



M&I 2022 Sch A-9 F.Z24.xlsm
12/16/2021

CENTRAL VALLEY PROJECT
SCHEDULE OF ESTIMATED M&I OPERATION & MAINTENANCE COSTS
BY FACILITY AND/OR COMPONENT
2022 M&I WATER RATES

| A | B | C | D |
|--|-------------------------------|---|--------------------------------|
| Facility/Contractor | Estimated O&M & Corps Expense | Estimated Project Use Energy Cost <A-11> | Total Estimated Costs (B+C) |
| Ref | | | |
| Storage | | | |
| American River | \$ 16,892 | \$ - | \$ 16,892 |
| Black Butte Reservoir | \$ 79,350 | \$ - | \$ 79,350 |
| Clair A. Hill Whiskeytown Dam | \$ 24,037 | \$ - | \$ 24,037 |
| Clear Creek Tunnel | \$ 7,588 | \$ - | \$ 7,588 |
| Columbia-Mowry System | \$ 37,599 | \$ 3,072 | \$ 40,671 |
| Delta Cross Channel | \$ 22,410 | \$ - | \$ 22,410 |
| Folsom D&R | \$ 210,728 | \$ - | \$ 210,728 |
| Folsom Pipeline | \$ - | \$ - | \$ - |
| Folsom PP | \$ 99,600 | \$ 85,936 | \$ 185,536 |
| Friant D&R | \$ 295,641 | \$ 10,354 | \$ 305,995 |
| Gianelli, WR PGP | 2/ \$ - | \$ 680,833 | \$ 680,833 |
| Regeneration Credit | 2/ \$ - | \$ (633,324) | \$ (633,324) |
| New Melones D&R | \$ 9,344 | \$ - | \$ 9,344 |
| New Melones Long Term Operating Plan | \$ 20,725 | \$ - | \$ 20,725 |
| Nimbus D&R | \$ 24,168 | \$ - | \$ 24,168 |
| Red Bluff Diversion Dam | \$ - | \$ - | \$ - |
| San Joaquin River | \$ 11,463 | \$ - | \$ 11,463 |
| Sacramento River | \$ 10,378 | \$ - | \$ 10,378 |
| Security Costs | \$ 583,668 | \$ - | \$ 583,668 |
| San Luis Unit - Other Routine O&M Costs - Joint. | \$ 2,278,380 | \$ - | \$ 2,278,380 |
| Shasta Dam and Reservoir | \$ 254,695 | \$ 122,328 | \$ 377,023 |
| Spring Creek Tunnel | \$ - | \$ - | \$ - |
| Trinity Dam and Clair Engle Lake | \$ 31,268 | \$ - | \$ 31,268 |
| Water Forum - American River Division | \$ 3,594 | \$ - | \$ 3,594 |
| Total Storage including PUE Offset | 2/ 3/ \$ 4,021,527 | \$ 269,199 | \$ 4,290,726 |
| Storage PUE Credit | 3/ \$ - | \$ (269,199) | \$ (269,199) |

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| Ref | | | |
| Conveyance | | | |
| | \$ - | \$ - | \$ - |
| Delta Barriers - Unfunded | \$ - | \$ - | \$ - |
| DMC Regulatory Actions | 4,869 | - | 4,869 |
| Hydrologic Operating Modeling - Delta Division | - | - | - |
| DMC Subsidence Study | - | - | - |
| Friant-Kern Canal | 617 | - | 617 |
| Little Panoche Detention Dam | 134 | - | 134 |
| Los Banos Creek Detention Dam - Oper. Joint | 6 | - | 6 |
| Red Bluff Diversion Dam | - | - | - |
| Tehama-Colusa Canal | 875 | - | 875 |
| San Luis Canal - Federal Only | - | - | - |
| Drainage Projects | 37,206 | - | 37,206 |
| Folsom-South Canal (Water Ratesetting) | 98,400 | - | 98,400 |
| Total Conveyance | 142,107 | - | 142,107 |
| Less Direct Billed | (43,707) | - | (43,707) |
| Net Conveyance | 98,400 | - | 98,400 |
| Conveyance Pumping | | | |
| | - | 101,231 | 101,231 |
| Dos Amigos Pumping Plant | - | 381,639 | 381,639 |
| O'Neill Pump Gen Plant - Federal | - | 1,522,120 | 1,522,120 |
| Jones Pumping Plant | - | - | - |
| Jones Switchyard | - | - | - |
| Total Conv. Pumping (Direct Billed) | - | 2,004,989 | 2,004,989 |
| Less Direct Billed | - | (2,004,989) | (2,004,989) |
| Net Conveyance Pumping | - | - | - |
| Direct Pumping | | | |
| | - | 1,890 | 1,890 |
| Colusa County WD | - | 1,225,017 | 1,225,017 |
| Contra Costa PP (Contra Costa WD) | - | 40 | 40 |
| Kanawha WD | - | 152,889 | 152,889 |
| Pleasant Valley PP (City of Coalinga) | - | - | - |
| San Benito County WD | - | - | - |
| Gianelli, WR PGP | 1/ | 14,525 | 14,525 |
| Pacheco PP | 1/ | 63,856 | 63,856 |
| San Luis WD Relifts | - | 10,279 | 10,279 |
| Santa Clara Valley WD | - | - | - |
| Coyote PP | 1/ | 91,063 | 91,063 |
| Gianelli, WR PGP | 1/ | 220,139 | 220,139 |
| Pacheco PP | 1/ | 967,789 | 967,789 |
| Shasta PP (City of Shasta Lake) | - | 1,755 | 126,755 |

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|---|----------------------------------|--|-----------------------------------|
| Facility/Contractor Ref | Estimated O&M & Corps Expense | Estimated Project Use Energy Cost <A-11> | Total Estimated Costs (B+C) |
| State-Delta PP (Cross Valley Canal) | \$ - | \$ 3,603 | \$ 3,603 |
| Westlands WD Relifts | \$ - | \$ 23,193 | \$ 23,193 |
| Wintu PP (Bella Vista WD) | \$ - | \$ 124,821 | \$ 124,821 |
| Dos Amigos PP (Cross Valley Canal) | \$ - | \$ 2,383 | \$ 2,383 |
| Total Direct Pumping | \$ 125,000 | \$ 2,903,242 | \$ 3,028,242 |
| Direct Pumping to WAPA (Specific Users) | \$ - | \$ (2,617,791) | \$ (2,617,791) |
| Direct Pumping Credit/to WAPA | 3/ \$ - | \$ (285,452) | \$ (285,452) |
| Direct Pumping in Ratesetting | \$ 125,000 | \$ - | \$ 125,000 |
| Sub Total | \$ 4,244,927 | \$ - | \$ 4,244,927 |
| <u>Non-Recurring O&M Storage</u> | | | |
| Gianelli Pump/Gen Plant - San Felipe Unit | \$ - | \$ - | \$ - |
| Gianelli Pump/Gen Plant - All Other Contractors | \$ 279,948 | \$ 2,661 | \$ 282,609 |
| All Other Storage | \$ 526,794 | \$ 7,023 | \$ 533,817 |
| Total Non-Recurring Storage | 2/ \$ 806,742 | \$ 9,684 | \$ 816,426 |
| <u>Conveyance</u> | | | |
| | \$ 23,199 | \$ - | \$ 23,199 |
| Less Direct Billed | \$ (23,199) | \$ - | \$ (23,199) |
| Net Conveyance Pumping | \$ - | \$ - | \$ - |
| <u>Conveyance Pumping - Dos Amigos</u> | | | |
| | \$ 34,798 | \$ 112,289 | \$ 147,088 |
| Less Direct Billed | \$ (34,798) | \$ (112,289) | \$ (147,088) |
| Net Conveyance Pumping | \$ - | \$ - | \$ - |
| <u>Direct Pumping</u> | | | |
| | 4/ \$ 96,490 | \$ 162,596 | \$ 259,086 |
| Total Non-Recurring O&M: | \$ 903,232 | \$ 172,280 | \$ 1,075,512 |
| <u>Water Marketing Expense</u> | | | |
| Suisun Marsh Protection | \$ 90,720 | \$ - | \$ 90,720 |
| Water Contract Administration | \$ 999,912 | \$ - | \$ 999,912 |
| Water & Power Systems Control | \$ 1,099,138 | \$ - | \$ 1,099,138 |
| Other Expenses | \$ 1,687,772 | \$ - | \$ 1,687,772 |
| Hazardous Materials Management Program | \$ 42,887 | \$ - | \$ 42,887 |
| General Expense | \$ 59,327 | \$ - | \$ 59,327 |
| Coleman National Fish Hatchery | \$ 386,774 | \$ - | \$ 386,774 |
| Water Wheeling | \$ 308,636 | \$ - | \$ 308,636 |
| Non-Permanent Contractor Revenue | \$ (445,069) | \$ - | \$ (445,069) |
| Total Water Marketing | \$ 4,230,097 | \$ - | \$ 4,230,097 |
| Grand Total | \$ 9,378,257 | \$ 172,280 | \$ 9,550,537 |

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Footnotes:

1/ Suballocation of San Felipe Unit Direct Pumping Costs:

| | Projected FY 2022 Deliveries <Sch A-12> | Ratios | Direct Pumping Allocation (Sch A-11) | | | |
|-----------------------|--|-----------------|--|---------------------|------------------|---------------------|
| | | | William R. Gianelli Pump-Generator Plant PUE | Pacheco PP | Coyote PP | Grand Total |
| San Benito County WD | 5,406 | 0.061897 | \$ 14,525 | \$ 63,856 | | \$ 78,381 |
| Santa Clara Valley WD | 81,932 | 0.938103 | \$ 220,139 | \$ 967,789 | \$ 91,063 | \$ 1,278,990 |
| | 87,338 | 1.000000 | \$ 234,664 | \$ 1,031,645 | \$ 91,063 | \$ 1,357,371 |
| Total San Felipe | 87,338 | 0.256324 | | | | |
| All Other Contractors | 253,396 | 0.743676 | | | | |
| Total Storage | 340,734 | 1.000000 | | | | |

2/ Storage Costs are broken down between San Felipe Unit Contractors and all others as follows:

| | San Felipe Unit Storage | All Other Contractors Storage | Total |
|---|----------------------------|-------------------------------------|---------------------|
| Projected 2022 Storage Deliveries | 87,338 | 253,396 | 340,734 |
| Ratios | 0.256324 | 0.743676 | 1.000000 |
| Allocated Gianelli, WR Pump Generator Costs - Routine | | | |
| Project Use Costs | * | \$ 680,833 | \$ 680,833 |
| Regeneration Credit | \$ - | \$ (633,324) | \$ (633,324) |
| Allocated Storage O&M Costs | \$ 1,087,638 | \$ 3,155,579 | \$ 4,243,217 |
| Allocated Storage O&M Costs - Non-Recurring O&M | \$ 136,830 | \$ 396,987 | \$ 533,817 |
| Allocated Gianelli, WR Pump Generator Costs- XM | | | |
| Gianelli (includes PUE) | | \$ 282,609 | \$ 282,609 |
| Total | \$ 1,224,468 | \$ 3,882,684 | \$ 5,107,152 |
| Cost per Acre-foot (to Schedule A-8) | \$14.02 | \$15.32 | |

*San Felipe Unit contractors' share of the William R. Gianelli PG PUE has been included in the direct pumping section (see Schedule A-11, page 2)

3/ Project Use Energy payment is being remitted to Western Area Power Authority for storage and direct pumping based on the deliveries of a select few contractors. The rates for the select few contractors are reduced as a credit in the O&M rates. All contractors will ultimately pay for the storage and direct pumping service but as an offset to the amount paid by the select few. Refer to schedule A-11 for calculation details.

4/ Non-recurring Direct Pumping (XM) rate to Schedule A-2A.

| | M&I Costs Estimate for 2022 | Projected Deliveries from Sch A-12 | 2022 Water Rate |
|--|--------------------------------|---------------------------------------|-----------------|
| Gianelli PGP - SFU | \$ 109,632.37 | 87,338 | \$ 1.26 |
| Contra Costa PP | \$ 68,607.08 | 84,489 | \$ 0.81 |
| Colusa CWD (Incl. Arb./Will O&M Office) - TCC | \$ 105.84 | 125 | \$ 0.85 |
| Kanawha WD - TCC | \$ 2.26 | 23 | \$ 0.10 |
| Pleasant Valley PP - Westlands WD - SLC | \$ - | 2,670 | \$ - |
| Pleasant Valley Relifts - Westlands WD - SLC | \$ - | 2,670 | \$ - |
| San Luis WD Relifts - SLC | \$ 575.66 | 442 | \$ 1.30 |
| Westlands WD Relifts - SLC | \$ 1,298.94 | 2,670 | \$ 0.49 |
| Coyote PP - Santa Clara Valley WD - SFU | \$ 5,099.98 | 81,932 | \$ 0.06 |
| Pacheco PP - SFU | \$ 57,777.25 | 87,338 | \$ 0.66 |
| Panoche WD - SLC | \$ - | 106 | \$ - |
| Pleasant Valley PP - City of Coalinga - SLC | \$ 8,562.54 | 5,584 | \$ 1.53 |
| State-Delta PP - Cross Valley Canal (CVC) | \$ 201.80 | 278 | \$ 0.73 |
| Dos Amigos PP - CVC (Offset with Direct Pumping) | \$ 133.47 | 278 | \$ 0.48 |
| Wintu PP - Bella Vista WD - Cow Creek | \$ 6,990.59 | 3,934 | \$ 1.78 |
| City of Shasta Lake (Shasta PP) - TP | \$ 98.31 | 1,178 | \$ 0.08 |
| Total | \$ 259,086.09 | | |