REPORT OF INSPECTION

Filing Data

APPLICATION: 301 **FILING DATE:** 4-17-16

NAME : West Side I.D.
ADDRESS : P. O. Box 177, Tracy, CA 95376
SOURCE : San Joaquin River
PT. OF DIV. : SE¼, NE¼, Sec 3, T2S, R4E, MDB&M **COUNTY:** San Joaquin
AMOUNT : 82.5 cfs
PURPOSE : Irrigation
SEASON : April 1 to Oct 31

PERMIT NO. : 270 **DATE ISSUED:** **EXPIRES:**

Date of Inspection 7-18-85 Inspected by Ben Rinehart
Accompanied by Gene Carson, Manager 1-209-894-3091
Persons interviewed Same
Reason for inspection Update license to present Place of Use and Amount

Recommendation

License ☐ Extension ☐ to 19____ No action ☐ Revoke ☐

Changes or corrections None ☐
(Indicate by an "X" the items that need change from permit or license and show correctly below)
Owner ☐ Address ☐ Amount ☒ Season ☐ Purpose ☐ Point of diversion ☐ Place of use ☒

Remarks (Explain basis for recommendation)
The change in the license are recommended as follows to show conditions as they exist.
Amount: 825 cfs to 64.75 cfs
Place of Use: 11,993.8 acres to 9,413 acres

Source

Name San Joaquin River
Tributary to Delta
From (direction) South
During what portion of year does minimum flow occur? Late summer
Measured or estimated flow at time of inspection Ample

Who measures flow? Not measu.
Is supply natural flow? Yes
Estimated minimum flow Not known

Diversion System

Is point of diversion at location specified in permit, license, or order? Yes
If not, when will petition be submitted?
If diversion point has been moved, roughly describe present location with respect to authorized location
Would change cause any injury?
Is diversion by gravity or pumping? Pumping from Old River Ditch
Is diversion system complete? Yes If not, briefly explain what remains to be done
If not complete, does it appear to have been pursued with reasonable diligence?
What is the capacity of the limiting section? How determined?
Explain briefly manner of determining above capacity Adequate diversion and pumping facilities.
See sketch.

WSID CDO/BBID ACL
WSID0009

West side I.D. surrounds the city of Tracy. The project was licensed in 1933. Water is diverted from a branch of San Joaquin River (old River) through an intake canal about 1.5 miles long. Water moves very slowly in the flat gradient channel which is affected by tides of about 4 feet. The channel is from 4 feet to 8 feet deep depending on tides. Quality of water is poor; 800 to 1000 T.D.S. The intake canal has been dredged due to bank sloughing and widened over the years. The estimated capacity is about 280 cfs.

The pumping plant consists of a series of 9 Byron Jackson pumps with direct drive to westinghouse electric motors. Size of pumps varies from 150 hp to 325 hp. This is the original pumping plant. Estimated total capacity is 16 cfs each = 144 cfs during maximum operation of the 9 pumps. Water from 4 of the pumps is discharged into the lower main canal which has an estimated capacity of 157 cfs. It is about 10 miles in total length with sub laterals and return flow pipelines throughout the district. Canals and ditches are Partially concrete lined.

The upper main canal estimated capacity is 218 cfs. It is served by 5 pumps. There are no records of flows except for individual diversion throughout the district which are wiers controlled by ditch tenders.

Supplemental Water which was not available at time of license is purchased from the central Valley Project through the Delta-Mendota Canal, at a maximum normal annual allowance of 7,500 acre-feet, cost is $3.50 per acre-foot. The district sells water for about $14 per acre-foot. The upper main canal tie to Delta-Mendota canal has a capacity of 55 cfs. The lower main canal tie to Delta Mendota canal has a capacity of 80 cfs. This is good quality water; 150 ppm T.D.S.

Tailwater and return flows from upstream Byron-Bethany I.D. and Plainview W.D. contribute up to 20% of their excess. Large quantities of water are required for pre-irrigation prior to planting, leaching of salts and excess required to reach ends of rows of furrow irrigated crops. Return flows are diverted back into the district canals where they are diluted with better quality water for Re-use. According to Mr. Carson, CVP water has not been included in Report of licensee (1981-1983). A maximum of 8297 acre feet was reported for June 1982. This is an excess which is also shown for: July 81 (5347af) June, July and Aug 1982, and June of 1983 (5431 af). The monthly amount should not exceed 4900 AF/month. 82.5 cfs X 1.98 af/cfs X 30 days = 4900 AF.

The tail water return flows are included as is the water pumped from a 100 HP pump on a deep well located within Section 5, near the southern district boundary as shown on map. Capacity of the well is 7 cfs according to Mr. Carson. It is used only upon demand due to high pumping cost. The amount of return flows and pumped water have not been identified.

Mr. Carson stated that he would prepare the Petition and map showing the existing place of use. He will also prepare data in support of an increase in use of water per acre. He was advised that the License will be conditioned to show existing amounts. At present, the license does not show acre-foot or annual acre-foot allowances. The revised license will have to be prepared and submitted to the I.D. board of directors.

I.D. Map shows acres in existing place of use.

Show formula used in computing direct diversion or capacity of storage reservoir:

CALCULATION OF DIVERSION DURING MAXIMUM SEASON

(In tabular form—not narrative)

This is a large project which was installed about 1916. Pumping and diversion facilities are about the same as licensed in 1933.

License for 82.5 cfs for irrgation of 11,993 acres1. Recommended licemse reduction is based on prorata calculation of existing irrigated acres.

11,993 acres in license
- 2,746 acres no longer irrigated

9,247
+ 166 acres annexed to district
9,413 acres existing.

$$\frac{9,413}{11,993} \times 82.5 \text{ cfs} = 64.75 \text{ cfs}^*$$

*Other factors not presented at the time of inspection may increase this amount.
(See Remarks page)

1984 Power Consumption information is:

First Quarter	324,659	Kwh	Delivery Voltage is: 2.4 K.v.
Second "	991,075	"	
Third "	1,003,546	"	
Fourth "	21,487	"	

Briefly describe any changes from place of use as described in license or order Reduced from 11,993.8 ac to existing 9413 acres.

Is petition required? Yes **If so, indicate when it will be submitted** Aug, 1985

Does licensee own or control all of the land covered under license? Yes

Use of Water

Briefly describe method of applying water to each of the uses described in license See sketch - water diverted via channel to 9 pumps which serve high and low ditch which runs by gravity through the district.

Does season of use conform to season shown on license? Yes **If different, describe**

List approximate acreage of each individual crop served in each of the past three seasons (If use is other than irrigation list applicable units served or if storage is involved state whether or not reservoir filled each year and give approximate withdrawal)

The crops vary - There are hundreds of customers. Alfalfa, lima beans and tomatoes are predominent.

Give approximate rate of use during maximum period and briefly describe manner of computing same

Approx. 64.75 cfs - Prorated

If rate of use is less than amount shown in license, state reason for reduction in use and whether or not it will be the normal situation in the future The place of use has been reduced by 2414 acres as shown on map.


Westside
CANAL