**RECLAMATION DISTRICT NO. 1614**

**AGENDA FOR**
**BOARD OF TRUSTEES MEETING**
**2:00 P.M. FEBRUARY 6, 2023**

**Location: 3121 West March Lane, Suite 100**
**Stockton, CA 95219**

## AGENDA

1. Call to Order/Roll Call.

2. Public Comment. The public may comment on any matter within the District's jurisdiction that is not on the agenda. Matters on the agenda may be commented on by the public when the matter is taken up. All comments are limited to 5 minutes for general public comment and per agenda item in accordance with Resolution 2014-06.

3. Presentation of Financial Status Report. Discussion and possible action.

4. Presentation of Engineer's Report. Discussion, direction, and possible action for following items:
    a. SJAFCA Smith Canal Gate – Review the area between the north cellular wall and RD 1614's levee through the remaining channel opening of approximately 65 feet in width.
    b. Rock Slope Protection Project – Review status of plan development for candidate properties for Rock Slope Protection and Beaver Damage repairs along Smith Canal.
    c. Wisconsin Pump Station
        i. Review likely schedule for Arnaudo Construction Co. to perform the pump testing.
        ii. Review Power Services Pump Testing that was run during the heavy rainfall event in January.
    d. 2023 High Water Event – Review the Governor's emergency declaration and the subsequent Presidential declaration for the ongoing high-water event.

5. Resolution 2023-01. Review emergency situation due to flood risk and damage resulting from severe storms to determine the need to continue the action.

6. Resolution 2022-08. Review emergency situation resulting from increased channel velocities and scour in the area between north cellular wall of the partially completed Smith Canal Gate Project and the right-side levee within the District to determine the need to continue the action.

7. Letter of Map Revision. Discussion and possible action to select consultant to provide engineering services and submit Letter of Map Revision and authorize District Official to execute consultant agreement.

*This agenda shall be made available upon request in alternative formats to persons with a disability, as required by the Americans with Disabilities Act of 1990 (42 U.S.C. § 12132) and the Ralph M. Brown Act (California Government Code §54954.2). Persons requesting a disability related modification or accommodation in order to participate in the meeting should contact Rhonda Olmo at 209/948-8200 during regular business hours, at least forty-eight hours prior to the time of the meeting.*

*Materials related to an item on this Agenda submitted to the Trustees after distribution of the agenda packet are available for public inspection in the office of the District Secretary at Neumiller & Beardslee, 3121 West March Lane, Suite 100, Stockton, California during normal business hours. The agenda is also available on the Reclamation District website at: http://www.rd1614.com/*

8. Presentation of Superintendent's Report; request for direction.
9. District Newsletter. Discussion and direction.
10. Report on Meetings Attended.
11. District Calendar.
    a. Next Meeting is March 6, 2023
12. Items for future meetings.
13. Correspondence. Discussion and direction.
14. Staff Report.
    a. AB 1234 and AB 1661 Training provided by Neumiller & Beardslee
15. Bills. Discussion and Possible Action to approve bills presented.
16. Report on San Joaquin Area Flood Control Agency's Smith Canal Gate Structure Project
17. Adjournment.

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*Materials related to an item on this Agenda submitted to the Trustees after distribution of the agenda packet are available for public inspection in the office of the District Secretary at Neumiller & Beardslee, 3121 West March Lane, Suite 100, Stockton, California during normal business hours. The agenda is also available on the Reclamation District website at: http://www.rd1614.com/*

**AGENDA PACKET**
**RECLAMATION DISTRICT 1614**
**FEBRUARY 6, 2023**

| ITEM | COMMENTARY |
|---|---|
| 1. | Self-explanatory. |
| 2. | Self-explanatory. |
| 3. | Please see attached. |
| 4. | Please see attached. |
| 5. | Please see attached. |
| 6. | Please see attached. |
| 7. | Self-explanatory. |
| 8. | Please see attached. |
| 9. | Self-explanatory. |
| 10. | Self-explanatory. |
| 11. | Please see attached. |
| 12. | Self-explanatory. |
| 13. | Self-explanatory. |
| 14. | Self-explanatory. |
| 15. | Please see attached. |
| 16. | Self-explanatory. |
| 17. | Self-explanatory. |

# ITEM 3

**RECLAMATION DISTRICT 1614**
**FINANCIAL REPORT MEETING FEBRUARY 2023 MEETING**
**% OF FISCAL YEAR ELAPSED THROUGH END OF JANUARY - 58.3%**

| | Budget Item | Budget Amount | Expended MTD | Expended YTD | % YTD |
|---|---|---|---|---|---|
| | **GENERAL FUND** | | | | |
| | **Administrative** | | | | |
| G1 | Annual Audit | $ 7,500.00 | $0.00 | $0.00 | 0.00% |
| G2 | Public Communication & Noticing | 5,000.00 | $0.00 | $1,017.50 | 20.35% |
| G3 | Election Expense | 30,000.00 | $0.00 | $1,072.44 | 3.57% |
| G4 | Superintendent | 50,000.00 | $7,342.74 | $26,020.55 | 52.04% |
| G4a | Secretary | 16,000.00 | $1,322.50 | $9,270.00 | 57.94% |
| G5 | Workers' Compensation | 2,500.00 | $0.00 | $1,070.64 | 42.83% |
| G6 | Trustee Fees | 4,000.00 | $400.00 | $1,500.00 | 37.50% |
| G7 | County Assessment Administration | 8,000.00 | $4,962.26 | $4,962.26 | 62.03% |
| G7A | General Assessment Administration (Engineers) | 5,000.00 | $0.00 | $7,369.99 | 147.40% |
| G8 | Office Supplies | 700.00 | $0.00 | $868.95 | 124.14% |
| G9 | Communication (phones, radios, etc.) | 4,000.00 | $209.31 | $1,429.92 | 35.75% |
| G12 | Education/Memberships | 5,000.00 | $0.00 | $2,203.00 | 44.06% |
| G13 | Non Management Staff | 7,500.00 | $0.00 | $0.00 | 0.00% |
| G13A | LOMR | | $0.00 | $8,250.00 | 0.00% |
| | **TOTAL** | **$145,200.00** | **$14,236.81** | **$65,035.25** | **44.79%** |
| | **Consultants** | | | | |
| G14 | General Engineering | $ 30,000.00 | $1,603.44 | $14,833.70 | 49.45% |
| G15 | General Legal | 30,000.00 | $2,981.56 | $19,519.41 | 65.06% |
| | **TOTAL** | **$ 60,000.00** | **$4,585.00** | **$34,353.11** | **57.26%** |
| | **Property & Equipment** | | | | |
| G16 | Operation & Maintenance | $ 3,000.00 | $0.00 | $18.38 | 0.61% |
| G16A | District Vehicle Expenses | 3,500.00 | $0.00 | $1,743.50 | 49.81% |
| G17 | Acquisitions | 0.00 | $0.00 | $0.00 | 0.00% |
| G18 | Flood Fight Supplies | 0.00 | $0.00 | $0.00 | 0.00% |
| | **TOTAL** | **$ 6,500.00** | **$0.00** | **$1,761.88** | **27.11%** |
| | **Other** | | | | |
| G19 | Insurance | $ 15,000.00 | $0.00 | $15,499.76 | 103.33% |
| | **TOTAL** | **$ 15,000.00** | **$0.00** | **$15,499.76** | **103.33%** |
| | **TOTAL GENERAL FUND** | **$ 226,700.00** | **$ 18,821.81** | **$ 116,650.00** | |
| | **RECURRING EXPENSES** | | | | |
| | **Levee** | | | | |
| R1 | General Maintenance | $ 15,000.00 | $648.75 | $6,593.75 | 43.96% |
| R1A | Engineering - General | 25,000.00 | $386.25 | $8,115.51 | 32.46% |
| R1C | Riprap and Levee Repair | 350,000.00 | $1,467.93 | $33,885.66 | 9.68% |
| R1D | DWR 5 Year Plan | 0.00 | $123.75 | $273.75 | 0.00% |
| R1E | Storm Damage and Preparation | 0.00 | $1,942.21 | $1,942.21 | 0.00% |
| | **TOTAL** | **$ 390,000.00** | **$4,568.89** | **$48,868.67** | **12.53%** |
| | **Drainage** | | | | |
| R2 | Electricity | $ 15,000.00 | $7,933.18 | $13,080.65 | 87.20% |
| R3 | Sump Clearing | 30,000.00 | $0.00 | $5,409.59 | 18.03% |
| R4 | Plant O&M | 75,000.00 | $7,347.27 | $14,726.38 | 19.64% |
| R4A | Pest Control | 3,000.00 | $220.00 | $1,623.20 | 54.11% |
| R5 | Wisconsin Pump Station Design | 0.00 | $0.00 | $175.00 | 0.00% |
| R6 | Wisconsin Pump Station Construction | 0.00 | $260.00 | $64,466.71 | 0.00% |
| | **TOTAL** | **$ 123,000.00** | **$15,760.45** | **$99,481.53** | **80.88%** |
| | **TOTAL RECURRING EXPENSES** | **$ 513,000.00** | **$ 20,329.34** | **$ 148,350.20** | |
| | **TOTAL EXPENSE BUDGET** | **$ 739,700.00** | **$ 39,151.15** | **$ 265,000.20** | |

| Budget Item | Budget Amount | Expended MTD | Expended YTD | % YTD |
|---|---|---|---|---|
| **INCOME** | | | | |
| **Anticipated** | | | | |
| Assessment - Existing | $ 346,725.80 | $185,314.62 | $183,334.77 | 52.88% |
| Assessment - Wisconsin | 97,090.00 | $28,035.15 | $64,105.31 | 66.03% |
| Interest | 5,000.00 | $0.00 | $9,275.00 | 185.50% |
| Property Tax | 150,000.00 | $96,156.29 | $97,104.54 | 64.74% |
| Subvention Reimbursement | 252,644.42 | $0.00 | $0.00 | 0.00% |
| 2019-2020 DWR 5-Year Plan | 0.00 | $0.00 | $0.00 | 0.00% |
| Delta Grant II - Flood Fight Supplies | 0.00 | $0.00 | $0.00 | 0.00% |
| **TOTAL** | **$ 851,460.22** | **$309,506.06** | **$353,819.62** | **41.55%** |
| **TOTAL NET INCOME (LOSS)** | **$ 111,760.22** | | | |
| O&M Fund Balance (as of 1/31/2023) | | **$2,291,437.57** | | |
| Wisconsin Fund Balance (as of 1/31/23) | | **$63,800.34** | | |
| Proposed Expenses | | **$39,151.15** | | |
| **TOTAL CASH** | | **$ 2,316,086.76** | | |
| Checking Account Balance (as of 1/31/23) | | **$12,006.12** | | |
| **TOTAL CASH ON HAND** | | **$ 2,328,092.88** | | |

Wisconsin Pump Station Costs: $869,828.86
See attached for details.

| TRANSFER NUMBER | TRANSFER DATE | TRANSFER AMOUNT | INTEREST TO DATE | TOTAL AMOUNT DUE WITH INTEREST |
|---|---|---|---|---|
| 1 | 1/5/2022 | $492,918.87 | $ 1,267.25 | $494,186.12 |
| 2 | 1/5/2022 | $231,315.14 | $ 594.69 | $231,909.83 |
| 3 | 2/3/2022 | $66,386.00 | $ 143.77 | $66,529.77 |
| 4 | 5/3/2022 | $7,058.20 | $ 4.21 | $7,062.41 |
| 5 | 6/7/2022 | $47,436.70 | $ 13.30 | $47,450.00 |
| 7 | 10/4/2022 | $22,670.51 | $ 20.22 | $22,690.73 |
| Subtotals | | $867,785.42 | $ 2,043.44 | **$869,828.86** |

# ITEM 4

# RECLAMATION DISTRICT NO. 1614
# SMITH TRACT



## BOARD OF TRUSTEES MEETING
## MONDAY, FEBRUARY 6, 2023
## 2:00 PM
## ENGINEER'S REPORT

### I. SJAFCA SMITH CANAL GATE

A. Review the area between the north cellular wall and RD 1614's levee through the remaining channel opening of approximately 65 feet in width.

### II.ROCK SLOPE PROTECTION PROJECT (2022-2023)

A. Review status of plan development for candidate properties for Rock Slope Protection and Beaver Damage repairs along Smith Canal.

### III. WISCONSIN PUMP STATION NO. 7

A. Review likely schedule for Arnaudo Construction Co. to perform the pump testing.

B. Review Power Services Pump Testing that was run during the heavy rainfall event in January. This does not replace the ultimate testing by Arnaudo Construction Co.

***EXHIBIT A: Pump Test for Pump No. 1 (old 40 hp)***

***EXHIBIT B: Pump Test for Pump No. 2 (old 30 hp)***

***EXHIBIT C: Pump Test(s) for Pump No. 3 (new 75 hp***

***EXHIBIT D: Pump Test(s) for Pump No. 4 (new 75 hp***

### IV. 2023 HIGH WATER EVENT

A. Review the Governors Emergency Declaration and the subsequent Presidents declaration for the on-going high-water event.

***EXHIBIT E: Governor Newsom's Proclamation of a State of Emergency.***

# Exhibit A

Power Services, Inc.

6301 Bearden Lane
Modesto, CA 95357
209.527.2908
fax
cal.powerhydrodynamics.com

Report ID: PT-27312

**CONFIDENTIAL/PROPRIETARY INFORMATION**

Abel Palacio
Rec Dist 1614
P.O. Box 4807
Stockton, CA 95204

Friday, Jan 13, 2023

SUBJECT: PUMPING COST ANALYSIS
HP: 40.00 Plant: Wisconsin Pump 1 West 712
PUMP TEST REFERENCE NUMBER: PT-27312
PUMP TEST RUN: Run 1

The following Pumping Cost Analysis is presented as an aid to your cost accounting. This analysis is an estimate prepared from operating criteria supplied from the pump test performed Jan 12 2023 and information provided by you during the pump test.

It is recommended and assumed that:

- **Overall plant efficiency can be improved to: 61%**
- **Water requirements will be the same as for the past year**
- **All operating conditions (annual hours of operation, discharge head, and water pumping level) will remain the same as they were at the time of the pump test**

| | EXISTING PLANT EFFICIENCY | IMPROVED PLANT EFFICIENCY | SAVINGS |
|---|---|---|---|
| kWh/AF | 33.8 | 31.3 | 2.50 |
| Estimated Total kWh | 25,601 | 23,731 | 1,870 |
| Average Cost per kWh | $0.18 | $0.18 | |
| Average Cost per hour | $4.73 | $6.73 | * |
| Cost Per Acre Ft. | $6.23 | $5.78 | $0.46 |
| Estimated Acre Ft. Per Year | 758.08 | 758.08 | |
| Run Hours | 1,000.00 | 1,000.00 | |
| Overall Plant Efficiency | 56.5% | 61% | |
| Estimated Total Annual Cost | $4,726.40 | $4,381.17 | $345.23 |

It is sincerely hoped that this information will prove helpful to you, and that your concerns over maintaining optimum pumping efficiency will be continued. If you have any questions, please contact Bill Power at (209) 527-2908.

Regards,

William Thomas Power, III

Enclosures

(PUMP 1 - OLD)

Power Services, Inc.

6301 Bearden Lane
Modesto, CA 95357
209.527.2908
fax
cal.powerhydrodynamics.com

Report ID: PT-27312

# Agricultural and Domestic Pump Test Report
## Rec Dist 1614 - Wisconsin Pump 1 West 712 - Run 1

Latitude: 37.96951 | Longitude: -121.35112 | Elevation: 13
Test Date: Jan 12 2023 | Tester: Bill Power | Nameplate HP: 40.00

### Customer Information

**Rec Dist 1614**

P.O. Box 4807
Stockton, CA 95204

Contact: Abel Palacio
Cell: 209-992-2827

### Power Company Data

**PG&E**

Meter #: **1010433779**
Rate Schedule: **AG5B**
Average Cost: **$0.18**

### Equipment Data

Motor Make: **U.S.**
Volts/Amps: **440V/51.00A**
Serial #: **1063350**
Pump Make: **Byron Jackson**
Pump Type: **Mix Flow**
Drive Type: **Electric Motor**
Gearhead Make:

### Hydraulic Data

Pumping Water Level (PWL): 8.50 ft
Discharge Pressure: 4.40 PSI
Discharge Level: 10.16 ft
Total Lift: 18.66 ft
Water Source: Sump

### Flow Data

Run Number: 1 of 1
Measured Flow: 4117 gpm
Customer Flow: 0 gpm
Flow Velocity: 4.2 ft/sec
Acre Feet per 24 Hr: 18.22
Cubic Feet Per Second (CFS): 9.17 ft

### Power Data

Horsepower Input to Motor: 34.32 hp
Brake Horsepower: 30.88 hp
Kilowatt Input to Motor: 25.6 kW
Energy Cost: $4.73/hr
Nameplate RPM: 1200 rpm
VFD: 0 hz

Percent of Rated Motor Load: 77%
Kilowatt Hours per Acre Foot: 33.77
Cost to Pump an Acre Foot: $6.23
**Overall Plant Efficiency: 56.54%**
Water Horsepower: 19.4 hp
Run Hours: 1000

### Remarks

All results are based on conditions during the time of the test. If these conditions vary from the normal operation of your pump, the results shown may not describe the pump's normal performance.

This pump has an adequate test section.

This pump did not have a flow meter.

Based on information obtained at the time the test was performed, this test represents the pumps standard operating conditions.

HPI measured with direct read KWI.

Overall efficiency of this plant is considered to be fair assuming this run represents plant's normal operating condition.

Power Services, Inc.

6301 Bearden Lane
Modesto, CA 95357
209.527.2908
fax
cal.powerhydrodynamics.com

Report ID: PT-27312

Abel Palacio
Rec Dist 1614
P.O. Box 4807
Stockton, CA 95204

**Pump Name:** Wisconsin Pump 1 West 712

**HYDRAULIC TEST RESULTS** PT-27312 **Test Date:** Jan 12 2023

**Tester:** Bill Power
**Meter #:** 1010433779
**Annual Run Hrs:** 1000
**Utility:** PG&E
**Rate Sched:** AG5B
**Avg Cost kWh:** $0.18
**Meter kH:** 1.80
**Meter Const:** 80

**Motor Make:** U.S.
**Volts:** 440
**Gearhead Make:**
**Pump Make:** Byron Jackson
**Water Source:** Sump
**Motor Serial:** 1063350
**Amps:** 51.00
**NameplateRPM:** 1200
**Pump Type:** Mix Flow
**Horsepower:** 40.00
**Drive Type:** Electric Motor
**Pipe Diameter:** 20.00

| **Results** | **Test 1** |
|---|---|
| Discharge Pressure, PSI | 4.40 |
| Standing Water Level, Feet | 0 |
| Recovered Water Level | 0.00 |
| Drawdown, Feet | 8.5 |
| Discharge Head, Feet | 10.16 |
| Pumping Water Level, Feet | 8.50 |
| Total Measured Head, Feet | 18.664 |
| Measured GPM | 4117.00 |
| Customer Meter, GPM | |
| Well Yield, GPM/ft Drawdown | 484.35 |
| Acre Feet Pumped in 24 Hours | 18.22 |
| kW Input to Motor | 25.6 |
| HP Input to Motor | 34.32 |
| Motor Load % | 77.2 |
| Measured Speed of Pump, RPM | |
| VFD, Hz: | |
| **kWh per Acre Foot** | **33.77** |
| **Overall Plant Efficiency (%)** | **56.5** |
| Energy Cost per Hour | 4.73 |
| Water Horsepower, hp | 19.4 |
| Flow Velocity, ft/sec | 4.2 |

# Exhibit B

Power Services, Inc.

6301 Bearden Lane
Modesto, CA 95357
209.527.2908
fax
cal.powerhydrodynamics.com

Report ID: PT-27313

**CONFIDENTIAL/PROPRIETARY INFORMATION**

Abel Palacio
Rec Dist 1614
P.O. Box 4807
Stockton, CA 95204

Friday, Jan 13, 2023

SUBJECT: PUMPING COST ANALYSIS
HP: 30.00 Plant: Wisconsin Pump 2 East 711
PUMP TEST REFERENCE NUMBER: PT-27313
PUMP TEST RUN: Run 1

The following Pumping Cost Analysis is presented as an aid to your cost accounting. This analysis is an estimate prepared from operating criteria supplied from the pump test performed Jan 12 2023 and information provided by you during the pump test.

It is recommended and assumed that:

- **Overall plant efficiency can be improved to: 61%**
- **Water requirements will be the same as for the past year**
- **All operating conditions (annual hours of operation, discharge head, and water pumping level) will remain the same as they were at the time of the pump test**

| | EXISTING PLANT EFFICIENCY | IMPROVED PLANT EFFICIENCY | SAVINGS |
|---|---|---|---|
| kWh/AF | 46.2 | 29.7 | 16.50 |
| Estimated Total kWh | 23,201 | 14,919 | 8,281 |
| Average Cost per kWh | $0.18 | $0.18 | |
| Average Cost per hour | $4.28 | $5.11 | * |
| Cost Per Acre Ft. | $8.52 | $5.48 | $3.04 |
| Estimated Acre Ft. Per Year | 502.50 | 502.50 | |
| Run Hours | 1,000.00 | 1,000.00 | |
| Overall Plant Efficiency | 39.2% | 61% | |
| Estimated Total Annual Cost | $4,283.30 | $2,754.42 | $1,528.88 |

It is sincerely hoped that this information will prove helpful to you, and that your concerns over maintaining optimum pumping efficiency will be continued. If you have any questions, please contact Bill Power at (209) 527-2908.

Regards,

William Thomas Power, III

Enclosures

PUMP 2 - OLD

Power Services, Inc.

6301 Bearden Lane
Modesto, CA 95357
209.527.2908
fax
cal.powerhydrodynamics.com

Report ID: PT-27313

# Agricultural and Domestic Pump Test Report
## Rec Dist 1614 - Wisconsin Pump 2 East 711 - Run 1

Latitude: 37.96951 | Longitude: -121.35109 | Elevation: 13
Test Date: Jan 12 2023 | Tester: Bill Power | Nameplate HP: 30.00

### Customer Information

**Rec Dist 1614**

P.O. Box 4807
Stockton, CA 95204

Contact: Abel Palacio
Cell: 209-992-2827

### Power Company Data

**PG&E**

Meter #: **1010433779**
Rate Schedule: **AG5B**
Average Cost: **$0.18**

### Equipment Data

Motor Make: **U.S.**
Volts/Amps: **440V/40.00A**
Serial #: **1242398**
Pump Make: **No Name Plate**
Pump Type: **Mix Flow**
Drive Type: **Electric Motor**
Gearhead Make:

### Hydraulic Data

Pumping Water Level (PWL): 8.00 ft
Discharge Pressure: 4.20 PSI
Discharge Level: 9.7 ft
Total Lift: 17.7 ft
Water Source: Sump

### Flow Data

Run Number: 1 of 1
Measured Flow: 2729 gpm
Customer Flow: 0 gpm
Flow Velocity: 3.44 ft/sec
Acre Feet per 24 Hr: 12.08
Cubic Feet Per Second (CFS): 6.08 ft

### Power Data

Horsepower Input to Motor: 31.1 hp
Brake Horsepower: 27.68 hp
Kilowatt Input to Motor: 23.2 kW
Energy Cost: $4.28/hr
Nameplate RPM: 900 rpm
VFD: 0 hz

Percent of Rated Motor Load: 92%
Kilowatt Hours per Acre Foot: 46.17
Cost to Pump an Acre Foot: $8.52
**Overall Plant Efficiency: 39.23%**
Water Horsepower: 12.2 hp
Run Hours: 1000

### Remarks

All results are based on conditions during the time of the test. If these conditions vary from the normal operation of your pump, the results shown may not describe the pump's normal performance.

This pump has an adequate test section.

This pump did not have a flow meter.

Based on information obtained at the time the test was performed, this test represents the pumps standard operating conditions.

HPI measured with direct read KWI.

Overall efficiency of this plant is considered to be very low assuming this run represents plant's normal operating condition.

Power Services, Inc.

6301 Bearden Lane
Modesto, CA 95357
209.527.2908
fax
cal.powerhydrodynamics.com

Report ID: PT-27313

Abel Palacio
Rec Dist 1614
P.O. Box 4807
Stockton, CA 95204

**Pump Name:** Wisconsin Pump 2 East 711

**HYDRAULIC TEST RESULTS** PT-27313 **Test Date:** Jan 12 2023

**Tester:** Bill Power
**Meter #:** 1010433779
**Annual Run Hrs:** 1000
**Utility:** PG&E
**Rate Sched:** AG5B
**Avg Cost kWh:** $0.18
**Meter kH:** 1.80
**Meter Const:** 80

**Motor Make:** U.S.
**Volts:** 440
**Gearhead Make:**
**Pump Make:** No Name Plate
**Water Source:** Sump
**Motor Serial:** 1242398
**Amps:** 40.00
**NameplateRPM:** 900
**Pump Type:** Mix Flow
**Horsepower:** 30.00
**Drive Type:** Electric Motor
**Pipe Diameter:** 18.00

| **Results** | **Test 1** |
|---|---|
| Discharge Pressure, PSI | 4.20 |
| Standing Water Level, Feet | 0 |
| Recovered Water Level | 0.00 |
| Drawdown, Feet | 8 |
| Discharge Head, Feet | 9.7 |
| Pumping Water Level, Feet | 8.00 |
| Total Measured Head, Feet | 17.702 |
| Measured GPM | 2729.00 |
| Customer Meter, GPM | |
| Well Yield, GPM/ft Drawdown | 341.13 |
| Acre Feet Pumped in 24 Hours | 12.08 |
| kW Input to Motor | 23.2 |
| HP Input to Motor | 31.1 |
| Motor Load % | 92.3 |
| Measured Speed of Pump, RPM | |
| VFD, Hz: | |
| **kWh per Acre Foot** | **46.17** |
| **Overall Plant Efficiency (%)** | **39.2** |
| Energy Cost per Hour | 4.28 |
| Water Horsepower, hp | 12.2 |
| Flow Velocity, ft/sec | 3.44 |

# Exhibit C

Power Services, Inc.

6301 Bearden Lane
Modesto, CA 95357
209.527.2908
fax
cal.powerhydrodynamics.com

Report ID: PT-27314

**CONFIDENTIAL/PROPRIETARY INFORMATION**

Abel Palacio
Rec Dist 1614
P.O. Box 4807
Stockton, CA 95204

Friday, Jan 13, 2023

SUBJECT: PUMPING COST ANALYSIS
HP: 75.00 Plant: Wisconsin Pump 3 Outside West
PUMP TEST REFERENCE NUMBER: PT-27314
PUMP TEST RUN: Run 1

The following Pumping Cost Analysis is presented as an aid to your cost accounting. This analysis is an estimate prepared from operating criteria supplied from the pump test performed Jan 12 2023 and information provided by you during the pump test.

It is recommended and assumed that:

- **Overall plant efficiency can be improved to: 66%**
- **Water requirements will be the same as for the past year**
- **All operating conditions (annual hours of operation, discharge head, and water pumping level) will remain the same as they were at the time of the pump test**

| | EXISTING PLANT EFFICIENCY | IMPROVED PLANT EFFICIENCY | SAVINGS |
|---|---|---|---|
| kWh/AF | 64.2 | 30.1 | 34.10 |
| Estimated Total kWh | 25,601 | 11,997 | 13,604 |
| Average Cost per kWh | $0.18 | $0.18 | |
| Average Cost per hour | $4.73 | $12.22 | * |
| Cost Per Acre Ft. | $11.85 | $5.55 | $6.29 |
| Estimated Acre Ft. Per Year | 399.02 | 399.02 | |
| Run Hours | 1,000.00 | 1,000.00 | |
| Overall Plant Efficiency | 30.9% | 66% | |
| Estimated Total Annual Cost | $4,726.40 | $2,214.82 | $2,511.58 |

It is sincerely hoped that this information will prove helpful to you, and that your concerns over maintaining optimum pumping efficiency will be continued. If you have any questions, please contact Bill Power at (209) 527-2908.

Regards,

William Thomas Power, III

Enclosures



PUMP 3 - NEW

Power Services, Inc.

6301 Bearden Lane
Modesto, CA 95357
209.527.2908
fax
cal.powerhydrodynamics.com

Report ID: PT-27314

# Agricultural and Domestic Pump Test Report
## Rec Dist 1614 - Wisconsin Pump 3 Outside West - Run 1

Latitude: 37.96951 | Longitude: -121.35114 | Elevation: 13
Test Date: Jan 12 2023 | Tester: Bill Power | Nameplate HP: 75.00

### Customer Information

**Rec Dist 1614**

P.O. Box 4807
Stockton, CA 95204

Contact: Abel Palacio
Cell: 209-992-2827

### Power Company Data

**PG&E**

Meter #: **1010433779**
Rate Schedule: **AG5B**
Average Cost: **$0.18**

### Equipment Data

Motor Make: **General Electric**
Volts/Amps: **460V/98.40A**
Serial #: **HRFT221U018**
Pump Make: **Prime**
Pump Type: **Mix Flow**
Drive Type: **Electric Motor**
Gearhead Make:

### Hydraulic Data

Pumping Water Level (PWL): 9.00 ft
Discharge Pressure: 4.50 PSI
Discharge Level: 10.4 ft
Total Lift: 19.4 ft
Water Source: Sump

### Flow Data

Run Number: 1 of 4
Measured Flow: 2167 gpm
Customer Flow: 0 gpm
Flow Velocity: 1.54 ft/sec
Acre Feet per 24 Hr: 9.59
Cubic Feet Per Second (CFS): 4.83 ft

### Power Data

Horsepower Input to Motor: 34.32 hp
Brake Horsepower: 31.91 hp
Kilowatt Input to Motor: 25.6 kW
Energy Cost: $4.73/hr
Nameplate RPM: 890 rpm
VFD: 45 hz

Percent of Rated Motor Load: 43%
Kilowatt Hours per Acre Foot: 64.16
Cost to Pump an Acre Foot: $11.85
**Overall Plant Efficiency: 30.93%**
Water Horsepower: 10.61 hp
Run Hours: 1000

### Remarks

All results are based on conditions during the time of the test. If these conditions vary from the normal operation of your pump, the results shown may not describe the pump's normal performance.

This pump has an adequate test section.

This pump did not have a flow meter.

HPI measured with direct read KWI.

Overall efficiency of this plant is considered to be very low assuming this run represents plant's normal operating condition.

Power Services, Inc.

6301 Bearden Lane
Modesto, CA 95357
209.527.2908
fax
cal.powerhydrodynamics.com

Report ID: PT-27314

**CONFIDENTIAL/PROPRIETARY INFORMATION**

Abel Palacio
Rec Dist 1614
P.O. Box 4807
Stockton, CA 95204

Friday, Jan 13, 2023

SUBJECT: PUMPING COST ANALYSIS
HP: 75.00 Plant: Wisconsin Pump 3 Outside West
PUMP TEST REFERENCE NUMBER: PT-27314
PUMP TEST RUN: Run 2

The following Pumping Cost Analysis is presented as an aid to your cost accounting. This analysis is an estimate prepared from operating criteria supplied from the pump test performed Jan 12 2023 and information provided by you during the pump test.

It is recommended and assumed that:

- **Overall plant efficiency can be improved to: 66%**
- **Water requirements will be the same as for the past year**
- **All operating conditions (annual hours of operation, discharge head, and water pumping level) will remain the same as they were at the time of the pump test**

| | EXISTING PLANT EFFICIENCY | IMPROVED PLANT EFFICIENCY | SAVINGS |
|---|---|---|---|
| kWh/AF | 49 | 30.4 | 18.60 |
| Estimated Total kWh | 30,401 | 18,879 | 11,522 |
| Average Cost per kWh | $0.18 | $0.18 | |
| Average Cost per hour | $5.61 | $12.22 | * |
| Cost Per Acre Ft. | $9.04 | $5.62 | $3.43 |
| Estimated Acre Ft. Per Year | 620.53 | 620.53 | |
| Run Hours | 1,000.00 | 1,000.00 | |
| Overall Plant Efficiency | 41% | 66% | |
| Estimated Total Annual Cost | $5,612.60 | $3,485.40 | $2,127.21 |

It is sincerely hoped that this information will prove helpful to you, and that your concerns over maintaining optimum pumping efficiency will be continued. If you have any questions, please contact Bill Power at (209) 527-2908.

Regards,

William Thomas Power, III

Enclosures

Power Services, Inc.

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Modesto, CA 95357
209.527.2908
fax
cal.powerhydrodynamics.com

Report ID: PT-27314

# Agricultural and Domestic Pump Test Report
## Rec Dist 1614 - Wisconsin Pump 3 Outside West - Run 2

Latitude: 37.96951 | Longitude: -121.35114 | Elevation: 13
Test Date: Jan 12 2023 | Tester: Bill Power | Nameplate HP: 75.00

### Customer Information

**Rec Dist 1614**

P.O. Box 4807
Stockton, CA 95204

Contact: Abel Palacio
Cell: 209-992-2827

### Power Company Data

**PG&E**

Meter #: **1010433779**
Rate Schedule: **AG5B**
Average Cost: **$0.18**

### Equipment Data

Motor Make: **General Electric**
Volts/Amps: **460V/98.40A**
Serial #: **HRFT221U018**
Pump Make: **Prime**
Pump Type: **Mix Flow**
Drive Type: **Electric Motor**
Gearhead Make:

### Hydraulic Data

Pumping Water Level (PWL): 9.00 ft
Discharge Pressure: 4.60 PSI
Discharge Level: 10.63 ft
Total Lift: 19.63 ft
Water Source: Sump

### Flow Data

Run Number: 2 of 4
Measured Flow: 3370 gpm
Customer Flow: 0 gpm
Flow Velocity: 2.39 ft/sec
Acre Feet per 24 Hr: 14.91
Cubic Feet Per Second (CFS): 7.51 ft

### Power Data

Horsepower Input to Motor: 40.75 hp
Brake Horsepower: 37.9 hp
Kilowatt Input to Motor: 30.4 kW
Energy Cost: $5.61/hr
Nameplate RPM: 890 rpm
VFD: 50 hz

Percent of Rated Motor Load: 51%
Kilowatt Hours per Acre Foot: 48.99
Cost to Pump an Acre Foot: $9.04
**Overall Plant Efficiency: 40.99%**
Water Horsepower: 16.7 hp
Run Hours: 1000

### Remarks

All results are based on conditions during the time of the test. If these conditions vary from the normal operation of your pump, the results shown may not describe the pump's normal performance.
This pump has an adequate test section.
This pump did not have a flow meter.
HPI measured with direct read KWI.
Overall efficiency of this plant is considered to be very low assuming this run represents plant's normal operating condition.

Power Services, Inc.

Report ID: PT-27314

6301 Bearden Lane
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**CONFIDENTIAL/PROPRIETARY INFORMATION**

Abel Palacio
Rec Dist 1614
P.O. Box 4807
Stockton, CA 95204

Friday, Jan 13, 2023

SUBJECT: PUMPING COST ANALYSIS
HP: 75.00 Plant: Wisconsin Pump 3 Outside West
PUMP TEST REFERENCE NUMBER: PT-27314
PUMP TEST RUN: Run 3

The following Pumping Cost Analysis is presented as an aid to your cost accounting. This analysis is an estimate prepared from operating criteria supplied from the pump test performed Jan 12 2023 and information provided by you during the pump test.

It is recommended and assumed that:

- **Overall plant efficiency can be improved to: 66%**
- **Water requirements will be the same as for the past year**
- **All operating conditions (annual hours of operation, discharge head, and water pumping level) will remain the same as they were at the time of the pump test**

| | EXISTING PLANT EFFICIENCY | IMPROVED PLANT EFFICIENCY | SAVINGS |
|---|---|---|---|
| kWh/AF | 37.2 | 31.4 | 5.90 |
| Estimated Total kWh | 40,801 | 34,380 | 6,421 |
| Average Cost per kWh | $0.18 | $0.18 | |
| Average Cost per hour | $7.53 | $12.22 | * |
| Cost Per Acre Ft. | $6.87 | $5.79 | $1.08 |
| Estimated Acre Ft. Per Year | 1,096.51 | 1,096.51 | |
| Run Hours | 1,000.00 | 1,000.00 | |
| Overall Plant Efficiency | 55.6% | 66% | |
| Estimated Total Annual Cost | $7,532.70 | $6,347.20 | $1,185.50 |

It is sincerely hoped that this information will prove helpful to you, and that your concerns over maintaining optimum pumping efficiency will be continued. If you have any questions, please contact Bill Power at (209) 527-2908.

Regards,

William Thomas Power, III

Enclosures

Power Services, Inc.

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Report ID: PT-27314

# Agricultural and Domestic Pump Test Report
## Rec Dist 1614 - Wisconsin Pump 3 Outside West - Run 3

Latitude: 37.96951 | Longitude: -121.35114 | Elevation: 13
Test Date: Jan 12 2023 | Tester: Bill Power | Nameplate HP: 75.00

### Customer Information

**Rec Dist 1614**

P.O. Box 4807
Stockton, CA 95204

Contact: Abel Palacio
Cell: 209-992-2827

### Power Company Data

**PG&E**

Meter #: **1010433779**
Rate Schedule: **AG5B**
Average Cost: **$0.18**

### Equipment Data

Motor Make: **General Electric**
Volts/Amps: **460V/98.40A**
Serial #: **HRFT221U018**
Pump Make: **Prime**
Pump Type: **Mix Flow**
Drive Type: **Electric Motor**
Gearhead Make:

### Hydraulic Data

Pumping Water Level (PWL): 9.60 ft
Discharge Pressure: 4.60 PSI
Discharge Level: 10.63 ft
Total Lift: 20.23 ft
Water Source: Sump

### Flow Data

Run Number: 3 of 4
Measured Flow: 5955 gpm
Customer Flow: 0 gpm
Flow Velocity: 4.22 ft/sec
Acre Feet per 24 Hr: 26.35
Cubic Feet Per Second (CFS): 13.26 ft

### Power Data

Horsepower Input to Motor: 54.69 hp
Brake Horsepower: 50.86 hp
Kilowatt Input to Motor: 40.8 kW
Energy Cost: $7.53/hr
Nameplate RPM: 890 rpm
VFD: 55 hz

Percent of Rated Motor Load: 68%
Kilowatt Hours per Acre Foot: 37.21
Cost to Pump an Acre Foot: $6.87
**Overall Plant Efficiency: 55.61%**
Water Horsepower: 30.42 hp
Run Hours: 1000

### Remarks

All results are based on conditions during the time of the test. If these conditions vary from the normal operation of your pump, the results shown may not describe the pump's normal performance.
This pump has an adequate test section.
This pump did not have a flow meter.
HPI measured with direct read KWI.
Overall efficiency of this plant is considered to be low assuming this run represents plant's normal operating condition.

Power Services, Inc.

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Report ID: PT-27314

**CONFIDENTIAL/PROPRIETARY INFORMATION**

Abel Palacio
Rec Dist 1614
P.O. Box 4807
Stockton, CA 95204

Friday, Jan 13, 2023

SUBJECT: PUMPING COST ANALYSIS
HP: 75.00 Plant: Wisconsin Pump 3 Outside West
PUMP TEST REFERENCE NUMBER: PT-27314
PUMP TEST RUN: Run 4

The following Pumping Cost Analysis is presented as an aid to your cost accounting. This analysis is an estimate prepared from operating criteria supplied from the pump test performed Jan 12 2023 and information provided by you during the pump test.

It is recommended and assumed that:

- **Overall plant efficiency can be improved to: 66%**
- **Water requirements will be the same as for the past year**
- **All operating conditions (annual hours of operation, discharge head, and water pumping level) will remain the same as they were at the time of the pump test**

| | EXISTING PLANT EFFICIENCY | IMPROVED PLANT EFFICIENCY | SAVINGS |
|---|---|---|---|
| kWh/AF | 37.5 | 31.9 | 5.60 |
| Estimated Total kWh | 56,002 | 47,576 | 8,426 |
| Average Cost per kWh | $0.18 | $0.18 | |
| Average Cost per hour | $10.34 | $12.22 | * |
| Cost Per Acre Ft. | $6.93 | $5.88 | $1.04 |
| Estimated Acre Ft. Per Year | 1,492.95 | 1,492.95 | |
| Run Hours | 1,000.00 | 1,000.00 | |
| Overall Plant Efficiency | 56.1% | 66% | |
| Estimated Total Annual Cost | $10,339.01 | $8,783.43 | $1,555.58 |

It is sincerely hoped that this information will prove helpful to you, and that your concerns over maintaining optimum pumping efficiency will be continued. If you have any questions, please contact Bill Power at (209) 527-2908.

Regards,

William Thomas Power, III

Enclosures

Power Services, Inc.

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cal.powerhydrodynamics.com

Report ID: PT-27314

# Agricultural and Domestic Pump Test Report
## Rec Dist 1614 - Wisconsin Pump 3 Outside West - Run 4

Latitude: 37.96951 | Longitude: -121.35114 | Elevation: 13
Test Date: Jan 12 2023 | Tester: Bill Power | Nameplate HP: 75.00

### Customer Information

**Rec Dist 1614**

P.O. Box 4807
Stockton, CA 95204

Contact: Abel Palacio
Cell: 209-992-2827

### Power Company Data

**PG&E**

Meter #: **1010433779**
Rate Schedule: **AG5B**
Average Cost: **$0.18**

### Equipment Data

Motor Make: **General Electric**
Volts/Amps: **460V/98.40A**
Serial #: **HRFT221U018**
Pump Make: **Prime**
Pump Type: **Mix Flow**
Drive Type: **Electric Motor**
Gearhead Make:

### Hydraulic Data

Pumping Water Level (PWL): 9.70 ft
Discharge Pressure: 4.70 PSI
Discharge Level: 10.86 ft
Total Lift: 20.56 ft
Water Source: Sump

### Flow Data

Run Number: 4 of 4
Measured Flow: 8108 gpm
Customer Flow: 0 gpm
Flow Velocity: 5.75 ft/sec
Acre Feet per 24 Hr: 35.88
Cubic Feet Per Second (CFS): 18.06 ft

### Power Data

Horsepower Input to Motor: 75.07 hp
Brake Horsepower: 69.81 hp
Kilowatt Input to Motor: 56 kW
Energy Cost: $10.34/hr
Nameplate RPM: 890 rpm
VFD: 60 hz

Percent of Rated Motor Load: 93%
Kilowatt Hours per Acre Foot: 37.51
Cost to Pump an Acre Foot: $6.93
**Overall Plant Efficiency: 56.07%**
Water Horsepower: 42.09 hp
Run Hours: 1000

### Remarks

All results are based on conditions during the time of the test. If these conditions vary from the normal operation of your pump, the results shown may not describe the pump's normal performance.

This pump has an adequate test section.

This pump did not have a flow meter.

Based on information obtained at the time the test was performed, this test represents the pumps standard operating conditions.

HPI measured with direct read KWI.

Overall efficiency of this plant is considered to be fair assuming this run represents plant's normal operating condition.

Power Services, Inc.

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cal.powerhydrodynamics.com

Report ID: PT-27314

Abel Palacio
Rec Dist 1614
P.O. Box 4807
Stockton, CA 95204

**Pump Name:** Wisconsin Pump 3 Outside West

**HYDRAULIC TEST RESULTS** PT-27314 **Test Date:** Jan 12 2023

**Tester:** Bill Power
**Meter #:** 1010433779
**Annual Run Hrs:** 1000
**Utility:** PG&E
**Rate Sched:** AG5B
**Avg Cost kWh:** $0.18
**Meter kH:** 1.80
**Meter Const:** 80

**Motor Make:** General Electric
**Volts:** 460
**Gearhead Make:**
**Pump Make:** Prime
**Water Source:** Sump
**Motor Serial:** HRFT221U018
**Amps:** 98.40
**NameplateRPM:** 890
**Pump Type:** Mix Flow
**Horsepower:** 75.00
**Drive Type:** Electric Motor
**Pipe Diameter:** 24.00

| Results | Test 1 | Test 2 | Test 3 | Test 4 |
|---|---|---|---|---|
| Discharge Pressure, PSI | 4.50 | 4.60 | 4.60 | 4.70 |
| Standing Water Level, Feet | 0 | 0 | 0 | 0 |
| Recovered Water Level | 0.00 | 0.00 | 0.00 | 0.00 |
| Drawdown, Feet | 9 | 9 | 9.6 | 9.7 |
| Discharge Head, Feet | 10.4 | 10.63 | 10.63 | 10.86 |
| Pumping Water Level, Feet | 9.00 | 9.00 | 9.60 | 9.70 |
| Total Measured Head, Feet | 19.395 | 19.626 | 20.226 | 20.557 |
| Measured GPM | 2167.00 | 3370.00 | 5955.00 | 8108.00 |
| Customer Meter, GPM | | | | |
| Well Yield, GPM/ft Drawdown | 240.78 | 374.44 | 620.31 | 835.88 |
| Acre Feet Pumped in 24 Hours | 9.59 | 14.91 | 26.35 | 35.88 |
| kW Input to Motor | 25.6 | 30.4 | 40.8 | 56 |
| HP Input to Motor | 34.32 | 40.75 | 54.69 | 75.07 |
| Motor Load % | 42.6 | 50.5 | 67.8 | 93.1 |
| Measured Speed of Pump, RPM | 676 | 750 | 810 | 902 |
| VFD, Hz: | 45.00 | 49.80 | 54.60 | 60.00 |
| **kWh per Acre Foot** | **64.16** | **48.99** | **37.21** | **37.51** |
| **Overall Plant Efficiency (%)** | **30.9** | **41** | **55.6** | **56.1** |
| Energy Cost per Hour | 4.73 | 5.61 | 7.53 | 10.34 |
| Water Horsepower, hp | 10.61 | 16.7 | 30.42 | 42.09 |
| Flow Velocity, ft/sec | 1.54 | 2.39 | 4.22 | 5.75 |

# Exhibit D

Power Services, Inc.

6301 Bearden Lane
Modesto, CA 95357
209.527.2908
fax
cal.powerhydrodynamics.com

Report ID: PT-27315

**CONFIDENTIAL/PROPRIETARY INFORMATION**

Abel Palacio
Rec Dist 1614
P.O. Box 4807
Stockton, CA 95204

Friday, Jan 13, 2023

SUBJECT: PUMPING COST ANALYSIS
HP: 75.00 Plant: Wisconsin 4 East
PUMP TEST REFERENCE NUMBER: PT-27315
PUMP TEST RUN: Run 1

The following Pumping Cost Analysis is presented as an aid to your cost accounting. This analysis is an estimate prepared from operating criteria supplied from the pump test performed Jan 12 2023 and information provided by you during the pump test.

It is recommended and assumed that:

- **Overall plant efficiency can be improved to: 66%**
- **Water requirements will be the same as for the past year**
- **All operating conditions (annual hours of operation, discharge head, and water pumping level) will remain the same as they were at the time of the pump test**

| | EXISTING PLANT EFFICIENCY | IMPROVED PLANT EFFICIENCY | SAVINGS |
|---|---|---|---|
| kWh/AF | 56 | 29.7 | 26.20 |
| Estimated Total kWh | 24,801 | 13,167 | 11,634 |
| Average Cost per kWh | $0.18 | $0.18 | |
| Average Cost per hour | $4.58 | $12.22 | * |
| Cost Per Acre Ft. | $10.33 | $5.48 | $4.85 |
| Estimated Acre Ft. Per Year | 443.21 | 443.21 | |
| Run Hours | 1,000.00 | 1,000.00 | |
| Overall Plant Efficiency | 35% | 66% | |
| Estimated Total Annual Cost | $4,578.70 | $2,430.82 | $2,147.88 |

It is sincerely hoped that this information will prove helpful to you, and that your concerns over maintaining optimum pumping efficiency will be continued. If you have any questions, please contact Bill Power at (209) 527-2908.

Regards,

William Thomas Power, III

Enclosures

<Pump 4 - NEW>

Power Services, Inc.

6301 Bearden Lane
Modesto, CA 95357
209.527.2908
fax
cal.powerhydrodynamics.com

Report ID: PT-27315

# Agricultural and Domestic Pump Test Report
## Rec Dist 1614 - Wisconsin 4 East - Run 1

Latitude: 37.96951 | Longitude: -121.35105 | Elevation: 13
Test Date: Jan 12 2023 | Tester: Bill Power | Nameplate HP: 75.00

### Customer Information

**Rec Dist 1614**

P.O. Box 4807
Stockton, CA 95204

Contact: Abel Palacio
Cell: 209-992-2827

### Power Company Data

**PG&E**

Meter #: **1010433779**
Rate Schedule: **AG5B**
Average Cost: **$0.18**

### Equipment Data

Motor Make: **General Electric**
Volts/Amps: **460V/98.40A**
Serial #: **HRFT221U022**
Pump Make: **Prime**
Pump Type: **Mix Flow**
Drive Type: **Electric Motor**
Gearhead Make:

### Hydraulic Data

Pumping Water Level (PWL): 9.00 ft
Discharge Pressure: 4.40 PSI
Discharge Level: 10.16 ft
Total Lift: 19.16 ft
Water Source: Sump

### Flow Data

Run Number: 1 of 4
Measured Flow: 2407 gpm
Customer Flow: 0 gpm
Flow Velocity: 1.7 ft/sec
Acre Feet per 24 Hr: 10.65
Cubic Feet Per Second (CFS): 5.36 ft

### Power Data

Horsepower Input to Motor: 33.24 hp
Brake Horsepower: 30.92 hp
Kilowatt Input to Motor: 24.8 kW
Energy Cost: $4.58/hr
Nameplate RPM: 890 rpm
VFD: 46 hz

Percent of Rated Motor Load: 41%
Kilowatt Hours per Acre Foot: 55.96
Cost to Pump an Acre Foot: $10.33
**Overall Plant Efficiency: 35.04%**
Water Horsepower: 11.65 hp
Run Hours: 1000

### Remarks

All results are based on conditions during the time of the test. If these conditions vary from the normal operation of your pump, the results shown may not describe the pump's normal performance.

This pump has an adequate test section.

This pump did not have a flow meter.

HPI measured with direct read KWI.

Overall efficiency of this plant is considered to be very low assuming this run represents plant's normal operating condition.

Power Services, Inc.

6301 Bearden Lane
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cal.powerhydrodynamics.com

Report ID: PT-27315

**CONFIDENTIAL/PROPRIETARY INFORMATION**

Abel Palacio
Rec Dist 1614
P.O. Box 4807
Stockton, CA 95204

Friday, Jan 13, 2023

SUBJECT: PUMPING COST ANALYSIS
HP: 75.00 Plant: Wisconsin 4 East
PUMP TEST REFERENCE NUMBER: PT-27315
PUMP TEST RUN: Run 2

The following Pumping Cost Analysis is presented as an aid to your cost accounting. This analysis is an estimate prepared from operating criteria supplied from the pump test performed Jan 12 2023 and information provided by you during the pump test.

It is recommended and assumed that:

- **Overall plant efficiency can be improved to: 66%**
- **Water requirements will be the same as for the past year**
- **All operating conditions (annual hours of operation, discharge head, and water pumping level) will remain the same as they were at the time of the pump test**

| | EXISTING PLANT EFFICIENCY | IMPROVED PLANT EFFICIENCY | SAVINGS |
|---|---|---|---|
| kWh/AF | 46.5 | 30.1 | 16.40 |
| Estimated Total kWh | 30,401 | 19,659 | 10,742 |
| Average Cost per kWh | $0.18 | $0.18 | |
| Average Cost per hour | $5.61 | $12.22 | * |
| Cost Per Acre Ft. | $8.58 | $5.55 | $3.03 |
| Estimated Acre Ft. Per Year | 653.86 | 653.86 | |
| Run Hours | 1,000.00 | 1,000.00 | |
| Overall Plant Efficiency | 42.7% | 66% | |
| Estimated Total Annual Cost | $5,612.60 | $3,629.37 | $1,983.24 |

It is sincerely hoped that this information will prove helpful to you, and that your concerns over maintaining optimum pumping efficiency will be continued. If you have any questions, please contact Bill Power at (209) 527-2908.

Regards,

William Thomas Power, III

Enclosures

Power Services, Inc.

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Report ID: PT-27315

# Agricultural and Domestic Pump Test Report
## Rec Dist 1614 - Wisconsin 4 East - Run 2

Latitude: 37.96951 | Longitude: -121.35105 | Elevation: 13
Test Date: Jan 12 2023 | Tester: Bill Power | Nameplate HP: 75.00

### Customer Information

**Rec Dist 1614**

P.O. Box 4807
Stockton, CA 95204

Contact: Abel Palacio
Cell: 209-992-2827

### Power Company Data

**PG&E**

Meter #: **1010433779**
Rate Schedule: **AG5B**
Average Cost: **$0.18**

### Equipment Data

Motor Make: **General Electric**
Volts/Amps: **460V/98.40A**
Serial #: **HRFT221U022**
Pump Make: **Prime**
Pump Type: **Mix Flow**
Drive Type: **Electric Motor**
Gearhead Make:

### Hydraulic Data

Pumping Water Level (PWL): 9.00 ft
Discharge Pressure: 4.50 PSI
Discharge Level: 10.4 ft
Total Lift: 19.4 ft
Water Source: Sump

### Flow Data

Run Number: 2 of 4
Measured Flow: 3551 gpm
Customer Flow: 0 gpm
Flow Velocity: 2.5 ft/sec
Acre Feet per 24 Hr: 15.71
Cubic Feet Per Second (CFS): 7.91 ft

### Power Data

Horsepower Input to Motor: 40.75 hp
Brake Horsepower: 37.9 hp
Kilowatt Input to Motor: 30.4 kW
Energy Cost: $5.61/hr
Nameplate RPM: 890 rpm
VFD: 50 hz

Percent of Rated Motor Load: 51%
Kilowatt Hours per Acre Foot: 46.49
Cost to Pump an Acre Foot: $8.58
**Overall Plant Efficiency: 42.68%**
Water Horsepower: 17.39 hp
Run Hours: 1000

### Remarks

All results are based on conditions during the time of the test. If these conditions vary from the normal operation of your pump, the results shown may not describe the pump's normal performance.

This pump has an adequate test section.

This pump did not have a flow meter.

HPI measured with direct read KWI.

Overall efficiency of this plant is considered to be very low assuming this run represents plant's normal operating condition.

Power Services, Inc.

6301 Bearden Lane
Modesto, CA 95357
209.527.2908
fax
cal.powerhydrodynamics.com

Report ID: PT-27315

**CONFIDENTIAL/PROPRIETARY INFORMATION**

Abel Palacio
Rec Dist 1614
P.O. Box 4807
Stockton, CA 95204

Friday, Jan 13, 2023

SUBJECT: PUMPING COST ANALYSIS
HP: 75.00 Plant: Wisconsin 4 East
PUMP TEST REFERENCE NUMBER: PT-27315
PUMP TEST RUN: Run 3

The following Pumping Cost Analysis is presented as an aid to your cost accounting. This analysis is an estimate prepared from operating criteria supplied from the pump test performed Jan 12 2023 and information provided by you during the pump test.

It is recommended and assumed that:

- **Overall plant efficiency can be improved to: 66%**
- **Water requirements will be the same as for the past year**
- **All operating conditions (annual hours of operation, discharge head, and water pumping level) will remain the same as they were at the time of the pump test**

| | EXISTING PLANT EFFICIENCY | IMPROVED PLANT EFFICIENCY | SAVINGS |
|---|---|---|---|
| kWh/AF | 38 | 31.6 | 6.50 |
| Estimated Total kWh | 44,001 | 36,503 | 7,499 |
| Average Cost per kWh | $0.18 | $0.18 | |
| Average Cost per hour | $8.12 | $12.22 | * |
| Cost Per Acre Ft. | $7.02 | $5.83 | $1.20 |
| Estimated Acre Ft. Per Year | 1,156.73 | 1,156.73 | |
| Run Hours | 1,000.00 | 1,000.00 | |
| Overall Plant Efficiency | 54.8% | 66% | |
| Estimated Total Annual Cost | $8,123.50 | $6,739.10 | $1,384.40 |

It is sincerely hoped that this information will prove helpful to you, and that your concerns over maintaining optimum pumping efficiency will be continued. If you have any questions, please contact Bill Power at (209) 527-2908.

Regards,

William Thomas Power, III

Enclosures

Power Services, Inc.

6301 Bearden Lane
Modesto, CA 95357
209.527.2908
fax
cal.powerhydrodynamics.com

Report ID: PT-27315

# Agricultural and Domestic Pump Test Report
## Rec Dist 1614 - Wisconsin 4 East - Run 3

Latitude: 37.96951 | Longitude: -121.35105 | Elevation: 13
Test Date: Jan 12 2023 | Tester: Bill Power | Nameplate HP: 75.00

### Customer Information

**Rec Dist 1614**

P.O. Box 4807
Stockton, CA 95204

Contact: Abel Palacio
Cell: 209-992-2827

### Power Company Data

**PG&E**

Meter #: **1010433779**
Rate Schedule: **AG5B**
Average Cost: **$0.18**

### Equipment Data

Motor Make: **General Electric**
Volts/Amps: **460V/98.40A**
Serial #: **HRFT221U022**
Pump Make: **Prime**
Pump Type: **Mix Flow**
Drive Type: **Electric Motor**
Gearhead Make:

### Hydraulic Data

Pumping Water Level (PWL): 9.50 ft
Discharge Pressure: 4.70 PSI
Discharge Level: 10.86 ft
Total Lift: 20.36 ft
Water Source: Sump

### Flow Data

Run Number: 3 of 4
Measured Flow: 6282 gpm
Customer Flow: 0 gpm
Flow Velocity: 4.43 ft/sec
Acre Feet per 24 Hr: 27.8
Cubic Feet Per Second (CFS): 13.99 ft

### Power Data

Horsepower Input to Motor: 58.98 hp
Brake Horsepower: 54.85 hp
Kilowatt Input to Motor: 44 kW
Energy Cost: $8.12/hr
Nameplate RPM: 890 rpm
VFD: 56 hz

Percent of Rated Motor Load: 73%
Kilowatt Hours per Acre Foot: 38.04
Cost to Pump an Acre Foot: $7.02
**Overall Plant Efficiency: 54.75%**
Water Horsepower: 32.29 hp
Run Hours: 1000

### Remarks

All results are based on conditions during the time of the test. If these conditions vary from the normal operation of your pump, the results shown may not describe the pump's normal performance.

This pump has an adequate test section.

This pump did not have a flow meter.

Based on information obtained at the time the test was performed, this test represents the pumps standard operating conditions.

HPI measured with direct read KWI.

Overall efficiency of this plant is considered to be low assuming this run represents plant's normal operating condition.

Power Services, Inc.

6301 Bearden Lane
Modesto, CA 95357
209.527.2908
fax
cal.powerhydrodynamics.com

Report ID: PT-27315

**CONFIDENTIAL/PROPRIETARY INFORMATION**

Abel Palacio
Rec Dist 1614
P.O. Box 4807
Stockton, CA 95204

Friday, Jan 13, 2023

SUBJECT: PUMPING COST ANALYSIS
HP: 75.00 Plant: Wisconsin 4 East
PUMP TEST REFERENCE NUMBER: PT-27315
PUMP TEST RUN: Run 4

The following Pumping Cost Analysis is presented as an aid to your cost accounting. This analysis is an estimate prepared from operating criteria supplied from the pump test performed Jan 12 2023 and information provided by you during the pump test.

It is recommended and assumed that:

- **Overall plant efficiency can be improved to: 66%**
- **Water requirements will be the same as for the past year**
- **All operating conditions (annual hours of operation, discharge head, and water pumping level) will remain the same as they were at the time of the pump test**

| | EXISTING PLANT EFFICIENCY | IMPROVED PLANT EFFICIENCY | SAVINGS |
|---|---|---|---|
| kWh/AF | 40.6 | 32.2 | 8.40 |
| Estimated Total kWh | 56,802 | 45,102 | 11,700 |
| Average Cost per kWh | $0.18 | $0.18 | |
| Average Cost per hour | $10.49 | $12.22 | * |
| Cost Per Acre Ft. | $7.49 | $5.95 | $1.54 |
| Estimated Acre Ft. Per Year | 1,399.60 | 1,399.60 | |
| Run Hours | 1,000.00 | 1,000.00 | |
| Overall Plant Efficiency | 52.4% | 66% | |
| Estimated Total Annual Cost | $10,486.71 | $8,326.72 | $2,159.99 |

It is sincerely hoped that this information will prove helpful to you, and that your concerns over maintaining optimum pumping efficiency will be continued. If you have any questions, please contact Bill Power at (209) 527-2908.

Regards,

William Thomas Power, III

Enclosures

Power Services, Inc.

6301 Bearden Lane
Modesto, CA 95357
209.527.2908
fax
cal.powerhydrodynamics.com

Report ID: PT-27315

# Agricultural and Domestic Pump Test Report
## Rec Dist 1614 - Wisconsin 4 East - Run 4

Latitude: 37.96951 | Longitude: -121.35105 | Elevation: 13
Test Date: Jan 12 2023 | Tester: Bill Power | Nameplate HP: 75.00

### Customer Information

**Rec Dist 1614**

P.O. Box 4807
Stockton, CA 95204

Contact: Abel Palacio
Cell: 209-992-2827

### Power Company Data

**PG&E**

Meter #: **1010433779**
Rate Schedule: **AG5B**
Average Cost: **$0.18**

### Equipment Data

Motor Make: **General Electric**
Volts/Amps: **460V/98.40A**
Serial #: **HRFT221U022**
Pump Make: **Prime**
Pump Type: **Mix Flow**
Drive Type: **Electric Motor**
Gearhead Make:

### Hydraulic Data

Pumping Water Level (PWL): 9.70 ft
Discharge Pressure: 4.80 PSI
Discharge Level: 11.09 ft
Total Lift: 20.79 ft
Water Source: Sump

### Flow Data

Run Number: 4 of 4
Measured Flow: 7601 gpm
Customer Flow: 0 gpm
Flow Velocity: 5.36 ft/sec
Acre Feet per 24 Hr: 33.63
Cubic Feet Per Second (CFS): 16.93 ft

### Power Data

Horsepower Input to Motor: 76.14 hp
Brake Horsepower: 70.81 hp
Kilowatt Input to Motor: 56.8 kW
Energy Cost: $10.49/hr
Nameplate RPM: 890 rpm
VFD: 60 hz

Percent of Rated Motor Load: 94%
Kilowatt Hours per Acre Foot: 40.58
Cost to Pump an Acre Foot: $7.49
**Overall Plant Efficiency: 52.41%**
Water Horsepower: 39.9 hp
Run Hours: 1000

### Remarks

All results are based on conditions during the time of the test. If these conditions vary from the normal operation of your pump, the results shown may not describe the pump's normal performance.
This pump has an adequate test section.
This pump did not have a flow meter.
HPI measured with direct read KWI.
Overall efficiency of this plant is considered to be low assuming this run represents plant's normal operating condition.

Power Services, Inc.

6301 Bearden Lane
Modesto, CA 95357
209.527.2908
fax
cal.powerhydrodynamics.com

Report ID: PT-27315

Abel Palacio
Rec Dist 1614
P.O. Box 4807
Stockton, CA 95204

**Pump Name:** Wisconsin 4 East

**HYDRAULIC TEST RESULTS** PT-27315 **Test Date:** Jan 12 2023

**Tester:** Bill Power
**Meter #:** 1010433779
**Annual Run Hrs:** 1000

**Utility:** PG&E
**Rate Sched:** AG5B
**Avg Cost kWh:** $0.18

**Meter kH:** 1.80
**Meter Const:** 80

**Motor Make:** General Electric
**Volts:** 460
**Gearhead Make:**
**Pump Make:** Prime
**Water Source:** Sump

**Motor Serial:** HRFT221U022
**Amps:** 98.40
**NameplateRPM:** 890
**Pump Type:** Mix Flow

**Horsepower:** 75.00
**Drive Type:** Electric Motor
**Pipe Diameter:** 24.06

| **Results** | **Test 1** | **Test 2** | **Test 3** | **Test 4** |
|---|---|---|---|---|
| Discharge Pressure, PSI | 4.40 | 4.50 | 4.70 | 4.80 |
| Standing Water Level, Feet | 0 | 0 | 0 | 0 |
| Recovered Water Level | 0.00 | 0.00 | 0.00 | 0.00 |
| Drawdown, Feet | 9 | 9 | 9.5 | 9.7 |
| Discharge Head, Feet | 10.16 | 10.4 | 10.86 | 11.09 |
| Pumping Water Level, Feet | 9.00 | 9.00 | 9.50 | 9.70 |
| Total Measured Head, Feet | 19.164 | 19.395 | 20.357 | 20.788 |
| Measured GPM | 2407.00 | 3551.00 | 6282.00 | 7601.00 |
| Customer Meter, GPM | | | | |
| Well Yield, GPM/ft Drawdown | 267.44 | 394.56 | 661.26 | 783.61 |
| Acre Feet Pumped in 24 Hours | 10.65 | 15.71 | 27.8 | 33.63 |
| kW Input to Motor | 24.8 | 30.4 | 44 | 56.8 |
| HP Input to Motor | 33.24 | 40.75 | 58.98 | 76.14 |
| Motor Load % | 41.2 | 50.5 | 73.1 | 94.4 |
| Measured Speed of Pump, RPM | 685 | 738 | 819 | 894 |
| VFD, Hz: | 45.60 | 50.40 | 55.70 | 59.90 |
| **kWh per Acre Foot** | **55.96** | **46.49** | **38.04** | **40.58** |
| **Overall Plant Efficiency (%)** | **35** | **42.7** | **54.8** | **52.4** |
| Energy Cost per Hour | 4.58 | 5.61 | 8.12 | 10.49 |
| Water Horsepower, hp | 11.65 | 17.39 | 32.29 | 39.9 |
| Flow Velocity, ft/sec | 1.7 | 2.5 | 4.43 | 5.36 |

# Exhibit E

EXECUTIVE DEPARTMENT
STATE OF CALIFORNIA

**PROCLAMATION OF A STATE OF EMERGENCY**

**WHEREAS** beginning December 27, 2022, severe winter storms related to a series of atmospheric river systems struck California, bringing high winds, substantial precipitation, and river and urban flooding; and

**WHEREAS** it is forecasted that additional and continuing storms related to this series of atmospheric river systems threaten California, bringing heavy rainfall, expected flooding, strong winds and wind gusts, falling debris, downed trees, and widespread power outages; and

**WHEREAS** in preparation for the forecasted storms, multiple California Conservation Corps flood fight crews, fire swift water rescue, and urban search and rescue teams have been strategically prepositioned for emergency response; sandbags have been made available throughout the State; and shelters are opening for displaced individuals; and

**WHEREAS** these storms forced the closure and caused damage to highways and roads, as well as caused levee and culvert failures, and mandatory evacuations in severely impacted counties, and such impacts will likely continue to be caused by the forecasted storms; and

**WHEREAS** these storms threatened and continue to threaten critical infrastructure, movement of resources, burn scars from recent wildfires potentially causing mud and debris flows; resulted in and threaten power outages to thousands of households and businesses; and caused and continue to threaten river and urban flooding due to excessive and prolonged rainfall; and

**WHEREAS** due to the series of atmospheric river systems continuously impacting counties throughout the State, the counties have not had time to mitigate the cascading impacts of these storms; and

**WHEREAS** under the provisions of Government Code section 8558(b), I find that conditions of extreme peril to the safety of persons and property exist due to these storms; and

**WHEREAS** under the provisions of Government Code section 8558(b), I find that the conditions caused by these storms, by reason of their magnitude, are or are likely to be beyond the control of the services, personnel, equipment, and facilities of any single local government and require the combined forces of a mutual aid region or regions to appropriately respond; and

**WHEREAS** under the provisions of Government Code section 8625(c), I find that local authority is inadequate to cope with the magnitude of the damage caused by these storms; and

**WHEREAS** under the provisions of Government Code section 8571, I find that strict compliance with various statutes and regulations specified in this Proclamation would prevent, hinder, or delay the mitigation of the effects of these storms.

**NOW, THEREFORE, I, GAVIN NEWSOM**, Governor of the State of California, in accordance with the authority vested in me by the State Constitution and statutes, including the California Emergency Services Act, and in particular, Government Code section 8625, **HEREBY PROCLAIM A STATE OF EMERGENCY** to exist throughout California.

**IT IS HEREBY ORDERED THAT:**

1. All agencies of the state government utilize and employ state personnel, equipment, and facilities for the performance of any and all activities consistent with the direction of the Office of Emergency Services and the State Emergency Plan. Also, all residents are to obey the direction of emergency officials with regard to this emergency in order to protect their safety.

2. The Office of Emergency Services shall provide assistance to local governments, if appropriate, under the authority of the California Disaster Assistance Act, Government Code section 8680 et seq., and California Code of Regulations, Title 19, section 2900 et seq.

3. As necessary to assist local governments and for the protection of public health and the environment, state agencies shall enter into contracts to arrange for the procurement of materials, goods, and services necessary to quickly assist with the response to and recovery from the impacts of these storms. Applicable provisions of the Government Code and the Public Contract Code, including but not limited to travel, advertising, and competitive bidding requirements, are suspended to the extent necessary to address the effects of these storms.

4. Any fairgrounds the Office of Emergency Services determines suitable to assist individuals impacted by these storms shall be made available to the Office of Emergency Services pursuant to the Emergency Services Act, Government Code section 8589. The Office of Emergency Services shall notify the fairgrounds of the intended use and may immediately utilize the fairgrounds without the fairground board of directors' approval.

5. The California Department of Transportation shall formally request immediate assistance through the Federal Highway Administration's Emergency Relief Program, United States Code, Title 23, section 125, in order to obtain federal assistance for highway repairs or reconstruction.

6. The California National Guard may be mobilized under Military and Veterans Code section 146 to support disaster response and relief efforts, as directed by the Office of Emergency Services, and to coordinate with all relevant state agencies and state and local emergency responders and law enforcement within the impacted areas. Sections 147 and 188 of the Military and Veterans Code are applicable during the period of participation in this mission, exempting the California Military Department from applicable procurement rules

for specified emergency purchases, and those rules are hereby suspended.

7. Any state-owned properties the Office of Emergency Services determines suitable for staging of debris as a result of these storms shall be made available to the Office of Emergency Services for this purpose in accordance with Government Code section 8570.

8. Drivers may exceed the hours-of-service limits specified in California Vehicle Code section 34501.2 and California Code of Regulations, Title 13, section 1212.5 while operating a vehicle engaged in fuel transportation in support of emergency relief efforts, subject to the following conditions:

   a. Motor carriers or drivers currently subject to an out-of-service order are eligible for the exemption once the out-of-service order expires or when they have met the conditions for its rescission.

   b. In accordance with Section 1214, Title 13, California Code of Regulations, no motor carrier operating under the terms of this Proclamation will require or allow an ill or fatigued driver to operate a motor vehicle. A driver who notifies a motor vehicle carrier that they need immediate rest shall be given at least ten consecutive hours off-duty before being required to return to service.

   c. Drivers shall maintain a driver's record of duty status, regardless of number of hours worked each day. These records shall be prepared, submitted, and maintained as required by Section 1213, Title 13, California Code of Regulations.

9. Consistent with Parts 390 and 395, Title 49, Code of Federal Regulations, drivers may exceed the hours-of-service limits specified while operating a vehicle engaged in fuel transportation in support of emergency relief efforts. These waivers shall be in effect for the duration of the driver's direct assistance in providing emergency relief, or thirty (30) days from the date of this Proclamation, whichever is less.

10. In order to allow out-of-state contractors and other utilities driving their own vehicles to provide mutual aid assistance for the restoration of electrical power within the counties impacted by these storms, applicable provisions of the Vehicle Code including, but not limited to, Vehicle Code section 34620 requiring a motor carrier permit [licensing] and imposition of certain fees, are suspended for motor carriers providing such assistance. Also, the requirements for motor carriers and drivers in Vehicle Code sections 1808.1 [pull-notice program that checks for driver's license violations], 27900 [display name on vehicle], 27901 [size and color of display name on vehicle], 34505.5 [requirement to have been inspected within 90 days], and 34501.12 [requirement to set up home base in California] are suspended while providing mutual aid assistance for the emergency restoration of services.

**I FURTHER DIRECT** that as soon as hereafter possible, this Proclamation be filed in the Office of the Secretary of State and that widespread publicity and notice be given of this Proclamation.

This Proclamation is not intended to, and does not, create any rights or benefits, substantive or procedural, enforceable at law or in equity, against the State of California, its agencies, departments, entities, officers, employees, or any other person.

**IN WITNESS WHEREOF** I have hereunto set my hand and caused the Great Seal of the State of California to be affixed this 4th day of January 2023.

GAVIN NEWSOM
Governor of California

**ATTEST:**

SHIRLEY N. WEBER, Ph.D.
Secretary of State

# ITEM 5

**RECLAMATION DISTRICT NO. 1614**

**RESOLUTION 2023-01**

**RESOLUTION OF THE BOARD OF TRUSTEES OF RECLAMATION DISTRICT NO. 1614 DECLARING THAT AN EMERGENCY SITUATION EXISTS DUE TO FLOOD RISK AND DAMAGE RESULTING FROM SEVERE STORMS**

WHEREAS, the Trustees of Reclamation District No 1614 ("District"), of the County of San Joaquin, State of California, a regular meeting of the Board of Trustees was held at the district offices at 3121 West March Lane, Suite 100, Stockton, California on January 9, 2023, at 2:00 p.m.; and

WHEREAS, commencing on December 27, 2022, it became probable that an atmospheric river would produce high levels of rainfall in the Sacramento San Joaquin Delta region coinciding with high tides and winds; and

WHEREAS, it is forecasted that additional and continuing storms related this series of atmospheric river systems threaten the Sacramento San Joaquin Delta region, bringing heavy rainfall, expected flooding, strong winds and wind gusts, falling debris, downed trees, and widespread power outages; and

WHEREAS, on January 4, 2023, in response to the damage caused by the recent storms, and impending forecasted storms Governor Newsom proclaimed a State of Emergency throughout California in accordance with Government Code section 8625, suspending provisions of the Government Code and Public Contract Code, including but not limited to competitive bidding requirements, to address the effects of these storms; and

WHEREAS, in response to the effects of these storms, the District's Board of Trustees (the "Board") hereby find that such conditions constitute an emergency that will not permit a delay from an advertised competitive solicitation for bids and that immediate restoration of service and repair of drainage and levee systems are necessary to respond to this emergency to protect health and safety.

NOW, THEREFORE, BE IT RESOLVED, AND IT IS HEREBY RESOLVED, by the Board of Trustees of Reclamation District 1614 that:

1. An emergency situation exists within the District and along the District's levees due to emergency conditions resulting from the severe storms and impending forecasted storms, which will require the District to proceed immediately with any work resulting from the storms to prevent the possible flooding of the district, and failure to its levees at the earliest possible time.

2. That any Trustee, the District Secretary, and/or District Engineer be hereby authorized and directed to acquire such materials and equipment and to enter into contracts necessary and appropriate to meet the emergency needs of the District

caused by the severe storms and impending forecasted storms in accordance with the Decision Making Authority described in Resolution 2018-13.

3. This emergency shall be deemed to have commenced on January 9, 2023, and shall continue until further action of this Board.

PASSED AND ADOPTED by the Board of Trustees of Reclamation District No. 1614 at a meeting thereof held on this 9th day of January, 2023, by the following vote, TO WIT:

AYES:

NOES:

ABSTENTION:

ABSENT:

RECLAMATION DISTRICT NO. 1614
A Political Subdivision of the
State of California

By:_____
KEVIN KAUFFMAN, PRESIDENT

ATTEST:

_____
RHONDA OLMO, SECRETARY

CERTIFICATION

I, RHONDA OLMO, Secretary of Reclamation District No. 1614, do hereby certify that the foregoing is a full, true and correct copy of a resolution of Reclamation District No. 1614 duly passed and adopted at a meeting of the Board of Trustees thereof held on the 9th day of January, 2023.

Dated: _____, 2023.

_____
RHONDA OLMO, SECRETARY
Reclamation District No. 1614

# ITEM 6

**RECLAMATION DISTRICT NO. 1614**

**RESOLUTION 2022-08**

**RESOLUTION OF THE BOARD OF TRUSTEES OF RECLAMATION DISTRICT NO. 1641 DECLARING THAT AN EMERGENCY SITUATION EXISTS**

WHEREAS, the Smith Canal Gate Project was unable to achieve connection to the right side levee within Reclamation District 1614 – Smith Canal (the "District") within the current in-water work window; and

WHEREAS, the National Marine Fisheries Service ("NMFS") and United States Army Corps of Engineers ("USACE") have not authorized the opening of the gate device for the Smith Canal Gate Project, which would provide an additional outlet for the Smith Canal to drain to the San Joaquin River; and

WHEREAS, commencing on December 5, 2022, the prospect of increased channel velocities and scour in the area between north cellular wall of the partially completed Smith Canal Gate Project and the right-side levee within District is a high level of concern for its integrity; and

WHEREAS, any damage to a District levee constitutes a clear and imminent danger to life and property within the District; and

NOW, THEREFORE, BE IT RESOLVED, AND IT IS HEREBY RESOLVED, by the Board of Trustees of Reclamation District 1614 that:

1. The Recitals are hereby incorporated by this reference.

2. As of Monday, December 5, 2022, an emergency condition exists within the District and along the District's levees due to the prospect of increased channel velocities and scour in the area between north cellular wall of the partially completed Smith Canal Gate Project and the right-side levee within Reclamation District 1614, which requires the District to proceed immediately with all work necessary at the earliest possible time to prevent the possible failure to its levee and flooding of the District.

3. The District President, District Engineer, and/or District Superintendent, acting alone or in concert with others be hereby authorized and directed to acquire such materials and equipment and to enter into contracts necessary and appropriate to meet the emergency needs of the District caused by the increased channel velocities and scour in the area between north cellular wall of the partially completed Smith Canal Gate Project and the right-side of the levee of the District in accordance with District Standards and Policies.

PASSED AND ADOPTED by the Board of Trustees of Reclamation District No. 1614 at a meeting thereof held on this 5th day of December, 2022, by the following vote, TO WIT:

AYES: 3
NOES: 0
ABSTENTION: 0
ABSENT: 0

RECLAMATION DISTRICT NO. 1614
A Political Subdivision of the
State of California

By: _____
KEVIN KAUFFMAN, PRESIDENT

ATTEST:

Rhonda Olmo
_____
RHONDA L. OLMO, SECRETARY

CERTIFICATION

I, RHONDA L. OLMO, Secretary of Reclamation District No. 1614, do hereby certify that the foregoing is a full, true and correct copy of a resolution of Reclamation District No. 1614 duly passed and adopted at a regular meeting of the Board of Trustees thereof held on the 5th day of December, 2022.

Dated: _____, 2022.

_____
RHONDA OLMO, SECRETARY
Reclamation District No. 1614

# ITEM 8

# RD 1614 Superintendent's Report 1/02/2023

**January 2023**

The month January 2023 started off with major storms hitting the area and the state of california for 2 weeks continually. Here is my report for the month. On new years eve of December 2022 , the weather forecast predicted heavy rains to start that evening with mild to heavy winds anticipated. The weather forecasters also predicted rains to continue for some time due to an atmospheric river pattern developing over the Pacific Ocean directed into the center of California.

**Pump Stations :** With Drought affecting our area for the last 2-3 years or so , the pumps at the pump station have not had a real test as to their 'state or readiness' other than a few large rain events.This time was different, with rains coming every day in large amounts, the pumps at all the pump stations logged several hundred hours of run time each. We had several problems related to this excessive run time . Some pumps had overload and control system failures as a result. All the problems on the pump station were able to be repaired immediately or deferred for a future time until weather and time permitted. As rains and wind continued, the area west of I/5 experienced excessive power outages when trees and power lines fell across the state. PG&E power crews were backed up for days . Fortunately I had rented 3 emergency generators from Holt of California and United Rental to provide power to our most critical station during this atmospheric river event. With so much rain available we were able to get the new pumps at Wisconsin Pump station flow and efficiency test completed. The report has been submitted to KSN engineering for analysis . I was also able to use this data to set the controllers at Wisconsin pump station for optimum use. On another note, I did have to deploy contractors for help during the storms. They were used primarily as emergency sump cleaning and debris removal at the pump stations when the station's inlet flow was impeded.

**Levee insection** :Due to heavy rains all Levee inspections were done by walking the levee,and drive-by inspections. I patrolled the levee daily during and after the rains to inspect for unusual erosion, seepage, unusual flows etc. I did not see any problems with the levee system in our area. I have also been in contact with the residence so they can contact me if they notice problems in the area.

With so many problems identified as having issues during these storm events. In the next coming weeks or months (weather permitting) I will have a pump contract pull pumps at Moreing #5, Franklyn #3, and Plymouth and River Dr #9 for inspection and possible repair. In addition one of the existing pumps at Wisconsin indicated very low flow rate in the efficiency study performed by Bil Power .

This concludes my report
Abel Palacio - Reclamation District 1614 Superintendent:

# ITEM 11

# RD 1614: MASTER CALENDAR

**JANUARY**

**FEBRUARY**

- Send out Form 700s, remind Trustees of April 1 filing date
- Update Document Retention Policy

**MARCH**

- Evaluation Review of Employees

**APRIL**

- April 1: Form 700s due
- Biannual Town Hall Meeting

**MAY**

- Draft Budget

**JUNE**

- June 15: Provide notice/make available to the public, documentation/materials regarding determination of Appropriations (15 days prior to meeting at which Appropriations will be adopted) (*Government Code* §7910).
- Approve Audit Contract for expiring fiscal year
- Adopted Annual Budget.
- Reminder that Liability Insurance Expires Annually the end of July.
- Adopt Annual CEQA Exemption for levee maintenance

**JULY**

- Adopt Resolution for setting Appropriations and submit to County Assessor's Office.
- Adopt Resolution Establishing Annual Assessments.

**AUGUST**

- August 1: Deadline to certify assessments for tax-roll and deliver to County (duration of current assessment: no expiration).
- Send handbills for collection of assessments for public entity-owned properties
- In election years, opening of period for secretary to receive petitions for nomination of Trustees (75 days from date of election.) (*Cal. Wat. Code* §50731.5)
- Employee Embezzlement Policy Expires this Month.
- Renewal of Insurance
  (Crime policy does not come up for renewal until 8/26/2020)

**SEPTEMBER**

- In election years, last legal deadline to post notice that petitions for nomination of Trustees may be received (7 days prior to close of closure.) (*Cal. Wat. Code* §50731.5).
- In election years, closing of acceptance of petitions for nomination of Trustees (54 days from date of election.) (*Cal. Wat. Code* §50731.5).
- Review Status of Encroachment Permit request from Randy Pierson for fence at corner of Del Rio Ave and Kirk Ave.

**OCTOBER**

- Publish Notice of Election, even numbered years (once per week, 4 times, commencing at least 1 month prior to election).
- Newsletter
- Biannual Town Hall Meeting.

**NOVEMBER**

- Election: to be held date selected by Board each even-numbered year.

**DECEMBER**

- New Trustee(s) take office, outgoing Trustee(s) term(s) end on first Friday of each even-numbered year.
- Follow up on Smith Canal Proposition 218 Reimbursement for costs advanced to SJAFCA.
- Election of Board officers (Election years)

**Term of Current Board Members:**

| Name | Term Commenced | Term Ends |
|---|---|---|
| Christian Gaines | First Friday 12/2018 | First Friday of 12/2022 |
| Kevin Kauffman | First Friday 12/2020 | First Friday of 12/2024 |
| Dominick Gulli | First Friday 12/2020 | First Friday of 12/2024 |

**No Expiration on Assessment**

**Emergency Operations Plan Review – September 2022.**

**Reclamation District Meetings**

- **First Monday of each month, at 2:00 P.M.**
  **at the offices of**
  **Neumiller &Beardslee**
  **3121 W. March Lane, Suite 100**
  **Stockton, California 95219**

# ITEM 15

Reclamation District 1614
January 2023 Bills

| NAME | INVOICE # | AMOUNT | TOTAL $ | WARRANT # | CHECK # | SUBVENTION FUND |
|---|---|---|---|---|---|---|
| | | | | | | |
| Kevin Kauffman | | $100.00 | | 6161 | | |
| Special Meeting Fee - Jan 18, 2023 | | $100.00 | | | | |
| | | | **$200.00** | | | |
| | | | | | | |
| Christian Gaines | | $50.00 | | 6162 | | |
| Special Meeting Fee - Jan 18, 2023 | | $50.00 | | | | |
| | | | **$100.00** | | | |
| | | | | | | |
| Dominick Gulli | | $50.00 | | 6163 | | |
| Special Meeting Fee - Jan 18, 2023 | | $50.00 | | | | |
| | | | **$100.00** | | | |
| | | | | | | |
| Rhonda Olmo | | $1,072.50 | | 6164 | | |
| Special Meeting Fee - Jan 18, 2023 | | $250.00 | | | | |
| | | | **$1,322.50** | | | |
| | | | | | | |
| Neumiller & Beardslee | 337311 | $2,981.56 | | 6165 | | |
| | | | **$2,981.56** | | | |
| | | | | | | |
| Kjeldsen, Sinnock, & Neudeck | 34431 | $1,603.44 | | 6166 | | |
| | 34432 | $386.25 | | | | |
| | 34433 | $260.00 | | | | |
| | 34434 | $123.75 | | | | |
| | 34435 | $528.75 | | | | |
| | 34436 | $2,116.68 | | | | |
| | | | **$5,018.87** | | | |
| | | | | | | |
| BPM | 53733 | $592.40 | | 6167 | | |
| | | | **$592.40** | | | |
| | | | | | | |
| Holt of California | G0692701 | $272.51 | | 6168 | | |
| | | | **$272.51** | | | |
| | | | | | | |

Reclamation District 1614
January 2023 Bills

| | | | | | | |
|---|---|---|---|---|---|---|
| Delk Pest Control | 175772 | $220.00 | | 6169 | | |
| | | | **$220.00** | | | |
| | | | | | | |
| Holt Repair & Mfg., Inc. | 13108 | $780.00 | | 6170 | | |
| | | | **$780.00** | | | |
| | | | | | | |
| Willie Electric Supply Co., Inc. | S2122688.001 | $1,318.41 | | 6171 | | |
| | S2122716.001 | $95.05 | | | | |
| | | | **$1,413.46** | | | |
| | | | | | | |
| RACO Manufacturing & Engineering Co. | SO-93050 | $6,294.76 | | 6172 | | |
| | | | **$6,294.76** | | | |
| | | | | | | |
| Reclamation District 1614 - Checking Account Funds | | $25,000.00 | | 6173 | | |
| | | | **$25,000.00** | | | |
| | | | | | | |
| Abel Palacio - January Payroll | | $4,134.66 | | | Direct Deposit | |
| | | | **$4,134.66** | | | |
| | | | | | | |
| State of California Payroll Taxes - Jan. | | $479.84 | | | | |
| | | | **$479.84** | | | |
| | | | | | | |
| Federal Government Payroll Taxes - Jan. | | $2,135.84 | | | | |
| | | | **$2,135.84** | | | |
| | | | | | | |
| Sprint | | $74.62 | | | online | |
| | | | **$74.62** | | | |
| | | | | | | |
| Comcast | | $134.69 | | | online | |
| | | | **$134.69** | | | |
| | | | | | | |
| Visa | | $4,646.19 | | | online | |
| | | | | | | |
| | | | **$4,646.19** | | | |
| | | | | | | |

Reclamation District 1614
January 2023 Bills

| | | | | | | |
|---|---|---|---|---|---|---|
| PG&E | | $7,933.18 | | | online | |
| | | | **$7,933.18** | | | |
| | | | | | | |
| | **WARRANT TOTAL:** | | **$44,296.06** | | | |
| | **CHECKING TOTAL:** | | **$19,539.02** | | | |
| | **TOTAL BILLS PAID** | | **$63,835.08** | | | |