

# PM Work Order Report

FEC: NAVFAC Hawaii

Run Date: 09/20/2024 11:21 AM

WO#: JJ6CPW

JON: N25PHW282445



WO Description: HALAWA FRESH WATER PUMPING STATIONS ROVING ROUTE 2 (M)

WO Long Desc: (MOANALUA BOOSTER STATION, S-1/S-2 TANKS, S-5, (b) (3))

Parent:

Work Type: UTILITIES / PM

Status Code: COMP

Start By Date: 07/31/2024

Work Center: WHHP6A

Complete By Date: 08/30/2024

Lead:

(b) (6)

Customer Ref Number:

Crew:

Customer Ref Code:

Assign To:

Location: HALAWA-1 FRESH WATER PUMP STA, HALAWA HSG

| Asset   | Asset Info  | Serial #            | Make             | Model   |
|---|---|---------------------|------------------|---------|
| SA-FWY S4083  | PUMP, CHLORINE FEED PUMP, METERING, █ GALLONS PER MINUTE CHLORINE CHEMICAL PUMP | 03/50610            | ALLDOS           | (b) (3) |
| <b>Additional Loc.:</b> HALAWA, █ (b) (3)                                     |   | <b>Special Req:</b> | (b) GPH          |         |
| <b>Asset Location:</b> HALAWA-1   |   |                     |                  |         |
| SA-CHL 408  | INSTRUMENTATION, CHLORINE ANALYZER HALAWA, ANALYZER CHLORINE ANALYZER           | 559508              | CAPITAL CONTROLS | (b) (3) |
| <b>Additional Loc.:</b> (b) (3) HALAWA,                                       |   | <b>Special Req:</b> |                  |         |
| <b>Asset Location:</b> HALAWA-1   |   |                     |                  |         |
| UMA058000420  | INSTRUMENTATION, CL2 CHART RECORDER S5, RECORDER                                | N/A                 | FOXBORO          | (b) (3) |
| <b>Additional Loc.:</b> HALAWA-1 FRESH WATER PUMP STA, HALAWA HSG             |   | <b>Special Req:</b> |                  |         |
| <b>Asset Location:</b> HALAWA-1   |   |                     |                  |         |
| UMA058000432  | INSTRUMENTATION, FLOW CHART RECORDER HALA, RECORDER FLOW                        | N/A                 | FOXBORO          | (b) (3) |
| <b>Additional Loc.:</b> HALAWA-1 FRESH WATER PUMP STA, HALAWA HSG             |   | <b>Special Req:</b> |                  |         |
| <b>Asset Location:</b> HALAWA-1   |   |                     |                  |         |
| SA-FLO 408  | INSTRUMENTATION, FLUORIDE ANALYZER HALAWA, ANALYZER FLOURIDE ANALYZER           | N/A                 | FOXBORO          | (b)     |
| <b>Additional Loc.:</b> (b) (3) HALAWA, ATTN: READ REMARKS NEED S/N & MODEL # |   | <b>Special Req:</b> | NEED SERIAL #    |         |
| <b>Asset Location:</b> HALAWA-1   |   |                     |                  |         |
| UMA058000422  | INSTRUMENTATION, FLUORIDE CHART RECORDER, RECORDER                              | N/A                 | FOXBORO          | (b) (3) |
| <b>Additional Loc.:</b> HALAWA-1 FRESH WATER PUMP STA, HALAWA HSG             |   | <b>Special Req:</b> |                  |         |
| <b>Asset Location:</b> HALAWA-1   |   |                     |                  |         |
| SA-HSQ 20   | CONTROL SYSTEM, HALAWA RTU 20, N/A SCADA RTU 20                                 | N/A                 | HSQ              | (b)     |
| <b>Additional Loc.:</b> HALAWA FRESH WATER PUMPING STATION                    |   | <b>Special Req:</b> |                  |         |
| <b>Asset Location:</b> HALAWA-1   |   |                     |                  |         |
| SA-HSQ 26   | CONTROL SYSTEM, S1/S2 TANKS RTU 26, SCADA RTU 26                                | N/A                 | HSQ              | (b)     |
| <b>Additional Loc.:</b> (b) S1/S2 TANK  |   | <b>Special Req:</b> |                  |         |

| Asset  | Asset Info   | Serial #                          | Make               | Model   |
|--|--|-----------------------------------|--------------------|---------|
| <b>Asset Location:</b> (b) -PW-SA-S1-S2          |  |                                   |                    |         |
| UMA058000294                                     | CONTROL SYSTEM, BOOSTER MCC, N/A<br>MOTOR CONTROL  |                                   | SQUARE D           | N/A     |
| <b>Additional Loc.:</b> MOATER-7001 BSTR PMP STA | (b) (3)  | <b>Special Req:</b><br>[REDACTED] |                    |         |
| <b>Asset Location:</b> (b) (3)                   |  |                                   |                    |         |
| SA-FWY S4871                                     | PUMP, SP 1, CENTRIFUGAL, 50,<br>GALLONS PER MINUTE<br>SUMP PUMP                            | C5184-2                           | AURORA             | (b)     |
| <b>Additional Loc.:</b> HALAWA                   | (b) (3)  | <b>Special Req:</b>               |                    |         |
| <b>Asset Location:</b> HALAWA-1                  |  |                                   |                    |         |
| UMA058000020                                     | PUMP, SP 2, CENTRIFUGAL, [REDACTED],<br>GALLONS PER MINUTE                                 | C59184-1                          | AURORA             | (b)     |
| <b>Additional Loc.:</b> HALAWA                   | (b) (3)  | <b>Special Req:</b>               |                    |         |
| <b>Asset Location:</b> HALAWA-1                  |  |                                   |                    |         |
| SA-MPFW 201                                      | PUMP, MAIN PUMP #1 HALAWA ,<br>TURBINE, [REDACTED] GALLONS PER<br>MINUTE                   |                                   | PEERLESS           | (b) (3) |
| <b>Additional Loc.:</b> HALAWA                   | (b) (3)  | <b>Special Req:</b>               | NEED SERIAL NUMBER |         |
| <b>Asset Location:</b> HALAWA-1                  |  |                                   |                    |         |
| SA-MPFW 203                                      | PUMP, MAIN PUMP #3 HALAWA ,<br>TURBINE, (b) GALLONS PER<br>MINUTE<br>MAIN PUMP FRESH WATER | UNK                               | PEERLESS           | (b) (3) |
| <b>Additional Loc.:</b> (b) (3)                  | HALAWA, ATTN: READ<br>REMARKS (WRITE IN CORRECTIONS<br>ON PROCEDURE AS NECESSARY)          | <b>Special Req:</b>               |                    |         |
| <b>Asset Location:</b> HALAWA-1                  |  |                                   |                    |         |
| UMA035000013                                     | PUMP, BOOSTER PUMP 1,<br>CENTRIFUGAL, (b) GALLONS PER<br>MINUTE                            | NA                                | GOULD              | NA      |
| <b>Additional Loc.:</b> HALAWA, (b) (3)          |  | <b>Special Req:</b>               |                    |         |
| <b>Asset Location:</b> (b) (3)                   |  |                                   |                    |         |
| UMA035000015                                     | PUMP, BOOSTER PUMP 2,<br>CENTRIFUGAL, (b) GALLONS PER<br>MINUTE                            | NA                                | GOULD              | NA      |
| <b>Additional Loc.:</b> HALAWA, (b) (3)          |  | <b>Special Req:</b>               |                    |         |
| <b>Asset Location:</b> (b) (3)                   |  |                                   |                    |         |
| UMA058000305                                     | PUMP, BOOSTER #2 (b) (3)<br>CENTRIFUGAL, (b), GALLONS PER<br>MINUTE                        | UNKN                              | PACO               | (b) (3) |

| Asset  | Asset Info   | Serial #  | Make            | Model  |
|--|--|---|-----------------|--|
| <b>Additional Loc.:</b> MOATER-7001 BSTR PMP STA (b) (3)             |  | <b>Special Req:</b>                                       |                 |  |
| <b>Asset Location:</b> MOATER-7001                                   |  |   |                 |  |
| UMA058000301   | PUMP, BOOSTER PUMP 1,<br>CENTRIFUGAL, (b) GALLONS PER<br>MINUTE                          | UNKN  | PACO            | (b) (3)                                      |
| <b>Additional Loc.:</b> MOATER-7001 BSTR PMP STA (b) (3)             |  | <b>Special Req:</b>                                       |                 |  |
| <b>Asset Location:</b> MOATER-7001                                   |  |   |                 |  |
| SA-FWY S4084   | CHEMICAL ADDITION, T1 UNIT,<br>SODIUM HYPOCHLORITE<br>FLUORIDE CHEMICAL METERING<br>PUMP | NA  | SEVERN TRENT NA |  |
| <b>Additional Loc.:</b> HALAWA, (b) (3)                              |  | <b>Special Req:</b>                                       |                 | GPH  |
| <b>Asset Location:</b> HALAWA-1                                      |  |   |                 |  |
| UMA035000009   | CHEMICAL ADDITION, T2 UNIT,<br>SODIUM HYPOCHLORITE                                       | C/05/777  | CLORTEC         | (b)  |
| <b>Additional Loc.:</b> HALAWA, (b) (3)                              |  | <b>Special Req:</b>                                       |                 |  |
| <b>Asset Location:</b> HALAWA-1                                      |  |   |                 |  |
| UMA035000010   | CHEMICAL ADDITION, T3 UNIT,<br>SODIUM HYPOCHLORITE                                       | N/A   | UNKNOWN         | (b) (3)                                      |
| <b>Additional Loc.:</b> HALAWA, (b) (3)                              |  | <b>Special Req:</b>                                       |                 | NEED MANUFACTURER NAME                       |
| <b>Asset Location:</b> HALAWA-1                                      |  |   |                 |  |
| SA-FLO 4081  | CHEMICAL ADDITION, FLUORIDE<br>FEED, FLUORIDE<br>FLUORIDE CHEMICAL METERING<br>(b) (3)   | N/A   | UNKNOWN         | N/A  |
| <b>Additional Loc.:</b> (b) (3)                                      |  | <b>Special Req:</b>                                       |                 | NEED MANUFACTURER, MODEL &<br>SERIAL NUMBERS |
| <b>Asset Location:</b> HALAWA-1                                      |  |   |                 |  |
| <b>Additional Loc.:</b> HALAWA-1 FRESH WATER PUMP<br>STA, HALAWA HSG |  | <b>Special Req:</b>                                       |                 |  |
| <b>Asset Location:</b>   |  |   |                 |  |
| <b>PM#:</b>  | UEM-PH-FW-HAL-ROVING   | HALAWA FRESH WATER PUMPING STATIONS ROVING<br>ROUTE 2 (M) |                 |  |
|  | (b) (3)  | S-1/S-2 TANKS, S-5, (b) (3)                               |                 |  |
| <b>Frequency:</b>  | 1  | MONTHS  |                 |  |
| <b>Job Plan:</b>   | ROVING   |   |                 |  |
| <b>Job Plan Info:</b>  | PEARL HARBOR VARIOUS AREAS FRESH WATER ROVING  |   |                 |  |

| <b>Craft</b> | <b>QTY</b> | <b>Hours</b> | <b>Total Hrs</b> |
|--------------|------------|--------------|------------------|
| IQ           | 1.00       | 262.32       | 262.32           |

| Operation | Description  | Observation |
|-----------|--|-------------|
| 5         | ENSURE PERSONAL PROTECTIVE EQUIPMENT IS WORN   | _____       |
| 10        | CHECK SYSTEM PRESSURE/FLOW/CHANGE CHARTS   | _____       |
| 15        | CHECK MAIN PUMP SYSTEM STATUS  | _____       |
| 20        | CHECK BOOSTER PUMP SYSTEM STATUS   | _____       |
| 25        | CHECK AUXILIARY EQUIPMENT STATUS   | _____       |
| 30        | PICK WATER SAMPLES/ RUN WATER SAMPLE ANALYSIS, UPON REQUIRED FREQUENCY.  | _____       |
| 35        | CHECK CHLORINE SYSTEM ADD CHEMICALS, A) CHECK CHLORINE GENERATORS FOR PROPER OPERATIONS.<br>CONDUCT ALL CHECKS AS ANNOTATED ON CHLORINE GENERATION SYSTEM LOG. | _____       |
|           | B) CHECK FOR LEAKS, CORROSION OR CRACKS IN PIPING &/OR PPG. REPAIR IF NEEDED.  |             |
|           | C) CHECK FOR PROPER TANK LEVELS & MAIN FLOW DAILY.   |             |
|           | D) CHECK WATER SOFTNER FILTERS MONTHLY. ROTATE UNITS AS REQUIRED.<br>VIBRATION.  |             |
|           | E) CLEAN BRINE WATER FILTERS MONTHLY.  |             |
|           | F) TAKE WATER SAMPLE FOR CHLORINE RESIDUAL READINGS.<br>COMPARE READINGS W/ ANALYZER. CALIBRATE IF NEEDED.   |             |
|           | G) CHECK FLOW CHARTS (ALLOWABLE DEVIATION +/- .1 PPM).<br>CALIBRATE IF OUT OF SPECS.   |             |
|           | H) REPLACE (4 EA) FLOW CHARTS WEEKLY.  | _____       |
| 40        | CHECK FLUORIDE SYSTEM ADD CHEMICALS, A) CHECK FLUORIDE PUMP FOR PROPER OPERATIONS.   | _____       |
|           | B) ROTATE PUMPS WEEKLY   |             |
|           | C) CHECK SATURATION TANKS DAILY  |             |
|           | D) ADD FLUORIDE DAILY<br>VIBRATION.  |             |
|           | E) CLEAN TANKS (3 EA) MONTHLY  |             |
|           | F) TAKE WATER SAMPLE FOR FLOURIDE RESIDUAL READINGS.<br>COMPARE READINGS W/ ANALYZER. CALIBRATE IF NEEDED.   |             |
|           | G) CHECK PUMP OIL LEVELS MONTHLY   |             |
|           | H) RECEIVE AND STORE MATERIAL WHEN NEEDED.   | _____       |
| 45        | RECORD ANALYZER / CHART READINGS/<br>VERIFY SCADA ON DAILY LOG   | _____       |
| 50        | ROUTINE FACILITY MAINTENANCE/ GENERAL HOUSEKEEPING   | _____       |
| 51        | VISUAL CHECK AROUND EXTERIOR OF STORAGE TANKS  | _____       |
| 55        | CHECK & VERIFY RESERVOIR LEVEL   | _____       |

| Operation | Description   | Observation |
|-----------|---|-------------|
| 60        | SECURITY CHECKS/LOCKS AND FENCELINE                     | _____       |
| 65        | CHECK BACKUP POWER SYSTEM STATUS/FUEL LEVEL             | _____       |
| 70        | INSPECT SAFETY EQUIPMENT                                | _____       |
| 75        | NOTE: WORK TO BE COMPLETED DAILY FOR 30 DAYS            | _____       |
| 80        | REPORT ANY DESC REP CIES TO SUPV FOR CORRECTIVE ACTION. | _____       |

**Date Completed**

Completed By

Supervisor

## Mechanics Remarks