

MURFEE ENGINEERING COMPANY, INC.

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M E M O R A N D U M

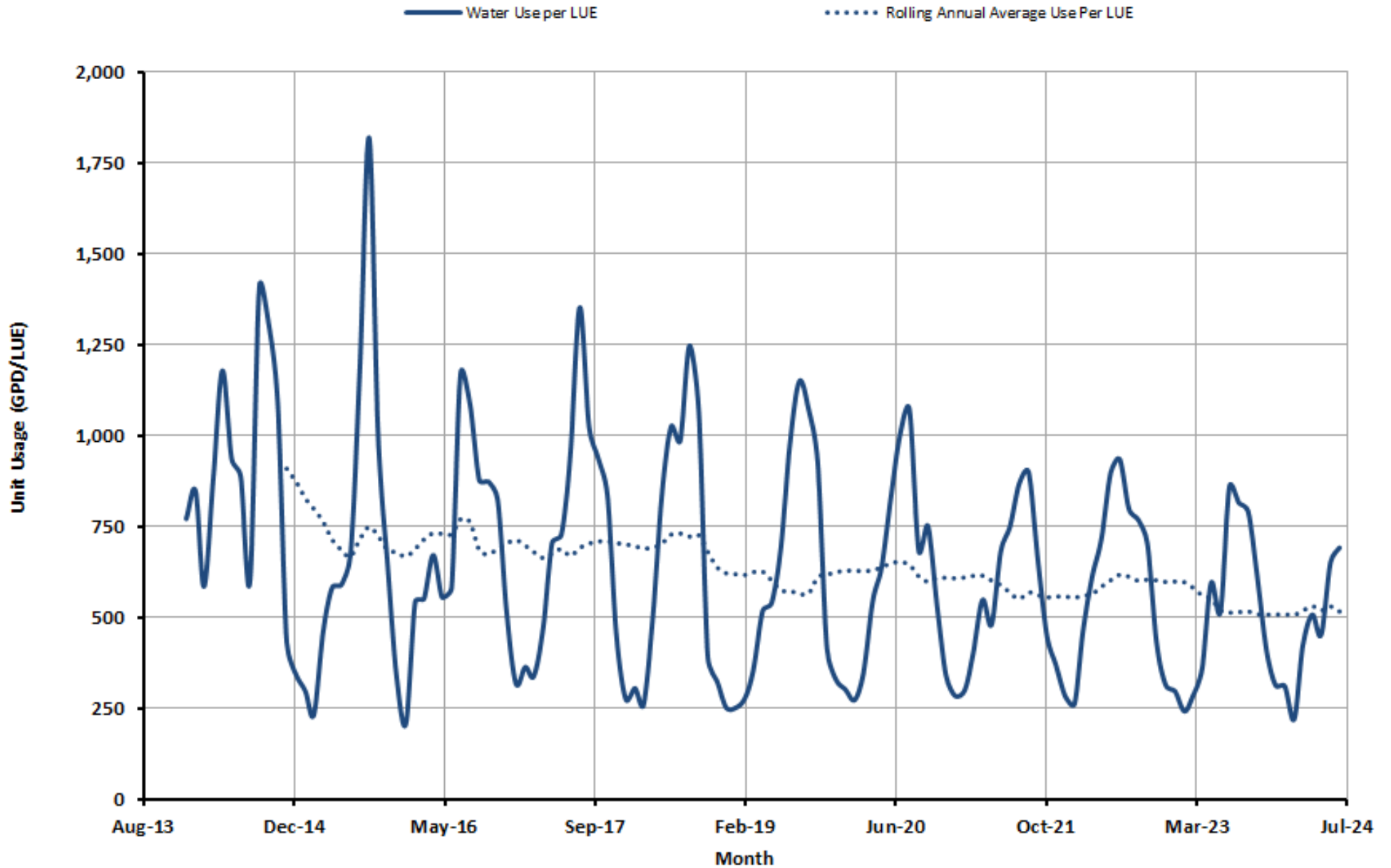
DATE: August 20th, 2024
TO: BOARD OF DIRECTORS – REUNION RANCH WCID
FROM: MARK KESTNER PE
RE: ENGINEERS REPORT
CC: BILL FLICKINGER – WILLATT & FLICKINGER

- a. Wastewater Collection and Treatment Plant
 - i. Wastewater Flows and Trends
 - Attached is an updated figure tracking wastewater flows to the existing WWTP vs. projections and permit milestones.
 - This figure includes calculated wastewater flow values produced per household (LUE).
 - SCADA integration of the weir readings is complete as well as recapture of historical flows.
 - ii. Improvements
 - A Payment request to close out the conveyor construction project is anticipated – the retainage is the only outstanding item.
 - CCTV of wastewater system was last performed Aug 2020, will have to schedule within the next year.
 - iii. Operational Issues
 1. Effluent Quality has been in accordance with Plant Permits this year.
 2. INFLOW AND INFILTRATION
 - MEC is coordinating with Inframark to recapture the effluent weir data.
 3. Texas Land Application Permit (TLAP)
 - We have checked in with TCEQ and they have long queue of permit reviews. We are in compliance having submitted our new permit and addressed all comments. RRWCID will continue to operate under the old permit conditions until the new permit is issued.

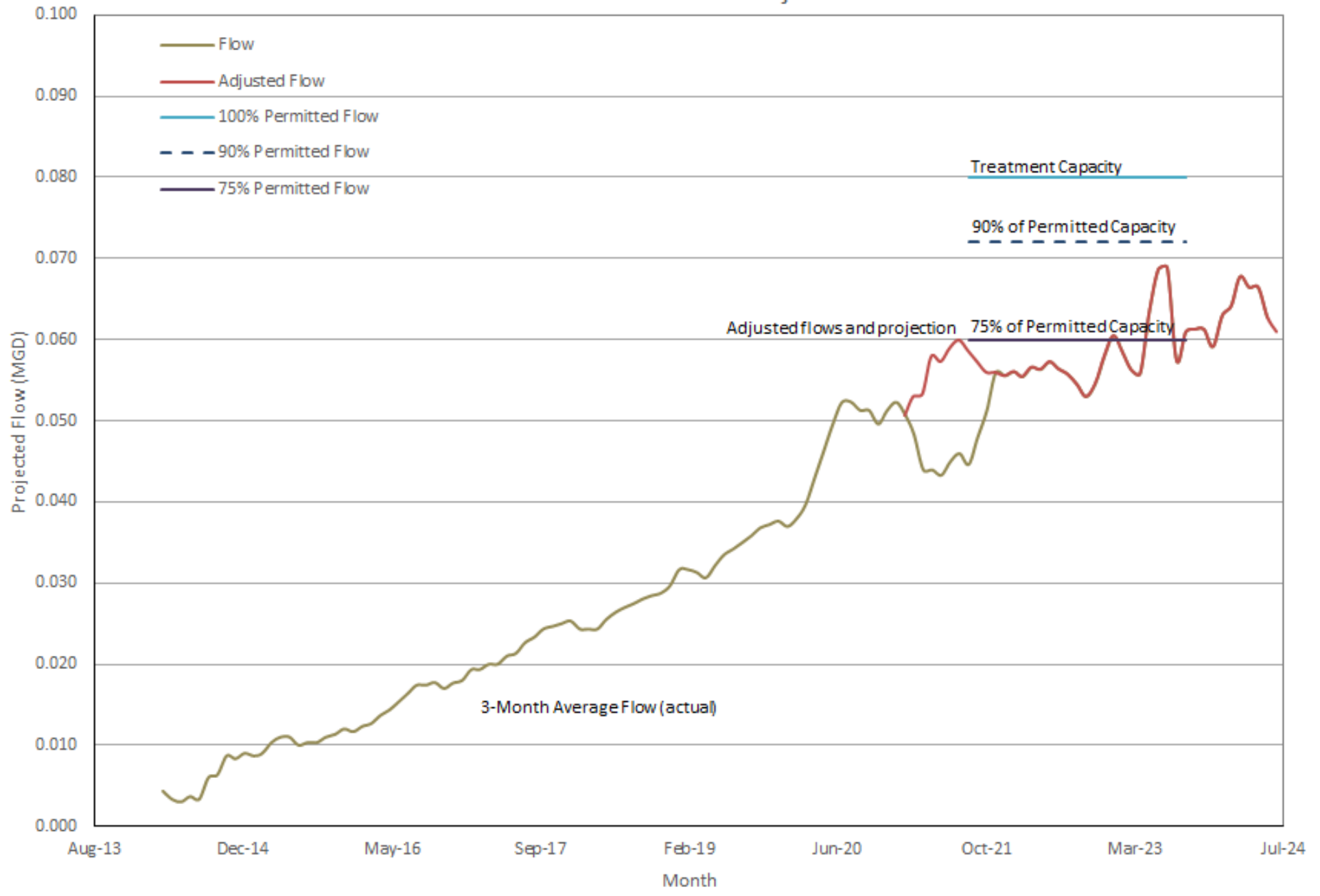
- iv. Wastewater Plant Efficiency Plan
 - 1. Details of the 210 irrigation system are being worked out with Malone Wheeler including ownership and maintenance demarcation and reliable flow measurement for both the drip fields and the irrigation system.
- b. Water Supply and Distribution System
 - i) Water Flows and Trends
 - Charts showing the historic and current water use, both total and per connection, by the community are attached.
 - ii) LCRA Contract – Current Reservation
 - HOA Request for Irrigation Variance. LCRA will accept an alternate plan for irrigation of common areas spread across multiple days.
 - iii) Lead and Copper Rule Revision (LCRR)
 - The inventory is complete, and has been submitted to TCEQ ahead of the Oct, 2024 deadline.
- c. Long-Term Improvements and Asset Management Plan – 2024 Budget
 - i) Draft 2024-2025 Budgets are being coordinated and updated for engineering, maintenance, and capital projects.
- d. Emergency Management Plan(s)
 - i) Wastewater System Emergency Response Plan

Has been sent out to the committee for 90% review.
- e. Stormwater and Water Quality System
 - i) No ongoing projects or updates.
- f. Approvals Related to Ongoing Construction Contracts
 - i) Currently there are no approvals for Board Consideration
- g. Approvals Related to Upcoming Construction Contracts
 - i) Currently there are no approvals for Board Consideration

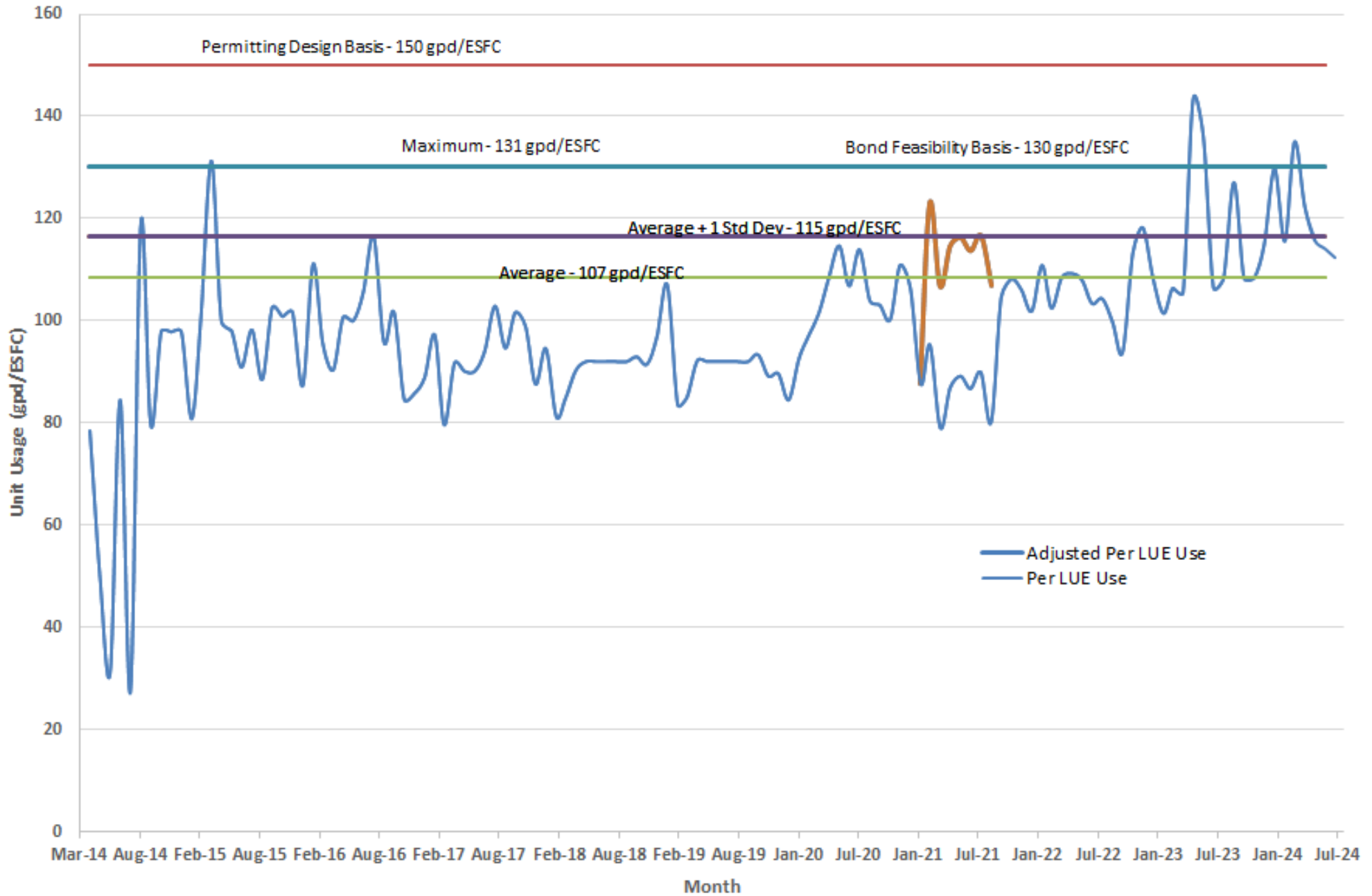
Reunion Ranch WCID Per LUE Water Use Trends



Reunion Ranch WCID Wastewater Flow Projections



Reunion Ranch WCID WWTP Unit Usage Analysis



EFFLUENT COMPOSITE CHART

Maximum Permit Limits
 Turbidity 3 NTU 30 Day Average
 BOD5 5 mg/l 30 day Average
 E.Coli 20 MPN 30 day Geometric Mean
 75 MPN Maximim Grab Sample

