Pack Bot:	90	Sec Quarters:	CA
Gravel Packed:	Y	Legal Quarters:	NE SW
Top Perf:	50	Quarters Seq:	
Bottom Perf:	90	Latitude:	39.599796
Perf Intervals:	1	Longitude:	119.780289
Casing Diameter:	2.0	Lat Long Src:	
Casing Reductions:	0	Lat Long Acc:	
Update User ID:		Utm X:	261271.747838515
Date Entry:	05/09/2014	Utm Y:	4386824.44460293
Date Update:		Remarks Add:	
Date Cmpl Acc:	D		
Owner Address:	5690 SUN VALLEY BLVD SUN VALLEY		
Contractor Addr:	19404 WOODINVILLE SNOHOMISH RD WOODNVILLE WA 98072		
Remarks:			

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
38	NE	0.69	3,621.38	4,780.68	WATER WELLS

Well Log:	120059	Notice of Intent:	71162
Waiver No:		Yield:	
Sequence No:	120026	Drawdown:	
Date Log Rcvd Acc:	D	Hours Pumped:	
Date Log Rcvd:	05/01/2014	Static Wl:	78.0
Well Start Date:	03/19/2014	Temperature:	
Well Finish Date:	03/19/2014	Ref:	MD
Edit Status:	F	App:	
Site Type Code:	N	Source Agency:	NV003
Site Type Desc:	New	Owner No:	MW-3
Work Type Code:	N	Owner Current:	JASBIR CHAHAL - HIGHLAND STORES
Work Type Desc:	New	Driller Lic No:	2467
Work Type Rmks:	FACILITY ID 4-000755	Contractor Lic No:	73966
Prop Use Code:	G	Contractor Drlr No:	
Prop Use Desc:	Monitoring Well	Contractor Name:	CASCADE DRILLING LP
Drilling Mthd Code:	B	User ID:	ABROWNLEE
Drilling Mthd Desc:	Bored or Augered	Parcel No:	085-261-41
Test Method Code:		Lot No:	
Test Mthd Desc:		Block No:	

Wells and Additional Sources Detail Report

Aquifer Desc:		Subdivision Name:	
Depth Seal:	57	SC:	32031
Depth Drilled:	90	HA:	086
Depth Bedrock:		Twn:	N20
Depth Cased:	90	Legal Twn:	20N
Qual Const Data:	G	Rng:	E20
Qual Lith Data:	G	Legal Rng:	20E
Gravel Pack Top:	57	Sec:	18
Gravel Pack Bot:	90	Sec Quarters:	CA
Gravel Packed:	Y	Legal Quarters:	NE SW
Top Perf:	60	Quarters Seq:	
Bottom Perf:	90	Latitude:	39.59974
Perf Intervals:	1	Longitude:	119.780214
Casing Diameter:	2.0	Lat Long Src:	
Casing Reductions:	0	Lat Long Acc:	
Update User ID:		Utm X:	261277.996212814
Date Entry:	05/09/2014	Utm Y:	4386818.02893537
Date Update:		Remarks Add:	
Date Cmpl Acc:	D		
Owner Address:	5690 SUN VALLEY BLVD SUN VALLEY		
Contractor Addr:	19404 WOODINVILLE SNOHOMISH RD WOODNVILLE WA 98072		
Remarks:			

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
39	ENE	0.69	3,628.92	4,696.88	WATER WELLS

Well Log:	6225	Notice of Intent:	0
Waiver No:		Yield:	25.0
Sequence No:	82182	Drawdown:	40.0
Date Log Rcvd Acc:	D	Hours Pumped:	
Date Log Rcvd:	11/03/1961	Static WI:	27.0
Well Start Date:	08/18/1961	Temperature:	
Well Finish Date:	08/21/1961	Ref:	MD
Edit Status:	F	App:	
Site Type Code:	N	Source Agency:	NV003
Site Type Desc:	New	Owner No:	
Work Type Code:	N	Owner Current:	GLASGOW, ALLEN
Work Type Desc:	New	Driller Lic No:	343
Work Type Rmks:		Contractor Lic No:	6538
Prop Use Code:	H	Contractor Drlr No:	
Prop Use Desc:	Domestic	Contractor Name:	A & B CONTRACTORS
Drilling Mthd Code:	C	User ID:	SCOX
Drilling Mthd Desc:	Cable tool	Parcel No:	
Test Method Code:	B	Lot No:	
Test Mthd Desc:	Bucket	Block No:	
Aquifer Desc:		Subdivision Name:	

Wells and Additional Sources Detail Report

Depth Seal:		SC:	32031
Depth Drilled:	105	HA:	086
Depth Bedrock:		Twn:	N20
Depth Cased:	86	Legal Twn:	20N
Qual Const Data:	G	Rng:	E20
Qual Lith Data:	G	Legal Rng:	20E
Gravel Pack Top:		Sec:	19
Gravel Pack Bot:		Sec Quarters:	AB
Gravel Packed:		Legal Quarters:	NW NE
Top Perf:	55	Quarters Seq:	
Bottom Perf:	80	Latitude:	39.59111022949219
Perf Intervals:	1	Longitude:	119.7763900756836
Casing Diameter:	6.0	Lat Long Src:	NV003
Casing Reductions:	0	Lat Long Acc:	M
Update User ID:	MDILLON	Utm X:	261576.880252433
Date Entry:	05/12/2004	Utm Y:	4385850.01708132
Date Update:	06/01/2004	Remarks Add:	
Date Cmpl Acc:	D		
Owner Address:	CARROL DR SUN VALLEY		
Contractor Addr:	SUN VALLEY		
Remarks:			

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
40	E	0.69	3,633.60	4,680.26	WATER WELLS

Well Log:	4244	Notice of Intent:	0
Waiver No:		Yield:	15.0
Sequence No:	82200	Drawdown:	35.0
Date Log Rcvd Acc:	D	Hours Pumped:	
Date Log Rcvd:	09/15/1958	Static Wl:	50.0
Well Start Date:	08/13/1958	Temperature:	
Well Finish Date:	08/14/1958	Ref:	MD
Edit Status:	F	App:	
Site Type Code:	N	Source Agency:	NV003
Site Type Desc:	New	Owner No:	
Work Type Code:	N	Owner Current:	MC ALLEY, H
Work Type Desc:	New	Driller Lic No:	287
Work Type Rmks:		Contractor Lic No:	287
Prop Use Code:	H	Contractor Drlr No:	
Prop Use Desc:	Domestic	Contractor Name:	M ARTLIP
Drilling Mthd Code:	C	User ID:	SCOX
Drilling Mthd Desc:	Cable tool	Parcel No:	
Test Method Code:	B	Lot No:	
Test Mthd Desc:	Bucket	Block No:	
Aquifer Desc:		Subdivision Name:	
Depth Seal:		SC:	32031

Wells and Additional Sources Detail Report

Depth Drilled:	115	HA:	086
Depth Bedrock:		Twn:	N20
Depth Cased:	80	Legal Twn:	20N
Qual Const Data:	G	Rng:	E20
Qual Lith Data:	G	Legal Rng:	20E
Gravel Pack Top:		Sec:	19
Gravel Pack Bot:		Sec Quarters:	AC
Gravel Packed:		Legal Quarters:	SW NE
Top Perf:	40	Quarters Seq:	
Bottom Perf:	80	Latitude:	39.58749771118164
Perf Intervals:	1	Longitude:	119.7763900756836
Casing Diameter:	6.0	Lat Long Src:	NV003
Casing Reductions:	0	Lat Long Acc:	M
Update User ID:		Utm X:	261564.491886849
Date Entry:	05/12/2004	Utm Y:	4385449.16570219
Date Update:		Remarks Add:	
Date Cmpl Acc:	D		
Owner Address:	332 SUN VALLEY DR SUN VALLEY		
Contractor Addr:	SUN VALLEY		
Remarks:			

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
40	E	0.69	3,633.60	4,680.26	WATER WELLS

Well Log:	4116	Notice of Intent:	0
Waiver No:		Yield:	16.0
Sequence No:	82209	Drawdown:	30.0
Date Log Rcvd Acc:	D	Hours Pumped:	
Date Log Rcvd:	06/26/1958	Static Wl:	40.0
Well Start Date:	04/28/1958	Temperature:	
Well Finish Date:	04/29/1958	Ref:	MD
Edit Status:	F	App:	
Site Type Code:	E	Source Agency:	NV003
Site Type Desc:	Existing (Deepen)	Owner No:	
Work Type Code:	D	Owner Current:	GLIEM, R E
Work Type Desc:	Deepen	Driller Lic No:	287
Work Type Rmks:		Contractor Lic No:	287
Prop Use Code:	H	Contractor Drlr No:	
Prop Use Desc:	Domestic	Contractor Name:	M ARTLIP
Drilling Mthd Code:	C	User ID:	SCOX
Drilling Mthd Desc:	Cable tool	Parcel No:	
Test Method Code:	U	Lot No:	
Test Mthd Desc:	Unknown	Block No:	
Aquifer Desc:		Subdivision Name:	SUN VALLEY 2
Depth Seal:		SC:	32031
Depth Drilled:	107	HA:	086

Wells and Additional Sources Detail Report

Depth Bedrock:		TwN:	N20
Depth Cased:	100	Legal TwN:	20N
Qual Const Data:	G	Rng:	E20
Qual Lith Data:	G	Legal Rng:	20E
Gravel Pack Top:		Sec:	19
Gravel Pack Bot:		Sec Quarters:	AC
Gravel Packed:		Legal Quarters:	SW NE
Top Perf:	50	Quarters Seq:	
Bottom Perf:	100	Latitude:	39.58749771118164
Perf Intervals:	1	Longitude:	119.7763900756836
Casing Diameter:	6.0	Lat Long Src:	NV003
Casing Reductions:	0	Lat Long Acc:	M
Update User ID:	SCOX	Utm X:	261564.491886849
Date Entry:	05/12/2004	Utm Y:	4385449.16570219
Date Update:	06/02/2004	Remarks Add:	
Date Cmpl Acc:	D		
Owner Address:	367 CARROLL DR SUN VALLEY		
Contractor Addr:	SUN VALLEY		
Remarks:			

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
40	E	0.69	3,633.60	4,680.26	WATER WELLS

Well Log:	4243	Notice of Intent:	0
Waiver No:		Yield:	15.0
Sequence No:	82201	Drawdown:	
Date Log Rcvd Acc:	D	Hours Pumped:	
Date Log Rcvd:	09/15/1958	Static WI:	25.0
Well Start Date:	08/13/1958	Temperature:	
Well Finish Date:	08/14/1958	Ref:	MD
Edit Status:	F	App:	
Site Type Code:	N	Source Agency:	NV003
Site Type Desc:	New	Owner No:	
Work Type Code:	N	Owner Current:	PACHECO, LEE
Work Type Desc:	New	Driller Lic No:	287
Work Type Rmks:		Contractor Lic No:	287
Prop Use Code:	H	Contractor Drlr No:	
Prop Use Desc:	Domestic	Contractor Name:	M ARTLIP
Drilling Mthd Code:	C	User ID:	SCOX
Drilling Mthd Desc:	Cable tool	Parcel No:	
Test Method Code:	B	Lot No:	
Test Mthd Desc:	Bucket	Block No:	
Aquifer Desc:		Subdivision Name:	
Depth Seal:		SC:	32031
Depth Drilled:	75	HA:	086
Depth Bedrock:		TwN:	N20

Wells and Additional Sources Detail Report

Depth Cased:	75	Legal Twn:	20N
Qual Const Data:	G	Rng:	E20
Qual Lith Data:	G	Legal Rng:	20E
Gravel Pack Top:		Sec:	19
Gravel Pack Bot:		Sec Quarters:	AC
Gravel Packed:		Legal Quarters:	SW NE
Top Perf:	45	Quarters Seq:	
Bottom Perf:	75	Latitude:	39.58749771118164
Perf Intervals:	1	Longitude:	119.7763900756836
Casing Diameter:	6.0	Lat Long Src:	NV003
Casing Reductions:	0	Lat Long Acc:	M
Update User ID:		Utm X:	261564.491886849
Date Entry:	05/12/2004	Utm Y:	4385449.16570219
Date Update:		Remarks Add:	
Date Cmpl Acc:	D		
Owner Address:	331 LEON DR SUN VALLEY		
Contractor Addr:	SUN VALLEY		
Remarks:			

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
40	E	0.69	3,633.60	4,680.26	WATER WELLS

Well Log:	2354	Notice of Intent:	0
Waiver No:		Yield:	30.0
Sequence No:	82233	Drawdown:	
Date Log Rcvd Acc:	D	Hours Pumped:	
Date Log Rcvd:	08/20/1953	Static Wl:	35.0
Well Start Date:	08/04/1953	Temperature:	
Well Finish Date:	08/04/1953	Ref:	MD
Edit Status:	F	App:	
Site Type Code:	N	Source Agency:	NV003
Site Type Desc:	New	Owner No:	
Work Type Code:	N	Owner Current:	LEVANO, ROBERT
Work Type Desc:	New	Driller Lic No:	3
Work Type Rmks:		Contractor Lic No:	3
Prop Use Code:	H	Contractor Drlr No:	
Prop Use Desc:	Domestic	Contractor Name:	MEL MEYER
Drilling Mthd Code:	C	User ID:	SCOX
Drilling Mthd Desc:	Cable tool	Parcel No:	
Test Method Code:	B	Lot No:	
Test Mthd Desc:	Bucket	Block No:	
Aquifer Desc:		Subdivision Name:	
Depth Seal:		SC:	32031
Depth Drilled:	144	HA:	086
Depth Bedrock:		Twn:	N20
Depth Cased:	153	Legal Twn:	20N

Wells and Additional Sources Detail Report

Qual Const Data:	G	Rng:	E20
Qual Lith Data:	G	Legal Rng:	20E
Gravel Pack Top:		Sec:	19
Gravel Pack Bot:		Sec Quarters:	AC
Gravel Packed:		Legal Quarters:	SW NE
Top Perf:	33	Quarters Seq:	
Bottom Perf:	142	Latitude:	39.58749771118164
Perf Intervals:	2	Longitude:	119.7763900756836
Casing Diameter:	8.0	Lat Long Src:	NV003
Casing Reductions:	0	Lat Long Acc:	M
Update User ID:	SCOX	Utm X:	261564.491886849
Date Entry:	05/12/2004	Utm Y:	4385449.16570219
Date Update:	06/02/2004	Remarks Add:	
Date Cmpl Acc:	D		
Owner Address:	323 VALLEY DR RENO		
Contractor Addr:	120 MOANA LANE RENO		
Remarks:			

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
40	E	0.69	3,633.60	4,680.26	WATER WELLS

Well Log:	2356	Notice of Intent:	0
Waiver No:		Yield:	60.0
Sequence No:	82232	Drawdown:	
Date Log Rcvd Acc:	D	Hours Pumped:	
Date Log Rcvd:	08/20/1953	Static Wl:	40.0
Well Start Date:	07/30/1953	Temperature:	
Well Finish Date:	08/01/1953	Ref:	MD
Edit Status:	F	App:	
Site Type Code:	N	Source Agency:	NV003
Site Type Desc:	New	Owner No:	
Work Type Code:	N	Owner Current:	MC NABB, GLEN
Work Type Desc:	New	Driller Lic No:	3
Work Type Rmks:		Contractor Lic No:	3
Prop Use Code:	H	Contractor Drlr No:	
Prop Use Desc:	Domestic	Contractor Name:	MEL MEYER
Drilling Mthd Code:	C	User ID:	SCOX
Drilling Mthd Desc:	Cable tool	Parcel No:	
Test Method Code:	B	Lot No:	
Test Mthd Desc:	Bucket	Block No:	
Aquifer Desc:		Subdivision Name:	
Depth Seal:		SC:	32031
Depth Drilled:	128	HA:	086
Depth Bedrock:		Twn:	N20
Depth Cased:	128	Legal Twn:	20N
Qual Const Data:	G	Rng:	E20

Wells and Additional Sources Detail Report

Qual Lith Data:	G	Legal Rng:	20E
Gravel Pack Top:		Sec:	19
Gravel Pack Bot:		Sec Quarters:	AC
Gravel Packed:		Legal Quarters:	SW NE
Top Perf:	66	Quarters Seq:	
Bottom Perf:	124	Latitude:	39.58749771118164
Perf Intervals:	1	Longitude:	119.7763900756836
Casing Diameter:	8.0	Lat Long Src:	NV003
Casing Reductions:	0	Lat Long Acc:	M
Update User ID:		Utm X:	261564.491886849
Date Entry:	05/12/2004	Utm Y:	4385449.16570219
Date Update:		Remarks Add:	
Date Cmpl Acc:	D		
Owner Address:	FOURTH ST SUN VALLEY		
Contractor Addr:	120 MOANA LANE RENO		
Remarks:			

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
40	E	0.69	3,633.60	4,680.26	WATER WELLS

Well Log:	4528	Notice of Intent:	0
Waiver No:		Yield:	10.0
Sequence No:	82195	Drawdown:	
Date Log Rcvd Acc:	D	Hours Pumped:	
Date Log Rcvd:	05/05/1959	Static Wl:	25.0
Well Start Date:	02/27/1959	Temperature:	
Well Finish Date:	02/28/1959	Ref:	MD
Edit Status:	F	App:	
Site Type Code:	N	Source Agency:	NV003
Site Type Desc:	New	Owner No:	
Work Type Code:	N	Owner Current:	HAMMON, A S
Work Type Desc:	New	Driller Lic No:	287
Work Type Rmks:		Contractor Lic No:	287
Prop Use Code:	H	Contractor Drlr No:	
Prop Use Desc:	Domestic	Contractor Name:	A & B CONTRACTORS
Drilling Mthd Code:	C	User ID:	SCOX
Drilling Mthd Desc:	Cable tool	Parcel No:	
Test Method Code:	B	Lot No:	10 & 11
Test Mthd Desc:	Bucket	Block No:	3
Aquifer Desc:		Subdivision Name:	SUN VALLEY 2
Depth Seal:		SC:	32031
Depth Drilled:	67	HA:	086
Depth Bedrock:		Twn:	N20
Depth Cased:	60	Legal Twn:	20N
Qual Const Data:	G	Rng:	E20
Qual Lith Data:	G	Legal Rng:	20E

Wells and Additional Sources Detail Report

Gravel Pack Top:		Sec:	19
Gravel Pack Bot:		Sec Quarters:	AC
Gravel Packed:		Legal Quarters:	SW NE
Top Perf:	45	Quarters Seq:	
Bottom Perf:	60	Latitude:	39.58749771118164
Perf Intervals:	1	Longitude:	119.7763900756836
Casing Diameter:	6.0	Lat Long Src:	NV003
Casing Reductions:	0	Lat Long Acc:	M
Update User ID:		Utm X:	261564.491886849
Date Entry:	05/12/2004	Utm Y:	4385449.16570219
Date Update:		Remarks Add:	
Date Cmpl Acc:	D		
Owner Address:	323 LEON DRIVE SUN VALLEY		
Contractor Addr:	SUN VALLEY		
Remarks:			

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
40	E	0.69	3,633.60	4,680.26	WATER WELLS

Well Log:	4115	Notice of Intent:	0
Waiver No:		Yield:	20.0
Sequence No:	82210	Drawdown:	10.0
Date Log Rcvd Acc:	D	Hours Pumped:	
Date Log Rcvd:	06/26/1958	Static Wl:	27.0
Well Start Date:	04/21/1958	Temperature:	
Well Finish Date:	04/24/1958	Ref:	MD
Edit Status:	F	App:	
Site Type Code:	N	Source Agency:	NV003
Site Type Desc:	New	Owner No:	
Work Type Code:	N	Owner Current:	STOCKE, CHARLES V
Work Type Desc:	New	Driller Lic No:	287
Work Type Rmks:		Contractor Lic No:	287
Prop Use Code:	H	Contractor Drlr No:	
Prop Use Desc:	Domestic	Contractor Name:	M ARTLIP
Drilling Mthd Code:	C	User ID:	SCOX
Drilling Mthd Desc:	Cable tool	Parcel No:	
Test Method Code:	B	Lot No:	5
Test Mthd Desc:	Bucket	Block No:	D
Aquifer Desc:		Subdivision Name:	SUN VALLEY 2
Depth Seal:		SC:	32031
Depth Drilled:	87	HA:	086
Depth Bedrock:		Twn:	N20
Depth Cased:	80	Legal Twn:	20N
Qual Const Data:	G	Rng:	E20
Qual Lith Data:	G	Legal Rng:	20E
Gravel Pack Top:		Sec:	19

Wells and Additional Sources Detail Report

Gravel Pack Bot:	Sec Quarters:	AC
Gravel Packed:	Legal Quarters:	SW NE
Top Perf: 40	Quarters Seq:	
Bottom Perf: 80	Latitude:	39.58749771118164
Perf Intervals: 1	Longitude:	119.7763900756836
Casing Diameter: 6.0	Lat Long Src:	NV003
Casing Reductions: 0	Lat Long Acc:	M
Update User ID: SCOX	Utm X:	261564.491886849
Date Entry: 05/12/2004	Utm Y:	4385449.16570219
Date Update: 06/02/2004	Remarks Add:	
Date Cmpl Acc: D		
Owner Address: 339 CARROL DR SUN VALLEY		
Contractor Addr: SUN VALLEY		
Remarks:		

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
40	E	0.69	3,633.60	4,680.61	WATER WELLS

Well Log: 15041	Notice of Intent: 0
Waiver No:	Yield: 30.0
Sequence No: 95981	Drawdown:
Date Log Rcvd Acc:	Hours Pumped:
Date Log Rcvd:	Static WI: 35.0
Well Start Date: 08/04/1953	Temperature:
Well Finish Date:	Ref: MD
Edit Status: F	App:
Site Type Code: N	Source Agency: NV003
Site Type Desc: New	Owner No:
Work Type Code: N	Owner Current: LEVANO, ROBERT
Work Type Desc: New	Driller Lic No: 3
Work Type Rmks:	Contractor Lic No:
Prop Use Code: H	Contractor Drlr No:
Prop Use Desc: Domestic	Contractor Name: MEL MEYER
Drilling Mthd Code: C	User ID: MTHORSON
Drilling Mthd Desc: Cable tool	Parcel No:
Test Method Code: B	Lot No:
Test Mthd Desc: Bucket	Block No:
Aquifer Desc:	Subdivision Name:
Depth Seal:	SC: 32031
Depth Drilled: 144	HA: 086
Depth Bedrock:	Twn: N20
Depth Cased: 137	Legal Twn: 20N
Qual Const Data: G	Rng: E20
Qual Lith Data: G	Legal Rng: 20E
Gravel Pack Top:	Sec: 19
Gravel Pack Bot:	Sec Quarters: AC

Wells and Additional Sources Detail Report

Gravel Packed:		Legal Quarters:	SW NE
Top Perf:	33	Quarters Seq:	
Bottom Perf:	142	Latitude:	39.5875
Perf Intervals:	2	Longitude:	119.776388888889
Casing Diameter:	8.0	Lat Long Src:	
Casing Reductions:	0	Lat Long Acc:	M
Update User ID:		Utm X:	261564.491886849
Date Entry:	07/20/2005	Utm Y:	4385449.16570219
Date Update:		Remarks Add:	
Date Cmpl Acc:			
Owner Address:			
Contractor Addr:	120 MOANA LANE RENO NV		
Remarks:			

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
41	ESE	0.69	3,635.87	4,663.01	WATER WELLS

Well Log:	22751	Notice of Intent:	0
Waiver No:		Yield:	300.0
Sequence No:	82165	Drawdown:	
Date Log Rcvd Acc:	D	Hours Pumped:	
Date Log Rcvd:	04/30/1981	Static Wl:	3.0
Well Start Date:	04/17/1981	Temperature:	
Well Finish Date:	04/17/1981	Ref:	MD
Edit Status:	F	App:	
Site Type Code:	N	Source Agency:	NV003
Site Type Desc:	New	Owner No:	
Work Type Code:	N	Owner Current:	NORK, WILLIAM
Work Type Desc:	New	Driller Lic No:	1165
Work Type Rmks:		Contractor Lic No:	15291
Prop Use Code:	X	Contractor Drlr No:	
Prop Use Desc:	Test Well	Contractor Name:	AQUA DRILLING & WELL SERVICE INC
Drilling Mthd Code:	H	User ID:	SCOX
Drilling Mthd Desc:	Hydraulic Rotary-Mud	Parcel No:	
Test Method Code:	A	Lot No:	
Test Mthd Desc:	Air Lift	Block No:	
Aquifer Desc:		Subdivision Name:	
Depth Seal:		SC:	32031
Depth Drilled:	100	HA:	086
Depth Bedrock:		Twn:	N20
Depth Cased:	94	Legal Twn:	20N
Qual Const Data:	G	Rng:	E20
Qual Lith Data:	G	Legal Rng:	20E
Gravel Pack Top:		Sec:	19
Gravel Pack Bot:		Sec Quarters:	DB
Gravel Packed:		Legal Quarters:	NW SE

Wells and Additional Sources Detail Report

Top Perf:	73	Quarters Seq:	
Bottom Perf:	94	Latitude:	39.58388900756836
Perf Intervals:	1	Longitude:	119.7763900756836
Casing Diameter:	2.0	Lat Long Src:	NV003
Casing Reductions:	0	Lat Long Acc:	M
Update User ID:	KEITEN	Utm X:	261552.10447144
Date Entry:	05/12/2004	Utm Y:	4385048.31451715
Date Update:	05/19/2004	Remarks Add:	
Date Cmpl Acc:	D		
Owner Address:	SUN VALLEY (WASHOE COUNTY ENGINEERS)		
Contractor Addr:	2255 GLENDALE SPARKS		
Remarks:			

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
42	SE	0.70	3,670.66	4,645.09	WATER WELLS

Well Log:	4128	Notice of Intent:	0
Waiver No:		Yield:	5.0
Sequence No:	82207	Drawdown:	
Date Log Rcvd Acc:	D	Hours Pumped:	
Date Log Rcvd:	06/27/1958	Static WI:	25.0
Well Start Date:	04/19/1958	Temperature:	
Well Finish Date:	04/20/1958	Ref:	MD
Edit Status:	F	App:	
Site Type Code:	N	Source Agency:	NV003
Site Type Desc:	New	Owner No:	
Work Type Code:	N	Owner Current:	ARTLIP, ELVA
Work Type Desc:	New	Driller Lic No:	287
Work Type Rmks:		Contractor Lic No:	287
Prop Use Code:	D	Contractor Drlr No:	
Prop Use Desc:	Dewater	Contractor Name:	M ARTLIP
Drilling Mthd Code:	C	User ID:	SCOX
Drilling Mthd Desc:	Cable tool	Parcel No:	
Test Method Code:	U	Lot No:	
Test Mthd Desc:	Unknown	Block No:	
Aquifer Desc:		Subdivision Name:	
Depth Seal:		SC:	32031
Depth Drilled:	58	HA:	086
Depth Bedrock:		Twn:	N20
Depth Cased:	58	Legal Twn:	20N
Qual Const Data:	G	Rng:	E20
Qual Lith Data:	G	Legal Rng:	20E
Gravel Pack Top:		Sec:	19
Gravel Pack Bot:		Sec Quarters:	DC
Gravel Packed:		Legal Quarters:	SW SE
Top Perf:	40	Quarters Seq:	

Wells and Additional Sources Detail Report

Bottom Perf:	58	Latitude:	39.58027648925781
Perf Intervals:	1	Longitude:	119.7763900756836
Casing Diameter:	6.0	Lat Long Src:	NV003
Casing Reductions:	0	Lat Long Acc:	M
Update User ID:		Utm X:	261539.718006255
Date Entry:	05/12/2004	Utm Y:	4384647.4635262
Date Update:		Remarks Add:	
Date Cmpl Acc:	D		
Owner Address:	138 CARROL DR SUN VALLEY		
Contractor Addr:	SUN VALLEY		
Remarks:			

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
42	SE	0.70	3,670.66	4,645.09	WATER WELLS

Well Log:	805	Notice of Intent:	0
Waiver No:		Yield:	
Sequence No:	82248	Drawdown:	
Date Log Rcvd Acc:	D	Hours Pumped:	
Date Log Rcvd:	02/10/1949	Static Wl:	10.0
Well Start Date:	10/10/1948	Temperature:	
Well Finish Date:		Ref:	MD
Edit Status:	F	App:	
Site Type Code:	N	Source Agency:	NV003
Site Type Desc:	New	Owner No:	
Work Type Code:	N	Owner Current:	GODDARD, DEAN
Work Type Desc:	New	Driller Lic No:	
Work Type Rmks:		Contractor Lic No:	
Prop Use Code:	I	Contractor Drlr No:	
Prop Use Desc:	Irrigation	Contractor Name:	
Drilling Mthd Code:	D	User ID:	SCOX
Drilling Mthd Desc:	Dug	Parcel No:	
Test Method Code:		Lot No:	
Test Mthd Desc:		Block No:	
Aquifer Desc:		Subdivision Name:	
Depth Seal:		SC:	32031
Depth Drilled:	12	HA:	086
Depth Bedrock:		Twn:	N20
Depth Cased:		Legal Twn:	20N
Qual Const Data:	G	Rng:	E20
Qual Lith Data:	G	Legal Rng:	20E
Gravel Pack Top:		Sec:	19
Gravel Pack Bot:		Sec Quarters:	DC
Gravel Packed:		Legal Quarters:	SW SE
Top Perf:		Quarters Seq:	
Bottom Perf:		Latitude:	39.58027648925781

Wells and Additional Sources Detail Report

Perf Intervals:	1	Longitude:	119.7763900756836
Casing Diameter:		Lat Long Src:	NV003
Casing Reductions:	0	Lat Long Acc:	M
Update User ID:		Utm X:	261539.718006255
Date Entry:	05/12/2004	Utm Y:	4384647.4635262
Date Update:		Remarks Add:	
Date Cmpl Acc:			
Owner Address:			
Contractor Addr:			
Remarks:	PROPOSED USE=DOMESTIC		

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
42	SE	0.70	3,670.66	4,645.09	WATER WELLS

Well Log:	806	Notice of Intent:	0
Waiver No:		Yield:	
Sequence No:	82247	Drawdown:	
Date Log Rcvd Acc:	D	Hours Pumped:	
Date Log Rcvd:	02/10/1949	Static Wl:	8.0
Well Start Date:	02/10/1948	Temperature:	
Well Finish Date:		Ref:	MD
Edit Status:	F	App:	
Site Type Code:	N	Source Agency:	NV003
Site Type Desc:	New	Owner No:	
Work Type Code:	N	Owner Current:	ROGERS, KENNETH J
Work Type Desc:	New	Driller Lic No:	
Work Type Rmks:		Contractor Lic No:	
Prop Use Code:	I	Contractor Drlr No:	
Prop Use Desc:	Irrigation	Contractor Name:	
Drilling Mthd Code:	D	User ID:	SCOX
Drilling Mthd Desc:	Dug	Parcel No:	
Test Method Code:		Lot No:	
Test Mthd Desc:		Block No:	
Aquifer Desc:		Subdivision Name:	
Depth Seal:		SC:	32031
Depth Drilled:	14	HA:	086
Depth Bedrock:		Twn:	N20
Depth Cased:		Legal Twn:	20N
Qual Const Data:	G	Rng:	E20
Qual Lith Data:	G	Legal Rng:	20E
Gravel Pack Top:		Sec:	19
Gravel Pack Bot:		Sec Quarters:	DC
Gravel Packed:		Legal Quarters:	SW SE
Top Perf:		Quarters Seq:	
Bottom Perf:		Latitude:	39.58027648925781
Perf Intervals:	1	Longitude:	119.7763900756836

Wells and Additional Sources Detail Report

Casing Diameter:		Lat Long Src:	NV003
Casing Reductions:	0	Lat Long Acc:	M
Update User ID:		Utm X:	261539.718006255
Date Entry:	05/12/2004	Utm Y:	4384647.4635262
Date Update:		Remarks Add:	
Date Cmpl Acc:			
Owner Address:			
Contractor Addr:			
Remarks:	PROPOSED USE=DOMESTIC		

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
43	NNW	0.70	3,674.42	5,025.74	WATER WELLS

Well Log:	47929	Notice of Intent:	27266
Waiver No:		Yield:	21.0
Sequence No:	23688	Drawdown:	
Date Log Rcvd Acc:	D	Hours Pumped:	
Date Log Rcvd:	04/07/1995	Static Wl:	116.0
Well Start Date:	04/03/1995	Temperature:	
Well Finish Date:	04/04/1995	Ref:	MD
Edit Status:	F	App:	
Site Type Code:	N	Source Agency:	NV003
Site Type Desc:	New	Owner No:	
Work Type Code:	N	Owner Current:	THOMPSON, RON
Work Type Desc:	New	Driller Lic No:	923
Work Type Rmks:		Contractor Lic No:	22549
Prop Use Code:	H	Contractor Drlr No:	
Prop Use Desc:	Domestic	Contractor Name:	WAYNE DRILLING INC
Drilling Mthd Code:	A	User ID:	BJFOSTER
Drilling Mthd Desc:	Air Rotary	Parcel No:	088-210-33
Test Method Code:	A	Lot No:	
Test Mthd Desc:	Air Lift	Block No:	
Aquifer Desc:		Subdivision Name:	
Depth Seal:	50	SC:	32031
Depth Drilled:	250	HA:	086
Depth Bedrock:		Twn:	N20
Depth Cased:	250	Legal Twn:	20N
Qual Const Data:	G	Rng:	E19
Qual Lith Data:	G	Legal Rng:	19E
Gravel Pack Top:	50	Sec:	13
Gravel Pack Bot:	250	Sec Quarters:	BD
Gravel Packed:	Y	Legal Quarters:	SE NW
Top Perf:	205	Quarters Seq:	
Bottom Perf:	245	Latitude:	39.60194396972656
Perf Intervals:	1	Longitude:	119.79944610595703
Casing Diameter:	6.62	Lat Long Src:	NV003

Wells and Additional Sources Detail Report

Casing Reductions:	0	Lat Long Acc:	T
Update User ID:		Utm X:	259634.16118687883
Date Entry:	08/09/1995	Utm Y:	4387114.031997835
Date Update:		Remarks Add:	
Date Cmpl Acc:	D		
Owner Address:	BILLER LANE SPARKS NV		
Contractor Addr:	P O BOX 12370 RENO NV 89510		
Remarks:			

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
44	ENE	0.70	3,702.48	4,717.05	WATER WELLS

Well Log:	4912	Notice of Intent:	0
Waiver No:		Yield:	15.0
Sequence No:	82134	Drawdown:	
Date Log Rcvd Acc:	D	Hours Pumped:	
Date Log Rcvd:	11/10/1959	Static Wl:	43.0
Well Start Date:	03/13/1959	Temperature:	50.0
Well Finish Date:	03/16/1959	Ref:	MD
Edit Status:	F	App:	
Site Type Code:	N	Source Agency:	NV003
Site Type Desc:	New	Owner No:	
Work Type Code:	N	Owner Current:	COOK, MR
Work Type Desc:	New	Driller Lic No:	3692
Work Type Rmks:		Contractor Lic No:	3692
Prop Use Code:	H	Contractor Drlr No:	
Prop Use Desc:	Domestic	Contractor Name:	J N PITCHER COMPANY
Drilling Mthd Code:	C	User ID:	SCOX
Drilling Mthd Desc:	Cable tool	Parcel No:	
Test Method Code:	B	Lot No:	
Test Mthd Desc:	Bucket	Block No:	
Aquifer Desc:		Subdivision Name:	
Depth Seal:		SC:	32031
Depth Drilled:	80	HA:	086
Depth Bedrock:		Twn:	N20
Depth Cased:	80	Legal Twn:	20N
Qual Const Data:	G	Rng:	E20
Qual Lith Data:	G	Legal Rng:	20E
Gravel Pack Top:		Sec:	18
Gravel Pack Bot:		Sec Quarters:	DC
Gravel Packed:		Legal Quarters:	SW SE
Top Perf:	57	Quarters Seq:	
Bottom Perf:	80	Latitude:	39.594722747802734
Perf Intervals:	1	Longitude:	119.7763900756836
Casing Diameter:	6.0	Lat Long Src:	NV003
Casing Reductions:	0	Lat Long Acc:	M

Wells and Additional Sources Detail Report

Update User ID:	SCOX	Utm X:	261589.269568145
Date Entry:	05/12/2004	Utm Y:	4386250.86865456
Date Update:	05/12/2004	Remarks Add:	
Date Cmpl Acc:	D		
Owner Address:	SUN VALLEY		
Contractor Addr:	190 MOANA LANE RENO		
Remarks:			

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
44	ENE	0.70	3,702.48	4,717.05	WATER WELLS

Well Log:	4837	Notice of Intent:	0
Waiver No:		Yield:	30.0
Sequence No:	82138	Drawdown:	118.0
Date Log Rcvd Acc:	D	Hours Pumped:	
Date Log Rcvd:	09/28/1959	Static WI:	28.0
Well Start Date:	08/14/1959	Temperature:	
Well Finish Date:	08/17/1959	Ref:	MD
Edit Status:	F	App:	
Site Type Code:	N	Source Agency:	NV003
Site Type Desc:	New	Owner No:	
Work Type Code:	N	Owner Current:	STRONG, ED
Work Type Desc:	New	Driller Lic No:	208
Work Type Rmks:		Contractor Lic No:	208
Prop Use Code:	H	Contractor Drlr No:	
Prop Use Desc:	Domestic	Contractor Name:	A & B CONTRACTORS
Drilling Mthd Code:	C	User ID:	SCOX
Drilling Mthd Desc:	Cable tool	Parcel No:	
Test Method Code:	B	Lot No:	
Test Mthd Desc:	Bucket	Block No:	
Aquifer Desc:		Subdivision Name:	
Depth Seal:		SC:	32031
Depth Drilled:	158	HA:	086
Depth Bedrock:		Twn:	N20
Depth Cased:	158	Legal Twn:	20N
Qual Const Data:	G	Rng:	E20
Qual Lith Data:	G	Legal Rng:	20E
Gravel Pack Top:		Sec:	18
Gravel Pack Bot:		Sec Quarters:	DC
Gravel Packed:		Legal Quarters:	SW SE
Top Perf:	118	Quarters Seq:	
Bottom Perf:	158	Latitude:	39.594722747802734
Perf Intervals:	1	Longitude:	119.7763900756836
Casing Diameter:	6.0	Lat Long Src:	NV003
Casing Reductions:	0	Lat Long Acc:	M
Update User ID:	SCOX	Utm X:	261589.269568145

Wells and Additional Sources Detail Report

Date Entry:	05/12/2004	Utm Y:	4386250.86865456
Date Update:	05/12/2004	Remarks Add:	
Date Cmpl Acc:	D		
Owner Address:	SUN VALLEY DR SUN VALLEY		
Contractor Addr:	SUN VALLEY		
Remarks:			

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
44	ENE	0.70	3,702.48	4,717.05	WATER WELLS

Well Log:	6231	Notice of Intent:	0
Waiver No:		Yield:	20.0
Sequence No:	82115	Drawdown:	20.0
Date Log Rcvd Acc:	D	Hours Pumped:	
Date Log Rcvd:	11/03/1961	Static Wl:	39.0
Well Start Date:		Temperature:	
Well Finish Date:		Ref:	MD
Edit Status:	F	App:	
Site Type Code:	N	Source Agency:	NV003
Site Type Desc:	New	Owner No:	
Work Type Code:	N	Owner Current:	MORROW, GORDON
Work Type Desc:	New	Driller Lic No:	343
Work Type Rmks:		Contractor Lic No:	6538
Prop Use Code:	H	Contractor Drlr No:	
Prop Use Desc:	Domestic	Contractor Name:	A & B CONTRACTORS
Drilling Mthd Code:	C	User ID:	SCOX
Drilling Mthd Desc:	Cable tool	Parcel No:	
Test Method Code:	U	Lot No:	
Test Mthd Desc:	Unknown	Block No:	
Aquifer Desc:		Subdivision Name:	
Depth Seal:		SC:	32031
Depth Drilled:	101	HA:	086
Depth Bedrock:		Twn:	N20
Depth Cased:	101	Legal Twn:	20N
Qual Const Data:	G	Rng:	E20
Qual Lith Data:	G	Legal Rng:	20E
Gravel Pack Top:		Sec:	18
Gravel Pack Bot:		Sec Quarters:	DC
Gravel Packed:		Legal Quarters:	SW SE
Top Perf:	61	Quarters Seq:	
Bottom Perf:	101	Latitude:	39.594722747802734
Perf Intervals:	1	Longitude:	119.7763900756836
Casing Diameter:	6.0	Lat Long Src:	NV003
Casing Reductions:	0	Lat Long Acc:	M
Update User ID:	MDILLON	Utm X:	261589.269568145
Date Entry:	05/11/2004	Utm Y:	4386250.86865456

Wells and Additional Sources Detail Report

Date Update: 06/01/2004 Remarks Add:
 Date Cmpl Acc:
 Owner Address: SUN VALLEY
 Contractor Addr: SUN VALLEY
 Remarks:

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
44	ENE	0.70	3,702.48	4,717.05	WATER WELLS

Well Log: 5187	Notice of Intent: 0
Waiver No:	Yield: 20.0
Sequence No: 82130	Drawdown: 5.0
Date Log Rcvd Acc: D	Hours Pumped:
Date Log Rcvd: 05/23/1960	Static Wl: 32.0
Well Start Date: 03/23/1960	Temperature:
Well Finish Date: 03/25/1960	Ref: MD
Edit Status: F	App:
Site Type Code: E	Source Agency: NV003
Site Type Desc: Existing (Deepen)	Owner No:
Work Type Code: D	Owner Current: DOLINSKI, ADAM
Work Type Desc: Deepen	Driller Lic No: 287
Work Type Rmks:	Contractor Lic No: 287
Prop Use Code: H	Contractor Drlr No:
Prop Use Desc: Domestic	Contractor Name: A & B CONTRACTORS
Drilling Mthd Code: C	User ID: SCOX
Drilling Mthd Desc: Cable tool	Parcel No:
Test Method Code: B	Lot No:
Test Mthd Desc: Bucket	Block No:
Aquifer Desc:	Subdivision Name:
Depth Seal:	SC: 32031
Depth Drilled: 80	HA: 086
Depth Bedrock:	Twn: N20
Depth Cased: 80	Legal Twn: 20N
Qual Const Data: G	Rng: E20
Qual Lith Data: G	Legal Rng: 20E
Gravel Pack Top:	Sec: 18
Gravel Pack Bot:	Sec Quarters: DC
Gravel Packed:	Legal Quarters: SW SE
Top Perf: 60	Quarters Seq:
Bottom Perf: 75	Latitude: 39.594722747802734
Perf Intervals: 1	Longitude: 119.7763900756836
Casing Diameter: 6.625	Lat Long Src: NV003
Casing Reductions: 0	Lat Long Acc: M
Update User ID: MDILLON	Utm X: 261589.269568145
Date Entry: 05/11/2004	Utm Y: 4386250.86865456
Date Update: 05/28/2004	Remarks Add:

Wells and Additional Sources Detail Report

Date Cmpl Acc: D
 Owner Address: E 3RD AVE SUN VALLEY
 Contractor Addr: SUN VALLEY
 Remarks:

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
44	ENE	0.70	3,702.48	4,717.05	WATER WELLS

Well Log: 6235	Notice of Intent: 0
Waiver No:	Yield: 15.0
Sequence No: 82113	Drawdown: 60.0
Date Log Rcvd Acc: D	Hours Pumped:
Date Log Rcvd: 11/03/1961	Static WI: 42.0
Well Start Date: 01/17/1961	Temperature:
Well Finish Date: 01/18/1961	Ref: MD
Edit Status: F	App:
Site Type Code: N	Source Agency: NV003
Site Type Desc: New	Owner No:
Work Type Code: N	Owner Current: DIMICK, LEE
Work Type Desc: New	Driller Lic No: 343
Work Type Rmks:	Contractor Lic No: 6538
Prop Use Code: H	Contractor Drlr No:
Prop Use Desc: Domestic	Contractor Name: A & B CONTRACTORS
Drilling Mthd Code: C	User ID: SCOX
Drilling Mthd Desc: Cable tool	Parcel No:
Test Method Code: U	Lot No:
Test Mthd Desc: Unknown	Block No:
Aquifer Desc:	Subdivision Name:
Depth Seal:	SC: 32031
Depth Drilled: 105	HA: 086
Depth Bedrock:	Twn: N20
Depth Cased: 101	Legal Twn: 20N
Qual Const Data: G	Rng: E20
Qual Lith Data: G	Legal Rng: 20E
Gravel Pack Top:	Sec: 18
Gravel Pack Bot:	Sec Quarters: DC
Gravel Packed:	Legal Quarters: SW SE
Top Perf: 66	Quarters Seq:
Bottom Perf: 101	Latitude: 39.594722747802734
Perf Intervals: 1	Longitude: 119.7763900756836
Casing Diameter: 6.0	Lat Long Src: NV003
Casing Reductions: 0	Lat Long Acc: M
Update User ID: SCOX	Utm X: 261589.269568145
Date Entry: 05/11/2004	Utm Y: 4386250.86865456
Date Update: 06/01/2004	Remarks Add:
Date Cmpl Acc: D	

Wells and Additional Sources Detail Report

Owner Address: 5TH AVE SUN VALLEY
 Contractor Addr: SUN VALLEY
 Remarks:

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
44	ENE	0.70	3,702.48	4,717.05	WATER WELLS

Well Log:	4842	Notice of Intent:	0
Waiver No:		Yield:	20.0
Sequence No:	82136	Drawdown:	30.0
Date Log Rcvd Acc:	D	Hours Pumped:	
Date Log Rcvd:	09/28/1959	Static Wl:	60.0
Well Start Date:	08/17/1959	Temperature:	
Well Finish Date:	08/17/1959	Ref:	MD
Edit Status:	F	App:	
Site Type Code:	N	Source Agency:	NV003
Site Type Desc:	New	Owner No:	
Work Type Code:	N	Owner Current:	LUND, FREDRICK F
Work Type Desc:	New	Driller Lic No:	208
Work Type Rmks:		Contractor Lic No:	287
Prop Use Code:	H	Contractor Drlr No:	
Prop Use Desc:	Domestic	Contractor Name:	A & B CONTRACRORS
Drilling Mthd Code:	C	User ID:	SCOX
Drilling Mthd Desc:	Cable tool	Parcel No:	
Test Method Code:	B	Lot No:	
Test Mthd Desc:	Bucket	Block No:	
Aquifer Desc:		Subdivision Name:	
Depth Seal:		SC:	32031
Depth Drilled:	123	HA:	086
Depth Bedrock:		Twn:	N20
Depth Cased:	120	Legal Twn:	20N
Qual Const Data:	G	Rng:	E20
Qual Lith Data:	G	Legal Rng:	20E
Gravel Pack Top:		Sec:	18
Gravel Pack Bot:		Sec Quarters:	DC
Gravel Packed:		Legal Quarters:	SW SE
Top Perf:	85	Quarters Seq:	
Bottom Perf:	120	Latitude:	39.594722747802734
Perf Intervals:	1	Longitude:	119.7763900756836
Casing Diameter:	6.625	Lat Long Src:	NV003
Casing Reductions:	0	Lat Long Acc:	M
Update User ID:	SCOX	Utm X:	261589.269568145
Date Entry:	05/12/2004	Utm Y:	4386250.86865456
Date Update:	05/12/2004	Remarks Add:	
Date Cmpl Acc:	D		
Owner Address:	22 E 6TH AVE SUN VALLEY		

Wells and Additional Sources Detail Report

Contractor Addr: SUN VALLEY
 Remarks:

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
44	ENE	0.70	3,702.48	4,717.05	WATER WELLS

Well Log:	3768	Notice of Intent:	0
Waiver No:		Yield:	28.0
Sequence No:	82147	Drawdown:	80.0
Date Log Rcvd Acc:	D	Hours Pumped:	
Date Log Rcvd:	05/10/1957	Static Wl:	45.0
Well Start Date:	04/12/1957	Temperature:	62.0
Well Finish Date:	04/13/1957	Ref:	MD
Edit Status:	F	App:	
Site Type Code:	N	Source Agency:	NV003
Site Type Desc:	New	Owner No:	
Work Type Code:	N	Owner Current:	RICHARDS, LAWRENCE
Work Type Desc:	New	Driller Lic No:	265
Work Type Rmks:		Contractor Lic No:	265
Prop Use Code:	H	Contractor Drlr No:	
Prop Use Desc:	Domestic	Contractor Name:	J N PITCHER CO
Drilling Mthd Code:	C	User ID:	SCOX
Drilling Mthd Desc:	Cable tool	Parcel No:	
Test Method Code:	B	Lot No:	
Test Mthd Desc:	Bucket	Block No:	
Aquifer Desc:		Subdivision Name:	
Depth Seal:		SC:	32031
Depth Drilled:	92	HA:	086
Depth Bedrock:		Twn:	N20
Depth Cased:	92	Legal Twn:	20N
Qual Const Data:	G	Rng:	E20
Qual Lith Data:	G	Legal Rng:	20E
Gravel Pack Top:		Sec:	18
Gravel Pack Bot:		Sec Quarters:	DC
Gravel Packed:		Legal Quarters:	SW SE
Top Perf:	52	Quarters Seq:	
Bottom Perf:	90	Latitude:	39.594722747802734
Perf Intervals:	1	Longitude:	119.7763900756836
Casing Diameter:	6.125	Lat Long Src:	NV003
Casing Reductions:	0	Lat Long Acc:	M
Update User ID:	SCOX	Utm X:	261589.269568145
Date Entry:	05/12/2004	Utm Y:	4386250.86865456
Date Update:	05/12/2004	Remarks Add:	
Date Cmpl Acc:	D		
Owner Address:	3RD & CARROLL		
Contractor Addr:	190 MOANA LANE		

Wells and Additional Sources Detail Report

Remarks:

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
45	NNW	0.71	3,725.81	5,026.94	WATER WELLS

Well Log:	126823	Notice of Intent:	73214
Waiver No:		Yield:	30.0
Sequence No:	127029	Drawdown:	
Date Log Rcvd Acc:	D	Hours Pumped:	2.0
Date Log Rcvd:	12/15/2016	Static Wl:	92.0
Well Start Date:	11/21/2016	Temperature:	49.0
Well Finish Date:	11/22/2016	Ref:	MD
Edit Status:	F	App:	
Site Type Code:	N	Source Agency:	NV003
Site Type Desc:	New	Owner No:	
Work Type Code:	N	Owner Current:	HOMAR CONTRERAS
Work Type Desc:	New	Driller Lic No:	1790
Work Type Rmks:		Contractor Lic No:	23096
Prop Use Code:	H	Contractor Drlr No:	
Prop Use Desc:	Domestic	Contractor Name:	BRUCE MACKAY PUMP & WELL SERVICE INC MWSCOTT
Drilling Mthd Code:	A	User ID:	
Drilling Mthd Desc:	Air Rotary	Parcel No:	088-210-23
Test Method Code:	A	Lot No:	
Test Mthd Desc:	Air Lift	Block No:	
Aquifer Desc:		Subdivision Name:	
Depth Seal:	54	SC:	32031
Depth Drilled:	250	HA:	086
Depth Bedrock:		Twn:	N20
Depth Cased:	250	Legal Twn:	20N
Qual Const Data:	G	Rng:	E19
Qual Lith Data:	G	Legal Rng:	19E
Gravel Pack Top:	54	Sec:	13
Gravel Pack Bot:	250	Sec Quarters:	BD
Gravel Packed:	Y	Legal Quarters:	SE NW
Top Perf:	190	Quarters Seq:	
Bottom Perf:	230	Latitude:	39.60249
Perf Intervals:	1	Longitude:	119.798086
Casing Diameter:	6.625	Lat Long Src:	
Casing Reductions:	0	Lat Long Acc:	
Update User ID:		Utm X:	259752.704224396
Date Entry:	01/04/2017	Utm Y:	4387170.95635603
Date Update:		Remarks Add:	
Date Cmpl Acc:	D		
Owner Address:	5710 JIM DENNING WAY		
Contractor Addr:	1600 MT ROSE HWY RENO NV 89511		
Remarks:			

Wells and Additional Sources Detail Report

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
46	ESE	0.72	3,828.00	4,652.65	WATER WELLS

Well Log:	125136	Notice of Intent:	67297
Waiver No:	R-920	Yield:	
Sequence No:	125252	Drawdown:	
Date Log Rcvd Acc:	D	Hours Pumped:	
Date Log Rcvd:	07/05/2016	Static Wl:	2.0
Well Start Date:	06/23/2016	Temperature:	
Well Finish Date:	06/23/2016	Ref:	MD
Edit Status:	F	App:	
Site Type Code:	E	Source Agency:	NV003
Site Type Desc:	Existing (Deepen)	Owner No:	
Work Type Code:	P	Owner Current:	JAURON FAMILY LLC
Work Type Desc:	Plug or Abandonment	Driller Lic No:	2205
Work Type Rmks:	PLUGGING UNKNOWN WELL LOG	Contractor Lic No:	74720
Prop Use Code:	H	Contractor Drlr No:	
Prop Use Desc:	Domestic	Contractor Name:	FUNDIN PUMP & WELL SERVICE
Drilling Mthd Code:	Z	User ID:	RRANSDELL
Drilling Mthd Desc:	Other (explain in remarks)	Parcel No:	085-852-14
Test Method Code:		Lot No:	
Test Mthd Desc:		Block No:	
Aquifer Desc:		Subdivision Name:	
Depth Seal:	78	SC:	32031
Depth Drilled:	78	HA:	086
Depth Bedrock:		Twn:	N20
Depth Cased:	78	Legal Twn:	20N
Qual Const Data:	G	Rng:	E20
Qual Lith Data:	G	Legal Rng:	20E
Gravel Pack Top:		Sec:	19
Gravel Pack Bot:		Sec Quarters:	DC
Gravel Packed:	N	Legal Quarters:	SW SE
Top Perf:		Quarters Seq:	
Bottom Perf:		Latitude:	39.580589
Perf Intervals:	1	Longitude:	119.775777
Casing Diameter:	2.0	Lat Long Src:	
Casing Reductions:	0	Lat Long Acc:	
Update User ID:		Utm X:	261593.347371609
Date Entry:	07/13/2016	Utm Y:	4384680.3867532
Date Update:		Remarks Add:	
Date Cmpl Acc:	D		
Owner Address:	5160 CAROL ST SUN VALLEY		
Contractor Addr:	4030 EASTLAKE BLVD WASHOE VALLEY NV 89704		
Remarks:			

Wells and Additional Sources Detail Report

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
49	N	0.75	3,971.51	5,040.74	WATER WELLS

Well Log:	33723	Notice of Intent:	15570
Waiver No:		Yield:	
Sequence No:	9440	Drawdown:	
Date Log Rcvd Acc:	D	Hours Pumped:	
Date Log Rcvd:	06/19/1990	Static Wl:	70.0
Well Start Date:		Temperature:	
Well Finish Date:	06/06/1990	Ref:	MD
Edit Status:	F	App:	
Site Type Code:	E	Source Agency:	NV003
Site Type Desc:	Existing (Deepen)	Owner No:	
Work Type Code:	D	Owner Current:	PFENNIG, IVAN
Work Type Desc:	Deepen	Driller Lic No:	1511
Work Type Rmks:		Contractor Lic No:	15291
Prop Use Code:	H	Contractor Drlr No:	1132
Prop Use Desc:	Domestic	Contractor Name:	AQUA DRILLING & WELL SERVICE
Drilling Mthd Code:	R	User ID:	AVTYPER
Drilling Mthd Desc:	Reverse rotary	Parcel No:	88-220-29
Test Method Code:	C	Lot No:	
Test Mthd Desc:	Centrifugal Pump	Block No:	
Aquifer Desc:		Subdivision Name:	SUN VALLEY
Depth Seal:		SC:	32031
Depth Drilled:	245	HA:	086
Depth Bedrock:		Twn:	N20
Depth Cased:	245	Legal Twn:	20N
Qual Const Data:	G	Rng:	E19
Qual Lith Data:	G	Legal Rng:	19E
Gravel Pack Top:	0	Sec:	13
Gravel Pack Bot:	0	Sec Quarters:	A
Gravel Packed:	N	Legal Quarters:	NE
Top Perf:	205	Quarters Seq:	
Bottom Perf:	245	Latitude:	39.60361099243164
Perf Intervals:	1	Longitude:	119.79249572753906
Casing Diameter:	6.62	Lat Long Src:	NV003
Casing Reductions:	1	Lat Long Acc:	M
Update User ID:		Utm X:	260236.26692507023
Date Entry:		Utm Y:	4387280.475607275
Date Update:		Remarks Add:	
Date Cmpl Acc:	D		
Owner Address:	461 WEST 7TH AVE SUN VALLEY NV		
Contractor Addr:	625 SPICE ISL DR STE L SPARKS		
Remarks:			

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
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Wells and Additional Sources Detail Report

50 NE 0.76 4,012.96 4,767.80 WATER WELLS

Well Log:	4871	Notice of Intent:	0
Waiver No:		Yield:	10.0
Sequence No:	82135	Drawdown:	
Date Log Rcvd Acc:	D	Hours Pumped:	
Date Log Rcvd:	10/12/1959	Static WI:	
Well Start Date:	10/08/1958	Temperature:	55.0
Well Finish Date:	10/13/1958	Ref:	MD
Edit Status:	F	App:	
Site Type Code:	N	Source Agency:	NV003
Site Type Desc:	New	Owner No:	
Work Type Code:	N	Owner Current:	ATKINS, CHARLES
Work Type Desc:	New	Driller Lic No:	4507
Work Type Rmks:		Contractor Lic No:	4507
Prop Use Code:	H	Contractor Drlr No:	
Prop Use Desc:	Domestic	Contractor Name:	J N PITCHER COMPANY
Drilling Mthd Code:	C	User ID:	SCOX
Drilling Mthd Desc:	Cable tool	Parcel No:	
Test Method Code:	B	Lot No:	15
Test Mthd Desc:	Bucket	Block No:	A
Aquifer Desc:		Subdivision Name:	SUN VALLEY 4
Depth Seal:		SC:	32031
Depth Drilled:	118	HA:	086
Depth Bedrock:		Twn:	N20
Depth Cased:	118	Legal Twn:	20N
Qual Const Data:	G	Rng:	E20
Qual Lith Data:	G	Legal Rng:	20E
Gravel Pack Top:		Sec:	18
Gravel Pack Bot:		Sec Quarters:	
Gravel Packed:		Legal Quarters:	
Top Perf:	93	Quarters Seq:	
Bottom Perf:	118	Latitude:	39.599998474121094
Perf Intervals:	1	Longitude:	119.77861785888672
Casing Diameter:	6.0	Lat Long Src:	NV003
Casing Reductions:	0	Lat Long Acc:	M
Update User ID:	SCOX	Utm X:	261416.540947614
Date Entry:	05/12/2004	Utm Y:	4386842.63055856
Date Update:	05/12/2004	Remarks Add:	
Date Cmpl Acc:	D		
Owner Address:	2ND ST SUN VALLEY		
Contractor Addr:	190 MOANA LANE RENO NV		
Remarks:			

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
50	NE	0.76	4,012.96	4,767.80	WATER WELLS

Wells and Additional Sources Detail Report

Well Log:	8539	Notice of Intent:	0
Waiver No:		Yield:	
Sequence No:	82103	Drawdown:	
Date Log Rcvd Acc:	D	Hours Pumped:	
Date Log Rcvd:	06/18/1965	Static Wl:	46.0
Well Start Date:	06/22/1964	Temperature:	
Well Finish Date:	07/07/1964	Ref:	MD
Edit Status:	F	App:	
Site Type Code:	N	Source Agency:	NV003
Site Type Desc:	New	Owner No:	
Work Type Code:	N	Owner Current:	MC ANNICH, HOWARD
Work Type Desc:	New	Driller Lic No:	7373
Work Type Rmks:		Contractor Lic No:	446
Prop Use Code:	H	Contractor Drlr No:	
Prop Use Desc:	Domestic	Contractor Name:	THAIROL SESSIONS
Drilling Mthd Code:	C	User ID:	SCOX
Drilling Mthd Desc:	Cable tool	Parcel No:	
Test Method Code:		Lot No:	
Test Mthd Desc:		Block No:	
Aquifer Desc:		Subdivision Name:	
Depth Seal:		SC:	32031
Depth Drilled:	275	HA:	086
Depth Bedrock:		Twn:	N20
Depth Cased:	275	Legal Twn:	20N
Qual Const Data:	G	Rng:	E20
Qual Lith Data:	G	Legal Rng:	20E
Gravel Pack Top:		Sec:	18
Gravel Pack Bot:		Sec Quarters:	
Gravel Packed:		Legal Quarters:	
Top Perf:	245	Quarters Seq:	
Bottom Perf:	275	Latitude:	39.599998474121094
Perf Intervals:	1	Longitude:	119.77861785888672
Casing Diameter:	6.0	Lat Long Src:	NV003
Casing Reductions:	0	Lat Long Acc:	M
Update User ID:	SCOX	Utm X:	261416.540947614
Date Entry:	05/11/2004	Utm Y:	4386842.63055856
Date Update:	05/12/2004	Remarks Add:	
Date Cmpl Acc:	D		
Owner Address:	440 CHOCOLATE DR SUN VALLEY		
Contractor Addr:	148 E 6TH ST SUN VALLEY		
Remarks:			

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
50	NE	0.76	4,012.96	4,767.80	WATER WELLS

Wells and Additional Sources Detail Report

Well Log:	3398	Notice of Intent:	0
Waiver No:		Yield:	
Sequence No:	82150	Drawdown:	
Date Log Rcvd Acc:	D	Hours Pumped:	
Date Log Rcvd:	05/14/1956	Static Wl:	10.0
Well Start Date:	04/20/1956	Temperature:	
Well Finish Date:	04/21/1956	Ref:	MD
Edit Status:	F	App:	
Site Type Code:	N	Source Agency:	NV003
Site Type Desc:	New	Owner No:	
Work Type Code:	N	Owner Current:	POWERS, ROBERT
Work Type Desc:	New	Driller Lic No:	180
Work Type Rmks:		Contractor Lic No:	180
Prop Use Code:	H	Contractor Drlr No:	
Prop Use Desc:	Domestic	Contractor Name:	J W CUNNINGHAM
Drilling Mthd Code:	C	User ID:	SCOX
Drilling Mthd Desc:	Cable tool	Parcel No:	
Test Method Code:		Lot No:	
Test Mthd Desc:		Block No:	
Aquifer Desc:		Subdivision Name:	
Depth Seal:		SC:	32031
Depth Drilled:	75	HA:	086
Depth Bedrock:		Twn:	N20
Depth Cased:	75	Legal Twn:	20N
Qual Const Data:	G	Rng:	E20
Qual Lith Data:	G	Legal Rng:	20E
Gravel Pack Top:		Sec:	18
Gravel Pack Bot:		Sec Quarters:	
Gravel Packed:		Legal Quarters:	
Top Perf:	50	Quarters Seq:	
Bottom Perf:	75	Latitude:	39.599998474121094
Perf Intervals:	1	Longitude:	119.77861785888672
Casing Diameter:	6.0	Lat Long Src:	NV003
Casing Reductions:	0	Lat Long Acc:	M
Update User ID:	SCOX	Utm X:	261416.540947614
Date Entry:	05/12/2004	Utm Y:	4386842.63055856
Date Update:	05/12/2004	Remarks Add:	
Date Cmpl Acc:	D		
Owner Address:	HOME GARDNES		
Contractor Addr:	MOANA LANE RENO		
Remarks:			

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
50	NE	0.76	4,012.96	4,767.80	WATER WELLS

Well Log:	1252	Notice of Intent:	0
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Wells and Additional Sources Detail Report

Waiver No:		Yield:	3.0
Sequence No:	82160	Drawdown:	
Date Log Rcvd Acc:	D	Hours Pumped:	
Date Log Rcvd:	03/27/1950	Static Wl:	30.0
Well Start Date:	02/19/1950	Temperature:	
Well Finish Date:	02/20/1950	Ref:	MD
Edit Status:	F	App:	
Site Type Code:	N	Source Agency:	NV003
Site Type Desc:	New	Owner No:	
Work Type Code:	N	Owner Current:	RISLEY, JOHN
Work Type Desc:	New	Driller Lic No:	75
Work Type Rmks:		Contractor Lic No:	75
Prop Use Code:	H	Contractor Drlr No:	
Prop Use Desc:	Domestic	Contractor Name:	C C MOON
Drilling Mthd Code:	C	User ID:	SCOX
Drilling Mthd Desc:	Cable tool	Parcel No:	
Test Method Code:	B	Lot No:	8
Test Mthd Desc:	Bucket	Block No:	3
Aquifer Desc:		Subdivision Name:	SUN VALLEY 2
Depth Seal:		SC:	32031
Depth Drilled:	85	HA:	086
Depth Bedrock:		Twn:	N20
Depth Cased:	72	Legal Twn:	20N
Qual Const Data:	G	Rng:	E20
Qual Lith Data:	G	Legal Rng:	20E
Gravel Pack Top:		Sec:	18
Gravel Pack Bot:		Sec Quarters:	
Gravel Packed:		Legal Quarters:	
Top Perf:	40	Quarters Seq:	
Bottom Perf:	64	Latitude:	39.5999984741211
Perf Intervals:	1	Longitude:	119.778617858887
Casing Diameter:	6.0	Lat Long Src:	NV003
Casing Reductions:	0	Lat Long Acc:	M
Update User ID:	WFEREDAY	Utm X:	261415.956228594
Date Entry:	05/12/2004	Utm Y:	4386842.47910537
Date Update:	12/19/2018	Remarks Add:	
Date Cmpl Acc:	D		
Owner Address:	116 STANFORD WAY SPARKS		
Contractor Addr:	665 WEST ST		
Remarks:			

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
50	NE	0.76	4,012.96	4,767.80	WATER WELLS

Well Log:	8540	Notice of Intent:	0
Waiver No:		Yield:	

Wells and Additional Sources Detail Report

Sequence No:	82102	Drawdown:	
Date Log Rcvd Acc:	D	Hours Pumped:	
Date Log Rcvd:	06/18/1965	Static Wl:	50.0
Well Start Date:	11/05/1964	Temperature:	
Well Finish Date:	11/20/1964	Ref:	MD
Edit Status:	F	App:	
Site Type Code:	N	Source Agency:	NV003
Site Type Desc:	New	Owner No:	
Work Type Code:	N	Owner Current:	ROBERTS, ELMO
Work Type Desc:	New	Driller Lic No:	7373
Work Type Rmks:		Contractor Lic No:	446
Prop Use Code:	H	Contractor Drlr No:	
Prop Use Desc:	Domestic	Contractor Name:	THAIROL SESSIONS
Drilling Mthd Code:	C	User ID:	SCOX
Drilling Mthd Desc:	Cable tool	Parcel No:	
Test Method Code:		Lot No:	
Test Mthd Desc:		Block No:	
Aquifer Desc:		Subdivision Name:	
Depth Seal:		SC:	32031
Depth Drilled:	110	HA:	086
Depth Bedrock:		Twn:	N20
Depth Cased:	110	Legal Twn:	20N
Qual Const Data:	G	Rng:	E20
Qual Lith Data:	G	Legal Rng:	20E
Gravel Pack Top:		Sec:	18
Gravel Pack Bot:		Sec Quarters:	
Gravel Packed:		Legal Quarters:	
Top Perf:	90	Quarters Seq:	
Bottom Perf:	110	Latitude:	39.599998474121094
Perf Intervals:	1	Longitude:	119.77861785888672
Casing Diameter:	6.0	Lat Long Src:	NV003
Casing Reductions:	0	Lat Long Acc:	M
Update User ID:	SCOX	Utm X:	261416.540947614
Date Entry:	05/11/2004	Utm Y:	4386842.63055856
Date Update:	05/12/2004	Remarks Add:	
Date Cmpl Acc:	D		
Owner Address:	YUKON DR SUN VALLEY		
Contractor Addr:	148 E 6TH ST SUN VALLEY		
Remarks:			

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
50	NE	0.76	4,012.96	4,767.80	WATER WELLS

Well Log:	7841	Notice of Intent:	0
Waiver No:		Yield:	
Sequence No:	82105	Drawdown:	

Wells and Additional Sources Detail Report

Date Log Rcvd Acc:	D	Hours Pumped:	
Date Log Rcvd:	05/28/1964	Static Wl:	80.0
Well Start Date:	02/24/1964	Temperature:	
Well Finish Date:	03/10/1964	Ref:	MD
Edit Status:	F	App:	
Site Type Code:	N	Source Agency:	NV003
Site Type Desc:	New	Owner No:	
Work Type Code:	N	Owner Current:	PARKER, THOMAS L
Work Type Desc:	New	Driller Lic No:	359
Work Type Rmks:		Contractor Lic No:	359
Prop Use Code:	H	Contractor Drlr No:	
Prop Use Desc:	Domestic	Contractor Name:	R W GIBSON
Drilling Mthd Code:	C	User ID:	SCOX
Drilling Mthd Desc:	Cable tool	Parcel No:	
Test Method Code:		Lot No:	
Test Mthd Desc:		Block No:	
Aquifer Desc:		Subdivision Name:	
Depth Seal:		SC:	32031
Depth Drilled:	130	HA:	086
Depth Bedrock:		Twn:	N20
Depth Cased:	130	Legal Twn:	20N
Qual Const Data:	G	Rng:	E20
Qual Lith Data:	G	Legal Rng:	20E
Gravel Pack Top:		Sec:	18
Gravel Pack Bot:		Sec Quarters:	
Gravel Packed:		Legal Quarters:	
Top Perf:	100	Quarters Seq:	
Bottom Perf:	130	Latitude:	39.599998474121094
Perf Intervals:	1	Longitude:	119.77861785888672
Casing Diameter:	6.625	Lat Long Src:	NV003
Casing Reductions:	0	Lat Long Acc:	M
Update User ID:	SCOX	Utm X:	261416.540947614
Date Entry:	05/11/2004	Utm Y:	4386842.63055856
Date Update:	05/12/2004	Remarks Add:	
Date Cmpl Acc:	D		
Owner Address:	8TH AND KLONDIKE SUN VALLEY		
Contractor Addr:	465 SIDEHILL SUN VALLEY		
Remarks:			

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
50	NE	0.76	4,012.96	4,767.80	WATER WELLS

Well Log:	2597	Notice of Intent:	0
Waiver No:		Yield:	
Sequence No:	82153	Drawdown:	
Date Log Rcvd Acc:	D	Hours Pumped:	

Wells and Additional Sources Detail Report

Date Log Rcvd:	06/18/1954	Static WI:	
Well Start Date:	07/15/1953	Temperature:	
Well Finish Date:	07/22/1953	Ref:	MD
Edit Status:	F	App:	
Site Type Code:	N	Source Agency:	NV003
Site Type Desc:	New	Owner No:	
Work Type Code:	N	Owner Current:	SEIGI, R
Work Type Desc:	New	Driller Lic No:	29
Work Type Rmks:		Contractor Lic No:	29
Prop Use Code:	H	Contractor Drlr No:	
Prop Use Desc:	Domestic	Contractor Name:	JOHN CHAMPION
Drilling Mthd Code:	C	User ID:	SCOX
Drilling Mthd Desc:	Cable tool	Parcel No:	
Test Method Code:		Lot No:	
Test Mthd Desc:		Block No:	
Aquifer Desc:		Subdivision Name:	
Depth Seal:		SC:	32031
Depth Drilled:	140	HA:	086
Depth Bedrock:		Twn:	N20
Depth Cased:	140	Legal Twn:	20N
Qual Const Data:	G	Rng:	E20
Qual Lith Data:	G	Legal Rng:	20E
Gravel Pack Top:		Sec:	18
Gravel Pack Bot:		Sec Quarters:	
Gravel Packed:		Legal Quarters:	
Top Perf:	120	Quarters Seq:	
Bottom Perf:	140	Latitude:	39.599998474121094
Perf Intervals:	1	Longitude:	119.77861785888672
Casing Diameter:		Lat Long Src:	NV003
Casing Reductions:	0	Lat Long Acc:	M
Update User ID:	SCOX	Utm X:	261416.540947614
Date Entry:	05/12/2004	Utm Y:	4386842.63055856
Date Update:	05/12/2004	Remarks Add:	
Date Cmpl Acc:	D		
Owner Address:	SUN VALLEY		
Contractor Addr:	RTE 1 BOX 352		
Remarks:			

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
50	NE	0.76	4,012.96	4,767.80	WATER WELLS

Well Log:	7840	Notice of Intent:	0
Waiver No:		Yield:	
Sequence No:	82106	Drawdown:	
Date Log Rcvd Acc:	D	Hours Pumped:	
Date Log Rcvd:	05/28/1964	Static WI:	90.0

Wells and Additional Sources Detail Report

Well Start Date:	02/15/1964	Temperature:	
Well Finish Date:	02/22/1964	Ref:	MD
Edit Status:	F	App:	
Site Type Code:	N	Source Agency:	NV003
Site Type Desc:	New	Owner No:	
Work Type Code:	N	Owner Current:	THOLKE, WILLIAM
Work Type Desc:	New	Driller Lic No:	359
Work Type Rmks:		Contractor Lic No:	359
Prop Use Code:	H	Contractor Drlr No:	
Prop Use Desc:	Domestic	Contractor Name:	R W GIBSON
Drilling Mthd Code:	C	User ID:	SCOX
Drilling Mthd Desc:	Cable tool	Parcel No:	
Test Method Code:		Lot No:	
Test Mthd Desc:		Block No:	
Aquifer Desc:		Subdivision Name:	
Depth Seal:		SC:	32031
Depth Drilled:	150	HA:	086
Depth Bedrock:		Twn:	N20
Depth Cased:	150	Legal Twn:	20N
Qual Const Data:	G	Rng:	E20
Qual Lith Data:	G	Legal Rng:	20E
Gravel Pack Top:		Sec:	18
Gravel Pack Bot:		Sec Quarters:	
Gravel Packed:		Legal Quarters:	
Top Perf:	120	Quarters Seq:	
Bottom Perf:	150	Latitude:	39.599998474121094
Perf Intervals:	1	Longitude:	119.77861785888672
Casing Diameter:	6.0	Lat Long Src:	NV003
Casing Reductions:	0	Lat Long Acc:	M
Update User ID:	SCOX	Utm X:	261416.540947614
Date Entry:	05/11/2004	Utm Y:	4386842.63055856
Date Update:	05/12/2004	Remarks Add:	
Date Cmpl Acc:	D		
Owner Address:	275 LEON DR SUN VALLEY		
Contractor Addr:	465 SIDEHILL SUN VALLEY		
Remarks:			

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
50	NE	0.76	4,012.96	4,767.80	WATER WELLS

Well Log:	5645	Notice of Intent:	0
Waiver No:		Yield:	20.0
Sequence No:	82119	Drawdown:	
Date Log Rcvd Acc:	D	Hours Pumped:	
Date Log Rcvd:	01/20/1961	Static Wl:	30.0
Well Start Date:	01/01/1961	Temperature:	

Wells and Additional Sources Detail Report

Well Finish Date:	01/02/1961	Ref:	MD
Edit Status:	F	App:	
Site Type Code:	N	Source Agency:	NV003
Site Type Desc:	New	Owner No:	
Work Type Code:	N	Owner Current:	LIMKE, TED
Work Type Desc:	New	Driller Lic No:	334
Work Type Rmks:		Contractor Lic No:	334
Prop Use Code:	H	Contractor Drlr No:	
Prop Use Desc:	Domestic	Contractor Name:	THOLKE E PETERSON
Drilling Mthd Code:	C	User ID:	SCOX
Drilling Mthd Desc:	Cable tool	Parcel No:	
Test Method Code:	B	Lot No:	
Test Mthd Desc:	Bucket	Block No:	
Aquifer Desc:		Subdivision Name:	
Depth Seal:		SC:	32031
Depth Drilled:	108	HA:	086
Depth Bedrock:		Twn:	N20
Depth Cased:	108	Legal Twn:	20N
Qual Const Data:	G	Rng:	E20
Qual Lith Data:	G	Legal Rng:	20E
Gravel Pack Top:	30	Sec:	18
Gravel Pack Bot:	108	Sec Quarters:	
Gravel Packed:	Y	Legal Quarters:	
Top Perf:	35	Quarters Seq:	
Bottom Perf:	108	Latitude:	39.599998474121094
Perf Intervals:	1	Longitude:	119.77861785888672
Casing Diameter:	6.25	Lat Long Src:	NV003
Casing Reductions:	0	Lat Long Acc:	M
Update User ID:	MDILLON	Utm X:	261416.540947614
Date Entry:	05/11/2004	Utm Y:	4386842.63055856
Date Update:	06/01/2004	Remarks Add:	
Date Cmpl Acc:	D		
Owner Address:	455 SIDEHILL DR S V		
Contractor Addr:	BOX 663 SPARKS		
Remarks:			

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
50	NE	0.76	4,012.96	4,767.80	WATER WELLS

Well Log:	7577	Notice of Intent:	0
Waiver No:		Yield:	
Sequence No:	82110	Drawdown:	
Date Log Rcvd Acc:	D	Hours Pumped:	
Date Log Rcvd:	01/06/1964	Static Wl:	
Well Start Date:	06/28/1963	Temperature:	
Well Finish Date:	07/15/1963	Ref:	MD

Wells and Additional Sources Detail Report

Edit Status:	F	App:	
Site Type Code:	N	Source Agency:	NV003
Site Type Desc:	New	Owner No:	
Work Type Code:	N	Owner Current:	HILLER, ROBERT
Work Type Desc:	New	Driller Lic No:	359
Work Type Rmks:		Contractor Lic No:	359
Prop Use Code:	H	Contractor Drlr No:	
Prop Use Desc:	Domestic	Contractor Name:	R W GIBSON
Drilling Mthd Code:	C	User ID:	SCOX
Drilling Mthd Desc:	Cable tool	Parcel No:	
Test Method Code:		Lot No:	
Test Mthd Desc:		Block No:	
Aquifer Desc:		Subdivision Name:	
Depth Seal:		SC:	32031
Depth Drilled:	230	HA:	086
Depth Bedrock:		Twn:	N20
Depth Cased:	230	Legal Twn:	20N
Qual Const Data:	G	Rng:	E20
Qual Lith Data:	G	Legal Rng:	20E
Gravel Pack Top:		Sec:	18
Gravel Pack Bot:		Sec Quarters:	
Gravel Packed:		Legal Quarters:	
Top Perf:	190	Quarters Seq:	
Bottom Perf:	230	Latitude:	39.599998474121094
Perf Intervals:	1	Longitude:	119.77861785888672
Casing Diameter:	6.0	Lat Long Src:	NV003
Casing Reductions:	0	Lat Long Acc:	M
Update User ID:	SCOX	Utm X:	261416.540947614
Date Entry:	05/11/2004	Utm Y:	4386842.63055856
Date Update:	05/12/2004	Remarks Add:	
Date Cmpl Acc:	D		
Owner Address:	8TH & LEON SUN VALLEY		
Contractor Addr:			
Remarks:			

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
50	NE	0.76	4,012.96	4,767.80	WATER WELLS

Well Log:	1405	Notice of Intent:	0
Waiver No:		Yield:	20.0
Sequence No:	82158	Drawdown:	
Date Log Rcvd Acc:	D	Hours Pumped:	
Date Log Rcvd:	08/14/1950	Static WI:	33.0
Well Start Date:	05/14/1950	Temperature:	
Well Finish Date:	05/15/1950	Ref:	MD
Edit Status:	F	App:	

Wells and Additional Sources Detail Report

Site Type Code: N	Source Agency: NV003
Site Type Desc: New	Owner No:
Work Type Code: N	Owner Current: MCALLY, MR
Work Type Desc: New	Driller Lic No: 29
Work Type Rmks:	Contractor Lic No: 29
Prop Use Code: C	Contractor Drlr No:
Prop Use Desc: Commercial	Contractor Name: J CHAMPION
Drilling Mthd Code: C	User ID: SCOX
Drilling Mthd Desc: Cable tool	Parcel No:
Test Method Code: U	Lot No:
Test Mthd Desc: Unknown	Block No:
Aquifer Desc:	Subdivision Name:
Depth Seal:	SC: 32031
Depth Drilled: 90	HA: 086
Depth Bedrock:	Twn: N20
Depth Cased: 90	Legal Twn: 20N
Qual Const Data: G	Rng: E20
Qual Lith Data: G	Legal Rng: 20E
Gravel Pack Top:	Sec: 18
Gravel Pack Bot:	Sec Quarters:
Gravel Packed:	Legal Quarters:
Top Perf: 70	Quarters Seq:
Bottom Perf: 90	Latitude: 39.599998474121094
Perf Intervals: 1	Longitude: 119.77861785888672
Casing Diameter: 6.0	Lat Long Src: NV003
Casing Reductions: 0	Lat Long Acc: M
Update User ID: SCOX	Utm X: 261416.540947614
Date Entry: 05/12/2004	Utm Y: 4386842.63055856
Date Update: 05/12/2004	Remarks Add:
Date Cmpl Acc: D	
Owner Address: SUN VALLEY	
Contractor Addr: RT 1 BOX 352	
Remarks:	

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
50	NE	0.76	4,012.96	4,767.80	WATER WELLS

Well Log: 8548	Notice of Intent: 0
Waiver No:	Yield:
Sequence No: 82099	Drawdown:
Date Log Rcvd Acc: D	Hours Pumped:
Date Log Rcvd: 06/18/1965	Static Wl: 40.0
Well Start Date: 12/05/1964	Temperature:
Well Finish Date: 12/20/1964	Ref: MD
Edit Status: F	App:
Site Type Code: N	Source Agency: NV003

Wells and Additional Sources Detail Report

Site Type Desc:	New	Owner No:	
Work Type Code:	N	Owner Current:	HARTLEY, RAY
Work Type Desc:	New	Driller Lic No:	7373
Work Type Rmks:		Contractor Lic No:	
Prop Use Code:	H	Contractor Drlr No:	
Prop Use Desc:	Domestic	Contractor Name:	THAIROL SESSIONS
Drilling Mthd Code:	C	User ID:	SCOX
Drilling Mthd Desc:	Cable tool	Parcel No:	
Test Method Code:		Lot No:	
Test Mthd Desc:		Block No:	
Aquifer Desc:		Subdivision Name:	
Depth Seal:		SC:	32031
Depth Drilled:	110	HA:	086
Depth Bedrock:		Twn:	N20
Depth Cased:	110	Legal Twn:	20N
Qual Const Data:	G	Rng:	E20
Qual Lith Data:	G	Legal Rng:	20E
Gravel Pack Top:		Sec:	18
Gravel Pack Bot:		Sec Quarters:	
Gravel Packed:		Legal Quarters:	
Top Perf:	90	Quarters Seq:	
Bottom Perf:	110	Latitude:	39.599998474121094
Perf Intervals:	1	Longitude:	119.77861785888672
Casing Diameter:	6.0	Lat Long Src:	NV003
Casing Reductions:	0	Lat Long Acc:	M
Update User ID:	SCOX	Utm X:	261416.540947614
Date Entry:	05/11/2004	Utm Y:	4386842.63055856
Date Update:	05/12/2004	Remarks Add:	
Date Cmpl Acc:	D		
Owner Address:	SIDEHILL DR SUN VALLEY		
Contractor Addr:	148 E 6TH SUN VALLEY		
Remarks:			

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
50	NE	0.76	4,012.96	4,767.80	WATER WELLS

Well Log:	8541	Notice of Intent:	0
Waiver No:		Yield:	
Sequence No:	82101	Drawdown:	
Date Log Rcvd Acc:	D	Hours Pumped:	
Date Log Rcvd:	06/18/1965	Static WI:	190.0
Well Start Date:	06/01/1964	Temperature:	
Well Finish Date:	06/20/1964	Ref:	MD
Edit Status:	F	App:	
Site Type Code:	N	Source Agency:	NV003
Site Type Desc:	New	Owner No:	

Wells and Additional Sources Detail Report

Work Type Code:	N	Owner Current:	CROW, MITCHEL
Work Type Desc:	New	Driller Lic No:	7373
Work Type Rmks:		Contractor Lic No:	446
Prop Use Code:	H	Contractor Drlr No:	
Prop Use Desc:	Domestic	Contractor Name:	THAIROL SESSIONS
Drilling Mthd Code:	C	User ID:	SCOX
Drilling Mthd Desc:	Cable tool	Parcel No:	
Test Method Code:		Lot No:	
Test Mthd Desc:		Block No:	
Aquifer Desc:		Subdivision Name:	
Depth Seal:		SC:	32031
Depth Drilled:	270	HA:	086
Depth Bedrock:		Twn:	N20
Depth Cased:	270	Legal Twn:	20N
Qual Const Data:	G	Rng:	E20
Qual Lith Data:	G	Legal Rng:	20E
Gravel Pack Top:		Sec:	18
Gravel Pack Bot:		Sec Quarters:	
Gravel Packed:		Legal Quarters:	
Top Perf:	245	Quarters Seq:	
Bottom Perf:	270	Latitude:	39.599998474121094
Perf Intervals:	1	Longitude:	119.77861785888672
Casing Diameter:	6.0	Lat Long Src:	NV003
Casing Reductions:	0	Lat Long Acc:	M
Update User ID:	CLHUNT	Utm X:	261416.540947614
Date Entry:	05/11/2004	Utm Y:	4386842.63055856
Date Update:	05/21/2004	Remarks Add:	
Date Cmpl Acc:	D		
Owner Address:	444 YUKON DR SUN VALLEY		
Contractor Addr:	148 E 6TH ST SUN VALLEY		
Remarks:			

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
50	NE	0.76	4,012.96	4,767.80	WATER WELLS

Well Log:	5094	Notice of Intent:	0
Waiver No:		Yield:	15.0
Sequence No:	82131	Drawdown:	
Date Log Rcvd Acc:	D	Hours Pumped:	
Date Log Rcvd:	03/09/1960	Static Wl:	122.0
Well Start Date:	02/23/1960	Temperature:	
Well Finish Date:	03/07/1960	Ref:	MD
Edit Status:	F	App:	
Site Type Code:	N	Source Agency:	NV003
Site Type Desc:	New	Owner No:	
Work Type Code:	N	Owner Current:	MADEIROS, A J

Wells and Additional Sources Detail Report

Work Type Desc:	New	Driller Lic No:	257
Work Type Rmks:		Contractor Lic No:	257
Prop Use Code:	H	Contractor Drlr No:	
Prop Use Desc:	Domestic	Contractor Name:	WAYNE BURROUGHS
Drilling Mthd Code:	C	User ID:	SCOX
Drilling Mthd Desc:	Cable tool	Parcel No:	
Test Method Code:	B	Lot No:	4
Test Mthd Desc:	Bucket	Block No:	C
Aquifer Desc:		Subdivision Name:	SUN VALLEY 6
Depth Seal:		SC:	32031
Depth Drilled:	203	HA:	086
Depth Bedrock:		Twn:	N20
Depth Cased:	203	Legal Twn:	20N
Qual Const Data:	G	Rng:	E20
Qual Lith Data:	G	Legal Rng:	20E
Gravel Pack Top:		Sec:	18
Gravel Pack Bot:		Sec Quarters:	
Gravel Packed:		Legal Quarters:	
Top Perf:	148	Quarters Seq:	
Bottom Perf:	203	Latitude:	39.599998474121094
Perf Intervals:	1	Longitude:	119.77861785888672
Casing Diameter:	6.0	Lat Long Src:	NV003
Casing Reductions:	0	Lat Long Acc:	M
Update User ID:	MDILLON	Utm X:	261416.540947614
Date Entry:	05/12/2004	Utm Y:	4386842.63055856
Date Update:	05/28/2004	Remarks Add:	
Date Cmpl Acc:	D		
Owner Address:	296 EAST FOURTH ST SUN VALLEY		
Contractor Addr:	2171 EAST SECOND RENO		
Remarks:			

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
50	NE	0.76	4,012.96	4,767.80	WATER WELLS

Well Log:	7836	Notice of Intent:	0
Waiver No:		Yield:	
Sequence No:	82107	Drawdown:	
Date Log Rcvd Acc:	D	Hours Pumped:	
Date Log Rcvd:	05/28/1964	Static Wl:	57.0
Well Start Date:	04/15/1964	Temperature:	
Well Finish Date:	04/25/1964	Ref:	MD
Edit Status:	F	App:	
Site Type Code:	N	Source Agency:	NV003
Site Type Desc:	New	Owner No:	
Work Type Code:	N	Owner Current:	PERDON, FRANK
Work Type Desc:	New	Driller Lic No:	359

Wells and Additional Sources Detail Report

Work Type Rmks:	Contractor Lic No: 359
Prop Use Code: H	Contractor Drlr No:
Prop Use Desc: Domestic	Contractor Name: R W GIBSON
Drilling Mthd Code: C	User ID: SCOX
Drilling Mthd Desc: Cable tool	Parcel No:
Test Method Code:	Lot No:
Test Mthd Desc:	Block No:
Aquifer Desc:	Subdivision Name:
Depth Seal:	SC: 32031
Depth Drilled: 87	HA: 086
Depth Bedrock:	Twn: N20
Depth Cased: 87	Legal Twn: 20N
Qual Const Data: G	Rng: E20
Qual Lith Data: G	Legal Rng: 20E
Gravel Pack Top:	Sec: 18
Gravel Pack Bot:	Sec Quarters:
Gravel Packed:	Legal Quarters:
Top Perf: 67	Quarters Seq:
Bottom Perf: 87	Latitude: 39.599998474121094
Perf Intervals: 1	Longitude: 119.77861785888672
Casing Diameter: 6.0	Lat Long Src: NV003
Casing Reductions: 0	Lat Long Acc: M
Update User ID: SCOX	Utm X: 261416.540947614
Date Entry: 05/11/2004	Utm Y: 4386842.63055856
Date Update: 05/12/2004	Remarks Add:
Date Cmpl Acc: D	
Owner Address: SUN VALLEY	
Contractor Addr: 465 SIDEHILL DR SUN VALLEY	
Remarks:	

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
50	NE	0.76	4,012.96	4,767.80	WATER WELLS

Well Log: 1513	Notice of Intent: 0
Waiver No:	Yield:
Sequence No: 82157	Drawdown:
Date Log Rcvd Acc: D	Hours Pumped:
Date Log Rcvd: 12/28/1950	Static WI: 61.0
Well Start Date: 11/02/1950	Temperature:
Well Finish Date: 11/11/1950	Ref: MD
Edit Status: F	App:
Site Type Code: N	Source Agency: NV003
Site Type Desc: New	Owner No:
Work Type Code: N	Owner Current: MILLER
Work Type Desc: New	Driller Lic No: 29
Work Type Rmks:	Contractor Lic No: 29

Wells and Additional Sources Detail Report

Prop Use Code:	H	Contractor Drlr No:	
Prop Use Desc:	Domestic	Contractor Name:	LEA M PEASMALL
Drilling Mthd Code:	C	User ID:	SCOX
Drilling Mthd Desc:	Cable tool	Parcel No:	
Test Method Code:		Lot No:	
Test Mthd Desc:		Block No:	
Aquifer Desc:		Subdivision Name:	
Depth Seal:		SC:	32031
Depth Drilled:	113	HA:	086
Depth Bedrock:		Twn:	N20
Depth Cased:	110	Legal Twn:	20N
Qual Const Data:	G	Rng:	E20
Qual Lith Data:	G	Legal Rng:	20E
Gravel Pack Top:		Sec:	18
Gravel Pack Bot:		Sec Quarters:	
Gravel Packed:		Legal Quarters:	
Top Perf:	70	Quarters Seq:	
Bottom Perf:	110	Latitude:	39.599998474121094
Perf Intervals:	1	Longitude:	119.77861785888672
Casing Diameter:		Lat Long Src:	NV003
Casing Reductions:	0	Lat Long Acc:	M
Update User ID:	SCOX	Utm X:	261416.540947614
Date Entry:	05/12/2004	Utm Y:	4386842.63055856
Date Update:	05/12/2004	Remarks Add:	
Date Cmpl Acc:	D		
Owner Address:	SUN VALLEY		
Contractor Addr:	MANNING HOTEL		
Remarks:			

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
50	NE	0.76	4,012.96	4,767.80	WATER WELLS

Well Log:	8545	Notice of Intent:	0
Waiver No:		Yield:	
Sequence No:	82100	Drawdown:	
Date Log Rcvd Acc:	D	Hours Pumped:	
Date Log Rcvd:	06/18/1965	Static Wl:	35.0
Well Start Date:	09/17/1964	Temperature:	
Well Finish Date:	09/25/1964	Ref:	MD
Edit Status:	F	App:	
Site Type Code:	N	Source Agency:	NV003
Site Type Desc:	New	Owner No:	
Work Type Code:	N	Owner Current:	MARTIN, KENNETH
Work Type Desc:	New	Driller Lic No:	7373
Work Type Rmks:		Contractor Lic No:	
Prop Use Code:	H	Contractor Drlr No:	

Wells and Additional Sources Detail Report

Prop Use Desc:	Domestic	Contractor Name:	THAIROL SESSIONS
Drilling Mthd Code:	C	User ID:	SCOX
Drilling Mthd Desc:	Cable tool	Parcel No:	
Test Method Code:		Lot No:	
Test Mthd Desc:		Block No:	
Aquifer Desc:		Subdivision Name:	
Depth Seal:		SC:	32031
Depth Drilled:	102	HA:	086
Depth Bedrock:		Twn:	N20
Depth Cased:	102	Legal Twn:	20N
Qual Const Data:	G	Rng:	E20
Qual Lith Data:	G	Legal Rng:	20E
Gravel Pack Top:		Sec:	18
Gravel Pack Bot:		Sec Quarters:	
Gravel Packed:		Legal Quarters:	
Top Perf:	82	Quarters Seq:	
Bottom Perf:	102	Latitude:	39.599998474121094
Perf Intervals:	1	Longitude:	119.77861785888672
Casing Diameter:	6.0	Lat Long Src:	NV003
Casing Reductions:	0	Lat Long Acc:	M
Update User ID:	SCOX	Utm X:	261416.540947614
Date Entry:	05/11/2004	Utm Y:	4386842.63055856
Date Update:	05/12/2004	Remarks Add:	
Date Cmpl Acc:	D		
Owner Address:	5TH & PEARL DR SUN VALLEY		
Contractor Addr:	148 E 6TH SUN VALLEY		
Remarks:			

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
50	NE	0.76	4,012.96	4,767.80	WATER WELLS

Well Log:	3704	Notice of Intent:	0
Waiver No:		Yield:	20.0
Sequence No:	82149	Drawdown:	70.0
Date Log Rcvd Acc:	D	Hours Pumped:	
Date Log Rcvd:	04/05/1957	Static Wl:	45.0
Well Start Date:	03/12/1957	Temperature:	60.0
Well Finish Date:	03/15/1957	Ref:	MD
Edit Status:	F	App:	
Site Type Code:	N	Source Agency:	NV003
Site Type Desc:	New	Owner No:	
Work Type Code:	N	Owner Current:	RICHMOND, DOROTHY
Work Type Desc:	New	Driller Lic No:	265
Work Type Rmks:		Contractor Lic No:	
Prop Use Code:	H	Contractor Drlr No:	
Prop Use Desc:	Domestic	Contractor Name:	J N PITCHER CO

Wells and Additional Sources Detail Report

Drilling Mthd Code: C	User ID: SCOX
Drilling Mthd Desc: Cable tool	Parcel No:
Test Method Code: B	Lot No: 3
Test Mthd Desc: Bucket	Block No: A
Aquifer Desc:	Subdivision Name: SUN VALLEY 3
Depth Seal:	SC: 32031
Depth Drilled: 100	HA: 086
Depth Bedrock:	Twn: N20
Depth Cased: 100	Legal Twn: 20N
Qual Const Data: G	Rng: E20
Qual Lith Data: G	Legal Rng: 20E
Gravel Pack Top:	Sec: 18
Gravel Pack Bot:	Sec Quarters:
Gravel Packed:	Legal Quarters:
Top Perf: 60	Quarters Seq:
Bottom Perf: 100	Latitude: 39.599998474121094
Perf Intervals: 1	Longitude: 119.77861785888672
Casing Diameter: 6.125	Lat Long Src: NV003
Casing Reductions: 0	Lat Long Acc: M
Update User ID: SCOX	Utm X: 261416.540947614
Date Entry: 05/12/2004	Utm Y: 4386842.63055856
Date Update: 05/12/2004	Remarks Add:
Date Cmpl Acc: D	
Owner Address: SUN VALLEY	
Contractor Addr: 190 MOANA LANE RENO	
Remarks:	

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
50	NE	0.76	4,012.96	4,767.80	WATER WELLS

Well Log: 2048	Notice of Intent: 0
Waiver No:	Yield:
Sequence No: 82156	Drawdown:
Date Log Rcvd Acc: D	Hours Pumped:
Date Log Rcvd: 10/31/1952	Static Wl: 70.0
Well Start Date: 09/08/1952	Temperature: 65.0
Well Finish Date: 09/11/1952	Ref: MD
Edit Status: F	App:
Site Type Code: N	Source Agency: NV003
Site Type Desc: New	Owner No:
Work Type Code: N	Owner Current: CHAPMAN, VERLE H
Work Type Desc: New	Driller Lic No: 29
Work Type Rmks:	Contractor Lic No: 29
Prop Use Code: H	Contractor Drlr No:
Prop Use Desc: Domestic	Contractor Name: CHAMPION PUMP & SUPPLY
Drilling Mthd Code: C	User ID: SCOX

Wells and Additional Sources Detail Report

Drilling Mthd Desc:	Cable tool	Parcel No:	
Test Method Code:		Lot No:	
Test Mthd Desc:		Block No:	
Aquifer Desc:		Subdivision Name:	
Depth Seal:		SC:	32031
Depth Drilled:	110	HA:	086
Depth Bedrock:		Twn:	N20
Depth Cased:	93	Legal Twn:	20N
Qual Const Data:	G	Rng:	E20
Qual Lith Data:	G	Legal Rng:	20E
Gravel Pack Top:		Sec:	18
Gravel Pack Bot:		Sec Quarters:	
Gravel Packed:		Legal Quarters:	
Top Perf:	66	Quarters Seq:	
Bottom Perf:	93	Latitude:	39.599998474121094
Perf Intervals:	1	Longitude:	119.77861785888672
Casing Diameter:	6.0	Lat Long Src:	NV003
Casing Reductions:	0	Lat Long Acc:	M
Update User ID:	SCOX	Utm X:	261416.540947614
Date Entry:	05/12/2004	Utm Y:	4386842.63055856
Date Update:	05/12/2004	Remarks Add:	
Date Cmpl Acc:	D		
Owner Address:	W END OF 7TH AVE SUN VALLEY		
Contractor Addr:	RT1 BX 352 RENO		
Remarks:			

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
50	NE	0.76	4,012.96	4,767.80	WATER WELLS

Well Log:	2484	Notice of Intent:	0
Waiver No:		Yield:	20.0
Sequence No:	82155	Drawdown:	
Date Log Rcvd Acc:	D	Hours Pumped:	8.0
Date Log Rcvd:	03/08/1954	Static Wl:	80.0
Well Start Date:	03/02/1954	Temperature:	
Well Finish Date:	03/03/1954	Ref:	MD
Edit Status:	F	App:	
Site Type Code:	N	Source Agency:	NV003
Site Type Desc:	New	Owner No:	
Work Type Code:	N	Owner Current:	CHAMBERS, THOMAS A
Work Type Desc:	New	Driller Lic No:	3
Work Type Rmks:		Contractor Lic No:	3
Prop Use Code:	H	Contractor Drlr No:	
Prop Use Desc:	Domestic	Contractor Name:	MEL MEYERS
Drilling Mthd Code:	C	User ID:	SCOX
Drilling Mthd Desc:	Cable tool	Parcel No:	

Wells and Additional Sources Detail Report

Test Method Code:	A	Lot No:	
Test Mthd Desc:	Air Lift	Block No:	
Aquifer Desc:		Subdivision Name:	
Depth Seal:		SC:	32031
Depth Drilled:	110	HA:	086
Depth Bedrock:		Twn:	N20
Depth Cased:	110	Legal Twn:	20N
Qual Const Data:	G	Rng:	E20
Qual Lith Data:	G	Legal Rng:	20E
Gravel Pack Top:		Sec:	18
Gravel Pack Bot:		Sec Quarters:	
Gravel Packed:		Legal Quarters:	
Top Perf:	70	Quarters Seq:	
Bottom Perf:	108	Latitude:	39.599998474121094
Perf Intervals:	1	Longitude:	119.77861785888672
Casing Diameter:	8.625	Lat Long Src:	NV003
Casing Reductions:	0	Lat Long Acc:	M
Update User ID:	SCOX	Utm X:	261416.540947614
Date Entry:	05/12/2004	Utm Y:	4386842.63055856
Date Update:	05/12/2004	Remarks Add:	
Date Cmpl Acc:	D		
Owner Address:	6TH & 7TH ST SUN VALLEY		
Contractor Addr:	120 MOANA LANE		
Remarks:			

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
51	SE	0.77	4,072.29	4,655.88	WATER WELLS

Well Log:	6365	Notice of Intent:	0
Waiver No:		Yield:	
Sequence No:	82336	Drawdown:	
Date Log Rcvd Acc:	D	Hours Pumped:	
Date Log Rcvd:	02/06/1962	Static Wl:	27.0
Well Start Date:	11/11/1961	Temperature:	
Well Finish Date:	11/13/1961	Ref:	MD
Edit Status:	F	App:	
Site Type Code:	N	Source Agency:	NV003
Site Type Desc:	New	Owner No:	
Work Type Code:	N	Owner Current:	SMITH, WILLIE
Work Type Desc:	New	Driller Lic No:	322
Work Type Rmks:		Contractor Lic No:	322
Prop Use Code:	H	Contractor Drlr No:	
Prop Use Desc:	Domestic	Contractor Name:	F R BAXTER
Drilling Mthd Code:	H	User ID:	SCOX
Drilling Mthd Desc:	Hydraulic Rotary-Mud	Parcel No:	
Test Method Code:		Lot No:	

Wells and Additional Sources Detail Report

Test Mthd Desc:		Block No:	
Aquifer Desc:		Subdivision Name:	
Depth Seal:		SC:	32031
Depth Drilled:	90	HA:	086
Depth Bedrock:		Twn:	N20
Depth Cased:	90	Legal Twn:	20N
Qual Const Data:	G	Rng:	E20
Qual Lith Data:	G	Legal Rng:	20E
Gravel Pack Top:		Sec:	30
Gravel Pack Bot:		Sec Quarters:	AB
Gravel Packed:		Legal Quarters:	NW NE
Top Perf:	70	Quarters Seq:	
Bottom Perf:	90	Latitude:	39.576663970947266
Perf Intervals:	1	Longitude:	119.7763900756836
Casing Diameter:	6.25	Lat Long Src:	NV003
Casing Reductions:	0	Lat Long Acc:	M
Update User ID:	SCOX	Utm X:	261527.332491341
Date Entry:	05/13/2004	Utm Y:	4384246.61272934
Date Update:	05/13/2004	Remarks Add:	
Date Cmpl Acc:	D		
Owner Address:	SUN VALLEY		
Contractor Addr:	CARSON		
Remarks:			

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
51	SE	0.77	4,072.29	4,655.88	WATER WELLS

Well Log:	5002	Notice of Intent:	0
Waiver No:		Yield:	15.0
Sequence No:	82338	Drawdown:	
Date Log Rcvd Acc:	D	Hours Pumped:	
Date Log Rcvd:	06/26/1960	Static Wl:	22.0
Well Start Date:	10/23/1959	Temperature:	
Well Finish Date:	10/24/1959	Ref:	MD
Edit Status:	F	App:	
Site Type Code:	E	Source Agency:	NV003
Site Type Desc:	Existing (Deepen)	Owner No:	
Work Type Code:	D	Owner Current:	QUINONES, FRANK
Work Type Desc:	Deepen	Driller Lic No:	287
Work Type Rmks:		Contractor Lic No:	287
Prop Use Code:	H	Contractor Drlr No:	
Prop Use Desc:	Domestic	Contractor Name:	A & B CONTRACTORS
Drilling Mthd Code:	C	User ID:	SCOX
Drilling Mthd Desc:	Cable tool	Parcel No:	
Test Method Code:	U	Lot No:	
Test Mthd Desc:	Unknown	Block No:	

Wells and Additional Sources Detail Report

Aquifer Desc:		Subdivision Name:
Depth Seal:		SC: 32031
Depth Drilled: 90		HA: 086
Depth Bedrock:		Twn: N20
Depth Cased: 90		Legal Twn: 20N
Qual Const Data: G		Rng: E20
Qual Lith Data: G		Legal Rng: 20E
Gravel Pack Top:		Sec: 30
Gravel Pack Bot:		Sec Quarters: AB
Gravel Packed:		Legal Quarters: NW NE
Top Perf:		Quarters Seq:
Bottom Perf:		Latitude: 39.576663970947266
Perf Intervals: 1		Longitude: 119.7763900756836
Casing Diameter: 6.0		Lat Long Src: NV003
Casing Reductions: 0		Lat Long Acc: M
Update User ID: MDILLON		Utm X: 261527.332491341
Date Entry: 05/13/2004		Utm Y: 4384246.61272934
Date Update: 05/28/2004		Remarks Add:
Date Cmpl Acc: D		
Owner Address: 150 PIONEER RD SUN VALLEY		
Contractor Addr: SUN VALLEY		
Remarks:		

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
52	NNE	0.77	4,082.13	4,813.41	WATER WELLS

Well Log: 6902	Notice of Intent: 0
Waiver No:	Yield: 20.0
Sequence No: 82112	Drawdown:
Date Log Rcvd Acc: D	Hours Pumped:
Date Log Rcvd: 12/12/1962	Static WI: 20.0
Well Start Date: 07/22/1962	Temperature:
Well Finish Date: 07/23/1962	Ref: MD
Edit Status: F	App:
Site Type Code: E	Source Agency: NV003
Site Type Desc: Existing (Deepen)	Owner No:
Work Type Code: O	Owner Current: SMITH, GEORGE
Work Type Desc: Other (exp rmks)	Driller Lic No: 287
Work Type Rmks:	Contractor Lic No: 6538
Prop Use Code: H	Contractor Drlr No:
Prop Use Desc: Domestic	Contractor Name: A & B CONTRACTORS
Drilling Mthd Code: C	User ID: SCOX
Drilling Mthd Desc: Cable tool	Parcel No:
Test Method Code: P	Lot No:
Test Mthd Desc: Piston Pump	Block No:
Aquifer Desc:	Subdivision Name:

Wells and Additional Sources Detail Report

Depth Seal:		SC:	32031
Depth Drilled:	88	HA:	086
Depth Bedrock:		Twn:	N20
Depth Cased:	88	Legal Twn:	20N
Qual Const Data:	G	Rng:	E20
Qual Lith Data:	G	Legal Rng:	20E
Gravel Pack Top:		Sec:	18
Gravel Pack Bot:		Sec Quarters:	BD
Gravel Packed:		Legal Quarters:	SE NW
Top Perf:	65	Quarters Seq:	
Bottom Perf:	88	Latitude:	39.60194396972656
Perf Intervals:	1	Longitude:	119.78111267089844
Casing Diameter:	5.0	Lat Long Src:	NV003
Casing Reductions:	0	Lat Long Acc:	M
Update User ID:	SCOX	Utm X:	261208.532034549
Date Entry:	05/11/2004	Utm Y:	4387065.11902331
Date Update:	06/02/2004	Remarks Add:	
Date Cmpl Acc:	D		
Owner Address:	52 WEST 4TH ST SUN VALLEY		
Contractor Addr:	SUN VALLEY		
Remarks:	WORK TYPE=CLEANED & SET 5" LINER		

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
53	NE	0.79	4,170.64	4,743.42	WATER WELLS

Well Log:	5529	Notice of Intent:	0
Waiver No:		Yield:	20.0
Sequence No:	82122	Drawdown:	50.0
Date Log Rcvd Acc:	D	Hours Pumped:	
Date Log Rcvd:	11/01/1960	Static Wl:	22.0
Well Start Date:	07/22/1960	Temperature:	
Well Finish Date:	07/28/1960	Ref:	MD
Edit Status:	F	App:	
Site Type Code:	N	Source Agency:	NV003
Site Type Desc:	New	Owner No:	
Work Type Code:	N	Owner Current:	WEEKS, DAVID
Work Type Desc:	New	Driller Lic No:	287
Work Type Rmks:		Contractor Lic No:	208
Prop Use Code:	H	Contractor Drlr No:	
Prop Use Desc:	Domestic	Contractor Name:	A & B CONTRACTORS
Drilling Mthd Code:	C	User ID:	SCOX
Drilling Mthd Desc:	Cable tool	Parcel No:	
Test Method Code:	B	Lot No:	
Test Mthd Desc:	Bucket	Block No:	
Aquifer Desc:		Subdivision Name:	
Depth Seal:		SC:	32031

Wells and Additional Sources Detail Report

Depth Drilled:	65	HA:	086
Depth Bedrock:		Twn:	N20
Depth Cased:	65	Legal Twn:	20N
Qual Const Data:	G	Rng:	E20
Qual Lith Data:	G	Legal Rng:	20E
Gravel Pack Top:		Sec:	18
Gravel Pack Bot:		Sec Quarters:	DB
Gravel Packed:		Legal Quarters:	NW SE
Top Perf:	50	Quarters Seq:	
Bottom Perf:	65	Latitude:	39.598331451416016
Perf Intervals:	1	Longitude:	119.7763900756836
Casing Diameter:	6.0	Lat Long Src:	NV003
Casing Reductions:	0	Lat Long Acc:	M
Update User ID:	MDILLON	Utm X:	261601.659833936
Date Entry:	05/11/2004	Utm Y:	4386651.72042191
Date Update:	06/01/2004	Remarks Add:	
Date Cmpl Acc:	D		
Owner Address:	SUN VALLEY		
Contractor Addr:	SUN VALLEY		
Remarks:			

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
54	WNW	0.79	4,194.62	5,092.01	WATER WELLS

Well Log:	6615	Notice of Intent:	0
Waiver No:		Yield:	
Sequence No:	79460	Drawdown:	
Date Log Rcvd Acc:	D	Hours Pumped:	
Date Log Rcvd:	07/02/1962	Static Wl:	60.0
Well Start Date:	05/01/1962	Temperature:	
Well Finish Date:	06/05/1962	Ref:	MD
Edit Status:	F	App:	20109
Site Type Code:	N	Source Agency:	NV003
Site Type Desc:	New	Owner No:	
Work Type Code:	N	Owner Current:	CHISHOLM, H S
Work Type Desc:	New	Driller Lic No:	174
Work Type Rmks:		Contractor Lic No:	174
Prop Use Code:	P	Contractor Drlr No:	
Prop Use Desc:	Public sup-municipal	Contractor Name:	T L SHERMAN
Drilling Mthd Code:	C	User ID:	DBRANTLEY
Drilling Mthd Desc:	Cable tool	Parcel No:	
Test Method Code:		Lot No:	
Test Mthd Desc:		Block No:	
Aquifer Desc:		Subdivision Name:	
Depth Seal:		SC:	32031
Depth Drilled:	300	HA:	087

Wells and Additional Sources Detail Report

Depth Bedrock:		TwN:	N20
Depth Cased:	300	Legal TwN:	20N
Qual Const Data:	G	Rng:	E19
Qual Lith Data:	G	Legal Rng:	19E
Gravel Pack Top:		Sec:	23
Gravel Pack Bot:		Sec Quarters:	AA
Gravel Packed:		Legal Quarters:	NE NE
Top Perf:	200	Quarters Seq:	
Bottom Perf:	300	Latitude:	39.59111022949219
Perf Intervals:	1	Longitude:	119.80889129638672
Casing Diameter:	8.75	Lat Long Src:	NV003
Casing Reductions:	0	Lat Long Acc:	M
Update User ID:	SCOX	Utm X:	258785.513040044
Date Entry:	03/09/2004	Utm Y:	4385936.79369003
Date Update:	03/25/2004	Remarks Add:	
Date Cmpl Acc:	D		
Owner Address:	1282 PANTHER DR		
Contractor Addr:	2500 BELFORD RD		
Remarks:			

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
55	NE	0.80	4,238.15	4,741.79	WATER WELLS

Well Log:	70670	Notice of Intent:	37454
Waiver No:		Yield:	
Sequence No:	49244	Drawdown:	
Date Log Rcvd Acc:	D	Hours Pumped:	
Date Log Rcvd:	02/10/1998	Static WI:	48.0
Well Start Date:	02/05/1998	Temperature:	
Well Finish Date:	02/06/1998	Ref:	MD
Edit Status:	F	App:	
Site Type Code:	E	Source Agency:	NV003
Site Type Desc:	Existing (Deepen)	Owner No:	
Work Type Code:	P	Owner Current:	KURT GARDNER GEMSTONE DEV
Work Type Desc:	Plug or Abandonment	Driller Lic No:	1981
Work Type Rmks:		Contractor Lic No:	15291
Prop Use Code:	U	Contractor Drlr No:	
Prop Use Desc:	Unused	Contractor Name:	AQUA DRILLING & WELL SERVICE
Drilling Mthd Code:	U	User ID:	DSPELTS
Drilling Mthd Desc:	Unknown	Parcel No:	85-261-08
Test Method Code:		Lot No:	
Test Mthd Desc:		Block No:	
Aquifer Desc:		Subdivision Name:	
Depth Seal:		SC:	32031
Depth Drilled:	155	HA:	086
Depth Bedrock:		TwN:	N20

Wells and Additional Sources Detail Report

Depth Cased:	155	Legal Twn:	20N
Qual Const Data:	G	Rng:	E20
Qual Lith Data:	G	Legal Rng:	20E
Gravel Pack Top:	0	Sec:	18
Gravel Pack Bot:	0	Sec Quarters:	DB
Gravel Packed:		Legal Quarters:	NW SE
Top Perf:		Quarters Seq:	
Bottom Perf:		Latitude:	39.598331451416016
Perf Intervals:		Longitude:	119.77611541748047
Casing Diameter:	8.62	Lat Long Src:	NV003
Casing Reductions:	0	Lat Long Acc:	T
Update User ID:	user62	Utm X:	261625.51512638933
Date Entry:	03/12/1998	Utm Y:	4386650.98306739
Date Update:	03/12/1998	Remarks Add:	
Date Cmpl Acc:	D		
Owner Address:	7TH & LEON SUN VLY NV		
Contractor Addr:	675 EDISON WY RENO NV 8950		
Remarks:			

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
56	NNE	0.82	4,318.80	4,862.31	WATER WELLS

Well Log:	1208	Notice of Intent:	0
Waiver No:		Yield:	25.0
Sequence No:	82161	Drawdown:	
Date Log Rcvd Acc:	D	Hours Pumped:	
Date Log Rcvd:	02/16/1950	Static Wl:	17.0
Well Start Date:	02/07/1950	Temperature:	
Well Finish Date:	02/08/1950	Ref:	MD
Edit Status:	F	App:	
Site Type Code:	N	Source Agency:	NV003
Site Type Desc:	New	Owner No:	
Work Type Code:	N	Owner Current:	SWAIN, FRED P & SIBYL L
Work Type Desc:	New	Driller Lic No:	75
Work Type Rmks:		Contractor Lic No:	75
Prop Use Code:	H	Contractor Drlr No:	
Prop Use Desc:	Domestic	Contractor Name:	C C MOON
Drilling Mthd Code:	C	User ID:	SCOX
Drilling Mthd Desc:	Cable tool	Parcel No:	
Test Method Code:	U	Lot No:	4
Test Mthd Desc:	Unknown	Block No:	D
Aquifer Desc:		Subdivision Name:	SUN VALLEY
Depth Seal:		SC:	32031
Depth Drilled:	63	HA:	086
Depth Bedrock:		Twn:	N20
Depth Cased:	48	Legal Twn:	20N

Wells and Additional Sources Detail Report

Qual Const Data:	G	Rng:	E20
Qual Lith Data:	G	Legal Rng:	20E
Gravel Pack Top:		Sec:	18
Gravel Pack Bot:		Sec Quarters:	B
Gravel Packed:		Legal Quarters:	NW
Top Perf:		Quarters Seq:	
Bottom Perf:		Latitude:	39.60361099243164
Perf Intervals:	1	Longitude:	119.78333282470703
Casing Diameter:	6.0	Lat Long Src:	NV003
Casing Reductions:	0	Lat Long Acc:	M
Update User ID:	SCOX	Utm X:	261023.43312855
Date Entry:	05/12/2004	Utm Y:	4387256.03958556
Date Update:	05/12/2004	Remarks Add:	
Date Cmpl Acc:	D		
Owner Address:			
Contractor Addr:	665 WEST ST		
Remarks:			

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
57	E	0.82	4,334.39	4,683.74	WATER WELLS

Well Log:	3016	Notice of Intent:	0
Waiver No:		Yield:	
Sequence No:	82218	Drawdown:	
Date Log Rcvd Acc:	D	Hours Pumped:	
Date Log Rcvd:	06/21/1955	Static Wl:	24.0
Well Start Date:	05/11/1955	Temperature:	
Well Finish Date:	05/14/1955	Ref:	MD
Edit Status:	F	App:	
Site Type Code:	N	Source Agency:	NV003
Site Type Desc:	New	Owner No:	
Work Type Code:	N	Owner Current:	GOULD, NOAH
Work Type Desc:	New	Driller Lic No:	199
Work Type Rmks:		Contractor Lic No:	199
Prop Use Code:	H	Contractor Drlr No:	
Prop Use Desc:	Domestic	Contractor Name:	JAMES FRANCIS
Drilling Mthd Code:	C	User ID:	SCOX
Drilling Mthd Desc:	Cable tool	Parcel No:	
Test Method Code:		Lot No:	
Test Mthd Desc:		Block No:	
Aquifer Desc:		Subdivision Name:	
Depth Seal:		SC:	32031
Depth Drilled:	98	HA:	086
Depth Bedrock:		Twn:	N20
Depth Cased:	98	Legal Twn:	20N
Qual Const Data:	G	Rng:	E20

Wells and Additional Sources Detail Report

Qual Lith Data: G	Legal Rng: 20E
Gravel Pack Top:	Sec: 19
Gravel Pack Bot:	Sec Quarters: A
Gravel Packed:	Legal Quarters: NE
Top Perf: 58	Quarters Seq:
Bottom Perf: 98	Latitude: 39.58944320678711
Perf Intervals: 1	Longitude: 119.77389526367188
Casing Diameter: 6.0	Lat Long Src: NV003
Casing Reductions: 0	Lat Long Acc: M
Update User ID:	Utm X: 261785.887537936
Date Entry: 05/12/2004	Utm Y: 4385658.37559307
Date Update:	Remarks Add:
Date Cmpl Acc: D	
Owner Address: 117 SHORT AVE SUN VALLEY	
Contractor Addr: SUN VALLEY	
Remarks:	

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
57	E	0.82	4,334.39	4,683.74	WATER WELLS

Well Log: 3015	Notice of Intent: 0
Waiver No:	Yield:
Sequence No: 82219	Drawdown:
Date Log Rcvd Acc: D	Hours Pumped:
Date Log Rcvd: 06/21/1955	Static Wl: 30.0
Well Start Date: 05/08/1955	Temperature:
Well Finish Date: 05/10/1955	Ref: MD
Edit Status: F	App:
Site Type Code: E	Source Agency: NV003
Site Type Desc: Existing (Deepen)	Owner No:
Work Type Code: D	Owner Current: ANDERSON, ROSS
Work Type Desc: Deepen	Driller Lic No: 199
Work Type Rmks:	Contractor Lic No: 199
Prop Use Code: H	Contractor Drlr No:
Prop Use Desc: Domestic	Contractor Name: JAMES FRANCIS
Drilling Mthd Code: C	User ID: SCOX
Drilling Mthd Desc: Cable tool	Parcel No:
Test Method Code:	Lot No:
Test Mthd Desc:	Block No:
Aquifer Desc:	Subdivision Name:
Depth Seal:	SC: 32031
Depth Drilled: 66	HA: 086
Depth Bedrock:	Twn: N20
Depth Cased: 66	Legal Twn: 20N
Qual Const Data: G	Rng: E20
Qual Lith Data: G	Legal Rng: 20E

Wells and Additional Sources Detail Report

Gravel Pack Top:		Sec:	19
Gravel Pack Bot:		Sec Quarters:	A
Gravel Packed:		Legal Quarters:	NE
Top Perf:	46	Quarters Seq:	
Bottom Perf:	66	Latitude:	39.58944320678711
Perf Intervals:	1	Longitude:	119.77389526367188
Casing Diameter:	6.0	Lat Long Src:	NV003
Casing Reductions:	0	Lat Long Acc:	M
Update User ID:	SCOX	Utm X:	261785.887537936
Date Entry:	05/12/2004	Utm Y:	4385658.37559307
Date Update:	06/02/2004	Remarks Add:	
Date Cmpl Acc:	D		
Owner Address:	248 WOODS DR SUN VALLEY		
Contractor Addr:	SUN VALLEY		
Remarks:			

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
57	E	0.82	4,334.39	4,683.74	WATER WELLS

Well Log:	3014	Notice of Intent:	0
Waiver No:		Yield:	5.8
Sequence No:	82220	Drawdown:	20.0
Date Log Rcvd Acc:	D	Hours Pumped:	
Date Log Rcvd:	06/21/1955	Static Wl:	27.0
Well Start Date:	05/04/1955	Temperature:	
Well Finish Date:	05/07/1955	Ref:	MD
Edit Status:	F	App:	
Site Type Code:	N	Source Agency:	NV003
Site Type Desc:	New	Owner No:	
Work Type Code:	N	Owner Current:	HARRIS, FRANK
Work Type Desc:	New	Driller Lic No:	199
Work Type Rmks:		Contractor Lic No:	199
Prop Use Code:	H	Contractor Drlr No:	
Prop Use Desc:	Domestic	Contractor Name:	JAMES FRANCIS
Drilling Mthd Code:	C	User ID:	SCOX
Drilling Mthd Desc:	Cable tool	Parcel No:	
Test Method Code:	P	Lot No:	
Test Mthd Desc:	Piston Pump	Block No:	
Aquifer Desc:		Subdivision Name:	
Depth Seal:		SC:	32031
Depth Drilled:	76	HA:	086
Depth Bedrock:		Twn:	N20
Depth Cased:	76	Legal Twn:	20N
Qual Const Data:	G	Rng:	E20
Qual Lith Data:	G	Legal Rng:	20E
Gravel Pack Top:		Sec:	19

Wells and Additional Sources Detail Report

Gravel Pack Bot:	Sec Quarters:	A
Gravel Packed:	Legal Quarters:	NE
Top Perf: 36	Quarters Seq:	
Bottom Perf: 76	Latitude:	39.58944320678711
Perf Intervals: 1	Longitude:	119.77389526367188
Casing Diameter: 6.0	Lat Long Src:	NV003
Casing Reductions: 0	Lat Long Acc:	M
Update User ID:	Utm X:	261785.887537936
Date Entry: 05/12/2004	Utm Y:	4385658.37559307
Date Update:	Remarks Add:	
Date Cmpl Acc: D		
Owner Address: 328 WOODS DR SUN VALLEY		
Contractor Addr: SUN VALLEY		
Remarks:		

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
58	ESE	0.82	4,337.09	4,686.86	WATER WELLS

Well Log: 5812	Notice of Intent: 0
Waiver No:	Yield: 12.0
Sequence No: 82186	Drawdown:
Date Log Rcvd Acc: D	Hours Pumped:
Date Log Rcvd: 04/06/1961	Static Wl: 50.0
Well Start Date: 02/04/1961	Temperature: 60.0
Well Finish Date: 02/05/1961	Ref: MD
Edit Status: F	App:
Site Type Code: N	Source Agency: NV003
Site Type Desc: New	Owner No:
Work Type Code: N	Owner Current: LEACH, CLARENCE
Work Type Desc: New	Driller Lic No: 334
Work Type Rmks:	Contractor Lic No: 334
Prop Use Code: H	Contractor Drlr No:
Prop Use Desc: Domestic	Contractor Name: THOLKE & PETERSON
Drilling Mthd Code: C	User ID: SCOX
Drilling Mthd Desc: Cable tool	Parcel No:
Test Method Code: B	Lot No:
Test Mthd Desc: Bucket	Block No:
Aquifer Desc:	Subdivision Name:
Depth Seal:	SC: 32031
Depth Drilled: 120	HA: 086
Depth Bedrock:	Twn: N20
Depth Cased: 120	Legal Twn: 20N
Qual Const Data: G	Rng: E20
Qual Lith Data: G	Legal Rng: 20E
Gravel Pack Top:	Sec: 19
Gravel Pack Bot:	Sec Quarters: D

Wells and Additional Sources Detail Report

Gravel Packed:		Legal Quarters:	SE
Top Perf:	60	Quarters Seq:	
Bottom Perf:	120	Latitude:	39.58222198486328
Perf Intervals:	1	Longitude:	119.77389526367188
Casing Diameter:	6.0	Lat Long Src:	NV003
Casing Reductions:	0	Lat Long Acc:	M
Update User ID:		Utm X:	261761.134987672
Date Entry:	05/12/2004	Utm Y:	4384856.67352874
Date Update:		Remarks Add:	
Date Cmpl Acc:	D		
Owner Address:	128 W EST 4TH ST SUN VALLEY		
Contractor Addr:	PO BOX 663 SPARKS		
Remarks:			

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
58	ESE	0.82	4,337.09	4,686.86	WATER WELLS

Well Log:	15014	Notice of Intent:	0
Waiver No:		Yield:	
Sequence No:	82167	Drawdown:	
Date Log Rcvd Acc:		Hours Pumped:	
Date Log Rcvd:		Static Wl:	22.0
Well Start Date:	08/08/1955	Temperature:	
Well Finish Date:	08/08/1955	Ref:	MD
Edit Status:	F	App:	
Site Type Code:	E	Source Agency:	NV003
Site Type Desc:	Existing (Deepen)	Owner No:	
Work Type Code:	N	Owner Current:	OATTING, A C
Work Type Desc:	New	Driller Lic No:	3
Work Type Rmks:		Contractor Lic No:	3
Prop Use Code:	H	Contractor Drlr No:	
Prop Use Desc:	Domestic	Contractor Name:	MEL MEYER CO
Drilling Mthd Code:	C	User ID:	SCOX
Drilling Mthd Desc:	Cable tool	Parcel No:	
Test Method Code:		Lot No:	
Test Mthd Desc:		Block No:	
Aquifer Desc:		Subdivision Name:	
Depth Seal:		SC:	32031
Depth Drilled:	40	HA:	086
Depth Bedrock:		Twn:	N20
Depth Cased:	40	Legal Twn:	20N
Qual Const Data:	G	Rng:	E20
Qual Lith Data:	G	Legal Rng:	20E
Gravel Pack Top:		Sec:	19
Gravel Pack Bot:		Sec Quarters:	D
Gravel Packed:		Legal Quarters:	SE

Wells and Additional Sources Detail Report

Top Perf:	20	Quarters Seq:	
Bottom Perf:	40	Latitude:	39.58222198486328
Perf Intervals:	1	Longitude:	119.77389526367188
Casing Diameter:	8.0	Lat Long Src:	NV003
Casing Reductions:	0	Lat Long Acc:	M
Update User ID:	SCOX	Utm X:	261761.134987672
Date Entry:	05/12/2004	Utm Y:	4384856.67352874
Date Update:	05/26/2004	Remarks Add:	
Date Cmpl Acc:	D		
Owner Address:	FIRST AVE & CAORL DR SUN VALLEY		
Contractor Addr:	190 MOANA LANE RENO		
Remarks:			

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
58	ESE	0.82	4,337.09	4,686.86	WATER WELLS

Well Log:	19945	Notice of Intent:	0
Waiver No:		Yield:	5.0
Sequence No:	82166	Drawdown:	
Date Log Rcvd Acc:	D	Hours Pumped:	
Date Log Rcvd:	06/08/1979	Static WI:	280.0
Well Start Date:	05/30/1979	Temperature:	
Well Finish Date:	06/01/1979	Ref:	MD
Edit Status:	F	App:	
Site Type Code:	N	Source Agency:	NV003
Site Type Desc:	New	Owner No:	
Work Type Code:	N	Owner Current:	BRAITHWATO, JOHN
Work Type Desc:	New	Driller Lic No:	957
Work Type Rmks:		Contractor Lic No:	14483
Prop Use Code:	H	Contractor Drlr No:	
Prop Use Desc:	Domestic	Contractor Name:	PAUL WILLIAMS
Drilling Mthd Code:	H	User ID:	SCOX
Drilling Mthd Desc:	Hydraulic Rotary-Mud	Parcel No:	
Test Method Code:	U	Lot No:	
Test Mthd Desc:	Unknown	Block No:	
Aquifer Desc:		Subdivision Name:	
Depth Seal:	50	SC:	32031
Depth Drilled:	600	HA:	086
Depth Bedrock:		Twn:	N20
Depth Cased:	434	Legal Twn:	20N
Qual Const Data:	G	Rng:	E20
Qual Lith Data:	G	Legal Rng:	20E
Gravel Pack Top:	432	Sec:	19
Gravel Pack Bot:	600	Sec Quarters:	D
Gravel Packed:	Y	Legal Quarters:	SE
Top Perf:	412	Quarters Seq:	

Wells and Additional Sources Detail Report

Bottom Perf:	432	Latitude:	39.58222198486328
Perf Intervals:	1	Longitude:	119.77389526367188
Casing Diameter:	6.625	Lat Long Src:	NV003
Casing Reductions:	0	Lat Long Acc:	M
Update User ID:		Utm X:	261761.134987672
Date Entry:	05/12/2004	Utm Y:	4384856.67352874
Date Update:		Remarks Add:	
Date Cmpl Acc:	D		
Owner Address:	5215 HONEY BEAR DR SUN VALLEY		
Contractor Addr:	275 COURTNEY LANE RENO		
Remarks:			

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
59	NW	0.83	4,386.50	5,076.25	WATER WELLS

Well Log:	25450	Notice of Intent:	4646
Waiver No:		Yield:	
Sequence No:	396	Drawdown:	
Date Log Rcvd Acc:		Hours Pumped:	
Date Log Rcvd:		Static Wl:	
Well Start Date:		Temperature:	
Well Finish Date:	06/06/1984	Ref:	MD
Edit Status:	F	App:	
Site Type Code:	N	Source Agency:	NV003
Site Type Desc:	New	Owner No:	
Work Type Code:	N	Owner Current:	CLEMENTS, DEBBIE
Work Type Desc:	New	Driller Lic No:	1132
Work Type Rmks:		Contractor Lic No:	15291
Prop Use Code:	H	Contractor Drlr No:	1132
Prop Use Desc:	Domestic	Contractor Name:	AQUA DRILLING & WELL SERVICE
Drilling Mthd Code:	A	User ID:	
Drilling Mthd Desc:	Air Rotary	Parcel No:	88-220-09
Test Method Code:	C	Lot No:	
Test Mthd Desc:	Centrifugal Pump	Block No:	
Aquifer Desc:		Subdivision Name:	SUN VALLEY
Depth Seal:	52	SC:	32031
Depth Drilled:	125	HA:	086
Depth Bedrock:		Twn:	N20
Depth Cased:	122	Legal Twn:	20N
Qual Const Data:		Rng:	E19
Qual Lith Data:		Legal Rng:	19E
Gravel Pack Top:	0	Sec:	13
Gravel Pack Bot:	0	Sec Quarters:	BC
Gravel Packed:	Y	Legal Quarters:	SW NW
Top Perf:	102	Quarters Seq:	
Bottom Perf:	122	Latitude:	39.60194396972656

Wells and Additional Sources Detail Report

Perf Intervals:	1	Longitude:	119.80416870117188
Casing Diameter:	6.62	Lat Long Src:	NV003
Casing Reductions:	0	Lat Long Acc:	T
Update User ID:		Utm X:	259228.64067206078
Date Entry:		Utm Y:	4387126.682951889
Date Update:		Remarks Add:	
Date Cmpl Acc:	D		
Owner Address:			
Contractor Addr:			
Remarks:			

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
59	NW	0.83	4,386.50	5,076.25	WATER WELLS

Well Log:	42926	Notice of Intent:	25061
Waiver No:		Yield:	25.0
Sequence No:	18663	Drawdown:	
Date Log Rcvd Acc:	D	Hours Pumped:	2.0
Date Log Rcvd:	11/22/1993	Static Wl:	80.0
Well Start Date:		Temperature:	
Well Finish Date:	11/18/1993	Ref:	MD
Edit Status:	F	App:	54679
Site Type Code:	E	Source Agency:	NV003
Site Type Desc:	Existing (Deepen)	Owner No:	
Work Type Code:	D	Owner Current:	RENO-SPARKS TW METH CHURCH
Work Type Desc:	Deepen	Driller Lic No:	1454
Work Type Rmks:		Contractor Lic No:	29064
Prop Use Code:	G	Contractor Drlr No:	
Prop Use Desc:	Monitoring Well	Contractor Name:	PARSONS DRILLING INC
Drilling Mthd Code:	A	User ID:	CGALEJAN
Drilling Mthd Desc:	Air Rotary	Parcel No:	008-210-26
Test Method Code:	A	Lot No:	
Test Mthd Desc:	Air Lift	Block No:	
Aquifer Desc:		Subdivision Name:	
Depth Seal:		SC:	32031
Depth Drilled:	205	HA:	086
Depth Bedrock:		Twn:	N20
Depth Cased:	205	Legal Twn:	20N
Qual Const Data:	F	Rng:	E19
Qual Lith Data:	F	Legal Rng:	19E
Gravel Pack Top:	0	Sec:	13
Gravel Pack Bot:	0	Sec Quarters:	BC
Gravel Packed:	Y	Legal Quarters:	SW NW
Top Perf:	165	Quarters Seq:	
Bottom Perf:	205	Latitude:	39.60194396972656
Perf Intervals:	1	Longitude:	119.80416870117188

Wells and Additional Sources Detail Report

Casing Diameter:	5.56	Lat Long Src:	NV003
Casing Reductions:	0	Lat Long Acc:	T
Update User ID:		Utm X:	259228.64067206078
Date Entry:		Utm Y:	4387126.682951889
Date Update:		Remarks Add:	WELL DEEPENED FROM 175 FT TO 205 FT
Date Cmpl Acc:	D		
Owner Address:	W 7TH & BILLEN LN SUN VLY NV		
Contractor Addr:	PO BOX 1265 FALLON NV		
Remarks:	PROP USE=MNCPL/INDSTRL WAIVER NO=MO71535		

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
59	NW	0.83	4,386.50	5,076.25	WATER WELLS

Well Log:	28944	Notice of Intent:	9306
Waiver No:		Yield:	
Sequence No:	4387	Drawdown:	
Date Log Rcvd Acc:		Hours Pumped:	
Date Log Rcvd:		Static Wl:	77.0
Well Start Date:		Temperature:	
Well Finish Date:	08/06/1987	Ref:	MD
Edit Status:	F	App:	
Site Type Code:	N	Source Agency:	NV003
Site Type Desc:	New	Owner No:	
Work Type Code:	N	Owner Current:	FIELDS, LARRY & BARBARA
Work Type Desc:	New	Driller Lic No:	923
Work Type Rmks:		Contractor Lic No:	22549
Prop Use Code:	H	Contractor Drlr No:	908
Prop Use Desc:	Domestic	Contractor Name:	WAYNE DRILLING INC
Drilling Mthd Code:	A	User ID:	NAFLECKS
Drilling Mthd Desc:	Air Rotary	Parcel No:	88-210-40
Test Method Code:		Lot No:	
Test Mthd Desc:		Block No:	
Aquifer Desc:		Subdivision Name:	SUN VALLEY
Depth Seal:	50	SC:	32031
Depth Drilled:	230	HA:	086
Depth Bedrock:		Twn:	N20
Depth Cased:	230	Legal Twn:	20N
Qual Const Data:	G	Rng:	E19
Qual Lith Data:	G	Legal Rng:	19E
Gravel Pack Top:	0	Sec:	13
Gravel Pack Bot:	0	Sec Quarters:	BC
Gravel Packed:	Y	Legal Quarters:	SW NW
Top Perf:	176	Quarters Seq:	
Bottom Perf:	230	Latitude:	39.60194396972656
Perf Intervals:	2	Longitude:	119.80416870117188
Casing Diameter:	6.62	Lat Long Src:	NV003

Wells and Additional Sources Detail Report

Casing Reductions:	0	Lat Long Acc:	T
Update User ID:		Utm X:	259228.64067206078
Date Entry:		Utm Y:	4387126.682951889
Date Update:		Remarks Add:	
Date Cmpl Acc:	D		
Owner Address:	5735 JIM DENNING SPARKS NV		
Contractor Addr:	P O BOX 12370 RENO NV 89510		
Remarks:			

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
60	NW	0.84	4,438.10	5,084.41	WATER WELLS

Well Log:	17327	Notice of Intent:	0
Waiver No:		Yield:	20.0
Sequence No:	78956	Drawdown:	
Date Log Rcvd Acc:	D	Hours Pumped:	
Date Log Rcvd:	12/15/1977	Static Wl:	56.0
Well Start Date:	12/08/1977	Temperature:	
Well Finish Date:	12/08/1977	Ref:	MD
Edit Status:	F	App:	
Site Type Code:	N	Source Agency:	NV003
Site Type Desc:	New	Owner No:	
Work Type Code:	N	Owner Current:	KOBURT
Work Type Desc:	New	Driller Lic No:	899
Work Type Rmks:		Contractor Lic No:	6589
Prop Use Code:	H	Contractor Drlr No:	
Prop Use Desc:	Domestic	Contractor Name:	BURT DRILLING CO
Drilling Mthd Code:	A	User ID:	DBRANTLEY
Drilling Mthd Desc:	Air Rotary	Parcel No:	88-220-13
Test Method Code:	J	Lot No:	
Test Mthd Desc:	Jet Pump	Block No:	
Aquifer Desc:		Subdivision Name:	
Depth Seal:	50	SC:	32031
Depth Drilled:	130	HA:	086
Depth Bedrock:		Twn:	N20
Depth Cased:	110	Legal Twn:	20N
Qual Const Data:	G	Rng:	E19
Qual Lith Data:	G	Legal Rng:	19E
Gravel Pack Top:	50	Sec:	13
Gravel Pack Bot:	110	Sec Quarters:	BC
Gravel Packed:	Y	Legal Quarters:	SW NW
Top Perf:	70	Quarters Seq:	
Bottom Perf:	110	Latitude:	39.60194396972656
Perf Intervals:	1	Longitude:	119.80445098876953
Casing Diameter:	6.625	Lat Long Src:	NV003
Casing Reductions:	0	Lat Long Acc:	M

Wells and Additional Sources Detail Report

Update User ID:	SCOX	Utm X:	259204.786514561
Date Entry:	02/25/2004	Utm Y:	4387127.42779103
Date Update:	03/25/2004	Remarks Add:	
Date Cmpl Acc:	D		
Owner Address:	5720 FLYNN DR		
Contractor Addr:	P O BOX 12 SPRINGVILLE UT 84663		
Remarks:			

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
60	NW	0.84	4,438.10	5,084.41	WATER WELLS

Well Log:	89970	Notice of Intent:	50757
Waiver No:		Yield:	30.0
Sequence No:	73557	Drawdown:	
Date Log Rcvd Acc:	D	Hours Pumped:	2.0
Date Log Rcvd:	06/03/2002	Static WI:	25.0
Well Start Date:	05/10/2002	Temperature:	
Well Finish Date:	05/13/2002	Ref:	MD
Edit Status:	F	App:	
Site Type Code:	N	Source Agency:	NV003
Site Type Desc:	New	Owner No:	
Work Type Code:	N	Owner Current:	STANKOVICH, GEORGE & CAROL
Work Type Desc:	New	Driller Lic No:	1878
Work Type Rmks:		Contractor Lic No:	14170
Prop Use Code:	H	Contractor Drlr No:	
Prop Use Desc:	Domestic	Contractor Name:	MCKAY DRILLING INC
Drilling Mthd Code:	A	User ID:	DLAMB
Drilling Mthd Desc:	Air Rotary	Parcel No:	088-220-11
Test Method Code:	A	Lot No:	
Test Mthd Desc:	Air Lift	Block No:	
Aquifer Desc:		Subdivision Name:	
Depth Seal:	50	SC:	32031
Depth Drilled:	178	HA:	086
Depth Bedrock:		Twn:	N20
Depth Cased:	178	Legal Twn:	20N
Qual Const Data:	G	Rng:	E19
Qual Lith Data:	G	Legal Rng:	19E
Gravel Pack Top:		Sec:	13
Gravel Pack Bot:		Sec Quarters:	BC
Gravel Packed:		Legal Quarters:	SW NW
Top Perf:	138	Quarters Seq:	
Bottom Perf:	178	Latitude:	39.60194396972656
Perf Intervals:	1	Longitude:	119.80445098876953
Casing Diameter:	5.0	Lat Long Src:	NV003
Casing Reductions:	0	Lat Long Acc:	M
Update User ID:	DLAMB	Utm X:	259204.786514561

Wells and Additional Sources Detail Report

Date Entry:	07/22/2003	Utm Y:	4387127.42779103
Date Update:	09/25/2003	Remarks Add:	
Date Cmpl Acc:	D		
Owner Address:	5735 URSULA CT_SUN VALLEY		
Contractor Addr:	2290 PIONEER DR RENO NV 89509		
Remarks:			

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
63	NNW	0.88	4,621.07	5,083.82	WATER WELLS

Well Log:	24559	Notice of Intent:	0
Waiver No:		Yield:	7.0
Sequence No:	75901	Drawdown:	
Date Log Rcvd Acc:	D	Hours Pumped:	
Date Log Rcvd:	04/22/1983	Static Wl:	125.0
Well Start Date:	04/12/1983	Temperature:	
Well Finish Date:	04/13/1983	Ref:	MD
Edit Status:	F	App:	
Site Type Code:	N	Source Agency:	NV003
Site Type Desc:	New	Owner No:	
Work Type Code:	N	Owner Current:	FLANARY, GLEN
Work Type Desc:	New	Driller Lic No:	957
Work Type Rmks:		Contractor Lic No:	14483
Prop Use Code:	H	Contractor Drlr No:	
Prop Use Desc:	Domestic	Contractor Name:	PAUL WILLIAMS
Drilling Mthd Code:	H	User ID:	CLHUNT
Drilling Mthd Desc:	Hydraulic Rotary-Mud	Parcel No:	88-210-31
Test Method Code:	U	Lot No:	2
Test Mthd Desc:	Unknown	Block No:	
Aquifer Desc:		Subdivision Name:	SUN VALLEY
Depth Seal:	66	SC:	32031
Depth Drilled:	227	HA:	086
Depth Bedrock:		Twn:	N20
Depth Cased:	227	Legal Twn:	20N
Qual Const Data:	G	Rng:	E19
Qual Lith Data:	G	Legal Rng:	19E
Gravel Pack Top:	66	Sec:	13
Gravel Pack Bot:	227	Sec Quarters:	B
Gravel Packed:	Y	Legal Quarters:	NW
Top Perf:	145	Quarters Seq:	
Bottom Perf:	227	Latitude:	39.603885650634766
Perf Intervals:	1	Longitude:	119.80194854736328
Casing Diameter:	6.625	Lat Long Src:	NV003
Casing Reductions:	0	Lat Long Acc:	M
Update User ID:		Utm X:	259426.208024965
Date Entry:	10/28/2003	Utm Y:	4387336.57122871

Wells and Additional Sources Detail Report

Date Update: Remarks Add:
 Date Cmpl Acc: D
 Owner Address: BUTLER LANE
 Contractor Addr: 22 SOUTH PATERSON SPARKS
 Remarks:

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
63	NNW	0.88	4,621.07	5,083.82	WATER WELLS

Well Log:	31252	Notice of Intent:	11945
Waiver No:		Yield:	
Sequence No:	6901	Drawdown:	
Date Log Rcvd Acc:	D	Hours Pumped:	
Date Log Rcvd:	03/13/1989	Static Wl:	90.0
Well Start Date:		Temperature:	
Well Finish Date:	03/01/1989	Ref:	MD
Edit Status:	F	App:	
Site Type Code:	N	Source Agency:	NV003
Site Type Desc:	New	Owner No:	
Work Type Code:	N	Owner Current:	KNOLLHOFF, PETE
Work Type Desc:	New	Driller Lic No:	1511
Work Type Rmks:		Contractor Lic No:	15291
Prop Use Code:	H	Contractor Drlr No:	1132
Prop Use Desc:	Domestic	Contractor Name:	AQUA DRILLING & WELL SERVICE
Drilling Mthd Code:	A	User ID:	NAFLECKS
Drilling Mthd Desc:	Air Rotary	Parcel No:	088-210-45
Test Method Code:	C	Lot No:	
Test Mthd Desc:	Centrifugal Pump	Block No:	
Aquifer Desc:		Subdivision Name:	
Depth Seal:	52	SC:	32031
Depth Drilled:	200	HA:	086
Depth Bedrock:		Twn:	N20
Depth Cased:	200	Legal Twn:	20N
Qual Const Data:	G	Rng:	E19
Qual Lith Data:	G	Legal Rng:	19E
Gravel Pack Top:	0	Sec:	13
Gravel Pack Bot:	0	Sec Quarters:	B
Gravel Packed:	Y	Legal Quarters:	NW
Top Perf:	180	Quarters Seq:	
Bottom Perf:	200	Latitude:	39.603885650634766
Perf Intervals:	1	Longitude:	119.80194854736328
Casing Diameter:	6.62	Lat Long Src:	NV003
Casing Reductions:	0	Lat Long Acc:	M
Update User ID:		Utm X:	259426.20802492567
Date Entry:		Utm Y:	4387336.571228707
Date Update:		Remarks Add:	

Wells and Additional Sources Detail Report

Date Cmpl Acc: D
 Owner Address: 550 QUARTZ RENO NV
 Contractor Addr: 625 SPICE ISL DR STE L SPARKS
 Remarks:

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
66	N	0.89	4,676.26	4,968.68	WATER WELLS

Well Log: 30700	Notice of Intent: 10031
Waiver No:	Yield:
Sequence No: 6344	Drawdown:
Date Log Rcvd Acc: D	Hours Pumped:
Date Log Rcvd: 12/15/1988	Static Wl: 85.0
Well Start Date:	Temperature:
Well Finish Date: 11/29/1988	Ref: MD
Edit Status: F	App:
Site Type Code: N	Source Agency: NV003
Site Type Desc: New	Owner No:
Work Type Code: N	Owner Current: WILHELMI, JODY
Work Type Desc: New	Driller Lic No: 1482
Work Type Rmks:	Contractor Lic No: 21246
Prop Use Code: H	Contractor Drlr No: 1391
Prop Use Desc: Domestic	Contractor Name: SARGENT IRRIGATION INC
Drilling Mthd Code: R	User ID: NAFLECKS
Drilling Mthd Desc: Reverse rotary	Parcel No: 88-220-20
Test Method Code:	Lot No:
Test Mthd Desc:	Block No:
Aquifer Desc:	Subdivision Name:
Depth Seal: 50	SC: 32031
Depth Drilled: 230	HA: 086
Depth Bedrock:	Twn: N20
Depth Cased: 230	Legal Twn: 20N
Qual Const Data: G	Rng: E19
Qual Lith Data: G	Legal Rng: 19E
Gravel Pack Top: 0	Sec: 13
Gravel Pack Bot: 0	Sec Quarters: AB
Gravel Packed: Y	Legal Quarters: NW NE
Top Perf: 170	Quarters Seq:
Bottom Perf: 230	Latitude: 39.605552673339844
Perf Intervals: 1	Longitude: 119.79472351074219
Casing Diameter: 6.62	Lat Long Src: NV003
Casing Reductions: 0	Lat Long Acc: T
Update User ID:	Utm X: 260052.1555556214
Date Entry:	Utm Y: 4387502.255741677
Date Update:	Remarks Add:
Date Cmpl Acc: D	

Wells and Additional Sources Detail Report

Owner Address: 5756 FLINN SUN VALLEY NV 89433
 Contractor Addr: 9955 N VIRGINIA RENO NV 89506
 Remarks:

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
66	N	0.89	4,676.26	4,968.68	WATER WELLS

Well Log:	48567	Notice of Intent:	29007		
Waiver No:		Yield:	30.0		
Sequence No:	25125	Drawdown:			
Date Log Rcvd Acc:	D	Hours Pumped:			
Date Log Rcvd:	08/21/1995	Static Wl:	75.0		
Well Start Date:	08/02/1995	Temperature:			
Well Finish Date:	08/03/1995	Ref:	MD		
Edit Status:	F	App:			
Site Type Code:	N	Source Agency:	NV003		
Site Type Desc:	New	Owner No:			
Work Type Code:	N	Owner Current:	NELSON, CHRIS		
Work Type Desc:	New	Driller Lic No:	1719		
Work Type Rmks:		Contractor Lic No:	23096		
Prop Use Code:	H	Contractor Drlr No:			
Prop Use Desc:	Domestic	Contractor Name:	MACKAY PUMP & GEOTHERMAL INC		
Drilling Mthd Code:	A	User ID:	BJFOSTER		
Drilling Mthd Desc:	Air Rotary	Parcel No:	88-220-23		
Test Method Code:	A	Lot No:			
Test Mthd Desc:	Air Lift	Block No:			
Aquifer Desc:		Subdivision Name:			
Depth Seal:	50	SC:	32031		
Depth Drilled:	246	HA:	086		
Depth Bedrock:		Twn:	N20		
Depth Cased:	246	Legal Twn:	20N		
Qual Const Data:	G	Rng:	E19		
Qual Lith Data:	G	Legal Rng:	19E		
Gravel Pack Top:	50	Sec:	13		
Gravel Pack Bot:	246	Sec Quarters:	AB		
Gravel Packed:	Y	Legal Quarters:	NW NE		
Top Perf:	226	Quarters Seq:			
Bottom Perf:	246	Latitude:	39.605552673339844		
Perf Intervals:	1	Longitude:	119.79472351074219		
Casing Diameter:	6.62	Lat Long Src:	NV003		
Casing Reductions:	0	Lat Long Acc:	T		
Update User ID:		Utm X:	260052.1555556214		
Date Entry:	10/11/1995	Utm Y:	4387502.255741677		
Date Update:		Remarks Add:			
Date Cmpl Acc:	D				
Owner Address:	532 QUARTZ SUN VALLEY NV				

Wells and Additional Sources Detail Report

Contractor Addr: 1600 MT ROSE HWY RENO NV
 Remarks: WASHOE CO PERMIT=5448

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
67	N	0.89	4,679.54	4,978.95	WATER WELLS

Well Log: 9812	Notice of Intent: 0
Waiver No:	Yield: 15.0
Sequence No: 78958	Drawdown: 18.0
Date Log Rcvd Acc: D	Hours Pumped: 2.0
Date Log Rcvd: 12/05/1967	Static Wl: 12.0
Well Start Date:	Temperature:
Well Finish Date:	Ref: MD
Edit Status: F	App:
Site Type Code: N	Source Agency: NV003
Site Type Desc: New	Owner No:
Work Type Code: N	Owner Current: GOLDEN, DOROTHY & HOGGS
Work Type Desc: New	Driller Lic No: 242
Work Type Rmks:	Contractor Lic No: 6724
Prop Use Code: H	Contractor Drlr No:
Prop Use Desc: Domestic	Contractor Name: J W CUNNINGHAM
Drilling Mthd Code: C	User ID: DBRANTLEY
Drilling Mthd Desc: Cable tool	Parcel No:
Test Method Code: B	Lot No:
Test Mthd Desc: Bucket	Block No:
Aquifer Desc:	Subdivision Name:
Depth Seal: 50	SC: 32031
Depth Drilled: 80	HA: 086
Depth Bedrock:	Twn: N20
Depth Cased: 80	Legal Twn: 20N
Qual Const Data: G	Rng: E19
Qual Lith Data: G	Legal Rng: 19E
Gravel Pack Top:	Sec: 13
Gravel Pack Bot:	Sec Quarters: AB
Gravel Packed:	Legal Quarters: NW NE
Top Perf: 60	Quarters Seq:
Bottom Perf: 80	Latitude: 39.605552673339844
Perf Intervals: 1	Longitude: 119.79499816894531
Casing Diameter: 6.625	Lat Long Src: NV003
Casing Reductions: 0	Lat Long Acc: M
Update User ID: SCOX	Utm X: 260028.30267673
Date Entry: 02/25/2004	Utm Y: 4387502.99808507
Date Update: 03/25/2004	Remarks Add:
Date Cmpl Acc:	
Owner Address: QUARTZ LN	
Contractor Addr: RT 1 BOX 844 RENO NV	

Wells and Additional Sources Detail Report

Remarks:

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
67	N	0.89	4,679.54	4,978.95	WATER WELLS

Well Log:	4411	Notice of Intent:	0
Waiver No:		Yield:	5.0
Sequence No:	78959	Drawdown:	35.0
Date Log Rcvd Acc:	D	Hours Pumped:	
Date Log Rcvd:	02/24/1959	Static Wl:	90.0
Well Start Date:		Temperature:	
Well Finish Date:	02/08/1959	Ref:	MD
Edit Status:	F	App:	
Site Type Code:	N	Source Agency:	NV003
Site Type Desc:	New	Owner No:	
Work Type Code:	N	Owner Current:	GEPFORD, H L
Work Type Desc:	New	Driller Lic No:	287
Work Type Rmks:		Contractor Lic No:	287
Prop Use Code:	H	Contractor Drlr No:	
Prop Use Desc:	Domestic	Contractor Name:	M ARTLIP
Drilling Mthd Code:	C	User ID:	DBRANTLEY
Drilling Mthd Desc:	Cable tool	Parcel No:	
Test Method Code:	B	Lot No:	
Test Mthd Desc:	Bucket	Block No:	
Aquifer Desc:		Subdivision Name:	
Depth Seal:		SC:	32031
Depth Drilled:	150	HA:	086
Depth Bedrock:		Twn:	N20
Depth Cased:	150	Legal Twn:	20N
Qual Const Data:	G	Rng:	E19
Qual Lith Data:	G	Legal Rng:	19E
Gravel Pack Top:		Sec:	13
Gravel Pack Bot:		Sec Quarters:	AB
Gravel Packed:	N	Legal Quarters:	NW NE
Top Perf:		Quarters Seq:	
Bottom Perf:		Latitude:	39.605552673339844
Perf Intervals:		Longitude:	119.79499816894531
Casing Diameter:	6.0	Lat Long Src:	NV003
Casing Reductions:	0	Lat Long Acc:	M
Update User ID:	SCOX	Utm X:	260028.30267673
Date Entry:	02/25/2004	Utm Y:	4387502.99808507
Date Update:	03/24/2004	Remarks Add:	
Date Cmpl Acc:	D		
Owner Address:	15TH & PRATER WY		
Contractor Addr:	SUN VALLEY		
Remarks:			

Wells and Additional Sources Detail Report

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
67	N	0.89	4,679.54	4,978.95	WATER WELLS

Well Log:	21236	Notice of Intent:	0
Waiver No:		Yield:	30.0
Sequence No:	75905	Drawdown:	0.0
Date Log Rcvd Acc:	D	Hours Pumped:	10.0
Date Log Rcvd:	06/26/1980	Static Wl:	53.0
Well Start Date:	06/12/1980	Temperature:	
Well Finish Date:	06/20/1980	Ref:	MD
Edit Status:	F	App:	
Site Type Code:	N	Source Agency:	NV003
Site Type Desc:	New	Owner No:	
Work Type Code:	N	Owner Current:	VURNOVAS, CHRISTY AND DOROTHY
Work Type Desc:	New	Driller Lic No:	726
Work Type Rmks:		Contractor Lic No:	14299
Prop Use Code:	H	Contractor Drlr No:	
Prop Use Desc:	Domestic	Contractor Name:	ACE DRILLING & DEVELOPMENT
Drilling Mthd Code:	H	User ID:	CLHUNT
Drilling Mthd Desc:	Hydraulic Rotary-Mud	Parcel No:	
Test Method Code:	B	Lot No:	
Test Mthd Desc:	Bucket	Block No:	
Aquifer Desc:		Subdivision Name:	
Depth Seal:	60	SC:	32031
Depth Drilled:	200	HA:	086
Depth Bedrock:		Twn:	N20
Depth Cased:	200	Legal Twn:	20N
Qual Const Data:	G	Rng:	E19
Qual Lith Data:	G	Legal Rng:	19E
Gravel Pack Top:	60	Sec:	13
Gravel Pack Bot:	200	Sec Quarters:	AB
Gravel Packed:	Y	Legal Quarters:	NW NE
Top Perf:	140	Quarters Seq:	
Bottom Perf:	200	Latitude:	39.605552673339844
Perf Intervals:	1	Longitude:	119.79499816894531
Casing Diameter:	18.0	Lat Long Src:	NV003
Casing Reductions:	1	Lat Long Acc:	M
Update User ID:		Utm X:	260028.30267673
Date Entry:	10/28/2003	Utm Y:	4387502.99808507
Date Update:		Remarks Add:	
Date Cmpl Acc:	D		
Owner Address:	551 QUARTZ LANE RENO		
Contractor Addr:	10655 SILVER KNOLLS BLVD RENO NV 89506		
Remarks:			

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
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Wells and Additional Sources Detail Report

68 N 0.89 4,687.59 4,946.88 WATER WELLS

Well Log: 67626 Waiver No: Sequence No: 46190 Date Log Rcvd Acc: D Date Log Rcvd: 06/26/1997 Well Start Date: 06/12/1997 Well Finish Date: 06/12/1997 Edit Status: F Site Type Code: N Site Type Desc: New Work Type Code: N Work Type Desc: New Work Type Rmks: Prop Use Code: H Prop Use Desc: Domestic Drilling Mthd Code: A Drilling Mthd Desc: Air Rotary Test Method Code: A Test Mthd Desc: Air Lift Aquifer Desc: Depth Seal: 50 Depth Drilled: 60 Depth Bedrock: Depth Cased: 60 Qual Const Data: G Qual Lith Data: G Gravel Pack Top: 0 Gravel Pack Bot: 0 Gravel Packed: Top Perf: 50 Bottom Perf: 60 Perf Intervals: 1 Casing Diameter: 6.62 Casing Reductions: 0 Update User ID: user62 Date Entry: 09/25/1997 Date Update: 11/14/1997 Date Cmpl Acc: D Owner Address: 425 QUARTZ LN SUN VALLEY NV Contractor Addr: 1600 MT ROSE HWY RENO NV 89511 Remarks:	Notice of Intent: 34816 Yield: 25.0 Drawdown: Hours Pumped: 1.0 Static Wl: 15.0 Temperature: Ref: MD App: Source Agency: NV003 Owner No: Owner Current: HAYES, RICHARD & LILA Driller Lic No: 1719 Contractor Lic No: 23096 Contractor Drlr No: Contractor Name: BRUCE MACKAY PUMP AND WELL SERVICE INC User ID: DSPELTS Parcel No: 088-220-05 Lot No: Block No: Subdivision Name: SC: 32031 HA: 086 Twn: N20 Legal Twn: 20N Rng: E19 Legal Rng: 19E Sec: 13 Sec Quarters: AA Legal Quarters: NE NE Quarters Seq: Latitude: 39.605552673339844 Longitude: 119.79000091552734 Lat Long Src: NV003 Lat Long Acc: T Utm X: 260457.65433410188 Utm Y: 4387489.647215612 Remarks Add:
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Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
68	N	0.89	4,687.59	4,946.88	WATER WELLS

Wells and Additional Sources Detail Report

Well Log:	30120	Notice of Intent:	10296
Waiver No:		Yield:	
Sequence No:	5762	Drawdown:	
Date Log Rcvd Acc:	D	Hours Pumped:	
Date Log Rcvd:	07/06/1988	Static Wl:	66.0
Well Start Date:		Temperature:	
Well Finish Date:	06/29/1988	Ref:	MD
Edit Status:	F	App:	
Site Type Code:	N	Source Agency:	NV003
Site Type Desc:	New	Owner No:	
Work Type Code:	N	Owner Current:	HAGAN, LARRY
Work Type Desc:	New	Driller Lic No:	923
Work Type Rmks:		Contractor Lic No:	22549
Prop Use Code:	X	Contractor Drlr No:	908
Prop Use Desc:	Test Well	Contractor Name:	WAYNE DRILLING INC
Drilling Mthd Code:	A	User ID:	NAFLECKS
Drilling Mthd Desc:	Air Rotary	Parcel No:	
Test Method Code:		Lot No:	
Test Mthd Desc:		Block No:	
Aquifer Desc:		Subdivision Name:	SUN VALLEY
Depth Seal:	50	SC:	32031
Depth Drilled:	244	HA:	086
Depth Bedrock:		Twn:	N20
Depth Cased:	244	Legal Twn:	20N
Qual Const Data:	G	Rng:	E19
Qual Lith Data:	G	Legal Rng:	19E
Gravel Pack Top:	0	Sec:	13
Gravel Pack Bot:	0	Sec Quarters:	AA
Gravel Packed:	Y	Legal Quarters:	NE NE
Top Perf:	199	Quarters Seq:	
Bottom Perf:	239	Latitude:	39.605552673339844
Perf Intervals:	1	Longitude:	119.79000091552734
Casing Diameter:	6.62	Lat Long Src:	NV003
Casing Reductions:	0	Lat Long Acc:	T
Update User ID:		Utm X:	260457.65433410188
Date Entry:		Utm Y:	4387489.647215612
Date Update:		Remarks Add:	
Date Cmpl Acc:	D		
Owner Address:	535 QUARTZ SUN VALLEY NV 89431		
Contractor Addr:	P O BOX 12370 RENO NV 89510		
Remarks:			

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
68	N	0.89	4,687.59	4,946.88	WATER WELLS

Wells and Additional Sources Detail Report

Well Log:	31459	Notice of Intent:	12493
Waiver No:		Yield:	
Sequence No:	7109	Drawdown:	
Date Log Rcvd Acc:	D	Hours Pumped:	
Date Log Rcvd:	04/05/1989	Static Wl:	90.0
Well Start Date:		Temperature:	
Well Finish Date:	03/23/1989	Ref:	MD
Edit Status:	F	App:	
Site Type Code:	N	Source Agency:	NV003
Site Type Desc:	New	Owner No:	
Work Type Code:	N	Owner Current:	JOE ALT AMERICAN CONST
Work Type Desc:	New	Driller Lic No:	923
Work Type Rmks:		Contractor Lic No:	22549
Prop Use Code:	H	Contractor Drlr No:	908
Prop Use Desc:	Domestic	Contractor Name:	WAYNE DRILLING INC
Drilling Mthd Code:	A	User ID:	NAFLECKS
Drilling Mthd Desc:	Air Rotary	Parcel No:	
Test Method Code:		Lot No:	
Test Mthd Desc:		Block No:	
Aquifer Desc:		Subdivision Name:	SUN VALLEY
Depth Seal:	50	SC:	32031
Depth Drilled:	260	HA:	086
Depth Bedrock:		Twn:	N20
Depth Cased:	260	Legal Twn:	20N
Qual Const Data:	G	Rng:	E19
Qual Lith Data:	G	Legal Rng:	19E
Gravel Pack Top:	0	Sec:	13
Gravel Pack Bot:	0	Sec Quarters:	AA
Gravel Packed:	Y	Legal Quarters:	NE NE
Top Perf:	145	Quarters Seq:	
Bottom Perf:	255	Latitude:	39.605552673339844
Perf Intervals:	3	Longitude:	119.79000091552734
Casing Diameter:	6.62	Lat Long Src:	NV003
Casing Reductions:	0	Lat Long Acc:	T
Update User ID:		Utm X:	260457.65433410188
Date Entry:		Utm Y:	4387489.647215612
Date Update:		Remarks Add:	
Date Cmpl Acc:	D		
Owner Address:	560 QUARTZ SUN VALLEY NV 89433		
Contractor Addr:	P O BOX 12370 RENO NV 89510		
Remarks:			

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
69	N	0.89	4,687.68	4,960.70	WATER WELLS

Well Log:	96146	Notice of Intent:	54714
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Wells and Additional Sources Detail Report

Waiver No:	R-487	Yield:	
Sequence No:	92631	Drawdown:	
Date Log Rcvd Acc:	D	Hours Pumped:	
Date Log Rcvd:	04/20/2005	Static Wl:	26.0
Well Start Date:	04/13/2005	Temperature:	
Well Finish Date:	04/13/2005	Ref:	MD
Edit Status:	F	App:	
Site Type Code:	E	Source Agency:	NV003
Site Type Desc:	Existing (Deepen)	Owner No:	
Work Type Code:	P	Owner Current:	HAYES, HYLEA
Work Type Desc:	Plug or Abandonment	Driller Lic No:	2271
Work Type Rmks:	WL 040301	Contractor Lic No:	23096
Prop Use Code:	H	Contractor Drlr No:	
Prop Use Desc:	Domestic	Contractor Name:	BRUCE MACKAY PUMP AND WELL SERVICE INC
Drilling Mthd Code:	C	User ID:	MTHORSON
Drilling Mthd Desc:	Cable tool	Parcel No:	88-220-06
Test Method Code:		Lot No:	
Test Mthd Desc:		Block No:	
Aquifer Desc:		Subdivision Name:	
Depth Seal:	44	SC:	32031
Depth Drilled:	44	HA:	086
Depth Bedrock:		Twn:	N20
Depth Cased:	44	Legal Twn:	20N
Qual Const Data:	G	Rng:	E19
Qual Lith Data:	G	Legal Rng:	19E
Gravel Pack Top:		Sec:	13
Gravel Pack Bot:		Sec Quarters:	AA
Gravel Packed:	N	Legal Quarters:	NE NE
Top Perf:		Quarters Seq:	
Bottom Perf:		Latitude:	39.6055555555556
Perf Intervals:	1	Longitude:	119.790277777778
Casing Diameter:	6.625	Lat Long Src:	
Casing Reductions:	1	Lat Long Acc:	M
Update User ID:	MTHORSON	Utm X:	260433.801473261
Date Entry:	05/03/2005	Utm Y:	4387490.38830217
Date Update:	05/05/2005	Remarks Add:	
Date Cmpl Acc:	D		
Owner Address:	445 QUARTZ LANE		
Contractor Addr:	1600 MT ROSE HWY RENO NV 89511		
Remarks:			

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
69	N	0.89	4,687.68	4,960.70	WATER WELLS

Well Log:	96012	Notice of Intent:	54713
Waiver No:		Yield:	18.0

Wells and Additional Sources Detail Report

Sequence No:	92040	Drawdown:	1.0
Date Log Rcvd Acc:	D	Hours Pumped:	1.0
Date Log Rcvd:	04/05/2005	Static Wl:	24.0
Well Start Date:	03/17/2005	Temperature:	
Well Finish Date:	03/18/2005	Ref:	MD
Edit Status:	F	App:	
Site Type Code:	N	Source Agency:	NV003
Site Type Desc:	New	Owner No:	
Work Type Code:	N	Owner Current:	HAYES, HYLA
Work Type Desc:	New	Driller Lic No:	2205
Work Type Rmks:		Contractor Lic No:	23096
Prop Use Code:	H	Contractor Drlr No:	
Prop Use Desc:	Domestic	Contractor Name:	BRUCE MACKAY PUMP AND WELL SERVICE INC
Drilling Mthd Code:	A	User ID:	MTHORSON
Drilling Mthd Desc:	Air Rotary	Parcel No:	88-220-06
Test Method Code:	P	Lot No:	
Test Mthd Desc:	Piston Pump	Block No:	
Aquifer Desc:		Subdivision Name:	
Depth Seal:	45	SC:	32031
Depth Drilled:	70	HA:	086
Depth Bedrock:		Twn:	N20
Depth Cased:	65	Legal Twn:	20N
Qual Const Data:	G	Rng:	E19
Qual Lith Data:	G	Legal Rng:	19E
Gravel Pack Top:	45	Sec:	13
Gravel Pack Bot:	65	Sec Quarters:	AA
Gravel Packed:	Y	Legal Quarters:	NE NE
Top Perf:	45	Quarters Seq:	
Bottom Perf:	65	Latitude:	39.6055555555556
Perf Intervals:	1	Longitude:	119.790277777778
Casing Diameter:	6.625	Lat Long Src:	
Casing Reductions:	0	Lat Long Acc:	M
Update User ID:	MTHORSON	Utm X:	260433.801473261
Date Entry:	04/22/2005	Utm Y:	4387490.38830217
Date Update:	05/02/2005	Remarks Add:	
Date Cmpl Acc:	D		
Owner Address:	445 QUARTZ LANE, SUN VALLEY		
Contractor Addr:	1600 MT ROSE HWY RENO NV 89511		
Remarks:	WL 040301		

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
70	NNW	0.89	4,698.92	5,066.93	WATER WELLS

Well Log:	123707	Notice of Intent:	73430
Waiver No:	DOM1558	Yield:	14.0
Sequence No:	123719	Drawdown:	105.0

Wells and Additional Sources Detail Report

Date Log Rcvd Acc:	D	Hours Pumped:	4.0
Date Log Rcvd:	09/30/2015	Static Wl:	140.0
Well Start Date:	09/21/2015	Temperature:	59.0
Well Finish Date:	09/21/2015	Ref:	MD
Edit Status:	F	App:	
Site Type Code:	E	Source Agency:	NV003
Site Type Desc:	Existing (Deepen)	Owner No:	
Work Type Code:	D	Owner Current:	REDMOND HERRERA
Work Type Desc:	Deepen	Driller Lic No:	1790
Work Type Rmks:	DEEPENING WELL LOG 27852	Contractor Lic No:	23096
Prop Use Code:	H	Contractor Drlr No:	
Prop Use Desc:	Domestic	Contractor Name:	BRUCE MACKAY PUMP & WELL SERVICE INC
Drilling Mthd Code:	A	User ID:	RRANSDELL
Drilling Mthd Desc:	Air Rotary	Parcel No:	088-210-32
Test Method Code:	P	Lot No:	
Test Mthd Desc:	Piston Pump	Block No:	
Aquifer Desc:		Subdivision Name:	
Depth Seal:		SC:	32031
Depth Drilled:	405	HA:	086
Depth Bedrock:		Twn:	N20
Depth Cased:	405	Legal Twn:	20N
Qual Const Data:	G	Rng:	E19
Qual Lith Data:	G	Legal Rng:	19E
Gravel Pack Top:		Sec:	13
Gravel Pack Bot:		Sec Quarters:	BA
Gravel Packed:	N	Legal Quarters:	NE NW
Top Perf:	325	Quarters Seq:	
Bottom Perf:	345	Latitude:	39.604201
Perf Intervals:	1	Longitude:	119.801767
Casing Diameter:	5.0	Lat Long Src:	
Casing Reductions:	0	Lat Long Acc:	
Update User ID:		Utm X:	259442.526508924
Date Entry:	11/30/2015	Utm Y:	4387370.74193824
Date Update:		Remarks Add:	
Date Cmpl Acc:	D		
Owner Address:	5770 BILLER LN SUN VALLEY NV		
Contractor Addr:	1600 MT ROSE HWY RENO, NV 89511		
Remarks:			

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
71	NNE	0.91	4,805.54	4,902.75	WATER WELLS

Well Log:	14943	Notice of Intent:	0
Waiver No:		Yield:	
Sequence No:	95978	Drawdown:	
Date Log Rcvd Acc:		Hours Pumped:	

Wells and Additional Sources Detail Report

Date Log Rcvd:		Static WI:	4.0
Well Start Date:	05/18/1950	Temperature:	
Well Finish Date:	05/24/1950	Ref:	MD
Edit Status:	F	App:	
Site Type Code:	N	Source Agency:	NV003
Site Type Desc:	New	Owner No:	
Work Type Code:	N	Owner Current:	MORTON, LEE
Work Type Desc:	New	Driller Lic No:	3
Work Type Rmks:		Contractor Lic No:	
Prop Use Code:	H	Contractor Drlr No:	
Prop Use Desc:	Domestic	Contractor Name:	MEL MEYER
Drilling Mthd Code:	C	User ID:	MTHORSON
Drilling Mthd Desc:	Cable tool	Parcel No:	
Test Method Code:		Lot No:	
Test Mthd Desc:		Block No:	
Aquifer Desc:		Subdivision Name:	
Depth Seal:		SC:	32031
Depth Drilled:	186	HA:	087
Depth Bedrock:		Twn:	N20
Depth Cased:	160	Legal Twn:	20N
Qual Const Data:	G	Rng:	E20
Qual Lith Data:	G	Legal Rng:	20E
Gravel Pack Top:		Sec:	18
Gravel Pack Bot:		Sec Quarters:	BB
Gravel Packed:		Legal Quarters:	NW NW
Top Perf:	164	Quarters Seq:	
Bottom Perf:	184	Latitude:	39.6055555555556
Perf Intervals:	1	Longitude:	119.785555555556
Casing Diameter:	6.0	Lat Long Src:	
Casing Reductions:	0	Lat Long Acc:	M
Update User ID:		Utm X:	260839.299962866
Date Entry:	07/20/2005	Utm Y:	4387477.79988532
Date Update:		Remarks Add:	
Date Cmpl Acc:	D		
Owner Address:			
Contractor Addr:	120 MOANA LANE RENO NV		
Remarks:			

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
71	NNE	0.91	4,805.54	4,900.62	WATER WELLS

Well Log:	1333	Notice of Intent:	0
Waiver No:		Yield:	30.0
Sequence No:	82159	Drawdown:	
Date Log Rcvd Acc:	D	Hours Pumped:	10.0
Date Log Rcvd:	06/20/1950	Static WI:	4.0

Wells and Additional Sources Detail Report

Well Start Date:	05/18/1950	Temperature:	
Well Finish Date:	05/24/1950	Ref:	MD
Edit Status:	F	App:	
Site Type Code:	N	Source Agency:	NV003
Site Type Desc:	New	Owner No:	
Work Type Code:	N	Owner Current:	MORTON, LEE
Work Type Desc:	New	Driller Lic No:	3
Work Type Rmks:		Contractor Lic No:	3
Prop Use Code:	H	Contractor Drlr No:	
Prop Use Desc:	Domestic	Contractor Name:	MEL MEYER
Drilling Mthd Code:	C	User ID:	SCOX
Drilling Mthd Desc:	Cable tool	Parcel No:	
Test Method Code:	A	Lot No:	
Test Mthd Desc:	Air Lift	Block No:	
Aquifer Desc:		Subdivision Name:	
Depth Seal:		SC:	32031
Depth Drilled:	186	HA:	086
Depth Bedrock:		Twn:	N20
Depth Cased:	160	Legal Twn:	20N
Qual Const Data:	G	Rng:	E20
Qual Lith Data:	G	Legal Rng:	20E
Gravel Pack Top:		Sec:	18
Gravel Pack Bot:		Sec Quarters:	BB
Gravel Packed:		Legal Quarters:	NW NW
Top Perf:	164	Quarters Seq:	
Bottom Perf:	184	Latitude:	39.605552673339844
Perf Intervals:	1	Longitude:	119.78555297851562
Casing Diameter:	6.0	Lat Long Src:	NV003
Casing Reductions:	0	Lat Long Acc:	M
Update User ID:	SCOX	Utm X:	260839.299962866
Date Entry:	05/12/2004	Utm Y:	4387477.79988532
Date Update:	06/02/2004	Remarks Add:	
Date Cmpl Acc:	D		
Owner Address:	SUN VALLEY		
Contractor Addr:	120 MOANA LANE RENO		
Remarks:			

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
71	NNE	0.91	4,805.54	4,900.62	WATER WELLS

Well Log:	67714	Notice of Intent:	33920
Waiver No:		Yield:	25.0
Sequence No:	46278	Drawdown:	
Date Log Rcvd Acc:	D	Hours Pumped:	
Date Log Rcvd:	06/02/1997	Static Wl:	42.0
Well Start Date:	05/27/1997	Temperature:	

Wells and Additional Sources Detail Report

Well Finish Date:	05/28/1997	Ref:	MD
Edit Status:	F	App:	
Site Type Code:	N	Source Agency:	NV003
Site Type Desc:	New	Owner No:	
Work Type Code:	N	Owner Current:	DAY, FRANK
Work Type Desc:	New	Driller Lic No:	923
Work Type Rmks:		Contractor Lic No:	22549
Prop Use Code:	H	Contractor Drlr No:	
Prop Use Desc:	Domestic	Contractor Name:	WAYNE DRILLING INC
Drilling Mthd Code:	A	User ID:	DSPELTS
Drilling Mthd Desc:	Air Rotary	Parcel No:	88-220-26
Test Method Code:	A	Lot No:	
Test Mthd Desc:	Air Lift	Block No:	
Aquifer Desc:		Subdivision Name:	SUN VALLEY
Depth Seal:	50	SC:	32031
Depth Drilled:	150	HA:	086
Depth Bedrock:		Twn:	N20
Depth Cased:	150	Legal Twn:	20N
Qual Const Data:	G	Rng:	E20
Qual Lith Data:	G	Legal Rng:	20E
Gravel Pack Top:	50	Sec:	18
Gravel Pack Bot:	150	Sec Quarters:	BB
Gravel Packed:	Y	Legal Quarters:	NW NW
Top Perf:	100	Quarters Seq:	
Bottom Perf:	140	Latitude:	39.605552673339844
Perf Intervals:	1	Longitude:	119.78555297851562
Casing Diameter:	6.62	Lat Long Src:	NV003
Casing Reductions:	0	Lat Long Acc:	T
Update User ID:		Utm X:	260839.2999629053
Date Entry:	09/30/1997	Utm Y:	4387477.799885317
Date Update:		Remarks Add:	
Date Cmpl Acc:	D		
Owner Address:	515 QUARTZ LN SPARKS NV		
Contractor Addr:	P O BOX 12370 RENO NV 89510		
Remarks:			

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
72	SE	0.91	4,811.42	4,659.37	WATER WELLS

Well Log:	2018	Notice of Intent:	0
Waiver No:		Yield:	50.0
Sequence No:	82345	Drawdown:	
Date Log Rcvd Acc:	D	Hours Pumped:	
Date Log Rcvd:	07/10/1952	Static Wl:	6.0
Well Start Date:	04/21/1952	Temperature:	
Well Finish Date:		Ref:	MD

Wells and Additional Sources Detail Report

Edit Status:	F	App:	
Site Type Code:	N	Source Agency:	NV003
Site Type Desc:	New	Owner No:	
Work Type Code:	N	Owner Current:	MC FARLAND
Work Type Desc:	New	Driller Lic No:	29
Work Type Rmks:		Contractor Lic No:	29
Prop Use Code:	H	Contractor Drlr No:	
Prop Use Desc:	Domestic	Contractor Name:	JOHN CHAMPION
Drilling Mthd Code:	C	User ID:	SCOX
Drilling Mthd Desc:	Cable tool	Parcel No:	
Test Method Code:	B	Lot No:	
Test Mthd Desc:	Bucket	Block No:	
Aquifer Desc:		Subdivision Name:	
Depth Seal:		SC:	32031
Depth Drilled:	88	HA:	086
Depth Bedrock:		Twn:	N20
Depth Cased:	88	Legal Twn:	20N
Qual Const Data:	G	Rng:	E20
Qual Lith Data:	G	Legal Rng:	20E
Gravel Pack Top:		Sec:	30
Gravel Pack Bot:		Sec Quarters:	AC
Gravel Packed:		Legal Quarters:	SW NE
Top Perf:	62	Quarters Seq:	
Bottom Perf:	80	Latitude:	39.573055267333984
Perf Intervals:	1	Longitude:	119.7763900756836
Casing Diameter:	6.0	Lat Long Src:	NV003
Casing Reductions:	0	Lat Long Acc:	M
Update User ID:	SCOX	Utm X:	261514.947926747
Date Entry:	05/13/2004	Utm Y:	4383845.76212656
Date Update:	05/13/2004	Remarks Add:	
Date Cmpl Acc:			
Owner Address:	SUN VALLEY		
Contractor Addr:	BOX 352 SO VIRGINIA RD		
Remarks:			

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
73	SSE	0.91	4,814.60	4,621.04	WATER WELLS

Well Log:	12197	Notice of Intent:	0
Waiver No:		Yield:	30.0
Sequence No:	82334	Drawdown:	
Date Log Rcvd Acc:	D	Hours Pumped:	
Date Log Rcvd:	04/10/1972	Static WI:	14.0
Well Start Date:	03/30/1972	Temperature:	
Well Finish Date:	03/30/1972	Ref:	MD
Edit Status:	F	App:	

Wells and Additional Sources Detail Report

Site Type Code: N	Source Agency: NV003
Site Type Desc: New	Owner No:
Work Type Code: N	Owner Current: MORLEY, FRED
Work Type Desc: New	Driller Lic No: 493
Work Type Rmks:	Contractor Lic No: 493
Prop Use Code: H	Contractor Drlr No:
Prop Use Desc: Domestic	Contractor Name: W L MC DONALD
Drilling Mthd Code: Z	User ID: SCOX
Drilling Mthd Desc: Other (explain in remarks)	Parcel No:
Test Method Code: A	Lot No:
Test Mthd Desc: Air Lift	Block No:
Aquifer Desc:	Subdivision Name:
Depth Seal: 52	SC: 32031
Depth Drilled: 80	HA: 086
Depth Bedrock:	Twn: N20
Depth Cased: 80	Legal Twn: 20N
Qual Const Data: G	Rng: E20
Qual Lith Data: G	Legal Rng: 20E
Gravel Pack Top:	Sec: 30
Gravel Pack Bot:	Sec Quarters:
Gravel Packed:	Legal Quarters:
Top Perf: 60	Quarters Seq:
Bottom Perf: 80	Latitude: 39.571388244628906
Perf Intervals: 1	Longitude: 119.77861785888672
Casing Diameter: 6.625	Lat Long Src: NV003
Casing Reductions: 0	Lat Long Acc: M
Update User ID: CLHUNT	Utm X: 261318.315787898
Date Entry: 05/13/2004	Utm Y: 4383666.65465445
Date Update: 05/21/2004	Remarks Add:
Date Cmpl Acc: D	
Owner Address: 5000 N SULIVAN LANE SPARKS	
Contractor Addr: 1955 18TH ST SPARKS	
Remarks: DRILLING METHOD=INGERSOL RAND T-4 DRILLMASTER	

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
73	SSE	0.91	4,814.60	4,621.04	WATER WELLS

Well Log: 3460	Notice of Intent: 0
Waiver No:	Yield:
Sequence No: 82339	Drawdown:
Date Log Rcvd Acc: D	Hours Pumped:
Date Log Rcvd: 07/02/1956	Static Wl: 40.0
Well Start Date: 05/29/1956	Temperature:
Well Finish Date: 06/01/1956	Ref: MD
Edit Status: F	App:
Site Type Code: N	Source Agency: NV003

Wells and Additional Sources Detail Report

Site Type Desc:	New	Owner No:	
Work Type Code:	N	Owner Current:	MARROW, Y S
Work Type Desc:	New	Driller Lic No:	29
Work Type Rmks:		Contractor Lic No:	29
Prop Use Code:	P	Contractor Drlr No:	
Prop Use Desc:	Public sup-municipal	Contractor Name:	JONH CHAMPION
Drilling Mthd Code:	C	User ID:	SCOX
Drilling Mthd Desc:	Cable tool	Parcel No:	
Test Method Code:		Lot No:	
Test Mthd Desc:		Block No:	
Aquifer Desc:		Subdivision Name:	
Depth Seal:		SC:	32031
Depth Drilled:	103	HA:	086
Depth Bedrock:		Twn:	N20
Depth Cased:	100	Legal Twn:	20N
Qual Const Data:	G	Rng:	E20
Qual Lith Data:	G	Legal Rng:	20E
Gravel Pack Top:		Sec:	30
Gravel Pack Bot:		Sec Quarters:	
Gravel Packed:		Legal Quarters:	
Top Perf:	80	Quarters Seq:	
Bottom Perf:	100	Latitude:	39.571388244628906
Perf Intervals:	1	Longitude:	119.77861785888672
Casing Diameter:		Lat Long Src:	NV003
Casing Reductions:	0	Lat Long Acc:	M
Update User ID:	SCOX	Utm X:	261318.315787898
Date Entry:	05/13/2004	Utm Y:	4383666.65465445
Date Update:	06/03/2004	Remarks Add:	
Date Cmpl Acc:	D		
Owner Address:	SUN VALLEY BAR SUN VALLEY DR		
Contractor Addr:	6390 SO VIRGINIA		
Remarks:			

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
73	SSE	0.91	4,814.60	4,621.04	WATER WELLS

Well Log:	2469	Notice of Intent:	0
Waiver No:		Yield:	15.0
Sequence No:	82341	Drawdown:	
Date Log Rcvd Acc:	D	Hours Pumped:	
Date Log Rcvd:	02/09/1954	Static WI:	81.0
Well Start Date:	01/19/1954	Temperature:	40.0
Well Finish Date:	01/22/1954	Ref:	MD
Edit Status:	F	App:	
Site Type Code:	N	Source Agency:	NV003
Site Type Desc:	New	Owner No:	

Wells and Additional Sources Detail Report

Work Type Code:	N	Owner Current:	DE LETT, LOUISE
Work Type Desc:	New	Driller Lic No:	164
Work Type Rmks:		Contractor Lic No:	164
Prop Use Code:	H	Contractor Drlr No:	
Prop Use Desc:	Domestic	Contractor Name:	GEPRGE POUNDER
Drilling Mthd Code:	U	User ID:	SCOX
Drilling Mthd Desc:	Unknown	Parcel No:	
Test Method Code:	P	Lot No:	
Test Mthd Desc:	Piston Pump	Block No:	
Aquifer Desc:		Subdivision Name:	
Depth Seal:		SC:	32031
Depth Drilled:	114	HA:	086
Depth Bedrock:		Twn:	N20
Depth Cased:	112	Legal Twn:	20N
Qual Const Data:	G	Rng:	E20
Qual Lith Data:	G	Legal Rng:	20E
Gravel Pack Top:		Sec:	30
Gravel Pack Bot:		Sec Quarters:	
Gravel Packed:		Legal Quarters:	
Top Perf:	50	Quarters Seq:	
Bottom Perf:	112	Latitude:	39.571388244628906
Perf Intervals:	1	Longitude:	119.77861785888672
Casing Diameter:	6.0	Lat Long Src:	NV003
Casing Reductions:	0	Lat Long Acc:	M
Update User ID:		Utm X:	261318.315787898
Date Entry:	05/13/2004	Utm Y:	4383666.65465445
Date Update:		Remarks Add:	
Date Cmpl Acc:	D		
Owner Address:	SUN VALLEY N E RENO		
Contractor Addr:	RT 1 BOX 445A RENO		
Remarks:			

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
74	NNW	0.93	4,905.40	5,086.95	WATER WELLS

Well Log:	26039	Notice of Intent:	4810
Waiver No:		Yield:	
Sequence No:	395	Drawdown:	
Date Log Rcvd Acc:		Hours Pumped:	
Date Log Rcvd:		Static Wl:	55.0
Well Start Date:		Temperature:	
Well Finish Date:	10/11/1984	Ref:	MD
Edit Status:	F	App:	
Site Type Code:	N	Source Agency:	NV003
Site Type Desc:	New	Owner No:	
Work Type Code:	N	Owner Current:	DORANE, EFRINE

Wells and Additional Sources Detail Report

Work Type Desc:	New	Driller Lic No:	923
Work Type Rmks:		Contractor Lic No:	14043
Prop Use Code:	H	Contractor Drlr No:	908
Prop Use Desc:	Domestic	Contractor Name:	WAYNE DRILLING INC
Drilling Mthd Code:	A	User ID:	
Drilling Mthd Desc:	Air Rotary	Parcel No:	88-220-16
Test Method Code:		Lot No:	
Test Mthd Desc:		Block No:	
Aquifer Desc:		Subdivision Name:	SUN VALLEY
Depth Seal:	53	SC:	32031
Depth Drilled:	110	HA:	086
Depth Bedrock:		Twn:	N20
Depth Cased:	110	Legal Twn:	20N
Qual Const Data:		Rng:	E19
Qual Lith Data:		Legal Rng:	19E
Gravel Pack Top:	0	Sec:	13
Gravel Pack Bot:	0	Sec Quarters:	BA
Gravel Packed:	Y	Legal Quarters:	NE NW
Top Perf:	60	Quarters Seq:	
Bottom Perf:	110	Latitude:	39.605552673339844
Perf Intervals:	2	Longitude:	119.79944610595703
Casing Diameter:	6.62	Lat Long Src:	NV003
Casing Reductions:	0	Lat Long Acc:	T
Update User ID:		Utm X:	259646.6564697281
Date Entry:		Utm Y:	4387514.885634
Date Update:		Remarks Add:	
Date Cmpl Acc:	D		
Owner Address:			
Contractor Addr:	P O BOX 12370 RENO NV 89510		
Remarks:	LOC. 549 QUARTZ RENO NV		

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
74	NNW	0.93	4,905.40	5,086.95	WATER WELLS

Well Log:	68653	Notice of Intent:	38318
Waiver No:		Yield:	15.0
Sequence No:	47221	Drawdown:	
Date Log Rcvd Acc:	D	Hours Pumped:	
Date Log Rcvd:	07/30/1997	Static Wl:	91.0
Well Start Date:	07/24/1997	Temperature:	
Well Finish Date:	07/25/1997	Ref:	MD
Edit Status:	F	App:	
Site Type Code:	N	Source Agency:	NV003
Site Type Desc:	New	Owner No:	
Work Type Code:	N	Owner Current:	FINNIG, EUGENE
Work Type Desc:	New	Driller Lic No:	923

Wells and Additional Sources Detail Report

Work Type Rmks:	Contractor Lic No: 22549
Prop Use Code: H	Contractor Drlr No:
Prop Use Desc: Domestic	Contractor Name: WAYNE DRILLING INC
Drilling Mthd Code: A	User ID: BKORDONOWY
Drilling Mthd Desc: Air Rotary	Parcel No: 88-210-48
Test Method Code: A	Lot No:
Test Mthd Desc: Air Lift	Block No:
Aquifer Desc:	Subdivision Name: SUN VALLEY
Depth Seal: 50	SC: 32031
Depth Drilled: 260	HA: 086
Depth Bedrock:	Twn: N20
Depth Cased: 260	Legal Twn: 20N
Qual Const Data: G	Rng: E19
Qual Lith Data: G	Legal Rng: 19E
Gravel Pack Top: 50	Sec: 13
Gravel Pack Bot: 260	Sec Quarters: BA
Gravel Packed: Y	Legal Quarters: NE NW
Top Perf: 220	Quarters Seq:
Bottom Perf: 260	Latitude: 39.605552673339844
Perf Intervals: 1	Longitude: 119.79944610595703
Casing Diameter: 6.62	Lat Long Src: NV003
Casing Reductions: 0	Lat Long Acc: T
Update User ID:	Utm X: 259646.6564697281
Date Entry: 11/07/1997	Utm Y: 4387514.885634
Date Update:	Remarks Add:
Date Cmpl Acc: D	
Owner Address: 580 QUARTZ SPARKS NV	
Contractor Addr: P O BOX 12370 RENO NV 89510	
Remarks:	

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
74	NNW	0.93	4,905.40	5,086.95	WATER WELLS

Well Log: 28115	Notice of Intent: 8491
Waiver No:	Yield:
Sequence No: 3038	Drawdown:
Date Log Rcvd Acc:	Hours Pumped:
Date Log Rcvd:	Static WI: 35.0
Well Start Date:	Temperature:
Well Finish Date: 02/20/1987	Ref: MD
Edit Status: F	App:
Site Type Code: N	Source Agency: NV003
Site Type Desc: New	Owner No:
Work Type Code: N	Owner Current: HAYES, RALPH
Work Type Desc: New	Driller Lic No: 923
Work Type Rmks:	Contractor Lic No: 22549

Wells and Additional Sources Detail Report

Prop Use Code:	H	Contractor Drlr No:	908
Prop Use Desc:	Domestic	Contractor Name:	WAYNE DRILLING INC
Drilling Mthd Code:	A	User ID:	JACOBONI
Drilling Mthd Desc:	Air Rotary	Parcel No:	88-220-07
Test Method Code:		Lot No:	
Test Mthd Desc:		Block No:	
Aquifer Desc:		Subdivision Name:	SUN VALLEY
Depth Seal:	50	SC:	32031
Depth Drilled:	125	HA:	086
Depth Bedrock:		Twn:	N20
Depth Cased:	125	Legal Twn:	20N
Qual Const Data:	G	Rng:	E19
Qual Lith Data:	G	Legal Rng:	19E
Gravel Pack Top:	0	Sec:	13
Gravel Pack Bot:	0	Sec Quarters:	BA
Gravel Packed:	Y	Legal Quarters:	NE NW
Top Perf:	99	Quarters Seq:	
Bottom Perf:	119	Latitude:	39.605552673339844
Perf Intervals:	1	Longitude:	119.79944610595703
Casing Diameter:	6.62	Lat Long Src:	NV003
Casing Reductions:	0	Lat Long Acc:	T
Update User ID:		Utm X:	259646.6564697281
Date Entry:		Utm Y:	4387514.885634
Date Update:		Remarks Add:	
Date Cmpl Acc:	D		
Owner Address:	QUARTZ LN SUN VLLY NV		
Contractor Addr:	P O BOX 12370 RENO NV 89510		
Remarks:			

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
75	NNW	0.93	4,929.47	5,092.98	WATER WELLS

Well Log:	22966	Notice of Intent:	0
Waiver No:		Yield:	15.0
Sequence No:	78954	Drawdown:	
Date Log Rcvd Acc:	D	Hours Pumped:	1.0
Date Log Rcvd:	06/15/1981	Static Wl:	120.0
Well Start Date:	11/29/1978	Temperature:	
Well Finish Date:	12/05/1978	Ref:	MD
Edit Status:	F	App:	
Site Type Code:	N	Source Agency:	NV003
Site Type Desc:	New	Owner No:	
Work Type Code:	N	Owner Current:	C & F CONSTRUCTION
Work Type Desc:	New	Driller Lic No:	794
Work Type Rmks:		Contractor Lic No:	4739A
Prop Use Code:	H	Contractor Drlr No:	

Wells and Additional Sources Detail Report

Prop Use Desc:	Domestic	Contractor Name:	ENLOE DRILLING CO
Drilling Mthd Code:	H	User ID:	DBRANTLEY
Drilling Mthd Desc:	Hydraulic Rotary-Mud	Parcel No:	
Test Method Code:	A	Lot No:	
Test Mthd Desc:	Air Lift	Block No:	
Aquifer Desc:		Subdivision Name:	
Depth Seal:	50	SC:	32031
Depth Drilled:	241	HA:	086
Depth Bedrock:		Twn:	N20
Depth Cased:	241	Legal Twn:	20N
Qual Const Data:	G	Rng:	E19
Qual Lith Data:	G	Legal Rng:	19E
Gravel Pack Top:	50	Sec:	13
Gravel Pack Bot:	241	Sec Quarters:	BA
Gravel Packed:	Y	Legal Quarters:	NE NW
Top Perf:	140	Quarters Seq:	
Bottom Perf:	240	Latitude:	39.605552673339844
Perf Intervals:	1	Longitude:	119.79972076416016
Casing Diameter:	6.0	Lat Long Src:	NV003
Casing Reductions:	0	Lat Long Acc:	M
Update User ID:	SCOX	Utm X:	259622.803572759
Date Entry:	02/25/2004	Utm Y:	4387515.62923424
Date Update:	03/25/2004	Remarks Add:	
Date Cmpl Acc:	D		
Owner Address:			
Contractor Addr:	705-400 HWY 395 E SUSANVILLE CA 96130		
Remarks:			

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
75	NNW	0.93	4,929.47	5,092.98	WATER WELLS

Well Log:	19982	Notice of Intent:	0
Waiver No:		Yield:	5.0
Sequence No:	75908	Drawdown:	
Date Log Rcvd Acc:	D	Hours Pumped:	
Date Log Rcvd:	06/15/1979	Static Wl:	80.0
Well Start Date:	05/31/1979	Temperature:	
Well Finish Date:	06/11/1979	Ref:	MD
Edit Status:	F	App:	
Site Type Code:	N	Source Agency:	NV003
Site Type Desc:	New	Owner No:	
Work Type Code:	N	Owner Current:	MEYER, VIRGIL
Work Type Desc:	New	Driller Lic No:	611
Work Type Rmks:		Contractor Lic No:	5092
Prop Use Code:	H	Contractor Drlr No:	
Prop Use Desc:	Domestic	Contractor Name:	BURROUGHS OF NEVADA

Wells and Additional Sources Detail Report

Drilling Mthd Code:	H	User ID:	CLHUNT
Drilling Mthd Desc:	Hydraulic Rotary-Mud	Parcel No:	88-210-04
Test Method Code:	B	Lot No:	
Test Mthd Desc:	Bucket	Block No:	
Aquifer Desc:		Subdivision Name:	
Depth Seal:	56	SC:	32031
Depth Drilled:	178	HA:	086
Depth Bedrock:		Twn:	N20
Depth Cased:	178	Legal Twn:	20N
Qual Const Data:	G	Rng:	E19
Qual Lith Data:	G	Legal Rng:	19E
Gravel Pack Top:	56	Sec:	13
Gravel Pack Bot:	180	Sec Quarters:	BA
Gravel Packed:	Y	Legal Quarters:	NE NW
Top Perf:	137	Quarters Seq:	
Bottom Perf:	178	Latitude:	39.605552673339844
Perf Intervals:	1	Longitude:	119.79972076416016
Casing Diameter:	6.625	Lat Long Src:	NV003
Casing Reductions:	0	Lat Long Acc:	M
Update User ID:		Utm X:	259622.803572759
Date Entry:	10/28/2003	Utm Y:	4387515.62923424
Date Update:		Remarks Add:	
Date Cmpl Acc:	D		
Owner Address:	W 7TH AVE SUN VALLEY		
Contractor Addr:	10310 OLD VIRGINIA CITY RD RENO NV 89511		
Remarks:			

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
76	NE	0.94	4,954.55	4,772.86	WATER WELLS

Well Log:	5488	Notice of Intent:	0
Waiver No:		Yield:	30.0
Sequence No:	82125	Drawdown:	7.0
Date Log Rcvd Acc:	D	Hours Pumped:	
Date Log Rcvd:	10/25/1960	Static Wl:	53.0
Well Start Date:	06/16/1960	Temperature:	
Well Finish Date:	06/17/1960	Ref:	MD
Edit Status:	F	App:	
Site Type Code:	N	Source Agency:	NV003
Site Type Desc:	New	Owner No:	
Work Type Code:	N	Owner Current:	CHAMBERS, TOM
Work Type Desc:	New	Driller Lic No:	287
Work Type Rmks:		Contractor Lic No:	207
Prop Use Code:	H	Contractor Drlr No:	
Prop Use Desc:	Domestic	Contractor Name:	A & B CONTRACTORS
Drilling Mthd Code:	C	User ID:	SCOX

Wells and Additional Sources Detail Report

Drilling Mthd Desc:	Cable tool	Parcel No:	
Test Method Code:	B	Lot No:	
Test Mthd Desc:	Bucket	Block No:	
Aquifer Desc:		Subdivision Name:	
Depth Seal:		SC:	32031
Depth Drilled:	114	HA:	086
Depth Bedrock:		Twn:	N20
Depth Cased:	114	Legal Twn:	20N
Qual Const Data:	G	Rng:	E20
Qual Lith Data:	G	Legal Rng:	20E
Gravel Pack Top:		Sec:	18
Gravel Pack Bot:		Sec Quarters:	AC
Gravel Packed:		Legal Quarters:	SW NE
Top Perf:	60	Quarters Seq:	
Bottom Perf:	105	Latitude:	39.60194396972656
Perf Intervals:	1	Longitude:	119.7763900756836
Casing Diameter:	6.0	Lat Long Src:	NV003
Casing Reductions:	0	Lat Long Acc:	M
Update User ID:	MDILLON	Utm X:	261614.051049757
Date Entry:	05/11/2004	Utm Y:	4387052.57238337
Date Update:	06/01/2004	Remarks Add:	
Date Cmpl Acc:	D		
Owner Address:	67 E 6TH AVE SUN VALLEY		
Contractor Addr:	SUN VALLEY		
Remarks:			

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
76	NE	0.94	4,954.55	4,772.86	WATER WELLS

Well Log:	3272	Notice of Intent:	0
Waiver No:		Yield:	
Sequence No:	82151	Drawdown:	
Date Log Rcvd Acc:	D	Hours Pumped:	
Date Log Rcvd:	12/19/1955	Static Wl:	100.0
Well Start Date:	11/03/1955	Temperature:	
Well Finish Date:	11/15/1955	Ref:	MD
Edit Status:	F	App:	
Site Type Code:	E	Source Agency:	NV003
Site Type Desc:	Existing (Deepen)	Owner No:	
Work Type Code:	N	Owner Current:	LA NYE, GRACE
Work Type Desc:	New	Driller Lic No:	3
Work Type Rmks:		Contractor Lic No:	3
Prop Use Code:	H	Contractor Drlr No:	
Prop Use Desc:	Domestic	Contractor Name:	MEL MEYER COMPANY
Drilling Mthd Code:	C	User ID:	SCOX
Drilling Mthd Desc:	Cable tool	Parcel No:	

Wells and Additional Sources Detail Report

Test Method Code:		Lot No:	
Test Mthd Desc:		Block No:	
Aquifer Desc:		Subdivision Name:	
Depth Seal:		SC:	32031
Depth Drilled:	215	HA:	086
Depth Bedrock:		Twn:	N20
Depth Cased:	215	Legal Twn:	20N
Qual Const Data:	G	Rng:	E20
Qual Lith Data:	G	Legal Rng:	20E
Gravel Pack Top:		Sec:	18
Gravel Pack Bot:		Sec Quarters:	AC
Gravel Packed:		Legal Quarters:	SW NE
Top Perf:	195	Quarters Seq:	
Bottom Perf:	215	Latitude:	39.60194396972656
Perf Intervals:	1	Longitude:	119.7763900756836
Casing Diameter:	6.0	Lat Long Src:	NV003
Casing Reductions:	0	Lat Long Acc:	M
Update User ID:	SCOX	Utm X:	261614.051049757
Date Entry:	05/12/2004	Utm Y:	4387052.57238337
Date Update:	06/02/2004	Remarks Add:	
Date Cmpl Acc:	D		
Owner Address:	7TH AVE & SUN VALLEY DR RENO		
Contractor Addr:	190 MOANA LANE RENO		
Remarks:			

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
76	NE	0.94	4,954.55	4,772.86	WATER WELLS

Well Log:	8289	Notice of Intent:	0
Waiver No:		Yield:	25.0
Sequence No:	82104	Drawdown:	10.0
Date Log Rcvd Acc:	D	Hours Pumped:	
Date Log Rcvd:	01/05/1965	Static WI:	55.0
Well Start Date:	07/24/1964	Temperature:	
Well Finish Date:	07/27/1964	Ref:	MD
Edit Status:	F	App:	
Site Type Code:	N	Source Agency:	NV003
Site Type Desc:	New	Owner No:	
Work Type Code:	N	Owner Current:	HANSON, GEORGE
Work Type Desc:	New	Driller Lic No:	6538
Work Type Rmks:		Contractor Lic No:	287
Prop Use Code:	H	Contractor Drlr No:	
Prop Use Desc:	Domestic	Contractor Name:	A & B CONSTRUCTORS
Drilling Mthd Code:	C	User ID:	SCOX
Drilling Mthd Desc:	Cable tool	Parcel No:	
Test Method Code:	B	Lot No:	

Wells and Additional Sources Detail Report

Test Mthd Desc:	Bucket	Block No:	
Aquifer Desc:		Subdivision Name:	
Depth Seal:		SC:	32031
Depth Drilled:	90	HA:	086
Depth Bedrock:		Twn:	N20
Depth Cased:	90	Legal Twn:	20N
Qual Const Data:	G	Rng:	E20
Qual Lith Data:	G	Legal Rng:	20E
Gravel Pack Top:		Sec:	18
Gravel Pack Bot:		Sec Quarters:	AC
Gravel Packed:		Legal Quarters:	SW NE
Top Perf:	60	Quarters Seq:	
Bottom Perf:	90	Latitude:	39.60194396972656
Perf Intervals:	1	Longitude:	119.7763900756836
Casing Diameter:	6.625	Lat Long Src:	NV003
Casing Reductions:	0	Lat Long Acc:	M
Update User ID:	SCOX	Utm X:	261614.051049757
Date Entry:	05/11/2004	Utm Y:	4387052.57238337
Date Update:	05/12/2004	Remarks Add:	
Date Cmpl Acc:	D		
Owner Address:	W 7TH SUN VALLEY		
Contractor Addr:	SUN VALLEY		
Remarks:			

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
76	NE	0.94	4,954.55	4,772.86	WATER WELLS

Well Log:	6220	Notice of Intent:	0
Waiver No:		Yield:	20.0
Sequence No:	82118	Drawdown:	30.0
Date Log Rcvd Acc:	D	Hours Pumped:	
Date Log Rcvd:	11/03/1961	Static Wl:	30.0
Well Start Date:	06/25/1961	Temperature:	
Well Finish Date:	06/26/1961	Ref:	MD
Edit Status:	F	App:	
Site Type Code:	E	Source Agency:	NV003
Site Type Desc:	Existing (Deepen)	Owner No:	
Work Type Code:	D	Owner Current:	LERNER, PHILLIP
Work Type Desc:	Deepen	Driller Lic No:	6538
Work Type Rmks:		Contractor Lic No:	6538
Prop Use Code:	H	Contractor Drlr No:	
Prop Use Desc:	Domestic	Contractor Name:	A & B CONTRACTORS
Drilling Mthd Code:	C	User ID:	SCOX
Drilling Mthd Desc:	Cable tool	Parcel No:	
Test Method Code:	B	Lot No:	
Test Mthd Desc:	Bucket	Block No:	

Wells and Additional Sources Detail Report

Aquifer Desc:		Subdivision Name:
Depth Seal:		SC: 32031
Depth Drilled: 150		HA: 086
Depth Bedrock:		Twn: N20
Depth Cased: 70		Legal Twn: 20N
Qual Const Data: G		Rng: E20
Qual Lith Data: G		Legal Rng: 20E
Gravel Pack Top:		Sec: 18
Gravel Pack Bot:		Sec Quarters: AC
Gravel Packed:		Legal Quarters: SW NE
Top Perf:		Quarters Seq:
Bottom Perf:		Latitude: 39.60194396972656
Perf Intervals: 1		Longitude: 119.7763900756836
Casing Diameter: 6.0		Lat Long Src: NV003
Casing Reductions: 0		Lat Long Acc: M
Update User ID: MDILLON		Utm X: 261614.051049757
Date Entry: 05/11/2004		Utm Y: 4387052.57238337
Date Update: 06/01/2004		Remarks Add:
Date Cmpl Acc: D		
Owner Address: 255 CARROL DR SUN VALLEY		
Contractor Addr: SUN VALLEY		
Remarks:		

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
77	ENE	0.94	4,960.27	4,690.60	WATER WELLS

Well Log: 4880	Notice of Intent: 0
Waiver No:	Yield: 10.0
Sequence No: 82190	Drawdown:
Date Log Rcvd Acc: D	Hours Pumped:
Date Log Rcvd: 10/12/1959	Static Wl: 30.0
Well Start Date: 09/05/1957	Temperature: 60.0
Well Finish Date: 09/07/1957	Ref: MD
Edit Status: F	App:
Site Type Code: N	Source Agency: NV003
Site Type Desc: New	Owner No:
Work Type Code: N	Owner Current: CAPURRO, THERESA
Work Type Desc: New	Driller Lic No: 4507
Work Type Rmks:	Contractor Lic No: 4507
Prop Use Code: H	Contractor Drlr No:
Prop Use Desc: Domestic	Contractor Name: J N PITCHER COMPANY
Drilling Mthd Code: C	User ID: SCOX
Drilling Mthd Desc: Cable tool	Parcel No:
Test Method Code: B	Lot No:
Test Mthd Desc: Bucket	Block No:
Aquifer Desc:	Subdivision Name:

Wells and Additional Sources Detail Report

Depth Seal:		SC:	32031
Depth Drilled:	96	HA:	086
Depth Bedrock:		Twn:	N20
Depth Cased:	95	Legal Twn:	20N
Qual Const Data:	G	Rng:	E20
Qual Lith Data:	G	Legal Rng:	20E
Gravel Pack Top:		Sec:	19
Gravel Pack Bot:		Sec Quarters:	AA
Gravel Packed:		Legal Quarters:	NE NE
Top Perf:	55	Quarters Seq:	
Bottom Perf:	95	Latitude:	39.59111022949219
Perf Intervals:	1	Longitude:	119.77166748046875
Casing Diameter:	6.0	Lat Long Src:	NV003
Casing Reductions:	0	Lat Long Acc:	M
Update User ID:		Utm X:	261982.462311484
Date Entry:	05/12/2004	Utm Y:	4385837.49271274
Date Update:		Remarks Add:	
Date Cmpl Acc:	D		
Owner Address:	724 WEST 2ND		
Contractor Addr:	190 MOANA LANE RENO NV		
Remarks:			

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
77	ENE	0.94	4,960.27	4,690.60	WATER WELLS

Well Log:	1355	Notice of Intent:	0
Waiver No:		Yield:	24.0
Sequence No:	82238	Drawdown:	
Date Log Rcvd Acc:	D	Hours Pumped:	
Date Log Rcvd:	07/03/1950	Static Wl:	16.0
Well Start Date:	06/13/1950	Temperature:	
Well Finish Date:	06/27/1950	Ref:	MD
Edit Status:	F	App:	
Site Type Code:	N	Source Agency:	NV003
Site Type Desc:	New	Owner No:	
Work Type Code:	N	Owner Current:	GEPFORD LAND CO
Work Type Desc:	New	Driller Lic No:	3
Work Type Rmks:		Contractor Lic No:	3
Prop Use Code:	X	Contractor Drlr No:	
Prop Use Desc:	Test Well	Contractor Name:	MEL MEYER
Drilling Mthd Code:	C	User ID:	SCOX
Drilling Mthd Desc:	Cable tool	Parcel No:	
Test Method Code:	B	Lot No:	
Test Mthd Desc:	Bucket	Block No:	
Aquifer Desc:		Subdivision Name:	
Depth Seal:		SC:	32031

Wells and Additional Sources Detail Report

Depth Drilled:	265	HA:	086
Depth Bedrock:		Twn:	N20
Depth Cased:		Legal Twn:	20N
Qual Const Data:	G	Rng:	E20
Qual Lith Data:	G	Legal Rng:	20E
Gravel Pack Top:		Sec:	19
Gravel Pack Bot:		Sec Quarters:	AA
Gravel Packed:		Legal Quarters:	NE NE
Top Perf:		Quarters Seq:	
Bottom Perf:		Latitude:	39.59111022949219
Perf Intervals:	1	Longitude:	119.77166748046875
Casing Diameter:	8.0	Lat Long Src:	NV003
Casing Reductions:	0	Lat Long Acc:	M
Update User ID:		Utm X:	261982.462311484
Date Entry:	05/12/2004	Utm Y:	4385837.49271274
Date Update:		Remarks Add:	
Date Cmpl Acc:	D		
Owner Address:	SUN VALLEY		
Contractor Addr:	120 MOANA LANE RENO		
Remarks:			

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
77	ENE	0.94	4,960.27	4,690.60	WATER WELLS

Well Log:	6914	Notice of Intent:	0
Waiver No:		Yield:	20.0
Sequence No:	82179	Drawdown:	5.0
Date Log Rcvd Acc:	D	Hours Pumped:	
Date Log Rcvd:	12/12/1962	Static Wl:	22.0
Well Start Date:	09/08/1962	Temperature:	
Well Finish Date:	09/10/1962	Ref:	MD
Edit Status:	F	App:	
Site Type Code:	N	Source Agency:	NV003
Site Type Desc:	New	Owner No:	
Work Type Code:	N	Owner Current:	ROONEY, HARRY
Work Type Desc:	New	Driller Lic No:	287
Work Type Rmks:		Contractor Lic No:	6538
Prop Use Code:	H	Contractor Drlr No:	
Prop Use Desc:	Domestic	Contractor Name:	A & B CONTRACTORS
Drilling Mthd Code:	C	User ID:	SCOX
Drilling Mthd Desc:	Cable tool	Parcel No:	
Test Method Code:	B	Lot No:	
Test Mthd Desc:	Bucket	Block No:	
Aquifer Desc:		Subdivision Name:	
Depth Seal:		SC:	32031
Depth Drilled:	88	HA:	086

Wells and Additional Sources Detail Report

Depth Bedrock:		TwN:	N20
Depth Cased:	88	Legal TwN:	20N
Qual Const Data:	G	Rng:	E20
Qual Lith Data:	G	Legal Rng:	20E
Gravel Pack Top:		Sec:	19
Gravel Pack Bot:		Sec Quarters:	AA
Gravel Packed:		Legal Quarters:	NE NE
Top Perf:	58	Quarters Seq:	
Bottom Perf:	88	Latitude:	39.59111022949219
Perf Intervals:	1	Longitude:	119.77166748046875
Casing Diameter:	6.625	Lat Long Src:	NV003
Casing Reductions:	0	Lat Long Acc:	M
Update User ID:	SCOX	Utm X:	261982.462311484
Date Entry:	05/12/2004	Utm Y:	4385837.49271274
Date Update:	06/02/2004	Remarks Add:	
Date Cmpl Acc:	D		
Owner Address:	SUN VALLEY		
Contractor Addr:	SUN VALLEY		
Remarks:			

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
77	ENE	0.94	4,960.27	4,690.60	WATER WELLS

Well Log:	1382	Notice of Intent:	0
Waiver No:		Yield:	20.0
Sequence No:	82237	Drawdown:	
Date Log Rcvd Acc:	D	Hours Pumped:	
Date Log Rcvd:	07/24/1950	Static WI:	30.0
Well Start Date:	06/27/1950	Temperature:	
Well Finish Date:	06/28/1950	Ref:	MD
Edit Status:	F	App:	
Site Type Code:	N	Source Agency:	NV003
Site Type Desc:	New	Owner No:	
Work Type Code:	N	Owner Current:	ATWELL, L C
Work Type Desc:	New	Driller Lic No:	3
Work Type Rmks:		Contractor Lic No:	3
Prop Use Code:	H	Contractor Drlr No:	
Prop Use Desc:	Domestic	Contractor Name:	MEL MEYER
Drilling Mthd Code:	C	User ID:	SCOX
Drilling Mthd Desc:	Cable tool	Parcel No:	
Test Method Code:	A	Lot No:	
Test Mthd Desc:	Air Lift	Block No:	
Aquifer Desc:		Subdivision Name:	
Depth Seal:		SC:	32031
Depth Drilled:	103	HA:	086
Depth Bedrock:		TwN:	N20

Wells and Additional Sources Detail Report

Depth Cased:	65	Legal Twn:	20N
Qual Const Data:	G	Rng:	E20
Qual Lith Data:	G	Legal Rng:	20E
Gravel Pack Top:		Sec:	19
Gravel Pack Bot:		Sec Quarters:	AA
Gravel Packed:		Legal Quarters:	NE NE
Top Perf:	45	Quarters Seq:	
Bottom Perf:	62	Latitude:	39.59111022949219
Perf Intervals:	1	Longitude:	119.77166748046875
Casing Diameter:	6.0	Lat Long Src:	NV003
Casing Reductions:	0	Lat Long Acc:	M
Update User ID:	SCOX	Utm X:	261982.462311484
Date Entry:	05/12/2004	Utm Y:	4385837.49271274
Date Update:	06/02/2004	Remarks Add:	
Date Cmpl Acc:	D		
Owner Address:	SUN VALLEY		
Contractor Addr:	RENO		
Remarks:			

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
78	E	0.94	4,965.05	4,681.45	WATER WELLS

Well Log:	5644	Notice of Intent:	0
Waiver No:		Yield:	20.0
Sequence No:	82187	Drawdown:	
Date Log Rcvd Acc:	D	Hours Pumped:	
Date Log Rcvd:	01/20/1961	Static Wl:	34.0
Well Start Date:	12/16/1960	Temperature:	
Well Finish Date:	12/19/1960	Ref:	MD
Edit Status:	F	App:	20203
Site Type Code:	N	Source Agency:	NV003
Site Type Desc:	New	Owner No:	
Work Type Code:	N	Owner Current:	SUMMERS, R T
Work Type Desc:	New	Driller Lic No:	334
Work Type Rmks:		Contractor Lic No:	334
Prop Use Code:	H	Contractor Drlr No:	
Prop Use Desc:	Domestic	Contractor Name:	THOLKE & PETERSON
Drilling Mthd Code:	C	User ID:	SCOX
Drilling Mthd Desc:	Cable tool	Parcel No:	
Test Method Code:	B	Lot No:	
Test Mthd Desc:	Bucket	Block No:	
Aquifer Desc:		Subdivision Name:	
Depth Seal:		SC:	32031
Depth Drilled:	146	HA:	086
Depth Bedrock:		Twn:	N20
Depth Cased:	145	Legal Twn:	20N

Wells and Additional Sources Detail Report

Qual Const Data:	G	Rng:	E20
Qual Lith Data:	G	Legal Rng:	20E
Gravel Pack Top:		Sec:	19
Gravel Pack Bot:		Sec Quarters:	AD
Gravel Packed:	Y	Legal Quarters:	SE NE
Top Perf:	60	Quarters Seq:	
Bottom Perf:	145	Latitude:	39.58749771118164
Perf Intervals:	1	Longitude:	119.77166748046875
Casing Diameter:	6.625	Lat Long Src:	NV003
Casing Reductions:	0	Lat Long Acc:	M
Update User ID:	MDILLON	Utm X:	261970.095059165
Date Entry:	05/12/2004	Utm Y:	4385436.64163616
Date Update:	06/01/2004	Remarks Add:	
Date Cmpl Acc:	D		
Owner Address:	305 EAST AVE SUN VALLEY		
Contractor Addr:	PO BOX 663 SPARKS		
Remarks:			

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
78	E	0.94	4,965.05	4,681.45	WATER WELLS

Well Log:	4242	Notice of Intent:	0
Waiver No:		Yield:	25.0
Sequence No:	82202	Drawdown:	20.0
Date Log Rcvd Acc:	D	Hours Pumped:	
Date Log Rcvd:	09/15/1958	Static Wl:	30.0
Well Start Date:	08/22/1958	Temperature:	
Well Finish Date:	08/24/1958	Ref:	MD
Edit Status:	F	App:	
Site Type Code:	E	Source Agency:	NV003
Site Type Desc:	Existing (Deepen)	Owner No:	
Work Type Code:	D	Owner Current:	CORNBREAD, EDITH
Work Type Desc:	Deepen	Driller Lic No:	287
Work Type Rmks:		Contractor Lic No:	287
Prop Use Code:	H	Contractor Drlr No:	
Prop Use Desc:	Domestic	Contractor Name:	M ARTLIP
Drilling Mthd Code:	C	User ID:	SCOX
Drilling Mthd Desc:	Cable tool	Parcel No:	
Test Method Code:	U	Lot No:	
Test Mthd Desc:	Unknown	Block No:	
Aquifer Desc:		Subdivision Name:	
Depth Seal:		SC:	32031
Depth Drilled:	67	HA:	086
Depth Bedrock:		Twn:	N20
Depth Cased:	60	Legal Twn:	20N
Qual Const Data:	G	Rng:	E20

Wells and Additional Sources Detail Report

Qual Lith Data:	G	Legal Rng:	20E
Gravel Pack Top:		Sec:	19
Gravel Pack Bot:		Sec Quarters:	AD
Gravel Packed:		Legal Quarters:	SE NE
Top Perf:	40	Quarters Seq:	
Bottom Perf:	60	Latitude:	39.58749771118164
Perf Intervals:	1	Longitude:	119.77166748046875
Casing Diameter:	6.0	Lat Long Src:	NV003
Casing Reductions:	0	Lat Long Acc:	M
Update User ID:	SCOX	Utm X:	261970.095059165
Date Entry:	05/12/2004	Utm Y:	4385436.64163616
Date Update:	06/02/2004	Remarks Add:	
Date Cmpl Acc:	D		
Owner Address:	SHORT AVE SUN VALLEY		
Contractor Addr:	SUN VALLEY		
Remarks:			

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
78	E	0.94	4,965.05	4,681.40	WATER WELLS

Well Log:	97927	Notice of Intent:	56469
Waiver No:		Yield:	
Sequence No:	97189	Drawdown:	
Date Log Rcvd Acc:	D	Hours Pumped:	
Date Log Rcvd:	10/24/2005	Static Wl:	13.0
Well Start Date:	09/29/2005	Temperature:	
Well Finish Date:	09/29/2005	Ref:	MD
Edit Status:	F	App:	
Site Type Code:	E	Source Agency:	NV003
Site Type Desc:	Existing (Deepen)	Owner No:	
Work Type Code:	P	Owner Current:	BERG, ED
Work Type Desc:	Plug or Abandonment	Driller Lic No:	2063
Work Type Rmks:		Contractor Lic No:	14170
Prop Use Code:	U	Contractor Drlr No:	
Prop Use Desc:	Unused	Contractor Name:	MCKAY DRILLING INC
Drilling Mthd Code:	U	User ID:	APALMER
Drilling Mthd Desc:	Unknown	Parcel No:	085-151-37
Test Method Code:	A	Lot No:	
Test Mthd Desc:	Air Lift	Block No:	
Aquifer Desc:		Subdivision Name:	
Depth Seal:	182	SC:	32031
Depth Drilled:	182	HA:	086
Depth Bedrock:		Twn:	N20
Depth Cased:	182	Legal Twn:	20N
Qual Const Data:	G	Rng:	E20
Qual Lith Data:	G	Legal Rng:	20E

Wells and Additional Sources Detail Report

Gravel Pack Top:	Sec:	19
Gravel Pack Bot:	Sec Quarters:	AD
Gravel Packed:	Legal Quarters:	SE NE
Top Perf: 1	Quarters Seq:	
Bottom Perf: 182	Latitude:	39.5875
Perf Intervals: 1	Longitude:	119.771666666667
Casing Diameter: 6.625	Lat Long Src:	
Casing Reductions: 1	Lat Long Acc:	M
Update User ID: APALMER	Utm X:	261970.095059165
Date Entry: 12/29/2005	Utm Y:	4385436.64163616
Date Update: 01/04/2006	Remarks Add:	
Date Cmpl Acc: D		
Owner Address: 403 EAST GEPFORD PKWY SUN VALLEY, NV 89433		
Contractor Addr: 2290 PIONEER DR RENO NV 89509		
Remarks:		

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
79	ESE	0.94	4,967.30	4,706.80	WATER WELLS

Well Log: 6213	Notice of Intent: 0
Waiver No:	Yield: 15.0
Sequence No: 82183	Drawdown: 20.0
Date Log Rcvd Acc: D	Hours Pumped:
Date Log Rcvd: 11/03/1961	Static Wl: 20.0
Well Start Date: 06/01/1961	Temperature:
Well Finish Date: 06/03/1961	Ref: MD
Edit Status: F	App:
Site Type Code: E	Source Agency: NV003
Site Type Desc: Existing (Deepen)	Owner No:
Work Type Code: D	Owner Current: SWANSON, HARRY SR
Work Type Desc: Deepen	Driller Lic No: 343
Work Type Rmks:	Contractor Lic No: 6538
Prop Use Code: H	Contractor Drlr No:
Prop Use Desc: Domestic	Contractor Name: A & B CONTRACTORS
Drilling Mthd Code: C	User ID: SCOX
Drilling Mthd Desc: Cable tool	Parcel No:
Test Method Code: B	Lot No:
Test Mthd Desc: Bucket	Block No:
Aquifer Desc:	Subdivision Name:
Depth Seal:	SC: 32031
Depth Drilled: 83	HA: 086
Depth Bedrock:	Twn: N20
Depth Cased: 80	Legal Twn: 20N
Qual Const Data: G	Rng: E20
Qual Lith Data: G	Legal Rng: 20E
Gravel Pack Top:	Sec: 19

Wells and Additional Sources Detail Report

Gravel Pack Bot:		Sec Quarters:	DA
Gravel Packed:		Legal Quarters:	NE SE
Top Perf:	60	Quarters Seq:	
Bottom Perf:	70	Latitude:	39.58388900756836
Perf Intervals:	1	Longitude:	119.77166748046875
Casing Diameter:	6.625	Lat Long Src:	NV003
Casing Reductions:	0	Lat Long Acc:	M
Update User ID:	MDILLON	Utm X:	261957.728755409
Date Entry:	05/12/2004	Utm Y:	4385035.79075387
Date Update:	06/01/2004	Remarks Add:	
Date Cmpl Acc:	D		
Owner Address:	RENO		
Contractor Addr:	SUN VALLEY		
Remarks:			

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
79	ESE	0.94	4,967.30	4,706.80	WATER WELLS

Well Log:	807	Notice of Intent:	0
Waiver No:		Yield:	
Sequence No:	82246	Drawdown:	
Date Log Rcvd Acc:	D	Hours Pumped:	
Date Log Rcvd:	02/10/1949	Static WI:	22.0
Well Start Date:	04/15/1948	Temperature:	
Well Finish Date:		Ref:	MD
Edit Status:	F	App:	
Site Type Code:	N	Source Agency:	NV003
Site Type Desc:	New	Owner No:	
Work Type Code:	N	Owner Current:	WITTWAY, AUGUST
Work Type Desc:	New	Driller Lic No:	
Work Type Rmks:		Contractor Lic No:	
Prop Use Code:	H	Contractor Drlr No:	
Prop Use Desc:	Domestic	Contractor Name:	
Drilling Mthd Code:	D	User ID:	SCOX
Drilling Mthd Desc:	Dug	Parcel No:	
Test Method Code:		Lot No:	
Test Mthd Desc:		Block No:	
Aquifer Desc:		Subdivision Name:	
Depth Seal:		SC:	32031
Depth Drilled:	52	HA:	086
Depth Bedrock:		Twn:	N20
Depth Cased:	52	Legal Twn:	20N
Qual Const Data:	G	Rng:	E20
Qual Lith Data:	G	Legal Rng:	20E
Gravel Pack Top:		Sec:	19
Gravel Pack Bot:		Sec Quarters:	DA

Wells and Additional Sources Detail Report

Gravel Packed:	Legal Quarters:	NE SE
Top Perf:	Quarters Seq:	
Bottom Perf:	Latitude:	39.58388900756836
Perf Intervals: 1	Longitude:	119.77166748046875
Casing Diameter: 8.0	Lat Long Src:	NV003
Casing Reductions: 0	Lat Long Acc:	M
Update User ID:	Utm X:	261957.728755409
Date Entry: 05/12/2004	Utm Y:	4385035.79075387
Date Update:	Remarks Add:	
Date Cmpl Acc:		
Owner Address:		
Contractor Addr:		
Remarks:		

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
79	ESE	0.94	4,967.30	4,706.80	WATER WELLS

Well Log: 4281	Notice of Intent: 0
Waiver No:	Yield: 15.0
Sequence No: 82199	Drawdown:
Date Log Rcvd Acc: D	Hours Pumped:
Date Log Rcvd: 10/20/1958	Static Wl: 19.0
Well Start Date: 10/07/1958	Temperature:
Well Finish Date: 10/08/1958	Ref: MD
Edit Status: F	App:
Site Type Code: N	Source Agency: NV003
Site Type Desc: New	Owner No:
Work Type Code: N	Owner Current: GEPFORD, H L
Work Type Desc: New	Driller Lic No: 287
Work Type Rmks:	Contractor Lic No: 208
Prop Use Code: H	Contractor Drlr No:
Prop Use Desc: Domestic	Contractor Name: LEE SMITH
Drilling Mthd Code: C	User ID: SCOX
Drilling Mthd Desc: Cable tool	Parcel No:
Test Method Code: B	Lot No:
Test Mthd Desc: Bucket	Block No:
Aquifer Desc:	Subdivision Name:
Depth Seal:	SC: 32031
Depth Drilled: 102	HA: 086
Depth Bedrock:	Twn: N20
Depth Cased: 102	Legal Twn: 20N
Qual Const Data: G	Rng: E20
Qual Lith Data: G	Legal Rng: 20E
Gravel Pack Top:	Sec: 19
Gravel Pack Bot:	Sec Quarters: DA
Gravel Packed:	Legal Quarters: NE SE

Wells and Additional Sources Detail Report

Top Perf:	26	Quarters Seq:	
Bottom Perf:	100	Latitude:	39.58388900756836
Perf Intervals:	2	Longitude:	119.77166748046875
Casing Diameter:	6.625	Lat Long Src:	NV003
Casing Reductions:	0	Lat Long Acc:	M
Update User ID:		Utm X:	261957.728755409
Date Entry:	05/12/2004	Utm Y:	4385035.79075387
Date Update:		Remarks Add:	
Date Cmpl Acc:	D		
Owner Address:	3RD AND LEON DRIVE SUN VALLEY		
Contractor Addr:	SUN VALLEY		
Remarks:			

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
79	ESE	0.94	4,967.30	4,706.80	WATER WELLS

Well Log:	6205	Notice of Intent:	0
Waiver No:		Yield:	15.0
Sequence No:	82184	Drawdown:	30.0
Date Log Rcvd Acc:	D	Hours Pumped:	
Date Log Rcvd:	11/03/1961	Static Wl:	17.0
Well Start Date:	09/02/1961	Temperature:	
Well Finish Date:	09/07/1961	Ref:	MD
Edit Status:	F	App:	
Site Type Code:	N	Source Agency:	NV003
Site Type Desc:	New	Owner No:	
Work Type Code:	N	Owner Current:	TURNER, FRANK
Work Type Desc:	New	Driller Lic No:	343
Work Type Rmks:		Contractor Lic No:	6538
Prop Use Code:	H	Contractor Drlr No:	
Prop Use Desc:	Domestic	Contractor Name:	A & B CONTRACTORS
Drilling Mthd Code:	C	User ID:	SCOX
Drilling Mthd Desc:	Cable tool	Parcel No:	
Test Method Code:	P	Lot No:	
Test Mthd Desc:	Piston Pump	Block No:	
Aquifer Desc:		Subdivision Name:	
Depth Seal:		SC:	32031
Depth Drilled:	140	HA:	086
Depth Bedrock:		Twn:	N20
Depth Cased:	112	Legal Twn:	20N
Qual Const Data:	G	Rng:	E20
Qual Lith Data:	G	Legal Rng:	20E
Gravel Pack Top:		Sec:	19
Gravel Pack Bot:		Sec Quarters:	DA
Gravel Packed:		Legal Quarters:	NE SE
Top Perf:	60	Quarters Seq:	

Wells and Additional Sources Detail Report

Bottom Perf:	107	Latitude:	39.58388900756836
Perf Intervals:	1	Longitude:	119.77166748046875
Casing Diameter:	6.0	Lat Long Src:	NV003
Casing Reductions:	0	Lat Long Acc:	M
Update User ID:	MDILLON	Utm X:	261957.728755409
Date Entry:	05/12/2004	Utm Y:	4385035.79075387
Date Update:	06/01/2004	Remarks Add:	
Date Cmpl Acc:	D		
Owner Address:	83 E 2ND ST SUN VALLEY		
Contractor Addr:	SUN VALLEY		
Remarks:	WELL TEST DATA=15GPM@80FTDD PUMPED		

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
80	ESE	0.95	4,992.24	4,738.26	WATER WELLS

Well Log:	4130	Notice of Intent:	0
Waiver No:		Yield:	2.0
Sequence No:	82205	Drawdown:	
Date Log Rcvd Acc:	D	Hours Pumped:	
Date Log Rcvd:	06/27/1958	Static Wl:	50.0
Well Start Date:		Temperature:	
Well Finish Date:	04/18/1958	Ref:	MD
Edit Status:	F	App:	
Site Type Code:	N	Source Agency:	NV003
Site Type Desc:	New	Owner No:	
Work Type Code:	N	Owner Current:	SEGUIRA, MANUEL
Work Type Desc:	New	Driller Lic No:	287
Work Type Rmks:		Contractor Lic No:	287
Prop Use Code:	H	Contractor Drlr No:	
Prop Use Desc:	Domestic	Contractor Name:	M ARTLIP
Drilling Mthd Code:	C	User ID:	SCOX
Drilling Mthd Desc:	Cable tool	Parcel No:	
Test Method Code:	U	Lot No:	
Test Mthd Desc:	Unknown	Block No:	
Aquifer Desc:		Subdivision Name:	
Depth Seal:		SC:	32031
Depth Drilled:	110	HA:	086
Depth Bedrock:		Twn:	N20
Depth Cased:	100	Legal Twn:	20N
Qual Const Data:	G	Rng:	E20
Qual Lith Data:	G	Legal Rng:	20E
Gravel Pack Top:		Sec:	19
Gravel Pack Bot:		Sec Quarters:	DD
Gravel Packed:		Legal Quarters:	SE SE
Top Perf:	60	Quarters Seq:	
Bottom Perf:	100	Latitude:	39.58027648925781

Wells and Additional Sources Detail Report

Perf Intervals:	1	Longitude:	119.77166748046875
Casing Diameter:	6.0	Lat Long Src:	NV003
Casing Reductions:	0	Lat Long Acc:	M
Update User ID:		Utm X:	261945.363400263
Date Entry:	05/12/2004	Utm Y:	4384634.94006588
Date Update:		Remarks Add:	
Date Cmpl Acc:	D		
Owner Address:	4TH SIDEHILL DR SUN VALLEY		
Contractor Addr:	SUN VALLEY		
Remarks:			

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
81	ENE	0.95	5,037.70	4,690.57	WATER WELLS

Well Log:	47418	Notice of Intent:	28505
Waiver No:		Yield:	
Sequence No:	23167	Drawdown:	
Date Log Rcvd Acc:	D	Hours Pumped:	
Date Log Rcvd:	02/08/1995	Static Wl:	12.0
Well Start Date:	01/19/1995	Temperature:	
Well Finish Date:	01/19/1995	Ref:	MD
Edit Status:	F	App:	
Site Type Code:	E	Source Agency:	NV003
Site Type Desc:	Existing (Deepen)	Owner No:	
Work Type Code:	P	Owner Current:	REVORD, ED
Work Type Desc:	Plug or Abandonment	Driller Lic No:	1511
Work Type Rmks:		Contractor Lic No:	15291
Prop Use Code:	U	Contractor Drlr No:	
Prop Use Desc:	Unused	Contractor Name:	AQUA DRILLING & WELL SERVICE
Drilling Mthd Code:	U	User ID:	KLOHAIR
Drilling Mthd Desc:	Unknown	Parcel No:	085-151-06
Test Method Code:		Lot No:	
Test Mthd Desc:		Block No:	
Aquifer Desc:		Subdivision Name:	
Depth Seal:		SC:	32031
Depth Drilled:	90	HA:	086
Depth Bedrock:		Twn:	N20
Depth Cased:	90	Legal Twn:	20N
Qual Const Data:	G	Rng:	E20
Qual Lith Data:	G	Legal Rng:	20E
Gravel Pack Top:	0	Sec:	19
Gravel Pack Bot:	0	Sec Quarters:	AA
Gravel Packed:		Legal Quarters:	NE NE
Top Perf:		Quarters Seq:	
Bottom Perf:		Latitude:	39.59111022949219
Perf Intervals:		Longitude:	119.77139282226562

Wells and Additional Sources Detail Report

Casing Diameter:	5.87	Lat Long Src:	NV003
Casing Reductions:	0	Lat Long Acc:	T
Update User ID:		Utm X:	262006.32007016483
Date Entry:	05/25/1995	Utm Y:	4385836.75665047
Date Update:		Remarks Add:	
Date Cmpl Acc:	D		
Owner Address:	5364 WOODS DR SUN VALLEY NV		
Contractor Addr:	625 SPICE ISLANDS DR STE L SPARKS NV		
Remarks:			

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
82	NNW	0.96	5,063.47	5,066.03	WATER WELLS

Well Log:	125040	Notice of Intent:	73215
Waiver No:		Yield:	15.0
Sequence No:	125155	Drawdown:	
Date Log Rcvd Acc:	D	Hours Pumped:	1.0
Date Log Rcvd:	06/20/2016	Static WI:	100.0
Well Start Date:	06/14/2016	Temperature:	70.0
Well Finish Date:	06/15/2016	Ref:	MD
Edit Status:	F	App:	
Site Type Code:	N	Source Agency:	NV003
Site Type Desc:	New	Owner No:	
Work Type Code:	N	Owner Current:	JAVIER BARAJAS
Work Type Desc:	New	Driller Lic No:	2362
Work Type Rmks:		Contractor Lic No:	35387C
Prop Use Code:	H	Contractor Drlr No:	
Prop Use Desc:	Domestic	Contractor Name:	A S A P PUMP & WELL SERVICE LLC
Drilling Mthd Code:	A	User ID:	RRANSDCELL
Drilling Mthd Desc:	Air Rotary	Parcel No:	088-210-29
Test Method Code:	A	Lot No:	
Test Mthd Desc:	Air Lift	Block No:	
Aquifer Desc:		Subdivision Name:	
Depth Seal:	54	SC:	32031
Depth Drilled:	194	HA:	086
Depth Bedrock:		Twn:	N20
Depth Cased:	194	Legal Twn:	20N
Qual Const Data:	G	Rng:	E19
Qual Lith Data:	G	Legal Rng:	19E
Gravel Pack Top:	54	Sec:	13
Gravel Pack Bot:	194	Sec Quarters:	BA
Gravel Packed:	Y	Legal Quarters:	NE NW
Top Perf:	174	Quarters Seq:	
Bottom Perf:	194	Latitude:	39.60615
Perf Intervals:	1	Longitude:	119.798805
Casing Diameter:	6.625	Lat Long Src:	

Wells and Additional Sources Detail Report

Casing Reductions:	0	Lat Long Acc:	
Update User ID:		Utm X:	259703.622371331
Date Entry:	07/07/2016	Utm Y:	4387579.16083448
Date Update:		Remarks Add:	
Date Cmpl Acc:	D		
Owner Address:	656 QUARTZ LANE SUN VALLEY		
Contractor Addr:	10230 LAURENT DR RENO NV 89506		
Remarks:			

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
83	ENE	0.96	5,090.33	4,707.03	WATER WELLS

Well Log:	35078	Notice of Intent:	9558
Waiver No:		Yield:	
Sequence No:	10808	Drawdown:	
Date Log Rcvd Acc:	D	Hours Pumped:	
Date Log Rcvd:	01/08/1991	Static Wl:	
Well Start Date:		Temperature:	
Well Finish Date:	12/13/1990	Ref:	MD
Edit Status:	F	App:	
Site Type Code:	E	Source Agency:	NV003
Site Type Desc:	Existing (Deepen)	Owner No:	
Work Type Code:	P	Owner Current:	PAULLO, JIM
Work Type Desc:	Plug or Abandonment	Driller Lic No:	923
Work Type Rmks:		Contractor Lic No:	22549
Prop Use Code:	H	Contractor Drlr No:	908
Prop Use Desc:	Domestic	Contractor Name:	WAYNE DRILLING INC
Drilling Mthd Code:	A	User ID:	AVTYPER
Drilling Mthd Desc:	Air Rotary	Parcel No:	85-251-01
Test Method Code:		Lot No:	
Test Mthd Desc:		Block No:	
Aquifer Desc:		Subdivision Name:	SUN VALLEY
Depth Seal:		SC:	32031
Depth Drilled:	108	HA:	086
Depth Bedrock:		Twn:	N20
Depth Cased:		Legal Twn:	20N
Qual Const Data:	G	Rng:	E20
Qual Lith Data:	G	Legal Rng:	20E
Gravel Pack Top:	0	Sec:	18
Gravel Pack Bot:	0	Sec Quarters:	DD
Gravel Packed:	N	Legal Quarters:	SE SE
Top Perf:		Quarters Seq:	
Bottom Perf:		Latitude:	39.594722747802734
Perf Intervals:	0	Longitude:	119.77139282226562
Casing Diameter:	6.62	Lat Long Src:	NV003
Casing Reductions:	0	Lat Long Acc:	T

Wells and Additional Sources Detail Report

Update User ID:	Utm X:	262018.68702895296
Date Entry:	Utm Y:	4386237.607903586
Date Update:	Remarks Add:	
Date Cmpl Acc: D		
Owner Address: 5585 LEON SUN VALLEY NV		
Contractor Addr: P O BOX 12370 RENO NV		
Remarks:		

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
84	NNE	0.99	5,222.05	4,872.56	WATER WELLS

Well Log: 5505	Notice of Intent: 0
Waiver No:	Yield: 8.0
Sequence No: 82123	Drawdown: 90.0
Date Log Rcvd Acc: D	Hours Pumped:
Date Log Rcvd: 10/25/1960	Static Wl: 42.0
Well Start Date: 07/08/1960	Temperature:
Well Finish Date: 07/08/1960	Ref: MD
Edit Status: F	App:
Site Type Code: N	Source Agency: NV003
Site Type Desc: New	Owner No:
Work Type Code: N	Owner Current: ANDERSON, EMERY
Work Type Desc: New	Driller Lic No: 287
Work Type Rmks:	Contractor Lic No: 207
Prop Use Code: H	Contractor Drlr No:
Prop Use Desc: Domestic	Contractor Name: A & B CONTRACTORS
Drilling Mthd Code: C	User ID: SCOX
Drilling Mthd Desc: Cable tool	Parcel No:
Test Method Code: U	Lot No:
Test Mthd Desc: Unknown	Block No:
Aquifer Desc:	Subdivision Name:
Depth Seal:	SC: 32031
Depth Drilled: 102	HA: 086
Depth Bedrock:	Twn: N20
Depth Cased: 102	Legal Twn: 20N
Qual Const Data: G	Rng: E20
Qual Lith Data: G	Legal Rng: 20E
Gravel Pack Top:	Sec: 18
Gravel Pack Bot:	Sec Quarters: BA
Gravel Packed:	Legal Quarters: NE NW
Top Perf: 42	Quarters Seq:
Bottom Perf: 100	Latitude: 39.605552673339844
Perf Intervals: 2	Longitude: 119.78111267089844
Casing Diameter: 6.0	Lat Long Src: NV003
Casing Reductions: 0	Lat Long Acc: M
Update User ID: SCOX	Utm X: 261220.945320289

Wells and Additional Sources Detail Report

Date Entry:	05/11/2004	Utm Y:	4387465.97148116
Date Update:	05/12/2004	Remarks Add:	
Date Cmpl Acc:	D		
Owner Address:	SUN VALLEY		
Contractor Addr:	SUN VALLEY		
Remarks:			

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
84	NNE	0.99	5,222.05	4,872.56	WATER WELLS

Well Log:	78726	Notice of Intent:	43175
Waiver No:		Yield:	
Sequence No:	57449	Drawdown:	
Date Log Rcvd Acc:	D	Hours Pumped:	
Date Log Rcvd:	12/20/1999	Static Wl:	
Well Start Date:	12/07/1999	Temperature:	
Well Finish Date:	12/15/1999	Ref:	MD
Edit Status:	F	App:	
Site Type Code:	E	Source Agency:	NV003
Site Type Desc:	Existing (Deepen)	Owner No:	
Work Type Code:	P	Owner Current:	NORTHERN SIERRA CONSTRUCTION
Work Type Desc:	Plug or Abandonment	Driller Lic No:	1132
Work Type Rmks:		Contractor Lic No:	15291
Prop Use Code:	H	Contractor Drlr No:	
Prop Use Desc:	Domestic	Contractor Name:	AQUA DRILLING & WELL SERVICE INC
Drilling Mthd Code:	C	User ID:	DBRANTLEY
Drilling Mthd Desc:	Cable tool	Parcel No:	085-340-01
Test Method Code:		Lot No:	
Test Mthd Desc:		Block No:	
Aquifer Desc:		Subdivision Name:	
Depth Seal:		SC:	32031
Depth Drilled:		HA:	086
Depth Bedrock:		Twn:	N20
Depth Cased:		Legal Twn:	20N
Qual Const Data:	G	Rng:	E20
Qual Lith Data:	G	Legal Rng:	20E
Gravel Pack Top:		Sec:	18
Gravel Pack Bot:		Sec Quarters:	BA
Gravel Packed:		Legal Quarters:	NE NW
Top Perf:		Quarters Seq:	
Bottom Perf:		Latitude:	39.605552673339844
Perf Intervals:		Longitude:	119.78111267089844
Casing Diameter:	6.62	Lat Long Src:	NV003
Casing Reductions:	0	Lat Long Acc:	M
Update User ID:		Utm X:	261220.94532028007
Date Entry:	02/29/2000	Utm Y:	4387465.971481153

Wells and Additional Sources Detail Report

Date Update:

Remarks Add:

Date Cmpl Acc:

D

Owner Address:

110 QUARTZ LN

Contractor Addr:

675 EDISON WY RENO NV 89502

Remarks:

Radon Information

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

Federal EPA Radon Zone for *WASHOE* County: **2**

Zone 1: Counties with predicted average indoor radon screening levels greater than 4 pCi/L

Zone 2: Counties with predicted average indoor radon screening levels from 2 to 4 pCi/L

Zone 3: Counties with predicted average indoor radon screening levels less than 2 pCi/L

Federal Area Radon Information for *SPARKS* City

No Measures/Homes:	82
Arithmetic Mean:	1.4
Maximum:	9
Minimum:	0
% >4 pCi/L:	6.1
Notes on Data Table:	TABLE 2. Screening indoor radon data for cities in Nevada with 10 or more usable indoor radon measurements. Data represent charcoal-canister tests made between 1989 and 1991.

Federal Area Radon Information for *RENO* City

No Measures/Homes:	311
Arithmetic Mean:	3.3
Maximum:	40.6
Minimum:	0
% >4 pCi/L:	21.2
Notes on Data Table:	TABLE 2. Screening indoor radon data for cities in Nevada with 10 or more usable indoor radon measurements. Data represent charcoal-canister tests made between 1989 and 1991.

Federal Sources

FEMA National Flood Hazard Layer

FEMA FLOOD

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

Indoor Radon Data

INDOOR RADON

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

Public Water Systems Violations and Enforcement Data

PWSV

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

Radon Zone Level

RADON ZONE

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

Safe Drinking Water Information System (SDWIS)

SDWIS

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

Soil Survey Geographic database

SSURGO

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

U.S. Fish & Wildlife Service Wetland Data

US WETLAND

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

USGS Current Topo

US TOPO

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

USGS Geology

US GEOLOGY

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

USGS National Water Information System

FED USGS

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

State Sources

Oil and Gas Wells

OGW

Oil and Gas Wells Data maintained by Nevada Bureau of Mines and Geology.

Well Log Database

The Division of Water Resources maintains a well log database that reports on water wells drilled in the State of Nevada. The location information may pertain to the physical location, contact or mailing address.

WATER WELLS

Liability Notice

Reliance on information in Report: The Physical Setting Report (PSR) DOES NOT replace a full Phase I Environmental Site Assessment but is solely intended to be used as a review of environmental databases and physical characteristics for the site or adjacent properties.

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Airports

Nav aids

Airspace Fixes

Aviation Fuel






iPhone App

My AirNav

Airport Search Results

3 airports found

ID	CITY	AIRPORT NAME	WHERE
 RNO	RENO, NV	RENO/TAHOE INTERNATIONAL AIRPORT	5.4 nm S
 N86	RENO, NV	SPANISH SPRINGS AIRPORT	5.9 nm NNE
 RTS	RENO, NV	RENO/STEAD AIRPORT	6.3 nm NW

> 1 ASSOC CITY: RENO 4 STATE: NV LOC ID: N86 FAA SITE NR: 13123.01*A
 > 2 AIRPORT NAME: SPANISH SPRINGS 5 COUNTY: WASHOE NV
 3 CBD TO AIRPORT (NM): 10 N 6 REGION/ADO: AWP/PHX 7 SECT AERO CHT: SAN FRANCISCO

<p>GENERAL</p> <p>10 OWNERSHIP: PUBLIC > 11 OWNER: SPANISH SPRINGS PILOTS ASSOCIATION > 12 ADDRESS: 9732 STATE ROUTE 445 #410 SPANISH SPRINGS, NV 89441 > 13 PHONE NR: (775) 772-8049 > 14 MANAGER: MAX BARTMESS > 15 ADDRESS: 9732 STATE ROUTE 445 #410 SPANISH SPRINGS, NV 89441 > 16 PHONE NR: 775-772-8049 > 17 ATTENDANCE SCHEDULE: UNATNDD</p>	<p>SERVICES</p> <p>> 70 FUEL: > 71 AIRFRAME RPRS: NONE > 72 PWR PLANT RPRS: NONE > 73 BOTTLE OXYGEN: > 74 BULK OXYGEN: 75 TSNT STORAGE: TIE 76 OTHER SERVICES:</p>	<p>BASED AIRCRAFT</p> <p>90 SINGLE ENG: 4 91 MULTI ENG: 0 92 JET: 0 93 HELICOPTERS: 0 TOTAL: 4 94 GLIDERS: 0 95 MILITARY: 0 96 ULTRA-LIGHT: 0</p>
--	--	---

<p>18 AIRPORT USE: PUBLIC 19 ARPT LAT: 39-40-16.2500N ESTIMATED 20 ARPT LONG: 119-43-30.6000W 21 ARPT ELEV: 4620.0 ESTIMATED 22 ACREAGE: 35 > 23 RIGHT TRAFFIC: 35 > 24 NON-COMM LANDING: NO 25 NPIAS/FED AGREEMENTS: > 26 FAR 139 INDEX:</p>	<p>FACILITIES</p> <p>> 80 ARPT BCN: > 81 ARPT LGT SKED : BCN LGT SKED: > 82 UNICOM: > 83 WIND INDICATOR: YES 84 SEGMENTED CIRCLE: YES 85 CONTROL TWR: NO 86 FSS: RENO 87 FSS ON ARPT: NO 88 FSS PHONE NR: 89 TOLL FREE NR: 1-800-WX-BRIEF</p>	<p>OPERATIONS</p> <p>100 AIR CARRIER: 0 102 AIR TAXI: 0 103 G A LOCAL: 360 104 G A ITNRNT: 0 105 MILITARY: 0 TOTAL: 360 OPERATIONS FOR 12 MONTHS ENDING: 03/31/2021</p>
--	--	--

RUNWAY DATA

> 30 RUNWAY INDENT:
 > 31 LENGTH:
 > 32 WIDTH:
 > 33 SURF TYPE-COND:
 > 34 SURF TREATMENT:
 35 GROSS WT: S
 36 (IN THSDS) D
 37 2D
 38 2D/2D2
 > 39 PCN:

17/35	3,418	60	DIRT-F
-------	-------	----	--------

LIGHTING/APCH AIDS

> 40 EDGE INTENSITY:
 > 42 RWY MARK TYPE-COND:
 > 43 VGSI:
 44 THR COSSING HGT.:
 45 VISUAL GLIDE ANGLE:
 > 46 CNTRLN-TDZ:
 > 47 RVR-RVV:
 > 48 REIL:
 > 49 APCH LIGHTS:

NSTD	- / -	- / -	- / -	- / -
/	/	/	/	/
/	/	/	/	/
/	/	/	/	/
- / -	- / -	- / -	- / -	- / -
- / -	- / -	- / -	- / -	- / -
/	/	/	/	/
/	/	/	/	/

OBSTRUCTION DATA

50 FAR 77 CATEGORY
 > 51 DISPLACED THR:
 > 52 CTLG OBSTN:
 > 53 OBSTN MARKED/LGTD:
 > 54 HGT ABOVE RWY END:
 > 55 DIST FROM RWY END:
 > 56 CNTRLN OFFSET:
 57 OBSTN CLNC SLOPE:
 58 CLOSE-IN OBSTN:

A(V) / A(V)	/	/	/	/
/	/	/	/	/
OTHER / BLDG	/	/	/	/
/ L	/	/	/	/
62 / 26	/	/	/	/
1,589 / 213	/	/	/	/
260L / 100L	/	/	/	/
26:1 / 8:1	/	/	/	/
N / N	/	/	/	/

DECLARED DISTANCES

> 60 TAKE OFF RUN AVBL (TORA):
 > 61 TAKE OFF DIST AVBL (TODA):
 > 62 ACLT STOP DIST AVBL (ASDA):
 > 63 LNDG DIST AVBL (LDA):

/	/	/	/	/
/	/	/	/	/
/	/	/	/	/
/	/	/	/	/

(>) ARPT MGR PLEASE ADVISE FSS IN ITEM 86 WHEN CHANGES OCCUR TO ITEMS PRECEDED BY >

> 110 REMARKS

A 003 PAR TWY CLSD INDEFLY.
 A 011 LEASED FROM BUREAU OF LAND MANAGEMENT, 1340 FINANCIAL BLVD., RENO, NV 89502, 775-882-1037
 A 030 RWY 17/35 CLSD INDEFLY. MARKED WITH YELLOW X'S AT EACH END.
 A 040 RWY 17/35 RY EDGE MARKED WITH REFLECTORS.
 A 052 RWY 17 ROCK CRUSHING / QUARRY EQUIPMENT
 A 057 RWY 17 ROCK CRUSHER SILO
 A 110-001 MOUNTAINS WEST & NORTH.
 A 110-002 RWY 17 GRADIENT +2.5% FIRST 500'.
 A 110-003 RWY 17/35 HAZARDOUS WHEN WET.
 A 110-005 UNCONTROLLED VEHICLE ACCESS ACROSS RYS.
 A 110-007 RY 17/35 THLDS MARKED WITH 4 WHITE CEMENT PADS FLUSH TO THE GROUND.
 A 110-008 NO LINE OF SIGHT BTN ENDS OF RY.
 A 110-009 RISING TERR AT RWY EDGES NARROWING PRI SFC AT CNTR OF RWY.
 A 110-010 FOR CD CTC NORCAL APCH AT 916-361-0596.
 A 110-011 (ARPT STATUS) ARPT CLSD INDEFLY.

111 INSPECTOR: (S) 112 LAST INSP: 04/26/2021 113 LAST INFO REQ:

> 1 ASSOC CITY: ***CONTINUED*** 4 STATE: NV LOC ID: N86 FAA SITE NR: 13123.01*A
 > 2 AIRPORT NAME: 5 COUNTY:
 3 CBD TO AIRPORT (NM): 6 REGION/ADO: AWP/PHX 7 SECT AERO CHT:

GENERAL

10 OWNERSHIP:
 > 11 OWNER:
 > 12 ADDRESS:
 > 13 PHONE NR:
 > 14 MANAGER:
 > 15 ADDRESS:
 > 16 PHONE NR:
 > 17 ATTENDANCE SCHEDULE:

SERVICES

> 70 FUEL:
 > 71 AIRFRAME RPRS:
 > 72 PWR PLANT RPRS:
 > 73 BOTTLE OXYGEN:
 > 74 BULK OXYGEN:
 75 TSNT STORAGE:
 76 OTHER SERVICES:

BASED AIRCRAFT

90 SINGLE ENG:
 91 MULTI ENG:
 92 JET:
 93 HELICOPTERS:
 TOTAL:
 94 GLIDERS:
 95 MILITARY:
 96 ULTRA-LIGHT:

FACILITIES

> 80 ARPT BCN:
 > 81 ARPT LGT SKED :
 BCN LGT SKED:
 > 82 UNICOM:
 > 83 WIND INDICATOR:
 84 SEGMENTED CIRCLE:
 85 CONTROL TWR:
 86 FSS:
 87 FSS ON ARPT:
 88 FSS PHONE NR:
 89 TOLL FREE NR:

OPERATIONS

100 AIR CARRIER:
 102 AIR TAXI:
 103 G A LOCAL:
 104 G A ITNRNT:
 105 MILITARY:
 TOTAL:
 OPERATIONS FOR
 12 MONTHS
 ENDING:

18 AIRPORT USE:
 19 ARPT LAT:
 20 ARPT LONG:
 21 ARPT ELEV:
 22 ACREAGE:
 > 23 RIGHT TRAFFIC:
 > 24 NON-COMM LANDING:
 25 NPIAS/FED AGREEMENTS:
 > 26 FAR 139 INDEX:

RUNWAY DATA

> 30 RUNWAY INDENT:
 > 31 LENGTH:
 > 32 WIDTH:
 > 33 SURF TYPE-COND:
 > 34 SURF TREATMENT:
 35 GROSS WT: S
 36 (IN THSDS) D
 37 2D
 38 2D/2D2
 > 39 PCN:

LIGHTING/APCH AIDS

> 40 EDGE INTENSITY:	- / -	- / -	- / -	- / -
> 42 RWY MARK TYPE-COND:	/	/	/	/
> 43 VGSI:	/	/	/	/
44 THR COSSING HGT.:	/	/	/	/
45 VISUAL GLIDE ANGLE:	/	/	/	/
> 46 CNTRLN-TDZ:	- / -	- / -	- / -	- / -
> 47 RVR-RVV:	- / -	- / -	- / -	- / -
> 48 REIL:	/	/	/	/
> 49 APCH LIGHTS:	/	/	/	/

OBSTRUCTION DATA

50 FAR 77 CATEGORY	/	/	/	/
> 51 DISPLACED THR:	/	/	/	/
> 52 CTLG OBSTN:	/	/	/	/
> 53 OBSTN MARKED/LGTD:	/	/	/	/
> 54 HGT ABOVE RWY END:	/	/	/	/
> 55 DIST FROM RWY END:	/	/	/	/
> 56 CNTRLN OFFSET:	/	/	/	/
57 OBSTN CLNC SLOPE:	/	/	/	/
58 CLOSE-IN OBSTN:	/	/	/	/

DECLARED DISTANCES

> 60 TAKE OFF RUN AVBL (TORA):	/	/	/	/
> 61 TAKE OFF DIST AVBL (TODA):	/	/	/	/
> 62 ACLT STOP DIST AVBL (ASDA):	/	/	/	/
> 63 LNDG DIST AVBL (LDA):	/	/	/	/

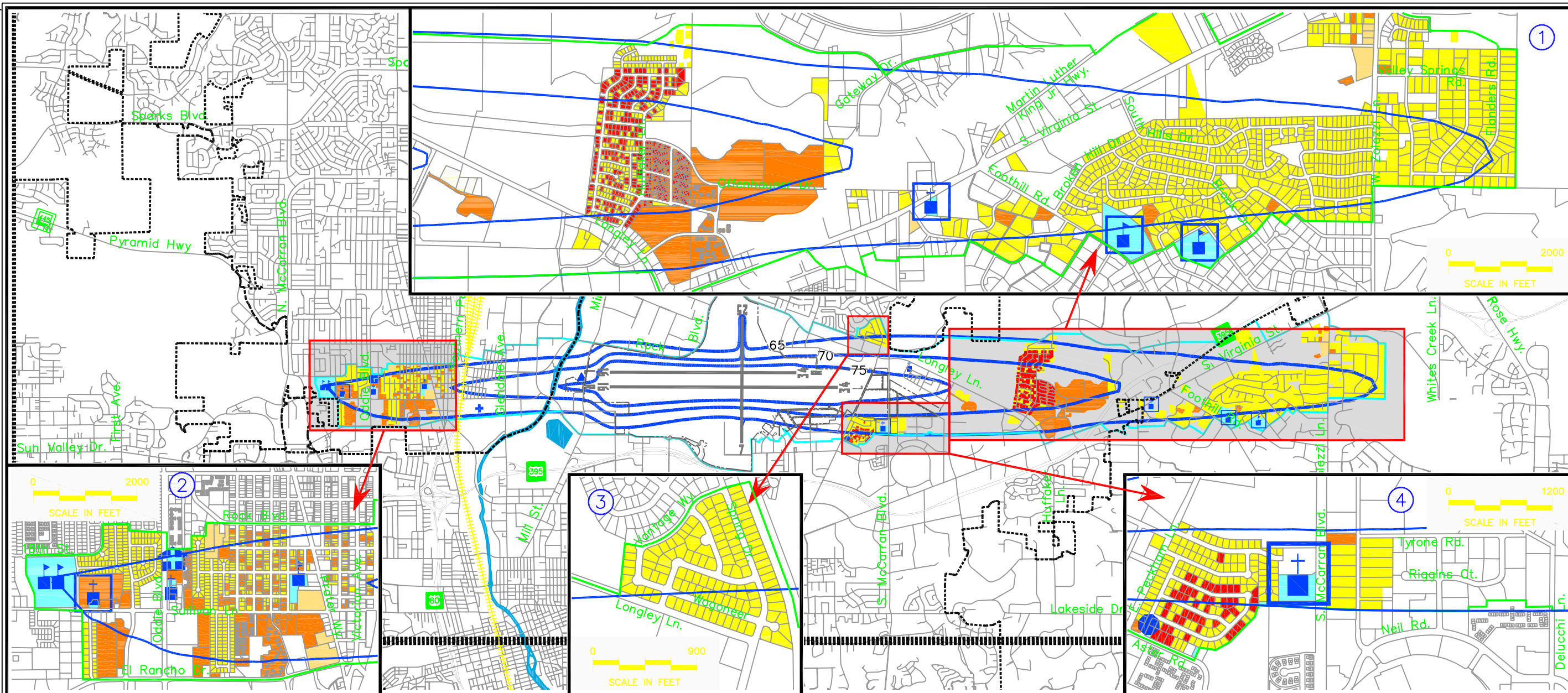
(>) ARPT MGR PLEASE ADVISE FSS IN ITEM 86 WHEN CHANGES OCCUR TO ITEMS PRECEDED BY >

> 110 REMARKS

111 INSPECTOR: (S)

112 LAST INSP: 04/26/2021

113 LAST INFO REQ:



LEGEND

- Airport Property
- Municipal Boundaries
- +++++ Railroad Tracks
- Study Area
- 2005 DNL Noise Exposure Contour
- Squared-off 2005 - 65 DNL Noise Exposure Contour
- Single Family Residential
- Multi-Family Residential
- Manufactured Housing
- Noise Sensitive Institutions
- Schools
- Medical Facilities
- Residential Care Facility
- Child Care Facility
- Places of Worship
- Federal Historic Structures
- Existing Sound Insulated Areas
- Noise Sensitive Institutions Eligible for Acoustical Treatment

The residential sound insulation program was completed in 2014.

Source: Washoe County Assessors DataBase, 2000. Aerial Photography, April 24, 2000. CFA & Coffman Associates Analysis

Notes: Noise Sensitive Development not meeting Building Codes or Constructed after October 1, 1998 are not eligible for the Sound Insulation Program.



E:\CAD\150'S\Logo's\Reno.tif

Appendix G

**Qualifications of
Environmental Professionals**



Lui Barkkume, PG, CESCO

Senior Project Manager

Education: B.S., Geology, Texas A&M University - Commerce, 1998
Indiana University, Bloomington (Course Work), Environmental Geology
Field Camp in Montana, Wyoming, and S. Dakota
Stephen F. Austin University (Course Work), Biology

Licenses/Registrations:

Texas Professional Geologist, No. 1937
NREP Certified Environmental and Safety Compliance Officer, No. 116912612
OSHA 29 CFR 1910.120 HAZWOPER, Cert. No. 13083
Texas Commission on Environmental Quality LPST Project Manager, No. PM0000299
Texas Department of State Health Services Licensed Lead Risk Assessor, No. 2070514
Texas Department of State Health Services Licensed Individual Asbestos Consultant, No. 105665

Summary of Professional Experience

Ms. Barkkume has been conducting Phase I and II Environmental Site Assessments and subsurface investigations of commercial, industrial and multi-family residential properties throughout the United States since 1999. She has also managed environmental planning and permit requirements associated with underground storage tank installations, monitoring and removals.

In addition, Ms. Barkkume has managed site assessments, asbestos-related projects and environmental litigation projects. Ms. Barkkume has also directed waste remediation action projects, provided interface with regulatory agencies and provided regulatory compliance with OSHA, RCRA, Texas Commission on Environmental Quality (TCEQ) and Texas Department of State Health Services (DSHS) regulations.

Ms. Barkkume has served as Senior Project Manager, where she performed and managed environmental site assessments on various industrial, commercial, institutional and residential properties. Assessments included limited and comprehensive surveys for asbestos, lead-based paint, lead-in-drinking-water and radon gas emissions. She has also managed subsurface investigations to determine the presence of contamination in soil and groundwater, prepared written reports in formats prescribed by various fiduciary institutions and performed peer reviews on environmental site assessments completed by other environmental firms.

**MULTIFAMILY ACCELERATED PROCESSING
(MAP)**

This Certificate is Awarded to

Lui Barkkume

For Successful Completion of the MAP Underwriting Training

Presented by

Atlanta Multifamily Hub



June 3, 2011

Date

Robert W. Reavis, Jr.

Robert W. Reavis, Jr.
Director
Atlanta Multifamily Hub

Appendix H

Terminology

TERMINOLOGY

The following provides definitions and descriptions of certain terms that may be used in this report. Italics indicate terms that are defined by ASTM Standard Practice E 1527. The Standard Practice should be referenced for further detail (such as the precise wording), related definitions or additional explanation regarding the meaning of terms.

Abandoned property – *property* that can be presumed to be deserted, or an intent to relinquish possession or control can be inferred from the general disrepair or lack of activity thereon such that a reasonable person could believe that there was an intent on the part of the current *owner* to surrender rights to the *property*.

Activity and use limitations – legal or physical restrictions of limitations on the use of, or access to, a site or facility: (1) to reduce or eliminate potential exposure to *hazardous substances* or *petroleum products* in the soil, soil vapor, groundwater and/or surface water on the *property*, or (2) to prevent activities that could interfere with the effectiveness of a response action, in order to ensure maintenance of a condition of no significant risk to public health or the environment. These legal or physical restrictions, which may include institutional and/or *engineering controls*, are intended to prevent adverse impacts to individuals or populations that may be exposed to *hazardous substances* and *petroleum products* in the soil, soil vapor, groundwater and/or surface water on the *property*.

Actual knowledge – the knowledge actually possessed by an individual who is a real person, rather than an entity. *Actual knowledge* is to be distinguished from constructive knowledge that is knowledge imputed to an individual or entity.

Adjoining properties - any real property or properties the border of which is contiguous or partially contiguous with that of the *property*, or that would be contiguous or partially contiguous with that of the *property* but for a street, road, or other public thoroughfare separating them.

Aerial photographs – photographs taken from an aerial platform with sufficient resolution to allow identification of development and activities of areas encompassing the *property*. *Aerial photographs* are often available from government agencies or private collections unique to a local area.

All appropriate inquiry—that inquiry constituting “*all appropriate inquiry* into the previous ownership and uses of the *property* consistent with good commercial or customary practice” as defined in CERCLA, 42 U.S.C §9601(35)(B), that will qualify a party to a *commercial real estate transaction* for one of threshold criteria for satisfying the *LLPs* to CERCLA liability (42 U.S.C §9601(35)(A) & (B), §9607(b)(3), §9607(q); and §9607(r)), assuming compliance with other elements of the defense.

Approximate minimum search distance – the area for which records must be obtained and reviewed pursuant to ASTM Standard Practice E 1527, subject to limitations provided. This may include areas outside the *property* and shall be measured from the nearest *property* boundary. This term is used in lieu of radius to include irregularly shaped properties.

Business environmental risk – a risk which can have a material environmental or environmentally-driven impact on the business associated with the current or planned use of a parcel of *commercial real estate*, not necessarily limited to those environmental issues required to be investigated in this practice. Consideration of *business environmental risk* issues may involve addressing one or more non-scope considerations.

Comprehensive Environmental Response, Compensation, and Liability Information System (CERCLIS)—the list of sites compiled by EPA that EPA has investigated or is currently investigating for potential *hazardous substance* contamination for possible inclusion on the *National Priorities List*.

Controlled recognized environmental condition – a *recognized environmental condition* resulting from a past release of *hazardous substances* or *petroleum products* that has been addressed to the satisfaction of the applicable regulatory authority (for example, as evidenced by the issuance of a no further action letter or equivalent, or meeting risk-based criteria established by regulatory authority), with *hazardous substances* or *petroleum products* allowed to remain in place subject to the implementation of required controls (for example, *property* use restrictions, *activity and use limitations*, *institutional controls*, or *engineering controls*).

De minimis condition – a condition that generally does not present a threat to human health or the *environment* and that generally would not be the subject of an enforcement action if brought to the attention of appropriate governmental agencies. Conditions determined to be *de minimis conditions* are not *recognized environmental conditions* nor *controlled recognized conditions*.

Engineering controls – physical modifications to a site or facility (for example, capping, slurry walls, or point of use water treatment) to reduce or eliminate the potential for exposure to hazardous substances or petroleum products in the soil or groundwater on the *property*. *Engineering controls* are a type of *activity and use limitation*.

Environment – environment shall have the same meaning as the definition of environment in CERCLA 42 U.S.C. §9601(8): The term “environment” means (A) the navigable waters, the waters of the contiguous zone, and the ocean waters of which the natural resources are under the exclusive management authority of the United States under the Fishery Conservation Management Act, and (B) any other surface water, groundwater, drinking water supply, land surface or subsurface strata, or ambient air within the United States or under the jurisdiction of the United States.

Environmental Lien - a charge, security, or encumbrance upon title to a *property* to secure the payment of a cost, damage, debt, obligation, or duty arising out of response actions, cleanup, or other remediation of *hazardous substances* or *petroleum products* upon a *property*, including (but not limited to) liens imposed pursuant to CERCLA 42 U.S.C. §§9607(1) & 9607(R) and similar state or local laws.

Environmental professional—a person meeting the education, training, and experience requirements as set forth in 40 CFR §312.10(b). The person may be an independent contractor or an employee of the *user*.

Environmental site assessment (ESA)—the process by which a person or entity seeks to determine if a particular parcel of real *property* (including improvements) is subject to *recognized environmental conditions*. At the option of the *user*, an *environmental site assessment* may include more inquiry than that constituting *all appropriate inquiry* or, if the *user* is not concerned about qualifying for the *LLPs*, less inquiry than that constituting *all appropriate inquiry*. An *environmental site assessment* is both different from and less rigorous than an *environmental compliance audit*.

General risk of enforcement action – the likelihood that an environmental condition would be subject to enforcement action if brought to the attention of appropriate governmental agencies. If the circumstances suggest an enforcement action would be more likely than not, then the condition is considered a general risk of enforcement action.

Hazardous substance—a substance defined as a *hazardous substance* pursuant to CERCLA 42 U.S.C. §9601(14), as interpreted by EPA regulations and the courts: “(A) any substance designated pursuant to section 1321(b)(2)(A) of Title 33, (B) any element, compound, mixture, solution, or substance designated pursuant to section 9602 of this title, (C) any *hazardous waste* having the characteristics identified under or listed pursuant to section 3001 of the Resource Conservation and Recovery Act of 1976 (RCRA), as

amended, (42 U.S.C. §6921) (but not including any waste the regulation of which under RCRA (42 U.S.C. §§6901 *et seq.*) has been suspended by Act of Congress), (D) any toxic pollutant listed under section 1317(a) of Title 33, (E) any hazardous air pollutant listed under section 112 of the Clean Air Act (42 U.S.C. §7412), and (F) any imminently hazardous chemical substance or mixture with respect to which the Administrator (of EPA) has taken action pursuant to section 2606 of Title 15. The term does not include petroleum, including crude oil or any fraction thereof which is not otherwise specifically listed or designated as a *hazardous substance* under subparagraphs (A) through (F) of this paragraph, and the term does not include natural gas, natural gas liquids, liquefied natural gas, or synthetic gas usable for fuel (or mixtures of natural gas and such synthetic gas).”

Historical recognized environmental condition - a past release of any *hazardous substances* or *petroleum products* that has occurred in connection with the *property* and has been addressed to the satisfaction of the applicable regulatory authority or meeting unrestricted use criteria established by a regulatory authority, without subjecting the property to any required controls (for example, property use restrictions, activity and use limitations institutional controls, or engineering controls).

Innocent land owner defense – (CERCLA 42 U.S.C. §9601(35) & 9607(b)(3)) – a person may qualify as one of three types of innocent landowners: (i) a person who “did not know and had no reason to know” that contamination existed on the *property* at the time the purchaser acquired the *property*; (ii) a government entity which acquired the *property* by escheat, or through any other involuntary transfer or acquisition, or through the exercise of eminent domain authority by purchase or condemnation; and (iii) a person who “acquired the facility by inheritance of bequest.” To qualify for the innocent landowner defense, such person must have made all appropriate inquiries on or before the date of purchase. Furthermore, the *all appropriate inquiries* must not have resulted in knowledge of the contamination. If it does, then such person did “know” or “had reason to know” of contamination and would not be eligible for the *innocent landowner defense*.

Material impact to public health or environment – a substantial risk of harm to public health or the environment resulting from the presence or likely presence of an existing release, a past release, or a *material threat* of a release of any *hazardous substances* or *petroleum products* into structures on the *property* or into the ground, ground water, or surface water of the *property*. An example might include a release of a hazardous substance in concentrations exceeding applicable governmental agency standards under conditions that could reasonably and foreseeably result in substantial exposure to humans or substantial damage to natural resources. The risk of that exposure or damage would represent a material impact to public health or environment.

Material threat – a physically observable or obvious threat which is reasonably likely to lead to a release that, in the opinion of the *environmental professional*, is threatening and might result in impact to public health or the environment. An example might include an aboveground storage tank that contains a hazardous substance and which shows evidence of damage such that it may cause or contribute to tank integrity failure with a release of contents to the environment.

Migrate/migration – for the purposes of this practice, “migrate” and “migration” refers to the movement of *hazardous substances* or *petroleum products* in any form, including, for example, solid and liquid at the surface or subsurface, and vapor in the subsurface.

National Priorities List (NPL)—list compiled by EPA pursuant to CERCLA 42 U.S.C. §9605(a)(8)(B) of properties with the highest priority for cleanup pursuant to EPA’s Hazard Ranking System. See 40 C.F.R. Part 300.

Owner – generally the fee *owner* of record of the *property*.

Petroleum products—those substances included within the meaning of the *petroleum exclusion* to CERCLA 42 U.S.C. §9601(14), as interpreted by the courts and EPA, that is: petroleum, including crude oil or any fraction thereof which is not otherwise specifically listed or designated as a *hazardous substance* under Subparagraphs (A) through (F) of 42 U.S.C. § 9601(14), natural gas, natural gas liquids, liquefied natural gas, and synthetic gas usable for fuel (or mixtures of natural gas and such synthetic gas). (The word fraction refers to certain distillates of crude oil, including gasoline, kerosine, diesel oil, jet fuels, and fuel oil, pursuant to Standard Definitions of Petroleum Statistics.5)

Property – the real *property* that is the subject of the *environmental site assessment* described in this practice. Real property includes buildings and other fixtures and improvements located on the *property* and affixed to the land.

Reasonably ascertainable – information that is (1) *publically available*, (2) obtainable from its source within reasonable time and cost constraints, and (3) *practically reviewable*.

Recognized environmental condition(s) (REC) - the presence or likely presence of any *hazardous substances* or *petroleum products* in, on or at a *property*: (1) due to release to the *environment*; (2) under conditions indicative of a *release* to the *environment*; or (3) under conditions that pose a *material threat* of future *release* to the environment. *De minimis conditions* are not *recognized environmental conditions*.

Release – a *release* of any *hazardous substance* or *petroleum product* shall have the same meaning as the definition of “release” in CERCLA 42 U.S.C. §9601(22): The term “release” means any spilling, leaking, pumping, pouring, emitting, emptying, discharging, injecting, escaping, leaching, dumping or disposing into the environment, but excludes: certain workplace exposures; emissions from the engine exhaust of a motor vehicle, rolling stock, aircraft, vessel, or pipeline pumping station; and release of source, byproduct, or special nuclear material from a nuclear incident.

User—the party seeking to use Practice E 1527 to complete an *environmental site assessment* of the *property*. A *user* may include, without limitation, a potential purchaser of *property*, a potential tenant of *property*, an *owner* of *property*, a lender, or a *property* manager.