

DES Advisory Board Meeting Second Quarter FY21 February 18, 2021





- Call to Order
- 2. Review & Approval of Previous Meeting Minutes
- 3. Customer Sales
- 4. nCOVID-19 Response
- 5. Review of DES Contractor Performance
- 6. Natural Gas Purchasing Update
- 7. FY20 Costs to Date
- 8. FY21 Budget
- 9. Marketing
- 10. Capital Projects Review & Status
- 11. Other Board Member Items
- 12. Adjourn



1. Call to Order

2. Review & Approval of Previous Meeting Minutes



3. Customer Sales

Summary Table 3: Customer Cost Comparison for the Previous 12 Months

| | | Steam - Rolling 12 Month | | | Chilled Water - Rolling 12 Month | | | |
|-----------|-----------------------|--------------------------|------------------------|---------|----------------------------------|------------------------|---------|--|
| | | Jan 2019 - Dec 2019 | Jan 2020 - Dec 2020 | % Diff. | Jan 2019 - Dec 2019 | Jan 2020 - Dec 2020 | % Diff. | |
| Private | Cost | \$ 1,443,898 | \$ 1,207,889 | -16.35% | \$ 3,707,481 | \$ 3,627,495 | -2.16% | |
| | Usage (lbs or tonhrs) | 100,360,047 | 80,036,285 | -20.25% | 19,982,794 | 16,122,808 | -19.32% | |
| State | Cost | \$ 1,744,166 | \$ 1,617,519 | -7.26% | \$ 3,208,378 | \$ 3,201,903 | -0.20% | |
| | Usage (lbs or tonhrs) | 110,602,780 | 101,812,921 | -7.95% | 12,712,201 | 12,300,061 | -3.24% | |
| Metro | Cost | \$ 1,846,550 | \$ 1,547,223 | -16.21% | \$ 4,972,753 | \$ 4,285,387 | -13.82% | |
| | Usage (lbs or tonhrs) | 158,932,509 | 135,716,725 | -14.61% | 29,127,362 | 20,860,325 | -28.38% | |
| Aggregate | Cost | \$ 5,034,614 | \$ 4,372,631 | -13.15% | \$11,888,612 | \$11,114,785 | -6.51% | |
| | Usage (lbs or tonhrs) | 369,895,336 | 317,565,931 | -14.15% | 61,822,357 | 49,283,194 | -20.28% | |
| | Unit Cost | \$ 13.61 | \$ 13.77 | 1.2% | \$ 0.192 | \$ 0.226 | 17.28% | |

MFA, True-up, late fees and misc. are not included in values shown



Figure 3A. Historic Chilled Water Sales

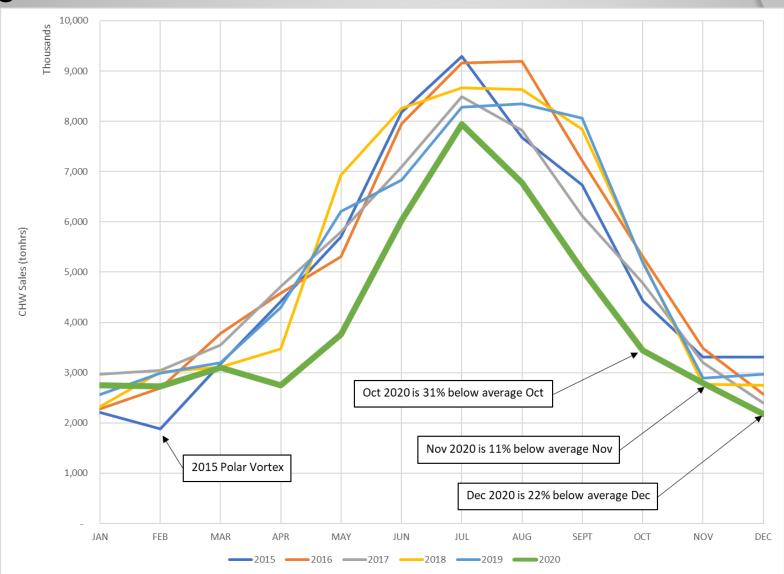
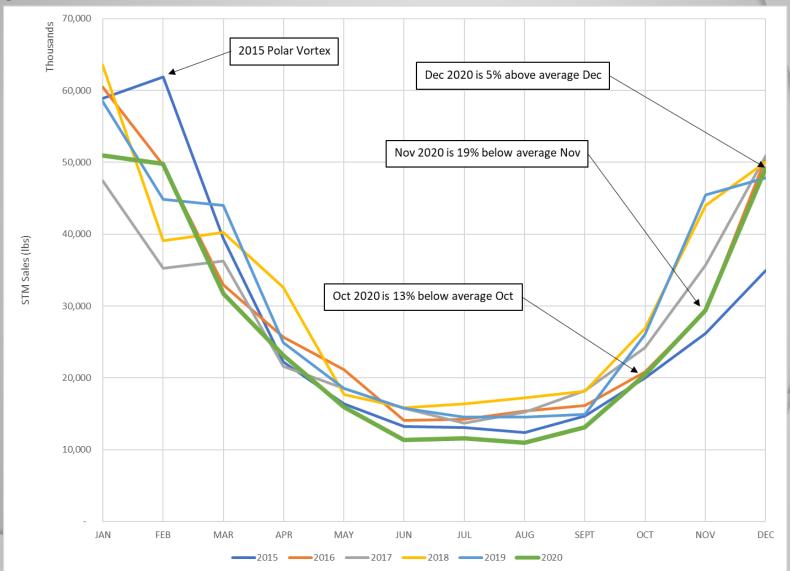




Figure 3B. Historic Steam Sales





4. nCOVID-19 Response

- DES Advisory Board voted in First Quarter meeting to waive late fees and revisit issue this meeting
- Two customers opted for deferral last summer and are making their payments; no new customer deferrals or requests
- There are no customers currently in arrears more than 30 days
- CNE continues to limit access to EGF to essential personnel only
- Tele-meetings and job-site meetings still occurring



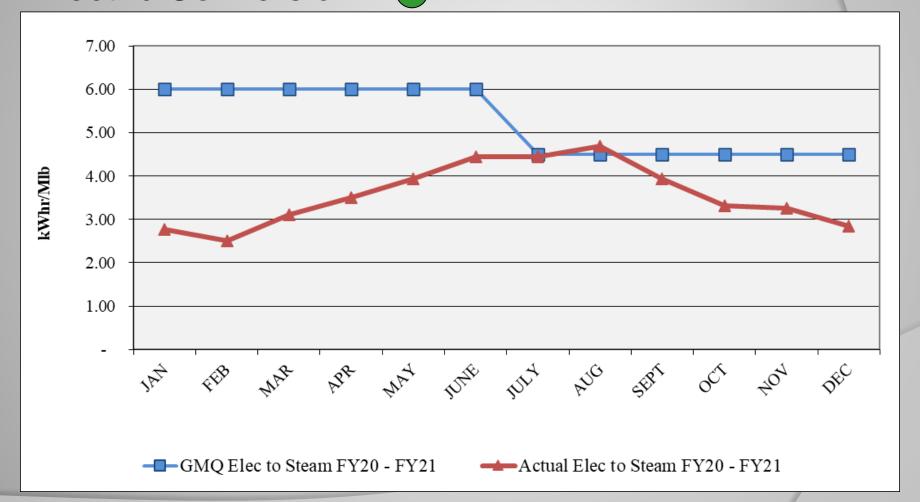
5. Review of DES Contractor Performance

Contractor (CNE) has met their contractual obligations for FY21 to date except for exceeding some of the new performance guarantees.

- Excellent Performance No Improvement Necessary
- Satisfactory Performance Some Improvement Could Be Made
- Poor Performance Much Improvement Necessary

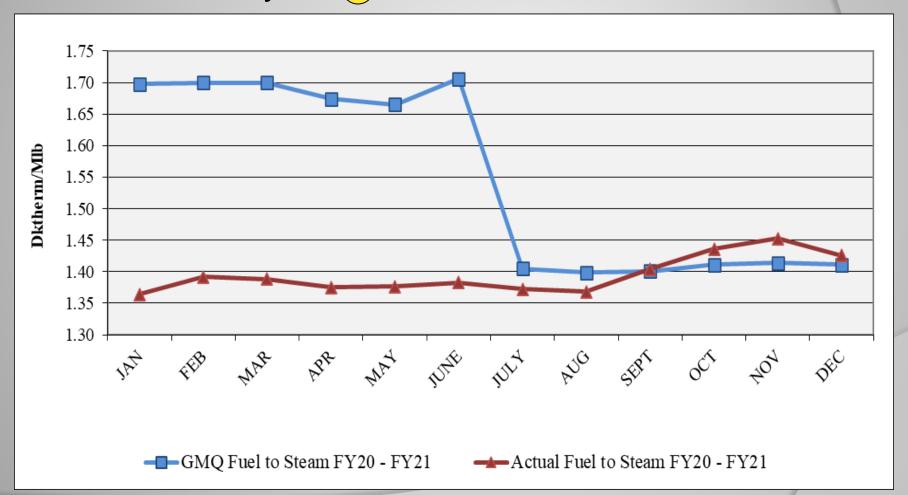


Performance Measurement FY21: Steam Electric Conversion



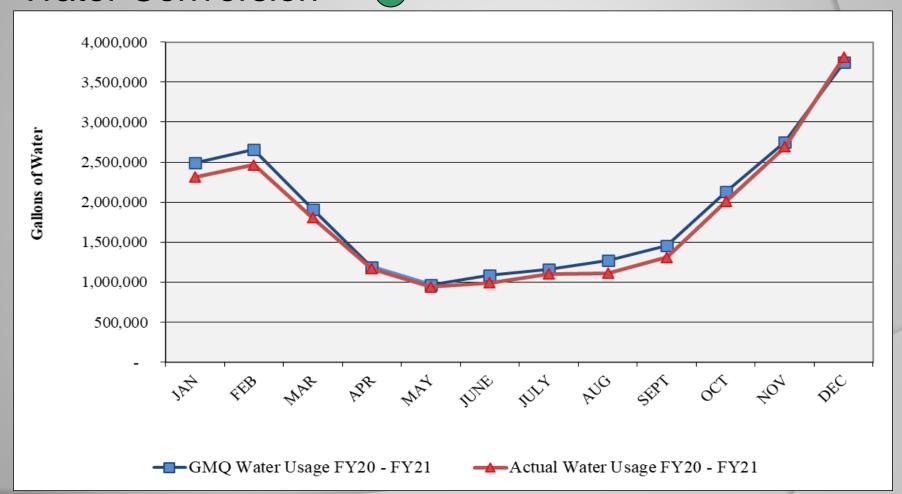


Performance Measurement FY21: Steam Plant Efficiency



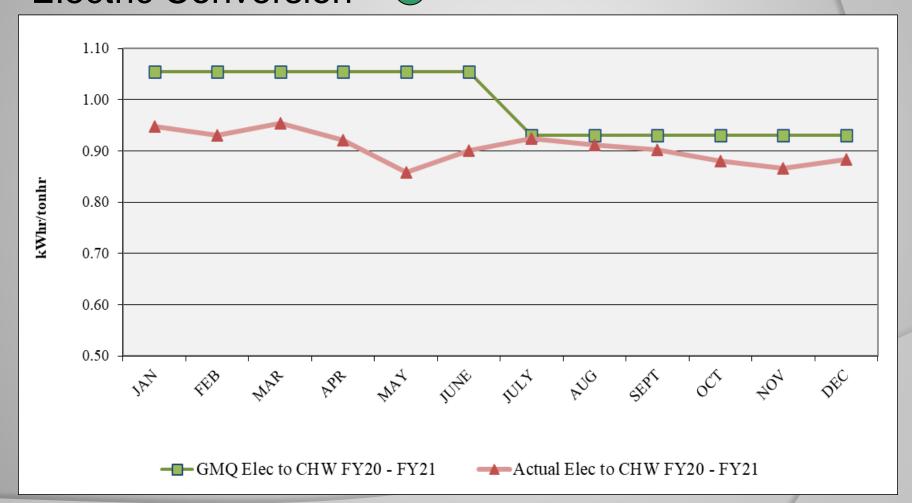


Performance Measurement FY21: Steam Water Conversion



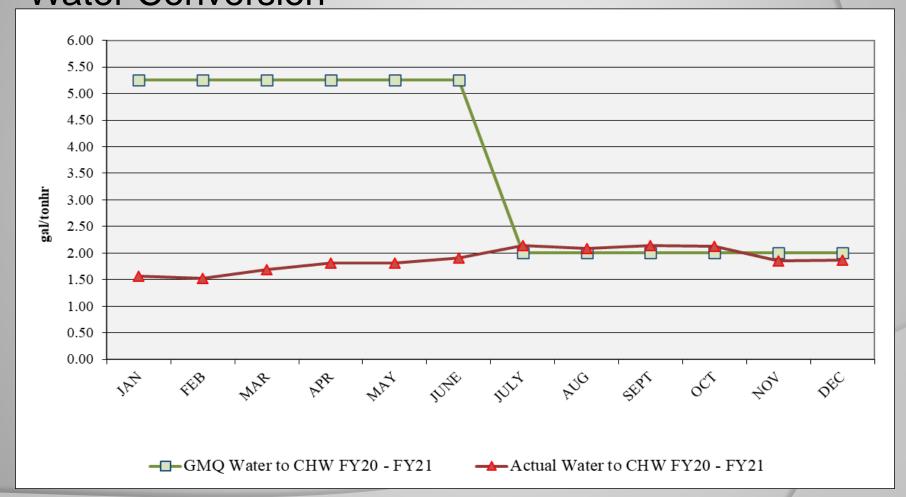


Performance Measurement FY21: CHW Electric Conversion





Performance Measurement FY21: CHW Water Conversion





Water Treatment

Q2FY21 Q1FY21 Q4FY20 Q3FY20

Steam and Condensate

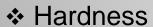








- Corrosion
- ❖ Iron
- Hardness; dumping condensate
- ❖ Chlorine/Sulfite
- Condensing Water
 - Conductivity
 - Biologicals
- Chilled Water



- Corrosion
- EGF and Customer Biologicals Good
- Deposits

















EGF Walkthrough

Q2FY21 Q1FY21 Q4FY20 Q3FY20

- ✓ Equipment Maintenance
- **+**

- ✓ Operations
- ✓ Electrical
- ✓ Housekeeping
- ✓ Building Structure
- Building Exterior and Grounds





























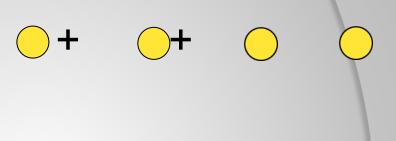




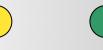
EDS Walkthrough

Q2FY21 Q1FY21 Q4FY20 Q3FY20

- ✓ Vault/Tunnel Housekeeping
- ✓ Maintenance Items
 - ✓ Insulation Repair/ Replacement
 - ✓ Water Infiltration
 - ✓ Corrosion of Structural Metal Components
- ✓ Safety Items



























6. Natural Gas Purchasing

- Natural Gas Purchasing Review
 - Table 6: FY21 Gas Spending & Budget Comparison
 - Figure 6: Actual and Projected Gas Cost Comparison



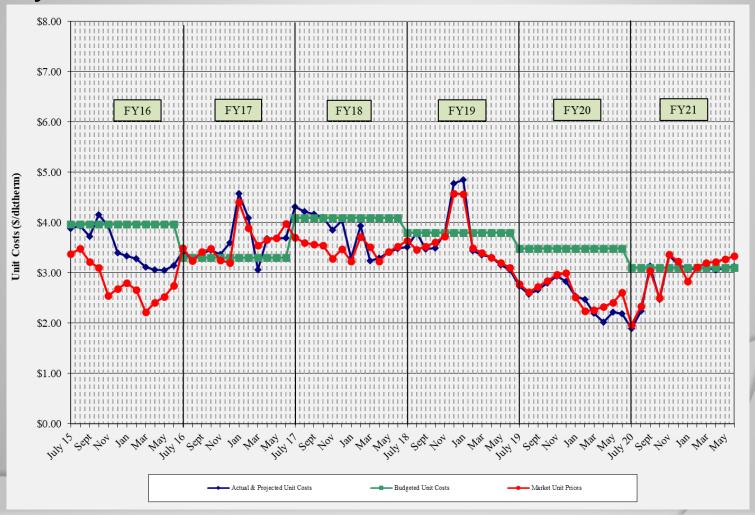
Table 6: FY21 Gas Spending & Budget Comparison

| | Actual FY21 To Dec 31 | Budget FY21 | Percent Difference |
|-----------------------------------|--------------------------|-------------|-----------------------|
| Steam Sendout (Mlbs) | 188,136 | 183,845 | 2.3% |
| Fuel Use (Dth) (includes propane) | 266,266 | 266,943 | -2.5% |
| Plant Eff (Dth/Mlb) | 1.415 | 1.452 | -2.5% |
| Total Gas Cost (includes propane) | \$690,900 | \$792,821 | -12.9% |
| Unit Cost of Fuel (\$/Dth) | \$2.595 | \$2.970 | -12.6% |

Excludes consultant fees and FEA and budget contingency; Includes transportation and actual propane costs and usages except unused pre-purchased propane



Figure 6. Actual and Projected Gas Cost Comparison History





7. FY21 Costs to Date

| Item | | | | | Percent |
|----------------------|----|-------------|---------|------------|-------------|
| | | FY21 Budget | | Y21 Actual | of |
| | | | to date | | FY21 Budget |
| | | | | | |
| FOC's | \$ | 3,776,800 | \$ | 1,888,405 | 50.00% |
| Pass Throughs | | | | | |
| Administrative Costs | \$ | 393,900 | \$ | 167,819 | 42.60% |
| Chemicals | \$ | 260,700 | \$ | 140,141 | 53.76% |
| R&I Fund Transfers | \$ | 291,900 | \$ | 145,950 | 50.00% |
| Water/Sewer | \$ | 624,000 | \$ | 504,703 | 80.88% |
| Fuel Base | \$ | 2,001,900 | \$ | 790,306 | 39.48% |
| Fuel Contingency | \$ | 431,900 | \$ | _ | 0.00% |
| Electricity | \$ | 6,130,100 | \$ | 2,198,940 | 35.87% |
| ORF Deposit | \$ | - | \$ | - | |
| Debt Service | \$ | 5,098,000 | \$ | 2,665,609 | 52.29% |
| Total Expenses | | 19,009,200 | \$ | 8,501,873 | 44.73% |
| | | | | | |
| Total Revenues | | 18,378,500 | \$ | 8,000,704 | 43.53% |
| | | | | | |
| Metro Funding | \$ | 630,700 | \$ | 315,350 | 50.00% |

Actual Costs and Revenues to Date include FY20 True-up Items and exclude 3rd Qtr debt service.



8. FY21 Budget

| Item | | | | | Percent |
|-----------------------|----|-------------|----|------------|-------------|
| | | FY20 Budget | | Y21 Budget | Change From |
| | | | | | FY20 Budget |
| | | | | | |
| FOC's | \$ | 4,601,600 | \$ | 3,776,800 | -17.92% |
| Pass Throughs | | | | | |
| Administrative Costs | \$ | 393,600 | \$ | 393,900 | 0.08% |
| Chemicals | \$ | 253,100 | \$ | 260,700 | 3.00% |
| R&I Fund Transfers | \$ | 287,600 | \$ | 291,900 | 1.50% |
| Water/Sewer | \$ | 714,000 | \$ | 624,000 | -12.61% |
| Fuel Base | \$ | 2,575,700 | \$ | 2,001,900 | -22.28% |
| Fuel Contingency | \$ | 507,000 | \$ | 431,900 | -14.81% |
| Electricity | \$ | 5,977,200 | \$ | 6,130,100 | 2.56% |
| ORF Deposit | \$ | - | \$ | - | |
| Debt Service | \$ | 5,079,200 | \$ | 5,098,000 | 0.37% |
| Total Expenses | \$ | 20,389,000 | \$ | 19,009,200 | -6.77% |
| | | | | | |
| Total Revenues | \$ | 19,070,500 | \$ | 18,378,500 | -3.63% |
| | | | | | |
| Metro Funding | \$ | 1,318,500 | \$ | 630,700 | -52.17% |



9. Marketing

Remaining Capacity for Sale (approximate)

- 2,429 tons of chilled water
- 24,622 pph of steam

Potential Customers

- Service to Lot K (Peabody Union)
 - Site directly to the east of EGF
 - Potential ~1,000 ton and ~15,000 pph



Marketing (con't)

- Service to New KVB Hotels
 - Two hotels with retail space; discussions favorable
 - Site is between 1st Ave S, 2nd Ave S, KVB and Peabody St
 - Potential ~1,400 tons and ~20,000 pph
- Peabody St Hotel
 - Potential 2,000 to 3,000 tons
- New Development North of KVB
 - Potential ~1,100 tons and ~15,000 pph



Marketing (con't)

- Union Street Hotel
 - Ongoing renovation of existing building on Union St
 - Developer waiting on financing approval
 - Potential 100 tons and no steam



10. Capital Expenditure Update

| | Spent to End of FY20 | FY21 Spending | Balance to Date (01/21/21) |
|-------------------------------|-------------------------|------------------|-------------------------------|
| R&I Projects | \$3,887,279 | \$129,838 | \$179,826 |
| 49109-2010 Bond | \$2,600,602 | \$5,314 | \$0 |
| 49107-DES Infrastructure Fund | \$8,499,961 | \$39 | \$0 |
| 49116-DES Infrastructure Fund | \$1,568,389 | \$514,766 | \$716,171 |
| Total | \$16,556,231 | \$649,954 | \$895,997 |



Active Capital Projects – General & Marketing

- DES 133.1: Broadway Tunnel Damage Recovery ongoing
- DES 139: Options Review ongoing
- DES 163: MDHA Parcel K Service development on hold
- DES 168: DES Service to 1st and KVB Hotels development on hold



Active Capital Projects – Corrosion Repair/Prevention

- DES 153: MH L Repairs anticipate completion 3rd Qtr FY21
- DES 171: Broadway Tunnel Pipe Support Repairs construction began 2nd Qtr; anticipate completion 4th Qtr FY21
- DES 172: Viridian Service Line Support Repairs construction began 2nd Qtr; anticipate completion 4th Qtr FY21
- DES 173: Manhole B3 Repairs construction/completion 2nd Qtr FY21; awaiting final punch list review
- DES 174: 7th Avenue Tunnel Pipe Support Repairs construction began 2nd Qtr; anticipate completion 4th Qtr FY21



Active Capital Projects – Piping Repairs/Modifications

- DES 175: Manhole 4 Condensate Return elim. Trap station; construction during 2nd Qtr FY21; anticipate completion 3rd Qtr FY21
- DES 181: CHW and CND Leak Repairs on 3rd Ave N construction completed on both leaks during 2nd Qtr FY21; awaiting cost substantiation
- DES 182: MH B10 Exp Jt Replacement steam exp. jt. bound & requires replacement along w/anchor repairs; requires isolation of MCC; anticipate construction late 3rd Qtr/early 4th Qtr FY21
- DES 183: Hermitage Hotel Svc Line Modifications Hotel installing grease trap which may req. modifications to steam, condensate & chilled water svc piping; awaiting plan from hotel contractor



Capital Projects – Awaiting Metro Approval

- DES 152: MH A & M Coating Repairs (MH B added to scope) corrosion repairs
- DES 154: MH K Repairs corrosion/concrete repairs
- DES 161: MH S6 Insulation combining w/MH N1 & N2
- DES 177: MH B1 Ladder & Platform safety; sump pump MH; needs maintenance platform & new ladder; design complete
- DES 178: MH 5 Repairs corrosion/concrete/insulation repairs
- DES 179: MH 11 Repairs corrosion/concrete/insulation repairs
- DES 180: State Tunnel Pipe Support Repair corrosion/concrete repairs



Capital Projects - Closed/In Close-out

DES 157: MH 9 Repairs

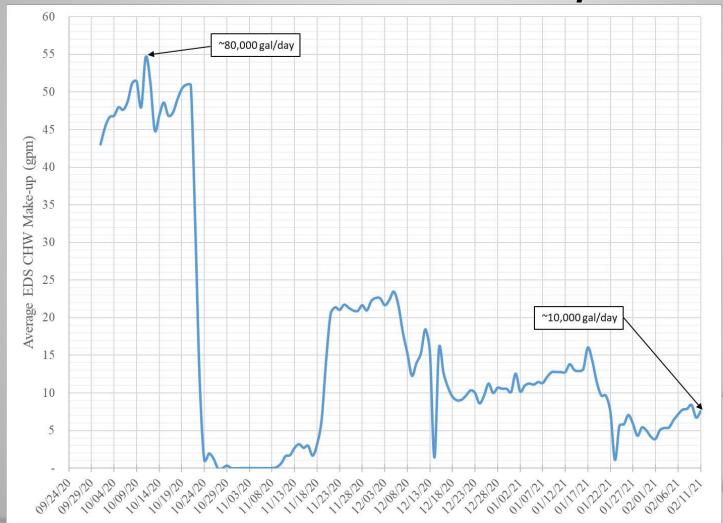
DES 159: MH B2 Repairs

DES 169: MH 20 Repairs

DES 176: MH 9 Condensate Leak



Chilled Water EDS Make-up





11. Other Board Member Items

12. Adjourn

- > Advisory Board Meeting Schedule
- ➤ FY21 3rd Quarter Meeting May 20, 2021
- > FY21 4th Quarter Meeting August 19, 2021
- FY22 1st Quarter Meeting November 18, 2021
- > FY22 2nd Quarter Meeting February 17, 2022