

[SUMMARY OF FINAL SUBMITTED VERSION]

PROGRESS REPORT BY PERMITTEE FOR 2010

Primary Owner: CALIF DEPT OF WATER RESOURCES
 Application Number: A017512
 Permit Number: 016482
 Date Submitted: 2011-06-30

| Compliance with Permit Terms and Conditions | |
|--|-----|
| I have reviewed my water right permit | Yes |
| I am complying with all terms and conditions | Yes |
| Description of noncompliance with terms and conditions | |
| Intake location has been changed | |
| Description of intake location changes | |
| Type of use has changed | |
| Description of type of use changes | |
| Place of use has changed | |
| Description of place of use changes | |

| Permitted Project Status | |
|--|--|
| Project Status | Not Complete |
| Construction work has commenced | Yes |
| Construction is completed | No |
| Beneficial uses of water has commenced | Yes |
| Project will be completed within the time period specified in the permit | No |
| Explanation of work remaining to be done | <p>Construction of the East Branch Extension of the California Aqueduct is not yet complete. The facilities link the State Water Project at the Devil Canyon power plant to the eastern part of San Bernardino Valley Water District and San Geronio Pass Water Agency. Phase 1 of the East Branch Extension project is complete. DWR certified the Final Environmental Impact Report for Phase 2 of the East Branch Extension and approved the project on March 2, 2009. The project is currently under construction. Other facilities may be required depending on the outcome of current efforts to address issues in the Sacramento/San Joaquin Delta. Maximum diversion to storage and rate of direct diversion under Permit 16478 has reached the quantities authorized under the permit. Additional time is required to maximize beneficial use authorized under the remaining permits governing SWP operations at Oroville and in the Delta, Permits 16479, 16481 and 16482. Annual diversions to storage are dependent on end of season storage, hydrology and State Water Project demands and regulatory constraints. Maximum diversion rate, total annual diversion to storage and maximum annual use are expected to increase as demands within the SWP service area increase. DWR filed a petition for time extension on December 31, 2010. There are a number of factors creating uncertainty as to the ultimate demands for project water and the quantities available and timing of diversions including the current Bay-Delta Conservation Plan process. At this time, DWR is requesting a 5 year extension to allow time for the</p> |

| | |
|------------------------------|--|
| | current planning processes to be completed. At that time DWR should be better able to estimate future demands for project water. |
| Estimated date of completion | 12/31/2035 |

| Purpose of Use | |
|---|-------------------------------|
| Industrial | mixed industrial |
| Domestic | 0 |
| Fish and Wildlife Protection and/or Enhancement | fish & wildlife protection |
| Irrigation | 750000 Acres Mixed Crop Types |
| Incidental Power | 1876 MW |
| Municipal | 25000000 |

| Month | Amount directly diverted or collected to storage (Acre-Feet) | Amount used (Acre-Feet) |
|-----------|--|-------------------------|
| January | 133466 | 0 |
| February | 147247 | 0 |
| March | 112889 | 0 |
| April | 0 | 75170 |
| May | 0 | 64139 |
| June | 0 | 66045 |
| July | 0 | 17128 |
| August | 0 | 0 |
| September | 0 | 0 |
| October | 25420 | 0 |
| November | 73330 | 0 |
| December | 288344 | 0 |
| Total | 780696 | 222482 |

| Month | Maximum Rate of Diversion () |
|-----------|------------------------------|
| January | |
| February | |
| March | |
| April | |
| May | |
| June | |
| July | |
| August | |
| September | |
| October | |
| November | |
| December | |

| Reservoir name | Spilled this year | Feet below spillway at maximum storage | Completely emptied | Feet below spillway at minimum storage | Method used to measure water level |
|----------------|-------------------|--|--------------------|--|---|
| San Luis | No | 0 | No | 0 | Analog Stevens Recorder-Indicating and Recording Water Level Gage |
| Pyramid | No | 0 | No | 0 | Prosonic Instrument |

| | | | | | |
|------------|----|---|----|---|---------------------|
| Castaic | No | 0 | No | 0 | Nitrogen Bubbler |
| Silverwood | No | 0 | No | 0 | Prosonic Instrument |
| Perris | No | 0 | No | 0 | Prosonic Instrument |

Conservation of Water

| | |
|---|--|
| Are you now employing water conservation efforts? | Yes |
| Description of water conservation efforts | Since 1979, DWR has provided information and assistance to water users. The Department's Office of Water Use Efficiency provides expertise to local agencies and individuals regarding agricultural and urban water and energy conservation, reclamation and reuse of water, land and water use, and drainage management. The office also manages the California Irrigation Management Information System (CIMIS), assists in establishing mobile laboratories that conduct irrigation system evaluations, carries out data analysis, demonstration projects, and research to achieve energy and water use efficiency, and provides loans and grants to make more efficient use of water and energy resources. In addition to DWR's efforts, the agencies receiving SWP water implement local water conservation programs. |
| Amount of water conserved | 0 Acre-Feet |

Water Quality and Wastewater Reclamation

| | |
|--|----|
| During the period covered by this Report, did you use reclaimed water from a wastewater treatment facility, water from a desalination facility, or water polluted by waste to a degree which unreasonably affects the water for other beneficial uses? | No |
| Amount of reclaimed, desalinated, or polluted water used | |

Conjunctive Use of Groundwater and Surface Water

| | |
|---|----|
| During the period covered by this Report, were you using groundwater in lieu of available surface water authorized under your permit? | No |
| Amounts of groundwater used | |

Additional Remarks

See Attached Remarks

Attachments

| File Name | Size |
|--|-------|
| 2010 SWP Deliveries attachment.pdf | 17 KB |
| 2010 SWP operations attachment.pdf | 23 KB |
| A17512 Additional Remarks.pdf | 9 KB |

Contact Information of the Person Submitting the Form

| | |
|--|-------|
| First Name | Nancy |
| Last Name | Quan |
| Relation to Water Right | Agent |
| Has read the form and agrees the information in the report is true to the best of his/her knowledge and belief | Yes |

2010 Deliveries to Long Term State Water Project Contractors

| Month | Deliveries from Feather River (AF) | North Bay Aqueduct (AF) | Downstream of Harvey O. Banks Pumping Plant (AF) | Recreation (AF) | Total (AF) |
|--------------|--|-------------------------------|---|--------------------|------------------|
| Jan | 82 | 0 | 68,435 | 72 | 68,589 |
| Feb | 66 | 0 | 36,606 | 15 | 36,687 |
| Mar | 134 | 0 | 70,285 | 23 | 70,442 |
| Apr | 162 | 0 | 115,854 | 52 | 116,068 |
| May | 3 | 0 | 182,868 | 113 | 182,984 |
| Jun | 6 | 0 | 262,909 | 147 | 263,062 |
| Jul | 1,184 | 3,207 | 329,270 | 182 | 333,843 |
| Aug | 1,393 | 6,145 | 363,790 | 158 | 371,486 |
| Sep | 40 | 0 | 283,423 | 102 | 283,565 |
| Oct | 15 | 0 | 223,742 | 117 | 223,874 |
| Nov | 7 | 0 | 202,772 | 111 | 202,890 |
| Dec | 46 | 0 | 186,278 | 75 | 186,399 |
| Total | 3,138 | 9,352 | 2,326,232 | 1,167 | 2,339,889 |

The quantities shown represent SWP deliveries from water appropriated under Permits 16478, 16479, 16481, and 16482 only.

SWP Deliveries at North Bay appropriated under Permit 16483 and from Lake Davis under Permits 15254 and 15255 are reported under those individual permits.

Quantities shown represent SWP deliveries only.

Quantities do not include deliveries of water under water rights settlement agreements or for fish and wildlife, maintenance of water quality or other environmental purposes.

2010 State Water Project Major Facilities Operations

| Month | Oroville End of Month Storage ¹⁾ (AF) | Diversion to Storage at Oroville (AF) | Barker Slough Pumping Plant (AF) | Harvey O. Banks Pumping Plant ²⁾ (AF) | San Luis Reservoir End of Month Storage (AF) | Pyramid Lake End of Month Storage (AF) | Castaic Lake End of Month Storage (AF) | Silverwood Lake End of Month Storage (AF) | Lake Perris End of Month Storage (AF) | Total Diversion to Storage from Delta ³⁾ (AF) |
|-------|---|--|--|--|--|---|---|---|--|--|
| Jan | 1,190,546 | 180,876 | 921 | 247,157 | 567,198 | 166,770 | 260,133 | 60,656 | 63,629 | 219,566 |
| Feb | 1,385,567 | 195,021 | 1,171 | 167,856 | 693,804 | 168,190 | 274,049 | 70,676 | 58,914 | 147,247 |
| Mar | 1,649,826 | 264,259 | 549 | 224,635 | 834,324 | 167,754 | 265,934 | 70,148 | 66,743 | 112,889 |
| Apr | 2,113,446 | 463,620 | 1,467 | 40,736 | 813,067 | 168,575 | 259,891 | 70,865 | 65,816 | 0 |
| May | 2,493,585 | 380,139 | 4,369 | 59,904 | 687,721 | 169,927 | 246,696 | 72,686 | 63,734 | 0 |
| Jun | 2,719,221 | 228,382 | 5,860 | 197,011 | 603,975 | 164,308 | 249,658 | 70,195 | 63,053 | 0 |
| Jul | 2,407,823 | 0 | 6,555 | 304,707 | 516,050 | 167,025 | 255,448 | 70,752 | 62,635 | 0 |
| Aug | 2,039,725 | 0 | 6,434 | 396,108 | 473,463 | 166,184 | 258,868 | 70,544 | 61,768 | 0 |
| Sep | 1,755,194 | 0 | 6,104 | 335,463 | 414,268 | 164,308 | 259,734 | 69,960 | 61,200 | 0 |
| Oct | 1,701,555 | 0 | 5,131 | 291,871 | 436,476 | 169,992 | 285,714 | 66,319 | 60,736 | 25,420 |
| Nov | 1,637,596 | 0 | 4,101 | 295,476 | 527,892 | 166,439 | 279,419 | 70,412 | 64,260 | 73,330 |
| Dec | 2,180,369 | 546,164 | 1,380 | 420,748 | 802,501 | 164,321 | 291,467 | 71,796 | 69,271 | 288,344 |
| Total | | 2,258,461 | 44,042 | 2,981,672 | | | | | | 866,796 |

Notes:

SWP Operations authorized under Permits 16478, 16479, 16481, 16482, and 16483.

1. Oroville Storage represents water use authorized under Permits 16478 and 16479.

2. Banks Pumping represents SWP pumping only authorized under Permits 16478, 16479, 16481, and 16482.

3. Quantities shown do not include redirection of Oroville Storage

Additional Remarks

All data is preliminary and subject to change. Water diversion and use have been allocated to the individual Permits 16478, 16479, 16481, 16482, and 16483 governing the primary operations of the State Water Project (SWP) consistent with the water rights priorities. However, SWP operations are not segmented by individual permit. The SWP is operated as a single coordinated project consistent with the joint terms and conditions specified in Water Rights Decision 1641 (D1641) and the criteria specified in the biological opinions for the protection of Delta smelt and anadromous fishes. Operations are also coordinated with the U.S. Department of Interior, Bureau of Reclamation consistent with the provisions of the Coordinated Operations Agreement (COA) dated November 24, 1986. The SWP is a large complex project with nearly 700 miles of aqueduct, numerous storage and regulating reservoirs, multiple diversion facilities, and several different water supply sources. Allocating diversion and use to individual permits requires numerous simplifying assumptions due to the complexity of the project, the substantial geographic distribution of facilities, multiple water sources, numerous rediversion and delivery locations and multiple authorized purposes of use, both consumptive and non-consumptive. Those assumptions do not necessarily reflect actual project operations or the physical environment. In order to allow allocation of diversion and use to individual permits for purposes of annual reporting, project operations were assumed to be instantaneous at all locations throughout the project on any given day. While it is recognized that there is substantial time lag between diversions and releases at Lake Oroville, the Sacramento/San Joaquin Delta and deliveries throughout the SWP, the assumption is necessary to allow allocation of diversion and use to individual permits and is considered sufficient for annual reporting purposes. Quantities for diversion to storage do not include quantities for the smaller reregulating reservoirs.

- Item 2: SWP water rights permit terms and conditions are specified in D1641. There was one minor exceedence of the D1641 Export/Inflow criteria in 2010. The E/I ratio exceeded 65% (actual 68%) for two days on October 11 and 12, 2010. The exceedence was reported to the State Water Resources Control Board on October 25, 2010. The exceedence was the result of lower than expected inflows to the Delta due to a shift in timing of Mokelumne River pulse flows.
- Item 7: The SWP is a large complex water supply system consisting of 29 dams, 30 pumping and generating plants and approximately 675 miles of aqueducts. DWR diverts water under its permits for irrigation, industrial, municipal, domestic, incidental power, recreation, salinity control and fish and wildlife enhancement purposes. The SWP delivers water to 29 long-term water supply contractors serving approximately 25 million people and providing irrigation to approximately 750,000 acres of farmland. Recreation opportunities at SWP facilities include boating, fishing, water contact sports and camping among others. DWR generates incidental power under permits 16478, 16479, 16481, and 16482 at the Gianelli, Alamo, Warne, Mojave Siphon, and Devil Canyon powerplants. (total installed capacity 626 MW) Power is also generated by the flows appropriated under the above permits at the Castaic Powerplant owned and operated by Los Angeles Department of

Additional Remarks

- Water and Power (1250 MW). Specific information regarding SWP operations and deliveries are contained in DWR Bulletin 132. The Division of Water Rights receives a copy of Bulletin when it is released. It is also available online at <http://www.water.ca.gov/swpao/bulletin.cfm>.
- Item 8: The quantities shown Item 8 include only those diversions made under Permit 16482. Those shown in the attached tables include water use under Permits 16478, 16479, 16481, 16482 and 16483 which authorize use for irrigation, domestic, municipal, industrial, salinity control, recreational and fish and wildlife enhancement purposes.
- Item 10: The SWP reservoirs south of the Delta are designed for offstream storage and are operated to avoid spill. Water may be directly diverted from the Delta channels or rediverted from Lake Oroville. Water levels fluctuate substantially throughout the year and do not represent diversions to storage.