

**BEFORE THE PUBLIC UTILITIES COMMISSION OF NEVADA**

**In Re Application of Edgewood Water Company )  
for Permit Under Utility Environmental )  
Protection Act for Construction of Ultraviolet )  
Light (UV) Treatment Facility to Comply With )  
Long Term 2 Enhanced Surface Water )  
Treatment Rule (LT2) and Related Facilities )**

**Docket No. \_\_\_\_\_**

**APPLICATION OF EDGEWOOD WATER COMPANY  
FOR PERMIT UNDER UTILITY ENVIRONMENTAL PROTECTION ACT  
FOR CONSTRUCTION OF ULTRAVIOLET LIGHT (UV) TREATMENT FACILITY  
TO COMPLY WITH LONG TERM 2 ENHANCED SURFACE WATER TREATMENT  
RULE (LT2) AND RELATED FACILITIES**

**COVER SHEET**

- A. Applicant: Edgewood Water Company (“Edgewood”)
- B. Proposed Utility Facility: Ultraviolet Light (UV) Treatment Facility to comply with United States Environmental Protection Agency Long Term 2 Enhanced Surface Water Treatment Rule (LT2) and related facilities
- C. For Additional Information Contact:  
  
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gdepaoli@woodburnandwedge.com
- D. Abstract of Environmental Statement: An Initial Environmental Checklist (IEC) was completed in connection with Edgewood’s application to the Tahoe Regional Planning Agency (TRPA) for this project. The IEC indicates no significant environmental impact from this project.
- E. Public Notice: Pursuant to N.R.S. 704.870(4)(b), the public notice of Edgewood’s Application will be published in the Record Courtier of Gardnerville, Nevada on December 13 and 18, 2013 and in the Reno Gazette-Journal on December 12 and 19, 2013. A copy of the public notice to be published is attached hereto as Exhibit A.

Affidavit of Publication: The Affidavits of Publication of the public notice in the Record Courier and Reno Gazette-Journal will be filed as soon as available under separate cover.

**NOTICE OF APPLICATION FOR PERMIT  
UNDER UTILITY ENVIRONMENTAL PROTECTION ACT  
FOR CONSTRUCTION OF ULTRAVIOLET LIGHT (UV) TREATMENT  
FACILITY AND RELATED FACILITIES**

PLEASE TAKE NOTICE THAT EDGEWOOD WATER COMPANY (“EDGEWOOD”) will file an Application with the Public Utilities Commission of Nevada (“Commission”) for a Permit Under the Utility Environmental Protection Act for construction of an Ultraviolet Light (UV) Treatment Facility and Related Facilities at its facilities located in Douglas County, Stateline, Nevada. Edgewood provides water service at Stateline, Lake Tahoe, Nevada.

The new facilities are needed to comply with Federal safe drinking water requirements, specifically the Long Term 2 Enhanced Surface Water Treatment Rule.

**EXHIBIT A**

**BEFORE THE PUBLIC UTILITIES COMMISSION OF NEVADA**

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FOR CONSTRUCTION OF ULTRAVIOLET LIGHT (UV) TREATMENT FACILITY TO  
COMPLY WITH LONG TERM 2 ENHANCED SURFACE WATER TREATMENT RULE  
(LT2) AND RELATED FACILITIES**

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Minden, Nevada 89423

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## TABLE OF CONTENTS

		<u>Page(s)</u>
SUMMARY .....		1
I. DESCRIPTION OF LOCATION OF PROPOSED FACILITY .....		1
A. General Description of Location of the Proposed Utility Facility and Regional Map Identifying the Location of the Proposed Facility ...		1
B. Legal Description of Site. ....		2
C. Appropriately Scaled Site Plan Drawings of the Proposed Utility Facility, Vicinity Maps, and Routing Maps .....		2
II. DESCRIPTION OF PROPOSED UTILITY FACILITY .....		2
A. Description of Size and Nature of Proposed Facility .....		2
B. Description of Natural Resources That Will Be Used During the Construction and Operation of the Proposed Facility .....		3
C. Layout Diagrams of Proposed Facility and Its Associated Equipment ...		3
D. Scaled Diagrams of the Structures at the Proposed Facility .....		3
III. COPIES AND SUMMARIES OF STUDIES THAT HAVE BEEN MADE OF THE ENVIRONMENTAL IMPACT OF THE PROPOSED FACILITY ...		3
IV. REASONABLE ALTERNATIVE LOCATIONS FOR PROPOSED FACILITY .....		3
A. Description of Reasonable Alternative Locations for the Proposed Facility .....		3
B. Description of the Comparative Merits or Detriments of Each Location Submitted .....		4
C. Statement of Reasons Why the Location Chosen Is Best Suited for the Proposed Facility .....		4

	<u>Page(s)</u>
V. COPIES OF PUBLIC NOTICES OF THE APPLICATION AND PROOF OF PUBLICATION OF PUBLIC NOTICE . . . . .	4
VI. PROOF OF SUBMISSION OF COPY OF APPLICATION TO THE NEVADA STATE CLEARINGHOUSE WITHIN THE DEPARTMENT OF ADMINISTRATION TO ALLOW AGENCY REVIEW AND COMMENT . . .	4
VII. EXPLANATION OF THE NATURE AND PROBABLE EFFECT OF CONSTRUCTION OF THE PROPOSED FACILITY ON THE ENVIRONMENT . . . . .	4
A. Reference to Studies Described in Section III Above . . . . .	5
B. Environmental Statement . . . . .	5
1. Names, Qualifications, Professions and Contact Information of Each Person with Primary Responsibility for Preparation of the Environmental Statement and of Each Person Providing Comments or Input in the Preparation of the Statement . . . . .	5
2. Bibliography of Materials Used in the Preparation of the Environmental Statement . . . . .	6
3. Description of the Environmental Characteristics of the Project Area Existing at Time of Filing of This Application With the Public Utilities Commission of Nevada . . . . .	6
4. Description of the Environmental Impacts That the Construction and Operation of the Proposed Facility Will Have on the Project Area Before Mitigation . . . . .	6
5. Description of the Environmental Impacts That the Construction and Operation of the Proposed Facility Will Have After Mitigation . . . . .	6
VIII. EXPLANATION OF THE EXTENT TO WHICH THE PROPOSED FACILITY IS NEEDED TO ENSURE RELIABLE UTILITY SERVICE TO CUSTOMERS IN NEVADA . . . . .	7
A. Description of the Extent to Which the Proposed Facility Will Provide Utility Service to Customers in Nevada . . . . .	7

	<u>Page(s)</u>
B. Description of the Extent to Which the Proposed Facility Will Enhance the Reliability of Utility Service in Nevada . . . . .	7
IX. EXPLANATION OF HOW THE NEED FOR THE PROPOSED FACILITY DESCRIBED IN SECTION VIII BALANCES ANY ADVERSE EFFECTS ON THE ENVIRONMENT AS DESCRIBED IN SECTION VII . . . . .	7
X. EXPLANATION OF HOW THE PROPOSED FACILITY REPRESENTS THE MINIMUM ADVERSE EFFECT ON THE ENVIRONMENT . . . . .	7
A. State of Available Technology . . . . .	8
B. Nature of Various Alternatives . . . . .	8
C. Economics of Various Alternatives . . . . .	9
XI. EXPLANATION OF HOW THE LOCATION OF THE PROPOSED FACILITY CONFORMS TO APPLICABLE STATE AND LOCAL LAWS AND REGULATIONS . . . . .	10
A. List of All Permits, Licenses and Approvals Required by Federal, State and Local Statutes, Regulations and Ordinances . . . . .	10
B. List of All Permits, Licenses and Approvals Applicant Is in the Process of Obtaining to Commence Construction of the Proposed Facility and Estimated Timeline for Obtaining These Permits, Licenses and Approvals . . . . .	11
XII. EXPLANATION OF HOW THE PROPOSED FACILITY WILL SERVE THE PUBLIC INTEREST . . . . .	11
A. The Economic Benefits That the Proposed Facility Will Bring to Edgewood and Nevada . . . . .	11
B. The Nature of the Probable Effect on the Environment in This State if the Proposed Facility Is Constructed . . . . .	11
C. The Nature of the Probable Effect on the Public Health, Safety and Welfare of the Residents of Nevada if the Proposed Facility Is Constructed . . . . .	11

**EXHIBITS**

Exhibit A	Map of Edgewood Water Company's Service Area
Exhibit B	UV Treatment Facility Vicinity Map
Exhibit C	UV Treatment Facility Site Plan
Exhibit D	UV Treatment Facility Regional Map
Exhibit E	UV Treatment Facility Layout Diagram
Exhibit F	UV Treatment Facility Structure
Exhibit G	Tahoe Regional Planning Agency Project Review Application Form
Exhibit H	Notice of Application for Permit Under Utility Environmental Protection Act for Construction of Ultraviolet Light (UV) Treatment Facility and Related Facilities
Exhibit I	Proof of Service on Nevada State Clearinghouse
Exhibit J	Tahoe Regional Planning Agency Permit dated August 12, 2013

## **SUMMARY.**

Edgewood Water Company (Edgewood) provides water service to an area that includes the Stateline, Douglas County, Nevada casino core area, Edgewood Golf and Clubhouse and Van Sickle Bi-State Park. Its service area includes the recently permitted (but yet to be built) Edgewood Lodge with its 154 guest units and 40 fractional ownership units. A map of the Edgewood Water Service Area is provided in Exhibit A attached hereto and by this referenced incorporated herein.

Edgewood operates a surface water treatment plant that utilizes ozone treatment, with no filtration, under the terms of a filtration avoidance waiver from Nevada Department of Environmental Protection (NDEP). Edgewood pumps water from Lake Tahoe via a pump station and through a raw water transmission main to its treatment plant.

Pursuant to N.R.S. 704.870 and N.A.C 703.415 et seq., Edgewood hereby applies for a permit under the Utility Environmental Protection Act (UEPA) to modify and expand its existing treatment plant to include ultraviolet light (UV) water treatment which is necessary to meet the treatment standards of United States Environmental Protection Agency Long Term 2 Enhanced Surface Water Treatment Rule (LT2). The existing Edgewood ozone water treatment plant is in compliance with current surface water treatment rules. However, modifications to the current treatment plant are required to comply with LT2. The proposed project includes the installation of a new UV treatment facility inclusive of a 480 square foot structure for the UV treatment components. To extend the expected life of the existing ozone facility, upgrades will be made to the Ozone Water Treatment Plant to continue the operation of the ozone plant for taste and odor control. Trenching to a maximum depth of 4.5 feet and length of 80 feet will be required for the installation of the inlet and outlet pipes that will transport water between the existing ozone contact tank and the new UV Treatment Facility.

The new UV Treatment Facility is proposed to be constructed within the current water treatment plant site. The current plant is located on APN 1318-00-002-006 and 1318-00-002-005, Township 13 N, Range 18 E, Section 26 (see Vicinity Map attached as Exhibit B and the UV Site Plan attached hereto and by this reference incorporated herein as Exhibit C). Construction of the treatment plant addition will begin as soon as possible after all permits are obtained, and is intended to be completed so that the new facilities are in operation by October 1, 2014.

### **I. DESCRIPTION OF LOCATION OF PROPOSED FACILITY.**

#### **A. General Description of Location of the Proposed Utility Facility and Regional Map Identifying the Location of the Proposed Facility**

The UV Treatment Facility will be located on land within TRPA Land Capability Class 4 across the paved access drive from the existing ozone treatment facility located at Stateline,

Douglas County, Nevada. The new UV Treatment Facility is proposed to be located on APN 1318-00-002-005, which is located within Edgewood's service area.

A regional map showing the general location of the proposed UV Treatment Facility and related facilities is attached hereto and by this reference incorporated herein as Exhibit D.

**B. Legal Description of Site.**

The project will be located across current Douglas County APN 1318-00-002-006 and 1318-00-002-005. Substantially all of the facilities will be located at or near the existing Edgewood Ozone Water Treatment Plant. See Site Plan, Exhibit C.

**C. Appropriately Scaled Site Plan Drawings of the Proposed Utility Facility, Vicinity Maps and Routing Maps.**

A map showing the location of the UV Treatment Facility and related facilities is by this reference incorporated herein and attached hereto as Exhibit C.

**II. DESCRIPTION OF THE PROPOSED UTILITY FACILITY.**

**A. Description of Size and Nature of Proposed Facility.**

The UV water treatment facility will be located at Edgewood's existing Ozone Water Treatment Plant in Stateline, Douglas County, Nevada, APN 1318-00-002-005, Township 13 N, Range 18 E, Section 26 (see Vicinity Map attached as Exhibit B and the UV Site Plan attached as Exhibit C). The selected treatment system includes the continued operation of the existing ozone plant (for taste and odor control) and the construction of a new ultraviolet disinfection (UV) facility.

To house the UV Treatment Facility, Edgewood proposes to construct a one-story building with a maximum height of 18' and a foundation footprint of 16' x 30' (480 square feet). Connecting the new UV disinfection facility to the existing paved access road will be a new driveway (103 square feet). The new impervious land coverage proposed with this project is 583 square feet.

Trenching to a maximum depth of 4.5 feet will be required for the installation of inlet and outlet pipes that will transport water between the existing ozone contact tank and the new UV Treatment Facility.

As part of the 1996 process that permitted the ozone treatment plant, TRPA recognized the following impervious land coverage figures:

- Tanks and Buildings 11,785 square feet
- Paving 6,761 square feet

- Walks 633 square feet
- Compacted Dirt Roads 429 square feet

**B. Description of Natural Resources That Will Be Used During the Construction and Operation of the Proposed Facility.**

No significant impacts to natural resources are anticipated from construction of the UV Treatment Facility and related facilities. No significant impacts to natural resources are anticipated from operation of the UV Facility.

Resources required for construction include:

- Approximately 170 lineal feet (LF) of 14” ductile iron pipe water main;
- Approximately 50 LF of 1-1/2” polyvinylchloride (PVC) water lateral pipe;
- Four (4) each 1/4” diameter gate valves;
- One (1) each 1-1/2” corporation stop;
- One (1) each fire hydrant assembly;
- Building materials requisite for construction of a new 450 square foot masonry building;
- AC pavement materials required to patch existing AC pavement disturbed during construction;
- Fuel for vehicles and equipment used to excavate, bed and backfill site water lines and related facilities; and
- Fuel for vehicles and equipment necessary to transport imported materials to site for construction of the masonry building.

**C. Layout Diagrams of Proposed Facility and Its Associated Equipment.**

See Exhibit E, Layout Diagram.

**D. Scaled Diagrams of the Structures at the Proposed Facility.**

See Exhibit F, Structure Diagram.

**III. COPIES AND SUMMARIES OF STUDIES THAT HAVE BEEN MADE OF THE ENVIRONMENTAL IMPACT OF THE PROPOSED FACILITY.**

A Tahoe Regional Planning Agency (TRPA) Initial Environmental Checklist (IEC) was prepared to analyze the impacts of the UV and related facilities. The IEC indicates no significant environmental impact from this project. A copy of the IEC is attached hereto as Exhibit G.

**IV. REASONABLE ALTERNATE LOCATIONS FOR PROPOSED FACILITY.**

**A. Description of Reasonable Alternative Locations for the Proposed Facility.**

Because of the design of Edgewood's existing water system where raw water from Lake Tahoe is pumped to the Ozone Water Treatment Plant located approximately 6,123 feet and upgrade from Edgewood's Lake pump station near the shore of Lake Tahoe, the UV Treatment Facility must be located at the site of the existing Ozone Water Treatment Plant. Locating the UV Treatment Facility at any other location would require a relocation of the existing Ozone Water Treatment Plant or extensive piping to connect the two treatment systems together prior to distributing treated water to users. Any such potential alternative location would have therefore resulted in significantly increased costs and environmental impacts. As a result, no alternate sites were evaluated. The existing site accommodates all of Edgewood's water treatment needs currently, and contains the infrastructure necessary to accommodate additional treatment facilities.

**B. Description of the Comparative Merits or Detriments of Each Location Submitted.**

No other locations were considered.

**C. Statement of Reasons Why the Location Chosen Is Best Suited for the Proposed Facility.**

The location chosen for the facility is best suited for it because it is the location with the least environmental impacts, and will be the least costly to construct.

**V. COPIES OF PUBLIC NOTICES OF THE APPLICATION AND PROOF OF PUBLICATION OF PUBLIC NOTICE.**

A copy of the Public Notice of the Application as required by N.R.S. § 704.870(4) and N.A.C. § 703.423(5) is by this reference incorporated herein and attached here as Exhibit H. A copy of the proofs of publication will be filed as soon as they are available under separate cover.

**VI. PROOF OF SUBMISSION OF COPY OF APPLICATION TO THE NEVADA STATE CLEARINGHOUSE WITHIN THE DEPARTMENT OF ADMINISTRATION TO ALLOW AGENCY REVIEW AND COMMENT.**

A proof of service of this Application on the Nevada State Clearinghouse is by this reference incorporated herein and attached hereto as Exhibit I.

**VII. EXPLANATION OF THE NATURE AND PROBABLE EFFECT OF CONSTRUCTION OF THE PROPOSED FACILITY ON THE ENVIRONMENT.**

Construction of the proposed UV Treatment Facility will have no significant environmental impact. The inlet and outlet pipes will be buried. The building addition is adjacent to the existing Ozone Water Treatment Plant, and is screened by a canopy of trees.

To house the UV Treatment Facility, Edgewood proposes to construct a one-story building with a maximum height of 18' and a foundation footprint of 16' x 30' (480 square feet). Connecting the new UV Treatment Facility to the existing paved access road will be a new driveway (103 square feet). New total impervious land coverage proposed is about 583 square feet.

The proposed project, and preferred alternative, places the UV Treatment Facility at the site of the existing Ozone Water Treatment Plant in an area that is consistent with all applicable TRPA standards and policies. No adverse environmental impacts have been identified.

**A. Reference to Studies Described in Section III Above.**

An IEC is by this reference incorporated herein and attached hereto as Exhibit G. The TRPA permit is included as a part of Exhibit G.

**B. Environmental Statement.**

**1. Names, Qualifications, Professions and Contact Information of Each Person With Primary Responsibility for Preparation of the Environmental Statement and of Each Person Providing Comments or Input in the Preparation of the Statement:**

Names	Qualifications / Profession	Contact Information
Robert O. Anderson R.O. Anderson Engineers 1603 Esmeralda Avenue Minden, Nevada 89423	P.E.; CFM, WRS Mr. Anderson has over 30 years of infrastructure planning, analysis and design experience for municipal systems, including potable drinking water treatment and distribution. His experience includes serving as the District Engineer for municipal water and sewer districts in both Nevada and California. He is accomplished in administering complex construction contracts in difficult regulatory environments.	775-215-5026
Coleen Shade R.O. Anderson Engineers 595 Tahoe Keys Blvd., Ste. A-2 S. Lake Tahoe, California 96150	AICP, CEP Ms. Shade has over 24 years of experience in environmental and land use planning. Her experience includes environmental analysis for both the public and private sectors under the National Environmental Policy Act (NEPA), California Environmental Quality Act	530-600-1660

Names	Qualifications / Profession	Contact Information
	(CEQA), and the Tahoe Regional Planning Agency (TRPA) Compact.	
Tahoe Regional Planning Agency (TRPA) P.O. Box 5310 Stateline, Nevada 89449  David L. Landry	Senior Planner	775-588-4547

**2. Bibliography of Materials Used in the Preparation of the Environmental Statement.**

TRPA Project Review Application Form  
 TRPA Public Service Application Checklist (TRPA Master Checklist)  
 TRPA Scenic Impact Assessment Form and Scenic Impact Checklist

**3. Description of the Environmental Characteristics of the Project Area Existing at Time of Filing of This Application With the Public Utilities Commission of Nevada.**

The project area is a previously disturbed site within the Tahoe Basin that is generally characterized as being of moderate slope with some rock outcroppings, and the predominant vegetation is forest with mature pine trees. The site has not been designated as having either sensitive soil or plant characteristics that would otherwise limit the use of the property for the intended purposes. The existing ozone treatment plant and two water storage tanks are located at the project site. The project area is less than one mile from Highway 50 and the Stateline, Nevada casino core. It is just east and upslope from Friday's Station.

**4. Description of the Environmental Impacts That the Construction and Operation of the Proposed Facility Will Have on the Project Area Before Mitigation.**

To complete construction of the contemplated improvements, site disturbing activities, including excavation, trenching, bedding and backfill of excavated areas, will be undertaken on-site and within the fence of the existing treatment plant site. Site disturbing activities will be limited to these areas, and no adverse environmental impacts associated with the contemplated improvements have been identified. No environmental impacts are expected from operation.

**5. Description of the Environmental Impacts That the Construction and Operation of This Proposed Facility Will Have After Mitigation.**

To complete construction of the contemplated improvements, site disturbing activities, including excavation, trenching, bedding and backfill of excavated areas, will be undertaken on-site and within the fence of the existing treatment plant site. Site disturbing activities will be limited to these areas, and no adverse environmental impacts associated with the contemplated improvements have been identified. Upon completion of construction, disturbed areas (outside the proposed building and paved areas) will be graded to slight slopes to minimize potential for long-term soil erosion. No adverse environmental impacts have been identified. No environmental impacts are expected from operation. No mitigation is required.

**VIII. EXPLANATION OF THE EXTENT TO WHICH THE PROPOSED FACILITY IS NEEDED TO ENSURE RELIABLE UTILITY SERVICE TO CUSTOMERS IN NEVADA.**

**A. Description of the Extent to Which the Proposed Facility Will Provide Utility Service to Customers in Nevada.**

The UV Treatment Facility, together with the upgrade to the existing ozone disinfection system, is designed to provide improved treatment of potable water supplies consistent with the LT2 Rule, and ensure a safe drinking water supply for Edgewood's customers and their guests in Nevada. The purpose for the LT2 Rule is to ensure the control and removal of microbial pathogens in current systems, and to ensure that systems maintain microbial protection over time. The LT2 Rule requires certain public water systems to provide additional removal or inactivation of cryptosporidium. The majority of the guests of Edgewood's customers are visitors to the Lake Tahoe Basin, and a safe and acceptable water supply is critical to ensure the health and viability of Nevada's tourist industry at Lake Tahoe.

**B. Description of the Extent to Which the Proposed Facility Will Enhance the Reliability of Utility Service in Nevada.**

The proposed Edgewood UV Treatment Facility and related facilities will enhance the reliability of utility service in Nevada by allowing Edgewood to provide water for drinking which meets the Federal standards for safe drinking water.

**IX. EXPLANATION OF HOW THE NEED FOR THE PROPOSED FACILITY DESCRIBED IN SECTION VIII BALANCES ANY ADVERSE EFFECTS ON THE ENVIRONMENT AS DESCRIBED IN SECTION VII.**

As noted above, construction of the UV Treatment Facility will not have a significant effect on the environment. The facility is needed so that Edgewood can continue to provide water which meets Federal standards for safe drinking water for its customers and their guests.

**X. EXPLANATION OF HOW THE PROPOSED FACILITY REPRESENTS THE MINIMUM ADVERSE EFFECT ON THE ENVIRONMENT.**

The UV Treatment Facility has been located and sized to have minimum effects on the environment. The TRPA has found that it will not have a significant effect on the environment.

**A. State of Available Technology.**

UV offers a cost effective, secondary barrier of protection to safeguard drinking water against virtually all microorganisms treated by chlorine, as well as inactivation of protozoa (cryptosporidium) that are resistant to chlorine. UV is able to provide up to 4-log inactivation of cryptosporidium oocytes in drinking water applications, which are extremely resistant to chlorine and most other disinfectants. UV does not create disinfection byproducts, as no chemicals are used.

The mechanism of disinfection by UV light differs considerably from the mechanisms of chemical disinfectants such as chlorine and ozone. Chemical disinfectants inactivate microorganisms by destroying or damaging cellular structures, interfering with metabolism, and hindering biosynthesis and growth. UV light inactivates microorganisms by damaging their DNA, thereby preventing replication. A microorganism that cannot replicate cannot infect a host, including humans.

Often the objectionable taste and odor of treated water is caused by algae. UV will not remove algae, thereby necessitating the retention of the ozone plant operation along with the UV in order to mitigate taste and odor episodes.

**B. Nature of Various Alternatives.**

The alternatives that were considered all address different forms of water treatment to achieve compliance with the LT2 Rule, minimize capital and operating costs, and address Nevada energy efficiency goals. The following are the water treatment alternatives which were evaluated.

1. Replacement of the existing ozone generators with larger generators
2. The use of chlorine dioxide as a disinfectant
3. Installation of a UV system to compliment an upgraded ozone system
4. Installation of microfiltration
5. Installation of gravity granular media filtration (Trident)

**Alternative 1: Replacement of existing ozone generators with larger generators to inactivate cryptosporidium.**

The existing generators would have to be replaced with much larger generators to satisfy the cryptosporidium inactivation requirements of LT2. The required new, much larger generators and associated air components would cost significantly more than an ultraviolet light system would cost. In addition, the existing electrical infrastructure is not large enough to accommodate the new generators associated with the equipment, and the cost of electricity would also increase in direct relationship to the increase in the ozone production.

**Alternative 2: The use of chlorine dioxide as a disinfectant.**

Primarily due to cost and safety issues, chlorine dioxide is rarely used in drinking water treatment today. Chlorine dioxide forms chlorite, which has a maximum contaminant level of 1 mg/L. Chlorine dioxide is not considered to be a viable option, and was not evaluated in detail.

**Alternative 3: Installation of a UV system to compliment an upgraded ozone system.**

UV disinfection has been widely used for many years in Europe in drinking water applications. UV has recently been gaining widespread acceptance in the United States. UV offers a cost effective, secondary barrier of protection to safeguard drinking water against virtually all microorganisms treated by chlorine, as well as inactivation of protozoa (cryptosporidium) that are resistant to chlorine. UV is able to provide up to 4 log inactivation of cryptosporidium oocytes in drinking water applications, which are extremely resistant to chlorine and most other disinfectants. UV does not create disinfection byproducts, as no chemicals are used. The size of the structure needed to house this system is approximately 500 square feet.

**Alternative 4: Installation of a microfiltration plant.**

Microfilters are membranes that were specifically developed for the potable water treatment market. Microfilters are considered to be an absolute physical barrier to the passage of pathogens, sediment and other particulates, and are favored by regulatory agencies for this reason. High quality water can be produced without any chemical pretreatment, even with low quality source water. The structure needed to house this system is approximately 3,500 square feet.

**Alternative 5: Installation of Gravity Granular media filtration plant (Trident System).**

Trident systems have the advantage over microfilters in most categories for treating low turbidity water except for the physical barrier advantage of microfilters. They are best suited for treating raw water with turbidities below 30 NTU (Lake Tahoe water is rarely above 3 NTUs). They cost less to purchase, less to operate, and are much simpler to operate. The structure needed to house this system is approximately 3,248 square feet.

**Preferred Alternative: Installation of a UV system to compliment an upgraded ozone system.**

**C. Economics of Various Alternatives.**

The preferred alternative, a UV system with an upgraded ozone system, is the most economic alternative to construct and to operate over its life cycle. Ozone alone and chlorine dioxide were both found to be not viable. Viable alternatives for meeting the LT2 standards

include the addition of a UV system to the existing system, a microfiltration system or the Trident gravity filtration system. Edgewood proposes to install a UV with ozone system. In comparison to the two filtration systems, the UV system will require a structure that is 1/7 the size, requires at least 75% less energy to operate, and has a life cycle cost that is at least 2/3 less than the next best alternative.

The following table is a comparison of the economics of the various alternatives.

**Life Cycle Costs of Treatment Alternatives**

<b>Treatment Process</b>	<b>Project Cost \$</b>	<b>Annual O&amp;M Cost x 25</b>	<b>25 Year Life Cycle Cost \$</b>
UV	926,700	357,500	1,284,200
UV plus Ozone	1,426,700	747,500	2,173,500
Microfiltration	4,969,700	3,055,000	8,024,700
Trident Gravity Filtration	3,733,500	1,720,000	5,453,500
Trident Gravity Filtration plus UV	4,073,500	2,077,500	6,151,000

**XI. EXPLANATION OF HOW THE LOCATION OF THE PROPOSED FACILITY CONFORMS TO APPLICABLE STATE AND LOCAL LAWS AND REGULATIONS.**

The location of the proposed facility has been approved by the TRPA, the agency with primary jurisdiction, and has been found to conform to its relevant rules and regulations.

**A. List of All Permits, Licenses and Approvals Required by Federal, State and Local Statutes, Regulations and Ordinances.**

<b>Agency/Type of Permit</b>	<b>Date of Application</b>	<b>Date of Approval</b>
Tahoe Regional Planning Agency Public Service Application	June 17, 2013	August 12, 2013
Tahoe Douglas Fire District Plans Examination Application	September 12, 2013	TBD
Douglas County Community Development Department Building Permit	TBD	TBD
State of Nevada Bureau of State Drinking Water	September 11, 2013	TBD

Copies of all permits, licenses and approvals obtained by Edgewood, "Obtained Permits," are by this reference incorporated herein and attached hereto as Exhibit J.

**B. List of All Permits, Licenses and Approvals Applicant Is in the Process of Obtaining to Commence Construction of the Proposed Facility and Estimated Timeline for Obtaining These Permits, Licenses and Approvals.**

Applicant is in the process of obtaining the following permits and approvals:

Public Utilities Commission of Nevada (PUCN) Utility Environmental Protection Act permit for construction of a treated water pipeline.

It is expected that the above permit and approval will be obtained by April 1, 2014 in advance of the construction season in the Lake Tahoe Basin. Applicant has submitted this application for Utility Environmental Protection Act Permit.

**XII. EXPLANATION OF HOW THE PROPOSED FACILITY WILL SERVE THE PUBLIC INTEREST.**

**A. The Economic Benefits That the Proposed Facility Will Bring to Edgewood and Nevada.**

The proposed facility will allow Edgewood to continue to meet all Federal requirements for safe drinking water. Safe drinking water is essential to the Stateline, Lake Tahoe, Nevada tourist economy.

**B. The Nature of the Probable Effect on the Environment in This State if the Proposed Facility Is Constructed.**

As noted above, no adverse environmental effects are expected from the construction of this facility.

**C. The Nature of the Probable Effect on the Public Health, Safety and Welfare of the Residents of Nevada If the Proposed Facility Is Constructed.**

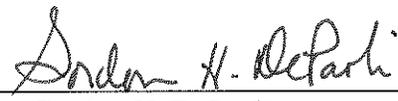
The public safety, health and welfare of the residents of Nevada will be enhanced if the proposed facility is constructed. The proposed facility will ensure that Edgewood will continue to meet Federal safe drinking water standards.

**WHEREFORE**, Edgewood requests that the Commission issue an order:

1. Granting a final UEPA permit authorizing Edgewood to construct an UltraViolet Light (UV) Treatment Facility and related facilities; and
2. For other such relief as may be appropriate.

DATED this 13<sup>th</sup> day of December, 2013.

Gordon H. DePaoli  
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6100 Neil Road, Suite 500  
Reno, Nevada 89511

By:   
Gordon H. DePaoli

**CERTIFICATE OF SERVICE**

I hereby certify that I am an employee of Woodburn and Wedge, and on December \_\_\_\_, 2013, I served each of the following persons with a copy of the Application of Edgewood Water Company for Permit Under Utility Environmental Protection Act for Construction of Ultraviolet Light (UV) Treatment Facility to Comply With Long Term 2 Enhanced Surface Water Treatment Rule (LT2) and Related Facilities by causing the same to be hand delivered as follows:

Public Utilities Commission of Nevada  
1150 E. William Street  
Carson City, Nevada 89701

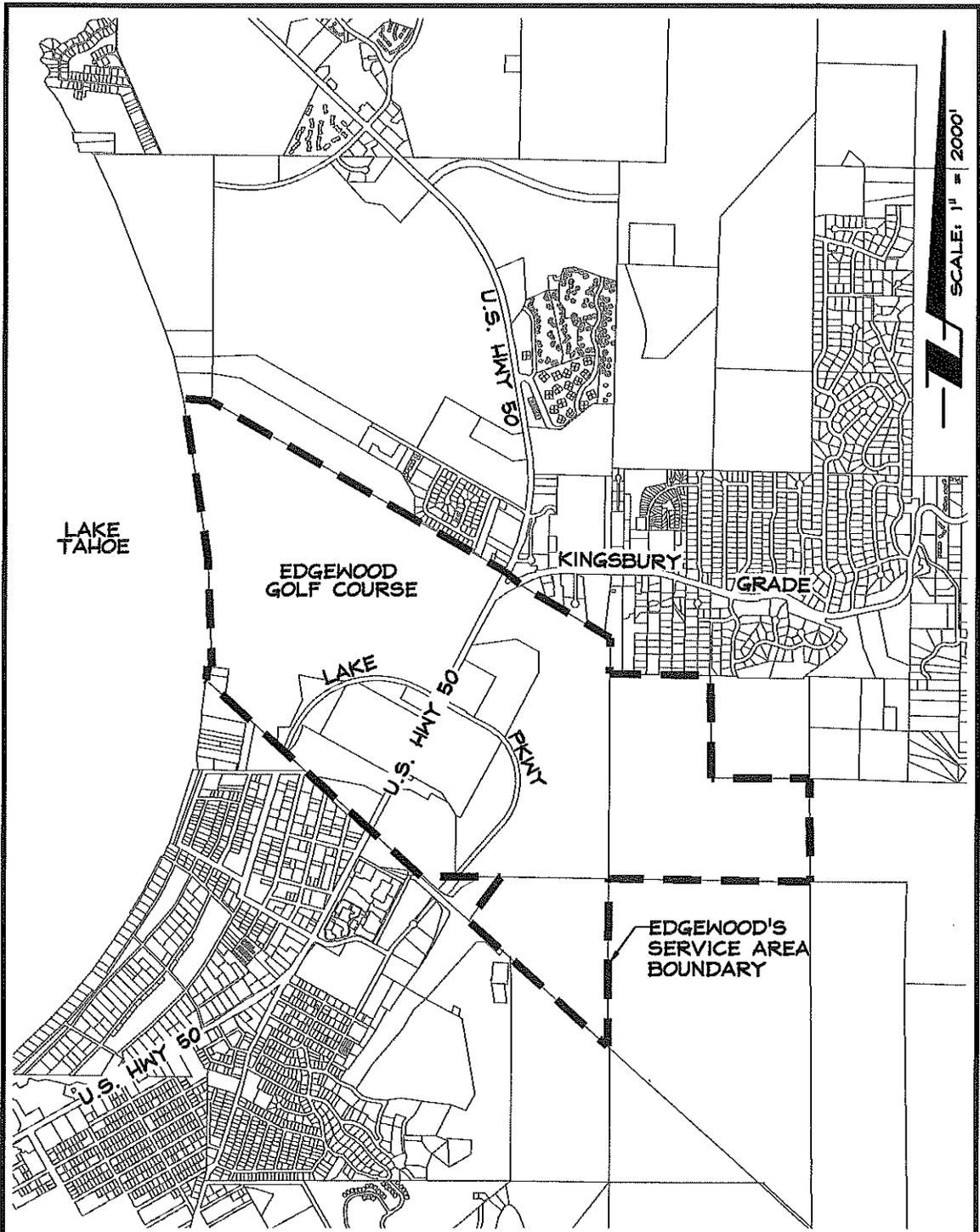
Douglas County Clerk  
1616 8th Street  
Minden, Nevada 89423

Dated this \_\_\_\_ day of December, 2013.

By: Holly Dewar  
Holly Dewar

# **EXHIBIT A**

Y:\Client Files\0344\0344-075\CAD\Engineering\Exhibits\0344-075\_EXH-A.dwg 12/6/2013 1:40:38 PM Jonathan W. Maxwell



**RO Anderson**  
 WWW.ROANDERSON.COM

NEVADA  
 1603 Esmeralda Ave  
 P.O. Box 2229  
 Minden, NV 89423  
 P 775.782.2322  
 F 775.782.7084

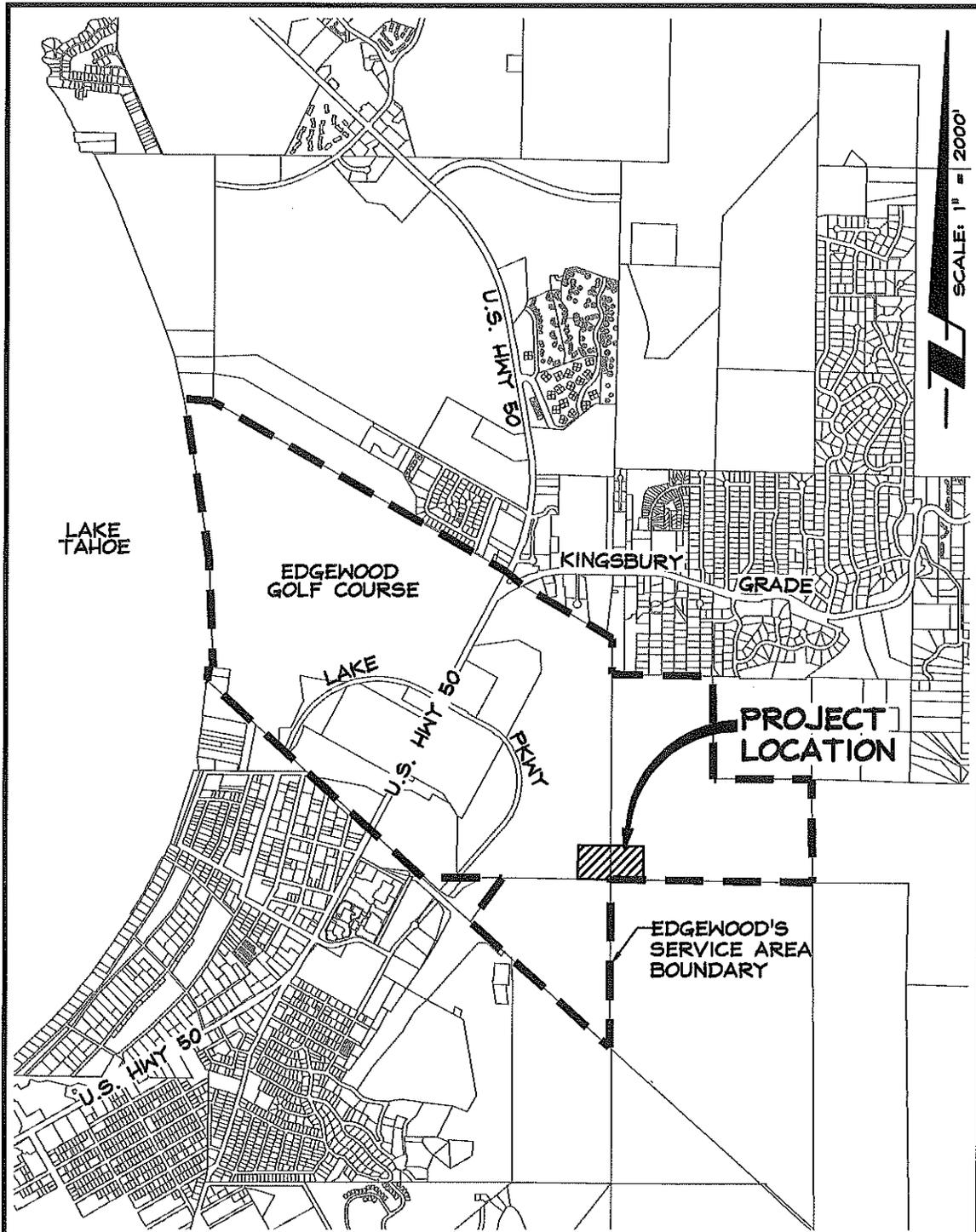
CALIFORNIA  
 595 Tahoe Keys Blvd  
 Suite A-2  
 South Lake Tahoe, CA 96150  
 P 530.600.1660  
 F 775.782.7084

**EXHIBIT A  
 EDGEWOOD WATER  
 COMPANY'S SERVICE  
 AREA**

12/05/13

# **EXHIBIT B**

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# RO Anderson UV TREATMENT FACILITY VICINITY MAP

NEVADA  
1603 Emeraldale Ave  
P.O. Box 2229  
Princeton, NV 89423  
p 775.782.2322  
f 775.782.7084

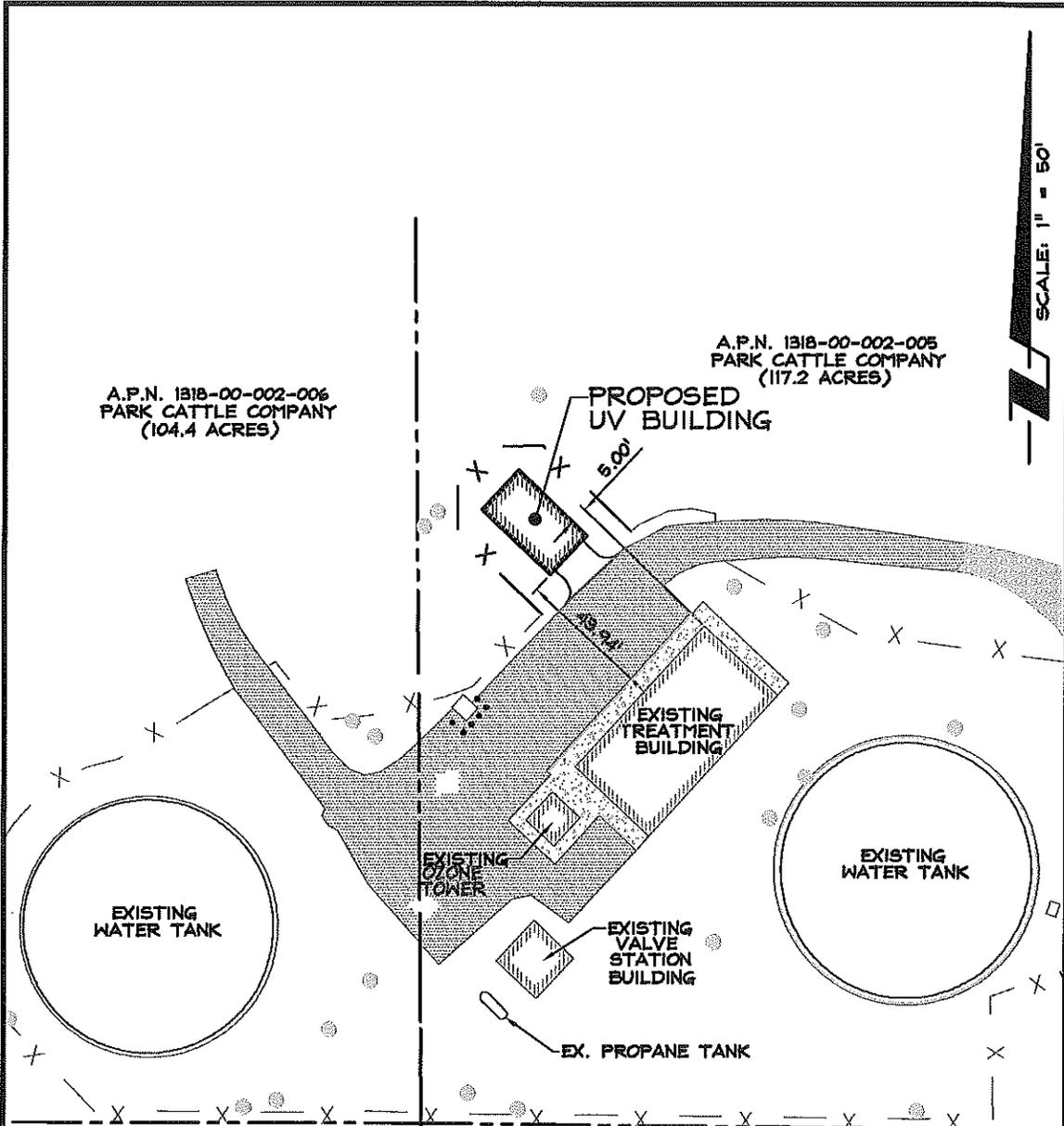
CALIFORNIA  
5915 Tahoe Keys Blvd  
Suite A-2  
South Lake Tahoe, CA 96150  
p 530.600.1660  
f 775.782.7084

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12/05/13

# **EXHIBIT C**

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A.P.N. 1318-00-002-007  
STATE OF NEVADA

A.P.N. 1318-00-002-008  
STATE OF NEVADA

# EXHIBIT C

## R/O Anderson UV TREATMENT FACILITY SITE PLAN

NEVADA  
1603 Emeraldale Ave  
P.O. Box 2229  
Minden, NV 89423  
p 775.782.2322  
f 775.782.7084

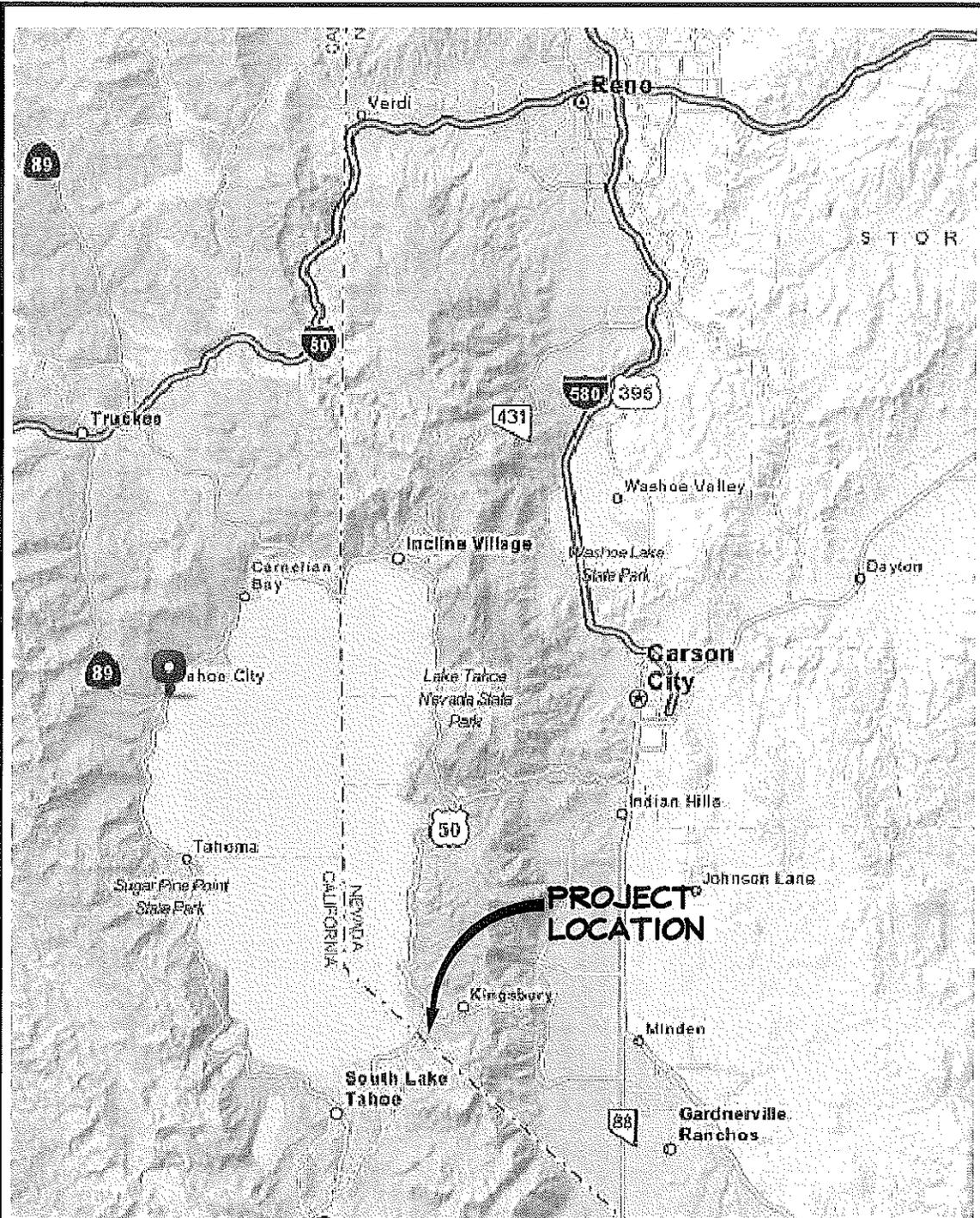
CALIFORNIA  
595 Tahoe Keys Blvd  
Suite A-2  
South Lake Tahoe, CA 96150  
p 530.600.1660  
f 775.782.7084

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12/05/13

# **EXHIBIT D**

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# R/O Anderson UV TREATMENT FACILITY REGIONAL MAP

NEVADA  
1603 Esmeralda Ave  
P.O. Box 2229  
Minden, NV 89423  
p 775.782.2322  
f 775.782.7084

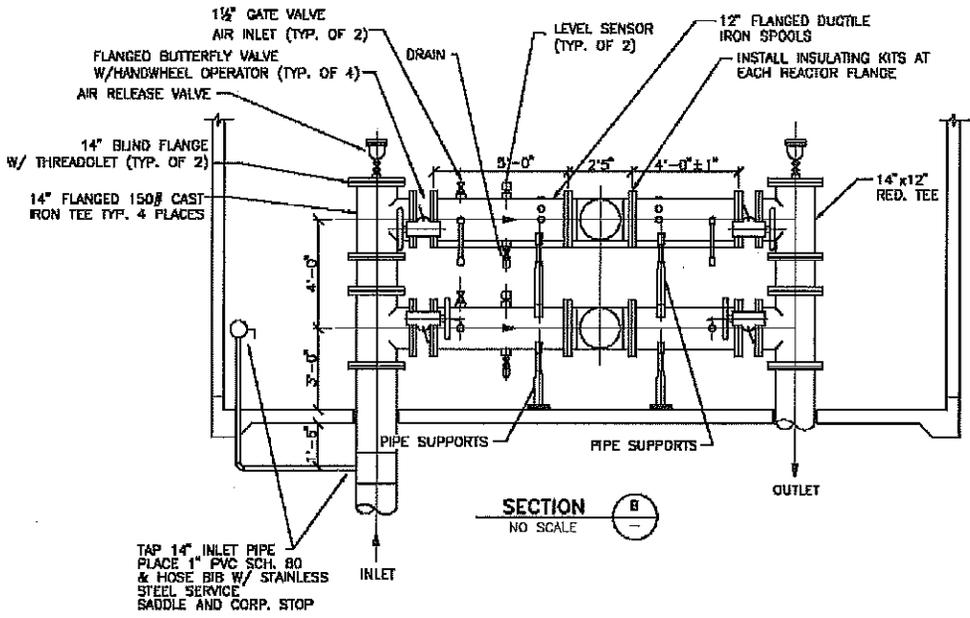
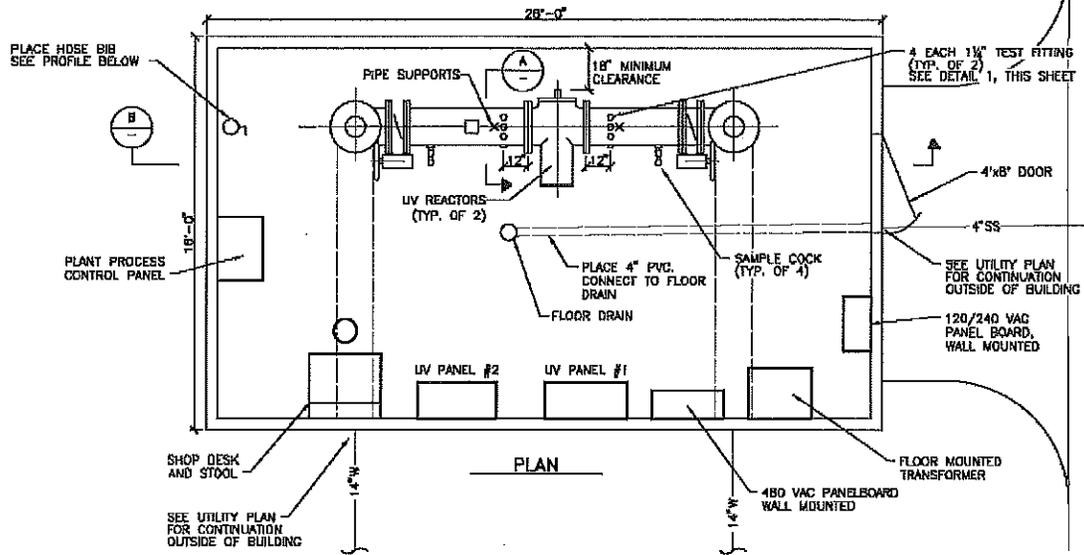
CALIFORNIA  
595 Tahoe Keys Blvd  
Suite A-2  
South Lake Tahoe, CA 96150  
p 530.600.1660  
f 775.782.7084

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# **EXHIBIT E**

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# EXHIBIT E RO Anderson UV TREATMENT FACILITY LAYOUT DIAGRAM

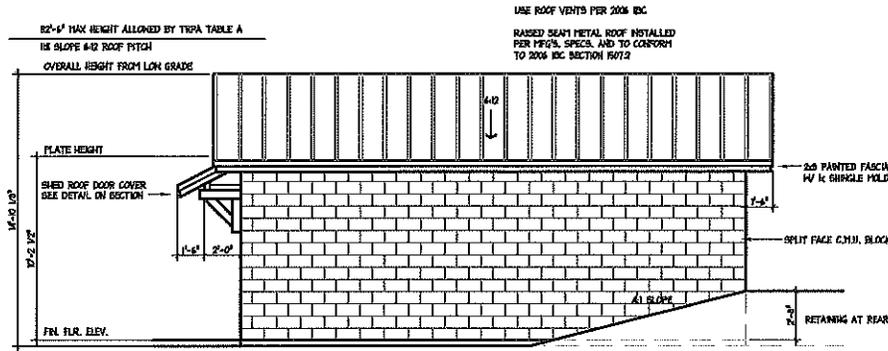
NEVADA  
1603 Emerald Ave  
P.O. Box 2229  
Mindeni, NV 89423  
p 775.782.2322  
f 775.782.7084

CALIFORNIA  
595 Tahoe Keys Blvd  
Suite A-2  
South Lake Tahoe, CA 96150  
p 530.600.1660  
f 775.782.7084

12/05/13

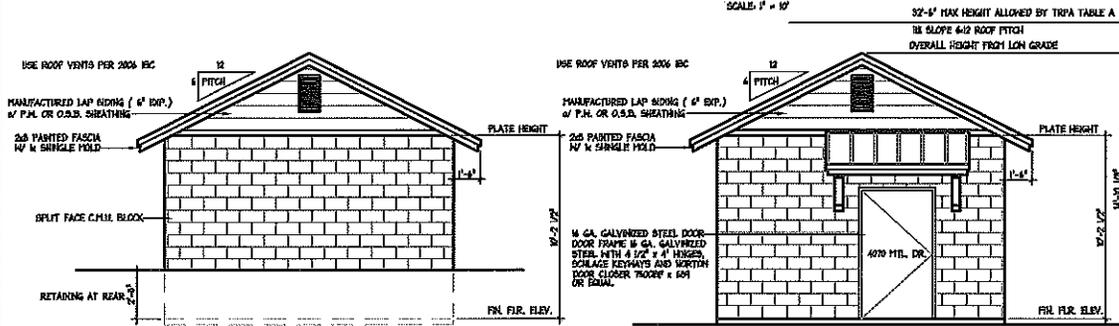
# **EXHIBIT F**

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**REAR ELEVATION**

SCALE: 1" = 10'

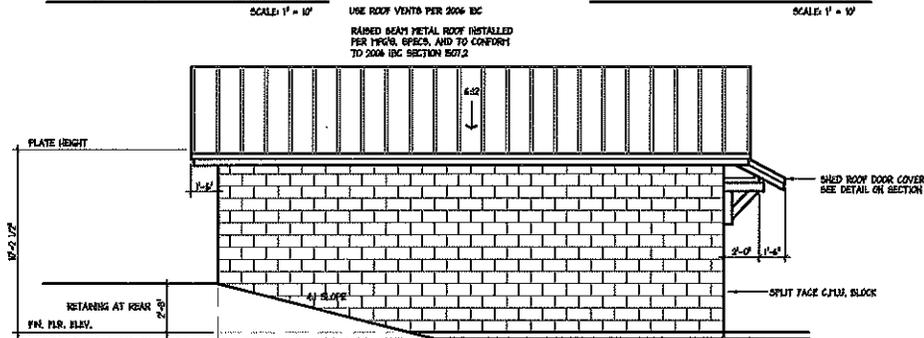


**LEFT SIDE ELEVATION**

SCALE: 1" = 10'

**RIGHT SIDE ELEVATION**

SCALE: 1" = 10'



**FRONT ELEVATION**

SCALE: 1" = 10'

# EXHIBIT F

## R/O Anderson UV TREATMENT FACILITY STRUCTURE

NEVADA  
1603 Emeraldalva Ave  
P.O. Box 2229  
Minden, NV 89423  
p 775.782.2322  
f 775.782.7084

CALIFORNIA  
595 Tahoe Keys Blvd  
Suite A-2  
South Lake Tahoe, CA 96150  
p 530.600.1660  
f 775.782.7084

WWW.ROANDERSON.COM

12/05/13

# **EXHIBIT G**



OFFICE  
128 Market St.  
Stateline, NV  
Phone: (775) 588-4547  
Fax: (775) 588-4527

MAIL  
PO Box 5310  
Stateline, NV 89449-5310  
trpa@trpa.org  
www.trpa.org

HOURS  
Mon. Wed. Thurs. Fri  
9 am-12 pm/1 pm-4 pm  
Closed Tuesday  
New Applications Until 3:00 pm

## PROJECT REVIEW APPLICATION FORM

NEW APPLICATION     PLAN REVISION     NEW DEVELOPMENT     REBUILD, ADDITION, REMODEL

- |  |  |
|--|--|
| <input type="checkbox"/> Banking/Verification of Coverage and Uses       | <input type="checkbox"/> Tourist Accommodation               |
| <input type="checkbox"/> Single Family Residential Addition/Modification | <input type="checkbox"/> Linear Public Service Facility      |
| <input type="checkbox"/> New Single Family Residential                   | <input type="checkbox"/> Public Service Facility             |
| <input type="checkbox"/> Multi-Family Residential                        | <input type="checkbox"/> Allocation Assignment               |
| <input type="checkbox"/> Commercial                                      | <input type="checkbox"/> Lot Line Adjustment/ROW Abandonment |
| <input type="checkbox"/> Sign  | <input type="checkbox"/> Subdivision of Existing Structures  |
| <input type="checkbox"/> Grading   | <input type="checkbox"/> Recreation                          |
| <input type="checkbox"/> Transfer of Bankable Rights                     | <input type="checkbox"/> Resources                           |
| <input type="checkbox"/> Shorezone and/or Lakezone Project               | <input type="checkbox"/> Buoy Project                        |

Applicant Edgewood Water Company

Mailing Address 30 U.S. Highway 50 City Stateline State NV  
 Zip Code 89449 Email \_\_\_\_\_ Phone 775.588.4111 FAX \_\_\_\_\_

Representative or Agent Robert O. Anderson, P.E., CFM, WRS  
R.O. Anderson Engineering, Inc.  Same as Applicant

Mailing Address P.O. Box 2229 City Minden State NV  
 Zip Code 89423 Email randerson@ROAnderson.com Phone 775.782.2322 FAX 775.782.7084

Owner \_\_\_\_\_  Same as Applicant

Mailing Address \_\_\_\_\_ City \_\_\_\_\_ State \_\_\_\_\_  
 Zip Code \_\_\_\_\_ Email \_\_\_\_\_ Phone \_\_\_\_\_ FAX \_\_\_\_\_

Project Location/Assessor's Parcel Number (APN) 1318-00-002-005 and 006

Street Address 100 U.S. Highway 50, Stateline, NV Subdivision \_\_\_\_\_ Lot # \_\_\_\_\_  
 County Douglas Previous APN \_\_\_\_\_  
 (if changed by county assessor since 1987)

Brief Description of Project: Construct new UV water treatment facility. Includes a new 480 square foot structure (18' height), 103 square feet of concrete and trenching.

Plan Area Statement/Community Plan: PAS 080, Kingsbury Drainage in proposed South Shore Area Plan. (view maps)

Bicycle and Pedestrian Facilities: Are there existing or proposed public bicycle or pedestrian path(s) within 75 feet of the project area (bike paths, lanes, routes, or sidewalks)?  Yes  No (view maps)

Property Restrictions/Easements (List any deed restrictions, easements or other restrictions):  None  
 \_\_\_\_\_ (initial here): I hereby declare under penalty of perjury that all property restrictions and easements have been fully disclosed.

Prior Approvals (List any prior CTRPA/TRPA approvals/permits for the subject property):  None (go to file search)

Description: <u>LCV</u>	TRPA File No: <u>20061875STD</u>	Date: <u>11/08/2006</u>
<u>Grading Permit</u>	<u>20051343STD</u>	<u>09/28/2005</u>
Description: <u>Pipeline/Power Trans Line</u>	TRPA File No: <u>20041146STD</u>	Date: <u>10/06/2004</u>
<u>Ozone Treatment Facility</u>	<u>19950080</u>	<u>02/17/1995</u>

**DECLARATION:**

I hereby declare under penalty of perjury that this application and all information submitted as part of this application is true and accurate to the best of my knowledge. I am the owner of the subject property, or have been authorized in writing by the owner(s) of the subject property to represent this application, and I have obtained authorization to submit this application from any other necessary parties holding an interest in the subject property. I understand it is my obligation to obtain such authorization, and I further understand that TRPA accepts no responsibility for informing these parties or obtaining their authorization. I understand that should any information or representation submitted in connection with this application be inaccurate, erroneous, or incomplete, TRPA may rescind any approval or take other appropriate action. I hereby authorize TRPA to access the property for the purpose of site visits. I understand that additional information may be required by TRPA to review this project. I understand that I am responsible for all fees set forth in the TRPA Filing Fee Schedule (including cost recovery, filing fees and deposit accounts) associated with this application. (Edited July 2010)

Signature: (Original signature required.)

*Robert O. Anderson, ASCE*  
Person Preparing Application

At Douglas County

Date: 6.17.13

**AUTHORIZATION FOR REPRESENTATION (Original signatures required):**

The following person(s) own the subject property (Assessor's Parcel Number(s) 1318-00-002-005 and 1318-00-002-006) or have sufficient interest therein to make application to TRPA:

Print Owner(s) Name(s):  
Edgewood Water Company

I/We authorize Robert O. Anderson, P.E., CFM, WRS to act as my/our representative in connection with this application to TRPA for the subject property and agree to be bound by said representative. I understand that additional information may be required by TRPA beyond that submitted by my representative to review this project. Any cancellation of this authorization shall not be effective until receipt of written notification of same by TRPA. I also understand that should any information or representation submitted in connection with this application be incorrect or untrue, TRPA may rescind any approval or take other appropriate action. I further accept that if this project is approved, I, as the permittee, will be held responsible for any and all permit conditions.

Owner(s) Signature(s): (Original signature required.)

X \_\_\_\_\_ Date: \_\_\_\_\_  
\_\_\_\_\_ Date: \_\_\_\_\_

**FOR OFFICE USE ONLY**

Date Received: \_\_\_\_\_ By: \_\_\_\_\_

Initial Filing Fee: \$ \_\_\_\_\_ Receipt No: \_\_\_\_\_  
Per the TRPA Filing Fee Schedule, additional costs/fees may apply

Comments: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

## ***PUBLIC SERVICE APPLICATION CHECKLIST***

APPLICATIONS LACKING ANY OF THE FOLLOWING ITEMS WILL NOT BE ACCEPTED. TRPA OR YOUR LOCAL JURISDICTION MAY REQUIRE ADDITIONAL INFORMATION, ABOVE AND BEYOND THE CHECKLIST ITEMS, TO REVIEW THIS APPLICATION.

Each item and number corresponds to TRPA's Master Checklist (784 k download) available at our offices or online. Refer to the *Master Checklist* for more information on any item.

PROJECT NAME: Edgewood Water Company UV Treatment Facility (LT-2)

CURRENT ASSESSOR'S PARCEL NUMBER (APN): 1318-00-002-005 and 006

PREVIOUS ASSESSOR'S PARCEL NUMBER (APN): \_\_\_\_\_

Applicant	TRPA	
_____	_____	1. Fire protection agency pre-approval. This requirement does not apply to some areas as indicated on the fire district maps available at TRPA offices and at <a href="http://www.trpa.org">www.trpa.org</a> . Applicants must contact the reviewing fire agency for their individual requirements regarding plan submittal. Final plans (plans that have been reviewed and approved by TRPA or our partner agencies) are also subject to final approval from local fire protection district or department. Check with your local fire protection agency for their requirements.
_____	_____	2. Completed application form with <u>original</u> signed authorization and checklist.
_____	_____	3. Application Fee: Please refer to the <u>TRPA Filing Fee Schedule</u> available at TRPA offices or online. Use the schedule to make the calculations on the attached Filing Fee Worksheet and submit the complete fee with this application.
<u>X</u>	_____	4. Proof of land capability verification.
<u>X</u>	_____	5. Scenic Impact Assessment Form.
<u>X</u>	_____	7. Site Plan: Minimum 18" x 24" on blackline or blue-line print paper showing the following:
	<u>X</u>	_____ a. All property lines and buildings setbacks.
	<u>X</u>	_____ b. Map scale and north arrow.
	<u>X</u>	_____ c. Assessor's Parcel Number (APN) and property address.
	<u>X</u>	_____ d. Property owner's name.
	<u>X</u>	_____ e. Parcel size in square feet.
	<u>X</u>	_____ f. Best Management Practices (BMPs), both temporary and permanent.
	<u>X</u>	_____ i. Topographic contour lines at 2' intervals.
	<u>N/A</u>	_____ j. Verified backshore and Stream Environment Zone (SEZ) boundaries, including setbacks (if applicable).
	<u>N/A</u>	_____ k. High and low water lines (if applicable).
	<u>N/A</u>	_____ l. Verified land capability district boundaries (if more than one land capability district).
	<u>X</u>	_____ m. Trees greater than 6" in diameter, trees to be removed indicated; any rock outcroppings.

- X   \_\_\_\_\_ n. Location and dimensions of existing and proposed structures.
- N/A   \_\_\_\_\_ o. Driveway and driveway slope.
- N/A   \_\_\_\_\_ p. Edge of pavement at street(s).
- X   \_\_\_\_\_ ri. Allowable land coverage by land capability district.
- X   \_\_\_\_\_ r.ii. Existing land coverage calculations by land capability district including a breakdown by type of coverage (i.e., buildings, decks, walks, etc.).
- X   \_\_\_\_\_ r.iii. Proposed land coverage calculations by land capability district including a breakdown by type of coverage (i.e., buildings, decks, walks, etc.).
- X   \_\_\_\_\_ r.iv. Identification of added and/or removed land coverage.
- N/A   \_\_\_\_\_ s. Parking space calculations.
- N/A   \_\_\_\_\_ t. Location of signage.
- N/A   \_\_\_\_\_ u. Slope calculation across the building site.
- N/A   \_\_\_\_\_ z.i. Location of existing and proposed public bicycle and pedestrian facilities (paths, lanes, routes, sidewalks, and bicycle parking areas).
  
- X   \_\_\_\_\_ 8. Preliminary Building Elevations (existing and proposed) of all sides of the building(s) showing:
  - \_\_\_\_\_ a. Finished floor elevations (with respect to contour elevations shown on the site plan).
  - X   \_\_\_\_\_ b. Elevation of the highest roof ridge and lowest elevation of foundation wall at natural grade.
  - X   \_\_\_\_\_ c. Roof pitch of each roof plane.
  - \_\_\_\_\_ d. Allowed and proposed height calculations.
  - X   \_\_\_\_\_ e. Drawing scale and view aspect.
  - N/A   \_\_\_\_\_ f. Existing and proposed building signs.
  
- X   \_\_\_\_\_ 9. Preliminary Floor Plans (existing and proposed) showing:
  - X   \_\_\_\_\_ a. Scaled dimensions.
  - N/A   \_\_\_\_\_ b. TRPA-approved wood or gas space and/or water heaters (if applicable).
  - X   \_\_\_\_\_ c. All exterior entrances and exits.
  
- \_\_\_\_\_ 11. Grading Plan (proposed cut and fill).
- N/A   \_\_\_\_\_ 12. For projects requiring Hearings Officer or Governing Board review:
  - \_\_\_\_\_ a. A list of names, addresses, and Assessor's Parcel Numbers of property owners within 300 feet of project area, addressed envelopes to same (with no return addresses), and postage (stamped not metered).
  - \_\_\_\_\_ b. 8 ½" x11" reductions of site plan, building elevations, floor plans.
  
- X   \_\_\_\_\_ 16. Initial Environmental Checklist.
- N/A   \_\_\_\_\_ 17. Change in Operation Form and identification of new vehicle trips associated with the project.

N/A

\_\_\_\_\_ 19. Results of Soils/Hydrologic Application (if excavating beyond 5 feet in depth).

\_\_\_\_\_

\_\_\_\_\_ 37. Applicable Findings Explanation.

X

\_\_\_\_\_ 48. Project Description. See IEC and Findings

**FILING FEE CALCULATION WORKSHEET**

Please calculate your filing fee in the worktable at the bottom of this page. Include full payment with your complete application.

Fees and multipliers for permit applications are re-evaluated on a regular basis to ensure TRPA's review costs are recovered and that applicants are not unfairly charged. Please refer to the current [TRPA Filing Fee Schedule](#) (275 kb pdf) available at TRPA offices or online at [www.trpa.org](http://www.trpa.org).

FEE MULTIPLIERS	
Level of Review See TRPA Code of Ordinances Chapter 2	Multipliers
Staff Level Review	1.00
Hearings Officer Review	1.40
Governing Board Review	1.80
Plan Revisions	
Minor—A non-substantive change to a permitted project. A project that will not cause changes to any TRPA permit conditions, does not require new field review by TRPA staff, does not require a public hearing, and does not involve any modifications to building size, shape, land coverage, location, or scenic rating score.	0.40
Major—A substantial change that does not significantly exceed the original scope of the project. Revisions that significantly exceed the original scope of a project, or which require a public hearing, must be treated as new or modified projects, as the case may be.	0.70
Special Planning Areas	
For projects located in an adopted community plan area, or subject to an adopted redevelopment, specific, or master plan. A map of <a href="#">Community Plan Areas</a> is available at our offices or online at <a href="http://www.trpa.org">www.trpa.org</a> .	1.25

Sample Calculation

(\$ 2,000.00	x	1.4	x	0.70	x	1.25	) + \$	400	+ \$	88	= \$	2,938.00
Base Fee		Level of Review Multiplier		Plan Revisions Multiplier		Special Planning Area Multiplier		Shoreland Scenic Review		I.T. Surcharge		Application Fee due on submittal

Applicant Calculation

Using the base fee from the [TRPA Filing Fee Schedule](#) (275 kb pdf) and the fee multiplier table above, calculate your filing fee total on the worktable below. You must fill all blanks with a number, or "N/A" if the multiplier or surcharge does not apply to your application.

(\$ 2,800.00	x	1.00	x	-	x	-	) + \$	-	+ \$	88.00	= \$	2,888.00
Base Fee		Level of Review Multiplier		Plan Revisions Multiplier		Special Planning Area Multiplier		Shoreland Scenic Review		I.T. Surcharge		Application Fee due on submittal

TRPA SCENIC IMPACT ASSESSMENT FORM

Assessor's Parcel Number (APN) 1318-00-002-005 and 006 County Douglas

Previous APN (if changed by county assessor since 1987)

Owner Edgewood Water Company

Mailing Address 30 U.S. Highway 50 City Stateline State NV

Zip Code 89449 Email Phone 775.588.4111 FAX

Representative or Agent Robert O. Anderson, P.E., CFM, WRS, R.O. Anderson Engineering, Inc.

Mailing Address P.O. Box 2229 City Minden State NV

Zip Code 89423 Email randerson@ROAnderson.com Phone 775.782.2322 FAX 775.782.7084

I have reviewed the TRPA Scenic Corridors, Recreation Areas and Bikeways (listed on the following page) and have determined that the above referenced parcel(s) is (check one):

X not visible.
visible from

If visible, provide the following Scenic Resource Inventory Information:

Refer to the Scenic Resources Inventory available at TRPA offices, or online at www.trpa.org. Information and maps for these items are available on the Scenic Resources page of the TRPA website and at the TRPA main office. List all unit numbers the parcel(s) is located in. Then list any scenic points from which the parcel(s) can be seen.

Roadway Unit No. Status: Attainment Non-attainment

Roadway Scenic Resource Point No.

Shoreline Unit No. Status: Attainment Non-attainment

Shoreline Scenic Resource No.

Is this a Shorezone Project? Yes No

Shoreline Character Type

Current and/or Prior Shorezone Project(s) on site? Yes No TRPA File #

If yes, and scenic mitigation measures were required, please clearly identify location(s) of any approved mitigation measures on lakefront facade/landscape elevation drawings.

If property boundaries are not clearly defined, all property corners must be located and staked before the site visit. Use one inch by two inch boards about 3 feet long, driven solidly into the ground at the property corners. In cases where there is heavy brush or tree cover, surveyors tape (brightly colored plastic ribbon) shall be tied to the stakes. The address must be posted on the property.

Print Name: ROBERT O. ANDERSON Date: 6.17.13

Signature of Property Owner or Authorized Agent: [Handwritten Signature]

TRPA STAFF WILL DETERMINE IF ADDITIONAL SCENIC ANALYSIS IS NEEDED BASED ON REVIEW OF THE FOLLOWING CHECKLIST ITEMS AND STAFF FIELD VISITS TO THE SITE.

(continued on next page)

## ***SCENIC IMPACT CHECKLIST***

If either the parcel or proposed project is visible from a scenic corridor, recreation area or bikeway, the following information must be submitted to TRPA along with the project application. Refer to the TRPA *Master Checklist* for an explanation of each item. Following this checklist closely can avoid costly delays in reviewing your project.

- \_\_\_\_\_ 5a. Photographs from scenic corridor, recreation area or bikeway location to project area, clearly showing all existing development within the project area.
  
- \_\_\_\_\_ 5b. Color and material samples for proposed structures. Samples can be no larger than 8.5" x 11". Photographs of sample colors will not be accepted. However, to assist TRPA in the review of your project, you may also submit close-up photographs of outer walls with the applicable color sample from a Munsell® Color Chart held against the wall. A chart of TRPA-approved Munsell® colors is available at TRPA offices.
  
- \_\_\_\_\_ 5c. Preliminary landscape plan (can be included on the submitted site plan).
  
- \_\_\_\_\_ 5d. Dimensions of structure(s). Scale drawings showing the exact dimensions of all walls, roofs and structural façades visible from scenic areas or points.
  
- \_\_\_\_\_ 5e. Written discussion of proposed scenic mitigation measures.
  
- \_\_\_\_\_ 5f. For Shoreland and Shorezone Projects, TRPA-verified contrast rating score resulting from the Baseline Scenic Assessment. See Baseline Scenic Assessment Application for more information.

## ***SCENIC CORRIDORS, RECREATION AREAS & BIKEWAYS***

### **Scenic Corridors**

Lake Tahoe	State Route 28	U.S. Highway 50
State Route 89	State Route 207	State Route 267
State Route 431	Pioneer Trail	

### **Scenic Recreation Areas**

Nevada Beach	Zephyr Cove	Cave Rock
Sand Harbor	Hidden Beach	Diamond Peak
Incline Beach	Burnt Cedar Beach	Kings Beach State Park
Agatam Beach	Patton Beach	Moondunes Beach
Lake Forest Beach	Lake Forest Campground/Boat Ramp	Tahoe State Recreation Area
Tahoe City Commons Beach	William Kent Beach & Campground	Granlibakken Ski Resort
Kaspian Recreation Area	Ski Homewood/Tahoe Ski Bowl	Meeks Bay Resort
Sugar Pine Point State Park	Meeks Bay Campground	D.L. Bliss State Park
Vikingsholm, Emerald Bay Picnic Area	Eagle Falls Picnic Area	Eagle Point Campground
Fallen Leaf Lake Campground	Baldwin Beach	Taylor Creek
Kiva Picnic Area/Tallac Historic Site	Camp Richardson	Pope Beach
El Dorado Beach and Campground	Heavenly Valley Ski Resort	Reagan Beach

### **Bikeway Segments**

Tahoe City to River Ranch	Tahoe City to Dollar Point	Tahoe Tavern
Sunnyside to Timberland	Timberland to Tahoe Pines	Tahoe Pines to Tahoma
City of SLT Recreation Area	Al Tahoe Boulevard	Tahoe Valley Route
Tahoe Valley to SLT City Limits	City of SLT to Tallac Creek	

**TO DETERMINE THE THRESHOLD STATUS OF AN AREA, REFER TO THE SCENIC RESOURCES INVENTORY AVAILABLE AT TRPA OFFICES, OR ONLINE AT [www.trpa.org](http://www.trpa.org).**

# **EXHIBIT H**

**NOTICE OF APPLICATION FOR PERMIT  
UNDER UTILITY ENVIRONMENTAL PROTECTION ACT  
FOR CONSTRUCTION OF ULTRAVIOLET LIGHT (UV) TREATMENT  
FACILITY AND RELATED FACILITIES**

PLEASE TAKE NOTICE THAT EDGEWOOD WATER COMPANY (“EDGEWOOD”) will file an Application with the Public Utilities Commission of Nevada (“Commission”) for a Permit Under the Utility Environmental Protection Act for construction of an Ultraviolet Light (UV) Treatment Facility and Related Facilities at its facilities located in Douglas County, Stateline, Nevada. Edgewood provides water service at Stateline, Lake Tahoe, Nevada.

The new facilities are needed to comply with Federal safe drinking water requirements, specifically the Long Term 2 Enhanced Surface Water Treatment Rule.

**EXHIBIT H**

# **EXHIBIT I**

# **EXHIBIT J**



August 12, 2013

Mail  
PO Box 5310  
Stateline, NV 89449-5310

Location  
128 Market Street  
Stateline, NV 89449

Contact  
Phone: 775-588-4547  
Fax: 775-588-4527  
www.trpa.org

Robert O. Anderson, P.E., CFM, WRS  
R.O. Anderson Engineering, Inc.  
P.O. Box 2229  
Minden, NV 89423

RECEIVED  
AUG 13 2013

BY: .....

**NEW UV WATER TREATMENT FACILITY, 100 U.S. HIGHWAY 50, STATELINE, DOUGLAS COUNTY, NEVADA, ASSESSOR'S PARCEL NUMBER (APN) 1318-00-002-005, TRPA FILE NUMBER ERSP2013-0555**

Dear Mr. Anderson:

Enclosed please find the Tahoe Regional Planning Agency (TRPA) permit and attachments for the project referenced above. If you accept and agree to comply with the Permit conditions as stated, please make a copy of the permit, sign the "Permittee's Acceptance" block on the first page the Permit, and return the signed copy to TRPA within twenty-one (21) calendar days of issuance. Should the Permittee fail to return the signed permit within twenty-one (21) calendar days of issuance, the permit will be subject to nullification. Please note that signing the permit does not of itself constitute acknowledgement of the permit, but rather acceptance of the conditions of the permit.

TRPA will acknowledge the original permit only after all standard and special conditions of approval have been satisfied. Please schedule an appointment with me to finalize your project. Due to time demands, TRPA cannot accept drop-in or unannounced arrivals to finalize plans

Pursuant to Rule 11.2 of the TRPA Rules of Procedure, this permit may be appealed within twenty-one (21) days of the date of this correspondence, (September 2, 2013).

Thank you very much for your patience in this matter. Please feel free to call me if you have any questions regarding this letter or your permit in general.

Sincerely,

David L. Landry, AICP, LEED Green Associate  
Senior Planner  
Planning Department

Enclosures

cc: Edgewood Water Company, 30 U.S. Highway 50, Stateline, NV 89449

**EXHIBIT J**



**TAHOE  
REGIONAL  
PLANNING  
AGENCY**

Mail  
PO Box 5310  
Stateline, NV 89449-5310

**CONDITIONAL  
-PERMIT-**

Location  
128 Market Street  
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PROJECT DESCRIPTION:           New UV Water Treatment Facility           APN 1318-00-002-005  
PERMITTEE:                       Edgewood Water Company                   FILE # ERSP2013-0555  
COUNTY/LOCATION:               Douglas County, 100 U.S. Highway 50

Having made the findings required by Agency ordinances and rules, TRPA Staff approved the project on **August 12, 2013**, subject to the standard conditions of approval attached hereto (Attachment S) and the special conditions found in this permit.

This permit shall expire on **August 12, 2016**, without further notice unless the construction has commenced prior to this date and diligently pursued thereafter. Commencement of construction consists of pouring concrete for a foundation and does not include grading, installation of utilities or landscaping. Diligent pursuit is defined as completion of the project within the approved construction schedule. The expiration date shall not be extended unless the project is determined by TRPA to be the subject of legal action which delayed or rendered impossible the diligent pursuit of the permit.

**NO CONSTRUCTION OR GRADING SHALL COMMENCE UNTIL:**

- (1) TRPA RECEIVES A COPY OF THIS PERMIT UPON WHICH THE PERMITTEE(S) HAS ACKNOWLEDGED RECEIPT OF THE PERMIT AND ACCEPTANCE OF THE CONTENTS OF THE PERMIT;
- (2) ALL PRE-CONSTRUCTION CONDITIONS OF APPROVAL ARE SATISFIED AS EVIDENCED BY TRPA'S ACKNOWLEDGEMENT OF THIS PERMIT;
- (3) THE PERMITTEE OBTAINS APPROPRIATE COUNTY/CITY PERMIT. TRPA'S ACKNOWLEDGEMENT MAY BE NECESSARY TO OBTAIN A COUNTY PERMIT. THE COUNTY/CITY PERMIT AND THE TRPA PERMIT ARE INDEPENDENT OF EACH OTHER AND MAY HAVE DIFFERENT EXPIRATION DATES AND RULES REGARDING EXTENSIONS; AND
- (4) A TRPA PRE-GRADING INSPECTION HAS BEEN CONDUCTED WITH THE PROPERTY OWNER AND/OR THE CONTRACTOR.

\_\_\_\_\_  
TRPA Executive Director/Designee

8/12/13  
\_\_\_\_\_  
Date

PERMITTEES' ACCEPTANCE: I have read the permit and the conditions of approval and understand and accept them. I also understand that I am responsible for compliance with all the conditions of the permit and am responsible for my agents' and employees' compliance with the permit conditions. I also understand that if the property is sold, I remain liable for the permit conditions until or unless the new owner acknowledges the transfer of the permit and notifies TRPA in writing of such acceptance. I also understand that certain mitigation fees associated with this permit are non-refundable once paid to TRPA. I understand that it is my sole responsibility to obtain any and all required approvals from any other state, local or federal agencies that may have jurisdiction over this project whether or not they are listed in this permit.

Signature of Permittee(s) \_\_\_\_\_ Date \_\_\_\_\_

(PERMIT CONTINUED ON NEXT PAGE)

APN 1318-00-002-005  
FILE NO. ERSP2013-0555

Security Posted (1): Amount \$ 5,000 Posted \_\_\_\_\_ Type \_\_\_\_\_ Receipt No. \_\_\_\_\_

Security Administrative Fee (2): Amount \$ \_\_\_\_\_ Paid \_\_\_\_\_ Receipt No. \_\_\_\_\_

Notes:

- (1) See Special Condition 3.C, below.
- (2) \$152 if a cash security is posted, or \$135 if a non-cash security is posted.

Required plans determined to be in conformance with approval: Date: \_\_\_\_\_

TRPA ACKNOWLEDGEMENT: The permittee has complied with all pre-construction conditions of approval as of this date and is eligible for a county building permit:

\_\_\_\_\_  
TRPA Executive Director/Designee

\_\_\_\_\_  
Date

***SPECIAL CONDITIONS***

1. This permit specifically authorizes the installation of a new ultraviolet disinfection (UV) water treatment facility and associated equipment at 100 U.S. Highway 50, Stateline Nevada. The work which will affect assessor parcels 1318-00-002-005 and 006 will consist of the construction of a new eighteen foot high, 16 foot by 30 foot (480 square feet) single story, C.M.U. block building a new 103 square foot Asphalt Concrete ramp leading to the existing paved driveway, and a new connecting trench for inlet and outlet pipes that will transport water between the existing ozone contact tank and the new UV facility. All trenching will be done to a maximum depth of 4.5 feet below ground surface (bgs). This authorization is contingent upon the permittee receiving proper jurisdictional authorization prior to acknowledgement of this permit. This project will result in an additional 552 square feet of new Class 4 land coverage, well below the maximum allowed for this project t area.
2. The standard conditions of approval listed in Attachment S shall apply to this permit.
3. Prior to final permit acknowledgement the following conditions of approval shall be satisfied.
  - A. The permittee shall revise the site plan to include:
    - (1) A note and graphic depiction of the location of all permanent BMPs downspouts and supporting sizing calculations for the new building and connecting driving ramp.

- (2) The location of all temporary BMPs and sediment control devices for any drop inlets, building construction areas, trench areas, access points, and staging areas.
  - (3) The removal of all references to straw bales and their replacement with core logs or an indication that the hay bales will be from a purveyor that certifies the hay bales as weed and invasive species free.
  - (4) Identification of construction equipment staging, material storage, and employee parking areas. These areas shall be restricted to paved surfaces and previously disturbed areas and shall be fitted with temporary BMPs, including construction limit fencing.
- B. Elevation drawings for the pump station building shall be revised to show the location of the 10 inch hazardous materials sign, call out for specific building materials and down spouts, rain gutters and/or other water conveyances.
  - C. The security required under Standard Condition I.2 of Attachment S shall be \$5000.00. Please see Attachment J, Security Procedures, for appropriate methods of posting the security and for calculation of the required security administration fee.
  - D. The permittee shall submit a projected construction completion schedule to TRPA prior to acknowledgment. Said schedule shall include completion dates for each item of construction and demonstrating completion of foundation and ground work by Oct 15<sup>th</sup> of each construction season.
  - E. The permittee shall submit a dewatering plan which specifically addresses how any waste or ground water from project activities or water removed from within the work area, as a result of trenching is routed to an approved, designated holding or disposal area to ensure that fine sediment and other contaminants are not discharged into lake. The plan should include methods for ensuring that water quality threshold standards per section 0.1.3 of the TRPA Code, are not exceeded.
  - F. The final construction drawings shall have notes indicating conformance to the following design standards for color, roofs, and fences:
    - i. Roofs: Roofs shall be composed of non-glare earthtone or woodtone materials that minimize reflectivity. The approved Munsell® colors for all roofs shall be included on the elevation sheets. The manufacturer's specification that the roof material is non-reflective shall be provided.
  - G. The permittee shall provide (3) three sets of the final plans for TRPA Acknowledgement.
4. To the maximum extent allowable by law, the Permittee agrees to indemnify, defend, and hold harmless TRPA, its Governing Board, its Planning Commission, its agents, and its employees (collectively TRPA) from and against any and all suits, losses, damages, injuries, liabilities, and claims by any person (a) for any injury (including death) or damage to person or property or (b) to set aside, attack, void, modify, amend, or annul any actions of any TRPA. The foregoing indemnity obligation applies, without limitation, to any and all suits, losses, damages, injuries,

liabilities, and claims by any person from any cause whatsoever arising out of or in connection with either directly or indirectly, and in whole or in part (1) the processing, conditioning, issuance, or implementation of this permit; (2) any failure to comply with all applicable laws and regulations; or (3) the design, installation, or operation of any improvements, regardless of whether the actions or omissions are alleged to be caused by TRPA or Permittee.

Included within the Permittee's indemnity obligation set forth herein, the Permittee agrees to pay all fees of TRPA's attorneys and all other costs and expenses of defenses as they are incurred, including reimbursement of TRPA as necessary for any and all costs and/or fees incurred by TRPA for actions arising directly or indirectly from issuance or implementation of this permit. Permittee shall also pay all costs, including attorneys' fees, incurred by TRPA to enforce this indemnification agreement. If any judgment is rendered against TRPA in any action subject to this indemnification, the Permittee shall, at its expense, satisfy and discharge the same.

4. Through separate applications, the permittee shall transfer a total of 2,180 square feet of Class 5 coverage from an Edgewood Golf Course parcel for use for the pipeline and building construction portions of the project. All of the transferred land coverage shall be located within South Stateline Hydrologic Area 4. (Note all coverage transfers must be in compliance with Chapter 20 of the TRPA Code of Ordinances and the TRPA Rules of procedure).
5. All work associated with this permit requiring use of heavy equipment or vehicles shall take place within existing paved roadway or along existing compacted dirt shoulders.
6. All areas temporarily disturbed by construction shall be immediately reseeded/re-vegetated and mulched following backfilling of trenches and/or access holes.
7. All temporary soil stockpiles shall be appropriately covered with tarps and contained by temporary erosion control fences and/or coir logs with gravel bags and shall be located outside of the Shorezone including the backshore.
8. No grading or excavation shall be permitted except as shown on the plans.
9. Any and all unused excavated materials shall be hauled away from the site to a TRPA approved location. No fills or re-contouring, other than backfill for structures, shall be allowed.
10. Any and all waste resulting from the saw-cutting of pavement shall be removed using a vacuum (or other TRPA approved method) during the cutting process or immediately thereafter. Discharge of waste material to surface drainage features is prohibited and constitutes a violation of this permit.
11. All employee vehicles shall be parked on existing paved surfaces or existing compacted road shoulders. A limited number of employee vehicles may be parked in the area staging areas designated on approved plans.
12. In the event ground water is encountered during trenching, an approved TRPA dewatering plan shall be put into affect for the purpose of reducing the possibility of contaminated water leaching into the lake.

13. The Permittee shall submit a dewatering plan describing in detail a dewatering system and disposal method of any water entering the excavation or other parts of the work site in accordance with the provisions of the attached TRPA recommended contents for a dewatering plan.
14. Tree removal is not authorized as a result of this permit.
15. Temporary erosion control structures must be maintained until disturbed areas are stabilized or sufficiently re-vegetated. Temporary erosion control structures shall be removed once the site has been stabilized or re-vegetated.
16. Dust control in the way of sweeping of dirt tracked onto pavement at the end of each day is required.
17. Before water is introduced into the new system for final use, stabilization work, vegetation and other work shall be completed.
18. This site shall be winterized in accordance with the provisions of Attachment S by October 15<sup>th</sup> of each construction season. All disturbed areas shall be stabilized with a 3-inch layer of mulch or covered with an erosion control blanket.

**END OF PERMIT**



Mail  
PO Box 5310  
Stateline, NV 89449-5310

Location  
128 Market Street  
Stateline, NV 89449

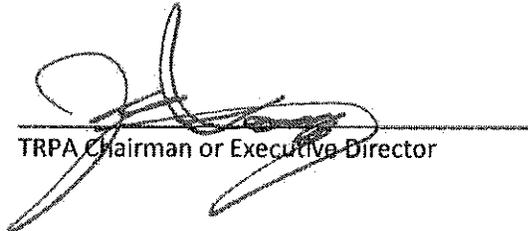
Contact  
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**MITIGATED STATEMENT OF NO SIGNIFICANT EFFECT**

PROJECT DESCRIPTION:           New UV Water Treatment Facility           APN 1318-00-002-005  
PERMITTEE:                     Edgewood Water Company                 FILE # ERSP2013-0555  
COUNTY/LOCATION:             Douglas County, 100 U.S. Highway 50

Staff Analysis: In accordance with Article IV of the Tahoe Regional Planning Compact, as amended, and Section 6.3 of the TRPA Rules and Regulations of Practice and Procedure, the TRPA staff has reviewed the information submitted with the subject project. On the basis of this initial environmental evaluation, Agency staff has found that the subject project will not have a significant effect on the environment.

Determination: Based on the above-stated finding, the subject project is conditionally exempt from the requirement to prepare an Environmental Impact Statement. The conditions of this exemption are the conditions of permit approval.

  
\_\_\_\_\_  
TRPA Chairman or Executive Director

8/12/13  
\_\_\_\_\_  
Date