

TYPE OR PRINT
IN BLACK INK
(For instructions, see
booklet: "How to File an
Application to Appropriate
Water in California")



California Environmental Protection Agency

State Water Resources Control Board
Division of Water Rights
P.O. Box 2000, Sacramento, CA 95812-2000
Tel: (916) 341-5300 Fax: (916) 341-5400
www.waterrights.ca.gov

APPLICATION NO. 29657
(leave blank)

3rd AMENDED

APPLICATION TO APPROPRIATE WATER

SECTION A: NOTICE INFORMATION

1. APPLICANT/AGENT

a.

	APPLICANT (County)	ASSIGNED AGENT (if any)
Name	County of San Joaquin & Assignees c/o Dept. of Public Works at	James C. Hanson Consulting Civil Engineer
Mailing Address	P.O. Box 1810	444 North Third Street, Suite 400
City, State & Zip	Stockton, CA 95201	Sacramento, CA 95811
Telephone	(209) 468-3100	
Fax		
E-mail		

2. OWNERSHIP INFORMATION (Please check type of ownership.)

- Sole Owner Limited Liability Company (LLC) General Partnership*
 Limited Partnership* Business Trust Husband/Wife Co-Ownership
 Corporation Joint Venture Other County

*Please provide a copy of your partnership agreement.

3. PROJECT DESCRIPTION (Provide a detailed description of your project, including, but not limited to, type of construction activity, area to be graded or excavated, and how the water will be used.)

See Attachment

For continuation, see Attachment No. _____

4. PURPOSE OF USE, DIVERSION/STORAGE AMOUNT AND SEASON

a. PURPOSE OF USE (irrigation, domestic, etc.)	DIRECT DIVERSION				STORAGE		
	AMOUNT		SEASON OF DIVERSION		AMOUNT	SEASON OF COLLECTION	
	Rate (cfs or gpd)*	Acre-feet per year	Beginning date (month & day)	Ending date (month & day)	Acre-feet per year	Beginning date (month & day)	Ending date (month & day)
Municipal							
Industrial	350	147,000	12/1	6/30	147,000	12/1	6/30
Irrigation							

See Attachment No. _____ * If rate is less than 0.025 cubic feet per second (cfs), use gallons per day (gpd).

- b. Total combined amount taken by direct diversion and storage during any one year will be 147,000 acre-feet.
c. Reservoir storage is: onstream offstream underground (If underground storage, attach Form APP-UGSTOR.)
d. County in which diversion is located: Sacramento County in which water will be used: San Joaquin
e. Assessor's Parcel Number(s): _____

5. SOURCES AND POINTS OF DIVERSION/REDIVERSION See Attachment

- a. Sources and Points of Diversion (POD)/Points of Rediversion (PORD):
- POD / PORD # _____ tributary to _____
thence _____
 POD / PORD # _____ tributary to _____
thence _____
 POD / PORD # _____ tributary to _____
thence _____
 POD / PORD # _____ tributary to _____
thence _____

See Attachment No. _____

b. State Planar and Public Land Survey Coordinate Description:

POD/ PORD #	CALIFORNIA COORDINATES (NAD 27)	ZONE	POINT IS WITHIN (40-acre subdivision)	SECTION	TOWN SHIP	RANGE	BASE AND MERIDIAN
	See Attachment		¼ of ¼				
			¼ of ¼				
			¼ of ¼				
			¼ of ¼				

See Attachment No. ____

c. Name of the post office most often used by those living near the proposed point(s) of diversion:

Sacramento

6. WATER AVAILABILITY

- a. Have you attached a water availability analysis for this project? YES NO See Attachment
If NO, provide sufficient information to demonstrate that there is reasonable likelihood that unappropriated water is available for the proposed appropriation:

See Attachment No. ____

- b. Is your project located on a stream system declared to be fully appropriated by the State Water Resources Control Board during your proposed season of diversion? YES NO
- c. In an average year, does the stream dry up at any point downstream of your project? YES NO If YES, during which months? Jan Feb Mar Apr May Jun Jul Aug Sep Oct Nov Dec
- d. What alternate sources of water are available if a portion of your requested diversion season must be excluded because water is not available for appropriation? (e.g., percolating groundwater, purchased water, etc.)
At times when water may not be available for diversion, the County can rely on
 See Attachment No. ____ its groundwater supplies.

7. PLACE OF USE See Attachment

USE IS WITHIN (40-acre subdivision)	SECTION*	TOWNSHIP	RANGE	BASE & MERIDIAN	IF IRRIGATED	
					Acres	Presently cultivated?
¼ of ¼						<input type="checkbox"/> YES <input type="checkbox"/> NO
¼ of ¼						<input type="checkbox"/> YES <input type="checkbox"/> NO
¼ of ¼						<input type="checkbox"/> YES <input type="checkbox"/> NO
¼ of ¼						<input type="checkbox"/> YES <input type="checkbox"/> NO
¼ of ¼						<input type="checkbox"/> YES <input type="checkbox"/> NO
¼ of ¼						<input type="checkbox"/> YES <input type="checkbox"/> NO
¼ of ¼						<input type="checkbox"/> YES <input type="checkbox"/> NO
¼ of ¼						<input type="checkbox"/> YES <input type="checkbox"/> NO
Total:						

*Please indicate if section is projected with a "(P)" following the section number.

See Attachment No. ____

8. PROJECT SCHEDULE See Attachment

- a. Project is:
 proposed. Year construction will begin: _____
 partially complete. Extent of completion: _____
- complete. Year completed: _____
- b. Year of first use: _____ Year water will be used to the full extent intended: _____

SECTION B: MISCELLANEOUS DIVERSION INFORMATION

1. JUSTIFICATION OF AMOUNTS REQUESTED

a. IRRIGATION: Maximum area to be irrigated in any one year: _____ acres.

CROP	ACRES	METHOD OF IRRIGATION (sprinklers, flooding, etc.)	WATER USE (Acre-feet/Yr.)	SEASON OF WATER USE	
				Beginning date (month & day)	Ending date (month & day)
See Attachment					

See Attachment No. _____

b. DOMESTIC: Number of residences to be served: _____ Separately owned? YES NO
 Number of people to be served: _____ Estimated daily use per person is: _____ gallons per day
 Area of domestic lawns and gardens: _____ square feet
 Incidental domestic uses: _____
(dust control area, number and kind of domestic animals, etc.)

c. STOCK WATERING: Kind of stock: _____ Maximum number: _____
 Describe type of operation: _____
(feedlot, dairy, range, etc.)

d. RECREATIONAL: Type of recreation: Fishing Swimming Boating Other _____

e. MUNICIPAL:

List for 5-year periods until use is completed	POPULATION			MAXIMUM MONTH		ANNUAL USE	
	Period	Population	Average daily use (gallons per capita)	Rate of diversion (cfs)	Average daily use (gallons per capita)	Acre-foot (per capita)	Total (acre-feet)
Present	470,000	248	180	147	0.17	77,600	
2000	612,000	232	220	139	0.16	95,500	
2010	723,800	223	250	135	0.15	109,300	
2020	837,700	220	285	131	0.15	123,000	

See Attachment No. _____

Month of maximum use during year: July Month of minimum use during year: February

f. HEAT CONTROL: Area to be heat controlled: _____ net acres
 Type of crops protected: _____
 Rate at which water is applied to use: _____ gpm per acre
 Heat protection season will begin _____ and end _____
(month & day) (month & day)

g. FROST PROTECTION: Area to be frost protected: _____ net acres
 Type of crops protected: _____
 Rate at which water is applied to use: _____ gpm per acre
 The frost protection season will begin _____ and end _____
(month & day) (month & day)

h. INDUSTRIAL: Type of industry: _____
 Basis for determination of amount of water needed: _____

i. MINING: Name of the claim: _____ Patented Unpatented
 Nature of the mine: _____ Mineral(s) to be mined: _____
 Type of milling or processing: _____
 After use, the water will be discharged into _____ (watercourse)
 in _____ 1/4 of _____ 1/4 of Section _____, T _____, R _____, _____ B. & M.

j. POWER: Total head to be utilized: _____ feet
 Maximum flow through the penstock: _____ cfs
 Maximum theoretical horsepower capable of being generated by the works (cfs x fall + 8.8): _____
 Electrical capacity (hp x 0.746 x efficiency): _____ kilowatts at: _____ % efficiency
 After use, the water will be discharged into _____ (watercourse)
 in _____ 1/4 of _____ 1/4 of Section _____, T _____, R _____, _____ B. & M. FERC No.: _____

k. FISH AND WILDLIFE PRESERVATION AND/OR ENHANCEMENT: List specific species and habitat type that will be preserved or enhanced in Item 7a of Section C.

l. OTHER: Describe use: Groundwater Recharge
 Basis for determination of amount of water needed: See Attached Underground Storage Supplement

2. DIVERSION AND DISTRIBUTION METHOD

a. Diversion will be by gravity by means of: _____
(dam, pipe in unobstructed channel, pipe through dam, siphon, weir, gate, etc.)

b. Diversion will be by pumping from: Sacramento River
(sump, offset well, channel, reservoir, etc)

Pump discharge rate: 286 cfs or gpd Horsepower: 18KHP Pump Efficiency: _____

c. Conduit from diversion point to first lateral or to offstream storage reservoir:

CONDUIT (pipe or channel)	MATERIAL (type of pipe or channel lining; indicate if pipe is buried or not)	CROSS-SECTION (pipe diameter, or ditch depth and top and bottom width) (inches or feet)	LENGTH (feet)	TOTAL LIFT OR FALL		CAPACITY (cfs, gpd or gpm)
				feet	+ or -	
Pipe	Steel	120"	82,500	115 [±]	+	350 cfs
Canal	Concrete Lined	20' - 88' - 28'	73,200	10 [±]	-	3500 cfs
Pipe	Steel	120"	74,700	190 [±]	+	350 cfs

See Attachment No. _____

d. Storage reservoirs: (For underground storage, complete and attach form APP-UGSTOR)

RESERVOIR NAME OR NUMBER	DAM				RESERVOIR		
	Vertical height from downstream toe of slope to spillway level (feet)	Construction material	Length (feet)	Freeboard: dam height above spillway crest (feet)	Surface area when full (acres)	Capacity (acre-feet)	Maximum water depth (feet)
See Attachment							

See Attachment No. _____

e. Outlet pipe: Complete for storage reservoirs having a capacity of 10 acre-feet or more.

RESERVOIR NAME OR NUMBER	OUTLET PIPE				
	Diameter (inches)	Length (feet)	Fall: vertical distance between entrance and exit of outlet pipe (feet)	Head: vertical distance from spillway to entrance of outlet pipe (feet)	Dead Storage: storage below entrance of outlet pipe (acre-feet)
	To be determined	during design			

See Attachment No. _____

f. If water will be stored and the reservoir is not at the point of diversion, the maximum rate of diversion to off-stream storage will be _____ cfs. Diversion to offstream storage will be made by: Pumping Gravity

3. CONSERVATION AND MONITORING

a. What methods will you use to conserve water? Explain. Conveyance of water to the point of Diversion on the Sacramento River to the place of use and to the offstream storage reservoir will be by pipeline and concrete lined canal.

b. How will you monitor your diversion to be sure you are within the limits of your water right and you are not wasting water? Weir Meter Periodic sampling Other (describe) Pumping facilities on the Sacramento River will be metered and monitored.

4. RIGHT OF ACCESS

a. Does the applicant own all the land where the water will be diverted, transported and used? YES NO
 If NO, I do do not have a recorded easement or written authorization allowing me access.

b. List the names and mailing addresses of all affected landowners and state what steps are being taken to obtain access: The County will enter into negotiation with the Freeport Regional Water Authority for use of existing facilities and facilities contemplated for diversion of water from Sacramento River at Freeport.

See Attachment No. _____

5. EXISTING WATER RIGHTS AND RELATED FILINGS

a. Do you claim an existing right for the use of all or part of the water sought by this application? YES NO
 If YES, please specify: Riparian Pre-1914 Registration Permit License
 Percolating groundwater Adjudicated Other (specify) _____

b. For each existing right claimed, state the source, year of first use, purpose, season and location of the point of diversion (to within quarter-quarter section). Include number of registration, permit, license, or statement of

water diversion and use, if applicable. _____

- c. List any related applications, registrations, permits, or licenses located in the proposed place of use or that utilize the same point(s) of diversion? Names and addresses of numerous diverters unknown to applicant.
 See Attachment No. _____

6. OTHER SOURCES OF WATER

Are you presently using, or do you intend to use, purchased water or water supplied by contract in connection with this project? Yes No If yes, please explain: _____

7. MAP REQUIREMENTS

The Division cannot process your application without accurate information showing the source of water and location of water use. You must include a map with this application form that clearly indicates the township, range, section and quarter/quarter section of (1) the proposed points of diversion and (2) the place of use. A copy of a U.S.G.S. quadrangle/topographic map of your project area is preferred, and can be obtained from sporting goods stores or through the Internet at <http://topomaps.usgs.gov>. A certified engineering map is required when (1) appropriating more than three cfs by direct diversion, (2) constructing a dam which will be under the jurisdiction of the Division of Safety of Dams, (3) creating a reservoir with a surface area in excess of ten acres or (4) appropriating more than 1000 acre-feet per annum by underground storage. See the instruction booklet for more information.
 See Attachment No. _____

SECTION C: ENVIRONMENTAL INFORMATION

Note: Before a water right permit may be issued for your project, the State Water Resources Control Board (SWRCB) must consider the information contained in an environmental document prepared in compliance with the California Environmental Quality Act (CEQA). This form is not a CEQA document. If a CEQA document has not yet been prepared for your project, a determination must be made of who is responsible for its preparation. If the SWRCB is determined to be responsible for preparing the CEQA document, the applicant will be required to pay all costs associated with the environmental evaluation and preparation of the required documents. Please answer the following questions to the best of your ability and submit with this application any studies that have been conducted regarding the environmental evaluation of your project.

1. COUNTY PERMITS

- a. Contact your county planning or public works department and provide the following information:

Person contacted: Mel Lytle Date of contact: 2007
 Department: Public Works Telephone: (209) 468-3089
 County Zoning Designation: _____

Are any county permits required for your project? YES NO If YES, check appropriate box below:
 Grading permit Use permit Watercourse Obstruction permit Change of zoning
 General plan change Other (explain): Encroachment permit

- b. Have you obtained any of the required permits described above? YES NO
 If YES, provide a complete copy of each permit obtained.
 See Attachment No. _____

2. STATE/FEDERAL PERMITS AND REQUIREMENTS

- a. Check any additional state or federal permits required for your project:

Federal Energy Regulatory Commission U.S. Forest Service U.S. Bureau of Land Management
 U.S. Corps of Engineers U.S. Natural Res. Conservation Service Calif. Dept. of Fish and Game
 State Lands Commission Calif. Dept. of Water Resources (Div. of Safety of Dams)
 Calif. Coastal Commission State Reclamation Board Other (specify) _____

- b. For each agency from which a permit is required, provide the following information:

AGENCY	PERMIT TYPE	PERSON(S) CONTACTED	CONTACT DATE	TELEPHONE NO.
USACE	404			
CDFG	1601			
DSOD	Plan approval			

See Attachment No. _____

- c. Does your proposed project involve any construction or grading-related activity that has significantly altered or would significantly alter the bed, bank, or riparian habitat of any stream or lake? YES NO

If YES, explain: The proposed project will involve construction that will alter the bed, bank or riparian habitat of a stream. A Streambed Alteration Agreement with the Department of Fish & Game will be required.

See Attachment No. ____

- d. Have you contacted the California Department of Fish and Game concerning your project? YES NO
If YES, name and telephone number of contact: _____

3. ENVIRONMENTAL DOCUMENTS

- a. Has any California public agency prepared an environmental document for your project? YES NO

c. If YES, submit a copy of the latest environmental document(s) prepared, including a copy of the notice of determination adopted by the California public agency. Public agency: _____

- d. If NO, check the appropriate box and explain below, if necessary:

The applicant is a California public agency and will be preparing the environmental document.*

I expect that the SWRCB will be preparing the environmental document.**

I expect that a California public agency other than the State Water Resources Control Board will be preparing the environmental document.* Public agency: _____

See Attachment No. ____

* Note: When completed, submit a copy of the final environmental document (including notice of determination) or notice of exemption to the SWRCB, Division of Water Rights. Processing of your application cannot proceed until these documents are submitted.

** Note: CEQA requires that the SWRCB, as Lead Agency, prepare the environmental document. The information contained in the environmental document must be developed by the applicant and at the applicant's expense under the direction of the SWRCB, Division of Water Rights.

4. WASTE/WASTEWATER

- a. Will your project, during construction or operation, (1) generate waste or wastewater containing such things as sewage, industrial chemicals, metals, or agricultural chemicals, or (2) cause erosion, turbidity or sedimentation? YES NO

If YES, or you are unsure of your answer, explain below and contact your local Regional Water Quality Control Board for the following information (See instruction booklet for address and telephone no.):

Waste water will be treated at the treatment plants operated by the various municipalities; in addition there will be a small amount of irrigation return flow.

See Attachment No. ____

- b. Will a waste discharge permit be required for your project? YES NO

Person contacted: _____ Date of contact: _____

- c. What method of treatment and disposal will be used? _____

See Attachment No. ____

5. ARCHEOLOGY

- a. Have any archeological reports been prepared on this project? YES NO

- b. Will you be preparing an archeological report to satisfy another public agency? YES NO

- c. Do you know of any archeological or historic sites located within the general project area? YES NO

If YES, explain: _____

See Attachment No. ____

6. ENVIRONMENTAL SETTING

Attach three complete sets of color photographs, clearly dated and labeled, showing the vegetation that exists at the following three locations:

Along the stream channel immediately downstream from the proposed point(s) of diversion.

Along the stream channel immediately upstream from the proposed point(s) of diversion.

At the place(s) where the water is to be used.

See Attachment No. ____

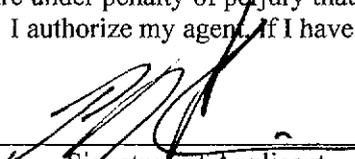
SECTION D: SUBMITTAL FEES

Calculate your application filing fee using the "Water Right Fee Schedule Summary" that was enclosed in the application packet. The "Water Right Fee Schedule Summary" can also be viewed at the Division of Water Rights' website (www.waterrights.ca.gov).

A check for the application filing fee, payable to the "Division of Water Rights" and an \$850 check for the environmental review fee, payable to the "California Department of Fish and Game," must accompany this application. All applicable fees are required at the time of filing. Your application will be returned to you if it is not accompanied by all required fees.

SECTION E: DECLARATION AND SIGNATURE

I declare under penalty of perjury that all information provided is true and correct to the best of my knowledge and belief. I authorize my agent, if I have designated one above, to act on my behalf regarding this water right application.


Signature of Applicant
Mr. Thomas R. Flinn

Director of Public Works
Title or Relationship

10/9/07
Date

Signature of Co-Applicant (if any)

Title or Relationship

Date



"APPLICATION TO APPROPRIATE WATER" CHECKLIST

Before you submit your application, be sure to:

- Answer each question completely in Sections A, B, and C.
- Number and include all necessary attachments.
- Include a legible map that meets the requirements discussed in the instruction booklet (Item B6).
- Include the Water Availability Analysis or sufficient information to demonstrate that there is reasonable likelihood that unappropriated water is available for the proposed appropriation (Item A6).
- Include three complete sets of color photographs of the project site (Item C6).
- Enclose a check for the required fee, payable to the Division of Water Rights, as specified in Section D.
- Enclose a \$850 check for the environmental review fee, payable to the Department of Fish and Game, as specified in Section D.
- Sign and date the application in Section E.

Send the original and one copy of the entire application to:

State Water Resources Control Board
Division of Water Rights
P.O. Box 2000
Sacramento, CA 95812-2000

Attachment to 3rd Amended Application 29657
October 2007

SECTION A

3. PROJECT DESCRIPTION

Past efforts by entities within San Joaquin County to obtain water supplies from streams within the County have been denied and both the State and Federal agencies have repeatedly directed the County to the American River as the source for meeting its supplemental water requirements. Under this application the County asserts its priority to use water under Water Code Section 11460.

This amended application to appropriate water available at the original South Fork American River point of diversion and diverted from the Sacramento River at Freeport is to develop a conjunctive use of the flows in excess of those required to meet downstream needs. With the County's ability to store water in an offstream reservoir and use the available groundwater supplies, it will be possible for diversions to be reduced or eliminated in dry and critical years.

5a. SOURCES AND POINTS OF DIVERSION/REDIVERSION

The Source and Points of Diversion named in the original application were:

1. American River
2. Laguna Creek
3. South Fork American River
4. Deer Creek

It is the intent of this amended application to abandon all of the foregoing points of diversion in favor of a single point of diversion on the Sacramento River which will coincide with the diversion facilities being constructed by the Freeport Regional Water Authority¹ in connection with its Freeport Regional Water Project.

In moving the point of diversion from the American River to the Sacramento River, the applicant has prepared a water availability study to assure that the diversions from the Sacramento River do not exceed the amounts of water that would otherwise be obtainable by it at the original Point of Diversion #3 on the South Fork American River.

The projects on Laguna and Deer Creeks will be abandoned.

The source of water pursuant to this amended application is still the American River with diversions to occur from the Sacramento River at the Freeport diversion facility.

¹ East Bay Municipal Utilities District and the County of Sacramento

5b. POINTS OF DIVERSION AND REDIVERSION

<u>Map Point Designation</u>	<u>Description</u>
# 6	Freeport Diversion - Point of Direct Diversion, Point of Diversion to Offstream Storage at Point #5 (Duck Creek Reservoir), and Point of Direct Diversion to Underground Storage (see attached Underground Storage Supplement): Located N. 720,100 & E. 1,711,500 of the California Coordinate System, Zone 3 and being within the NW1/4 of the SE1/4 of Section 11, T.7N., R.4E., MDB & M
#5	Duck Creek Reservoir: Point of Rediversion & Point of Storage for Water Diverted at Point #6 (Freeport Diversion): Located N. 581,100 & E. 1,860,000 of the California Coordinate System, Zone 3 and being within the NW1/4 of the SE1/4 of Section 21, T.3N., R.9E., MDB & M <u>Various Points of Rediversion for Water Diverted at Point #6 (Freeport Diversion) Located Between Points #3(a) & #3(b) (Mokelumne River), Between Points #4(a) & #4(b) (Calaveras River & Morman Slough) and Between Points #7(a) and #7(b) (Bear Creek).</u>
3(a)	Intersection of Folsom South Canal - Duck Creek Reservoir Pipeline and Mokelumne River: Point of Rediversion to Groundwater Storage: Located N. 627,600 & E. 1,846,300 of the California Coordinate System, Zone 3 and being within the SE1/4 of the SW1/4 of Section 6, T.4N., R.9E., MDB & M
3(b)	Intersection of Mokelumne River and Interstate 5: Point of Rediversion to Groundwater Storage: Located N. 640,500 & E. 1,728,100 of the California Coordinate System, Zone 3 and being within the SE1/4 of the NE1/4 of Section 29, T.5N., R.5E., MDB & M
#4(a)	Bellota Weir: Point of Rediversion to Groundwater Storage: Located N. 565,500 & E. 1,852,800 of the California Coordinate System, Zone 3 and being within the NE1/4 of the SW1/4 of Section 5, T.2N., R.9E., MDB & M
#4(b)	Intersection of Stockton Diverting Canal and Calaveras River: Point of Rediversion to Groundwater Storage: Located N.545,100& E.1,775,400 of the California Coordinate System, Zone 3 and being within the NW1/4 of the SE1/4 of projected Section 29, of Campo de Los Franceses

Map Point
Designation

Description

- #7(a) **Intersection of Folsom South Canal - Duck Creek Reservoir Pipeline and Bear Creek: Point of Rediversion to Groundwater Storage:** Located N. 618,300 & E. 1,851,500 of the California Coordinate System, Zone 3 and being within the NW1/4 of the SW1/4 of Section 17, T.4N., R.9E., MDB & M
- #7(b) **Intersection of Bear Creek and Interstate 5: Point of Rediversion to Groundwater Storage:** Located N. 563,150 & E. 1,750,300 of the California Coordinate System, Zone 3 and being within the NW1/4 of the NW1/4 of projected Section 7, T.2N., R.6E., MDB & M
- #8(a) **Intersection of Mosher Creek and Calaveras River: Point of Rediversion to Groundwater Storage:** Located N. 565,200 & E. 1,835,400 of the California Coordinate System, Zone 3 and being within the NE1/4 of the SW1/4 of Section 2, T.2N., R.8E., MDB & M
- #8(b) **Intersection of Mosher Slough and Interstate 5: Point of Rediversion to Groundwater Storage:** Located N. 559,200 & E. 1,751,400 of the California Coordinate System, Zone 3 and being within the NE1/4 of the SW1/4 of Section 7, T.2N., R.6E., MDB & M

Map Point
Designation

Description

Points of Rediversion to Groundwater Storage on Mokelumne River
Located Between Points #3(a) & #3(b)

- MR-01 **North San Joaquin County Water Conservation District North Pump Station:** Located N. 608,350 & E. 1,806,750 of the California Coordinate System, Zone 3 and being within the SE1/4 of the NE1/4 of Section 26, T.4N., R.7E., MDB & M
- MR-02 **North San Joaquin County Water Conservation District South Pump Station:** Located N. 602,950 & E. 1,804,400 of the California Coordinate System, Zone 3 and being within the NE1/4 of the SW1/4 of Section 35, T.4N., R.7E., MDB & M
- MR-03 **Nakagawa Diversion:** Located N. 603,400 & E. 1,793,900 of the California Coordinate System, Zone 3 and being within the SE1/4 of the NW1/4 of Section 33, T.4N., R.7E., MDB & M
- MR-04 **Woodbridge Irrigation District Diversion Dam:** Located N. 604,000 & E. 1,771,000 of the California Coordinate System, Zone 3 and being within the SW1/4 of the NW1/4 of Section 35, T.2N., R.6E., MDB & M

Points of Rediversion to Groundwater Storage on Calaveras River
Located Between Points #4(a) & #4(b)

- CR-01 **Calaveras River Headgates:** Located N. 566,100 & E. 1,852,300 of the California Coordinate System, Zone 3 and being within the SW1/4 of the NW1/4 of Section 5, T.2N., R.9E., MDB & M
- CR-02 **Gotelli Dam:** Located N. 566,750 & E. 1,850,850 of the California Coordinate System, Zone 3 and being within the SE1/4 of the NE1/4 of Section 6, T.2N., R.9E., MDB & M
- CR-03 **Clements Dam:** Located N. 563,500 & E. 1,834,000 of the California Coordinate System, Zone 3 and being within the SW1/4 of the SW1/4 of Section 2, T.2N., R.8E., MDB & M
- CR-04 **Tully Dam:** Located N. 572,100 & E. 1,821,300 of the California Coordinate System, Zone 3 and being within the SW1/4 of the NE1/4 of Section 32, T.3N., R.8E., MDB & M

Map Point
Designation

Description

- CR-05 **Eight Mile Dam:** Located N. 569,300 & E. 1,809,600 of the California Coordinate System, Zone 3 and being within the SE1/4 of the SW1/4 of Section 36, T.3N., R.7E., MDB & M
- CR-06 **Murphy Dam:** Located N. 565,800 & E. 1,800,600 of the California Coordinate System, Zone 3 and being within the SW1/4 of the NE1/4 of Section 3, T.2N., R.7E., MDB & M
- CR-07 **Pezzi Dam:** Located N. 564,000 & E. 1,800,400 of the California Coordinate System, Zone 3 and being within the SW1/4 of the SE1/4 of Section 3, T.2N., R.7E., MDB & M
- CR-08 **Solari Dam:** Located N. 554,900 & E. 1,790,400 of the California Coordinate System, Zone 3 and being within the SW1/4 of the NE1/4 of Section 71, of Campo de Los Franceses
- CR-09 **Cherryland Dam:** Located N. 549,900 & E. 1,783,900 of the California Coordinate System, Zone 3 and being within the NE1/4 of the NE1/4 of Section 52 of Campo de Los Franceses
- CR-10 **McAllen Dam:** Located N. 547,300 & E. 1,778,700 of the California Coordinate System, Zone 3 and being within the SW1/4 of the NE1/4 of Section 41, of Campo de Los Franceses
- Points of Rediversion to Groundwater Storage on Mormon Slough Located
Between Points # 4(a) & #4(b)
- MS-01 **Bellota Weir:** Located N. 565,500 & E. 1,852,800 of the California Coordinate System, Zone 3 and being within the NE1/4 of the SW1/4 of Section 5, T.2N., R.9E., MBD & M
- MS-02 **#3 Footbridge on Hwy. 26:** Located N. 561,050 & E. 1,846,350 of the California Coordinate System, Zone 3 and being within the SE1/4 of the NW1/4 of Section 7, T.2N., R.9E., MDB & M
- MS-03 **Fine Road Dam:** Located N. 557,200 & E. 1,841,800 of the California Coordinate System, Zone 3 and being within the NE1/4 of the NW1/4 of Section 13, T.2N., R.8E., MDB & M

<u>Map Point Designation</u>	<u>Description</u>
MS-04	Avansino Dam: Located N. 554,100 & E. 1,838,300 of the California Coordinate System, Zone 3 and being within the NE1/4 of the SE1/4 of Section 14, T.2N., R.8E., MDB & M
MS-05	Hosie Dam: Located N. 549,900 & E. 1,836,000 of the California Coordinate System, Zone 3 and being within the NE1/4 of the SW1/4 of Section 23, T.2N., R.8E., MDB & M
MS-06	Bonomo Dam: Located N. 545,400 & E. 1,833,500 of the California Coordinate System, Zone 3 and being within the SE1/4 of the NE1/4 of Section 27, T.2N., R.8E., MDB & M
MS-07	Piazza Dam: Located N. 541,400 & E. 1,830,500 of the California Coordinate System, Zone 3 and being within the NE1/4 of the NW1/4 of Section 34, T.2N., R.8E., MDB & M
MS-08	Prato Dam: Located N. 538,300 & E. 1,825,800 of the California Coordinate System, Zone 3 and being within the NE1/4 of the SW1/4 of Section 33, T.2N., R.8E., MDB & M
MS-09	McClellan Dam: Located N. 534,800 & E. 1,818,400 of the California Coordinate System, Zone 3 and being within the SW1/4 of the NW1/4 of Section 5, T.1N., R.8E., MDB & M
MS-10	Lavaggi Dam: Located N. 533,800 & E. 1,811,700 of the California Coordinate System, Zone 3 and being within the SW1/4 of the NE1/4 of Projected Section 1, T.1N., R.7E., MDB & M
MS-11	Panella Dam: Located N. 532,500 & E. 1,807,000 of the California Coordinate System, Zone 3 and being within the SE1/4 of the NW1/4 of Projected Section 94, of Campo de Los Franceses
MS-12	Main Street Dam: Located N. 532,500 & E. 1,798,200 of the California Coordinate System, Zone 3 and being within the NW1/4 of the SE1/4 of Section 76, of Campo de Los Franceses
MS-13	Budiselich Dam: Located N. 539,900 & E. 1,785,100 of the California Coordinate System, Zone 3 and being within the NE1/4 of the NW1/4 of Section 54, of Campo De Los Franceses

Map Point
Designation

Description

Point of Rediversion to Groundwater Storage on Mosher Creek Located
Between Points #8(a) & #8(b)

MC-01	Mosher Creek Headgate: Located N. 565,200 & E. 1,835,400 of the California Coordinate System, Zone 3 and being within the NE1/4 of the SW1/4 of Section 2, T.2N., R.8E., MDB & M
MC-02	Rip-Rap Dam: Located N. 573,000 & E. 1,821,400 of the California Coordinate System, Zone 3 and being within the NW1/4 of the NE1/4 of Section 32, T.3N., R.8E., MDB & M
MC-03	Lyons Dam: Located N. 574,000 & E. 1,808,600 of the California Coordinate System, Zone 3 and being within the SW1/4 of the SW1/4 of Section 25, T.3N., R.7E., MDB & M
MC-04	Cortopassi Dam #1: Located N. 572,800 & E. 1,798,300 of the California Coordinate System, Zone 3 and being within the NW1/4 of the NW1/4 of Section 34, T.3N., R.7E., MDB & M
MC-05	Cortopassi Dam #2: Located N. 572,000 & E. 1,797,300 of the California Coordinate System, Zone 3 and being within the SW1/4 of the NW1/4 of Section 34, T.3N., R.7E., MDB & M
MC-06	Cotta-Ferreira Dam: Located N. 568,200 & E. 1,794,500 of the California Coordinate System, Zone 3 and being within the SW1/4 of the SE1/4 of Section 33, T.3N., R.7E., MDB & M
MC-07	Leffler Crossing Dam: Located N. 566,700 & E. 1,788,800 of the California Coordinate System, Zone 3 and being with the NE1/4 of the NW1/4 of Section 5, T.2N., R.7E., MDB & M
MC-08	Quashnick Dam: Located N. 563,200 & E. 1,784,600 of the California Coordinate System, Zone 3 and being within the SW1/4 of the SE1/4 of Section 6, T.2N., R.7E., MDB & M

6a. WATER AVAILABILITY

The South Fork American River Water Availability Study was submitted September 4, 2003. See files of the State Water Resources Control Board.

7. PLACE OF USE

Water will be used on land located within the special districts and other areas within the San Joaquin County Flood Control and Water Conservation District. The service area (see accompanying map) will consist of a gross area of 399,700 acres within the following townships:

<u>Township</u>	<u>Range</u>
1 South	6, 7, 8, 9 East
2 South	6, 7 East
1 North	5, 6, 7, 8, 9 East
2 North	5, 6, 7, 8, 9 East
3 North	5, 6, 7, 8, 9 East
4 North	5, 6, 7, 8 East
5 North	5, 6, 7, 8 East

8. PROJECT SCHEDULE

Diversion and conveyance facilities under construction by Freeport Regional Water Authority estimated to be completed within five years of issuance of Permit under this Application.

Storage facility (Duck Creek Dam and Reservoir) to be constructed by Mokelumne River Water and Power Authority estimated to be completed within five years of issuance of Permit pursuant to pending Application 29835.

Most of the service area is developed to irrigated agriculture or urban uses. Conveyance systems are in place but some additions will be required. Although most, if not all, of the water can be immediately placed to beneficial use, it will take until the year 2020 for full municipal use.

SECTION B

1 a. JUSTIFICATION OF AMOUNT

Almost all the irrigable lands within the County's service area are currently developed to a variety of crops including truck crops, orchards of nuts and fruits, vineyards, row crops, alfalfa and pasture. The following table identifies the irrigated areas with the various portions of the service area for the year 2015, together with the weighted average water requirement.

<u>Areas</u>	<u>Irrigable Acreage</u>	<u>Weighted Average Demand</u>	<u>Total Demand</u>	<u>Conveyance Efficiency</u>	<u>Total Requirement</u>
	(Ac.)	(AF/Ac.)	(AF)	(%)	(AF)
North San Joaquin W.C.D.	39,900	2.84	113,300	90	125,900
Woodbridge Area	27,700	3.01	83,400	90	92,700
Stockton East W.D.	56,920	3.28	186,700	90	207,400
Central San Joaquin W.C.D.	59,740	3.10	185,200	90	205,800
San Joaquin County F.C. & W.C.D.					
Area 1	6,530	2.95	19,300	90	21,400
Area 2	4,840	2.88	13,900	90	15,400
Area 3	6,290	2.91	18,300	90	20,300
Area 4	1,690	2.98	5,000	90	5,600
Area 5	<u>4,840</u>	2.86	<u>13,800</u>	90	<u>15,300</u>
Total	208,450		638,900		709,800

Reservoir name	DAM				RESERVOIR		
	Vertical height from downstream toe of slope to spillway level (feet)	Construction material	Length (feet)	Freeboard: dam height above spillway crest (feet)	Surface area when full (acres)	Capacity (ac-ft)	Maximum water depth (feet)
Duck Creek (Point of Rediversion No. 5)	Main Dam 129' Dikes 5' - 40'	earth and rock dam	6,000' 20,900'	15'	3,850'	150,000	118'