STATE OF CALIFORNIA STATE WATER RESOURCES CONTROL BOARD **DIVISION OF WATER RIGHTS**

Report of Pre-License Inspection

FILING DATA

APPLICATION NO.: 12842

FILING DATE: 12-2-1948

NAME

: North San Joaquin Water Conservation District

ADDRESS

: PO Box 428, Clements, CA 95227 (as shown in WRIMS)

SOURCE

: Mokelumne River tributary to San Joaquin River

PTS. OF DIV.

Camanche Reservoir - SE1/4 of SE1/4 of Section 6, T4N, R9E, MDB&M

Direct Diversion and Rediversion

North Pumping Plant - NE1/4 of SE1/4 of Section 26, T4N, R7E, MDB&M South Pumping Plant - NW1/4 of SW1/4 of Section 35, T4W, R7E, MDB&M

COUNTY

: San Joaquin

AMOUNT

: 80 cfs direct diversion (max. 40 cfs at any one pumping facility)

20,000 acre-feet storage 20,000 AFA taken from source

PURPOSE

: Municipal, Domestic, Industrial, Irrigation and Recreational uses

SEASON

: Direct Diversion and Storage - December 1 to July 1 Taken from Source - October 1 to September 30

PLACE OF USE: Municipal, Domestic, Industrial uses, and Irrigation of 45,000 net acres within gross area of 52,000

acres within the NSJWCD's service area, and Recreational use at Camanche Reservoir

AMENDED PERMIT NO.: 10477

DATE ISSUED: 12-11-1992

EXPIRES: 12-31-2000

Date of Inspection:

2-2-2006

Inspected By (signature/submit date): Steve Marquez

Accompanied By:

Rich Satkowski, Licensing Unit Chief

Telephone:

(916) 341-5439 (916) 341-5360

Person(s) Interviewed: Ed Steffani, District General Manager

Kate Gaffney, Division Staff

Telephone:

(209) 727-0207 (home)

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C.L. Weinzheimer, Jr., District Watermaster

(209) 368-4385 (home) (209) 333-7473 (work)

Fred Weybert, District President

(209) 369-2761 (work)

RECOMMENDATIONS

License (after compliance with bypass agreement and fish screen terms and submittal of revised E-map): X

Corrections: X

Address: X POD: X

Amount: X

Purpose: X POU: X

Terms: X

E-Map: X

Remarks: (explain basis for recommendations)

A Petition for Extension of Time was submitted by the NSJWCD on 12-29-2000. A Petition to Add a Point of Diversion and a Place of Underground Storage was submitted by the NSJWCD on 5-13-2004. The latter petition is for the proposed North San Joaquin Pilot Recharge Project funded by a Cal-Fed Conjunctive Use Grant Application, dated March 2000, and revised 9-2-2003.

> 2006 2nd Inspection

WR-8 p. 18-35 06

This license recommendation is based on the pre-license inspection conducted on 2-2-2006 and reported beneficial use of water from Amended Permit 10477 issuance date (12-11-1992) to permit expiration date (12-31-2000):

Owner:

North San Joaquin Water Conservation District

Address:

Correct WRIMS to: 221 W. Pine St. Lodi, CA 95240

Source:

As permitted.

Point of Diversion and Place of Storage:

(1) Camanche Dam and Reservoir (Retain permit ties to be consistent with A013156): South 41° 33' West, 1,842 feet from E½ corner of Section 6, T4N, R9E, MDB&M, being within SE½ of SE½ of said Section 6.

Point of Diversion and Rediversion:

(2) North Pumping Plant (GPS point taken at north pump facility. Mokelumne River was inaccessible and 400' was added to East coordinate to obtain POD on Mokelumne River) California Coordinates System of 1927, Zone 3, North 608,300 feet and East 1,807,144 feet, being within the NE¼ of SE¼ of Section 26, T4N, R7E, MDB&M.

Point of Diversion and Rediversion:

(3) South Pumping Plant (GPS point at confluence of Mokelumne River and south pump canal):

California Coordinates System of 1927, Zone 3, North 602,799 feet and East 1,803,349 feet, being within the NW¼ of SW¼ of Section 35, T4N, R7E, MDB&M.

Point of Diversion To Underground Storage (4) GPS point taken at electrical pole near Mokelumne River (POD may be added at time of licensing or added by State Water Board Order) California Coordinates System of 1927, Zone 3, North 603,222 feet and East 1,793,899 feet, being within the SE½ of NW¼ of Section 33, T4N, R7E, MDB&M.

Amount:

See Attachment No. 1 for detail:

During permit period (12-11-1992 to 12-31-2000) 14.4 cubic feet per second (cfs) by direct diversion,

2,110 acre-feet per annum (AFA) by surface storage (1000 AFA by underground storage

may be deducted from this amount by State Water Board Order),

3,200 AFA taken from the source (direct diversion plus collection to storage),

3,200 AFA used (direct diversion plus withdrawal from storage).

Purpose:

Correct to:

Irrigation use. If NSJWCD's Change Petition is approved, the Change Petition will add underground storage with subsequent application to Irrigation, Water Quality and Fish and Wildlife Preservation and Enhancement uses.

Season:

Direct Diversion, Surface Storage - December 1 to July 1.

POU:

A revised E-map is required to be submitted prior to licensing to adequately show the reported 680 acres of irrigation. As such, the pending E-map, correct license POU description as follows:

A portion of the North San Joaquin Water Conservation District Service Area consisting of 680 acres within Townships 3 and 4 North, Ranges 6, 7 and 8 East, all within MDB&M, as shown on map filed with the State Water Board dated XXXX.

If the State Water Board approves NSJWCD's Change Petition for the North San Joaquin Pilot Recharge Project (Project), the Point of Diversion to Underground Storage, the Point of Return of Water Extracted from Underground Storage, and the Place of Underground Storage may be added to the water right license. However, since the Project is a pilot project and not a full scale recharge project, it is recommended to separate the Project from the draft license. This will avoid any future amendments to the final license.

2006 2nd Inspection Terms:

Permittee is in violation of Permit Terms 15 and 23. See Permit Terms section on page 5.

Recommend that Term 30-Maps for Larger Projects be added during licensing.

E-Map:

Revised E-map with mylar in accordance with Water Code Section 715 to 717 is required to be submitted. Specifically, the E-map must have the corrected NSJWCD service area boundary, points of diversion and rediversion coordinates for both the North and South Pumping plants, conduit layouts, rediversion points into Pixley Slough and Bear Creek, and reported 680 acres of irrigated place of use.

If State Water Board approves the NSJWCD's Change Petition prior to licensing, the revised E-map for licensing should incorporate the point of diversion and place of underground storage for the proposed pilot groundwater recharge and extraction project.

SOURCE

Name: Mokelumne River

Tributary to: San Joaquin River **Flow at time of inspection:** 1590 cfs

How and where determined? Reported on 9-12-2006 in the California Data Exchange Center (http://cdec.water.ca.gov)

as Camanche Reservoir outflow for 2-2-2006.

Who measures flow? East Bay Municipal Utility District. No direct flow measurement taken at NSJWCD's North or South

pumping plants.

Is water supply natural? Yes.

POINTS OF DIVERSION (POD)

Are PODs described correctly in Permit or Order?

(1) Off slightly, use Permit ties Camanche Dam (GPS point at base of Camanche Dam, recommend not using GPS point

since point not on actual dam and permit ties are correct)

California Coordinates System of 1927, Zone 3, North 628,414 feet, East 1,849,709 feet

(2) Off slightly

North Pump at Mokelumne River

(GPS point taken at north pump facility. Mokelumne River was inaccessible and 400' was

added to East coordinate to obtain POD on Mokelumne River)

California Coordinates System of 1927, Zone 3, North 608,300 feet, East 1,807,144 feet

(3) Off slightly

South Pump at Mokelumne River

(GPS point of diversion at confluence of Mokelumne River and south pump canal)
California Coordinates System of 1927, Zone 3, North 602,799 feet, East 1,803,349 feet

(4) May be added by Order at time of licensing POD to Underground Storage

(GPS point at electrical pole near Mokelumne River by Division staff)

California Coordinates System of 1927, Zone 3, North 603,222 feet, East 1,793,899 feet

NSJWCD's POD to Underground Storage coordinates (submitted on Petition E-map) are as

follows:

California Coordinates System of 1927, Zone 3, North 603,200 feet, East 1,793,790 feet

(5) May be added by Order at time of licensing Point of Return of Water Extracted from Underground Storage (Information coming from

by Order at time Permittee for Petition)

Is Petition for Change or correction required? (explain): Yes, correction required to PODs No. 1 and 2. South Pumping Plant, POD No. 3 contained an error on Township direction. The correct township is: 4 West. NSJWCD's Change Petition to add another POD is pending.

Would change cause any injury? Not known, but unlikely if only correction is required.

2006 2nd Inspection Owner of land at PODs: Other Parties.

Assessor's Parcel No.: North Pump facility APN: 017-025-007, South Pump facility APN: 051-016-012

Type of access: Unknown.

DIVERSION SYSTEM

Is diversion system complete? Yes. Underground storage pilot project is unconstructed.

If not, what remains to be done? Not applicable

Capacity of the limiting section (reservoir capacity, flow in pipe, etc.)? 141 cfs combined capacity, as calculated in the 1st Pre-License Inspection Report, for the North and South Pumping Plants. The pumps have not been replaced except for one 100-HP pump located at the South Pumping Plant. Conversation with NSJWCD staff indicated that the pump test efficiencies conducted by PG&E in the past are now considerably lower. No recent pump capacity data was given to Division staff during this inspection. The pump data (James F. Sorensen & Dennis R. Keller Consulting Engineers pump data letter, dated 10-18-1983) indicated the pumping capacity to be a combined 81.5 cfs (North = 37.4 cfs and South = 44.1 cfs).

Camanche Reservoir capacity = 417,120 AF, as reported on 9-12-2006 in EBMUD's web site: http://www.ebmud.com/water & environment/water_supply/daily_reports/default.htm

PLACE OF USE (POU)

Name of POU, if commonly known as such: North San Joaquin Water Conservation District

Describe any changes/corrections from the POU as described in the Permit or Order: No E-map mylar was found in Division's map room. A revised E-map with mylar in accordance with California Code of Regulations, Title 23, Sections 715 to 717 is required to be submitted. The paper E-map on file, dated 5-28-1982, requires correction to the NSJWCD service area boundary, POD coordinates, and the addition of the reported irrigated area of 680 acres. Also, recommend that the proposed new POD and Place of Underground Storage be added and submitted with the revised E-map, if approved by Order. Term 30-Maps for Larger Projects should be added to the recommended license.

Is a Petition for Change/correction required? (explain): Yes, correct during licensing after receipt of revised E-map and compliance with Terms 15 and 23.

Is POU developed to where full beneficial uses of water may be made? (explain): No, permittee has not fully developed project. Current irrigated area was reported at 680 acres per NSJWCD's letter, dated February 28, 2006. Irrigated acreage has steadily declined since the 1972-73 water year in which 9,500 acres were reportedly irrigated. Does it appear that development has been pursued with due diligence? (explain): Questionable, permittee has requested and EBMUD has stored the full amount, 20,000 AFA, under Permit 10477 from EBMUD in seven of the eight years (1993 to 2000); however, NSJWCD has failed to utilize the full allotment. The maximum annual amount used during the permit period has been 3,198 AFA during the 1993 diversion season. Permittee, in conjunction with other water suppliers in the San Joaquin area, have conducted pilot studies on groundwater recharge to help the overdraft groundwater conditions within the San Joaquin County area, but have not fully utilized this water right.

Owner of land at place of use: Other Parties, NSJWCD customers

Assessor's Parcel No.: N/A.

Acreage: N/A..

Type of arrangement, if not owned by permittee: Assumed to be NSJWCD contracted customers.

MAJOR USES OF WATER

Diversion Works and Water Application Method: Water is stored in Camanche Reservoir under Water Code Section 1462 (temporary appropriation of surplus water) and released by NSJWCD's agreement with East Bay Municipal Utility District (EBMUD). Water is thence diverted by two downstream location points. The water is thence pumped to ditches, pipelines and creeks for distribution to NSJWCD's customers for the irrigation of a reported 680 acres. NSJWCD has not reported Municipal, Domestic, Industrial or Recreational uses.

Major Use(s) of water: Major use of water is to irrigate a reported 680 acres within the NSJWCD service area boundaries.

Does method appear wasteful, judging from local standards? (explain): No.

List acreage/crop type or other units served during maximum season (also show on project sketch/map):
Reported as 680 acres within NSJWCD's service area (80 acres using the North pump station and 600 acres using the South pump station). An updated revised E-map is required to be submitted by permittee prior to licensing.

OTHER USES OF WATER

Complete the following if Domestic/Municipal uses are involved:

Average number of persons served during maximum period: N/A.

Number of housing units/connections: N/A. Type of plumbing facilities available: N/A.

Area of garden, lawn, orchard, dust control, etc. (also show on attached sketch/map): N/A.

Number and type of domestic or commercial livestock served: N/A.

Other miscellaneous uses: (list and explain): N/A. Incidental Municipal, Domestic, Industrial and Recreational uses

were not substantiated. Irrigation appears as the only beneficial use.

EXTENT OF USE OF WATER

Complete the following if direct diversion is involved:

Direct diversion season: December 1 to July 1.

Season of use? Review of the 1992 through 2000 and 2003 through 2005 water use data (See Attachments 1 and 10) shows that the typical season of use ranges from approximately 150 to 210 days and occurs during the growing season, April to October (after July 1, use must be via rediversion of water released from storage at Camanche Reservoir).

How was information on season obtained? Review of diversion data submitted by NSJWCD on the Progress Report by Permittee (Data collected by EBMUD).

Average direct diversion rate during maximum period

(Irr., Muni. - 30 days, Dom. - 7 days, Power - 14 days): 14.4 cfs (30-day average)

Maximum period: June 2000

Maximum annual diversion: 3,198 AFA (say 3,200 AFA)

Year of maximum use: 1992-1993 (taken over a 12-month period-December 1 to November 30, see Attachment 1)

Complete the following if surface storage is involved:

Surface storage season: December 1 to July 1.

Season of use? Review of the 1992 through 2000 and 2003 through 2005 water use data (See Attachments 1 and 10) shows that the typical season of use ranges from approximately 150 to 210 days and occurs during the growing season, April to October.

How was information on season obtained? Review of diversion data submitted by NSJWCD on the Progress Report by

Permittee (Data collected by EBMUD).

Maximum amount diverted to storage in one season: 2,108 AFA (say 2,110 AFA). Year: 1992-1993 Maximum withdrawal in one season (if applicable): 2,108 AFA (say 2,110 AFA). Year: 1992-1993

PERMIT TERMS

Address compliance with each Permit term (by term number):

Term 12, (Standard Permit Term 22 – Right of Access)

This license shall not be construed as conferring upon the licensee the right of access to the point of diversion.

Retain in license. Correct "point" to "points."

Term 13, (Standard Permit Term 27irr - Rotation)

The equivalent of such continuous flow allowance for any 30-day period may be diverted in a shorter time for irrigation provided there is no interference with other rights and instream beneficial uses and provided further that all terms or conditions protecting instream beneficial uses are observed.

2006 2nd Inspection

Retain in license.

Term 14, (Standard Permit Term 29B – Water Conservation Plan)

Permittee shall consult with the Division of Water Rights and develop and implement a water conservation plan or actions. The proposed plan or actions shall be presented to the State Water Resources Control Board for approval within one year from the date of this permit or such further time as, for good cause shown, may be allowed by the Board. A progress report on the development of a water conservation program may be required by the Board at any time within this period.

All cost-effective measures identified in the water conservation program shall be implemented in accordance with the schedule for implementation found therein.

Term not carried over into license. The Final Water Conservation Plan was not found in the file, but the Division file contains three letters written in 1986 to NSJWCD's consulting engineer discussing and providing comments on the draft Plan. Division staff will ask for copy of the Water Conservation Plan. A Water Conservation term is pre-printed in all licenses.

Term 15, (Modified Standard Permit Term 63 - Fish Screen).

No water shall be diverted under this permit during the 1992 or subsequent water years, until the permittee has constructed screening facilities adequate to protect fishlife and/or has entered into an operating agreement with the Department of Fish and Game that will protect fishlife.

If fish screens are constructed to meet the requirements of this permit condition, the Department of Fish and Game shall review the construction plans and determine whether the facilities are adequate to protect fishlife. The Department of Fish and Game shall notify the Division of Water Rights of its approval of the plans in writing. Construction, operation, and maintenance costs of any required facilities are the responsibility of the permittee.

In the event the permittee and the Department of Fish and Game cannot reach agreement with respect to this condition, either party may petition the State Water Resources Control Board to hold a hearing to determine the appropriate conditions.

Retain in license. The permittee is in violation of Term 15. The permittee has not provided information that the Department of Fish and Game (DFG) has approved fish screens for the pump facilities. However, during the 1992-1993 diversion season, a temporary fish screen was approved in writing by DFG. No information was found in the file or provided by the permittee on a DFG-approved permanent fish screen. In a letter to the Division, dated 10-13-2005, the Permittee stated that after the 1993 diversion season, DFG staff stated that fish screening is not necessary. Division staff was unable to verify this statement and the permittee did not provide documentation of any negotiations with DFG on modifying or dropping the fish screen term from the permit.

Term 16, (Standard Permit Term 80 – Reserved Jurisdiction)

The State Water Resources Control Board reserves jurisdiction over this permit to change the season of diversion to conform to later findings of the Board concerning availability of water and the protection of beneficial uses of water in the Sacramento-San Joaquin Delta and San Francisco Bay. Any action to change the authorized season of diversion will be taken only after notice to interested parties and opportunity for hearing.

Term not carried over into license. A similar "reserved jurisdiction" term is pre-printed in all licenses.

Term 17, (Standard Permit Term 90 – Reduction Diversion Season – Delta and Trib. Rivers)

This permit is subject to prior rights. Permittee is put on notice that, during some years, water will not be available for diversion during portions or all of the season authorized herein. The annual variations in demands and hydrologic conditions in the Mokelumne River are such that, in any year of water scarcity, the season of diversion authorized herein may be reduced or completely eliminated on order of this Board made after notice to interested parties and opportunity for hearing.

Retain in license.

Term 18, (Standard Permit Term 91 – InBasin Entitlements – Delta and Trib. Rivers)

No diversion is authorized by this permit when satisfaction of inbasin entitlements requires release of supplemental Project water by the Central Valley Project or the State Water Project.

- a. Inbasin entitlements are defined as all rights to divert water from streams tributary to the Sacramento-San Joaquin Delta or the Delta for use within the respective basins of origin or the Legal Delta, unavoidable natural requirements for riparian habitat and conveyance losses, and flows required by the State Water Resources Control Board for maintenance of water quality and fish and wildlife. Export diversions and Project carriage water are specifically excluded from the definition of inbasin entitlements.
- b. Supplemental Project water is defined as that water imported to the basin by the projects plus water released from Project storage which is in excess of export diversions, Project carriage water, and Project inbasin deliveries.

The State Water Resources Control Board shall notify permittee of curtailment of diversion under this term after it finds that supplemental Project water has been released or will be released. The Board will advise permittee of the probability of imminent curtailment of diversion as far in advance as practicable based on anticipated requirements for supplemental Project water provided by the Project operators.

Retain in license. From 1993 to 2005, Term 91 curtailment notices have been sent to NSJWCD in every year except 1995, 1998 and 2005. The years 1993 through 2005 were selected based on the amended Permit 10477 issuance date of 12-11-1992. The ending date of 2005 was selected based on the pre-license inspection date of 2-2-2006. The curtailment period generally begins around mid-June and coincides with water withdrawn from Camanche Reservoir surface storage and not direct diversion from Mokelumne River (See Attachment 2). Camanche Reservoir hydrographs were analyzed from the curtailment dates to 7-1 of each year. All hydrographs, except 1994, show a decrease in storage capacity (or withdrawal from surface storage) and there appears to be no violation of Term 91. Between April and September 1994, NSJWCD reported monthly diversions of 31 AF (186 acre-feet annual). The overall hydrograph during this period shows a decline in storage except for the period 6-19-1994 through 7-14-1994, which showed an increase of 4,410 acre-feet. NSJWCD claimed by letter, dated 10-4-2005, that the diversion were taken under riparian claim for riparian land. NSJWCD has Statement No. 257 on file, but this riparian claim has not been verified. Also, since the diversion data is obtained by EBMUD on a monthly basis, daily data is not available to check on Term 91 violations in 1994.

Term 19, (Special Term – Lower Mokelumne River Hearings)

If, during the scheduled Mokelumne River hearing, it is determined that water is available to serve Permit 10477, the time extension to December 31, 2000 authorized by this amended permit, shall remain in effect. If it is determined that there is no further water available to serve this permit, then the face value of the permit may be adjusted after hearing.

Delete from license. The State Water Board conducted the Lower Mokelumne River Hearing in November of 1992. According to the State Water Board letter, dated 10-16-2000, to the hearing participants, the State Water Board believed that the hearing issues were resolved (See Attachment 13).

Term 20, (Special Term – No additional pumping capacity or storage facilities)
No additional pumping capacity or storage facilities shall be constructed under Permit 10477.

Retain in license. This special term does not affect the license; however, this term is being considered by the Division's Petition Unit as a result of the Petition for Change to Add a Point of Diversion and a Place of Underground Storage and might be amended in an Order by the State Water Board.

Term 21, (Special Term - Water Code Section 1462)

This permit is issued in accordance with the provisions of Section 1462 of the Water Code for the temporary appropriation of the excess of the permitted appropriation over and above the quantity applied to beneficial use from time to time by the East Bay Municipal Utility District under its Application 13156 and permit issued thereon provided that the project of the North San Joaquin Water Conservation District shall be so constructed that it may be feasibly integrated at a later date with the project of the East Bay Municipal Utility District under Application 13156 as may be determined by the State Water Resources Control Board.

Retain in license. This special term was placed in the permit as a result of Decision 858.

Term 22, (Special Term – Bypass Water Released by EBMUD)

The North San Joaquin Water Conservation District shall allow any water bypassed or released from Camanche Reservoir by the East Bay Municipal Utility District under permitted Application 13156 for the protection and/or enhancement of fish

and wildlife to continue downstream. Nothing in this permit shall be construed as authorizing the North San Joaquin Water Conservation District to appropriate said flows.

Retain in license.

Term 23. (Special Term - Bypass Agreement with DFG)

No diversion shall be made under this permit until an agreement has been reached between the permittee and the State Department of Fish and Game with respect to flows to be bypassed for aquatic life; or failing to reach such agreement, until a further order is entered by the State Water Resources Control Board or its successor with respect to said flows.

Retain in license. The permittee is in violation of Term 23. The permittee has not provided information that an agreement has been reached with DFG with respect to flows to be bypassed for aquatic life. The term will have to be modified using License Term 24a or Term 24b-License Subject to Agreement or by State Water Board Order prior to licensing.

OTHER RIGHTS OR STATEMENTS

Appropriative: None.

Riparian: S

Statement 257 on file for the diversion of 33.42 cfs from the Mokelumne River from 3-1 to 11-30 for

irrigation use. POD: NE1/4 of NW1/4 of Section 35, T4N, R7E, MDB&M.

Other:

Overlying. Permittee has reported conjunctive use on Progress Report by Permittee for the years 1995,

1997, 1998, 2001 and 2003; however, the permittee failed to claim any credits on the Reports. See

Attachment 9.

Attachments:

- 1. Calculations of diversion during the maximum season for the years 1992 through 2000.
- 2. Camanche Reservoir hydrographs for the storage years 1993 and 2000.
- 3. Aerial photograph of North and South Pumping Plants
- 4. Map of (1) Point of Diversion and Place of Surface Storage Camanche Dam and Reservoir.
- 5. Map of (2, 3) Points of Diversion and Rediversion North and South Pumping Plants
- 6. Map of (4) Point of Diversion to Underground Storage and Place of Use (proposed groundwater recharge basin).
- 7. Map of NSJWCD's service area (taken from partially revised E-map, dated 3-3-2006).
- 8. Photographs of NSJWCD's North and South Pumping Plants.
- 9. Summary of Conjunctive Use Declarations from the Progress Report by Permittee from 1993 to 2004.
- 10. Water use for the years 2003, 2004, and 2005.
- 11. Estimated days of diversion for the years 2003, 2004, and 2005.
- 12. Summary of Term 91 curtailment dates.
- 13. Lower Mokelumne River hearing letter, dated 10-16-2000.

CALCULATIONS OF DIVERSION DURING THE MAXIMUM SEASON: (state assumptions made)

	Summary of	f Amounts	Placed to I	Beneficial (Jse, in Acr	e-Feet			
				Year					
Month	1992-1993	1993-1994	1994-1995	1995-1996	1996-1997	1997-1998	1998-1999	1999-2000	
Dec	0	0	0	0	0	0	0	0	A
Jan	0	0	0	0	0	0	0	0	<u></u>
Feb	0	0	0	0	0	0	0	0	25
Mar	0	0	0	0	0	0	0	0	À
Apr	0	31	0	0	473	0	30	54	Direct Diversion
May	322	31	46	233	514	1	343	313	Ë
Jun	768	31	540	523	478	206	530	857	
Jul	890	31	688	696	654	635	657	503	
Aug	610	31	772	620	434	509	496	545	
Sep	479	31	413	500	347	378	429	511	Maximum Direc
Oct	129	0	184	178	108	240	289	0	Diversion Montl
Nov	0	0	0	0	0	0	22	0	
Totals	3198	186	2643	2750	3008	1969	2796	2783	
			Maximum	Amount					
Maximum Amount Taken			Collect						
	from the Source and			ge					
	Placed to Bene	ticiai Use							

Assumptions:

Monthly water use data taken by EBMUD, reported by NSJWCD, and located in main file folder.

Direct Diversion season = December 1 to July 1.

Dates used for licensing recommendations based on Permit 10477 issuance date (12-11-1992) to permit expiration date (12-31-2000) Maximum amount collected to storage is assumed to be equal to the total amount placed to beneficial use after July 1 in the same year. Maximum amount taken from the source and placed to beneficial use is assumed to be equal to the total amount used in the same. NSJWCD claimed by letter, dated 10-4-2005, that the 1993-1994 diversions were taken under riparian claim for riparian land. NSJWCD has Statement No. 257 on file, but this riparian claim has not been verified.

1996-1997 water use data for July through October was not reported on the Progress Report by Permittee for 1997

Maximum Rate of Direct Diversion (average rate over 30-day period):

Maximum Amount Collected to Surface Storage:

(Assumed to be equal to the total amount placed to beneficial use after July 1 in the same year)

Total

Maximum Amount Taken from the Source and Placed to Beneficial Use (12-month period): (Assumed to be equal to the total amount used in the same year)

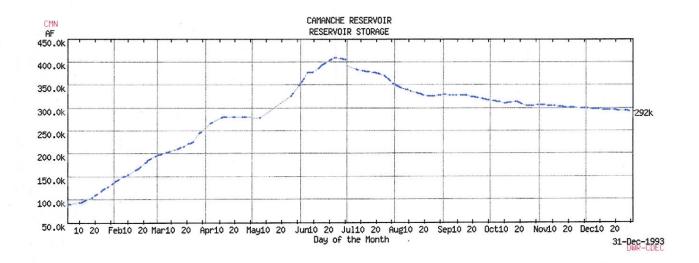
Year:

1992-1993:

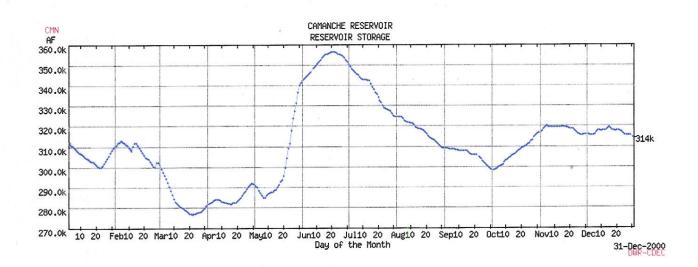
3198 AFA

say 3200 AFA

Camanche Reservoir storage data from 01/01/1993 through 12/31/1993 Maximum storage of period: 408,110 AF Minimum stoarge of period: 89,270 AF



Camanche Reservoir storage data from 01/01/2000 through 12/31/2000 Maximum storage of period: 356,320 AF Minimum storage of period: 276,630 AF



North San Joaquin Water Conservation District Application 12842 (Permit 10477)

(2) Point of Diversion and Rediversion North Pumping Plant



(3) Point of Diversion and Rediversion South Pumping Plant



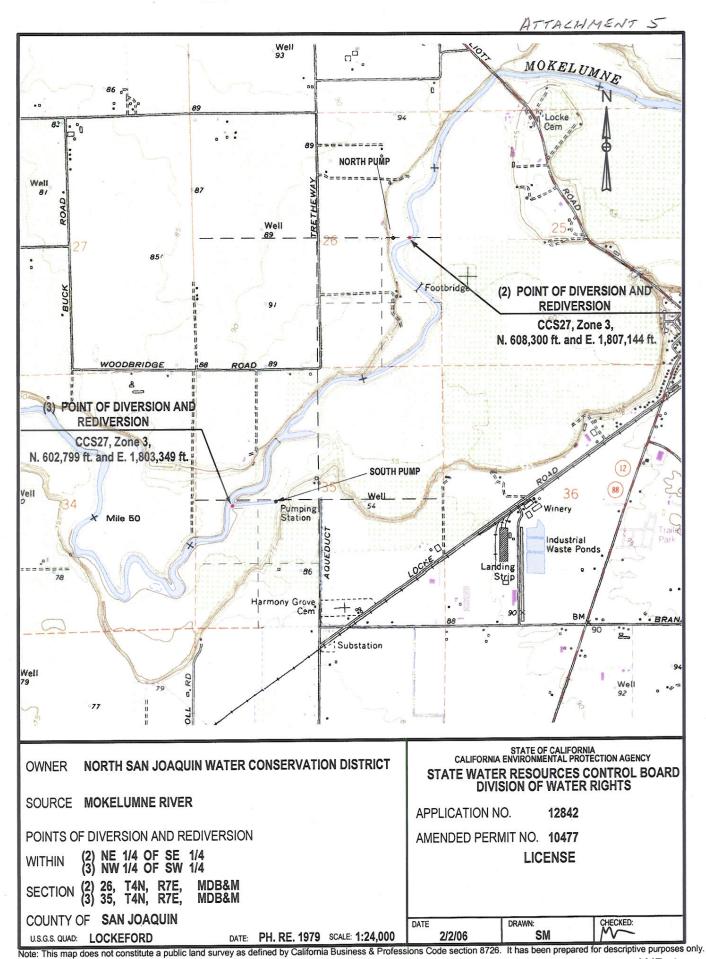
ATTACHMENT IR 0 Well 188 K B S E RIVER Mokelumne River Spr Fish Installation E H Gaging Station O (1) POINT OF DIVERSION AND PLACE OF SURFACE STORAGE Camanche Dam and Reservoir STATE OF CALIFORNIA
CALIFORNIA ENVIRONMENTAL PROTECTION AGENCY NORTH SAN JOAQUIN WATER CONSERVATION DISTRICT STATE WATER RESOURCES CONTROL BOARD DIVISION OF WATER RIGHTS SOURCE MOKELUMNE RIVER APPLICATION NO. 12842 POINT OF DIVERSION AMENDED PERMIT NO. 10477 **LICENSE** WITHIN SE 1/4 OF SE 1/4 SECTION 6, T4N, R9E, MDB&M COUNTY OF SAN JOAQUIN CHECKED: DATE: DRAWN: M 2/2/06

DATE:1968

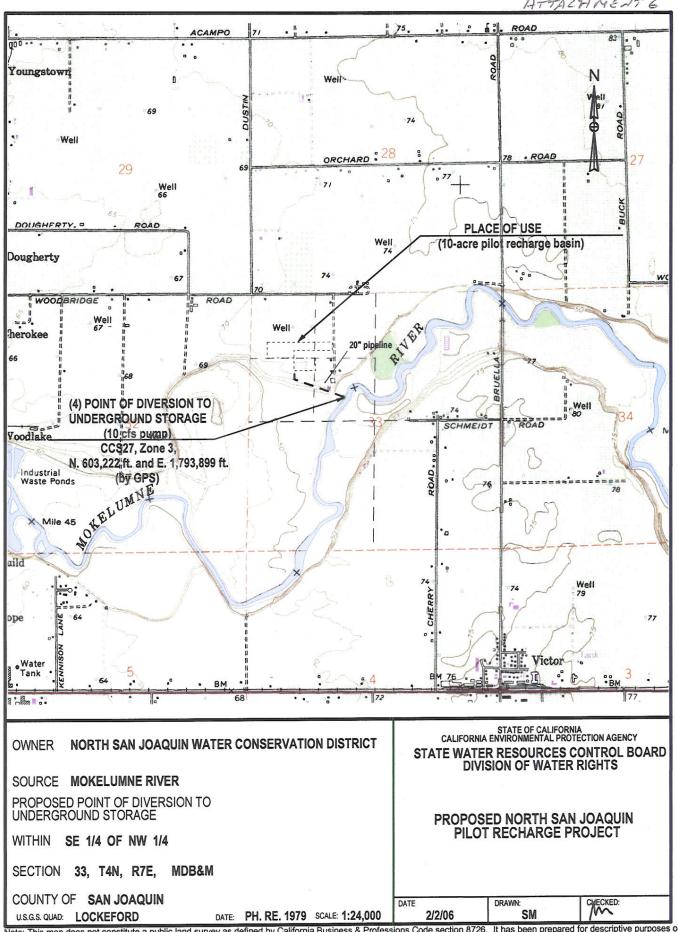
U.S.G.S. QUAD: CLEMENTS

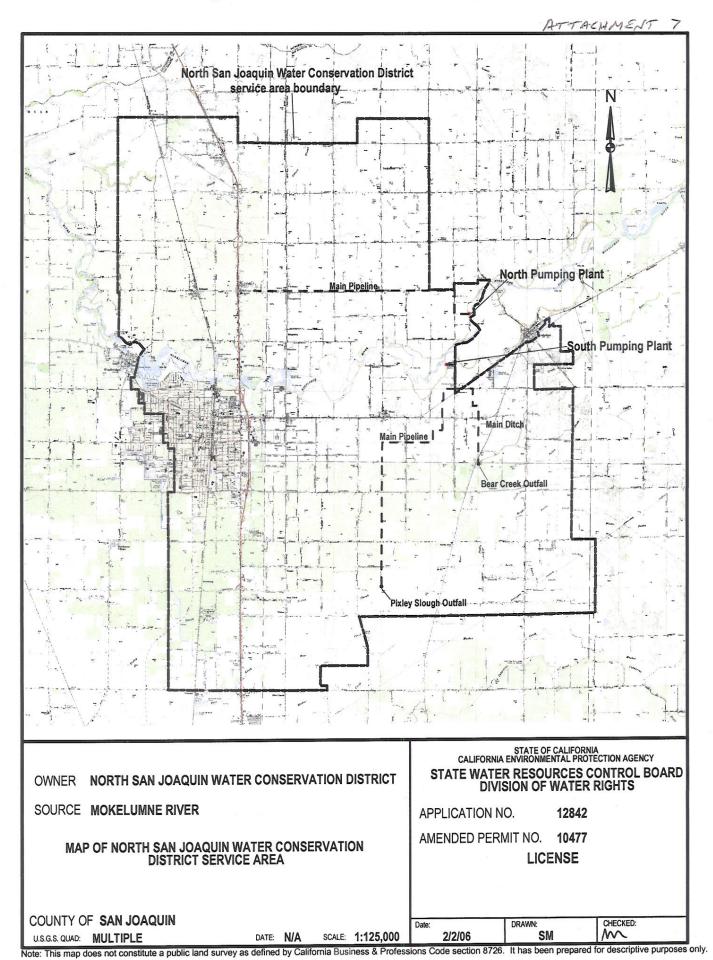
SCALE: 1:24,000

Note: This map does not constitute a public land survey as defined by California Business & Professions Code section 8726. It has been prepared for descriptive purposes only.



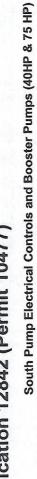
ATTACHMENT 6





North San Joaquin Water Conservation District Application 12842 (Permit 10477)

North Pump Canal looking east (photo of pumps not taken)





Point of Diversion on Mokelumne River South Pumping Plant looking west







A12842 P10477 SM 2-2-06

Prepared by: RSS 2-15-2006

North San Joaquin Water Conservation District Amended Permit 10477 (Application 12842) **Progress Report by Permittee Summary**

ATTACHMENT 9

Year	L #	#15*	#16**	Related Comments
	Use of Water (#5 pre-2001)	Conj Use: Yes, No, None, NA	Conj Use Credit Claimed	on Report
2004	Irrigation: "800+"; Other: "Recharge"	o _N	None	Note: It appears that "Yes" was originally marked for #15, but was crossed out and "No" was then marked.
2003	Irrigation; Other:"Ground water recharge"	Yes	None	"Please [see] 12/00 petition to extend the right."
2002	Irrigation: "800"	No No	None	
2001	Irrigation: "800"	Yes	None	"No water was available during 2001."
2000	Report not in file	NA	NA	[Note: Time petition filed in 2000 that referenced "Eastern San Joaquin Groundwater Basin."]
1999	Report not in file	NA	ΝΑ	
1998	Irrigation;	Yes	None	#15: "Surface water is undependable." "Financing to use additional
	55,000"	8		Surface water use is uneconomic due to costs of maintaining pumps, filters and power contracts needed when surface water is unavailable."
1997	Irrigation:"Incidental":	Yes	None	#15: "The annual and seasonal undependability of Mokelumne River water
	Stockwatering;			causes water users to rely on groundwater. CVP/Folsom-south Canal water
	Municipal: "55,000"	A.		delivery was anticipated by the SWRCB, but has not materialized and the
000	0 L			tack of Monetaline taket loldes water users to pullip ground [water].
1880	Irrigation: "Fruit & nuts, torage, grapes, vegetables"; Other: "Ground water recharge"	None	None	#15: "Ground water used in lieu of undependable Mokelumne River is not available, or its use is uneconomic due to power contracts, well capitalization and filter system problems."
1995	Irrigation	Yes	None	#15: "Ground water used when undependable Mokelumne river is not available or is uneconomic due to power contracts, new well capitalization and filter system needs."
1994	Irrigation; Other:"Ground water recharge"	NA	NA V	#15: "Ground water used when undependable Mokelumne river is not available or is uneconomic due to power contracts, new well capitalization and filter system needs." [Note: Report submitted 7/1/97]
1993	Irrigation; Municipal: "Gr[ound] Wat[er] Recharge 70,000"	Y Z	Y V	"Pending water right decision may permit use of a more dependable water supply."

A * 15. Are you now using groundwater in lieu of surface water? YES [] NO []

Δ ** 16. If credit toward use under this permit through substitution of groundwater in lieu of appropriated water is claimed under Section 1011.5

σ of the Water Code, please show the amounts of groundwater used: _____ (af/mg)

Application 12842-North San Joaquin Water Conservation District Summary of Amounts Placed to Beneficial Use, in Acre-Feet

Attachment 10

	- Carring	017 4170 4171			- 7
		Year			
Month	2002-03	2003-04	2004-05	2005-06	
Dec	0	0	216	0	A =
Jan	0	35	0	0	<u>s</u>
Feb	0	4	0	0	Ver
Mar	0	79	0		
Apr	0	82	0		Direct Diversion
May	9	264	0		Ö
Jun	236	525	558		<u>_</u>
Jul	788	548	568		
Aug	717	400	465		
Sep	690	292	390		
Oct	712	186	206		
Nov	0	231	0		****
Totals	3152	2646	2403	0	8201
					Say 8200 acre-feet

Notes:

Monthly water use data collected by EBMUD, and reported by NSJWCD. Direct Diversion season = December 1 to July 1.

A12842-North San Joaquin Water Conservation District

7112072	1401til 4	Diversion Day		iooi vatio	ii Dioti iot		
		Acre-Feet (1)	Rate (2)	AF/day	Days of Div	Actual Days	
2003	Jan	0	40.00	79.34	0.000	0.00	
2000	Feb	Ö	40.00	79.34	0.000	0.00	
	Mar	0	40.00	79.34	0.000	0.00	2
	Apr	0	40.00	79.34	0.000	0.00	
	May	9	40.00	79.34	0.113	1.00	
	Jun	236	40.00	79.34	2.975	3.00	
	Jul	788	40.00	79.34	9.932	10.00	
	Aug	717	40.00	79.34	9.037	10.00	
	Sep	690	40.00	79.34	8.697	9.00	
	Oct	712	40.00	79.34	8.974	9.00	
	Nov	0	40.00	79.34	0.000	0.00	
	Dec	0	40.00	79.34	0.000	0.00	42.00 days in 2003 3152 total AF for 2003
2004	Jan	35	40.00	79.34	0.441	1.00	
	Feb	4	40.00	79.34	0.050	1.00	
	Mar	79	40.00	79.34	0.996	1.00	
	Apr	82	40.00	79.34	1.034	2.00	
	May	264	40.00	79.34	3.327	4.00	
	Jun	525	40.00	79.34	6.617	7.00	
	Jul	548	40.00	79.34	6.907	7.00	
	Aug	400	40.00	79.34	5.042	6.00	
	Sep	292	40.00	79.34	3.680	4.00	
	Oct	186	40.00	79.34	2.344	3.00	
	Nov	231	40.00	79.34	2.912	3.00	
	Dec	216	40.00	79.34	2.722	3.00	42.00 days in 2004 2862 total AF for 2004
2005	Jan	0	40.00	79.34	0.000	0.00	
	Feb	0	40.00	79.34	0.000	0.00	
	Mar	0	40.00	79.34	0.000	0.00	
	Apr	0	40.00	79.34	0.000	0.00	
	May	0	40.00	79.34	0.000	0.00	
	Jun	558	40.00	79.34	7.033	8.00	
	Jul	568	40.00	79.34	7.159	8.00	
	Aug	465	40.00	79.34	5.861	6.00	
	Sep	390	40.00	79.34	4.916	5.00	
	Oct	206	40.00	79.34	2.596	3.00	
	Nov	0	40.00	79.34	0.000	0.00	
	Dec	0	40.00	79.34	0.000	0.00	30.00 days in 2005 2187 total AF for 2005
2006	Jan	0	40.00	79.34	0.000	0.00	
	Feb	0	40.00	79.34	0.000	0.00	
				e v	103.365	114.00	8201 total AF for 2003, 2004, 2005

Monthly diversion data provided by EBMUD.
 Assumed a rate of 40 cfs from any one facility.

SUMMARY WATER DIVERSION CURTAILMENT DATES SACRAMENTO-SAN JOAQUIN DELTA WATERSHED

Updated: September 18, 2006

Year	Term 91	Term 93	Sacramento-San	ı Joaquin Delta	Mokelumne River (also subject to Sacramento- San Joaquin Delta curtailments)	
			Appropriative	Riparian	Appropriative	Riparian
1984	6/22 - 8/31					
1985	5/17 - 8/31			-		
1986	7/2 - 8/6			7		
1987	5/12 - 8/31	11				
1988	6/21 - 8/31 (9/7)	4/5 - 8/31 (9/7)	7/7 - 9/7	П.	7/7 - Unspecified	8/1 - Unspecified
1989	6/21 - 8/31					
1990	5/14 - 8/31	3/22 - 8/31	7/1 - 8/31		7/1 - 9/30	8/15 - 9/30
1991	6/10 - 8/31	7/10 - 8/31	7/1 - 8/31		7/1 - 8/31	
1992	5/21 - 11/15		6/1 - 8/31		6/1 - 8/31	
1993	7/27 - 8/31					
1994	6/15 - 8/31		7/1 - 8/31		7/1 - 8/31	
1995	None					
1996	7/22 - 8/20					
1997	6/18 - 8/24					
1998	None					
1999	6/29 - 8/18		20			
2000	6/28 - 8/17					
2001	6/4 - 8/31					
2002	6/17 - 8/31 & 10/10 - 11/15		26			
2003	7/3 – 8/31					
2004	5/29 - 8/31	6/15 - 8/31				
2005	None					
2006	None				4.10	
2007						

Notes:

In 1988, the Term 91 and Term 93 water diversion curtailment notices specified an August 31, 1988 end-date. A subsequent water diversion curtailment notice dated July 7, 1988 to all appropriative right holders (including all Term 91 and 93 diverters) in the Sacramento-San Joaquin Delta watershed established a water diversion curtailment period that eventually extended to September 7, 1988 (except in the Mokelumne River watershed where the water diversion curtailment period was further extended to an unspecified date).

- 2. In 1988 and 1990, the Mokelumne River appropriative right holders (including a few Term 91 and 93 diverters) had their water diversion curtailment periods extended for an even longer period than appropriative right holders in other portions of the Sacramento-San Joaquin Delta watershed. In 1988, the curtailment end-date was not specified, so the water diversion curtailment likely continued through the irrigation season until normal rainfall resumed (mid-November?). In 1990, the end-date was September 30, 1990 in the Mokelumne River watershed while the end-date was August 31, 1990 throughout the rest of the Sacramento-San Joaquin Delta watershed.
- 3. Start dates shown are either: (1) the Notice Date or (2) the date established in the Notice, whichever is later. For example, in 1990, the Mokelumne River riparian diverters were informed by Notice dated August 15, 1990 that the diversion curtailment period started two weeks earlier on August 1, 1990. Therefore, the date of the Notice, August 15, 1990, is displayed above.



2-2-06

