—in areas are spaced for elite type, i.e., 12 characters/inch).

FORM 1 GENERAL

EPA

U.S. ENVIRONMENTAL PROTECTION AGENCY

GENERAL INFORMATION

Consolidated Permits Program

(Read the "General Instructions" before starting.)

I. EPA I.D. NUMBER

F

LABEL ITEMS

I. EPA I.D. NUMBER

III. FACILITY NAME

V. FACILITY MAILING ADDRESS

VI. FACILITY LOCATION

PLEASE PLACE LABEL IN THIS SPACE

GENERAL INSTRUCTIONS

If a preprinted label has been provided, affix it in the designated space. Review the information carefully; if any of it is incorrect, cross through it and enter the correct data in the appropriate fill—in area below. Also, if any of the preprinted data is absent *(the area to the left of the label space lists the information that should appear)*, please provide it in the proper fill—in area(s) below. If the label is complete and correct, you need not complete Items I, III, V, and VI *(except VI-B which must be completed regardless)*. Complete all items if no label has been provided. Refer to the instructions for detailed item descriptions and for the legal authorizations under which this data is collected.

II. POLLUTANT CHARACTERISTICS

INSTRUCTIONS: Complete A through J to determine whether you need to submit any permit application forms to the EPA. If you answer "yes" to any questions, you must submit this form and the supplemental form listed in the parenthesis following the question. Mark "X" in the box in the third column if the supplemental form is attached. If you answer "no" to each question, you need not submit any of these forms. You may answer "no" if your activity is excluded from permit requirements; see Section C of the instructions. See also, Section D of the instructions for definitions of **bold—faced terms.**

SPECIFIC QUESTIONS	MARK 'X' YES	NO	FORM ATTACHED
A. Is this facility a publicly owned **treatment works** which results in a discharge to **waters of the U.S.**? (FORM 2A)	X		X
B. Does or will this facility *(either existing or proposed)* include a **concentrated animal feeding operation** or **aquatic animal production facility** which results in a discharge to **waters of the U.S.**? (FORM 2B)		X	
C. Is this a facility which currently results in discharges to waters of the U.S. other than those described in A or B above? (FORM 2C)		X	
D. Is this a proposed facility *(other than those described in A or B above)* which will result in a discharge to waters of the U.S.? (FORM 2D)		X	
E. Does or will this facility treat, store, or dispose of hazardous wastes? (FORM 3)		X	
F. Do you or will you inject at this facility industrial or municipal effluent below the lowermost stratum containing, within one quarter mile of the well bore, underground sources of drinking water? (FORM 4)		X	
G. Do you or will you inject at this facility any produced water or other fluids which are brought to the surface in connection with conventional oil or natural gas production, inject fluids used for enhanced recovery of oil or natural gas, or inject fluids for storage of liquid hydrocarbons? (FORM 4)		X	
H. Do you or will you inject at this facility fluids for special processes such as mining of sulfur by the Frasch process, solution mining of minerals, in situ combustion of fossil fuel, or recovery of geothermal energy? (FORM 4)		X	
I. Is this facility a proposed stationary source which is one of the 28 industrial categories listed in the instructions and which will potentially emit 100 tons per year of any air pollutant regulated under the Clean Air Act and may affect or be located in an attainment area? (FORM 5)		X	
J. Is this facility a proposed stationary source which is NOT one of the 28 industrial categories listed in the instructions and which will potentially emit 250 tons per year of any air pollutant regulated under the Clean Air Act and may affect or be located in an attainment area? (FORM 5)		X	

III. NAME OF FACILITY

1 SKIP FLYING CLOUD CASINO AT BUENA VISTA RANCHERIA

IV. FACILITY CONTACT

A. NAME & TITLE *(last, first, & title)*	B. PHONE *(area code & no.)*
2 POPE, RHONDA, TRIBAL CHAIRPERSON	916 491 0011

V. FACILITY MAILING ADDRESS

A. STREET OR P.O. BOX

3 P.O. BOX 162283

B. CITY OR TOWN	C. STATE	D. ZIP CODE
4 SACRAMENTO	CA	95814

VI. FACILITY LOCATION

A. STREET, ROUTE NO. OR OTHER SPECIFIC IDENTIFIER

5 4650 COAL MINE ROAD

B. COUNTY NAME

AMADOR

C. CITY OR TOWN	D. STATE	E. ZIP CODE	F. COUNTY CODE *(if known)*
6 IONE	CA	95640	

CONTINUE ON REVERSE

CONTINUED FROM THE FRONT

VII. SIC CODES (4-digit, in order of priority)

A. FIRST	B. SECOND
(specify) 4952 SEWERAGE SYSTEMS	(specify)
C. THIRD	**D. FOURTH**
(specify)	(specify)

VIII. OPERATOR INFORMATION

A. NAME

BUENA VISTA BAND OF ME-WUK INDIANS

B. Is the name listed in Item VIII-A also the owner? [X] YES [ ] NO

C. STATUS OF OPERATOR (Enter the appropriate letter into the answer box; if "Other", specify.)

F = FEDERAL
S = STATE
P = PRIVATE
M = PUBLIC (other than federal or state)
O = OTHER (specify)

M (specify) INDIAN TRIBE

D. PHONE (area code & no.) A 916 491 0011

E. STREET OR P.O. BOX

P.O. BOX 162283

F. CITY OR TOWN SACRAMENTO

G. STATE CA

H. ZIP CODE 95814

IX. INDIAN LAND

Is the facility located on Indian lands? [ ] YES [ ] NO

X. EXISTING ENVIRONMENTAL PERMITS

A. NPDES (Discharges to Surface Water)	D. PSD (Air Emissions from Proposed Sources)
N N/A	9 P
B. UIC (Underground Injection of Fluids)	**E. OTHER (specify)**
U N/A	9 (specify)
C. RCRA (Hazardous Wastes)	**E. OTHER (specify)**
R N/A	9 (specify)

XI. MAP

Attach to this application a topographic map of the area extending to at least one mile beyond property bounderies. The map must show the outline of the facility, the location of each of its existing and proposed intake and discharge structures, each of its hazardous waste treatment, storage, or disposal facilities, and each well where it injects fluids underground. Include all springs, rivers and other surface water bodies in the map area. See instructions for precise requirements.

XII. NATURE OF BUSINESS (provide a brief description)

The Buena Vista Band of Me-Wuk Indians is a federally-recognized Indian Tribe, which is constructing a new casino and parking garage. The Tribe will own and operate the facilities on Indian lands in accordance with the Indian Gaming Regulatory Act of 1988. These facilities will include a gaming facility, restaurants, a parking structure, and administration facilities. The Buena Vista Rancheria is located approximately four miles south of Ione in the rolling Sierra Nevada Foothills.

XIII. CERTIFICATION (see instructions)

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this application and all attachments and that, based on my inquiry of those persons immediately responsible for obtaining the information contained in the application, I believe that the information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

A. NAME & OFFICIAL TITLE (type or print)	B. SIGNATURE	C. DATE SIGNED
Rhonda Pope, Tribal Chairperson		4-28-05

COMMENTS FOR OFFICIAL USE ONLY

FACILITY NAME AND PERMIT NUMBER:

Flying Cloud Casino at Buena Vista Rancheria

Form Approved 1/14/99
OMB Number 2040-0086

FORM 2A NPDES

NPDES FORM 2A APPLICATION OVERVIEW

APPLICATION OVERVIEW

Form 2A has been developed in a modular format and consists of a "Basic Application Information" packet and a "Supplemental Application Information" packet. The Basic Application Information packet is divided into two parts. All applicants must complete Parts A and C. Applicants with a design flow greater than or equal to 0.1 mgd must also complete Part B. Some applicants must also complete the Supplemental Application Information packet. The following items explain which parts of Form 2A you must complete.

BASIC APPLICATION INFORMATION:

A. **Basic Application Information for all Applicants.** All applicants must complete questions A.1 through A.8. A treatment works that discharges effluent to surface waters of the United States must also answer questions A.9 through A.12.

B. **Additional Application Information for Applicants with a Design Flow ≥ 0.1 mgd.** All treatment works that have design flows greater than or equal to 0.1 million gallons per day must complete questions B.1 through B.6.

C. **Certification.** All applicants must complete Part C (Certification).

SUPPLEMENTAL APPLICATION INFORMATION:

D. **Expanded Effluent Testing Data.** A treatment works that discharges effluent to surface waters of the United States and meets one or more of the following criteria must complete Part D (Expanded Effluent Testing Data):

1. Has a design flow rate greater than or equal to 1 mgd,
2. Is required to have a pretreatment program (or has one in place), or
3. Is otherwise required by the permitting authority to provide the information.

E. **Toxicity Testing Data.** A treatment works that meets one or more of the following criteria must complete Part E (Toxicity Testing Data):

1. Has a design flow rate greater than or equal to 1 mgd,
2. Is required to have a pretreatment program (or has one in place), or
3. Is otherwise required by the permitting authority to submit results of toxicity testing.

F. **Industrial User Discharges and RCRA/CERCLA Wastes.** A treatment works that accepts process wastewater from any significant industrial users (SIUs) or receives RCRA or CERCLA wastes must complete Part F (Industrial User Discharges and RCRA/CERCLA Wastes). SIUs are defined as:

1. All industrial users subject to Categorical Pretreatment Standards under 40 Code of Federal Regulations (CFR) 403.6 and 40 CFR Chapter I, Subchapter N (see instructions); and
2. Any other industrial user that:
   a. Discharges an average of 25,000 gallons per day or more of process wastewater to the treatment works (with certain exclusions); or
   b. Contributes a process wastestream that makes up 5 percent or more of the average dry weather hydraulic or organic capacity of the treatment plant; or
   c. Is designated as an SIU by the control authority.

G. **Combined Sewer Systems.** A treatment works that has a combined sewer system must complete Part G (Combined Sewer Systems).

ALL APPLICANTS MUST COMPLETE PART C (CERTIFICATION)

FACILITY NAME AND PERMIT NUMBER:

Flying Cloud Casino at Buena Vista Rancheria

Form Approved 1/14/99
OMB Number 2040-0086

BASIC APPLICATION INFORMATION

PART A. BASIC APPLICATION INFORMATION FOR ALL APPLICANTS:

All treatment works must complete questions A.1 through A.8 of this Basic Application Information packet.

A.1. Facility Information.

Facility name: Flying Cloud Casino at Buena Vista Rancheria Wastewater Reclamation Facility

Mailing Address: P.O. Box 162283
Sacramento, CA 95814

Contact person: Rhonda Pope

Title: Tribal Chairperson

Telephone number: 916-491-0011

Facility Address (not P.O. Box): 4650 Coal Mine Road
Ione, CA 95640

A.2. Applicant Information. If the applicant is different from the above, provide the following:

Applicant name: Same as above

Mailing Address:

Contact person:

Title:

Telephone number:

Is the applicant the owner or operator (or both) of the treatment works?

x owner x operator

Indicate whether correspondence regarding this permit should be directed to the facility or the applicant.

facility x applicant

A.3. Existing Environmental Permits. Provide the permit number of any existing environmental permits that have been issued to the treatment works (include state-issued permits).

NPDES	N/A	PSD	N/A
UIC	N/A	Other	N/A
RCRA	N/A	Other	N/A

A.4. Collection System Information. Provide information on municipalities and areas served by the facility. Provide the name and population of each entity and, if known, provide information on the type of collection system (combined vs. separate) and its ownership (municipal, private, etc.).

Name	Population Served	Type of Collection System	Ownership
Casino	Predominantly transient population	Separate	Tribe

Total population served Predominantly transient population

A.5. Indian Country.

a. Is the treatment works located in Indian Country?

__x__ Yes _____ No

b. Does the treatment works discharge to a receiving water that is either in Indian Country or that is upstream from (and eventually flows through) Indian Country?

__x__ Yes _____ No

A.6. Flow. Indicate the design flow rate of the treatment plant (i.e., the wastewater flow rate that the plant was built to handle). Also provide the average daily flow rate and maximum daily flow rate for each of the last three years. Each year's data must be based on a 12-month time period with the 12th month of "this year" occurring no more than three months prior to this application submittal.

a. Design flow rate 0.25 mgd

	Two Years Ago	Last Year	This Year	
b. Annual average daily flow rate	N/A	N/A	N/A	mgd
c. Maximum daily flow rate	N/A	N/A	N/A	mgd

A.7. Collection System. Indicate the type(s) of collection system(s) used by the treatment plant. Check all that apply. Also estimate the percent contribution (by miles) of each.

__x__	Separate sanitary sewer	100 %
_____	Combined storm and sanitary sewer	_____ %

A.8. Discharges and Other Disposal Methods.

a. Does the treatment works discharge effluent to waters of the U.S.? __x__ Yes _____ No

If yes, list how many of each of the following types of discharge points the treatment works uses:

i. Discharges of treated effluent	1 projected, 0 current
ii. Discharges of untreated or partially treated effluent	0
iii. Combined sewer overflow points	0
iv. Constructed emergency overflows (prior to the headworks)	0
v. Other _____	None

b. Does the treatment works discharge effluent to basins, ponds, or other surface impoundments that do not have outlets for discharge to waters of the U.S.? _____ Yes __x__ No

If yes, provide the following for each surface impoundment:

Location: N/A

Annual average daily volume discharged to surface impoundment(s) N/A mgd

Is discharge _____ continuous or _____ intermittent?

c. Does the treatment works land-apply treated wastewater? Projected Yes _____ No

If yes, provide the following for each land application site:

Location: Landscape Irrigation

Number of acres: TBD

Annual average daily volume applied to site: N/A Mgd

Is land application TBD continuous or _____ intermittent?

d. Does the treatment works discharge or transport treated or untreated wastewater to another treatment works? _____ Yes __x__ No

If yes, describe the mean(s) by which the wastewater from the treatment works is discharged or transported to the other treatment works (e.g., tank truck, pipe).

N/A

If transport is by a party other than the applicant, provide:

Transporter name: N/A

Mailing Address: N/A

Contact person: N/A

Title: N/A

Telephone number: N/A

For each treatment works that receives this discharge, provide the following:

Name: N/A

Mailing Address: N/A

Contact person: N/A

Title: N/A

Telephone number: N/A

If known, provide the NPDES permit number of the treatment works that receives this discharge. N/A

Provide the average daily flow rate from the treatment works into the receiving facility. N/A mgd

e. Does the treatment works discharge or dispose of its wastewater in a manner not included in A.8.a through A.8.d above (e.g., underground percolation, well injection)? ____ Yes X No

If yes, provide the following for each disposal method:

Description of method (including location and size of site(s) if applicable):

N/A

Annual daily volume disposed of by this method: N/A

Is disposal through this method N/A continuous or N/A intermittent?

WASTEWATER DISCHARGES:

If you answered "yes" to question A.8.a, complete questions A.9 through A.12 once for each outfall (including bypass points) through which effluent is discharged. Do not include information on combined sewer overflows in this section. **If you answered "no" to question A.8.a, go to** Part B, "Additional Application Information for Applicants with a Design Flow Greater than or Equal to 0.1 mgd."

A.9. Description of Outfall.

a. Outfall number OU-1

b. Location

Buena Vista Rancheria (City or town, if applicable) 95640 (Zip Code)

Amador (County) CA (State)

38° 16 ' 23" North (Latitude) 120° 54 ' 36" West (Longitude)

c. Distance from shore (if applicable) N/A ft.

d. Depth below surface (if applicable) N/A ft.

e. Average daily flow rate 0.17 mgd

f. Does this outfall have either an intermittent or a periodic discharge? ____ Yes __x__ No (go to A.9.g.)

If yes, provide the following information:

Number of times per year discharge occurs: N/A

Average duration of each discharge: N/A

Average flow per discharge: N/A mgd

Months in which discharge occurs: N/A

g. Is outfall equipped with a diffuser? ____ Yes __x__ No

A.10. Description of Receiving Waters.

a. Name of receiving water Unnamed seasonal creek-tributary to Jackson Creek

b. Name of watershed (if known)

United States Soil Conservation Service 14-digit watershed code (if known):

c. Name of State Management/River Basin (if known): San Joaquin River Basin

United States Geological Survey 8-digit hydrologic cataloging unit code (if known):

d. Critical low flow of receiving stream (if applicable):

acute N/A cfs chronic N/A cfs

e. Total hardness of receiving stream at critical low flow (if applicable): N/A mg/l of $CaCO_3$

FACILITY NAME AND PERMIT NUMBER:

Flying Cloud Casino at Buena Vista Rancheria

Form Approved 1/14/99
OMB Number 2040-0086

A.11. Description of Treatment.

a. What levels of treatment are provided? Check all that apply.

x Primary x Secondary

x Advanced _____ Other. Describe: _____

b. Indicate the following removal rates (as applicable):

Design BOD_5 removal or Design $CBOD_5$ removal	99	%
Design SS removal	99	%
Design P removal	73	%
Design N removal	84	%
Other Turbidity	<1NTU	%

c. What type of disinfection is used for the effluent from this outfall? If disinfection varies by season, please describe.

Ultraviolet (UV) disinfection

If disinfection is by chlorination, is dechlorination used for this outfall? _____ Yes _____ No

d. Does the treatment plant have post aeration? _____ Yes x No

A.12. Effluent Testing Information. All Applicants that discharge to waters of the US must provide effluent testing data for the following parameters. Provide the indicated effluent testing required by the permitting authority for each outfall through which effluent is discharged. Do not include information on combined sewer overflows in this section. All information reported must be based on data collected through analysis conducted using 40 CFR Part 136 methods. In addition, this data must comply with QA/QC requirements of 40 CFR Part 136 and other appropriate QA/QC requirements for standard methods for analytes not addressed by 40 CFR Part 136. At a minimum, effluent testing data must be based on at least three samples and must be no more than four and one-half years apart.

Outfall number: Data Not Available-Facility to be completed 9/06

PARAMETER	MAXIMUM DAILY VALUE		AVERAGE DAILY VALUE		
	Value	Units	Value	Units	Number of Samples
pH (Minimum)		s.u.			
pH (Maximum)		s.u.			
Flow Rate					
Temperature (Winter)					
Temperature (Summer)					

* For pH please report a minimum and a maximum daily value

POLLUTANT		MAXIMUM DAILY DISCHARGE		AVERAGE DAILY DISCHARGE			ANALYTICAL METHOD	ML / MDL
		Conc.	Units	Conc.	Units	Number of Samples		
CONVENTIONAL AND NONCONVENTIONAL COMPOUNDS.								
BIOCHEMICAL OXYGEN	BOD-5							
DEMAND (Report one)	CBOD-5							
FECAL COLIFORM								
TOTAL SUSPENDED SOLIDS (TSS)								

END OF PART A.
REFER TO THE APPLICATION OVERVIEW TO DETERMINE WHICH OTHER PARTS OF FORM 2A YOU MUST COMPLETE

FACILITY NAME AND PERMIT NUMBER:

Flying Cloud Casino at Buena Vista Rancheria

Form Approved 1/14/99
OMB Number 2040-0086

BASIC APPLICATION INFORMATION

PART B. ADDITIONAL APPLICATION INFORMATION FOR APPLICANTS WITH A DESIGN FLOW GREATER THAN OR EQUAL TO 0.1 MGD (100,000 gallons per day).

All applicants with a design flow rate ≥ 0.1 mgd must answer questions B.1 through B.6. All others go to Part C (Certification).

B.1. Inflow and Infiltration. Estimate the average number of gallons per day that flow into the treatment works from inflow and/or infiltration.

0 gpd

Briefly explain any steps underway or planned to minimize inflow and infiltration.

B.2. Topographic Map. Attach to this application a topographic map of the area extending at least one mile beyond facility property boundaries. This map must show the outline of the facility and the following information. (You may submit more than one map if one map does not show the entire area.) See Figure 1, Topographic Map. See Engineering Report (attached).

a. The area surrounding the treatment plant, including all unit processes.

b. The major pipes or other structures through which wastewater enters the treatment works and the pipes or other structures through which treated wastewater is discharged from the treatment plant. Include outfalls from bypass piping, if applicable.

c. Each well where wastewater from the treatment plant is injected underground.

d. Wells, springs, other surface water bodies, and drinking water wells that are: 1) within 1/4 mile of the property boundaries of the treatment works, and 2) listed in public record or otherwise known to the applicant.

e. Any areas where the sewage sludge produced by the treatment works is stored, treated, or disposed.

f. If the treatment works receives waste that is classified as hazardous under the Resource Conservation and Recovery Act (RCRA) by truck, rail, or special pipe, show on the map where that hazardous waste enters the treatment works and where it is treated, stored, and/or disposed.

B.3. Process Flow Diagram or Schematic. Provide a diagram showing the processes of the treatment plant, including all bypass piping and all backup power sources or redundancy in the system. Also provide a water balance showing all treatment units, including disinfection (e.g, chlorination and dechlorination). The water balance must show daily average flow rates at influent and discharge points and approximate daily flow rates between treatment units. Include a brief narrative description of the diagram. See Engineering Report (attached).

B.4. Operation/Maintenance Performed by Contractor(s).

Are any operational or maintenance aspects (related to wastewater treatment and effluent quality) of the treatment works the responsibility of a contractor? x Yes ___ No

If yes, list the name, address, telephone number, and status of each contractor and describe the contractor's responsibilities (attach additional pages if necessary).

Name: Contractor not selected-

Mailing Address:

Telephone Number:

Responsibilities of Contractor:

B.5. Scheduled Improvements and Schedules of Implementation. Provide information on any uncompleted implementation schedule or uncompleted plans for improvements that will affect the wastewater treatment, effluent quality, or design capacity of the treatment works. If the treatment works has several different implementation schedules or is planning several improvements, submit separate responses to question B.5 for each. (If none, go to question B.6.)

a. List the outfall number (assigned in question A.9) for each outfall that is covered by this implementation schedule.

N/A

b. Indicate whether the planned improvements or implementation schedule are required by local, State, or Federal agencies.

___ Yes x No

c If the answer to B.5.b is "Yes," briefly describe, including new maximum daily inflow rate (if applicable).

N/A

d. Provide dates imposed by any compliance schedule or any actual dates of completion for the implementation steps listed below, as applicable. For improvements planned independently of local, State, or Federal agencies, indicate planned or actual completion dates, as applicable. Indicate dates as accurately as possible.

Implementation Stage	Schedule MM / DD / YYYY	Actual Completion MM / DD / YYYY
– Begin construction	___/___/_____	___/___/_____
– End construction	___/___/_____	___/___/_____
– Begin discharge	___/___/_____	___/___/_____
– Attain operational level	___/___/_____	___/___/_____

e. Have appropriate permits/clearances concerning other Federal/State requirements been obtained? ____Yes ____No

Describe briefly: N/A

B.6. EFFLUENT TESTING DATA (GREATER THAN O.1 MGD ONLY).

Applicants that discharge to waters of the US must provide effluent testing data for the following parameters. Provide the indicated effluent testing required by the permitting authority for each outfall through which effluent is discharged. Do not include information on combined sewer overflows in this section. All information reported must be based on data collected through analysis conducted using 40 CFR Part 136 methods. In addition, this data must comply with QA/QC requirements of 40 CFR Part 136 and other appropriate QA/QC requirements for standard methods for analytes not addressed by 40 CFR Part 136. At a minimum, effluent testing data must be based on at least three pollutant scans and must be no more than four and one-half years old.

Outfall Number: Data not available. Facility not completed.

POLLUTANT	MAXIMUM DAILY DISCHARGE		AVERAGE DAILY DISCHARGE			ANALYTICAL METHOD	ML / MDL
	Conc.	Units	Conc.	Units	Number of Samples		
CONVENTIONAL AND NONCONVENTIONAL COMPOUNDS.							
AMMONIA (as N)							
CHLORINE (TOTAL RESIDUAL, TRC)							
DISSOLVED OXYGEN							
TOTAL KJELDAHL NITROGEN (TKN)							
NITRATE PLUS NITRITE NITROGEN							
OIL and GREASE							
PHOSPHORUS (Total)							
TOTAL DISSOLVED SOLIDS (TDS)							
OTHER							

END OF PART B.
REFER TO THE APPLICATION OVERVIEW TO DETERMINE WHICH OTHER PARTS OF FORM 2A YOU MUST COMPLETE

FACILITY NAME AND PERMIT NUMBER:

Flying Cloud Casino at Buena Vista Rancheria

Form Approved 1/14/99
OMB Number 2040-0086

BASIC APPLICATION INFORMATION

PART C. CERTIFICATION

All applicants must complete the Certification Section. Refer to instructions to determine who is an officer for the purposes of this certification. All applicants must complete all applicable sections of Form 2A, as explained in the Application Overview. Indicate below which parts of Form 2A you have completed and are submitting. By signing this certification statement, applicants confirm that they have reviewed Form 2A and have completed all sections that apply to the facility for which this application is submitted.

Indicate which parts of Form 2A you have completed and are submitting:

_x_ Basic Application Information packet

Supplemental Application Information packet:

_____ Part D (Expanded Effluent Testing Data)

_____ Part E (Toxicity Testing: Biomonitoring Data)

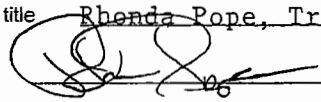
_____ Part F (Industrial User Discharges and RCRA/CERCLA Wastes)

_____ Part G (Combined Sewer Systems)

ALL APPLICANTS MUST COMPLETE THE FOLLOWING CERTIFICATION.

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering the information, the information is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Name and official title Rhonda Pope, Tribal Chairperson

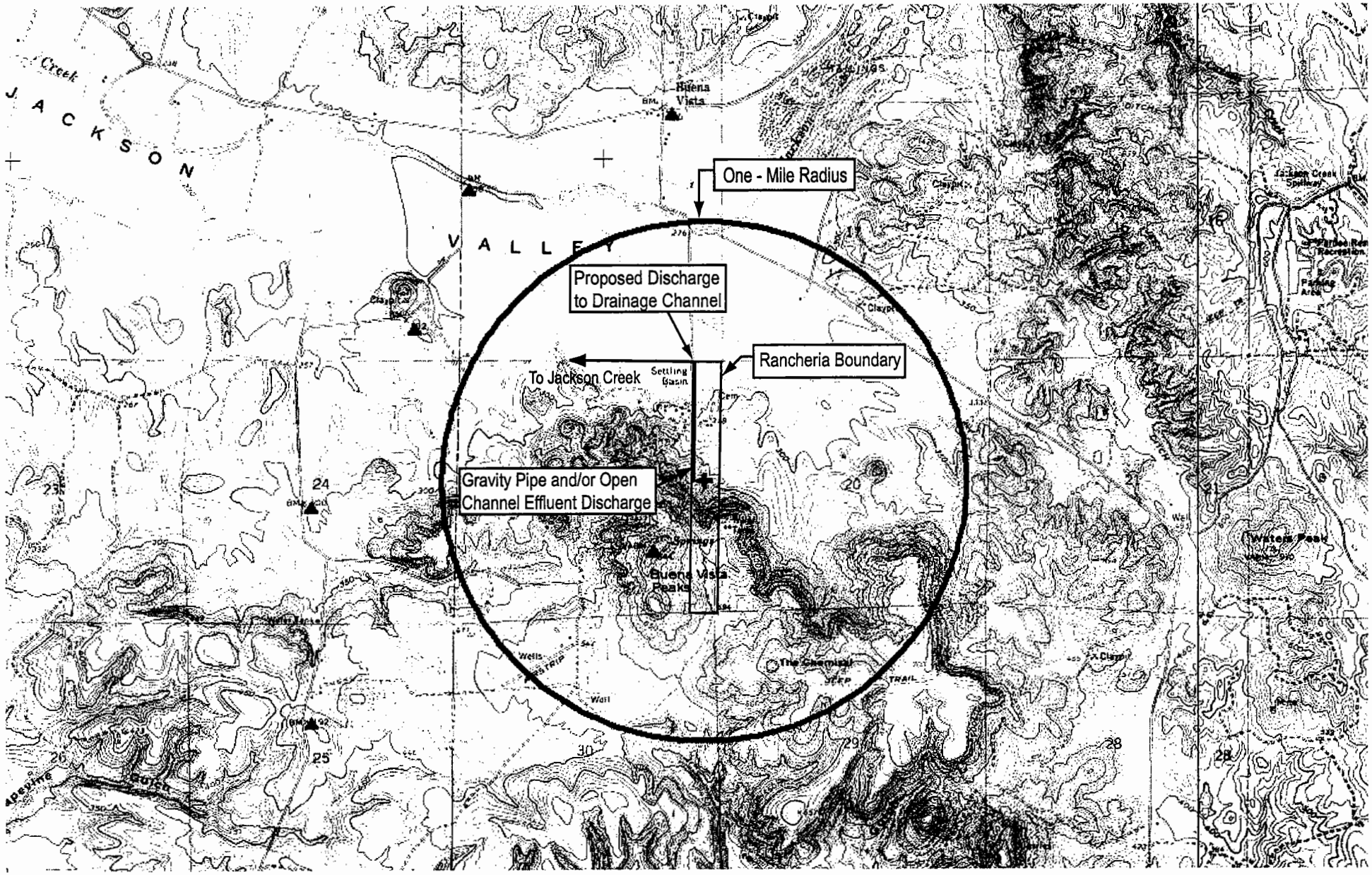
Signature 

Telephone number 916-491-0011

Date signed 4-26-05

Upon request of the permitting authority, you must submit any other information necessary to assess wastewater treatment practices at the treatment works or identify appropriate permitting requirements.

SEND COMPLETED FORMS TO:



s:\common\projects\Buena Vista Rancheria\05-NPDES Permit App\002-Figures\Fig.1.pdf

HydroScience Engineers, Inc.

Source: Terrain Navigator Pro

Figure 1
NPDES Permit Application
Topographic Map

Buena Vista Rancheria

Wastewater Treatment Plant Engineering Report

May 2005

Prepared for:

Buena Vista Band of Me-Wuk Indians
Ione, California

HydroScience Engineers, Inc.

Contents

Appendices

Figures

Tables

1.0 Introduction

The Buena Vista Band of Me-Wuk Indians (Tribe) retained HydroScience Engineers, Inc. (HSe) to prepare a National Pollutant Discharge Elimination System (NPDES) permit application for the proposed Buena Vista Wastewater Treatment Plant (WWTP). This Engineering Report describes the proposed Buena Vista WWTP and is included as part of the permit application package. The objectives of this report are to:

- Describe the project
- Describe the proposed on-site WWTP
- Characterize the effluent water quality
- Identify and characterize the receiving waters downstream of the WWTP

The Buena Vista Rancheria lands constitute "Indian lands" in accordance with the Indian Gaming Regulatory Act of 1988. The Tribe proposes to develop a casino on the 67-acre Rancheria located in Amador County, California. The Project is located approximately four miles south of Ione and approximately eight miles southwest of Jackson in the rolling Sierra Nevada foothills. The Project address is:

4650 Coal Mine Road
Ione, CA 95640

The parcel includes the portion of the northeast quarter of Section 19, Township 5 north, Range 10 east, Mount Diablo Base Meridian. It is approximately 5,280 feet north to south and approximately 578 feet east to west. The location is shown in **Figure 1-1.** The center of the Rancheria is located at approximately latitude 38º 16' 23" north, longitude 120º 54' 36" west. The property consists of two relatively flat areas with a steeply inclined transition in the middle section of the parcel where naturally-occurring springs feed a pond. An inactive co-generation facility is located west of the property and a 218-acre mining property owned by Pacific Coast Building Products is located east of the property. Wooded private property is located south of the property. Crops and pastureland lie to the north and northwest. The Buena Vista Peaks lie along the western boundary of the property along the southern end. These features are shown in **Figure 1-2**.

This report is divided into sections as described below:

Section 1 – Introduction: The purpose of the report, a description of the property, and the location of the Buena Vista Rancheria are presented.

Section 2 – Project Description: The proposed Buena Vista Rancheria project and a description of the project site are presented.

Section 3 – Wastewater Characterization: Anticipated wastewater quantities and the quality of influent and effluent are described.

Section 4 – Receiving Water Characterization: The point of discharge on Indian lands and the receiving waters downstream of the wastewater treatment plant are described. Beneficial uses and existing water quality data are included.

Section 5 – Proposed Wastewater Treatment: This section describes the proposed wastewater treatment system process and design parameters.

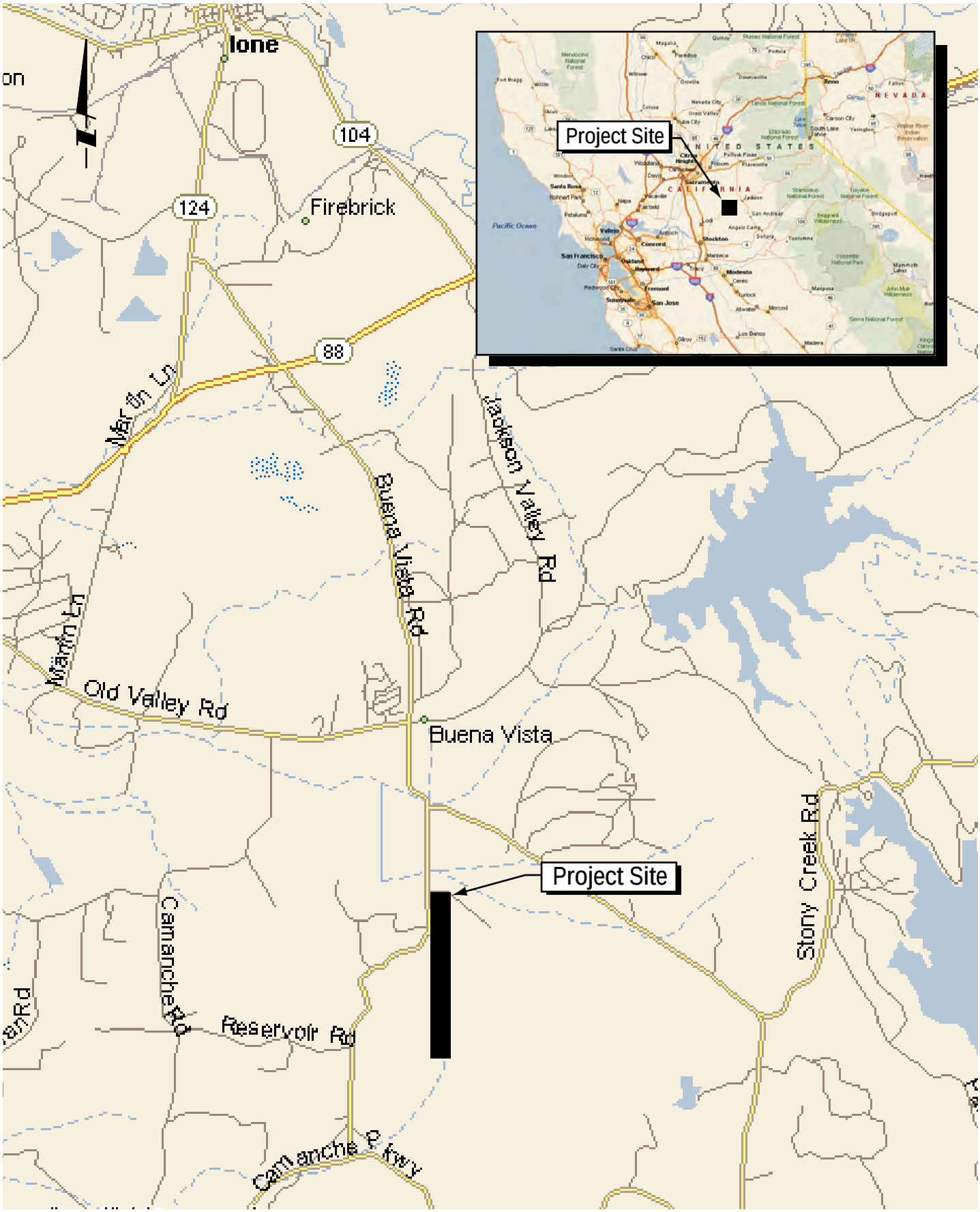
Section 6 – Regulatory Considerations: The regulations applicable to the NPDES permit application are discussed.

Section 7 – Existing Local Discharge Permits: Requirements in discharge permits for wastewater treatment plants upstream and downstream of the proposed discharge point are presented.

Section 8 – Anticipated Project Wastewater Discharge Permit: Anticipated limitations and requirements are presented, based on existing permits described in the previous section.

Section 9 – Abbreviations: Abbreviations used in this report are defined.

Section 10 – References: References used in the preparation of this application are listed.



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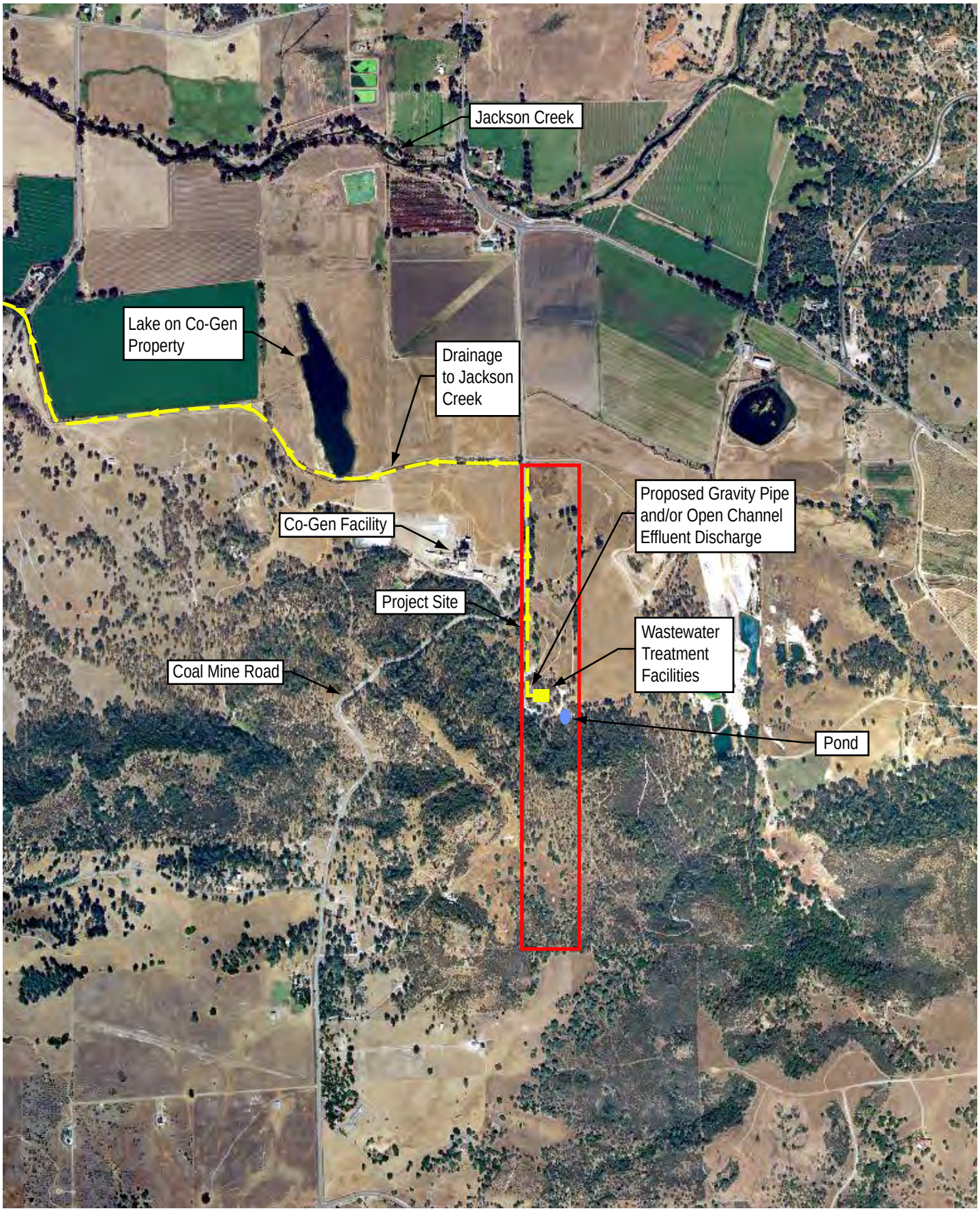
HydroScience Engineers, Inc.

Sources: Streets & Trips, 2004

Figure 1-1
Buena Vista Rancheria
Engineering Report
Vicinity and Location Map



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HydroScience Engineers, Inc.

Figure 1-2
Buena Vista Rancheria
Engineering Report
Aerial View

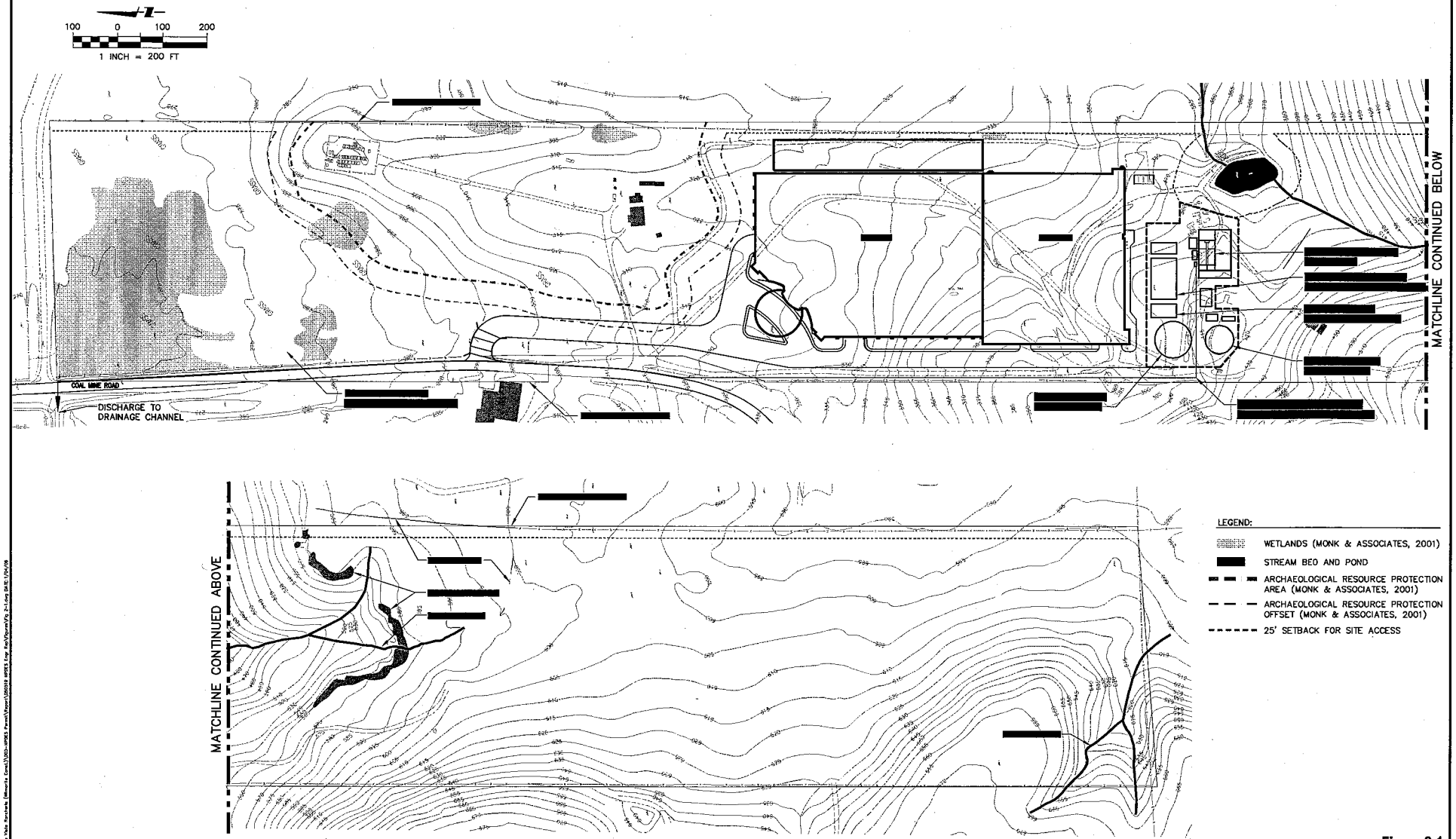
2.0 Project Description

This Engineering Report for the Tribe's NPDES permit application includes a description of the proposed conveyance, treatment, and disposal of wastewater from the Project. The multi-level casino will have 56,960 square feet of main gaming floor designed to accommodate up to 2,000 slot machines and 80 gaming tables. Additional casino facilities may include restaurant dining areas, kitchens, retail outlets, lounges, and guest support services. Restaurants may include a buffet, a specialty restaurant, a casual restaurant, a coffee shop, and a food court/fast food area. The mezzanine level of the casino may offer a ballroom, meeting rooms, men's and women's spas, pool, deck, kitchens, administrative offices, and employee services rooms. The casino, including all auxiliary services and spaces, will encompass approximately 200,000 square feet.

A conceptual site layout of the proposed casino and parking garage is shown in **Figure 2-1.** The layout also shows the planned location of the wastewater treatment facilities. An immersed membrane bioreactor (MBR) is planned to provide tertiary-treated effluent that complies with Title 22 requirements. An effluent discharge by gravity pipeline and/or open channel is the subject of this NPDES permit application. The effluent would discharge north along the west boundary of the property in a gravity pipe and/or an open channel, and would leave the property at the northwest corner, where it will cross under Coal Mine Road and join the drainage that flows west across the co-generation facility property, ultimately flowing to Jackson Creek **(Figure 2-2)**. (Regional drainage is discussed in more detail in Section 4.0.) **Figure 2-1** also depicts the following existing site features that will remain undisturbed:

- Spring Leading to Pond
- Pond
- Wetlands
- Archaeological Resource Protection Area

Recycled water produced on-site will probably be used by the Project for toilet flushing, landscape irrigation, and possibly for fire suppression.



HydroScience Engineers, Inc.

Figure 2-1
Buena Vista Rancheria
Engineering Report
Site Plan

MAP SOURCE: TERRAIN NAVIGATOR PRO

Figure 2-2
Buena Vista Rancheria
Engineering Report
Drainage to Jackson Creek

HydroScience Engineers, Inc.

3.0 Wastewater Characterization

This section provides a summary of expected Buena Vista WWTP influent and effluent water quality and quantity. An estimate of the quantity of wastewater generated by the Project is presented.

3.1 Influent Water Quality and Quantity

Quality: The quality of the Project's influent wastewater differs somewhat from typical domestic sewage. Typical gaming facility wastes have higher BOD and TSS values compared to domestic wastewater. Typical BOD and TSS values for gaming and domestic sewage are identified in **Table 3-1.**

Table 3-1: Typical WWTP Influent Water Quality

Parameter	Units	Typical Casino WWTP	Domestic Sewage [1]
BOD	mg/L	450-600	100-350
TSS	mg/L	450-600	100-400

[1] Tchobanoglous et al., 2003.

Shock loadings are also typical of gaming facility wastewater facilities. Weekend flows are much higher than weekday flows, and evening flows are higher than daytime flows. Any wastewater treatment process selected for use must be able to handle the high strength waste and react well to wide variations in flow.

Quantity: Average weekday and peak weekend flows were developed from analysis of similar gaming facilities. Based on projected water usage by the Project, daily wastewater demands for weekday and weekend usage are summarized in **Table 3-2.** The average annual flow is a weighted average of the weekday and weekend flows for the Project, and is largely based on historical flows generated from similar gaming facility operations.

Table 3-2: Projected Flows and Design Capacity for the Buena Vista WWTP

	Weekday Flow (gpd)	Weekend Flow (gpd)	Average Flow (gpd)
Daily Flows	100,000	180,000	120,000
Contingency Capacity[1]	150,000	230,000	170,000
Design Capacity[2]		**250,000**	

[1]Includes 50,000 gpd contingency capacity for the WWTP.
[2]WWTP sized based on the weekend contingency capacity rounded up to the next standard incremental MBR size.
gpd: Gallons per day
All flows rounded to the nearest 10,000 gpd.

The projected flows are increased by 50,000 gpd to provide for contingencies. The design capacity of the WWTP is based on the weekend contingency capacity rounded up to the next standard incremental MBR size.

3.2 Effluent Water Quality and Quantity

Quality: Some chemical characteristics of wastewater quality vary by location depending on water supplies, while other characteristics such as BOD and suspended solids are based more on the type of use.

Influent wastewater concentrations are summarized in **Table 3-1**. The wastewater is not expected to contain any significant concentrations of heavy metals or other priority pollutants that may be present in municipal treatment plants with industrial dischargers. Chemical characteristics of the water supply have not yet been determined as the proposed onsite wells have not been developed.

Projected effluent quality for the MBR system is summarized in **Table 3-3**. Because the project has not yet been constructed, representative operating data for the Buena Vista WWTP is not currently available. When operational data is available, it will be submitted to the USEPA in accordance with all permit requirements.

Table 3-3: Example MBR Effluent Wastewater Quality

Parameter	Units	Typical Effluent
BOD	mg/L	<1
Nitrate	mg/L	<8
Coliform	MPN/100 ml	<2.2
Turbidity	Nephelometric Turbidity Unit (NTU)	<0.1

Source: Thunder Valley MBR facility.

Quantity: The effluent flows are assumed to be the same as the influent design flows presented in **Table 3-2**. Recycling and other discharge alternatives may be feasible and could reduce the discharge into the creek. For this permit application it is assumed that there is no water reuse and that water discharge is the only disposal alternative.

4.0 Receiving Water Characterization

This section describes the surface topography, climate, geology, surface hydrology, subsurface hydrology, and land/water use patterns in the vicinity of the proposed project.

4.1 Topography

The Rancheria is located in the Sierra Nevada foothills, approximately four miles south of Ione, and approximately eight miles southwest of Jackson. Terrain in the vicinity of the proposed project ranges from nearly flat to steeply sloped. Elevations on the 67-acre Rancheria range from 270 to 670 feet above mean sea level (ft. MSL). The Rancheria parcel has relatively flat areas at the north and south ends, with a steep transitional zone exhibiting flowing springs in the center of the property.

4.2 Climate

The climate is temperate, with hot dry summers and mild winters. The average annual rainfall total is 20 inches, with most of the rainfall occurring between October and April.

4.3 Geology and Soils

The project site is located in the upper member of the Eocene Ione Formation. The soils of this formation are primarily sands with some clay. The Ione Formation is underlain at great depth by the Sierra Nevada basement series.

Surface soils across the site are well-drained, thin (one foot thick in many places), and primarily of the Laniger seies, characterized by moderately rapid permeability.

The Bear Mountain fault zone is located approximately four miles east of the site. The Alquist-Priolo maps indicate no faults zoned for special studies within approximately 60 miles of the site.

4.4 Hydrology

This section discusses surface and subsurface hydrology.

4.4.1 Regional Surface Hydrology

The project is located in the San Joaquin River hydrologic region as defined by California Department of Water Resources Bulletin 160-98. The proposed discharge would be tributary to

the Mokelumne River within the California Regional Water Quality Control Board hydrologic unit 531.2, "Mokelumne River, Camanche River to delta".

Surface flows in the vicinity of the project site, and over nearly all of the 67-acre Rancheria, trend generally north, and are tributary to Jackson Creek near the town of Buena Vista. Jackson Creek is tributary to Dry Creek approximately five miles from the project site, and Dry Creek is tributary to the Mokelumne River near the town of Walnut Grove in Sacramento County, approximately 30 miles from the site.

The Jackson Creek watershed encompasses approximately 60 square miles and extends to a maximum elevation of about 3,000 ft. MSL. The point at which the proposed discharge would reach Jackson Creek is approximately 1.8 miles downstream from (west of) Lake Amador. Lake Amador is the source of water supplied by JVID to irrigation customers in the surrounding area. JVID also supplies water to potable water treatment plants at Lake Amador (for recreational users) and in Jackson Valley (at The Oaks mobile home park). The flows in Jackson Creek at the project's tributary point are determined by JVID releases from Lake Amador. The flows are not gaged, but are believed to be low in the summer. The City of Jackson operates a gage immediately upstream from the City of Jackson WWTP discharge to Jackson Creek. A report generated by Eco:Logic of Roseville in 2004 estimates that critical low flows in Jackson Creek above the City of Jackson are approximately 0.4 million gallons per day (MGD). The current average daily discharge from the City of Jackson WWTP is about 0.6 MGD.

The flow in Jackson Creek is known to be augmented significantly by water lost from various existing unlined water conveyance ditches in the local area. The Amador Water Agency (AWA) operates an unlined ditch that carries water from Lake Tabeaud (south of Pine Grove) to Sutter Creek. AWA estimated that approximately 4 to 5 cubic feet per second (2.6 to 3.2 MGD) percolates from their unlined ditch to the channel of Jackson Creek (DHS, 2001). AWA was, in 2001, considering replacement of the unlined ditch with a pipe conveyance to Sutter Creek. If the lost ditch water was removed from the flow in Jackson Creek by virtue of ditch replacement, then the water available to downstream agricultural users could be significantly reduced, especially in late summer and early autumn, because JVID would see reduced flows into Lake Amador. The proposed discharge could provide a source of high quality irrigation water to agricultural users in the Jackson Valley, who may see the availability of water from Lake Amador reduced in future years due to upstream conveyance improvements.

4.4.2 Project Site Surface Hydrology

The north (lower elevation) half of the site, as well as approximately 40 acres lying west of the site, drain into a small jurisdictional wetland approximately 2.8 acres in size located at the northwest corner of the Rancheria parcel (USACE, 2001). The wetland drains in a northerly direction to Jackson Creek, approximately 0.7 mile away.

Nearly all of the southern (higher elevation) portion of the Rancheria parcel drains toward the north, through a spring-fed pond near the Tribal headquarters. The pond overflows off the eastern boundary of the Rancheria, and is tributary to an ephemeral surface water course, which flows east, then north, and finally wet, crossing Coal Mine Road, and joining the flow from the northwest corner of the site where it flows west across the co-generation facility property. In the wet season, the water course is tributary to Jackson Creek; in the dry season the flow infiltrates into the stream bed before reaching Jackson Creek. The proposed surface water discharge point is in a gravity pipe and/or open channel along the west boundary of the property (on Tribal lands), and would leave the property at the northwest corner as shown in **Figures 1-2, 2-1, 2-2, and 4-1**. The proposed discharge would not be tributary to the jurisdictional wetland located at the northwest corner of the Rancheria parcel.

The extreme southern portion of the Rancheria parcel (less than 5 acres) drains to the south, and is tributary to Lake Camanche via Grapevine Gulch.

4.4.3 Project Site Subsurface Hydrology

The California Department of Water Resources Bulletin 118 places the project site within the Upper Mokelumne unit. The area is not characterized by a principle aquifer, and is not located within the boundaries of a defined ground water basin. Ground water sources within the region are highly variable with respect to yield, depth, dependability, and quality. Absent widespread facies of alluvium, ground water resides primarily in fractures in the bedrock underlying the generally thin surface soils.

4.5 Land Use in the Local Area

On the Rancheria itself, there is a cultural and archaeological area containing a cemetery and remains of three roundhouses in the northern portion of the site. A 2.8-acre jurisdictional wetland is located in the northwest corner of the site **(Figure 2-1).**

Land surrounding the project site is used primarily for grazing livestock. An inactive co-generation facility is located approximately 0.5 miles away to the west; it was operated for about ten years and has been inactive since 1999. A former mining site is located approximately 0.5 miles to the east **(Figure 1-2)**.