

Town of Paradise Town Council Meeting Agenda 6:00 PM – February 14, 2023

Town of Paradise Council Chamber - 5555 Skyway, Paradise, CA

Mayor, Greg Bolin Vice Mayor, Rose Tryon Council Member, Steve Crowder Council Member, Steve "Woody" Culleton Council Member, Ron Lassonde Town Manager, Kevin Phillips
Town Attorney, Scott E. Huber
Town Clerk/Elections Official, Dina Volenski
CDD, Planning & Onsite, Susan Hartman
CDD, Building & Code Enforcement, Tony Lindsey
Finance Director/Town Treasurer – Ross Gilb
Public Works Director/Town Engineer, Marc Mattox
Division Chief, CAL FIRE/Paradise Fire, Patrick Purvis
Chief of Police, Eric Reinbold
Recovery & Economic Development Director, Colette Curtis
Human Resources & Risk Management Director, Crystal Peters

Information Systems Director, Luis Marquez

Meeting Procedures

I. The Mayor is the Presiding Chair and is responsible for maintaining an orderly meeting. The Mayor calls the meeting to order and introduces each item on the agenda.

- II. The Town staff then provides a report to Council and answers questions from the Council.
- III. Citizens are encouraged to participate in the meeting process and are provided several opportunities to address Council. Any speaker addressing the Council is limited to three minutes per speaker fifteen minutes per agenda item
 - A. If you wish to address the Council regarding a specific agenda item, please complete a "Request to Address Council" card and give it to the Town Clerk prior to the beginning of the meeting. This process is voluntary and allows for citizens to be called to the speaker podium in alphabetical order. Comments and questions from the public must be directed to the Presiding Chair and Town Council Members (please do not address staff.) Town staff is available to address citizen concerns Monday through Thursday at Town Hall between the hours of 8am and 5pm.
 - B. If you wish to address Council regarding an item not on the agenda, you may do so under Item 4, "Public Communication." Again, please fill out a card and give it to the Town Clerk before the meeting. State Law prohibits Council action on items not listed on a public agenda.

In compliance with the Americans with Disabilities Act (ADA) Compliance, persons who need special accommodations to participate in the Town Council meeting may contact the Town Clerk at least three business days prior to the date of the meeting to provide time for any such accommodation.

1. OPENING

- Call to Order
- 1b. Pledge of Allegiance to the Flag of the United States of America
- 1c. Invocation
- 1d. Roll Call
- 1e. Proclamation recognizing Senator Dianne Feinstein, Senator Alex Padilla and Congressman Doug LaMalfa for their assistance in securing funding for the Roe Road Project.
- 1f. Proclamation recognizing Alliance For Workforce Development.
- 1g. Special recognition is awarded to sworn and non-sworn police personnel and volunteers for their exemplary contributions to the department.

Police Officer of the Year: Officer Derek Archuleta
Civilian Employee of the Year: Support Services Supervisor Jeannette
Huggins

VIP of the Year: Frank Dodini

PASH Volunteer of the Year: Richard Abbott

1h. Camp Fire Recovery Updates - Written reports are included in the agenda packet.

p6 Colette Curtis, Recovery and Economic Development Director - Recovery Projects, Advocacy, Economic Recovery and Development, Communications and Emergency Operations.

p9 Marc Mattox, Public Works Director/Town Engineer - Infrastructure and sewer Update

p11 Tony Lindsey, CDD-Building and Code Enforcement - Code Enforcement Update

p17 Kate Anderson, Business and Housing Manager - Business and Housing Update

2. CONSENT CALENDAR

One roll call vote is taken for all items. Consent items are considered to be routine business that does not call for discussion.

- <u>2a.</u> p19 Approve the Regular, January 10, 2023 and Special, January 17, 2023 meeting minutes of the Paradise Town Council.
- <u>2b.</u> p26 Approve January 2023 Cash Disbursements in the amount of \$3,196,412.63
- 2c. p34 Declaring the attached itemized list of equipment from the Fire Department as surplus property; and, adopt Resolution No. 2023-04, "A Resolution of the Town Council of the Town of Paradise Declaring Certain Property to be Surplus and Authorizing Disposal Thereof".
- 2d. p38 Adopt Resolution No. 2023-05, "A Resolution of the Town Council of Town of Paradise accepting the work performed under the On-System

- Culvert Repair Project (Contract No. 7301.CON) Performed by Escheman Construction Company."
- 2e. p41 Adopt Resolution No. 2023-06, "A Resolution of the Town Council of the Town of Paradise Amending and Re-Adopting Conflict of Interest Code for the Agencies and Departments of the Town of Paradise Which Incorporate by Reference the Fair Political Practices Commission's Standard Model Conflict of Interest."
- 2f. p48 Adopt Resolution No. 2023-07, "A Resolution of the Town Council of Town of Paradise Accepting the Work Performed Under the Off-System Culvert Repair Project (Contract No. 8408.CON) Performed by Allen Gill Construction, Inc."
- 2g. p51 Review and file the 2nd Quarter Investment Report for the Fiscal Year Ending June 30, 2023.

3. ITEMS REMOVED FROM CONSENT CALENDAR

4. PUBLIC COMMUNICATION

For matters that are not on the Council business agenda, speakers are allowed three (3) minutes to address the Council. The Town Council is prohibited from taking action on matters that are not listed on the public agenda. The Council may briefly respond for clarification and may refer the matter to the Town staff.

5. PUBLIC HEARINGS - None

6. COUNCIL CONSIDERATION

Action items are presented by staff and the vote of each Council Member must be announced. A roll call vote is taken for each item on the action calendar. Citizens are allowed three (3) minutes to comment on agenda items.

- <u>6a.</u> p73 Review the updated Federal Advocacy Platform and provide comments to staff.
- 6b. p90 1. Consider concurring with the recommendation of the interview panel; and, 2. Appoint applicant Charles Homan to fill the existing vacancy on the Planning Commission (effective immediately with term to expire June 30, 2024; or, 3. Consider an alternative direction. (ROLL CALL VOTE)
- 6c. p92 1. Consider approving the formation of a public services sub-committee to consider input and requests for public services funding; and, 2. Appoint two Council members to the public services sub-committee. (ROLL CALL VOTE)
- 6d. p94 1. Consider reviewing and approving the proposed Inter-Municipal Agreement and authorize the Town Manager to execute following review and approval by the Town Attorney, City of Chico City Council and City Attorney; and 2. Authorize the Town Manager to approve minor adjustments to the Inter-Municipal Agreement as requested by the City of Chico during its review and consideration process; and 3. Direct staff to continue the next steps in the Paradise Sewer Project including supporting the City of Chico

- in an application to the Butte Local Agency Formation Commission for the extension of wastewater treatment services to the Town of Paradise; or, 4. Provide alternative action. (ROLL CALL VOTE)
- 6e. p366 Upon conclusion of public discussion of this agenda item: 1. Consider establishing a standing committee of the Town Council entitled "Legislative Committee" and appoint two members of the Council to the serve on the committee, including setting policies and priorities of the committee; or, 2. Provide an alternative directive to Town staff.
- 6f. p368 1. Consider reviewing and filing the financial information provided by staff concerning the FY 2022-23 operating and capital budgets; and
 - 2. Approve position control from 1.0 to 0.9 FTE for the Senior Accountant position; and
 - 3. Approve position control from 0.6 to 0.9 FTE for the Administrative Assistant (Public Works) position; and
 - 4. Approve the job classification of Engineering Intern and add this new position to the salary pay plan and position control; and
 - 5. Approve the job classification of Accounting Analyst and add this new position to the salary pay plan and position control; and
 - 6. Adopt Resolution No. 2023-___, "A Resolution of the Town Council of the Town of Paradise, California adopting the amended Salary Pay Plan for Town of Paradise Employees for the Fiscal Year 2022-2023; and
 - 7. Approve staff recommended budget adjustments. (ROLL CALL VOTE)
- 6g. p458 1. Consider reviewing and approving the Memorandum of Understanding (MOU) with local non-profits for lot acquisition for affordable homeownership; and, 2. Adopt Resolution No. 2023-____ "A Resolution of the Town Council of the Town of Paradise Directing the Method of Purchase of Lots for the Construction of Affordable Housing and Making Findings Related Thereto." (ROLL CALL VOTE)
- <u>6h.</u> p464 Provide direction regarding future spending of transient occupancy tax revenues.

7. COUNCIL INITIATED ITEMS AND REPORTS

- 7a. Council initiated agenda items
- 7a1. Discuss enforcement of professional landscapers blowing and leaving the leaves in the street. (BOLIN)
- 7b. Council reports on committee representation
- 7c. Future Agenda Items

8. STAFF COMMUNICATION

- 8a. Town Manager Report
 - Community Development Director

9. CLOSED SESSION - None

10. ADJOURNMENT

STATE OF CALIFORNIA) COUNTY OF BUTTE)	SS.
	am employed by the Town of Paradise in I posted this Agenda on the bulletin Board the following date:
TOWN/ASSISTANT TOWN CLERK SIG	GNATURE



Town of Paradise

Council Agenda Summary

Agenda Item: 1(h)

Date: February 14, 2023

ORIGINATED BY: Colette Curtis, Recovery and Economic

Development Director

REVIEWED BY: Kevin Phillips, Town Manager

SUBJECT: Monthly Recovery Update

LONG TERM Yes

RECOVERY PLAN:

COUNCIL ACTION REQUESTED:

1. None

Background:

This report continues the Monthly Updates provided to keep the Town Council apprised of important developments related to the recovery of the Town of Paradise from the Camp Fire. Included in this update are items related to recovery projects, advocacy economic recovery and development, communications and emergency operations.

Analysis:

ECONOMC DEVELOPMENT

Business Assistance Programs

- Business Investment Grant (BIG) Program
 - 112 applications received during the application period.
 - 15 applicants were selected through a lottery process. Application numbers were chosen at random by a number generator.
 - Checks are being sent out as selected businesses return their required paperwork.
- Commercial Sign Removal Program
 - o Application period opened January 16th 2023.
 - 2 applications have been received to date.

Business Retention and Attraction

- Big Lots opened in the old Rite Aid Building on Dec. 1st.
- A national clothing retailer is planning to occupy the other side of the old Kmart building, next to Tractor Supply. Staff has been working with the development staff for the retailer.
- Paradise Brew Werks, a local microbrewery, is moving forward with plans to establish themselves in Town. They have acquired property on Skyway (old Big 5 Property).

CDBG-DR Economic Development

 The Butte County allocation for CDBG DR Economic Development has been announced at \$18.7 million.

- The Notice of Funding Availability (NOFA) is expected to be released in March 2023, and we will have more information on what projects will be eligible.
- In preparation, the Town is working with our regional workforce partners on potential projects.

RECOVERY

Category 4 Tree Removal Program

- We opened the program to applicants on July 25th and received 577 applicants. This represents 1,014 acres of private property across the Town.
- The assessment Phase has been completed. Nearly 11,000 standing dead trees have been identified, tagged and catalogued for review by FEMA/CalOES
- Phase 2 continues to be in Federal Environmental Review. The draft Environmental Assessment is now complete and in final review with FEMA.
- Tree cutting process would commence after full phase 2 approval of submitted tree inventory.
- We are finalizing the plan for tree removal and anticipate bringing that to council in March.

Early Warning System

- The Early Warning System was fully approved in April 2022 and a contract was awarded in July 2022.
- Our contractor has ordered long lead-time materials and is working on coordinating utilities for each of the 21 sites.
- We are working with PPRD and PUSD on formal agreements for the towers which are on their property.
- We are working to survey tower sites in public right-of-ways to confirm locations.
- We are finalizing the power access in partnership with PG&E. Materials will begin arriving in early March and we anticipate construction beginning soon after.

Residential Ignition Resistant Retrofit Program

- Undergoing Federal Environmental Review. The draft Environmental Assessment is now complete and in final review with FEMA.
- All other Town required action items are complete
- We are in the middle of the procurement process for a lead management contractor to assist in finishing the phase 1 criteria and opening applications to the public by the end of March.

Hazardous Fuels Reduction Program

- Undergoing Federal Environmental Review. The draft Environmental Assessment is now complete and in final review with FEMA.
- All other Town required action items are complete.

Defensible Space Code Enforcement

- Undergoing Federal Environmental Review. The draft Environmental Assessment is now complete and in final review with FEMA.
- All other Town required action items are complete.

Abatement Update

• We continue to move forward with the ~100 properties that are not compliant with the hazardous tree ordinance utilizing a complaint driven legal abatement process.

COMMUNICATIONS

- TOP POP Events
 - o In order to build community in Paradise during the 5th anniversary year after the Camp Fire, the Town is hosting 12 months of pop-up events around town.
 - These events are a way to help acknowledge the progress and rebuilding over the last 5 years.
 - Each month, different pop-up events will take place around town, with a local partner organization hosting the event.
 - o In January, the Paradise Equilibrium Center hosted the first TOP POP event, inviting residents to share their New Year's resolutions for the Town.
- Community Relations Committee (CRC)
 - The CRC continues to meet monthly and has recently added new members representing the Gold Nugget Museum and Paradise Art Center.
- Upcoming Recovery Events
 - Staff is planning a media event for the installation of the Early Warning System towers in January or February 2023.

EMERGENCY MANAGEMENT

- A full scale EOC exercise is in the initial planning stages for Spring or early Summer 2023
 - o The exercise will involve the community and cooperator agencies
 - o A months long information and education campaign will precede the exercise
 - o The Early Warning System will be utilized as part of the exercise

Financial Impact:

None.



TOWN OF PARADISE Council Agenda Summary Date: February 14, 2023

Agenda No. 1(h)

ORIGINATED BY: Marc Mattox, Public Works Director / Town Engineer

REVIEWED BY: Kevin Phillips, Town Manager

SUBJECT: Camp Fire Recovery Updates - Infrastructure

COUNCIL ACTION REQUESTED:

1. None, written monthly update only.

Background:

This report continues the Monthly Disaster Recovery Updates provided to keep the Town Council apprised of important developments related to the recovery of the Town of Paradise from the Camp Fire.

Analysis:

Road Rehabilitation

As previously covered in related Agenda Summaries and Updates, the Town of Paradise has secured funding from both FEMA and Federal Highways Administration for the purposes of road rehabilitation associated with Camp Fire damages from the fire itself, debris removal and tree removal operations. These projects cover all Town of Paradise publicly owned and maintained roadways.

A revised paving plan has been published here:

https://www.google.com/maps/d/u/0/viewer?mid=1w-PjuvtL5rmmOj_EM-4IFaj7sV-YVRs&II=39.763511840651375%2C-121.61120815000001&z=13

This paving plan informs residents of which roads are expected to be paved in which calendar year. The plan will be updated frequently as actual field conditions change.

The first project in this series, Skyway between Crossroads and Westchester Way is nearing full closeout, anticipated to be considered by Council in March 2023.

Further, the Town has awarded a contract for about half of 2023's paving schedule, with the remaining half of work pending FEMA's review of the Town's Improved Project request.

Paradise Sewer Project

Efforts for Past Month:

- Previous Updates:
 - The Central Valley Regional Water Quality Control Board (Regional Board) hosts meetings of the Sewer Regionalization Project Advisory Committee (SRPAC). The SRPAC last met on March 21, 2022 at the City of Chico council chambers and

finalized the first draft of the Principles of Agreement (POA). The POA served as a starting point for drafting an inter-municipal agreement (IMA) between Paradise and Chico to address treatment of Paradise wastewater at the Chico Water Pollution Control Plant. Information about SRPAC meetings, including agendas and meeting minutes, are at www.paradisesewer.com.

- The 30-day appeal period for the Final EIR closed on December 8, 2022. No appeals were filed.
- Continued to update the project's public website (www.paradisesewer.com).
- Continued working with City of Chico staff to finalize the draft IMA.
- Continued funding application efforts with the State and CDBG-DR.

Efforts for Next Month:

- Present the IMA to the Paradise Town Council on February 14 and Chico City Council on February 21 during regular Council meetings for their respective consideration.
- Continue funding application efforts and funding due diligence.

Town of Paradise



Council Agenda Summary

Date: February 14th, 2023

ORIGINATED BY: Tony Lindsey, Community Development

Director, Building & Code Enforcement

Agenda Item: 1(h)

REVIEWED BY: Kevin Philips, Town Manager

SUBJECT: Camp Fire Recovery Updates – Code Enforcement

LONG-TERM No

RECOVERY PLAN:

COUNCIL ACTION REQUESTED:

1. Code Enforcement Update

Background:

The mission of the Code Enforcement Division is to promote and maintain a safe and desirable living and working environment. We help maintain and improve the quality of our community by administering a fair and unbiased enforcement program to correct violations of municipal codes and land use requirements. We work with residents, neighborhood associations, public service agencies, and other Town departments to:

- Facilitate voluntary compliance with Town codes.
- Empower community self-help programs.
- Develop public outreach programs.
- Establish community priorities for enforcement programs.

Analysis:

Code Enforcement receives complaints of violations from staff and general community members. Each complaint is investigated and verified by our Officers.

Temporary Use Permits (TUPs) issued under Urgency Ordinance 612 as of 1/31/2023 = 256 (Exhibit A):

- 37 Parcels with RV Storage only
- 219 Parcels permitted to occupy an RV (125 currently occupied)
- 20 Accessory structures (Sheds, Shops, Non-habitable)
- 3-Months before Ordinance 612 expiration, informational notifications were distributed by certified and first-class mail to the current owners and emailed to all applicants.
 Information was also delivered to each site, either hand-delivered or posted. Notice attached. (Exhibit C)

RV Code Enforcement activity for the reporting period (Dec 22nd – Feb 2nd) (Exhibit B):

- Occupied sites without TUPs 36
- Occupied sites with TUP Violations 1
- Compliance gained/RV cases closed 11
 - o 6 RVs removed
 - 5 Violations resolved (3 building permit issued)
- Civil Abatement Cases have been forwarded to Town Attorney 43. Twenty-five cases have been resolved, and 18 remain eligible for action.

The Community Enhancement Outreach Team, consisting of Fire Prevention, Police, Housing, Disaster Case Managers (DCMs), and Code Enforcement staff, visited 25 RV sites. The team contacted 21 community members in January:

- 7 were tenants and did not own property
- o 14 owner-occupied
- o 0 purchased the property post-Camp Fire
- o 9 supplied contact information to DCM staff

Other Code Enforcement Items:

- Abandoned Vehicle Authority abatements 11
 - Nine vehicles voluntarily abated
 - Two vehicles Towed
- Complaints regarding waste and refuse, zoning, building without a permit, camping, fire hazards, vehicles, vending, no garbage service, grading, etc.

Fire Prevention is built upon the philosophy of three main objectives: Education, Engineering, and Enforcement. Fire Prevention is vital in the community and our continued economic development. Our defensible space and hazardous fuel management ordinance require property owners to keep their parcels fire-safe, whether they live in Town or not. The Fire Prevention staff performs weed abatement inspections on 11,100 parcels within our community.

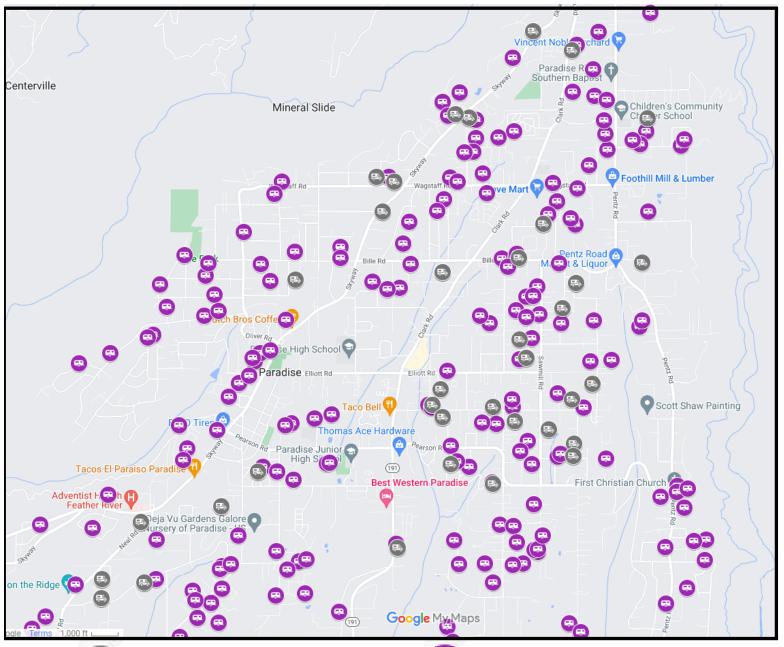
Beginning April 1st, 2022, the Town started requiring property title transfers to obtain a Certificate of Compliance with our Defensible Space regulations. During January:

- Clearance requests received 67
- First inspection compliance rate 64%
- Certificates issued 54
- Land Surveyor's Certifications on file 17

The following is the number of town-wide Defensible Space Program inspections completed as of 2/22/2023:

- Compliant 7,733 (approx. 70%)
- Non-compliant 3,119 (not including active code enforcement cases)
- Code Enforcement Referrals for citation 237 Active Code Cases
 - o 17 Commercial parcels, 220 Residential parcels

EXHIBIT A TUPs under ORD 612 1/31/2023





RV TUP STORAGE 37



RV TUP ISSUED 219, 125 ACTUALLY OCCUPIED

EXHIBIT B TUP Violations 1/31/2023

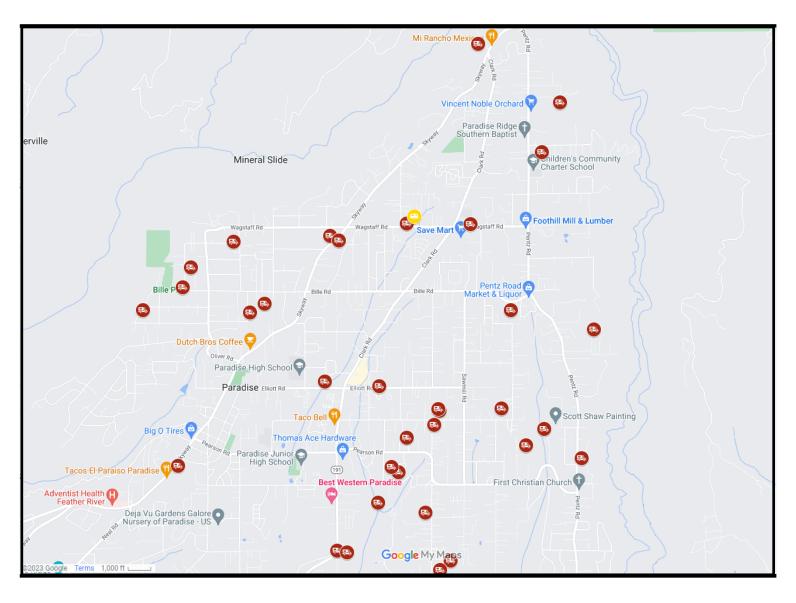






EXHIBIT C



Town of Paradise

Community Development Department 6295 Skyway Paradise, CA 95969 (530) 872-6291 x411

January 31, 2023

MAILING LABEL

IMPORTANT INFORMATION - 2nd NOTICE

RV Temporary Use Permit – Town of Paradise Urgency Ordinance No. 612

We are contacting you again because a temporary recreational vehicle (RV) permit was issued for the property referenced above following the 2018 Camp Fire. With the expiration of the Urgency Ordinance scheduled for **April 30, 2023**, we wanted to make sure each permit holder was aware of the following important dates:

- August 10, 2021 Paradise Town Council extended the deadline for the Urgency Ordinance, and the RV permits, until <u>April 30, 2023</u>.
- January 1, 2023 The new 2022 California Building Codes became effective statewide. Rebuild submittals will need to comply with the new 2022 building codes.
- April 30, 2023 The Urgency Ordinance and temporary RV permits will expire. A rebuild permit for a permanent dwelling must be issued to continue to keep an RV on the property beyond this date.

On the back of this notice are rebuilding resources if you need assistance. If you would like to speak to someone in person, our Business & Housing Division staff at Town Hall (5555 Skyway) are available Monday-Thursday to help explain different rebuilding programs that you may be eligible for. In addition, the State's ReCoverCA rebuilds grant program has representatives available at the Building Resiliency Center (6295 Skyway) on the 1st and 3rd Wednesday of every month, from 9:00 a.m. to 2:00 p.m., to meet with residents interested in their grant program.

We want to hear from you!

- If you are under contract with a builder, plans designer, or other rebuild professionals, please get in touch with us through the phone number or email below so that our records can be updated, showing your progress towards rebuilding.
- Please let us know if you have property title issues to overcome.
- Please let us know if you have not received your determination notice from PG&E or the first payment.

We understand recovery after the fire is complex, and we are here to assist in any way we can in connecting you with the tools and resources you need to transition to permanent housing. If you have any questions about this notice, please get in touch with our Planning Division staff at (530) 872-6291 ext. 411 or planning@townofparadise.com

Town of Paradise



Community Development Department 6295 Skyway Paradise, CA 95969 (530) 872-6291 x411

Rebuilding Resources

Help Central

http://helpcentral.org/ or call 211 or text your zip code to 898211

- Get connected with area resources
- If you are a Camp Fire survivor, connect with a Disaster Case Manager

USDA Section 502 Direct Loan

https://eligibility.sc.egov.usda.gov/ (530) 534-0112

- Income-limits apply
- Value-limits apply
- Available to former renters or homeowners

CalVet

https://www.calvet.ca.gov/HomeLoans

or 866-653-2510

- Available to veterans
- No minimum credit scores
- No income limits
- Available to former renters or homeowners

Town of Paradise First-Time Home Buyer Program

https://www.townofparadise.com/housing/page/firs t-time-home-buyer-program

- Down payment assistance to purchase a standing home in Paradise
- Income-limits apply
- Value-limits apply
- Available to former renters or homeowners

ReCoverCA

https://www.hcd.ca.gov/grants-andfunding/recoverca

- Federal grants for rebuild
- Available to former homeowners
- Income-limits apply

Town of Paradise Owner-Occupied Rehabilitation Loan

https://www.townofparadise.com/housing/page/owner-occupied-housing-rehabilitation-and-reconstruction

- Up to \$150,000, deferred loan, for rebuilding or repairing a home in Paradise
- Income-limits apply
- Value-limits apply
- Available to homeowners (must have been on the title at the time of the fire)

Rebuild Paradise Foundation

https://www.rebuildparadise.org/

- Grants to reimburse costs for a survey, architecture/engineering fees, water expenses
- Grants up to \$7,500 to repair or replace septic
- Income-limits apply
- Available to homeowners and former renters in Paradise
- Pre-approved building plans

Community Housing Improvement Program (CHIP)

- https://chiphousing.org/ or call (530)891-6931
- Self-help rebuild program and the waiting list for Paradise Community Village apartments

Habitat For Humanity

https://www.buttehabitat.org/

(530) 332-0821 or info@buttehabitat.org

 Self-help build program, available to former homeowners and people who were renting



Town of Paradise

Council Agenda Summary

Date: February 14, 2023

Agenda Item: 1(h)

ORIGINATED BY: Kate Anderson, Housing Program Manager

REVIEWED BY: Kevin Phillips, Town Manager

SUBJECT: Housing Recovery Update

LONG TERM No

RECOVERY PLAN:

COUNCIL ACTION REQUESTED:

1. None

Background:

This report provide the Town Council with an update of Housing activities. A summary of the programs, with overall interest and change from the last month, follows.

Analysis:

We have 29.3% (+0.2) of our pre-disaster housing stock to-date (1,377 surviving units + 2,143 new CofOs to-date [+35 from last month] = 3,320 habitable dwellings / 12,015 housing units before the Camp Fire). An additional 800 (+11) permits have been issued but have not received their CofO yet.

Town of Paradise Owner-Occupied Rehabilitation/Reconstruction Program (\$21 million)

- This program helps homeowners rehabilitate or reconstruct their home.
- To-date 28 (+1) homes rebuilt, 22 (-1) under construction and 36 (-3) in the application process.

<u>State of California/ReCoverCA: Owner-Occupied Rehabilitation/Reconstruction Program (\$47 million across state)</u>

- Grants of up to \$500,000 for property owners.
- To-date 5 (+0) home rebuilt, 9 (+0) permits issued, 2 (+0) have been submitted for plan review, 1,232 (+0) surveys received.

Town of Paradise First-Time Homebuyer Program (\$2 million)

- Helping to make home ownership more affordable by providing assistance toward the purchase price and closing costs of an owner-occupied, affordable housing unit.
- Working with Habitat and CHIP to accept land for self-help affordable homeownership.
- To-date 12 (+4) homes purchased and 32 (-7) applications in process. Lots of interest from local lenders and realtors.

Town of Paradise Septic Grant Program (\$570,000)

- Grants up to \$17,000 to assist Camp Fire survivors to repair or replace septic systems damaged or destroyed during the Camp Fire or subsequent clean-up efforts.
- To-date 29 (+2), applications in process, 7 (+1) applications approved, 13 (+0) completed.

CDBG-DR Multifamily Rental Housing Program (\$55 million)

- Goal is to create affordable rental housing
- Large projects (8+ units): 8 project received totaling 368 units and \$64,377,157 requested (oversubscribed); 7 projects will be funded.

HOME Infill New Construction (\$700,000)

- Create affordable housing for first-time homebuyers.
- Working with North Valley Housing Trust to accept land for program.
- HCD has let us know that we received the award but this program is still suspended.

<u>CDBG (2022 Annual Allocation: \$107,537 + Prior unspent awards: \$548,325.35 + Program Income: \$126,956.67)</u>

- Timeliness issue continues; a minimum of \$621,513.52 must be spent by May 1, 2023.
 - Skyway sidewalk project = \$600,000 to be completed by March
 - Property acquisition for affordable homeownership = \$135,771 to be purchased by April
 - o Public services (B&GC, Meal on Wheels and PRPD) = \$12,098.25 by April
 - Program administration = \$16,130.25 by April
- CV funds (separate from above) ear-marked for Economic Development = \$208,244 awarded, of which \$166,595.20 must be spent.

Financial Impact:

None.



TOWN COUNCIL Meeting Minutes

6:00 PM - January 10, 2023

1. OPENING

The Regular meeting of the Paradise Town Council was called to order by Mayor Bolin at 6:00 p.m. in the Town Council Chamber located at 5555 Skyway, Paradise, California who led the Pledge of Allegiance to the Flag of the United States of America. An invocation was offered by Council Member Culleton.

COUNCIL MEMBERS PRESENT: Steve Crowder, Steve "Woody" Culleton, Rose Tryon and Greg Bolin, Mayor

COUNCIL MEMBERS ABSENT: Ron Lassonde

STAFF PRESENT: Town Manager Kevin Phillips, Town Attorney Scott E. Huber, Town Clerk/Elections Official Dina Volenski, Finance Director/Town Treasurer Ross Gilb, Information Systems Director Luis Marquez, Public Works Director/Town Engineer Marc Mattox, Community Development Director Tony Lindsey, Recovery and Economic Development Director Colette Curtis, Business and Housing Manager Kate Anderson, Recovery and Economic Development Project Manager Brian Solecki, Police Chief Eric Reinbold, and Fire Chief Patrick Purvis.

Mayor Bolin stated that in order for the Council to discuss and make the recommendation of declaring a Local Emergency within the Town of Paradise, as a result of the recent winter storms, the item must be formally added to the agenda. It takes two thirds vote to add the item to the agenda, or if less than two thirds are present a unanimous vote of those present.

As such, Council is requested to take the following actions:

Pursuant to Government Code Section 54954.2(b)(2) the Town Council finds that there is a need to take immediate action and that the need came to the attention of the Town after the posting of the agenda concerning the following item:

1(a)1. 1. Consider declaring the existence of a Local Emergency within the Town of Paradise as a result of the recent storms; and, 2. Adopt Resolution No. 2023-03, "A Resolution of the Town Council of the Town of Paradise Proclaiming the Existence of a Local Emergency."

Motion by Tryon, seconded by Crowder, the Town Council finds that there is a need to take immediate action and that the need came to the attention of the Town after the posting of the agenda and added Agenda Item 1(a)1 to the agenda. Roll call vote was unanimous with Lassonde absent and not voting.

Motion by Tryon, seconded by Culleton, 1. Declared the existence of a Local Emergency within the Town of Paradise as a result of the recent storms; and, 2. Adopted Resolution No. 2023-03, "A Resolution of the Town Council of the Town of Paradise Proclaiming the Existence of a Local Emergency." Roll call vote was unanimous with Lassonde absent and not voting. (420-50-054)

1a. Mayor Bolin presented the 2022 Recognitions for Employee Service to the Town of Paradise. (630-20-022)

15 Years

Kate Anderson - Business and Housing Services Shirley Kamm - Animal Control – (Not present) Eric Reinbold - Police Department

5 Years

Hunter Carmassi - Engineering Department - (Not present)

1b. Camp Fire Recovery Updates - Written reports are included in the agenda packet. (110-60-061)

Colette Curtis, Recovery and Economic Development Director - Recovery projects, Advocacy, Economic Recovery and Development, Communications and Emergency Operations.

Marc Mattox, Public Works Director/Town Engineer - Infrastructure and Sewer Update.

Tony Lindsey, CDD-Building and Code Enforcement - Code Enforcement Update

Kate Anderson, Business and Housing Manager - Business and Housing Update

2. CONSENT CALENDAR

MOTION by Crowder, seconded by Culleton, approved consent calendar items 2a through 2b. Roll call vote was unanimous with Lassonde absent and not voting.

- 2a. Approved the Special and Regular minutes of the December 13, 2022, Town Council meeting.
- 2b. Approved December 2022 Cash Disbursements in the amount of \$3,684,830.18. (310-10-034)

3. ITEMS REMOVED FROM CONSENT CALENDAR - None

4. PUBLIC COMMUNICATION

1. Ward Habriel commented on recipients of the weed abatement letters and Fire Station 83.

- 2. Jon Remalia commented on Public Works' diligence and good work throughout the storms. He also commented on the Devil Mountain Brigade's exclusion from the Gold Nugget Day Parade.
- 3. Carrie Max commented on the end of the RV Urgency Ordinance.

5. PUBLIC HEARINGS - None

6. COUNCIL CONSIDERATION

- 6a. Police Chief Reinbold provided an overview of the proposed MOU with Paradise Unified School District to implement and support a School Resource Officer position.
 - 1. Mimi Brown, a counselor for PUSD, spoke in favor of this item.
 - Melissa Brown, a Paradise High School alumni, shared an experience of being attacked in the bathroom while she was attending Paradise High School and spoke in favor of this item.

MOTION by Culleton, seconded by Crowder Adopted Resolution No. 2023-01, "A Resolution of The Town Council of The Town of Paradise Making Findings Concerning Executing an MOU with the Paradise Unified School District to Implement and Support a School Resource Officer Position." Roll call vote was unanimous with Lassonde absent and not voting. (480-60-014, 510-20-369)

- 6b. Town Manager Phillips and Town Attorney Scott Huber presented on the Town owned property located at 5560 Berry Creek Drive that was purchased in 2000 with DCBG funding for community park usage. A plan was previously established to create Berry Creek Park, however, in 2002 Town Council approved renaming Berry Creek Park to Larry Estes Memorial Park and naming the playing field Ralph Dorville Field. Paradise Little League's has inquired about the use of the property.
 - Council provided direction to staff to bring the dialogue to PRPD and Paradise Little League to determine if they were interested in collaborating on this property and consider discussing a lease for joint use.
- 6c. Public Works Director/Town Engineer Marc Mattox provided an overview of the On-System Roadway Rehabilitation Pearson (Phase2) project.
 - 1. Jon Remalia asked whether the Town could require the contractor to bore the pipe through rather than disturbing the surface.

MOTION by Culleton, seconded by Tryon 1. Adopted Resolution No. 2023-02, "A Resolution of the Town Council of the Town of Paradise Awarding Contract No. 7303.2.CON, On-System Roadway Rehabilitation – Pearson (Phase 2) to Baldwin Contracting Company, Inc. dba Knife River Construction in the amount of their base bid; and, 2. Authorized the Town Manager to execute an agreement with Baldwin Contracting Company, Inc. dba Knife River Construction in the amount of their base bid plus additive

bid #1 relating to Contract No. 7303.2.CON and to approved contingency expenditures not exceeding 10%. Roll call vote was unanimous with Lassonde absent and not voting. (950-40-054, 510-20-368)

- 6d. Town Council discussed clarifying whether the appointed position for the Butte County and Vector Control District board should be a two or four-year appointment.
 - 1. Melissa Schuster provided a report from the Butte County Mosquito and Vector Control District board where she is a Council appointed representative.

MOTION by Crowder, seconded by Culleton, approved the Butte County Mosquito and Vector Control District Board appointment as a four-year term. Roll call vote was unanimous with Lassonde absent and not voting. (120-10-010)

- 6e. Town Attorney Scott Huber presented on the proposed ordinance relating to abatement warrants, injunctions and Civil Penalties. Mr. Huber clarified that this ordinance would be used as an additional tool of last resort and that it is possible it will not apply to occupied dwellings.
 - 1. Ward Habriel commented on this item.

MOTION by Culleton, seconded by Crowder, waived second reading of the entire Town Ordinance No. 623 and approved reading by title only; and, adopted Town Ordinance No. 623, "An Ordinance Amending Paradise Municipal Code Section 8.04.020.1 Relating to Abatement Warrants, Injunctions and Civil Penalties." Roll call vote was unanimous with Lassonde absent and not voting. (540-16-192)

7. COUNCIL INITIATED ITEMS AND REPORTS

- 7a1. Council Member Culleton presented a proposal to create an Art Committee to promote the Town of Paradise as an art community destination.
 - 1. Melissa Schuster spoke in favor of this item.
 - 2. Mimi Brown spoke in favor of this item.
 - 3. Mark Thorp spoke in favor of this item.
 - 4. Kathy Dysert spoke in favor of this item.
 - 5. Melissa Brown spoke in favor of this item.

Council provided staff with direction to bring back an outline of parameters to establish an Art Committee.

7a2. Discuss enforcement of professional landscapers blowing and leaving the leaves in the street (BOLIN) – This item was tabled until more information is received regarding the issue.

- 7a3. Council Member Tryon introduced the creation of a Legislative Committee to work with State and Federal Advocates. Town Council provided direction to staff to bring back an outline of parameters for a Legislative Committee.
- 7b. Council reports on committee representation:

Vice Mayor Tryon attended the Solid Waste Management meeting and reported that the green waste yard will continue on Fridays and Saturdays.

Council Member Culleton attended the Solid Waste Management meeting and reported the Consortium of Care Committee meetings have been postponed.

Council Member Crowder attended the Board of Realtors meeting and the swearing-in of Animal Control Supervisor Mollie St John.

Mayor Bolin attended the swearing-in of Animal Control Supervisor Mollie St John and reported that LAFCo was cancelled this month.

7c. Future Agenda Items - None

8. STAFF COMMUNICATION

8a. Town Manager Phillips reported that the Town received rebuild applications from 7th Day Adventist Church, and the Calvary Baptist Church; Rental Guys has applied for building permits for upper Skyway; Three (3) affordable housing projects are in plan review; the EV Parking Stations are in plan check; IBHS will present as a guest speaker at the Building Stakeholders Meeting on February 1st and reported an increase in single-family homes and multi-family home applications for the month of December.

9. CLOSED SESSION - None

10. ADJOURNMENT

Mayor Bolin adjourned the meeting at 8:02 p.m	1.
Date approved:	
Ву:	Attest:
Greg Bolin, Mayor	Dina Volenski, CMC, Town Clerk



MINUTES PARADISE TOWN COUNCIL SPECIAL MEETING – 3:00 PM – January 17, 2023

1. OPENING

The Special meeting of the Paradise Town Council was called to order by Mayor Bolin at 3:00 p.m. in the Council Chambers located at 5555 Skyway, Paradise, California who led the Pledge of Allegiance to the Flag of the United States of America.

COUNCIL MEMBERS PRESENT: Steve Crowder, Steve "Woody" Culleton, Ron Lassonde, Rose Tryon and Greg Bolin, Mayor.

COUNCIL MEMBERS ABSENT: None

STAFF PRESENT: Town Manager Kevin Phillips, Town Clerk/Elections Official Dina Volenski, Town Attorney Scott E. Huber (via Teams), Recovery & Economic Development Director Colette Curtis, Finance Director/Town Treasurer Ross Gilb, and Information Systems Director Luis Marquez.

Vice Mayor Tryon requested that agenda item 3a be moved to the top of the agenda. All Town Council concurred to move item 3a to the top of the agenda.

3. COUNCIL INITIATED

3a. Vice Mayor Tryon presented this item asking that all Town Council sign a letter showing support for Congressman LaMalfa and Thompson's bill to exclude Fire Victim's settlement funds from federal taxes.

MOTION by Culleton, seconded by Tryon, approved a letter of support from the Town Council supporting Congressman LaMalfa and Thompson's bill to exclude Fire Victim's settlements from federal taxes. Roll call vote was unanimous. (550-30-001, 180-30-100)

2. COUNCIL CONSIDERATION

- 2a. Council Member Crowder provided an overview of the purpose of the Washington D.C. trip to advocate on the bill introduced by Congressman LaMalfa and Thompson to exclude Fire Victims settlement funds from Federal taxes. Town of Paradise federal lobbyist Kristi More answered questions about the necessity of visiting DC in both February and March and strategies regarding the best timing on advocating these issues to Congress.
 - 1. Jon Remalia spoke in favor of this item.

MOTION by Tryon, seconded by Culleton, approved a trip to be taken by Council Member Steve Crowder to Washington DC to advocate for HR 176 (tax burden relief for wildfire claimants) and a budget adjustment, not to exceed \$1,500, to fund the trip from the Town Council budget with input from Vice Mayor Tryon. (Receipts to be provided upon return for reimbursement) Roll call vote was unanimous. (340-40-016)

4. ADJOURNMENT

Greg Bolin, Mayor	Dina Volenski, CMC, Town Clerk
By:	Attest:
Date approved:	
Mayor Bolin adjourned the Council meeti	ng at 3:48 p.m.

CASH DISBURSEMENTS REPORT

FOR THE PERIOD OF January 1, 2023 - January 31, 2023



CASH DISBURSEMENTS REPORT January 1, 2023 - January 31, 2023

Check Date	Pay Period End	Description	Amount	Total
1/6/2023	1/1/2023	Net Payroll - Direct Deposits and Checks	\$ 203,418.88	
1/20/2023	1/15/2023	Net Payroll - Direct Deposits and Checks	218,223.89	-
				\$ 421,642.77
Accounts Payable				
	Payroll Vendors:	Taxes, PERS, Dues, Insurance, Etc.	390,654.58	
	Operations Vendo	ors: Supplies, Contracts, Utilities, Etc.	\$ 2,384,115.28	-
		TOTAL CASH DISBURSEMENTS ACCOUNTS PAYABLE		2,774,769.86
		GRAND TOTAL CASH DISBURSEMENTS		\$ 3,196,412.63
	APPROVED BY:	Kevin Phillips, Town Manager	-	
	APPROVED BY:		_	
		Ross Gilb, Finance Director / Town Treasurer		

Payment Register

From Payment Date: 1/1/2023 - To Payment Date: 1/31/2023

				Reconciled/			Transaction	Reconciled	
Number	Date	Status	Void Reason	Voided Date	Source	Payee Name	Amount	Amount	Difference
	k TOP AP Check	ing							
Check		_							
82477	01/04/2023	Open			Accounts Payable	De Lage Landen Public Finance LLC	\$781.25		
82478	01/04/2023	Open			Accounts Payable	ENTERPRISE FM TRUST	\$1,073.32		
82479	01/04/2023	Open			Accounts Payable	SBA Monarch Towers III LLC	\$166.50		
82480	01/11/2023	Open			Accounts Payable	ICMA 457 - MissionSquare	\$2,952.08		
82481	01/11/2023	Open			Accounts Payable	STATE DISBURSEMENT UNIT	\$194.76		
82482	01/12/2023	Open			Accounts Payable	Adams Ashby Group, Inc.	\$53,325.00		
82483	01/12/2023	Open			Accounts Payable	ADVANCED DOCUMENT CONCEPTS	\$18.89		
82484	01/12/2023	Open			Accounts Payable	Akin, David	\$345.00		
82485	01/12/2023	Open			Accounts Payable	All-American Construction, Inc.	\$159,463.20		
82486	01/12/2023	Open			Accounts Payable	Allen Gill Construction, Inc.	\$197,437.90		
82487	01/12/2023	Open			Accounts Payable	ANIMAL HOSPITAL/VETMOBILE	\$75.00		
82488	01/12/2023	Open			Accounts Payable	Archuleta, Derek, S	\$396.75		
82489	01/12/2023	Open			Accounts Payable	AT&T MOBILITY	\$79.54		
82490	01/12/2023	Open			Accounts Payable	AT&T MOBILITY	\$176.55		
82491	01/12/2023	Open			Accounts Payable	Batteries Plus Bulbs	\$193.81		
82492	01/12/2023	Open			Accounts Payable	Big O Tires	\$100.00		
82493	01/12/2023	Open			Accounts Payable	Biometrics4ALL, Inc	\$1,379.76		
82494	01/12/2023	Open			Accounts Payable	Blue Flamingo Marketing Advocates	\$4,345.56		
82495	01/12/2023	Open			Accounts Payable	Bunch Electrical	\$2,930.00		
82496	01/12/2023	Open			Accounts Payable	BUTTE CO RECORDER	\$344.00		
82497	01/12/2023	Open			Accounts Payable	BUTTE COUNTY ELECTIONS DIVISION	\$12,907.63		
82498	01/12/2023	Open			Accounts Payable	California Assoc of Sanitation Agencies	\$950.00		
82499	01/12/2023	Open			Accounts Payable	CALIFORNIA BUILDING STANDARDS COMMISSION	\$901.80		
82500	01/12/2023	Open			Accounts Payable	CALIFORNIA STATE DEPARTMENT OF CONSERVATION	\$3,061.58		
82501	01/12/2023	Open			Accounts Payable	Carmassi, Hunter, C	\$121.25		
82502	01/12/2023	Open			Accounts Payable	COMCAST CABLE	\$401.40		
82503	01/12/2023	Open			Accounts Payable	COMCAST CABLE	\$416.40		
82504	01/12/2023	Open			Accounts Payable	COMCAST CABLE	\$416.40		
82505	01/12/2023	Open			Accounts Payable	COMCAST CABLE	\$148.40		
82506	01/12/2023	Open			Accounts Payable	Creative Composition Inc	\$81.32		
82507	01/12/2023	Open			Accounts Payable	DOBRICH & SONS SEPTIC	\$1,092.50		
82508	01/12/2023	Open			Accounts Payable	Eidhammer, Trenton	\$345.00		
82509	01/12/2023	Open			Accounts Payable	Elk Grove Auto / Winner Chevrolet	\$63,955.69		
82510	01/12/2023	Open			Accounts Payable	Escheman Construction Company	\$101,394.58		
82511	01/12/2023	Open			Accounts Payable	EXECUTIVE HOMES	\$11,000.00		
82512	01/12/2023	Open			Accounts Payable	FIDELITY NATIONAL TITLE COMPANY - CHICO	\$100,000.00		
82513	01/12/2023	Open			Accounts Payable	Fisher, Joshua	\$86.00		
82514	01/12/2023	Open			Accounts Payable	FRANKLIN CONSTRUCTION COMPANY	\$1,129.02		
82515	01/12/2023	Open			Accounts Payable	Golden State Emergency Vehicle Service, Inc.	\$194.13		
82516	01/12/2023	Open			Accounts Payable	GOVERNOR'S OFFICE OF EMERGENCY SERVICES	\$92.00		
82517	01/12/2023	Open			Accounts Payable	GREEN RIDGE LANDSCAPING	\$5,296.00		
82518	01/12/2023	Open			Accounts Payable	Guardian Public Safety Background Investigations	\$1,450.00		
82519	01/12/2023	Open			Accounts Payable	I.M.P.A.C. PAYMENTS IMPAC GOV SVCS/US BANCORP	\$10,191.03		
82520	01/12/2023	Open			Accounts Payable	J.J.R. Enterprises Inc	\$1,060.87		
82521	01/12/2023	Open			Accounts Payable	James or Lavenia Riotto	\$400.00		
82522	01/12/2023	Open			Accounts Payable	JC NELSON SUPPLY COMPANY	\$323.92		
82523	01/12/2023	Open			Accounts Payable	Jennifer Arbuckle	\$6,675.00		
22020	J .,	Opon			. toooanto i ayabie		ψ0,070.00		

		.		Reconciled/			Transaction	Reconciled	
Number AD US Por	Date nk TOP AP Check	Status	Void Reason	Voided Date	Source	Payee Name	Amount	Amount	Difference
Check	IK TOF AF CHECK	arry							
82524	01/12/2023	Open			Accounts Payable	JOHNNY ON THE SPOT PORTABLES	\$186.45		
82525	01/12/2023	Open			Accounts Payable	Kevin Sharrah Designs	\$3,667.05		
82526	01/12/2023	Open			Accounts Payable	KNIFE RIVER CONSTRUCTION	\$333,856.13		
82527	01/12/2023	Open			Accounts Payable	KNIFE RIVER CONSTRUCTION	\$98,274.69		
82528	01/12/2023	Open			Accounts Payable	Lash's Glass	\$6,725.40		
82529	01/12/2023	Open			Accounts Payable	LIFE ASSIST INC	\$463.22		
82530	01/12/2023	Open			Accounts Payable	LOCATE PLUS CORPORATION	\$60.50		
82531	01/12/2023	Open			Accounts Payable	Look Ahead Veterinary Services	\$457.06		
82532	01/12/2023	Open			Accounts Payable	Mark Thomas & Company Inc	\$8,975.44		
82533	01/12/2023	Open			Accounts Payable	Mennonite Disaster Service	\$7,713.00		
82534	01/12/2023	Open			Accounts Payable	Meyers Police K-9 Training, LLC	\$4,500.00		
82535	01/12/2023	Open			Accounts Payable	Mt Shasta Spring Water Co., Inc	\$388.32		
82536	01/12/2023	Open			Accounts Payable	MUNIMETRIX SYSTEMS CORP	\$39.99		
82537	01/12/2023	Open			Accounts Payable	NCCSIF TREASURER	\$63,211.75		
82538	01/12/2023	Open			Accounts Payable	North State Tire Co. Inc.	\$522.95		
82539	01/12/2023	Open			Accounts Payable	NORTHERN RECYCLING & WASTE SERVICES, INC.	\$522.95 \$946.86		
82540	01/12/2023	Open			Accounts Payable	NORTHGATE PETROLEUM CO	\$9,022.79		
82541	01/12/2023	Open			Accounts Payable	NV5, Inc.	\$9,022.79 \$11,566.13		
82542	01/12/2023	Open			Accounts Payable	NV5, Inc.	\$20,225.31		
82543	01/12/2023	Open			Accounts Payable Accounts Payable	NV5, Inc.	\$6,082.31		
82544	01/12/2023					O'REILLY AUTO PARTS	\$422.94		
82545	01/12/2023	Open Open			Accounts Payable Accounts Payable	OFFICE DEPOT ACCT#36233169	\$422.94 \$1,029.44		
82546	01/12/2023						\$1,302.04		
82547		Open			Accounts Payable	PACIFIC GAS & ELECTRIC PARADISE POST	\$1,302.04 \$825.45		
82548	01/12/2023 01/12/2023	Open			Accounts Payable Accounts Payable	PETTY CASH, CHRISTINA SHOEMAKER	\$8.74		
82549	01/12/2023	Open Open			Accounts Payable	PICKERING, ROBERT	\$6.74 \$75.00		
82550	01/12/2023	Open			Accounts Payable	Psomas	\$75.00 \$16,965.57		
82551	01/12/2023	Open			Accounts Payable Accounts Payable	Psomas	\$3,070.73		
82552	01/12/2023	Open			Accounts Payable	Psomas	\$3,540.97		
82553	01/12/2023					Psomas	\$24,920.52		
82554	01/12/2023	Open Open			Accounts Payable Accounts Payable	Psomas	\$24,920.52 \$92,178.37		
82555	01/12/2023				Accounts Payable	Psomas	\$92,176.37 \$54,552.14		
82556	01/12/2023	Open Open			Accounts Payable	R B SPENCER INC	\$10,655.00		
82557	01/12/2023	Open			Accounts Payable	RE CONSTRUCTION	\$15,030.00		
82558	01/12/2023	Open			Accounts Payable	RENTAL GUYS - CHICO	\$107.25		
82559	01/12/2023	Open			Accounts Payable	Riebes Auto Parts- Motorpool	\$283.41		
82560	01/12/2023	Open			Accounts Payable	Sigler Pest Control	\$50.00		
82561	01/12/2023	Open			Accounts Payable	SKYWAY TOOL CENTER	\$635.79		
82562	01/12/2023	Open			Accounts Payable	SONSRAY MACHINERY LLC	\$106,270.38		
82563	01/12/2023	Open			Accounts Payable	Specialized Pavement Marking, LLC	\$73,611.71		
82564	01/12/2023	Open			Accounts Payable	Spherion Staffing	\$1,892.63		
82565	01/12/2023	Open			Accounts Payable Accounts Payable	STERICYCLE, INC.	\$1,692.03 \$492.12		
82566	01/12/2023	Open			Accounts Payable	Stratti	\$9,545.16		
82567	01/12/2023	Open			Accounts Payable	Stratton, Brock	\$9,545.10 \$548.50		
82568	01/12/2023	Open			Accounts Payable Accounts Payable	T MOBILE USA, INC.	\$1,370.97		
82569	01/12/2023	Open			Accounts Payable	Tahoe Pure Water Co.	\$1,370.97		
82570	01/12/2023	Open			Accounts Payable	THOMAS ACE HARDWARE - ENG. DEPT.	\$35.00		
02010	0111212023	Open			, wooding i ayable	THOMAS ASE HANDWAILE - LING, DELT.	\$333.9 <i>1</i>		

Manada	B-4-	04-4	V-14 D	Reconciled/	_		Transaction	Reconciled	D'#*
Number	Date nk TOP AP Check	Status	Void Reason	Voided Date	Source	Payee Name	Amount	Amount	Difference
Check	IK TOT AT CHECK	ung							
82571	01/12/2023	Open			Accounts Payable	THOMAS ACE HARDWARE - FIRE DEPT.	\$58.31		
82572	01/12/2023	Open			Accounts Payable	THOMAS ACE HARDWARE - MOTORPOOL	\$152.43		
82573	01/12/2023	Open			Accounts Payable	THOMAS ACE HARDWARE - POLICE DEPT.	\$28.78		
82574	01/12/2023	Open			Accounts Payable	TRUEPOINT SOLUTIONS, LLC	\$1,237.50		
82575	01/12/2023	Open			Accounts Payable	Tuck, Kevin	\$74.00		
82576	01/12/2023	Open			Accounts Payable	VERIZON WIRELESS	\$1,204.66		
82577	01/12/2023	Open			Accounts Payable	Walters, Perry	\$59.00		
82578	01/12/2023	Open			Accounts Payable	White Glove Cleaning Svc Inc, Theresa Contreras	\$5,610.00		
82579	01/12/2023	Open			Accounts Payable	WILKEY, JOHN	\$203.50		
82580	01/12/2023	Open			Accounts Payable	WITTMEIER AUTO CENTER	\$27.89		
82581	01/12/2023	Open			Accounts Payable	Wood, Montana, S	\$396.75		
82582	01/12/2023	Open			Accounts Payable	Wood Rodgers, Inc.	\$126.60		
82583	01/12/2023	Open			Accounts Payable	Aflac	\$57.98		
82584	01/12/2023	Open			Accounts Payable	Met Life	\$11,528.15		
82585	01/12/2023	Open			Accounts Payable	OPERATING ENGINEERS	\$1,003.00		
82586	01/12/2023	Open			Accounts Payable	PARADISE POLICE OFFICERS ASSOCIATION	\$1,820.96		
82587	01/12/2023	Open			Accounts Payable	SUN LIFE INSURANCE	\$6,927.63		
82588	01/12/2023	Open			Accounts Payable	SUPERIOR VISION SVC NGLIC	\$858.47		
82589	01/12/2023	Open			Accounts Payable	TOP CONFIDENTIAL MID MGMT ASSOCIATION	\$80.00		
82590	01/24/2023	Open			Accounts Payable	ICMA 457 - MissionSquare	\$2,952.08		
82591	01/24/2023	Open			Accounts Payable	STATE DISBURSEMENT UNIT	\$194.76		
82592	01/26/2023	Open			Accounts Payable	4LEAF, Inc	\$28,545.00		
82593	01/26/2023	Open			Accounts Payable	ACCESS INFORMATION PROTECTED	\$263.64		
82594	01/26/2023	Open			Accounts Payable	Allen Gill Construction, Inc.	\$33,778.71		
82595	01/26/2023	Open			Accounts Payable	Asbury Environmental Services	\$452.80		
82596	01/26/2023	Open			Accounts Payable	AT&T & CALNET3 - CIRCUIT LINES	\$859.90		
82597	01/26/2023	Open			Accounts Payable	AT&T & CALNET3 - CIRCUIT LINES	\$110.79		
82598	01/26/2023	Open			Accounts Payable	AT&T MOBILITY	\$89.46		
82599	01/26/2023	Open			Accounts Payable	AT&T Wireless Services	\$2,248.13		
82600	01/26/2023	Open			Accounts Payable	AT&T/CALNET3 - REPEATER LINES	\$212.09		
82601	01/26/2023	Open			Accounts Payable	AT&T/CALNET3 - COMMUNITY PARK	\$19.61		
82602	01/26/2023	Open			Accounts Payable	AT&T/CALNET3 - Summary	\$2,212.33		
82603	01/26/2023	Open			Accounts Payable	AT&T/CALNET3 - Summary	\$24.12		
82604	01/26/2023	Open			Accounts Payable	AT&T/CALNET3 - TH/FDPD FIBER LINES	\$1,136.08		
82605	01/26/2023	Open			Accounts Payable	AWARDS COMPANY	\$158.52		
82606	01/26/2023	Open			Accounts Payable	Baker, Heavenlea	\$15.00		
82607	01/26/2023	Open			Accounts Payable	Bear Electrical Systems, Inc	\$2,900.00		
82608	01/26/2023	Open			Accounts Payable	BIDWELL TITLE & ESCROW	\$175.00		
82609	01/26/2023	Open			Accounts Payable	BIDWELL TITLE & ESCROW	\$175.00		
82610	01/26/2023	Open			Accounts Payable	Bidwell Truck & Auto	\$6,719.43		
82611	01/26/2023	Open			Accounts Payable	Big O Tires	\$155.00		
82612	01/26/2023	Open			Accounts Payable	Blue Flamingo Marketing Advocates	\$1,897.36		
82613	01/26/2023	Open			Accounts Payable	Bob Walters Jr. Construction Inc.	\$76,500.00		
82614	01/26/2023	Open			Accounts Payable	Broad & Gusman	\$4,000.00		
82615	01/26/2023	Open			Accounts Payable	Bug Smart	\$41.00		
82616	01/26/2023	Open			Accounts Payable	BUTTE CO SHERIFF'S OFFICE	\$95,765.92		
82617	01/26/2023	Open			Accounts Payable	Butte County Construction Inc	\$25,446.66		

Control Cont	Normalism	B-4-	04-4	V-14 D	Reconciled/	_		Transaction	Reconciled	D!#*
Deal 1.70 Control Cont	Number	Date	Status	Void Reason	Voided Date	Source	Payee Name	Amount	Amount	Difference
1001 0700000000 Common Montane Physical Country Count		IN TOT AT CHECK	ung							
1000000000000000000000000000000000000		01/26/2023	Open			Accounts Payable	California Building Officials (CALBO)	\$780.00		
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82838 O 1/28/2023 Open Accounts Payable Golden State Emergency Vehicle Service, Inc. \$7,845.25 82839 0 1/28/2023 Open Accounts Payable Granither Appraisals, Inc \$400.00 82840 0 1/28/2023 Open Accounts Payable Guardam Public Safety Background Investigations \$750.00 82841 0 1/28/2023 Open Accounts Payable HDR Engineering, Inc \$33,949.64 82844 0 1/28/2023 Open Accounts Payable HDR Engineering, Inc \$33,949.64 82846 0 1/28/2023 Open Accounts Payable HDR Engineering, Inc \$35,000.00 82846 0 1/28/2023 Open Accounts Payable HLP, INC J CHAMELEON SOFTWARE PRODUCTS \$15,000.00 82846 0 1/28/2023 Open Accounts Payable Hope Crisis Response Network, Inc \$35,000.00 82847 0 1/28/2023 Open Accounts Payable Hope Crisis Response Network, Inc \$35,000.00 82848 0 1/28/2023 Open Accounts Payable INTERSTATE SALES \$35,000.00 8284			-			· · · · · · · · · · · · · · · · · · ·	•			
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82841 01/28/2023 Open Accounts Payable Guardian Public Safety Background Investigations 375.00 827842 01/28/2023 Open Accounts Payable HDR Engineering, Inc 333,999.44 82843 01/28/2023 Open Accounts Payable HLP, INC / CHAMELEON SOFTWARE PRODUCTS \$18.90 82846 01/28/2023 Open Accounts Payable Hope Crisis Response Network, Inc \$20,100.00 82847 01/28/2023 Open Accounts Payable Hope Crisis Response Network, Inc \$20,100.00 82848 01/28/2023 Open Accounts Payable Hope Crisis Response Network, Inc \$20,100.00 82848 01/28/2023 Open Accounts Payable Hope Crisis Response Network, Inc \$20,100.00 82849 01/28/2023 Open Accounts Payable HIVEPACTORISTATE SALES \$397.16 82849 01/28/2023 Open Accounts Payable MITERNATIONAL INSTITUTE OF MUNICIPAL CLERKS \$30.00 82851 01/28/2023 Open Accounts Payable MITERNATIONAL MUNICIPAL CLERKS \$30.00	82639	01/26/2023	Open			Accounts Payable	Granicher Appraisals, Inc	\$400.00		
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82653 01/26/2023 Open Accounts Payable KNIFE RIVER CONSTRUCTION \$482.84 82654 01/26/2023 Open Accounts Payable KOEFRAN INDUSTRIES \$1,200.00 82655 01/26/2023 Open Accounts Payable L.N. CURTIS & SONS \$508.50 82656 01/26/2023 Open Accounts Payable LAUTZENHISER'S STATIONERY, INC. \$358.89 82657 01/26/2023 Open Accounts Payable Lindsey, Anthony \$147.79 82658 01/26/2023 Open Accounts Payable Look Ahead Veterinary Services \$607.17 82659 01/26/2023 Open Accounts Payable Mark Thomas & Company Inc \$3,433.20 82660 01/26/2023 Open Accounts Payable Meyers Police K-9 Training, LLC \$150.00 82661 01/26/2023 Open Accounts Payable Meyers Police K-9 Training, LLC \$150.00 82662 01/26/2023 Open Accounts Payable MOBILE MINI INC \$475.93 82663 01/26/2023 Open Accounts Payable<	82651	01/26/2023	Open			Accounts Payable	JOURNYX, INC.	\$1,000.00		
82654 01/26/2023 Open Accounts Payable KOEFRAN INDUSTRIES \$1,200.00 82655 01/26/2023 Open Accounts Payable L.N. CURTIS & SONS \$508.50 82656 01/26/2023 Open Accounts Payable LAUTZENHISER'S STATIONERY, INC. \$358.89 82657 01/26/2023 Open Accounts Payable Lindsey, Anthony \$147.79 82658 01/26/2023 Open Accounts Payable Look Ahead Veterinary Services \$607.17 82659 01/26/2023 Open Accounts Payable Mark Thomas & Company Inc \$3,433.20 82661 01/26/2023 Open Accounts Payable Meyers Police K-9 Training, LLC \$150.00 82662 01/26/2023 Open Accounts Payable Meyers Police K-9 Training, LLC \$150.00 82663 01/26/2023 Open Accounts Payable MOBILE MINI INC \$475.93 82663 01/26/2023 Open Accounts Payable MORGAN TREE SERVICE \$1,500.00	82652	01/26/2023	Open			Accounts Payable	KNIFE RIVER CONSTRUCTION	\$871.90		
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82657 01/26/2023 Open Accounts Payable Lindsey, Anthony \$147.79 82658 01/26/2023 Open Accounts Payable Look Ahead Veterinary Services \$607.17 82659 01/26/2023 Open Accounts Payable Mark Thomas & Company Inc \$3,433.20 82660 01/26/2023 Open Accounts Payable Mark Thomas & Company Inc \$4,488.82 82661 01/26/2023 Open Accounts Payable Meyers Police K-9 Training, LLC \$150.00 82662 01/26/2023 Open Accounts Payable MOBILE MINI INC \$475.93 82663 01/26/2023 Open Accounts Payable MORGAN TREE SERVICE \$1,500.00	82655	01/26/2023	Open			Accounts Payable	L.N. CURTIS & SONS	\$508.50		
82658 01/26/2023 Open Accounts Payable Look Ahead Veterinary Services \$607.17 82659 01/26/2023 Open Accounts Payable Mark Thomas & Company Inc \$3,433.20 82660 01/26/2023 Open Accounts Payable Mark Thomas & Company Inc \$4,488.82 82661 01/26/2023 Open Accounts Payable Meyers Police K-9 Training, LLC \$150.00 82662 01/26/2023 Open Accounts Payable MOBILE MINI INC \$475.93 82663 01/26/2023 Open Accounts Payable MORGAN TREE SERVICE \$1,500.00	82656	01/26/2023	Open			Accounts Payable	LAUTZENHISER'S STATIONERY, INC.	\$358.89		
82659 01/26/2023 Open Accounts Payable Mark Thomas & Company Inc \$3,433.20 82660 01/26/2023 Open Accounts Payable Mark Thomas & Company Inc \$4,488.82 82661 01/26/2023 Open Accounts Payable Meyers Police K-9 Training, LLC \$150.00 82662 01/26/2023 Open Accounts Payable MOBILE MINI INC \$475.93 82663 01/26/2023 Open Accounts Payable MORGAN TREE SERVICE \$1,500.00	82657	01/26/2023	Open			Accounts Payable	Lindsey, Anthony	\$147.79		
82660 01/26/2023 Open Accounts Payable Mark Thomas & Company Inc \$4,488.82 82661 01/26/2023 Open Accounts Payable Meyers Police K-9 Training, LLC \$150.00 82662 01/26/2023 Open Accounts Payable MOBILE MINI INC \$475.93 82663 01/26/2023 Open Accounts Payable MORGAN TREE SERVICE \$1,500.00	82658	01/26/2023	Open			Accounts Payable	Look Ahead Veterinary Services	\$607.17		
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8262 01/26/2023 Open Accounts Payable MOBILE MINI INC \$475.93 8263 01/26/2023 Open Accounts Payable MORGAN TREE SERVICE \$1,500.00	82660	01/26/2023	Open			Accounts Payable	Mark Thomas & Company Inc	\$4,488.82		
82663 01/26/2023 Open Accounts Payable MORGAN TREE SERVICE \$1,500.00	82661	01/26/2023	Open			Accounts Payable	Meyers Police K-9 Training, LLC	\$150.00		
, , , , , , , , , , , , , , , , , , , ,	82662	01/26/2023	Open			Accounts Payable	MOBILE MINI INC	\$475.93		
8264 01/26/2023 Open Accounts Payable Mt Shasta Spring Water Co., Inc \$94.53	82663	01/26/2023	Open			Accounts Payable	MORGAN TREE SERVICE	\$1,500.00		
	82664	01/26/2023	Open			Accounts Payable	Mt Shasta Spring Water Co., Inc	\$94.53		

Number	Date	Status	Void Reason	Reconciled/ Voided Date	Source		Payee Name		Transaction Amount	Reconciled Amount	Difference
AP - US Bar	nk TOP AP Check	ing					•				
Check											
82665	01/26/2023	Open			Accounts Paya	ble	NORTHGATE PETROLEUM CO		\$7,312.55		
82666	01/26/2023	Open			Accounts Paya	ble	NORTHSTAR		\$1,996.00		
82667	01/26/2023	Open			Accounts Paya	ble	O'REILLY AUTO PARTS		\$38.35		
82668	01/26/2023	Open			Accounts Paya	ble	OFFICE DEPOT ACCT#36233169		\$161.40		
82669	01/26/2023	Open			Accounts Paya	ble	PACIFIC GAS & ELECTRIC		\$18,096.81		
82670	01/26/2023	Open			Accounts Paya	ble	PARADISE IRRIGATION DIST		\$2,348.92		
82671	01/26/2023	Open			Accounts Paya	ble	PARADISE POST		\$142.38		
82672	01/26/2023	Open			Accounts Paya	ble	Riebes Auto Parts- Motorpool		\$728.27		
82673	01/26/2023	Open			Accounts Paya	ble	SACRAMENTO REGIONAL PUBLIC SAFETY TRAINING CTR.		\$266.00		
82674	01/26/2023	Open			Accounts Paya	ble	Servpro of South Shasta County		\$6,012.99		
82675	01/26/2023	Open			Accounts Paya	ble	Shasta Cascade Chapter ICC		\$250.00		
82676	01/26/2023	Open			Accounts Paya	ble	Shelby's Pest Control, Inc.		\$100.00		
82677	01/26/2023	Open			Accounts Paya	ble	Specialized Pavement Marking, LLC		\$21,486.66		
82678	01/26/2023	Open			Accounts Paya	ble	Spherion Staffing		\$3,659.78		
82679	01/26/2023	Open			Accounts Paya	ble	SUTTER BUTTES COMMUNICATIONS, INC.		\$5,056.53		
82680	01/26/2023	Open			Accounts Paya	ble	Tahoe Pure Water Co.		\$54.00		
82681	01/26/2023	Open			Accounts Paya	ble	THOMAS ACE HARDWARE - ENG. DEPT.		\$116.05		
82682	01/26/2023	Open			Accounts Paya	ble	THOMAS ACE HARDWARE - FIRE DEPT.		\$39.52		
82683	01/26/2023	Open			Accounts Paya	ble	THOMAS ACE HARDWARE - MOTORPOOL		\$69.81		
82684	01/26/2023	Open			Accounts Paya	ble	THOMAS ACE HARDWARE - POLICE DEPT.		\$31.27		
82685	01/26/2023	Open			Accounts Paya	ble	Tri Flame Propane		\$966.40		
82686	01/26/2023	Open			Accounts Paya	ble	TUCKER PEST CONTROL INC		\$90.00		
82687	01/26/2023	Open			Accounts Paya	ble	ULINE		\$113.62		
82688	01/26/2023	Open			Accounts Paya	ble	VERIZON WIRELESS		\$247.32		
82689	01/26/2023	Open			Accounts Paya	ble	VERIZON WIRELESS		\$342.09		
82690	01/26/2023	Open			Accounts Paya	ble	Westlake Ace Hardware		\$36.08		
82691	01/26/2023	Open			Accounts Paya	ble	WITTMEIER AUTO CENTER		\$47.87		
82692	01/26/2023	Open			Accounts Paya	ble	CHUCK PATERSON TOYOTA		\$32,637.20		
Type Check	Totals:				216 Transaction	ns			\$2,412,685.15		
<u>EFT</u>											
1381	01/05/2023	Open			Accounts Paya	ble	EMPLOYMENT DEVELOPMENT DEPARTMENT		\$9,449.36		
1382	01/05/2023	Open			Accounts Paya	ble	INTERNAL REVENUE SERVICE		\$34,019.03		
1383	01/11/2023	Open			Accounts Paya	ble	CALPERS - RETIREMENT		\$51,961.61		
1384	01/11/2023	Open			Accounts Paya	ble	ING LIFE INS & ANNUITY COMPANY		\$8,475.76		
1385	01/10/2023	Open			Accounts Paya	ble	CALPERS		\$148,501.49		
1386	01/19/2023	Open			Accounts Paya	ble	EMPLOYMENT DEVELOPMENT DEPARTMENT		\$10,772.10		
1387	01/19/2023	Open			Accounts Paya	ble	INTERNAL REVENUE SERVICE		\$37,990.49		
1388	01/24/2023	Open			Accounts Paya	ble	CALPERS - RETIREMENT		\$52,289.11		
1389	01/24/2023	Open			Accounts Paya	ble	ING LIFE INS & ANNUITY COMPANY		\$8,625.76		
Type EFT To	otals:				9 Transactions				\$362,084.71		
AP - US Bar	nk TOP AP Check	ing Totals									
				Checks	Status	Cou	unt	Transaction Amount	D	econciled Amount	
				- CIICONS	Open		16	\$2,412,685.15	N	\$0.00	
					Reconciled		0	\$2,412,065.15		\$0.00	
					Voided		0	\$0.00		\$0.00	
					Stopped		0	\$0.00		\$0.00	
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Number	Date	Status	Void Reason	Reconciled/ Voided Date	Source	Payee Name		Transaction Amount	Reconciled Amount	Difference
AP - US Ban	nk TOP AP Chec	king								
Check										
					Total	216	\$2,412,685.15		\$0.00	
				EFTs	Status	Count	Transaction Amount	Re	conciled Amount	
					Open	9	\$362,084.71		\$0.00	
					Reconciled	0	\$0.00		\$0.00	
					Voided	0	\$0.00		\$0.00	
					Total	9	\$362,084.71		\$0.00	
				All	Status	Count	Transaction Amount	Re	conciled Amount	
				-	Open	225	\$2,774,769.86		\$0.00	
					Reconciled	0	\$0.00		\$0.00	
					Voided	0	\$0.00		\$0.00	
					Stopped	0	\$0.00		\$0.00	
					Total	225	\$2,774,769.86		\$0.00	

Town of Paradise



Council Agenda Summary

Agenda Item: 2(c)

February 14, 2023

ORIGINATED BY: Rick Manson, Paradise Fire Department

Battalion Chief

REVIEWED BY: Kevin Phillips, Town Manager

SUBJECT: Deceleration of Certain Town Equipment from the Fire

Department to be Surplus

LONG TERM No.

RECOVERY PLAN:

COUNCIL ACTION REQUESTED:

1. Declare the attached itemized list of equipment from the Fire Department as surplus property; and,

2. Adopt Resolution No. 2023- , "A Resolution of the Town Council of the Town of Paradise Declaring Certain Property to be Surplus and Authorizing Disposal Thereof".

Background:

The Paradise Fire Department has continued to replace equipment that has reached the end of its service life or has become outdated due to advances in technology. Practice has been that the Town retain replaced equipment to be used as a backup in the event of an equipment failure. The Fire Department is now in a position where the reserves are sufficient to support the Department's mission and the surplus list is recommended for disposal.

Analysis:

The Fire Department is in possession of the items on the attached itemized list, Exhibit "A", and request authorization for disposal.

Financial Impact:

Disposal of the declared items retain no value and will have no impact on the General Fund.

Exhibit "A" Paradise Fire Department Surplus Items:

- (1) Garmin Nuvi GPS Unit- No Serial or Town #
- (2) Go Pro Camera w/accessories- No Serial or Town #
- (7) Kenwood TK-272 Radios B3900282 70600540 30500961 40201251 40201014 70600539 70600538
- (1) Kenwood TK-272 Radio Charging Base
- (1) Porta Count Plus Gas Calibrator 080202006
- (1) Industrial Scientific Gas Calibrator 11032xy003
- (1) Minolta Maxxum 5xi Camera 17207950
- (1) Qualcomm Global Star SAT Phone N107M35LL
- (2) Motorola Programmer for Minitor 5 Radio Pagers
- (20) Motorola Minitor 5 Radio Pagers

136WJW6813 136WHN2573 136WGS1190 136WHN2556 136WKQ4713 136WJW6809 136WKQ4716 136WHJ7505 136WKQ4714 136WJG4249 136WHA6117 136WJW6814 136WHN2557 136WGS9192 136WHN2552 136WJY4366 136WJY4362 136WJY4361 136WJY4363 0091

- (15) Motorola Minitor 5 Radio Batteries-NO SERIAL OR TOWN #
- (13) Motorola Minitor 5 Radio Charging Base 07862 06692 07861 00076 04808 06693 05680 01974 03565 09930 02927 00878 05675
- (3) Relm BK Radio Battery Holder-NO SERIAL OR TOWN #
- (2) Kenwood KBP-1 Radio Battery Case-NO SERIAL OR TOWN #
- (3) Kenwood TK-260 Radio Batteries- NO SERIAL OR TOWN #
- (3) MSA TIC (Thermal Imaging Camera)
- (4) MSA Evolution TIC (Thermal Imaging Camera) Base

TOWN OF PARADISE RESOLUTION NO. 2023-04

A RESOLUTION OF THE TOWN COUNCIL OF THE TOWN OF PARADISE DECLARING CERTAIN TOWN PROPERTY TO BE SURPLUS AND AUTHORIZING DISPOSAL THEREOF

WHEREAS, the Town of Paradise wishes to dispose of certain equipment from the Fire Department through public auction, internet sale, salvage or other legal method that is no longer functional or necessary to the Town's operations.

NOW, THEREFORE, BE IT RESOLVED BY THE TOWN COUNCIL OF THE TOWN OF PARADISE AS FOLLOWS:

<u>Section 1.</u> The Town hereby declares Fire Department property surplus as set forth in Exhibit "A" attached hereto and made a part hereof by reference.

<u>Section 2.</u> Pursuant to Paradise Municipal Code Section 2.45.130, the Town Manager is hereby authorized to dispose of the property set forth in Section 1 through public auction, internet, sale, salvage, donation or other legal method.

PASSED AND ADOPTED by the Town Council of the Town of Paradise on this 14th day of February, 2023, by the following vote:

AYES:			
NOES:			
ABSENT:			
ABSTAIN:			
	Ву:		
	•	Greg Bolin, Mayor	
ATTEST:			
Dina Volenski, CMC, Town Clerk			
APPROVED AS TO FORM:			
<u> </u>			
Scott E. Huber, Town Attorney			

TOWN OF PARADISE RESOLUTION 2023-04

EXHIBIT "A"

(1)	Garmin Nu							
(2)	Go Pro Camera w/accessories- No Serial or Town #							
(7)	Kenwood TK-272 Radios							
	B3900282			_				
	40201251	4020101	4 706005	39				
	70600538							
(1)	Kenwood ⁻			-				
(1)	Porta Cou							
(1)	Industrial S	3cientific	Gas Calib	rator 110	32xy003			
(1)	Minolta Ma			_	7950			
(1)	Qualcomm							
(2)	Motorola F				dio Pagers			
(20)	Motorola N		•	•				
	VJW6813		/HN2573		VGS1190		VHN2556	
	VKQ4713				VKQ4716		VHJ7505	
	VKQ4714				VHA6117		VJW6814	
	VHN2557				VHN2552		VJY4366	
136V	VJY4362	136W	/JY4361	136V	VJY4363	0091		
(15)	Motorola M	linitar 5	Padia Bat	torios NO	SEDIAL C		#	
(15) (13)	Motorola N					IN TOVVIN	#	
(13)		06692	07861	00076	04808	06693	05680	
		03565	09930	02927		05675	03000	
(3)	Relm BK F							
(2)	Kenwood I						/N #	
(3)	Kenwood ⁻							
(3)	MSA TIC (OEI (II) (E C		,,	
(4)	MSA Evolu			zamora)				
\ '/			_400					

Town of Paradise



Council Agenda Summary

Agenda Item: 2(d)

Date: February 14, 2023

ORIGINATED BY: Jessica Erdahl, Sr. Capital Projects Manager

REVIEWED BY: Kevin Phillips, Town Manager

SUBJECT: On-System Culvert Repair Project – Construction

Contract Acceptance

LONG TERM Yes, Tier 1

RECOVERY PLAN:

COUNCIL ACTION REQUESTED:

 Consider adopting Resolution No. 2023-___, A Resolution of the Town Council of Town of Paradise accepting the work performed under the On-System Culvert Repair Project (Contract No. 7301.CON) Performed by Escheman Construction Company." (ROLL CALL VOTE)

Background:

As a result of the 2018 Camp Fire, numerous on-system HDPE culverts were damaged. Immediately following the disaster, the Town identified fifteen (15) on-system culverts, initially, that needed emergency opening (EO) repairs. EO repairs were completed between December 2018 and June 2019. Subsequent assessments identified twenty-five (25) additional locations that were damaged and in need of permanent restoration.

The Town coordinated with Caltrans and Federal Highways Administration (FHWA) to secure Emergency Relief permanent restoration funding to repair the damaged infrastructure town wide. Through the Emergency Relief Program, the Town of Paradise has been approved for \$922,950 for the on-system culvert repair project. The approved project is located on Federal-Aid "On-System" roads – meaning the Town's primary collectors and arterials such as Skyway, Clark, Pearson, Elliott, Bille, Wagstaff, Pentz, etc.

On December 11, 2018, Paradise Town Council awarded a contract to Mark Thomas to perform engineering services on disaster related projects. Subsequently, in July 2020, task orders were issued to perform civil design services on the culvert repair project.

On October 12, 2021 Paradise Town Council adopted a resolution approving the Plans & Specifications for the On-System culvert repair project. Council further directed staff to advertise for bids.

On January 11, 2022 Paradise Town Council awarded contract No 7301.CON On-System Culvert Repair Project to Escheman Construction Company in the amount of their base bid \$595,398.51 and approved contingency expenditures not exceeding 10%.

Analysis:

Construction efforts began on March 14, 2022 and the project was substantially complete on

September 27, 2022.

Financial Impact:

The total estimated construction cost of the Project, including a 10% contingency, was \$652,738.36. The actual total construction cost is \$735,636.55. Actual construction expenditures exceeded the 10% contingency due to additional damage caused by the Camp Fire not previously included in the contract quantities, as well as unforeseen environmental requirements. Escheman Construction Company's bid was below available construction funding; therefore, ER funds are available to cover these additional costs. Project expenditures and a funding summary is detailed below:

Contract Items	Participating Reimb. Ratio	Total Cost	ER	Local Match	
Construction Contract - Actuals	88.53%	\$ 735,636.55	\$ 651,259.04	\$	84,377.51
Construction Management - Estimated	88.53%	\$ 110,000.00	\$ 97,383.00	\$	12,617.00
Total		\$ 845,636.55	\$ 748,642.04	\$	96,994.51
Available Funding CON/CE		\$ 847,900.00	\$ 750,645.87	\$	97,254.13
Balance		\$ 2,263.45	\$ 2,003.83	\$	259.62

Attachments:

A. Resolutions

RESOLUTION NO. 2023-05

RESOLUTION OF THE TOWN COUNCIL OF TOWN OF PARADISE ACCEPTING THE WORK PERFORMED UNDER THE ON-SYSTEM CULVERT REPAIR PROJECT (CONTRACT NO. 7301.CON) PERFORMED BY ESCHEMAN CONSTRUCTION COMPANY

WHEREAS, the Town of Paradise has heretofore contracted with Escheman Construction Company for certain work performed under that certain project known as the On-System Culvert Repair Project, being Contract No. 7301.CON; and

WHEREAS, said work of improvements, as called for by the contract between the Town of Paradise and Escheman Construction Company, referable to said project was completed on December 29, 2022 to the satisfaction of the Town; and

WHEREAS, there has been posted a bond insuring the work of improvements from a maintenance standpoint for a period of one year from and after completion.

NOW, THEREFORE, BE IT RESOLVED AND ORDERED by the Town Council of the Town of Paradise that it hereby accepts the work performed on those certain improvements, the subject of a contract between the Town of Paradise and Escheman Construction Company, known and referred to as the On-System Culvert Repair Project.

THE FOREGOING RESOLUTION WAS DULY AND REGULARLY INTRODUCED, PASSED, AND ADOPTED by the Town Council of the Town of Paradise at a regular meeting thereof held on the 14th day of February 2023.

NOES:	
ABSENT:	
ATTEST:	Greg Bolin, Mayor
Dina Volenski, CMC, Town Clerk	
APPROVED AS TO FORM:	
Scott E. Huber, Town Attorney	

AYFS.

Town of Paradise



Council Agenda Summary

Agenda Item: 2(e)

Date: February 14, 2023

ORIGINATED BY: Dina Volenski, Town Clerk
REVIEWED BY: Kevin Phillips, Town Manager

SUBJECT: Amendment to positions listed in the Town of Paradise

Conflict of Interest Code

LONG TERM
RECOVERY PLAN:

No

COUNCIL ACTION REQUESTED:

 Adopt Resolution No. 2023-___, A Resolution of the Town Council of the Town of Paradise Amending and Re-Adopting Conflict of Interest Code for the Agencies and Departments of the Town of Paradise Which Incorporate by Reference the Fair Political Practices Commission's Standard Model Conflict of Interest.

Background:

Government Code Section 87300, et seq., requires every local government agency to adopt and promulgate a Conflict of Interest Code that sets forth Town officials/employees who make decisions that might benefit them financially and, as such, must publicly disclose certain financial interests. The proposed resolution incorporates by reference the Fair Political Practices Commission adopted regulation (2 Cal. Code of Reg., Section 18730) which contains the terms of a standard model Conflict of Interest Code.

Analysis:

Upon review, it was determined that Appendix B to the Town Conflict of Interest Code needs to be revised to amend and update several positions/titles due to the Reclassification and addition of new positions over the last two years and also update the appropriate disclosure categories.

Financial Impact:

None

TOWN OF PARADISE RESOLUTION NO. 2023-06

TOWN OF PARADISE RESOLUTION NO. 2023-

A RESOLUTION OF THE TOWN COUNCIL OF THE TOWN OF PARADISE AMENDING AND RE-ADOPTING CONFLICT OF INTEREST CODE FOR THE AGENCIES AND DEPARTMENTS OF THE TOWN OF PARADISE WHICH INCORPORATE BY REFERENCE THE FAIR POLITICAL PRACTICES COMMISSION'S STANDARD MODEL CONFLICT OF INTEREST

WHEREAS, the Political Reform Act, Government Code Section 87300, et seq., requires every local government agency to adopt and promulgate a Conflict of Interest Code; and

WHEREAS, the Fair Political Practices Commission has adopted a regulation, 2 Cal. Code of Reg., Section 18730, which contains the terms of a standard model Conflict of Interest Code, which can be incorporated by reference, and which will be amended to conform to amendments in the Political Reform Act; and

WHEREAS, this Town Council has determined that the attached Appendices A, B and C accurately set forth those positions which should be designated and the categories of financial interests which should be made reportable;

NOW, THEREFORE, BE IT RESOLVED BY THE TOWN COUNCIL OF THE TOWN OF PARADISE AS FOLLOWS:

- 1. The provisions of Title 2 of the California Code of Regulations Section 18730 and any amendment to it duly adopted by the Fair Political Practices Commission along with the attached Appendices in which Town officials and employees are designated and disclosure categories are set forth, are hereby amended and re-adopted and incorporated by reference and constitute the Conflict of Interest Codes of the Town of Paradise.
- 2. Persons holding designated positions shall file statements of economic interest pursuant to Section 18730. All designated employees shall file their statement with the Paradise Town Clerk to whom the Town Council hereby delegates the authority to carry out the duties of filing officer.
- 3. Statements of economic interest for members of the Town Council, Planning Commission, Town Manager, Town Attorney, Finance Director/Town Treasurer shall be filed with the Town Clerk who shall make and retain a copy and forward the original of these statements to the Fair Political Practices Commission.

TOWN OF PARADISE RESOLUTION NO. 2023-

A RESOLUTION OF THE TOWN COUNCIL OF THE TOWN OF PARADISE AMENDING AND RE-ADOPTING CONFLICT OF INTEREST CODE FOR THE AGENCIES AND DEPARTMENTS OF THE TOWN OF PARADISE WHICH INCORPORATE BY REFERENCE THE FAIR POLITICAL PRACTICES COMMISSION'S STANDARD MODEL CONFLICT OF INTEREST

PASSED AND ADOPTED by the T February, 2023, by the following vote:		of the	Town	of	Paradise	this	14th	day	of
AYES:									
NOES:									
ABSENT:									
NOT VOTING:									
		Greg	Bolin,	Ma	iyor				
ATTEST:									
Dina Volenski, CMC, Town Clerk									
APPROVED AS TO FORM:									
Scott E. Huber, Town Attorney	-								

APPENDIX A RESOLUTION NO. 2023-

GENERAL PROVISIONS

When a designated employee is required to disclose investments and sources of incomes, he/she need only disclose investments in business entities and sources of income which do business in the Town of Paradise, plan to do business in the Town of Paradise or have done business in the Town of Paradise within the past two years. In addition to other activities, a business entity is doing business within the Town of Paradise if it owns real property within the Town limits. When a designated employee is required to disclose interests in real property, he need only disclose real property which is located in whole or in part within, or no more than two miles outside, the boundaries of the Town of Paradise or within two miles of any land owned or used by the Town of Paradise.

Designated employees shall disclose their financial interest pursuant to the appropriate disclosure category as indicated in Appendix B.

DISCLOSURE CATEGORIES

<u>Category 1: Designated Employees Whose Duties are Broad and Indefinable</u>

All sources of income, interests in real property, and investments and business positions in business entities.

<u>Category 2:</u> <u>Designated Employees Whose Duties Involve Contracting or Purchasing</u>

<u>Contracts or makes purchases for entire agency:</u> Investments and business positions in business entities and sources of income which provide services, supplies, materials, machinery or equipment of the type utilized by the agency.

<u>Contracts or makes purchases for specific department within the agency:</u> Investments and business positions in business entities and sources of income which provide services, supplies, materials, machinery or equipment of the type utilized by the designated employee's department or division.

Category 3: Designated Employees Whose Duties Involve Regulatory, Permit, or Licensing Powers

All investments and business positions in business entities and sources of income which are subject to the regulatory permit or licensing authority of the Town.

<u>Category 4:</u> <u>Designated Employees Whose Decisions May Affect Real Property Interests</u>

Investments and business positions in business entities and sources of income which engage in land development, construction or the acquisition or sale of real property, and all interests in real property.

APPENDIX B RESOLUTION 2023-__

Town Council Successor Agency to Paradise Redevelopment Agency Directors Planning Commissioners Measure V Oversight Committee	1 1 1 1
Town Manager/Successor Agency Manager Assistant Town Manager Assistant to the Town Manager Town Attorney/Successor Agency Counsel Finance Director/Town Treasurer-/Successor Agency Finance Director	1 1 1 1
Town Clerk/Elections Official/Successor Agency Clerk-Secretary	1
Human Resources/Risk Management Director	1
Recovery and Economic Development Director Recovery and Economic Development Project Manager	1 1
Housing Program Supervisor Manager Housing Program Analyst Technician	4 4
Information Systems-Director	2
Fleet Services Supervisor Senior Mechanic	2
Chief of Police Police Lieutenant	1 2
Fire Chief Fire Battalion Chief Building Official/ Fire Marshall	1 2 3
Community Development Director (CDD) -Onsite Community Development Director (CDD) -Building Community Development Manager Assistant/Associate Planner Senior Planner	1 1 2 1 1
Senior Supervising Code Enforcement Officer	3
Code Enforcement Officer I/II CDD Permit Coordinator Fire Inspectors I/II Construction Inspector I/II Building/Onsite Inspector I/II Assistant Onsite Sanitary Official	3 3 3 3 3 3
Senior Building/Onsite Inspector	3

Senior Accountant	3
Accounting Manager	3
Accountant	3
Public Works Director/Town Engineer	1
Assistant/Associate Engineer	3
Senior Planner	1
Principal Engineer	3
Engineering Division Manager	3
Capital Projects Manager	1
Senior Capital Project Manager	1
Infrastructure Program Manager	3
Public Works Manager	2

APPENDIX C RESOLUTION NO. 2023-

Consultant/Contract Employee Disclosure Category

Consultants/contract employees shall be included in the list of designated employees and shall disclose pursuant to the broadest disclosure category in the code subject to the following limitation:

The Town Attorney may determine in writing that a particular consultant, although a "designated position," is hired to perform a range of duties that is limited in scope and thus is not required to fully comply with the disclosure requirements described in this section. Such written determination shall include a description of the consultant's/contractor's duties and, based upon that description, a statement of the extent of disclosure requirements. The Town Attorney's determination is a public record and shall be retained for public inspection in the same manner and location as this Conflict of Interest Code.

Town of Paradise



Council Agenda Summary

Agenda Item: 2(f)

Date: February 14, 2023

ORIGINATED BY: Jessica Erdahl, Sr. Capital Projects Manager

REVIEWED BY: Kevin Phillips, Town Manager

SUBJECT: Off-System Culvert Repair Project – Construction

Contract Acceptance

LONG TERM Yes, Tier 1

RECOVERY PLAN:

COUNCIL ACTION REQUESTED:

 Consider adopting Resolution No.2023-___, A Resolution of the Town Council of Town of Paradise Accepting the Work Performed Under the Off-System Culvert Repair Project (Contract No. 8408.CON) Performed by Allen Gill Construction, Inc. (ROLL CALL VOTE)

Background:

As a result of the 2018 Camp Fire, numerous off-system HDPE culverts were damaged. Immediately following the disaster, the Town identified two (2) off-system culverts, initially, that needed emergency opening (EO) repairs. EO repairs were completed in January 2019. Subsequent assessments identified twenty-five (25) additional locations that were damaged and in need of permanent restoration.

On November 10, 2020, Paradise Town Council awarded master on-call contracts to Mark Thomas, Dokken Engineering, GHD, Inc., Wood Rodgers, Inc. and Dewberry Drake Haglan to perform on-call professional civil engineering services for a variety of local, state, and federally-funded projects. Subsequently, in February 2021, a task order was issued to Dokken Engineering, to perform civil design services on the Off-System Culvert Replacement Project.

The overall scope of work for the Project can be summarized as follows:

Repair Camp Fire damaged off-system culverts to achieve a pre-fire condition.

On June 14, 2022 Paradise Town Council adopted a resolution approving the Plans & Specifications for the Off-System Culvert Repair Project. Council further directed staff to advertise for bids.

On July 12, 2022 Paradise Town Council awarded contract No 8408.CON On-System Culvert Repair Project to Allen Gill Construction, Inc. in the amount of their base bid \$478,901.00 and approved contingency expenditures not exceeding 10%.

Analysis:

Construction efforts began on October 18, 2022 and the project was substantially complete on January 20, 2023.

Financial Impact:

The total estimated construction cost of the Project, including a 10% contingency, was \$526,791.10. The actual total construction cost is \$494,096.09. Project expenditures and a funding summary is detailed below:

Staff Report Actuals- Construction and CM

Contract Items	Participating Reimb. Ratio	Total Cost	FEMA	Lo	ocal Match
Construction Contract - Actuals	93.75%	\$ 494,096.09	\$ 463,215.08	\$	30,881.01
Construction Management - Estimated	93.75%	\$ 100,000.00	\$ 93,750.00	\$	6,250.00
Total		\$ 594,096.09	\$ 556,965.08	\$	37,131.01
Available Funding CON/CE		\$ 607,790.00	\$ 569,803.13	\$	37,986.88
Balance		\$ 13,693.91	\$ 12,838.04	\$	855.87

Attachments:

A. Resolutions

RESOLUTION NO. 2023-07

RESOLUTION OF THE TOWN COUNCIL OF TOWN OF PARADISE ACCEPTING THE WORK PERFORMED UNDER THE OFF-SYSTEM CULVERT REPAIR PROJECT (CONTRACT NO. 8408.CON) PERFORMED BY ALLEN GILL CONSTRUCTION, INC.

WHEREAS, the Town of Paradise has heretofore contracted with Allen Gill Construction, Inc. for certain work performed under that certain project known as the Off-System Culvert Repair Project, being Contract No. 8408.CON; and

WHEREAS, said work of improvements, as called for by the contract between the Town of Paradise and Allen Gill Construction, Inc., referable to said project was completed on January 20, 2022 to the satisfaction of the Town; and

WHEREAS, there has been posted a bond insuring the work of improvements from a maintenance standpoint for a period of one year from and after completion.

NOW, THEREFORE, BE IT RESOLVED AND ORDERED by the Town Council of the Town of Paradise that it hereby accepts the work performed on those certain improvements, the subject of a contract between the Town of Paradise and Allen Gill Construction, Inc., known and referred to as the Off-System Culvert Repair Project.

THE FOREGOING RESOLUTION WAS DULY AND REGULARLY INTRODUCED, PASSED, AND ADOPTED by the Town Council of the Town of Paradise at a regular meeting thereof held on the 14th day of February 2023.

AYES:	
NOES:	
ABSENT:	
ATTEST:	Greg Bolin, Mayor
Dina Volenski, CMC, Town Clerk	
APPROVED AS TO FORM:	
Scott E. Huber, Town Attorney	

4 VEO

Town of Paradise



Council Agenda Summary

Agenda Item: 2(g)

Date: February 14, 2023

ORIGINATED BY: Ross Gilb, Finance Director/Town Treasurer

REVIEWED BY: Kevin Phillips, Town Manager **SUBJECT:** Quarterly Investment Report

COUNCIL ACTION REQUESTED:

Review and file the 2nd Quarter Investment Report for the Fiscal Year Ending June 30, 2023.

Background:

Attached is the report on the Town's cash and investments for the quarter ended December 31, 2022.

A US Bank checking account is currently being used for payroll, accounts payable and other operating purposes. Most accounts payable disbursements are drawn through checks, and most payroll disbursements are processed through direct deposit. Deposits are fully collateralized. With COVID-19 and the impacts to the economy, the credit rate is currently less than 0.01%.

The Town received a \$5 million cash advance from CalOES in December 2018 for projects and restoration that will be funded through FEMA's public assistance grant program. As FEMA eligible expenses and/or projects are completed, funds are transferred to the Town operating checking account to fund those activities. The remaining advance funds are required to be held in a non-interest-bearing account. A US Bank non-interest-bearing checking account was established to track the funds. As of December 31, 2022, the remaining funds yet to be drawn upon was \$1,672,356. Additional funds are expected to be received into this account during the current and following fiscal years as the Town secures additional reimbursement for ongoing FEMA public assistance grants.

The Town has historically primarily utilized the State of California managed Local Agency Investment Fund (LAIF) for investment of General Fund cash in excess of immediately needed operating capital. LAIF provides for same day liquidity as funds can be transferred electronically through computer authorization between LAIF and the Town checking account. LAIF has also provided historically competitive yields, with an average return of 2.07% for the quarter ended December 31, 2022. LAIF has been a great investment option for the Town's General Fund short term reserves.

To provide additional opportunity for asset diversification, during the quarter ended September 30, 2022, the Town began utilizing the California Cooperative Liquid Assets Securities System

(California CLASS) in conjunction with the aforementioned investment accounts to hold short-term reserves. California CLASS is a joint exercise of powers entity authorized under Section 6509.7, California Government Code. California CLASS is a pooled investment option that was created via a joint exercise of powers agreement (JPA Agreement) by and among California public agencies. California CLASS provides the Town with a convenient method for investing in high-quality, short- to medium-term securities carefully selected to optimize interest earnings while maximizing safety and liquidity. The California CLASS Prime fund has provided the Town with an opportunity to strengthen and diversify its cash management programs in accordance with the safety, liquidity, and yield hierarchy that governs the investment of public funds. During the second quarter of the fiscal year, CLASS has provided a very competitive yield, with an average return of 3.69% for the quarter ended December 31, 2022.

In July 2020, the Town received a net settlement from PG&E related to the 2018 Camp Fire in the amount of \$219,187,262. Since that time, the Town continues to utilize two investment vehicles to manage these funds. Securities purchases are held in a custodial account with US Bank. The Town has contracted with Meeder Investments to assist with management of these funds. Excess funds that are not invested in specific securities are held in the State of California managed Local Agency Investment Fund (LAIF). These funds are held separate from the Town's General Fund LAIF account. Future use of these funds continues to be evaluated through a long-term fiscal sustainability model. Based on current rebuild rates and revenue growth trends, at this time it is expected that at least 80% of the total fund balance will be required to be utilized for long-term revenue backfill to ensure continued fiscal sustainability.

During the second quarter of the 2022-23 fiscal year, the Town transferred a total of \$8,400,000 from the combined LAIF and CLASS accounts to the Town's US Bank operating account in order to fund operations for the quarter.

In June of 2011, the Town established an irrevocable trust to begin funding the future obligations associated with retiree health as required by GASB 45. The funds are being managed by Self-Insured Schools of California (SISC) and can only be used for the payment of retiree health benefits.

Financial Impact:

Total investment earnings for the quarter ended December 31, 2022 was \$505,702. Total investment earnings for the 2022-23 fiscal year to date was \$841,726, which trends in line with total budgeted investment earnings for the 2022-23 fiscal year in the amount of \$1,100,000.

			For Quarter E	Ended December 31	2022	
Investment	Туре	Yield	Book Value	Market Value		Interest Earnings
US Bank	Checking	0.00%	2,377,091.20	2,377,091.20		-
US Bank - Cal OES Advance	Checking	0.00%	1,672,356.86	1,672,356.86		-
Local Agency Investment Fund (LAIF) (General Fund)	Savings	2.07%	3,294,671.13	3,233,354.86	*	17,211.25
Local Agency Investment Fund (LAIF) (PG&E Settlement Fund)	Savings	2.07%	38,525.65	37,808.66	*	8,595.44
California CLASS Prime Fund	Savings	3.69%	6,091,237.19	6,090,935.67	**	69,816.34
US Bank Custodial Investment Account	Various****	1.20%	198,230,559.54	183,713,261.86	***	410,079.59
SISC GASB 45 Trust B	Various	0.00%	254,534.13	254,534.13		-
Fiscal Agents & Petty Cash	Other	0.00%	1,350.00	1,350.00		-
	Totals	_	211,960,325.70	197,380,693.24		505,702.62

For Quarter Ended September 30, 2022							
Yield	Book Value	Market Value					
0.00%	2,945,582.69	2,945,582.69					
0.00%	1,672,356.86	1,672,356.86					
1.35%	3,283,498.59	3,220,327.24					
1.35%	5,404,571.20	5,300,592.45					
2.14%	7,021,420.85	7,020,309.64					
1.02%	199,845,464.82	184,132,633.48					
0.00%	254,534.13	254,534.13					
0.00%	1,350.00	1,350.00					
_	220,428,779.14	204,547,686.49					

Net Change
rict onlange
(568,491.49)
13,027.62
(5,262,783.79)
(929,373.97)
(419,371.62)
-
(7,166,993.25)

* Market Value determined by LAIF	

^{**} Market Value determined by California CLASS Prime Fund

Total Quarterly Earnings on Accrual Basis Year-to-Date Earnings (July 1st - June 30th)

In compliance with the California Code Section 53646; the Treasurer of the Town of Paradise herby certifies that sufficient investment liquidity and anticipated revenues are available to meet the Town's budgeted expenditure requirements for the next six months.

505,702.62 841,726.82

Investments in the report meet the requirements of the Town of Paradise's adopted investment policy.

Respectfully submitted,

/s/

Ross Gilb

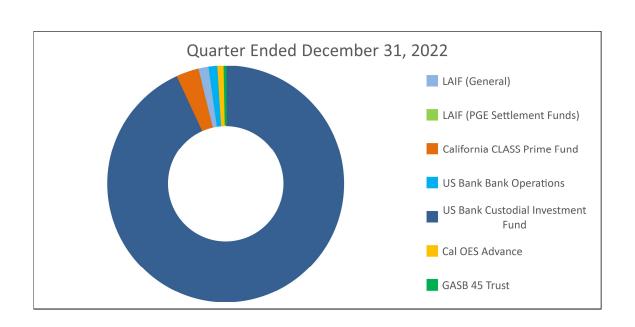
Finance Director/Town Treasurer

^{***} Market Value determined by US Bank

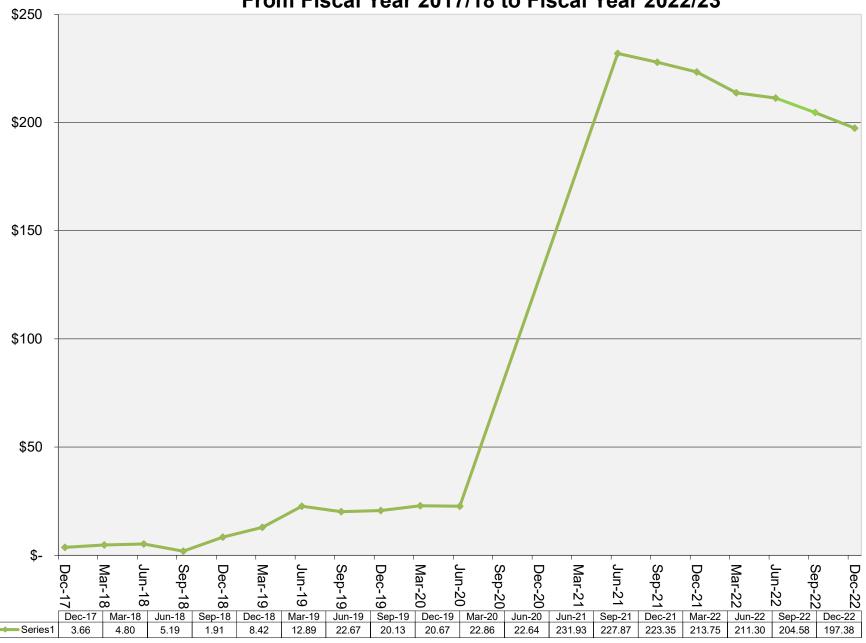
^{****} Detail investment type listing attached

TOWN OF PARADISE INVESTMENT BALANCES AT A GLANCE For Quarter Ended December 31, 2022

Investment Type	Tota	I
LAIF (General)	\$	3,233,354.86
LAIF (PGE Settlement Funds)		37,808.66
California CLASS Prime Fund		6,090,935.67
US Bank Bank Operations		2,377,091.20
US Bank Custodial Investment Fund		183,713,261.86
Cal OES Advance		1,672,356.86
GASB 45 Trust		254,534.13
Petty Cash		1,350.00
Grand Total	\$	197,380,693.24



TOWN OF PARADISE Timeline of Investment Market Value Balances (in millions) From Fiscal Year 2017/18 to Fiscal Year 2022/23



PORTFOLIO SUMMARY

As of December 31, 2022



QUARTERLY RECONCILIATION	
Beginning Book Value	19

QUARTERET RECONCILIATION	
Beginning Book Value	199,845,464.85
Contributions	
Withdrawals	(2,000,000.00)
Prior Month Management Fees	(16,500.00)
Prior Month Custodian Fees	(4,600.87)
Realized Gains/Losses	68,925.62
Purchased Interest	(3,884.03)
Gross Interest Earnings	341,153.97
Ending Book Value	198,230,559.54

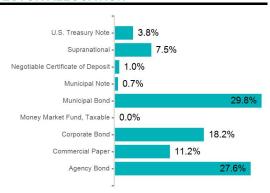
DODTEOLIO CHADACTEDISTICS

PORTFOLIO CHARACTERISTICS	
Portfolio Yield to Maturity	1.20%
Portfolio Effective Duration	2.01 yrs
Weighted Average Maturity	2.09 yrs

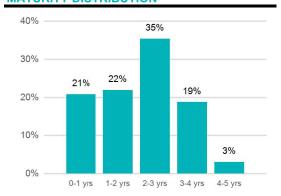


Jan Feb Mar Apr May Jun Jul

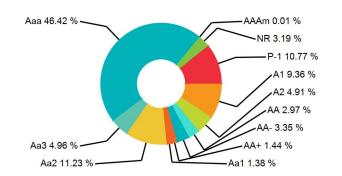
SECTOR ALLOCATION



MATURITY DISTRIBUTION



CREDIT QUALITY



POSITION STATEMENT



CUSIP	Security Description	Trade Date/ Settlement Date	Par Value	Principal Cost/ Purchased Interest	Total Cost	Yield at Cost	Maturity/ Duration	Market Price/ Market Value	Unrealized Gain/ (Loss)	% of Assets	Moody's/ S&P Rating
Cash and Cas	sh Equivalents										
00266CASH	LAIF-PG&E	12/30/2022 12/30/2022	\$38,525.65	\$38,525.65	\$38,525.65	2.23%	0.003 0.003	\$1.00 \$38,525.65		0.02%	NR
31846V567	First American Funds, Inc.	12/30/2022 12/30/2022	\$21,977.55	\$21,977.55	\$21,977.55	4.06%	0.003 0.003	\$1.00 \$21,977.55		0.01%	AAAm
00343CASH	California CLASS Prime Fund	12/30/2022 12/30/2022	\$6,091,237.19	\$6,091,237.19	\$6,091,237.19	4.20%	0.003 0.003	\$1.00 \$6,091,237.19	\$0.00	3.21%	
	SubTotal		\$6,151,740.39	\$6,151,740.39	\$6,151,740.39	4.19%		\$6,151,740.39	\$0.00	3.24%	
Agency Bond	ı										
3133ENEX4	FFCB 0.550% 11/24/2023	1/12/2022 1/13/2022	\$2,000,000.00	\$1,986,954.00	\$1,986,954.00	0.90%	0.901 0.879	\$96.10 \$1,921,940.00		1.01%	Aaa AA+
3133EMLV2	FFCB 0.270% 04/05/2024	1/5/2021 1/6/2021	\$5,000,000.00	\$4,996,250.00	\$4,996,250.00	0.29%	1.266 1.234	\$94.23 \$4,711,350.00		2.48%	Aaa AA+
3135G06E8	FNMA 0.420% 11/18/2024	11/23/2020 11/24/2020	\$5,000,000.00	\$4,996,250.00	\$4,996,250.00	0.44%	1.888 1.836	\$92.08 \$4,603,900.00		2.43%	Aaa AA+
3134GXDZ4	FMCC 0.450% 11/25/2024	11/25/2020 11/30/2020	\$3,000,000.00	\$2,999,550.00	\$2,999,550.00	0.45%	1.907 1.856	\$92.27 \$2,768,070.00	(\$231,480.00)	1.46%	Aaa AA+
3134GXJQ8	FMCC 0.320% 01/06/2025	1/27/2021 1/28/2021	\$1,750,000.00	\$1,749,125.00	\$1,749,125.00	0.33%	2.022 1.967	\$91.66 \$1,604,085.00	(+	0.84%	Aaa AA+
3130AKQF6	FHLB 0.400% 01/27/2025	1/19/2021 1/27/2021	\$2,500,000.00	\$2,499,250.00	\$2,499,250.00	0.41%	2.079 2.020	\$91.52 \$2,288,100.00		1.21%	Aaa AA+
3134GXKU7	FMCC 0.375% 01/29/2025	1/11/2021 1/29/2021	\$3,500,000.00	\$3,495,450.00	\$3,495,450.00	0.41%	2.085 2.027	\$91.55 \$3,204,285.00	(\$291,165.00)	1.69%	Aaa AA+
3134GXCV4	FMCC 0.500% 05/30/2025	11/19/2020 11/30/2020	\$5,000,000.00	\$5,000,000.00	\$5,000,000.00	0.50%	2.416 2.348	\$90.77 \$4,538,300.00	(\$461,700.00)	2.39%	Aaa AA+
3133EMDZ2	FFCB 0.520% 10/21/2025	11/19/2020 11/20/2020	\$5,000,000.00	\$4,986,000.00	\$4,986,000.00	0.58%	2.811 2.722	\$89.62 \$4,480,950.00	(+ , ,	2.36%	Aaa AA+
3135GA2A8	FNMA 0.580% 10/28/2025	12/21/2020 12/22/2020	\$5,000,000.00	\$5,013,800.00	\$5,013,800.00	0.43%	2.830 2.737	\$89.73 \$4,486,300.00	(\$527,500.00)	2.36%	Aaa AA+
3134GXFA7	FMCC 0.650% 11/26/2025	11/24/2020 11/30/2020	\$3,000,000.00	\$3,000,000.00	\$3,000,000.00	0.65%	2.910 2.810	\$89.68 \$2,690,490.00	(\$309,510.00)	1.42%	Aaa AA+
3134GXFV1	FMCC 0.625% 12/17/2025	12/3/2020 12/17/2020	\$2,500,000.00	\$2,498,750.00	\$2,498,750.00	0.64%	2.967 2.868	\$89.10 \$2,227,600.00	(' ' '	1.17%	Aaa AA+

POSITION STATEMENT



CUSIP	Security Description	Trade Date/ Settlement Date	Par Value	Principal Cost/ Purchased Interest	Total Cost	Yield at Cost	Maturity/ Duration	Market Price/ Market Value	Unrealized Gain/ (Loss)	% of Assets	Moody's S&P Rating
3135G06Q1	FNMA 0.640% 12/30/2025	12/23/2020 12/30/2020	\$3,000,000.00	\$3,003,750.00	\$3,003,750.00	0.61%	3.003 2.880	\$88.96 \$2,668,650.00	(\$335,100.00)	1.41%	Aaa AA+
3133EMMR0	FFCB 0.470% 01/12/2026	1/5/2021 1/12/2021	\$2,340,000.00	\$2,336,536.80	\$2,336,536.80	0.50%	3.038 2.937	\$88.82 \$2,078,458.20	(\$258,078.60)	1.09%	Aaa AA+
31422B6K1	AGM 0.480% 01/15/2026	1/7/2021 1/15/2021	\$3,500,000.00	\$3,496,500.00	\$3,496,500.00	0.50%	3.047 2.955	\$89.61 \$3,136,175.00	(\$360,325.00)	1.65%	
3135G06R9	FNMA 0.550% 01/28/2026	1/5/2021 1/28/2021	\$3,000,000.00	\$3,000,000.00	\$3,000,000.00	0.55%	3.082 2.974	\$88.91 \$2,667,330.00	(\$332,670.00)	1.41%	Aaa AA+
3130ATUS4	FHLB 4.250% 12/10/2027	12/20/2022 12/21/2022	\$700,000.00	\$710,829.00 \$3,884.03	\$714,713.03	3.90%	4.948 4.394	\$100.79 \$705,509.00	(\$5,320.00)	0.37%	Aaa AA+
	SubTotal		\$55,790,000.00	\$55,768,994.80 \$3,884.03	\$55,772,878.83	0.54%		\$50,781,492.20	(\$4,987,502.60)	26.75%	
Commercial F	Paper										
62479MNQ2	MUFG Bank, Ltd. 01/24/2023	8/24/2022 8/25/2022	\$1,000,000.00	\$985,982.22	\$985,982.22	3.37%	0.068 0.070	\$99.69 \$996,940.00	\$10,957.78	0.53%	P-1 A-1
7426M3NW5	Private Export Funding Corporation 01/30/2023	11/9/2022 11/9/2022	\$1,100,000.00	\$1,089,551.83	\$1,089,551.83	4.21%	0.085 0.086	\$99.62 \$1,095,765.00	\$6,213.17	0.58%	P-1 NR
09659KP61	BNP Paribas 02/06/2023	8/4/2022 8/5/2022	\$1,400,000.00	\$1,375,466.94	\$1,375,466.94	3.47%	0.104 0.104	\$99.53 \$1,393,392.00	\$17,925.06	0.73%	P-1 A-1
69372BPE4	PACCAR Financial Corp. 02/14/2023	11/14/2022 11/14/2022	\$1,100,000.00	\$1,087,912.22	\$1,087,912.22	4.35%	0.126 0.126	\$99.43 \$1,093,719.00	\$5,806.78	0.58%	P-1 A-1
62479MPQ0	MUFG Bank, Ltd. 02/24/2023	8/24/2022 8/25/2022	\$1,000,000.00	\$982,310.00	\$982,310.00	3.54%	0.153 0.152	\$99.31 \$993,050.00	\$10,740.00	0.52%	P-1 A-1
2254EBPT2	Credit Suisse AG 02/27/2023	6/2/2022 6/2/2022	\$875,000.00	\$857,937.50	\$857,937.50	2.65%	0.162 0.160	\$99.27 \$868,586.25	\$10,648.75	0.46%	NR A-2
53948BQL6	Lloyds Bank Corporate Markets PLC 03/20/2023	8/24/2022 8/25/2022	\$2,000,000.00	\$1,959,175.00	\$1,959,175.00	3.62%	0.219 0.217	\$98.98 \$1,979,640.00		1.04%	P-1 A-1
62479MRQ8	MUFG Bank, Ltd. 04/24/2023	8/24/2022 8/25/2022	\$1,300,000.00	\$1,268,277.83	\$1,268,277.83	3.72%	0.315 0.310	\$98.50 \$1,280,435.00		0.67%	P-1 A-1
62479MRR6	MUFG Bank, Ltd. 04/25/2023	8/25/2022 8/26/2022	\$1,750,000.00	\$1,707,297.08	\$1,707,297.08	3.72%	0.318 0.312	\$98.48 \$1,723,435.00	\$16,137.92	0.91%	P-1 A-1
62479MS12	MUFG Bank, Ltd. 05/01/2023	8/4/2022 8/5/2022	\$500,000.00	\$486,624.72	\$486,624.72	3.68%	0.334 0.328	\$98.35 \$491,765.00		0.26%	P-1 A-1

POSITION STATEMENT



CUSIP	Security Description	Trade Date/ Settlement Date	Par Value	Principal Cost/ Purchased Interest	Total Cost	Yield at Cost	Maturity/ Duration	Market Price/ Market Value	Unrealized Gain/ (Loss)	% of Assets	Moody's S&P Rating
21687BSP7	Cooperatieve Rabobank U.A. 05/23/2023	8/24/2022 8/26/2022	\$1,500,000.00	\$1,459,050.00	\$1,459,050.00	3.74%	0.395 0.387	\$98.06 \$1,470,840.00	\$11,790.00	0.77%	P-1 A-1
46640QTC5	J.P. Morgan Securities LLC 06/12/2023	10/11/2022 10/11/2022	\$2,700,000.00	\$2,615,454.00	\$2,615,454.00	4.77%	0.449 0.440	\$97.73 \$2,638,737.00	\$23,283.00	1.39%	P-1 A-1
46640QTG6	J.P. Morgan Securities LLC 06/16/2023	9/19/2022 9/19/2022	\$3,510,000.00	\$3,396,276.00	\$3,396,276.00	4.46%	0.460 0.451	\$97.68 \$3,428,427.60	\$32,151.60	1.81%	P-1 A-1
21687BVE8	Cooperatieve Rabobank U.A. 08/14/2023	12/12/2022 12/13/2022	\$1,240,000.00	\$1,197,305.42	\$1,197,305.42	5.26%	0.622 0.607	\$96.75 \$1,199,737.20	\$2,431.78	0.63%	P-1 A-1
	SubTotal		\$20,975,000.00	\$20,468,620.76	\$20,468,620.76	4.03%		\$20,654,469.05	\$185,848.29	10.88%	
Corporate Bo	nd										
06406RAM9	The Bank of New York Mellon Corporation 1.850% 01/27/2023	3/8/2022 3/10/2022	\$500,000.00	\$501,480.00	\$501,480.00	1.48%	0.077 0.078	\$99.78 \$498,885.00	(\$2,595.00)	0.26%	A1 A
17330PSX8	Citigroup Global Markets Holdings Inc. 3.750% 07/20/2023	7/8/2022 7/20/2022	\$1,950,000.00	\$1,950,000.00	\$1,950,000.00	3.75%	0.553 0.534	\$98.81 \$1,926,795.00	(\$23,205.00)	1.01%	A2 A
89236THF5	Toyota Motor Credit Corporation 0.500% 08/14/2023	11/24/2020 11/27/2020	\$3,025,000.00	\$3,033,152.38	\$3,033,152.38	0.40%	0.622 0.607	\$97.30 \$2,943,355.25	(\$89,797.13)	1.55%	A1 A+
17330Y4T4	Citigroup Global Markets Holdings Inc. 5.500% 10/31/2023	10/26/2022 10/31/2022	\$2,700,000.00	\$2,700,000.00	\$2,700,000.00	5.50%	0.836 0.791	\$99.16 \$2,677,185.00	(\$22,815.00)	1.41%	A2 A
06406RAP2	The Bank of New York Mellon Corporation 0.350% 12/07/2023	8/18/2021 8/20/2021	\$1,200,000.00	\$1,200,000.00	\$1,200,000.00	0.35%	0.937 0.915	\$95.88 \$1,150,512.00	(\$49,488.00)	0.61%	A1 A
89236THU2	Toyota Motor Credit Corporation 0.450% 01/11/2024	1/7/2021 1/11/2021	\$4,000,000.00	\$4,004,160.00	\$4,004,160.00	0.42%	1.033 1.007	\$95.73 \$3,829,000.00	(\$175,160.00)	2.02%	A1 A+
023135BW5	Amazon.com, Inc. 0.450% 05/12/2024	5/11/2021 5/13/2021	\$2,000,000.00	\$1,999,220.00	\$1,999,220.00	0.46%	1.367 1.332	\$94.28 \$1,885,540.00	(\$113,680.00)	0.99%	A1 AA

POSITION STATEMENT



CUSIP	Security	Trade Date/	Par Value	Principal Cost/	Total Cost	Yield at	Maturity/	Market Price/	Unrealized Gain/	% of	Moody's/
CUSIP	Description	Settlement Date	Par Value	Purchased Interest	lotal Cost	Cost	Duration	Market Value	(Loss)	Assets	Rating
89236TJG1	Toyota Motor Credit Corporation 0.500% 06/14/2024	6/4/2021 6/14/2021	\$1,500,000.00	\$1,500,000.00	\$1,500,000.00	0.50%	1.458 1.418	\$93.57 \$1,403,580.00	(\$96,420.00)	0.74%	A1 A+
14913R2P1	Caterpillar Financial Services Corporation 0.600% 09/13/2024	9/9/2021 9/14/2021	\$420,000.00	\$420,151.20	\$420,151.20	0.59%	1.707 1.659	\$93.40 \$392,284.20	(\$27,867.00)	0.21%	A2 A
14913R2P1	Caterpillar Financial Services Corporation 0.600% 09/13/2024	9/8/2021 9/14/2021	\$480,000.00	\$480,240.00	\$480,240.00	0.58%	1.707 1.659	\$93.40 \$448,324.80	(\$31,915.20)	0.24%	A2 A
69371RR99	PACCAR Financial Corp. 3.550% 08/11/2025	8/10/2022 8/12/2022	\$2,000,000.00	\$2,002,020.00 \$197.22	\$2,002,217.22	3.51%	2.616 2.429	\$97.37 \$1,947,420.00	(\$54,600.00)	1.03%	A1 A+
478160CN2	Johnson & Johnson 0.550% 09/01/2025	1/12/2021 1/14/2021	\$3,000,000.00	\$2,992,050.00	\$2,992,050.00	0.61%	2.674 2.593	\$90.47 \$2,713,980.00	(\$278,070.00)	1.43%	Aaa AAA
037833EB2	Apple Inc. 0.700% 02/08/2026	2/2/2021 2/8/2021	\$5,000,000.00	\$4,988,750.00	\$4,988,750.00	0.75%	3.112 3.000	\$88.91 \$4,445,350.00	(\$543,400.00)	2.34%	Aaa AA+
14913R2Q9	Caterpillar Financial Services Corporation 1.150% 09/14/2026	9/17/2021 9/21/2021	\$2,500,000.00	\$2,506,275.00	\$2,506,275.00	1.10%	3.710 3.538	\$88.46 \$2,211,475.00	(\$294,800.00)	1.16%	A2 A
24422EWD7	John Deere Capital Corporation 2.350% 03/08/2027	3/8/2022 3/10/2022	\$1,500,000.00	\$1,497,345.00	\$1,497,345.00	2.39%	4.189 3.876	\$91.21 \$1,368,195.00	(\$129,150.00)	0.72%	A2 A
89236TJZ9	Toyota Motor Credit Corporation 3.050% 03/22/2027	3/18/2022 3/22/2022	\$1,750,000.00	\$1,757,752.50	\$1,757,752.50	2.95%	4.227 3.858	\$93.49 \$1,635,987.50	(\$121,765.00)	0.86%	A1 A+
023135CF1	Amazon.com, Inc. 3.300% 04/13/2027	5/17/2022 5/19/2022	\$2,000,000.00	\$1,982,220.00	\$1,982,220.00	3.50%	4.288 3.873	\$95.18 \$1,903,640.00	(\$78,580.00)	1.00%	A1 AA
	SubTotal		\$35,525,000.00	\$35,514,816.08 \$197.22	\$35,515,013.30	1.71%		\$33,381,508.75	(\$2,133,307.33)	17.58%	
Municipal Bo	ond										
757696AP4	Redondo Beach - Community Financing Authority, City of 0.415% 05/01/2023	7/2/2021 7/15/2021	\$850,000.00	\$850,000.00	\$850,000.00	0.42%	0.334 0.329	\$98.61 \$838,159.50	(\$11,840.50)	0.44%	AA

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CUSIP	Security Description	Trade Date/ Settlement Date	Par Value	Principal Cost/ Purchased Interest	Total Cost	Yield at Cost	Maturity/ Duration	Market Price/ Market Value	Unrealized Gain/ (Loss)	% of Assets	Moody's S&P Rating
38122NA51	Golden State Tobacco Securitization Corporation 0.672% 06/01/2023	10/6/2021 10/8/2021	\$2,300,000.00	\$2,307,314.00	\$2,307,314.00	0.48%	0.419 0.411	\$98.36 \$2,262,234.00	(''''	1.19%	Aa3 A+
482124SM7	Jurupa Unified School District 0.421% 08/01/2023	4/13/2021 5/4/2021	\$1,895,000.00	\$1,895,000.00	\$1,895,000.00	0.42%	0.586 0.574	\$97.63 \$1,850,069.55		0.97%	Aa3
03667PHC9	Antelope Valley Community College District 0.282% 08/01/2023	8/11/2021 8/31/2021	\$320,000.00	\$320,000.00	\$320,000.00	0.28%	0.586 0.574	\$97.53 \$312,080.00		0.16%	Aa2 AA
626905PN7	Murrieta Valley Unified School District 0.449% 09/01/2023	7/15/2021 7/28/2021	\$500,000.00	\$500,000.00	\$500,000.00	0.45%	0.671 0.657	\$97.34 \$486,710.00	(''''	0.26%	Aa2
953321AB2	West Hollywood Community Development Commission 0.493% 09/01/2023	7/16/2021 7/29/2021	\$250,000.00	\$250,000.00	\$250,000.00	0.49%	0.671 0.656	\$97.21 \$243,032.50	(\$6,967.50)	0.13%	AA-
797686EL2	The San Francisco Municipal Transportation Agency 0.389% 03/01/2024	9/16/2021 9/20/2021	\$500,000.00	\$498,650.00	\$498,650.00	0.50%	1.170 1.141	\$95.13 \$475,650.00		0.25%	Aa3 A+
072024WP3	Bay Area Toll Authority 2.254% 04/01/2024	1/6/2021 1/8/2021	\$800,000.00	\$845,696.00	\$845,696.00	0.47%	1.255 1.213	\$97.45 \$779,608.00	(''''	0.41%	Aa3 AA
797412DL4	San Diego County Water Authority 0.593% 05/01/2024	11/24/2020 11/27/2020	\$1,000,000.00	\$1,003,490.00	\$1,003,490.00	0.49%	1.337 1.303	\$94.87 \$948,680.00	(+,,-	0.50%	Aa2 AAA
757696AQ2	Redondo Beach - Community Financing Authority, City of 0.741% 05/01/2024	7/2/2021 7/15/2021	\$1,435,000.00	\$1,435,000.00	\$1,435,000.00	0.74%	1.337 1.301	\$94.78 \$1,360,049.95		0.72%	AA
798153ND0	San Jose, City of 0.844% 06/01/2024	4/16/2021 4/20/2021	\$705,000.00	\$710,731.65	\$710,731.65	0.58%	1.422 1.383	\$94.53 \$666,415.35		0.35%	Aa2 AA
79773KBF0	San Francisco, City & County of 0.616% 06/15/2024	11/20/2020 12/8/2020	\$250,000.00	\$250,000.00	\$250,000.00	0.62%	1.460 1.422	\$94.06 \$235,137.50	(\$14,862.50)	0.12%	Aaa AAA

POSITION STATEMENT



CUSIP	Security Description	Trade Date/ Settlement Date	Par Value	Principal Cost/ Purchased Interest	Total Cost	Yield at Cost	Maturity/ Duration	Market Price/ Market Value	Unrealized Gain/ (Loss)	% of Assets	Moody's S&P Rating
119174AC4	Buena Park, City of 0.595% 07/01/2024	8/18/2021 8/31/2021	\$1,000,000.00	\$1,000,000.00	\$1,000,000.00	0.60%	1.504 1.461	\$93.92 \$939,230.00		0.49%	AA+
969268DF5	William S. Hart Union High School District 0.607% 08/01/2024	12/10/2020 12/23/2020	\$2,250,000.00	\$2,250,000.00	\$2,250,000.00	0.61%	1.589 1.544	\$93.76 \$2,109,600.00	('''')	1.11%	Aa2
798186N73	San Jose Unified School District 0.383% 08/01/2024	1/8/2021 1/20/2021	\$535,000.00	\$535,000.00	\$535,000.00	0.38%	1.589 1.549	\$93.83 \$501,974.45	(''''	0.26%	Aaa AA+
482124SN5	Jurupa Unified School District 0.625% 08/01/2024	4/13/2021 5/4/2021	\$500,000.00	\$500,000.00	\$500,000.00	0.63%	1.589 1.544	\$93.92 \$469,605.00	(,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	0.25%	Aa3
03667PHD7	Antelope Valley Community College District 0.545% 08/01/2024	8/11/2021 8/31/2021	\$225,000.00	\$225,000.00	\$225,000.00	0.55%	1.589 1.545	\$93.78 \$211,009.50	('''')	0.11%	Aa2 AA
20056XAA6	Commerce, City of 0.667% 08/01/2024	8/25/2021 8/31/2021	\$525,000.00	\$525,000.00	\$525,000.00	0.67%	1.589 1.542	\$93.62 \$491,526.00	(+,	0.26%	AA-
206849GM7	Conejo Valley Unified School District 0.702% 08/01/2024	9/1/2021 9/22/2021	\$200,000.00	\$200,000.00	\$200,000.00	0.70%	1.589 1.543	\$94.04 \$188,074.00	(''''	0.10%	Aa3
223047AC5	Covina, City of 0.738% 08/01/2024	10/6/2021 10/8/2021	\$1,000,000.00	\$999,490.00	\$999,490.00	0.76%	1.589 1.540	\$93.73 \$937,300.00		0.49%	AA
155105NM7	Central School District School Facilities Corporation 1.022% 08/01/2024	11/17/2021 12/9/2021	\$280,000.00	\$280,000.00	\$280,000.00	1.02%	1.589 1.547	\$96.26 \$269,533.60	\ ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' '	0.14%	Aa3 AA
802649TH6	Santa Rosa, City of 0.827% 09/01/2024	11/24/2020 12/1/2020	\$1,000,000.00	\$1,010,410.00	\$1,010,410.00	0.55%	1.674 1.623	\$93.83 \$938,310.00		0.49%	AA
21976THG0	Corona-Norco Unified School District 0.667% 09/01/2024	4/23/2021 5/13/2021	\$2,480,000.00	\$2,480,000.00	\$2,480,000.00	0.67%	1.674 1.623	\$93.14 \$2,309,896.80	(\$170,103.20)	1.22%	AA-
626905PP2	Murrieta Valley Unified School District 0.698% 09/01/2024	7/15/2021 7/28/2021	\$500,000.00	\$500,000.00	\$500,000.00	0.70%	1.674 1.626	\$93.79 \$468,970.00	('''')	0.25%	Aa2
797299MM3	San Diego, City of 1.450% 10/15/2024	4/12/2021 4/14/2021	\$900,000.00	\$921,672.00	\$921,672.00	0.75%	1.795 1.731	\$94.26 \$848,358.00		0.45%	AA-

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CUSIP	Security Description	Trade Date/ Settlement Date	Par Value	Principal Cost/ Purchased Interest	Total Cost	Yield at Cost	Maturity/ Duration	Market Price/ Market Value	Unrealized Gain/ (Loss)	% of Assets	Moody's/ S&P Rating
79771FAX5	San Francisco, City & County of 0.723% 11/01/2024	1/4/2021 1/6/2021	\$1,455,000.00	\$1,474,453.35	\$1,474,453.35	0.37%	1.841 1.791	\$93.63 \$1,362,345.60	(\$112,107.75)	0.72%	Aa2 AA-
649791RA0	New York, State of 0.910% 03/15/2025	4/19/2021 4/21/2021	\$1,000,000.00	\$1,007,440.00	\$1,007,440.00	0.72%	2.208 2.135	\$92.33 \$923,300.00		0.49%	Aa1 AA+
13063DGB8	California, State of 3.375% 04/01/2025	12/23/2020 12/28/2020	\$475,000.00	\$531,610.50	\$531,610.50	0.54%	2.255 2.124	\$97.57 \$463,438.50	(\$68,172.00)	0.24%	Aa2 AA-
797412DM2	San Diego County Water Authority 0.743% 05/01/2025	11/24/2020 11/27/2020	\$1,075,000.00	\$1,081,987.50	\$1,081,987.50	0.59%	2.337 2.263	\$91.36 \$982,098.50		0.52%	Aa2 AAA
68609TWD6	Oregon, State of 0.895% 05/01/2025	12/8/2020 12/10/2020	\$1,750,000.00	\$1,780,887.50	\$1,780,887.50	0.49%	2.337 2.262	\$92.15 \$1,612,555.00	(\$168,332.50)	0.85%	Aa1 AA+
91412HGE7	The Regents of the University of California 0.883% 05/15/2025	12/15/2020 12/17/2020	\$1,425,000.00	\$1,442,199.75	\$1,442,199.75	0.61%	2.375 2.298	\$91.76 \$1,307,622.75	(\$134,577.00)	0.69%	Aa2 AA
91412HGE7	The Regents of the University of California 0.883% 05/15/2025	12/21/2020 12/23/2020	\$1,355,000.00	\$1,372,736.95	\$1,372,736.95	0.58%	2.375 2.298	\$91.76 \$1,243,388.65	(\$129,348.30)	0.65%	Aa2 AA
91412HGE7	The Regents of the University of California 0.883% 05/15/2025	1/20/2021 1/22/2021	\$3,000,000.00	\$3,047,880.00	\$3,047,880.00	0.51%	2.375 2.298	\$91.76 \$2,752,890.00	(\$294,990.00)	1.45%	Aa2 AA
546417DQ6	State of Louisiana 0.840% 06/01/2025	8/24/2021 8/26/2021	\$400,000.00	\$401,512.00	\$401,512.00	0.74%	2.422 2.347	\$91.91 \$367,656.00	(\$33,856.00)	0.19%	Aa2 AA-
79773KBG8	San Francisco, City & County of 0.766% 06/15/2025	11/20/2020 12/8/2020	\$200,000.00	\$200,000.00	\$200,000.00	0.77%	2.460 2.384	\$91.07 \$182,140.00	(\$17,860.00)	0.10%	Aaa AAA
574193TR9	Maryland, State of 0.660% 08/01/2025	11/18/2020 11/20/2020	\$3,000,000.00	\$3,014,580.00	\$3,014,580.00	0.56%	2.589 2.505	\$90.76 \$2,722,800.00	(\$291,780.00)	1.43%	Aaa AAA
56781RJJ7	Marin Community College District 5.000% 08/01/2025	11/25/2020 11/30/2020	\$2,280,000.00	\$2,742,270.00	\$2,742,270.00	0.59%	2.589 2.357	\$100.85 \$2,299,311.60	(\$442,958.40)	1.21%	Aaa AAA
969268DG3	William S. Hart Union High School District 0.757% 08/01/2025	12/10/2020 12/23/2020	\$1,000,000.00	\$1,000,000.00	\$1,000,000.00	0.76%	2.589 2.496	\$90.11 \$901,110.00	(\$98,890.00)	0.47%	Aa2

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CUSIP	Security Description	Trade Date/ Settlement Date	Par Value	Principal Cost/ Purchased Interest	Total Cost	Yield at Cost	Maturity/ Duration	Market Price/ Market Value	Unrealized Gain/ (Loss)	% of Assets	Moody's/ S&P Rating
798186N81	San Jose Unified School District 0.558% 08/01/2025	1/8/2021 1/20/2021	\$1,000,000.00	\$1,000,000.00	\$1,000,000.00	0.56%	2.589 2.508	\$90.42 \$904,240.00	(''')	0.48%	Aaa AA+
482124SP0	Jurupa Unified School District 1.059% 08/01/2025	5/27/2021 6/1/2021	\$500,000.00	\$504,265.00	\$504,265.00	0.85%	2.589 2.487	\$91.15 \$455,740.00	\'.',	0.24%	Aa3
03667PHE5	Antelope Valley Community College District 0.866% 08/01/2025	8/11/2021 8/31/2021	\$170,000.00	\$170,000.00	\$170,000.00	0.87%	2.589 2.494	\$90.73 \$154,247.80	(\$15,752.20)	0.08%	Aa2 AA
206849GN5	Conejo Valley Unified School District 0.974% 08/01/2025	9/1/2021 9/22/2021	\$205,000.00	\$205,000.00	\$205,000.00	0.97%	2.589 2.490	\$90.94 \$186,435.20	(''')	0.10%	Aa3
802649TJ2	Santa Rosa, City of 0.977% 09/01/2025	11/24/2020 12/1/2020	\$1,530,000.00	\$1,554,357.60	\$1,554,357.60	0.64%	2.674 2.572	\$90.52 \$1,384,940.70	(\$169,416.90)	0.73%	AA
50420BDE9	La Quinta, City of 1.168% 09/01/2025	4/8/2021 4/14/2021	\$2,000,000.00	\$2,022,960.00	\$2,022,960.00	0.90%	2.674 2.561	\$90.45 \$1,809,040.00	(\$213,920.00)	0.95%	AA-
419792ZL3	Hawaii, State of 0.852% 10/01/2025	11/19/2020 11/23/2020	\$5,000,000.00	\$5,052,250.00	\$5,052,250.00	0.63%	2.756 2.660	\$90.54 \$4,526,900.00	(\$525,350.00)	2.38%	Aa2 AA+
13034AL65	California Infrastructure and Economic Development Bank 0.765% 10/01/2025	12/8/2020 12/17/2020	\$1,000,000.00	\$1,007,250.00	\$1,007,250.00	0.61%	2.756 2.663	\$90.22 \$902,200.00	(\$105,050.00)	0.48%	AAA
21969AAE2	Corona, City of 1.361% 05/01/2026	9/30/2021 10/14/2021	\$860,000.00	\$860,000.00	\$860,000.00	1.36%	3.337 3.178	\$88.95 \$764,987.20		0.40%	AA+
21969AAE2	Corona, City of 1.361% 05/01/2026	10/5/2021 10/14/2021	\$1,065,000.00	\$1,071,336.75	\$1,071,336.75	1.23%	3.337 3.178	\$88.95 \$947,338.80	(\$123,997.95)	0.50%	AA+
20772KNX3	Connecticut, State of 1.123% 06/01/2026	6/4/2021 6/9/2021	\$2,200,000.00	\$2,213,090.00	\$2,213,090.00	1.00%	3.422 3.279	\$88.93 \$1,956,394.00	(\$256,696.00)	1.03%	Aa3 AA-
80182AAE9	Santa Cruz, County of 1.024% 06/01/2026	9/21/2021 9/23/2021	\$1,060,000.00	\$1,060,763.20	\$1,060,763.20	1.01%	3.422 3.284	\$88.65 \$939,700.60	(\$121,062.60)	0.49%	AAA
80182AAE9	Santa Cruz, County of 1.024% 06/01/2026	9/28/2021 9/30/2021	\$1,075,000.00	\$1,071,237.50	\$1,071,237.50	1.10%	3.422 3.284	\$88.65 \$952,998.25	(\$118,239.25)	0.50%	AAA
696735QQ5	Palmdale School District 1.071% 08/01/2026	8/6/2021 9/2/2021	\$250,000.00	\$250,000.00	\$250,000.00	1.07%	3.589 3.422	\$87.81 \$219,525.00	(\$30,475.00)	0.12%	Aa3

POSITION STATEMENT



CUSIP	Security Description	Trade Date/ Settlement Date	Par Value	Principal Cost/ Purchased Interest	Total Cost	Yield at Cost	Maturity/ Duration	Market Price/ Market Value	Unrealized Gain/ (Loss)	% of Assets	Moody's/ S&P Rating
20056XAC2	Commerce, City of 1.212% 08/01/2026	8/25/2021 8/31/2021	\$525,000.00	\$525,000.00	\$525,000.00	1.21%	3.589 3.407	\$87.52 \$459,464.25		0.24%	AA-
	SubTotal		\$59,055,000.00	\$59,957,521.25	\$59,957,521.25	0.65%		\$54,826,022.10	(\$5,131,499.15)	28.88%	
Municipal No	te										
91412HJL8	The Regents of the University of California 0.670% 05/15/2025	2/24/2021 3/10/2021	\$1,500,000.00	\$1,500,000.00	\$1,500,000.00	0.67%	2.375 2.303	\$91.17 \$1,367,475.00	(\$132,525.00)	0.72%	Aa2 AA
	SubTotal		\$1,500,000.00	\$1,500,000.00	\$1,500,000.00	0.67%		\$1,367,475.00	(\$132,525.00)	0.72%	
Negotiable C	ertificate of Deposit										
90348JS76	UBS Bank USA 0.350% 09/11/2023	8/31/2021 9/9/2021	\$249,000.00	\$248,626.50	\$248,626.50	0.43%	0.699 0.684	\$97.11 \$241,806.39	(\$6,820.11)	0.13%	
856285XE6	State Bank of India 0.400% 09/18/2023	9/17/2021 9/21/2021	\$249,000.00	\$248,738.55	\$248,738.55	0.45%	0.718 0.703	\$97.10 \$241,779.00	(, , , , , , , , , , , , , , , , , , ,	0.13%	
87165HC32	Synchrony Bank 0.550% 09/03/2024	8/31/2021 9/3/2021	\$249,000.00	\$248,253.00	\$248,253.00	0.65%	1.679 1.634	\$93.51 \$232,829.94	(\$15,423.06)	0.12%	
89235MLN9	Toyota Financial Savings Bank 0.650% 09/09/2024	8/31/2021 9/9/2021	\$249,000.00	\$248,377.50	\$248,377.50	0.73%	1.696 1.648	\$93.61 \$233,078.94	(\$15,298.56)	0.12%	
649447VM8	Flagstar Bank, National Association. 0.650% 09/10/2024	8/30/2021 9/10/2021	\$249,000.00	\$248,564.25	\$248,564.25	0.71%	1.699 1.651	\$93.60 \$233,054.04	(\$15,510.21)	0.12%	
05580AE67	BMW Bank of North America 0.650% 10/08/2024	9/30/2021 10/8/2021	\$249,000.00	\$248,315.25	\$248,315.25	0.74%	1.775 1.726	\$93.31 \$232,344.39	(\$15,970.86)	0.12%	
7954507A7	Sallie Mae Bank 1.000% 07/14/2026	7/14/2021 7/16/2021	\$248,000.00	\$246,760.00	\$246,760.00	1.10%	3.540 3.383	\$88.46 \$219,375.84	(\$27,384.16)	0.12%	
38149MZJ5	Goldman Sachs Bank USA Holdings LLC 1.050% 09/08/2026	8/31/2021 9/8/2021	\$249,000.00	\$247,879.50	\$247,879.50	1.14%	3.693 3.529	\$88.18 \$219,575.67	(\$28,303.83)	0.12%	
	SubTotal		\$1,991,000.00	\$1,985,514.55	\$1,985,514.55	0.74%		\$1,853,844.21	(\$131,670.34)	0.98%	

POSITION STATEMENT



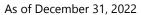
CUSIP	Security Description	Trade Date/ Settlement Date	Par Value	Principal Cost/ Purchased Interest	Total Cost	Yield at Cost	Maturity/ Duration	Market Price/ Market Value	Unrealized Gain/ (Loss)	% of Assets	Moody's/ S&P Rating
Supranationa	ı										
45818WDD5	IADB 0.39% 04/16/2024	4/8/2021 4/16/2021	\$3,000,000.00	\$3,000,270.00	\$3,000,270.00	0.39%	1.296 1.265	\$94.72 \$2,841,480.00	(\$158,790.00)	1.50%	Aaa AA+
459058JA2	IBRD 0.750% 03/11/2025	3/4/2021 3/9/2021	\$3,150,000.00	\$3,167,671.50	\$3,167,671.50	0.61%	2.197 2.130	\$92.46 \$2,912,584.50	(\$255,087.00)	1.53%	Aaa AA+
459058JL8	IBRD 0.500% 10/28/2025	2/3/2021 2/8/2021	\$5,000,000.00	\$4,994,200.00	\$4,994,200.00	0.52%	2.830 2.749	\$89.95 \$4,497,650.00	(\$496,550.00)	2.37%	Aaa AA+
459058JS3	IBRD 0.650% 02/10/2026	5/27/2021 6/1/2021	\$2,000,000.00	\$1,981,720.00	\$1,981,720.00	0.85%	3.118 2.996	\$86.92 \$1,738,400.00	(\$243,320.00)	0.92%	Aaa AA+
45950VPU4	IFC 0.75% 03/23/2026	3/4/2021 3/23/2021	\$2,000,000.00	\$1,994,880.00	\$1,994,880.00	0.80%	3.230 3.175	\$89.17 \$1,783,420.00	(\$211,460.00)	0.94%	Aaa AA+
	SubTotal		\$15,150,000.00	\$15,138,741.50	\$15,138,741.50	0.59%		\$13,773,534.50	(\$1,365,207.00)	7.26%	
U.S. Treasury	Note										
91282CCP4	UST 0.625% 07/31/2026	9/23/2021 9/24/2021	\$2,500,000.00	\$2,462,792.97	\$2,462,792.97	0.94%	3.586 3.463	\$88.47 \$2,211,725.00	(\$251,067.97)	1.17%	Aaa AA+
91282CCW9	UST 0.750% 08/31/2026	9/23/2021 9/24/2021	\$2,500,000.00	\$2,481,054.69	\$2,481,054.69	0.91%	3.671 3.537	\$88.68 \$2,217,100.00	(\$263,954.69)	1.17%	Aaa AA+
91282CCZ2	UST 0.875% 09/30/2026	9/28/2021 9/30/2021	\$2,950,000.00	\$2,930,525.39	\$2,930,525.39	1.01%	3.753 3.610	\$88.95 \$2,624,113.50	(\$306,411.89)	1.38%	Aaa AA+
	SubTotal		\$7,950,000.00	\$7,874,373.05	\$7,874,373.05	0.96%		\$7,052,938.50	(\$821,434.55)	3.72%	
Grand Total			\$204,087,740.39	\$204,360,322.38 \$4,081.25	\$204,364,403.63	1.30%		\$189,843,024.70	(\$14,517,297.68)	100.00%	

TRANSACTION STATEMENT



Transaction Type	Trade Date	Settlement Date	CUSIP	Security Description	Par Value	Principal Amount	Purchased Interest	Total Cost	Yield at Cost
Purchase									
Purchase	10/11/2022	10/11/2022	46640QTC5	J.P. Morgan Securities LLC 06/12/2023	2,700,000.00	2,615,454.00		2,615,454.00	4.77%
Purchase	10/26/2022	10/31/2022	17330Y4T4	Citigroup Global Markets Holdings Inc. 5.500% 10/31/2023	2,700,000.00	2,700,000.00		2,700,000.00	5.50%
Purchase	11/9/2022	11/9/2022	7426M3NW5	Private Export Funding Corporation 01/30/2023	1,100,000.00	1,089,551.83		1,089,551.83	4.21%
Purchase	11/14/2022	11/14/2022	69372BPE4	PACCAR Financial Corp. 02/14/2023	1,100,000.00	1,087,912.22		1,087,912.22	4.35%
Purchase	11/14/2022	11/15/2022	912796YY9	UST 12/13/2022	1,000,000.00	997,209.72		997,209.72	3.65%
Purchase	12/12/2022	12/13/2022	21687BVE8	Cooperatieve Rabobank U.A. 08/14/2023	1,240,000.00	1,197,305.42		1,197,305.42	5.26%
Purchase	12/20/2022	12/21/2022	3130ATUS4	FHLB 4.250% 12/10/2027	700,000.00	710,829.00	3,884.03	714,713.03	3.90%
Total					10,540,000.00	10,398,262.19	3,884.03	10,402,146.22	

TRANSACTION STATEMENT





Transaction Type	Trade Date	Settlement Date	CUSIP	Security Description	Par Value	Principal Cost	Total Proceeds	Realized Gain/Loss
Maturity								
Maturity	10/3/2022	10/3/2022	2254EBK34	Credit Suisse AG 10/03/2022	2,500,000.00	2,490,099.31	2,500,000.00	9,900.69
Maturity	10/17/2022	10/17/2022	13607FKH8	Canadian Imperial Holdings Inc. 10/17/2022	550,000.00	547,472.52	550,000.00	2,527.48
Maturity	11/1/2022	11/1/2022	06366HL13	Bank of Montreal 11/01/2022	3,000,000.00	2,982,045.00	3,000,000.00	17,955.00
Maturity	11/8/2022	11/8/2022	53948BL80	Lloyds Bank Corporate Markets PLC 11/08/2022	2,200,000.00	2,181,520.00	2,200,000.00	18,480.00
Maturity	12/13/2022	12/13/2022	912796YY9	UST 12/13/2022	1,000,000.00	997,209.72	1,000,000.00	2,790.28
Maturity	12/16/2022	12/16/2022	46640QMG3	J.P. Morgan Securities LLC 12/16/2022	705,000.00	696,077.84	705,000.00	8,922.16
Total					9,955,000.00	9,894,424.39	9,955,000.00	60,575.61
Sell								
Sell	10/28/2022	10/31/2022	62479MMT7	MUFG Bank, Ltd. 229.6% 12/27/2022	2,000,000.00	1,978,666.66	1,987,016.67	8,350.01
Total					2,000,000.00	1,978,666.66	1,987,016.67	8,350.01

Transaction Type	Payment Date	Settlement Date	CUSIP	Security Description	Interest Received
Interest/Dividends					
Interest/Dividends	10/3/2022	10/3/2022	072024WP3	Bay Area Toll Authority 2.254% 04/01/2024	9,016.00
Interest/Dividends	10/3/2022	10/3/2022	13063DGB8	California, State of 3.375% 04/01/2025	8,015.63
Interest/Dividends	10/3/2022	10/3/2022	13034AL65	California Infrastructure and Economic Development Bank 0.765% 10/01/2025	3,825.00
Interest/Dividends	10/3/2022	10/3/2022	419792ZL3	Hawaii, State of 0.852% 10/01/2025	21,300.00
Interest/Dividends	10/3/2022	10/3/2022	31846V567	First American Funds, Inc.	480.54

TRANSACTION STATEMENT



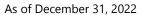
10/5/2022 2 10/11/2022 2 10/11/2022 2 10/13/2022 2 10/17/2022	3133EMLV2 05580AE67 90348JS76 023135CF1 45818WDD5	FFCB 0.270% 04/05/2024 BMW Bank of North America 0.650% 10/08/2024 UBS Bank USA 0.350% 09/11/2023 Amazon.com, Inc. 3.300% 04/13/2027	6,750.00 811.47 71.63 33,000.00
2 10/11/2022 2 10/13/2022 2 10/17/2022	90348JS76 023135CF1	UBS Bank USA 0.350% 09/11/2023 Amazon.com, Inc. 3.300% 04/13/2027	71.63
2 10/13/2022 2 10/17/2022	023135CF1	Amazon.com, Inc. 3.300% 04/13/2027	
2 10/17/2022			33,000.00
	45818WDD5	IADD 0 2007 04/40/2024	
		IADB 0.39% 04/16/2024	5,850.00
2 10/17/2022	797299MM3	San Diego, City of 1.450% 10/15/2024	6,525.00
2 10/20/2022	17330PSX8	Citigroup Global Markets Holdings Inc. 3.750% 07/20/2023	6,093.75
2 10/21/2022	3133EMDZ2	FFCB 0.520% 10/21/2025	13,000.00
2 10/28/2022	3135GA2A8	FNMA 0.580% 10/28/2025	14,500.00
2 10/28/2022	459058JL8	IBRD 0.500% 10/28/2025	12,500.00
11/1/2022	797412DM2	San Diego County Water Authority 0.743% 05/01/2025	3,993.63
11/1/2022	797412DL4	San Diego County Water Authority 0.593% 05/01/2024	2,965.00
11/1/2022	68609TWD6	Oregon, State of 0.895% 05/01/2025	7,831.25
11/1/2022	79771FAX5	San Francisco, City & County of 0.723% 11/01/2024	5,259.83
11/1/2022	757696AP4	Redondo Beach - Community Financing Authority, City of 0.415% 05/01/2023	1,763.75
11/1/2022	757696AQ2	Redondo Beach - Community Financing Authority, City of	5,316.68
11/1/2022	21969AAE2	Corona, City of 1.361% 05/01/2026	13,099.63
11/1/2022	31846V567	First American Funds, Inc.	2,508.75
11/9/2022	90348JS76	UBS Bank USA 0.350% 09/11/2023	74.02
	2 10/21/2022 2 10/28/2022 2 10/28/2022 2 11/1/2022 2 11/1/2022 3 11/1/2022 4 11/1/2022 4 11/1/2022 5 11/1/2022 6 11/1/2022	10/20/2022 17330PSX8 2 10/21/2022 3133EMDZ2 2 10/28/2022 3135GA2A8 2 10/28/2022 459058JL8 2 11/1/2022 797412DM2 2 11/1/2022 797412DL4 3 11/1/2022 79771FAX5 4 11/1/2022 757696AP4 5 11/1/2022 757696AQ2 6 11/1/2022 31846V567	10/20/2022 17330PSX8 Citigroup Global Markets Holdings Inc. 3.750% 07/20/2023 10/21/2022 3133EMDZ2 FFCB 0.520% 10/21/2025 10/28/2022 3135GA2A8 FNMA 0.580% 10/28/2025 10/28/2022 459058JL8 IBRD 0.500% 10/28/2025 11/11/2022 797412DM2 San Diego County Water Authority 0.743% 05/01/2025 11/11/2022 797412DL4 San Diego County Water Authority 0.593% 05/01/2024 11/11/2022 68609TWD6 Oregon, State of 0.895% 05/01/2025 11/11/2022 79771FAX5 San Francisco, City & County of 0.723% 11/01/2024 11/11/2022 757696AP4 Redondo Beach - Community Financing Authority, City of 0.415% 05/01/2023 11/11/2022 757696AQ2 Redondo Beach - Community Financing Authority, City of 0.741% 05/01/2024 11/11/2022 21969AAE2 Corona, City of 1.361% 05/01/2026

TRANSACTION STATEMENT



Transaction Type	Payment Date	Settlement Date	CUSIP	Security Description	Interest Received
Interest/Dividends	11/14/2022	11/14/2022	023135BW5	Amazon.com, Inc. 0.450% 05/12/2024	4,500.00
Interest/Dividends	11/15/2022	11/15/2022	91412HGE7	The Regents of the University of California 0.883% 05/15/2025	25,518.70
Interest/Dividends	11/15/2022	11/15/2022	91412HJL8	The Regents of the University of California 0.670% 05/15/2025	5,025.00
Interest/Dividends	11/18/2022	11/18/2022	3135G06E8	FNMA 0.420% 11/18/2024	10,500.00
Interest/Dividends	11/21/2022	11/21/2022	17330PSX8	Citigroup Global Markets Holdings Inc. 3.750% 07/20/2023	6,093.75
Interest/Dividends	11/25/2022	11/25/2022	3134GXDZ4	FMCC 0.450% 11/25/2024	6,750.00
Interest/Dividends	11/25/2022	11/25/2022	3133ENEX4	FFCB 0.550% 11/24/2023	5,500.00
Interest/Dividends	11/28/2022	11/28/2022	3134GXFA7	FMCC 0.650% 11/26/2025	9,750.00
Interest/Dividends	11/30/2022	11/30/2022	3134GXCV4	FMCC 0.500% 05/30/2025	12,500.00
Interest/Dividends	12/1/2022	12/1/2022	798153ND0	San Jose, City of 0.844% 06/01/2024	2,975.10
Interest/Dividends	12/1/2022	12/1/2022	20772KNX3	Connecticut, State of 1.123% 06/01/2026	12,353.00
Interest/Dividends	12/1/2022	12/1/2022	546417DQ6	State of Louisiana 0.840% 06/01/2025	1,680.00
Interest/Dividends	12/1/2022	12/1/2022	80182AAE9	Santa Cruz, County of 1.024% 06/01/2026	10,931.20
Interest/Dividends	12/1/2022	12/1/2022	38122NA51	Golden State Tobacco Securitization Corporation 0.672% 06/01/2023	7,728.00
Interest/Dividends	12/1/2022	12/1/2022	31846V567	First American Funds, Inc.	3,832.89
Interest/Dividends	12/7/2022	12/7/2022	06406RAP2	The Bank of New York Mellon Corporation 0.350% 12/07/2023	2,100.00
Interest/Dividends	12/9/2022	12/9/2022	90348JS76	UBS Bank USA 0.350% 09/11/2023	71.63
Interest/Dividends	12/14/2022	12/14/2022	89236TJG1	Toyota Motor Credit Corporation 0.500% 06/14/2024	3,750.00
Interest/Dividends	12/15/2022	12/15/2022	79773KBF0	San Francisco, City & County of 0.616% 06/15/2024	770.00

TRANSACTION STATEMENT





Transaction Type	Payment Date	Settlement Date	CUSIP	Security Description	Interest Received
Interest/Dividends	12/15/2022	12/15/2022	79773KBG8	San Francisco, City & County of 0.766% 06/15/2025	766.00
Interest/Dividends	12/19/2022	12/19/2022	3134GXFV1	FMCC 0.625% 12/17/2025	7,812.50
Interest/Dividends	12/20/2022	12/20/2022	17330PSX8	Citigroup Global Markets Holdings Inc. 3.750% 07/20/2023	6,093.75
Interest/Dividends	12/21/2022	12/21/2022	31846V567	First American Funds, Inc.	0.76
Interest/Dividends	12/21/2022	12/21/2022	31846V567	First American Funds, Inc.	0.13
Interest/Dividends	12/30/2022	12/30/2022	3135G06Q1	FNMA 0.640% 12/30/2025	9,600.00
Total					341,153.97

TRANSACTION STATEMENT



As of December 31, 2022				
Transaction Type	Trade Date	Settlement Date	Transaction Description	Amount
Custodian Fee				
Custodian Fee	10/25/2022	10/25/2022	Cash Out	(1,544.64)
Custodian Fee	11/28/2022	11/28/2022	Cash Out	(1,532.53)
Custodian Fee	12/27/2022	12/27/2022	Cash Out	(1,523.70)
Total				(4,600.87)
Management Fee				
Management Fee	10/17/2022	10/17/2022	Cash Out	(5,500.00)
Management Fee	11/18/2022	11/18/2022	Cash Out	(5,500.00)
Management Fee	12/28/2022	12/28/2022	Cash Out	(5,500.00)
Total				(16,500.00)
Withdrawal				
Withdrawai				
Withdrawal	11/9/2022	11/9/2022	Cash Out	(2,000,000.00)
Total				(2,000,000.00)

Town of Paradise



Council Agenda Summary

Date: February 14, 2023

Agenda Item: 6(a)

ORIGINATED BY: Colette Curtis, Recovery and Economic

Development Director

REVIEWED BY: Kevin Phillips, Town Manager

SUBJECT: Federal Advocacy Platform Update

LONG TERM Yes

RECOVERY PLAN:

COUNCIL ACTION REQUESTED:

1. Review the updated Federal Advocacy Platform and provide comments to staff.

Background:

On December 8, 2020, Town Council approved a Federal Advocacy Platform which documented recovery successes, immediate needs, as well as long term needs and policy considerations. This document has been utilized by Council and staff in our legislative advocacy for funding and other policy needs during recovery from the 2018 Camp Fire.

Analysis:

The Federal Advocacy Platform should be updated regularly to ensure the platform remains current for use by Council and Staff. Two years after the first platform was approved, it is time to update the document with our successes to date as well as current short- and long-term needs. The attached platform includes the achievements in recovery over the last two years, as well as the existing needs to address the barriers our community faces.

Financial Impact:

This item has no impact to the general fund. The platform was drafted by Town staff and by the Ferguson Group through the Town's existing contract.

Attachments: Updated Federal Advocacy Platform



TOWN OF PARADISE, CA

2023 FEDERAL PLATFORM AND PRIORITIES



On November 8, 2018, the Camp Fire left the Town of Paradise largely destroyed,

forever changing the future of the community. The Town is focused on rebuilding the community into a safer, stronger, and more resilient Town. The federal government has been crucial to the Town's recovery thus far and will continue to play a key role as Paradise rebuilds for the future. The Town's 2023 Federal Platform and Priorities highlights the successes of the Town's partnership with the federal government and outlines how this partnership can be used to address the critical recovery needs that remain.

TOWN OF PARADISE



THE TOWN

- Incorporated on November 27, 1979
- Located in Butte County, CA
- Home of the longest running harvest festival in California



THE PEOPLE

- 9,000 residents (2022)
- 26,218 residents (pre-Camp Fire)
- 4,600 Daytime Population



THE COMMUNITY

- 35% growth since the Camp Fire
- 350+ businesses
- Changing from retirement community to young families

Greg Bolin

Mayor

Rose Tryon

Vice Mayor

Steve Crowder

Councilmember

Steve "Woody" Culleton

Councilmember

Ron Lassonde

Councilmember

Kevin Phillips

Town Manager

Paradise Town Hall 5555 Skyway Paradise, CA 95969 (530) 872-6291

www.townofparadise.com



INFRASTRUCTURE NEEDS

SEWER SYSTEM



Secure funding to support the construction of the Paradise Sewer Project, unlocking the missing piece of the Town's affordable housing and economic recoveries.

For a number of years, the Town has pursued a municipal solution for wastewater treatment to address failed septic systems that have degraded local groundwater quality and constrained affordable housing, essential community services, and related economic growth. Reliance on septic systems has resulted in two areas of concern: environmental impacts and economic impediment. Failed septic systems release untreated wastewater into groundwater or at the ground surface, resulting in environmental degradation and public health risk due to water contamination or exposure to untreated wastewater. Economically, the lack of a sewer system has suppressed the development of a sustainable business community by limiting the size and types of businesses that can affordably operate in the community. Development of affordable housing and workforce housing also has been hindered as larger housing facilities require more sewer treatment capacity than a traditional septic system can provide within the available parcel sizes. As a result of these concerns, the Town worked diligently for more than 50 years, even prior to its incorporation in 1979, to identify a feasible wastewater treatment solution for the community, with a priority to provide service to those commercial and densely populated residential areas with failed and failing septic systems.

Prior to the 2018 Camp Fire, the Town struggled to support a thriving economy, in part due to the lack of sewer availability. Conditions since the 2018 Camp Fire are amplified with even fewer businesses able to open or reopen due to septic failures or required upgrades that are cost prohibitive. Commercial parcels in Town are generally small in size and concentrated in a core commercial area that provides limited space for septic tanks and leach fields. These restrictions are compounded by siting restrictions such as high groundwater and poor drainage due to the local soil composition. As a result, existing Town businesses have been severely constrained due to their septic system discharge exceeding the available capacity of the land itself, while new businesses are often forced to open elsewhere due to the limitations placed on them to operate with an on-site septic system. Three primary objectives and associated goals drove the development of the Proposed Project:

- Provide long-term, efficient, reliable treatment of wastewater in a cost-effective, environmentally beneficial manner to current and returning Town residents, in a manner acceptable to the RWQCB and other permitting agencies:
 - Accommodate regrowth while reducing further environmental degradation of groundwater and surface water from failing septic systems
 - Reduce the public health risk associated with failing septic systems.
- Generate economic recovery by eliminating septic-related capacity limitations, as well as the general burden of on-site wastewater management for businesses:
 - Promote the return or arrival of essential community services and businesses by removing restrictions caused by on-site septic systems.
- Provide for the ability to construct and maintain affordable housing, specifically multifamily housing:

 Support centralizing affordable higher-density housing to Paradise's urban core, along major evacuation routes.

The Town of Paradise has a certified Final Programmatic Environmental Impact report to construct both the core collection system and export pipeline to the City of Chico's existing Water Pollution Control Plant, about 18 miles east of Paradise. Utilizing a regional approach is the most cost effective and feasible solution for the project.

The Town anticipates a funding shortfall of about \$48M after other funding programs have been secured.



EVACUATION INFRASTRUCTURE

Seek additional funding opportunities for the improved resiliency of critical evacuation routes within Paradise as well as those arterial roads that provide access to and from the Town.

The Town of Paradise is situated along a ridge, constrained by two canyons, presenting limited circulation and evacuation routes. Accordingly, the 2018 Camp Fire demonstrated this constraint with long delays due to local and regional constraints. In the Town's recovery, the Town of Paradise utilized an Economic Development Administration grant to complete the 2022 Transportation Master Plan. This plan, guided by the Town's original 2019 Long Term Recovery Plan, aimed to organize public input, identify critical projects and position the Town to secure additional funding for implementation.

As a result, 48 unique evacuation route projects were identified with an unmet funding need over \$625M. These projects would increase capacity on existing roadways, connect new roadways for improved circulation, address dead-end roads and create an interconnected multi-use path system which can double as emergency evacuation assets. With these projects fully vetted and studied in the Transportation Master Plan, the Town's overall unmet needs were submitted for consideration in the 2018 California Wildfires (DR-4407) Community Development Block Grant Disaster Recovery (CDBG-DR) Infrastructure Program. These overall

funds are appropriated by Congress to the United States Department of Housing and Urban Development (HUD) and administered by California Housing & Community Development (HCD). Recognizing unmet infrastructure recovery needs, HCD allocated \$317,428,488 of the CDBG-DR funding to the Disaster Recovery Infrastructure Program (DR-Infrastructure). DR-Infrastructure projects are funded to assist with meeting the unmet infrastructure needs of local communities. Of this total allocation, the Town of Paradise has been awarded \$199.5M towards eligible infrastructure projects, including unfunded disaster recovery match requirements such as FEMA Public Assistance and Hazard Mitigation Grant Program Projects.

While the CDBG-DR allocation will be instrumental in making progress towards a safer community, over \$320M in critical evacuation infrastructure projects remain unfunded.

Concurrently, the Town of Paradise plans to submit our Roe Road Extension Phase 2 Project to the United States Department of Transportation's (USDOT) 2023 Rebuilding American Infrastructure with Sustainability and Equity (RAISE) competitive grant program. This project is vital to our recovery and serves an Area of Persistent Poverty or Historically Disadvantaged Communities pursuant to the program guidelines.

The Town is requesting \$8 million in RAISE funding for the Project Approval and Environmental Document, as well as for Plans, Specifications, and Estimates for the Project. The Project will construct a new 1-mile three-lane roadway extending from South Libby Road to Clark Road/State Route 191, and will include a Class I multi-use pathway that also serves as emergency vehicle access, Americans with Disabilities Act curb ramps, and storm drainage infrastructure. This Project is part of a larger effort to construct a new east-west roadway between Skyway and Pentz Road to improve circulation and connectivity throughout the Town, provide alternative ingress/egress routes for residential neighborhoods, and provide additional evacuation capacity during disaster events. Doing so will improve safety, environmental sustainability, quality of life, and mobility in the Town, as well as increase the area's resiliency toward future emergencies and climate induced events.

STORMWATER AND DRAINAGE SYSTEM



Secure funding opportunities to upgrade and redevelop the current stormwater and drainage system in Paradise.

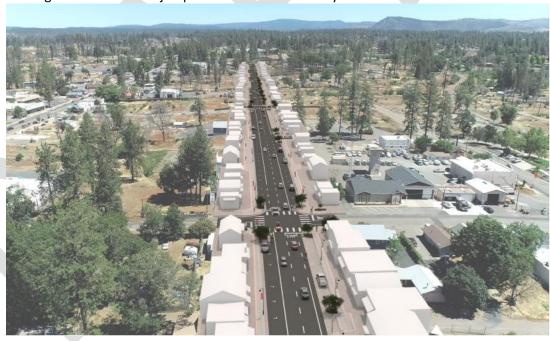
As the community of Paradise continues to rebuild, providing for adequate stormwater and drainage will be critical to the redevelopment processes. Sustainable stormwater and drainage investments would decrease the quantity of runoff and improve the quality of water. A study has been completed to assess the condition of the Town's storm drain system as well as critical needs and priorities. The 2022 Storm Drain Master Plan identifies over \$25M in unfunded projects necessary to support a multi-hazard hardened community recovery.

ECONOMIC RECOVERY NEEDS

ECONOMIC DEVELOPMENT STRATEGY

Pursue funding through the Economic Development Agency (EDA) for an Economic Development Strategy Document to jump start economic recovery.

The Town of Paradise experienced severe economic damage and financial instability as a result of the Camp Fire and seeks to develop an economic strategy for recovery. A regional and commercial market study have been completed, and now Paradise needs a strategy document to analyze this data and make recommendations for action to rebuild a sustainable economy. The goals of this strategy document will be to support the current construction economy, prioritize steps to recruit and attract businesses, and identify funding and incentives to jump start economic recovery.



WORKFORCE DEVELOPMENT

Secure funding through CDBG DR Workforce Development and other sources for a Workforce Training Center and other programs.

The Camp Fire resulted in a loss of jobs and businesses for many in Paradise, while at the same time creating the need for a strong construction-related workforce to rebuild the community. CDBG DR Workforce Development funding has been allocated to Butte County in the amount of \$18.7 Million. The Town of Paradise is working on a project that will include a construction trades training center, including a training program for 3D printing technology to print homes using concrete. This innovative center will focus on training the

next generation of workforce utilizing traditional and cutting-edge technology for a resilient future. The Town intends to submit an Notice of Intent for this project once the application period for the CDBG DR Workforce Development funding opens. It is anticipated additional funding will be needed for this and other related workforce development projects within the community.

DIRECT BUSINESS ASSISTANCE AND INCENTIVES



Secure funding for businesses affected by the disaster to re-open in the community as well as incentives to new businesses investing in Paradise.

Paradise businesses were devastated by the Camp Fire, first through the physical loss of structures, and then through the loss of their customers as the population of Paradise went from over 26,000 to just over 4,000 overnight. Those businesses that were able to reopen in the four years since the fire have struggled to remain solvent with the smaller



population, in addition to complications caused by the COVID 19 Pandemic. Many businesses closed by the fire have been unable to reopen as their owners deal with the personal and financial ramifications of the fire, as well as complicated and protracted insurance issues. In addition, businesses that may have otherwise been interested in opening in Paradise have been dissuaded by the drop in population and some of the infrastructure barriers that are part of a fire-impacted community.

The Town of Paradise is looking for funding to provide to businesses, that were affected by the fire to help them remain open, to help those who have been unable reopen do so, and to incentivize new businesses to invest in Paradise.

HOUSING AND TRANSIT NEEDS

HOUSING DEVELOPMENT

Support funding for the rebuilding of all types of housing in the Town.

The majority of housing that existed in Paradise pre-fire was older, single-family homes, duplexes and mobile homes, both in parks and on private land. The fire destroyed 90% of the Town's housing stock and replacement costs are currently so high that homeowners and landlords are unable to rebuild their units. Paradise needs more housing of all types, including affordable multifamily housing. The lack of a sewer system has been a major barrier to this type of housing in the past, however with the current sewer project underway, affordable multifamily housing is achievable.



Currently, CDBG-DR funds are being utilized to rebuild single-family and multifamily housing, however the need is greater than the current funding available. Funding for workforce housing (80%-120% AMI) is also greatly needed, for reconstruction and first-time homebuyer. In addition, more funding toward local Community Development Financial Institutions (CDFIs), housing trusts and land trusts would assist considerably with our ability to create programs (such as first-time homebuilders, contractor loan programs, etc.) to rebuild all types of housing lost to in the disaster.

PUBLIC TRANSPORTATION

Support funding for Butte County Association of Governments to explore and expand additional transit needs in Paradise.

The Town of Paradise is working with the Butte County Association of Governments to plan for the future of public transportation in Paradise to include:

- Continue exploring unmet transit needs in Paradise along corridors that service and provide increased access to employment, housing, and education.
- Expanding paratransit services to meet the needs of our population accessing medical and essential community services within the boundaries of Butte County and together with transportation options to adjoining communities.

COMMUNITY NEEDS

HEALTHCARE



Support the return of a full range of health care, including emergency services and hospital.

The Camp Fire severely impacted health care services in Paradise, and since November 2018, the Town has been without a hospital or Emergency Room. Prior to the fire, the hospital was the largest employer in Paradise, and served not only the Paradise population, but also the surrounding unincorporated communities as well as being a destination location for cancer and birthing services. The lack of a full hospital and emergency room is a barrier to recovery, and the Town is focused on working with any provider who is interested in investing in the Paradise community into the future.

RESIDENT FIRE MITIGATION EDUCATION

Pursue federal funding opportunities for the center including DOI's Joint Fire Science Program, USDA's State and Private Forestry: Cohesive Fire Strategy Program, and FEMA's Assistance to Firefighters Grant Program.

Paradise should be a location for the study of fire safety, fire hazard area ecology, disaster recovery best practices, hardening research, vocational training, building in harmony with nature, etc. The Town of Paradise would like to pursue partnerships with educational institutions that could lead to programs and a potential space downtown. Chico State has expressed interest in creating a healing recovery and resiliency center and Paradise should partner with Chico State to do this. With Chico State as the lead for this project, Paradise should seek subsequent funding to support their development of the center.

WILDFIRE RISK REDUCTION BUFFER



Support Paradise Recreation and Parks District in their efforts to secure funding for the acquisition and maintenance of land supporting the creation of significant wildfire buffer areas.

measure with long-term impact. Implement and maintain a buffer zone between development and the wildlands to reduce fire risk, especially on the east side of town. As fuels are reduced, these areas can also double as an opportunity for hiking trails. The soon to be released IBHS Wildfire Prepared Community Standards are expected to include buffer zones as a fundamental mitigation measure. It is anticipated that the creation of a fire break that fully surrounds the Town of Paradise would help reduce insurance costs by up to 40%. As well, initial cost benefit analysis research shows a 4:1 return on investment from damage reduction over 30 years with a fire break just on the eastern edge of Town. In addition to insurance reductions, a fire break could serve several functions beyond a protective barrier and passive green space. Other uses include: active park spaces, extended trail networks, and potential business opportunities that take responsible care of the town's boundary.

Fire breaks are a key element of community-wide fire safety and serve as an instrumental mitigation

POLICY RECOMMENDATIONS

TAX EXEMPTION FOR SETTLEMENT PAYMENTS

Support H.R. 176 to exempt federal taxation on settlement payments for Camp Fire Survivors.

Having experienced the most devastating fire in California history, survivors of the Camp Fire are doing their best to recover. With Pacific Gas and Electric (PG&E) being found responsible for the fire, many survivors entered into a lawsuit to help them recover financially when insurance and other resources fell far short of what would be needed to rebuild. These survivors are still waiting, 4 years later, for these funds to be fully distributed. Once received, without H.R. 176, those funds would be taxed as income. The State of California has already determined that to ask survivors of this tragedy to pay tax on these funds would be unjust and has passed A.B. 1249 exempting these funds from state taxes.

Camp Fire survivors are doing their best to move on with their lives, rebuild, and thrive. Resources to rebuild are scarce, and as prices rise due to inflation and supply chain issues, the cost of rebuilding is higher each day that goes by. Exempting PG&E settlement funds from federal taxes through H.R. 176 would help these survivors rebuild and make sure the funds they have available can all go towards that goal.

PRIVATE ROAD DESIGNATION BY FEMA

Explore potential options which would allow the Town to facilitate Camp Fire repairs to privately owned roadways.

Within the incorporated Town of Paradise exists about 550 unique private roadways totaling over 65 roadway miles. These roadways have been similarly impacted by the 2018 Camp Fire as public roads. Private roads were subject to damage caused by the fire itself, comprehensive debris removal operations, hazard tree removal operations and recovery/reconstruction activities. While public roadways have been determined eligible to receive public assistance through FEMA and Federal Highways Administration, private roadway owners have no recourse for damage restoration costs.

DISASTER ZONE DESIGNATION

Advocate for the establishment of a Disaster Zone designation for communities with significant destruction in the aftermath of a major natural disaster.

The Town of Paradise was devastated by the amount of destruction from the Camp Fire and faces a long road ahead for full economic recovery as the residential and business communities are rebuilt and reestablished. Building upon the Opportunity Zone program, the establishment of a Disaster Zone would help communities face rebuilding with support from federal agencies as well as private industry to spur the long-term investment needed for a full recovery. Assistance provided to communities under a Disaster Zone designation should also include direct federal assistance for grant administration as well as an expedited

disbursement of federal aid from programs such as CDBG-Disaster Recovery and FEMA Hazardous Mitigation Grant Program.

POST-DISASTER RECOVERY EFFICIENCIES

Advocate for the implementation of efficient processes and procedures that allow local, state, and federal agencies to respond quickly after a disaster and enable them to accelerate planning for and implementation of projects and programs that are vital to a community's immediate and long-term recovery efforts.

Post-disaster recovery efforts after the Camp Fire required close coordination between the Town, state agencies, and federal agencies, not to mention the Town's citizens, employees, contractors, and partners. The Town found that, at times, laborious and tedious processes to access federal and state resources often slowed down the implementation timeline for much needed recovery projects and programs. For instance, implementation of the Government Hazard Tree Removal Program was delayed several times in 2020 due to protests on the tree-felling bidding process. The delays resulted in the hazardous trees remaining a threat to the people and property in Paradise, delaying reconstruction in some cases, and resulting in trees falling and damaging standing homes and rebuilds.

CENTRALIZED FEDERAL FUNDING APPLICATION

Advocate for the establishment of a centralized disaster aid application process that provides simple and efficient access to federal resources for public agencies, business, and citizens in the aftermath of a major natural disaster.

In the days, weeks, and months that followed the Camp Fire, the Town, its residents, and its businesses applied for federal assistance from a variety of sources, including from the Federal Emergency Management Agency, the Small Business Administration, and other federal agencies. Each agency and each program required a different application process and documentation which created a laborious process for not only the Town, but also for Paradise citizens. Establishing one centralized portal that gathers information and documentation once from applicants would create a more efficient flow of information, services, and assistance.

FEDERAL ROLE IN PERMANENT HOUSING AID FOR DISASTER SURVIVORS

Advocate for Congressional evaluation of how and when federal agencies should assist disaster survivors in attaining permanent housing.

Section 408 of the Stafford Act (42 USC 5174) provides FEMA with the authority to provide financial or direct assistance for permanent housing construction in "insular areas outside the continental United States and in other remote locations in cases in which—(A) no alternative housing resources are not available; and (B) the types of temporary housing assistance...are unavailable, infeasible, or not cost-effective." If temporary housing assistance is not available, feasible, or cost-effective, FEMA should be able to assist with providing permanent housing solutions or at a minimum helping survivors attain permanent housing in the continental

U.S. as well. In addition, a 2019 CRS report titled "Disaster Housing Assistance: Homeland Security Issues in the 116th Congress," (IN11054) states that "FEMA provides temporary housing assistance to meet short-term and interim disaster housing needs; however, clearly defining the use of these programs and identifying a process to assist some disaster survivors with attaining permanent housing may be needed to comprehensively address disaster housing needs throughout all phases of recovery."

SUCCESSES



CONGRESSIONAL PRIORITY PROJECTS

Paradise was supported by our Senators Feinstein and Padilla, and Congressman LaMalfa in their Congressional Priority Projects. \$1.8 Million was allocated to the Town for the Roe Road Extension Phase 1 Project, which will improve evacuation by connecting multiple long dead-end streets in Town. The Town of Paradise also received \$615,000 to replace Police Radios lost in the fire, improving public safety for our residents.



WALKABLE AND WORKABLE DOWNTOWN

Paradise was awarded funding for sidewalks, lighting, landscaping, and drainage facilities in the central business district. The Town utilized this investment to help revitalize the central business district of Paradise by increasing the downtown area's walkability and workability, through public transportation and recreational opportunities.



PUBLIC SAFETY AND LAW ENFORCEMENT

The Town's public safety and law enforcement agencies were critical during the response to the Camp Fire event and remain a critical element of our recovery efforts. Since the disaster, the Town has rebuilt critical public safety buildings and restored damaged fleets, and continues to invest in upgrades to aging and damaged technologies for the Town's police and fire departments.



EMERGENCY NOTIFICATION SYSTEM

As part of the Town's Long-Term Community Recovery Plan, the Town prioritized the installation of an early warning system that would improve the existing voluntary notification system, implement a mass notification system, and create an audible/alarm notification system. The system will allow the Town to communicate specific messages for emergency events, including the presence of a fire, as well as provide redundant and timeline alerts in addition to existing notification tools. The Town secured a Hazard Mitigation Grant to develop a Design & Scoping Plan for the project and has been authorized to start construction activities. It is anticipated a complete system, comprised of 21 individual towers will be ready for use in summer 2023.



ROADWAY DAMAGE RESTORATION

Combined support between FEMA Public Assistance and Federal Highways Administration's Emergency Relief Program, the Town of Paradise has secured and commenced delivery of \$93M in roadway rehabilitation projects. These projects are critical to the Town's recovery and will provide basic infrastructure restoration to pre-fire conditions.



EDA TRANSPORTATION MASTER PLAN

As noted elsewhere in this document, the Town of Paradise was awarded a critical Economic Development Administration planning grant to prepare the 2022 Transportation Master Plan. This \$1.8M grant allowed the Town to perform invaluable public outreach, complete detailed studies and scope projects the Town depends on for a full recovery. It cannot be understated the value of this "gap" funding project has served, now having leveraged nearly \$250M in returns between multiple State and federal grant programs.

CDBG-DR ALLOCATIONS FOR MULTI-FAMILY HOUSING AND INFRASTRUCTURE

To date, over \$250 Million has been allocated to the Town of Paradise for Multi-Family Housing and Infrastructure projects. \$55 Million in multi-family housing projects are working their way through the permitting process, and we anticipate over 290 new affordable housing units through these efforts. \$199 Million in infrastructure funding is being allocated to priority evacuation projects to increase evacuation capacity and safety for residents.



💢 WATER SYSTEM INFRASTRUCTURE

The Town of Paradise supported the Paradise Irrigation District (PID) in its mission to restore potable water to the area. In order to repair the water system, PID sampled all service laterals and mains in the distribution system for volatile organic compounds, replaced contaminated service laterals, and restored potable water service to the system.



FEMA COST SHARE INCREASE FOR

CATEGORIES A & B

Camp Fire emergency response and debris removal needs are extraordinary. While final costs of these activities are still unknown, they are estimated to be millions of dollars. This does not include the expense of staff and employee time, which is non-reimbursable under Federal Emergency Management Agency's (FEMA's) Public Assistance Program. The Town's share of the local match required for Categories A (debris removal) and B (emergency response) continues to climb, with required local matches far exceeding local resources. Understanding the exceptional nature of the damages produced by the Camp Fire, Congress approved an increase in the federal share of assistance for Category A & B damages under FEMA's Public Assistance Program from 75% to 90% in Section 309 of the Consolidated Appropriations Act, 2019.



FEMA COST SHARE FOR CATEGORIES C - G

The current reimbursement rate for FEMA Public Assistance Categories C-G is 75%. The Town anticipates one of its largest expenditures in recovery efforts to be the repair and replacement of damaged roads. Public roadways fall under FEMA's jurisdiction under Category C (roads). Early estimates predict total road repairs to be in the tens of millions of dollars, putting the Town's share at a level that could exceed its annual operating budget for normal road maintenance. The final cost of needed road repairs will not be known until further in the recovery effort as truck and freight movement in and out of the Town for debris removal, tree removal, and reconstruction continue. An increase in the federal cost share of FEMA Public Assistance funding would significantly reduce the Town's unmet funding needs.



RURAL COMMUNITY DESIGNATION

After the Camp Fire, the Town of Paradise's population fell from 26,800 to approximately 2,034. Paradise's original population exceeded thresholds for grant and loan programs offered by the U.S. Department of Agriculture (USDA). However, the post Camp Fire population met USDA population requirements. In order to help bridge the gap between the official population counts for the Town, Congress approved legislative language in Section 108 the FY 2019 Additional Supplemental Appropriations for Disaster Relief Act (P.L. 116-20) that allowed the Governor to designate the Town as rural in nature until a revised population count was conducted as part of the 2020 Census. The designation qualified the Town to apply for immediate assistance under the USDA Rural Development programs.



REMOVAL OF STANDING BURNT TREES

The removal of standing burnt trees was critical to the overall recovery of the Town as tens of thousands of trees needed to be removed. Historically, FEMA has not funded the removal of standing burnt trees on private property that were threatening the public right-of-way. The Town worked with FEMA to explain how critical the removal of these trees is to the safety and recovery of the Town. In 2019, FEMA approved the use of Public Assistance Program funding for the removal of standing burnt trees located on private property that are threatening a public right-of-way.

💢 USDA GRANT FOR BUILDING RESILIENCY

CENTER

After the Camp Fire, the Town needed a place that could be used as a one-stop-shop for residents who are rebuilding or considering rebuilding in the Town of Paradise. USDA awarded the Town a \$148,300 grant to renovate a building donated by the Bank of America for use as the Town's "Building Resiliency Center" (BRC). The BRC was one of the first major community projects completed since the Camp Fire. The Town's building department is located inside the BRC, where residents can ask questions, apply for permits, and get all the information they need to rebuild their home. The BRC also offers housing counseling services to help residents understand grants and other resources available for their housing needs. Further, USDA supported the procurement of the following equipment:

Fire Engine Police Department Community Services Officer Vehicle **Animal Control Truck** Street Sweeper Two Code Enforcement Vehicles **Brush Chipper** Skid Steer Four Public Works Trucks Vacuum Excavator

These items replaced equipment lost in the fire as well as equipment to manage the new post-fire landscape.



Town of Paradise



Council Agenda Summary

Agenda Item: 6(b)

Date: February 14, 2023

ORIGINATED BY: Dina Volenski, Town Clerk/Elections Official

REVIEWED BY: Kevin Phillips, Town Manager

SUBJECT: Town Council Appointment to fill one vacancy on the

Paradise Planning Commission

LONG TERM No

RECOVERY PLAN:

COUNCIL ACTION REQUESTED: Council Members Crowder and Lassonde, the Planning Commission Interview Panel, recommend the following:

Consider concurring with the recommendation of the interview panel; and,

- Appoint applicant Charles Homan to fill the existing vacancy on the Planning Commission (effective immediately with term to expire June 30, 2024; or,
- 2. Consider an alternative direction.

Background:

On December 13, 2022, the Town Council approved the Notice of Vacancy and application and authorized staff to advertise the existing vacancy on the Planning Commission due to the Election of Ron Lassonde to the Paradise Town Council. Advertising for the position included posting on the Town's website, Facebook page, a public notice and the Weekly Recovery update. An application deadline of January 12, 2023 at 5:00 p.m. was set; Council Members Crowder and Lassonde were appointed to serve as the interview committee; staff was directed to provide suggested questions and a scoring matrix for the candidates; interviews were scheduled for January 25, 2023; and appointment to the vacancy at the February 14, 2023 Regular Town Council meeting.

Nine applications were received, but one individual withdrew their name from the interview process due to a potential conflict of interest. Interviews were conducted on January 25, 2023 with the following applicants:

- Raymond Gary Hendra
- Lee Brown
- Josh Fisher
- Speri Machuga
- Dee Riley
- Charles Holman
- Linda Reynolds
- Clariece Tally

Analysis:

The interview committee unanimously recommends appointing Charles Holman to the Planning Commission, effective immediately. Additionally, the following applicants are recommended to be alternates for potential future vacancies.

- Josh Fisher
- Dee Riley
- Clariece Tally

Financial Impact:

None

Town of Paradise



Council Agenda Summary

Date: February 14, 2023

ORIGINATED BY: Kate Anderson, Housing Program Manager

REVIEWED BY: Kevin Phillips, Town Manager

SUBJECT: Community Development Block Grant Program

(CDBG) 2023-2024 Subrecipient Committee

Agenda Item: 6(c)

Appointment

LONG TERM
RECOVERY PLAN:

No.

COUNCIL ACTION REQUESTED:

1. Approve the formation of a public services sub-committee to consider input and requests for public services funding; and

2. Appoint two Council members to the public services subcommittee.

Background:

The Town of Paradise has been a U.S. Department of Housing and Development (HUD) entitlement city since 1994. HUD awards grants to entitlement community grantees to carry out a wide range of community development activities directed toward revitalizing neighborhoods, economic development, and providing improved community facilities and services.

Entitlement communities develop their own programs and funding priorities. However, grantees must give maximum feasible priority to activities which benefit low- and moderate-income persons. A grantee may also carry out activities which aid in the prevention or elimination of slums or blight. Additionally, grantees may fund activities when the grantee certifies that the activities meet other community development needs having a particular urgency because existing conditions pose a serious and immediate threat to the health or welfare of the community where other financial resources are not available to meet such needs. CDBG funds may not be used for activities which do not meet these broad national objectives.

HUD determines the amount of each entitlement grant by a statutory dual formula which uses several objective measures of community needs, including the extent of poverty, population, housing overcrowding, age of housing and population growth lag in relationship to other metropolitan areas.

Public Services Funding Process: As part of the Community Development Block Grant (CDBG) Annual Plan process, the Town Council may elect, but is not required, to allocate up to 15% of its Program Year funding for public services agencies. The agencies must be legal, non-profit organizations that provide services to low- and moderate-income residents.

In the past, the Town Council directed staff to establish a sub-committee consisting of two council representatives and two staff members to hold preliminary interviews with interested subrecipients. The purpose of the subcommittee was to meet with the subrecipients and make a formal recommendation to the Council for final approval.

Analysis:

Although the Town has some discretion on how the funds are used, there are many restrictions, conditions, and objectives that must be met. Community Development Block Grant funds for public services must be a new service; or be a quantifiable increase in the level of an existing service; may not replace local or state monies to fund an essential service; may not fund payments made to individuals for basic needs; and may not fund a political activity. The activity funded must also:

- 1. Benefit low- and moderate-income persons,
- 2. Aid in the prevention or elimination of slums or blight; or,
- 3. Meet community development needs having a particular urgency.

Financial Impact:

The impact of this agenda item and subsequent actions related to the CDBG Program is positive. It will result in the award of approximately \$107,537.00 in federal funds as we estimate the Town may receive approximately the same amount of funding as last year, of which, \$16,130 can be granted to subrecipients.

Town of Paradise



Council Agenda Summary

Date: February 14, 2023

ORIGINATED BY: Marc Mattox, Public Works Director &Town Engineer

Ashley Stanley, Engineering Division Manager

Agenda Item: 6(d)

REVIEWED BY: Kevin Phillips, Town Manager

SUBJECT: Paradise Sewer Project – Inter-Municipal Agreement

LONG TERM Yes, Tier 1 "Sewer"

RECOVERY PLAN:

COUNCIL ACTION REQUESTED:

 Review and approve the proposed Inter-Municipal Agreement and authorize the Town Manager to execute following review and approval by the Town Attorney, City of Chico City Council and City Attorney; and

- Authorize the Town Manager to approve minor adjustments to the Inter-Municipal Agreement as requested by the City of Chico during its review and consideration process; and
- c) Direct staff to continue the next steps in the Paradise Sewer Project including supporting the City of Chico in an application to the Butte Local Agency Formation Commission for the extension of wastewater treatment services to the Town of Paradise; or
- d) Provide alternative action (ROLL CALL VOTE)

Background:

Since its incorporation in 1979, the Town has sought a formal wastewater treatment solution for the community, with service for commercial and densely populated residential areas being a priority. Failed and failing septic systems create public health and environmental concerns and have limited economic growth. Prior to the Camp Fire, which almost completely destroyed the town in 2018, Paradise was the largest unsewered community in California. The Town has prepared numerous studies to address its need for a centralized wastewater treatment solution, and in its most recent study, the Town identified a proposed sewer service area. The proposed sewer service area includes the Town's commercial corridors, and as described in the 2017 feasibility study, it represented the area that had the most septic systems that had failed or were projected to fail by 2022.

The Paradise Sewer Project consists of three primary components: Core Collection System, Export Pipeline System, and Extended Collection System. The Core Collection System would support the centralized businesses and housing in Town, including approximately 1,500 parcels along the Skyway, Clark Road, and Pearson Road corridors. The proposed Export Pipeline System would start at the southern end of the Core Collection System as a gravity sewer line and would continue southwest approximately 18 miles to the City of Chico for connection to the Chico Water Pollution Control Plant. Other than the Town of Paradise flow, no other connections will be

allowed to the export pipeline. The Extended Collection System would be an extension of the Core Collection System that would allow collection of sewage from parcels outside the Core Collection System, but within the Town limits.

Concurrent to the preparation of the Programmatic Environmental Impact Report, a Sewer Regionalization Project Advisory Committee (SRPAC) was formed. The role of the Advisory Committee is to develop principles of agreement for the City to provide the Town with wastewater treatment services. The Advisory Committee will also monitor overall progress of the project including the EIR process and associated public comment periods as well as provide updates and recommendations back to the two Councils.

The SRPAC met numerous times between April 2021 and March 2022, soliciting public and stakeholder feedback along the way. The SRPAC methodically addressed the draft Principles of Agreement during these open meetings.

The Principles of Agreement prepared with the SRPAC outlined key parameters of a potential agreement such as ensuring that ratepayers for Chico are not financially responsible for any aspect of Paradise's treatment needs, in addition to a potential connection payment from the Town of Paradise to the City of Chico, agreed at \$14.9 million, to support the existing plant and capacity related needs.

The Principles of Agreement also set forth a requirement that the Paradise Sewer Project only serves properties within the Town of Paradise Town Limits.

The Principles of Agreement created by the SRPAC were approved as Draft, without comments by both Paradise Town Council (April 2022) and Chico City Council (May 2022) and received no public comments in the 30-day public noticing period. The Principles were finalized in June 2022 by respective Town and City Councils with direction for staff to start preparing the formal Inter-Municipal Agreement (IMA) for execution between the Town of Paradise and City of Chico following the certification of the Project's Final Programmatic Environmental Impact Report (FPEIR).

The Final Programmatic Environmental Impact Report (Final PEIR) assessed the potential environmental impacts of the proposed Project on the physical, human, and natural environment. A wide variety of resource areas were studied to identify potential impacts, including aesthetics, agriculture and forestry resources, air quality and greenhouse gas emissions, biological resources, cultural resources, energy, geology and soils, hazards and hazardous materials, hydrology and water quality, land use and planning, noise, population and housing, public services, recreation, transportation, tribal cultural resources, utilities and service systems, wildfire, and additional topics as required by the CEQA Guidelines including significant irreversible environmental changes, growth inducement, cumulative impacts, and alternatives. Measures to avoid, minimize, and mitigate any potential adverse impacts were identified and evaluated in the Draft PEIR.

The Town published the required documents for availability, distribution, and comments on the Draft PEIR, including a 45-day public review and comment period (July 14, 5pm, to August 29, 2022) and held three public meetings (August 8 (6:00pm), August 10 (12:30 and 6:00 pm), 2022). Responsible and trustee agencies, involved federal agencies, interest groups, and members of the public were invited to provide input on the Draft PEIR. Comments were submitted in person, at Town Hall and through www.paradisesewer.com. All input received was documented and addressed in the Final Programmatic Environmental Impact Report (FPEIR). A Public Hearing for the FPEIR was held on November 7, 2023 and was approved by the Paradise Town Council. A Notice of Determination was filed with the Butte County Recorder's Office with final certification complete on December 8, 2022.

Analysis:

Following extensive reviews by both City of Chico and Town of Paradise staff and legal departments, a proposed Inter-Municipal Agreement has been completed and requires consideration by respective City and Town Council's for execution.

A copy of the IMA is included in this Agenda Summary. The IMA is consistent with the Principles of Agreement initially approved by the SRPAC and respective Councils.

It is anticipated that the City of Chico City Council will formally consider review and approval of the IMA at their regularly scheduled February 21, 2023 Council meeting.

Staff is recommending Town Council approve the presented IMA with authorization given to the Town Manager to approve any minor changes proposed by the City of Chico during their consideration process.

Financial Impact:

There are no new financial impacts associated with this specific action requested. Project funding is addressed separately through various Council Actions and funding sources.

To date, all project costs within the prior three years have been secured through various grants with \$30 million secured for anticipated design and right of way phases. Further the Town of Paradise has pledged an additional \$15 million of Disaster Recovery Infrastructure funding to the construction phase of the project. Staff continues to seek additional grant funding opportunities, including significant funding through the Water Board Division of Financial Assistance under the 2022 State Budget Act's approved Septic to Sewer funding program.

Attachments:

1. Inter-Municipal Agreement between the Town of Paradise and City of Chico

INTER-MUNICIPAL AGREEMENT CITY OF CHICO WASTEWATER TREATMENT SERVICES TO THE TOWN OF PARADISE

FEBRUARY 21, 2023

RECITALS

- 1. The Town of Paradise experiences public health and safety risks as a result of its failed or failing sewer system and has sought a solution for some time, as detailed in the Program EIR for the Paradise Sewer Project.
- 2. Through its work on the Paradise Sewer Project (Project), the Town of Paradise (Town) identified a connection to the Chico Water Pollution Control Plant (WPCP) as its preferred alternative for wastewater treatment and disposal and approached the City of Chico (City) to explore the feasibility of such a connection.
- 3. The Project improves groundwater quality and facilitates a regional wastewater approach.
- 4. The WPCP is part of the Chico sanitary sewer system.
- 5. The City of Chico Municipal Code Section 15.40.285, "Regulation of Waste Received from Other Jurisdictions," requires that any project with another municipality which would utilize the Chico sanitary sewer system requires an intermunicipal agreement (IMA) and sets out the requirements for such agreement.
- To initially draft such an IMA, the Councils of the Town of Paradise, and City of Chico formed a Sewer Regionalization Project Advisory Committee (Committee) as a mechanism for exploring this proposal. The Committee was composed of two elected officials from each entity.
- 7. The Committee developed 17 Principles of Agreement (POA) that were posted for public review and comment between March 25 and April 25, 2022. No comments were received.
- 8. At a City Council meeting on June 7, 2022, and Town Council meeting on June 14, 2022, the two Councils approved the POA and directed counsel for each party to develop the IMA, based on the POA. A copy of the approved POA is attached and incorporated as Exhibit 1 to this Agreement.
- On or about November 7, 2022, the Town Council certified the Program EIR for the Project; in addition, the Town filed a Notice of Determination for the Final Program EIR on December 8, 2022.
- 10. This IMA is intended to be a living and flexible document to guide the future relationship between the Parties in regarding the use of the Chico Sanitary Sewer System at the connection to the WPCP.

Section 1. Recitals.

The Recitals set out above are true and correct.

Section 2. Definitions.

Unless the context otherwise requires, the terms defined in this Section 2 shall for all purposes of this Agreement have the meanings specified here:

AUTHORIZED REPRESENTATIVE: The Town of Paradise Town Manager or designee and the City of Chico City Manager or designee.

CHICO SANITARY SEWER SYSTEM: The sewer system within the City of Chico, separate from the Town sewer system.

CHICO WPCP or WPCP: The Chico Water Pollution Control Plant.

CITY: The City of Chico.

COMBINED FLOW: The total flow within the pipe

CORE COLLECTION SYSTEM: The sewer system within the Town of Paradise identified in the Sewer Service Area.

DISCHARGE: The introduction of pollutants or wastewater into the City's sanitary sewer system by any means.

EXPORT PIPELINE SYSTEM: The portion of the Paradise Sewer Project beginning at the downstream point of the Town collection system and ending at the connection to the Chico WPCP.

INFILTRATION: Any inflow entering a collector, trunk, or interceptor sewer or service connections thereto from the ground through such means as, including but not limited to, defective pipes, pipe joints, connections, or manhole walls.

INFLOW: Any non-sewer discharge into the collector, trunk, or interceptor sewer or service connections thereto from such sources as, but not limited to, roof leaders, cellars, yard and area drains, foundation drains, cooling water discharges, drains from springs and swampy areas, manhole covers, crossconnections from storm sewers and combined sewers, catch basins, storm waters, surface runoff, street wash waters or drainage.

MAINTENANCE AND OPERATION COSTS: The reasonable and necessary costs of maintaining and operating a wastewater collection system calculated on sound accounting principles, including but not limited to the reasonable expenses of management, operation, repair and other expenses necessary to maintain and preserve the system in good repair and working order, and reasonable amounts for administration overhead, insurance, taxes (if any) and other similar costs.

MGD: Million gallons per day.

PRETREATMENT: The reduction of the amount of pollutants, the elimination of pollutants, or the alteration of the nature of pollutant properties in wastewater prior to or in lieu of discharging or otherwise introducing such pollutants into the Town or City's sanitary sewer system. The reduction or alteration can be obtained by physical, chemical or biological processes; by process changes; or by other means, except by diluting the concentration of the pollutant unless allowed by an applicable pretreatment standard.

PRETREATMENT PROGRAM: The City of Chico Municipal Code pretreatment requirements for wastewater pursuant to Chico Municipal Code Chapter 15 Article 3 commencing with Section 15.40.027.

PROJECT: The entire wastewater project that the Town of Paradise will construct to collect and convey wastewater to the Chico WPCP, also called the Paradise Sewer Project.

SANITARY SEWAGE: All liquid and water-carried waste from residences, business buildings, institutions, or other similar establishments, excluding storm waters, combined flow, and industrial waste.

SEWER SERVICE AREA: The area within the Town of Paradise where wastewater is collected consisting of the Core Collection Area (approximately 1,400 parcels within the Town's downtown and evacuations corridors). At no time shall the Sewer Service Area extend beyond the Town limits.

TOWN: The Town of Paradise.

TOWN CORE COLLECTION AREA/SYSTEM: The Wastewater Collection system within the Town of Paradise Sewer Service Area.

TOWN WASTEWATER FACILITIES: The combination of the Core Collection System and Export Pipeline System.

WASTEWATER: The liquid and water-carried industrial or domestic wastes from dwellings, commercial buildings, industrial facilities, and institutions, whether treated or untreated, which is contributed into or permitted to enter the Chico WPCP. This includes infiltration, inflow, and combined flow.

WASTEWATER COLLECTION: The combined sewer system, including pipelines conveying sewer.

WASTERWATER TREATMENT SERVICES: The services provided by the City of Chico to the Town of Paradise pursuant to this Agreement.

Section 3. General Terms and Conditions.

A. Purpose of Agreement:

It is intended that this Agreement meet the requirements of the applicable provisions of Chico Municipal Code Section 15.40.285 for an inter-municipal agreement for connection of the Town's Sewer Service Area to the Chico WPCP as well as provide for the roles and responsibilities for the provision of wastewater discharge for the Paradise Sewer Project.

It further is intended that this Agreement serve as an inter-municipal agreement to be submitted to the Butte County Local Agency Formation Commission.

B. Term and Termination:

This Agreement shall become effective as of the date of approval of both Parties and thereafter an Extension of Services approval by the Butte County Local Agency Formation Commission; thereafter, it shall continue in full force and effect until terminated by written agreement of all the parties hereto, as provided in Section 17, or by operation of law.

C. Scope of Authority and Services:

- 1. City's Financial Responsibility: The City shall finance, construct, reconstruct, operate, repair and maintain all facilities for the treatment and disposal of sanitary sewage and industrial waste delivered to the WPCP originating from the Town's Sewer Service Area in compliance with all applicable laws and regulations and the terms of this Agreement. Except as otherwise provided herein, the City shall not be financially responsible for any costs of Town's Wastewater Facilities.
- 2. Town's Financial Responsibility: Except as otherwise provided herein, the Town shall be financially responsible for any and all costs of Town's Wastewater Facilities and shall finance, construct, reconstruct, operate, repair and maintain all collector and trunk sewers for wastewater originating within its Sewer Service Area in compliance with this Agreement and all applicable laws and regulations, including but not limited to those of the City of Chico and specifically Chico Municipal Code Sections 15.40.024 and 15.40.027, and the terms of this Agreement.

D. Project Committee:

Upon execution of this Agreement by both Parties, each Party shall appoint an Authorized Representative to represent it in dealing with ongoing operations and provide written notice and contact information for its Authorized Representative to the other Party.

During the construction of the Project, the Parties shall work together through a project coordination team (PCT). The PCT will include each Party's Authorized Representative and such other staff or consultants as each Party desires. The PCT will meet periodically as agreed by its members, but at least monthly, to review progress and cooperate in fulfilling each Party's responsibilities under this Agreement.

Upon completion of the Project and connection to the WPCP, the Authorized Representatives shall continue to represent each Party and the PCT will continue to assist the Parties.

Each Party shall bear its own expenses for the PCT unless otherwise agreed in writing.

E. Good Faith Cooperation:

The Parties will act in good faith and cooperate with each other in operating the Paradise Sewer Project and the WPCP. The Parties will provide the necessary services of their Authorized

Representatives to perform their duties under this Agreement and provide any necessary institutional and financial support to meet their obligations under this Agreement.

F. Disclosure of Financial Information, Operating Data, and Other Information:

Each Party agrees to furnish such financial, operating, and other data pertaining to the Paradise Sewer Project and WPCP respectively as may be requested by the other Party or the State Water Resources Control Board.

G. Operating Agreement:

The City and Town will enter into a more detailed Operating Agreement which may become part of this Agreement. That Operating Agreement shall deal with the engineering and technical details of the connection to the WPCP and system operations and maintenance thereafter. The Operating Agreement also may allocate operational responsibilities and costs. The execution of the Operating Agreement is a condition precedent to the Town discharging any wastewater to the WPCP.

Section 4. City Provision of Wastewater Capacity to the Town.

Α.	The City guarantees that in consideration of the Town's initial treatment connection payment
	(described in Section 12), commencing as of, the Town of Paradise is
	allocated, guaranteed and entitled to discharge up to, but no more than, 0.464 million gallons per
	day (mgd) average dry weather flow (ADWF) to the WPCP. ADWF will be calculated using criteria
	specified by the Central Valley Regional Water Quality Control Board in the Chico National Pollutan
	Discharge Elimination System (NPDES) permit as revised from time to time.

- B. If the Town exceeds this allocated amount of discharge, Town shall pay to City normal fees plus a flat 20% penalty fee.
- C. When the Town's discharge reaches 90% (0.4176 mgd) of the agreed upon 0.464 mgd capacity allocation, the following shall occur:
 - Town will prepare and submit to the City an Allocation Assessment Report. The report shall include a review of options, including maintaining the 0.464 mgd flow limit, or commence efforts to negotiate additional capacity to be discharged to the WPCP, including required environmental review and approvals.
 - 2. The Town will review proposed or new connections and continue to approve new connections only in a manner that does not exceed the 0.464 mgd allocation.
 - 3. If the Town reaches the 0.464 mgd flow limit, the Town shall not allow additional connections to its sewer system until discharges are reduced to the flow limit. Alternatively, the City and Town, in an Amendment pursuant to Section 19.E Modifications of Agreement, may agree on an increase in the allowable discharge to the WPCP, including required environmental review and approvals.

- D. The boundaries of the area served under this Agreement cannot exceed the boundaries of the Town.
- E. All other applicable requirements for the connection of the Core Collection and Extended Collection Systems must be met, including but not limited to capacity at the Chico WPCP.
- F. The Town and the City shall prohibit connections to the Export Pipeline System from that portion of the pipeline that sits outside of the Town limits.

Section 5. Town Adoption of City Sewer Use Ordinance.

- A. The Town will adopt a sewer use ordinance at least as stringent as that set out in City Municipal Code Section 15.40 Article II (attached and incorporated as Exhibit "2") which ordinance is acceptable to the City. Town thereafter will update the ordinance so that it remains consistent with the City's ordinance (the "Sewer Use Ordinance"). Such ordinance shall be in effect no later than the time of the completion of construction of the Export Pipeline System and before connection to the WPCP.
- B. The Sewer Use Ordinance shall apply to all Wastewater discharges from the Town.
- C. The Sewer Use Ordinance shall address and the Town shall develop and administer a Sewer Application process. The Sewer Application process shall consist of two parts: a Town-reviewed portion for the connection to the Core Collection or Extended Collection System and a City-reviewed portion for treatment for industrial uses which meet the discharge thresholds set out in Section 15.40.285 (the Pretreatment Program, attached and incorporated as Exhibit "3").
- D. The Town generally will not be required to pretreat its discharges. However, all Town wastewater discharges are subject to the Pretreatment requirements of the City's Pretreatment Program as set out in this Agreement and in the City Code.
- E. The City review of Town wastewater discharges for Pretreatment requirements will be the same as the existing program within the City. When the proposed Discharge exceeds the thresholds established in the Pretreatment Program, the discharger will be required by the City to treat its Discharge to a sufficient degree to meet the City's Pretreatment Program requirements. The Town does not have a role in enforcing such requirements.

Section 6. Information Provided by the Town to the City:

A. Quarterly Report:

Commencing as of the first date of the discharge into the Export Pipeline System, the Town shall submit a quarterly report of all entities discharging into its Core Collection System, classified by residential and commercial dischargers. The report shall be in a format determined by the City. This quarterly report also shall contain an estimate of the number of new connections estimated to

occur over the next 12-month period, broken down by the same classifications, and expected changes in volume and character of wastewater discharge within that time period.

B. Annual Inventory:

The annual inventory shall be based upon the quarterly inventory and shall reflect data from July 1 through June 30 of each fiscal year, and will be submitted by August 1 of each year, commencing with the first year of operation of the Core Collection System.

The annual and quarterly reports and inventory process also shall apply to the Extended Collection System and any other connections within the Sewer Service Area.

The Town also shall provide information requested by the City Director of Public Works ("Director"), including but not limited to a description of the quality and volume of wastewater discharged to the City's sanitary sewer system by the Town and such other information as the Director shall deem necessary.

Section 7. Access to Town Facilities.

A. The Town hereby grants to the City access to the Town Wastewater Facilities, including but not limited to those within the Town's boundaries for purposes of inspection, sampling, and other duties deemed necessary by the City. The City will give the Town sufficient notice to allow the Town to arrange safe access to the facilities. The Town and City will agree upon efficient ways to jointly conduct inspections to minimize impacts to both entities' staff.

Section 8. Wastewater Monitoring.

- A. As part of the Project, the Town will construct the Flow Control and Metering Structure which will contain flow control and monitoring equipment. The Flow Control and Metering Structure will be located at or near the WPCP. The Flow Control and Metering Structure shall contain Wastewater monitoring equipment (e.g., flow meter, composite sampler). Because the City has staff familiar with this type of equipment, and because it has its own Wastewater laboratory for testing Wastewater samples, the flow metering and monitoring equipment may be operated and maintained by City staff or their designees, and samples may be processed in the City lab or designated lab. The costs for these services shall be incorporated within the agreed-upon monthly fee structure for Wastewater Treatment Services provided by the City to the Town.
- B. Consideration will also be given by the Parties to having some level of monitoring equipment at the upper end of the Export Pipeline System with access granted by the Town to the City.

Section 9: Pretreatment: Administration and Compliance with Requirements.

A. It is anticipated that a majority of the Wastewater discharges into the Paradise collection system will be of typical residential and commercial quality. However, all potential Town discharges will be subject to the Pretreatment requirements of this Agreement.

- B. The Town shall follow the City's Pretreatment Program, including future changes required by law or by the City. The Town will not develop a pretreatment program of its own. This includes but is not limited to the City's Fats, Oils & Grease (FOG) program. Dischargers will follow the City's Pretreatment Program application process, which includes setting monthly fees to be paid to the City. Pretreatment program fees will be collected by the Town and conveyed to the City, similar to the process outlined in Chapter 15 Article 3 commencing with 15.40.027 of the Chico Municipal Code.
- C. Application for sewer service first shall be made to the Town. Thereafter, all such applications will be provided to the City for review for Pretreatment requirements. The City has a Pretreatment Program to identify and monitor industrial or commercial dischargers who exceed certain thresholds. The review for Pretreatment requirements will be the same process as currently used by the City. If the proposed discharge exceeds the thresholds established in the Pretreatment Program, the discharger will have to treat its discharge to a sufficient degree to meet the City's Pretreatment Program requirements. The Town will reimburse the City for the costs of handling Pretreatment applications upon receipt of an invoice from the City showing the number of applications and per application cost.
- D. The Town shall provide the City with all information it obtains relative to meeting the City's Pretreatment Program requirements.

Section 10. Town Operation and Maintenance of Facilities.

- A. Subject to any exceptions and limitations set forth in this Agreement, the Town shall own and have the sole responsibility to finance, construct, reconstruct, operate, repair, replace and maintain all collector and trunk sewers for Wastewater originating within the Sewer Service Area, and all components of the Export Pipeline System that conveys Wastewater from the Sewer Service Area to the Chico WPCP, including but not limited to the Flow Control and Metering Structure at or near the Chico WPCP.
- B. Inflow and Infiltration: Town will complete such corrective measures to eliminate excessive inflow and infiltration as are reasonably demonstrated to be cost effective by studies conducted and funded by the Town
- C. Nothing in this Agreement prohibits the Town from contracting with the City to carry out the Town's responsibilities as to the Export Pipeline subject to one or more separate agreements.

Section 11. City Operation of WPCP.

A. Subject to the exceptions and limitations set forth in this Agreement, City has the sole responsibility to finance, construct, reconstruct, operate, and maintain the WPCP in compliance with all applicable regulatory requirements, as those may be modified from time to time.

Section 12. Allocation of Costs, Establishment of Service Rates and Procedures for the Collection of Sewer Rates and Delinquent Charges.

A. Initial Treatment Connection Payment:

In consideration of the provision of the capacity in the WPCP set out in this Agreement, the Town shall pay to City approximately \$14.9 million, payable in full at the time initial Wastewater flows begin from the Core Collection Area. This amount may be recalculated approximately six months before that date pursuant to the "Regionalization Planning Report for the Paradise Sewer Project (March 2022)," attached and incorporated as Exhibit "4."

This payment shall be used by the City only for capital costs associated with projects implemented at the WPCP. No flows shall be accepted by City until this payment has been made. The Town at its sole discretion may provide for the recovery of all or a portion of this payment in its sewer rates or sewer connection and capacity charges.

B. Subsequent Treatment Connection Fees:

In the event a new project or modification by the City is required solely for the purpose of sustaining the Town's connection, the City shall formally notify the Town of anticipated improvements, costs and schedules for an evaluation of alternatives including the Town modifying its monthly sewer rates. The Town shall pay to the City the Town's proportionate share of costs for improvements or modifications to the WPCP required by any regulatory agency only as a result of the Town connection and excluding any such costs for City connections or services.

C. Town Capacity and Connection Charges:

The Town will develop both capacity and connection charges as well as sewer impact fees applicable to new connections to the sewer system in the amounts and in the manner allowed by law.

D. Town Monthly Sewer Rates:

The Town shall develop sewer rates to be billed on a monthly basis, which will include the Town's and City's costs. Such rates shall be in the amounts allowed by law and shall be approved as required by Proposition 218 and other applicable laws. The City's monthly costs associated with wastewater treatment and disposal at the WPCP shall be included in such rates along with any additional pretreatment fee charged to special dischargers, according to the same metric as the City ratepayers.

E. <u>Town Collection of Sewer Rates:</u>

The Town shall periodically levy, bill, and use reasonable efforts to collect from each of its residential and commercial system users such sewer user charge.

F. Town Sewer Rate and Payment Records:

Adequate records shall be maintained by the Town to permit ready, separate identification of City Services and of local service charges, amounts received, and payments made to the City.

G. Pretreatment Costs:

In addition to City Wastewater treatment and disposal charges, a Town discharger subject to pretreatment requirements shall be responsible for payment of the City's charges for participating in the Pretreatment Program. Pursuant to Section 6, City shall collect all information from the Town needed to compute such charges and administer the approval process, provide such costs to the Town for such charges and adjust such charges as allowed by law. The Town shall be responsible for including such cost in its monthly sewer billings. The City shall be responsible for compliance with applicable law in setting such charges.

Section 13. Town Payment of Sewer Charges to City.

A. Not later than 45 calendar days following the date of each regular periodic billing for sewer charges, the Town shall pay to the City a sum that equals the total of all charges for City that were charged to Town for that billing period, regardless of the amount collected by Town from its users. Payments shall be accompanied by a summary identification by billing categories. A periodic (semi-annually) report shall be submitted to the City reconciling billings with payments.

Section 14. Monthly Treatment User Fees.

A. In addition to any other user and Pretreatment fees, the City shall establish a WPCP treatment fee as part of its overall City fee structure. Similarly, the Town of Paradise users will be charged WPCP treatment fees in accordance with residential, commercial, and industrial uses, and such fees shall not be higher than the proportional fees collected from the City's rate payers for WPCP treatment.

The Town will pay the treatment fee established in the City's fee schedule, including any future increases made to those fees. For any fee increases to City users, the City shall undertake the Prop 218 process. For any fee increases to Town users, whether initiated by Town or passed through to Town by City, Town shall undertake the Prop 218 process as required by law.

The Town will collect the treatment monthly user fee from its users. The Town will submit the total treatment monthly user fee amount to the City as set out in Section 13 above.

Section 15. Additional Provisions.

A. No Joint and Several Liability:

Neither party to this Agreement nor any officer or employee thereof shall be responsible for any liability occurring by reason of anything done or omitted to be done by the other party to this Agreement under or in connection with any work, authority or jurisdiction delegated to said other party under this Agreement. It is understood and agreed that this Agreement does not create a joint powers agency and, pursuant to California Government Code Section 895.4, each party to this Agreement shall fully indemnify and hold each other party to this Agreement harmless from any liability imposed for injury (as defined by California Government Code Section 810.8) occurring by reason of anything done or omitted to be done by said indemnifying party under or in connection with any work, authority or jurisdiction delegated to said party under this Agreement. There shall be no joint and several liability as a result of this Agreement.

B. Auditing Records:

The City shall have the authority to appoint such auditors as it deems necessary for the examination of financial records of the Town to determine compliance with this Agreement. The Town shall make available to such auditors all requested records and will assist and cooperate with the auditors in their efforts. Examples of required documentation may include reasonable efforts to collect delinquent charges; details of uncollectable charges; and account billing information by parcel.

Section 16. Resolution of Disputes.

A. "Dispute" means disputes, claims or other matters in question regarding the discharge of wastewater from the Town Wastewater Facilities to the Chico WPCP, which may or may not be a breach of this Agreement. Either party may initiate the dispute resolution process. No matter will be considered if it is a claim barred by an applicable statute of limitations or the provisions of local, state or federal law.

1. Initial Informal Resolution:

Either Party's Authorized Representative may provide the other Party's Authorized Representative a written letter or memo setting out the dispute in writing in sufficient detail to allow its resolution (with relevant back up materials), the remedy sought and the timing for resolution. The receiving party may request additional information. Once each side has the information necessary, the Authorized Representatives shall meet (in person or virtually) within a reasonable period of time (not to exceed one month) to try to resolve the dispute. Any resolution shall be in writing, attached to all materials provided, and retained for future reference.

2. If the Authorized Representatives cannot resolve the dispute, the process will be repeated with the senior executives of each party (i.e., public works director or city manager).

- 3. If the matter involves a technical operational matter, and the Parties themselves cannot resolve it, they may designate an independent expert to analyze the issue and provide recommendations for resolution. The Parties will evenly divide the costs of such an independent expert.
- 4. If the dispute is not otherwise resolved, the Parties will engage in non-binding mediation or arbitration.

5. Mediation:

If the Dispute is not resolved, then prior to any litigation of the Dispute commenced by either or both Parties, the Parties must jointly attempt to resolve the Dispute through mediation with a mutually acceptable mediator. If the Parties are unable to agree on a mediator within ten days of the request for mediation, then the Party requesting the mediation will request that JAMS or the American Arbitration Association to appoint a mediator from its personnel/panel experienced in similar disputes.

With the prior written approval of the Parties, the mediator may engage an expert consultant to provide independent analysis to the mediator on technical matters, which analysis the mediator may share with the Parties in mediator's discretion. The Parties and mediator will schedule a mediation session at a mutually acceptable time. Representatives from each Party who have authority to resolve the Dispute will attend the mediation. The mediator will have no authority to make binding decisions; any resolution of the Dispute during mediation requires the written agreement of both Parties. The Parties will bear the cost of mediation equally.

If mediation is not successful, the Parties may pursue any other remedy allowed by law and not prohibited by this Agreement, including but not limited to, binding arbitration or court action.

6. Continuation of Work:

Each Party must continue to perform its obligations under this Agreement, including but not limited to making all undisputed payments, regardless of the existence of a Dispute or the pendency of dispute resolution proceedings between the Parties. In no case shall the treatment of wastewater delivered from Paradise to the Chico WPCP cease.

Section 17. Default.

A. Failure of Chico to Properly Treat Wastewater:

It is understood and agreed that City, in granting to the Town the rights herein specified to discharge Wastewater into the WPCP and to have such Wastewater treated and disposed of in said system, is agreeing that the WPCP will be able to satisfactorily treat such Wastewater when delivered pursuant to the terms of this Agreement. In the event the Chico WPCP should for any reason be incapable of satisfactorily conveying, treating, or disposing of Wastewater discharged from the Town, the Town shall in no way be liable to the City for any damages arising or resulting from or suffered because of that failure; provided, however, that the Town shall not knowingly permit to be discharged into Chico WPCP any Wastewater from any source at rates of flow, strength or other characteristics inconsistent with this Agreement or those for which the WPCP is designed to handle or has been shown capable of handling by prior experience. The Parties agree that the City's obligations are unique and that the City's failure to meet its obligations under this Agreement would result in Town being unable to supply wastewater treatment in compliance with regulatory requirements, or in providing continuing sewer services, thereby harming the public welfare.

Therefore, without limiting any other of the Town's rights or remedies if the City fails to cure a material default which results in Town being unable to use the WPCP facilities, City agrees that the Town may bring an action for specific performance of this Agreement by the City, without waiving (1) any defense to such action; (2) its right to contest whether the City is in breach of a contractual obligation or (3) Town's obligation under Civil Code Section 3386 (or any successor statutory provision) to assure Town's performance of this Agreement.

B. Failure of Paradise to Properly Convey Wastewater:

Except as provided in Section 17.C, below, City agrees that its only remedy for a material default by the Town is a claim for monetary damages to the extent allowed under this Agreement. Except as provided in Section 17.C, below, in no event may the City suspend, slow down or cease to fulfill its obligations under this Agreement to operate the Chico WPCP and accept Paradise wastewater without the written consent of the Town. Except as specifically provided otherwise in this Agreement, before the City may seek a remedy for a material default by the Town, the City must provide written notice of such default to the Town. The notice must describe the nature of the default and identify a reasonable period for cure which must be at least 30 thirty calendar days after the notice of default and which will be extended as reasonably necessary for the cure of that default, so long as the Town commences and pursues the cure with reasonable diligence during the identified time period. If the Town fails to cure the default within that time period, then the City may proceed with dispute resolution set out in Section 16.

C. Termination:

Parties agree to fully exhaust all measures outlined in Section 16 of this Agreement prior to consideration of termination of this Agreement. Parties further agree that if termination of this Agreement needs to be explored, terms shall be incorporated within a formal Amendment to this Agreement pursuant to Section 19.E Modifications of Agreement.

Section 18. Insurance and Indemnification.

A. Insurance:

Insurance requirements for both the City and Town are listed in Exhibit "5" of this Agreement.

B. Town's Duty of Indemnification and Defense:

To the fullest extent permitted by law, Town will defend, indemnify and hold City and its officers, agents and employees harmless from any and all claims, losses, damages, liabilities, fines, penalties, administrative proceedings, legal actions and expenses (including reasonable legal, expert witness and consulting fees and costs) to the extent arising out of, or resulting from the active negligence or willful misconduct of Town in connection with the Paradise Sewer Project or arising out of this Agreement.

If Town fails diligently to defend any such claim or proceeding, City shall have the right, but not the obligation, to do so at the Town's expense. The duty to defend will apply, and Town will be required to furnish a defense, notwithstanding that there has not yet been an adjudication or finding of liability on the part of either Party, or as to whether an exception to provide a defense or indemnity may apply.

Notwithstanding the above, Town will not be required to defend, indemnify and hold harmless City or its officers, employees or agents ("City") when such claims, losses, damages, liabilities and expenses arise from the sole active negligence or willful misconduct of City or those for whom City is responsible, which include fines imposed by administrative agencies, specifically including but not limited to fines from the Regional Water Board arising from City's operation of the WCPC.

C. <u>City's Duty of Indemnification and Defense:</u>

To the fullest extent permitted by law, City will defend, indemnify and hold Town and its officers, employees and agents affiliates harmless from any and all claims, losses, damages, liabilities, fines, penalties, administrative proceedings, legal actions, and expenses (including reasonable legal, expert witness and consulting fees and costs) including but not limited to those for costs for fines imposed by the Regional Water Board or other agencies arising from City's operation of the WCPC, to the extent arising out of or resulting from the active negligence or willful misconduct of City in providing or failing to provide services at the WPCP under this Agreement, and including but not limited to any challenges arising under City's rate setting process. Notwithstanding, the City will not be required to defend, indemnify, and hold harmless Town or its officers, employees or agents for their sole active negligence, or willful misconduct.

The City's obligations include providing the Town with copies of pleadings or other documents and the status of all such proceedings; coordinate any settlement of such claims and obtain full releases.

If City fails diligently to defend any such claim or proceeding, Town shall have the right, but not the obligation, to do so at the City's expense. The duty to defend will apply, and City will be required to furnish a defense, notwithstanding that there has not yet been an adjudication or finding of liability

on the part of either Party, or as to whether an exception to provide a defense or indemnity may apply.

Section 19. Miscellaneous.

A. <u>Force Majeure/State of Emergency:</u>

Force Majeure Event means a natural disaster, terrorist action or act of war, epidemic, pandemic, grave natural disaster, negligence on the part of the state, the United States, or any department or agency thereof, an act of governmental agency an intentional ace of a third party, the effects of which could not have been prevented or avoided by the exercise of due care or foresight, any other circumstance or event that causes a discharge despite the exercise of every reasonable precaution to prevent or mitigate the discharge or other emergencies, whether or not declared a State of Emergency beyond the control of the Parties that that impacts performance under this Agreement.

- In anticipation of or upon occurrence of any Force Majeure Event, each Party will notify
 the other's Authorized Representative. The Parties will notify and follow the guidance of
 the State Water Resources Control Board and Central Valley Water Resources Control
 Board
- 2. During the period of any Force Majeure Event the performance of this Agreement is abated and/or excused to the extent such performance was rendered impossible or extremely difficult.
- If a Force Majeure Event caused damage to the Chico Sanitary Sewer System, City shall
 use reasonable efforts to restore or mitigate the damage. City shall perform such
 restoration or mitigation in a reasonable time under the circumstances and at the sole
 cost and expense of City.
- 4. If a Force Majeure Event caused damage to the Town Wastewater Facilities, Town shall use reasonable efforts to restore or mitigate the damage. Town shall perform such restoration or mitigation in a reasonable time under the circumstances and at the sole cost and expense of Town.

B. Emergency Notification:

Each Party will promptly notify the other of material problems in the operation of the Paradise Sewer Project or Chico WPCP that affect the other Party, including, but not limited to:

- 1. Contamination from Paradise into the Export Pipeline.
- 2. Break in the Export Pipeline.
- 3. Reduced capacity at the WPCP.
- 4. Discharge violations at the WPCP.

C. Notice:

Notices required or permitted under this Agreement shall be sufficiently given to a party if in writing and if either served by email, facsimile, personally upon or mailed by registered or certified mail to the clerk of its governing body.

D. <u>Time of the Essence:</u>

Time is of the essence in this Agreement.

E. Modification of Agreement:

No term, provision, or condition of this Agreement shall be altered, amended, or departed from or be held or construed to have been waived except by the unanimous agreement and consent of the parties to this Agreement as evidenced by resolutions adopted by their respective governing bodies specifically authorizing the amendment. No waiver of any term or condition of this Agreement shall be a continuing waiver thereof.

This Agreement shall be reviewed 3 years from initial execution and every 5 years thereafter by the Parties and updated or revised as necessary.

Any modifications to the Agreement shall include a formal notification to the Water Board prior to execution.

F. <u>Severability:</u>

If any paragraph, subparagraph, sentence, clause, phrase, or word of this Agreement, or the application thereof, to any party, or to any other person or circumstance is for any reason held invalid, it shall be deemed severable and the validity of the remainder of the Agreement or the application of such provision to the other parties, or to any other persons or circumstance, shall not be affected thereby. Each party hereby declares that it would have entered into this Agreement and each paragraph, subparagraph, sentence, clause, phrase, and word thereof irrespective of the fact that one or more paragraphs, subparagraphs, sentences, clauses, phrases, or words, or the application thereof to any party or any other person or circumstance, be held invalid.

G. Further Assurances:

Each Party will adopt, make, execute and deliver any and all such further resolutions, instruments and assurances as may be reasonably necessary or proper to carry out the purposes and intent of this Agreement.

H. Jurisdiction and Venue:

This Agreement will be governed by the laws of the State of California. The Parties agree that the exclusive venue for any legal proceeding brought under this Agreement will be in the County of Butte, State of California.

I. Successors and Assigns:

It is mutually agreed by all the parties hereto that the agreements, covenants, conditions, limitations, restrictions, and undertakings herein contained shall apply to and bind the successors and assigns of the respective parties hereto as if they were in all cases named.

J. <u>Section Headings:</u>

The Section Headings contained in this Agreement are for reference purposes only and will not in any way affect the meaning or interpretation of this Agreement.

K. Entire Agreement:

This Agreement constitutes the entire integrated agreement between the Parties and supersedes all prior oral and written negotiations, representations, or agreements by the Parties with respect to this subject matter.

L. <u>Counterparts:</u>

For convenience the Parties may execute and acknowledge this Agreement in counterparts and when the separate signature pages containing original signatures are attached to the original Agreement or a copy of the Agreement, such document shall constitute one and the same complete original Agreement.

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Date: _____ NAME, City Manager Approved as to form: NAME, City Attorney ATTEST: Date: _____ NAME, City Clerk **TOWN OF PARADISE** Date: _____ NAME, Town Manager Approved as to form: Date: _____ NAME, Town Attorney ATTEST: Date: _____

NAME, Town Clerk

CITY OF CHICO

Final Principles of Agreement (version 7, 21-March-2022)

Introduction and Background

Through its work on the Paradise Sewer Project (Project), the Town of Paradise (Town) has identified a connection to the Chico Water Pollution Control Plant (WPCP) as its preferred alternative for wastewater treatment and disposal, and has approached the City of Chico (City) to explore the feasibility of such a connection. The Councils of the Town of Paradise and City of Chico have formed a Sewer Regionalization Project Advisory Committee (Committee) as a mechanism for exploring this proposal. The Central Valley Regional Water Quality Control Board (Regional Board) has agreed to facilitate the activities of the Committee.

Membership on the Committee is limited to elected officials from the Town and City, as those two parties are signatories to the Cooperative Funding Agreement (CFA) and will be signatories to a future inter-municipal agreement (IMA). The Town and City have both designated their Mayors and Vice Mayors as their Committee members.

The Committee will develop an agreed-upon list of basic principles for an IMA, which will be captured in this document, the Principles of Agreement (POA). It is anticipated that a draft POA will be developed by the Committee, which will then be brought to the Town Council and City Council for review and approval. The final POA would then be turned over to legal counsel from the Town and City to draft into an IMA for consideration by the Town Council and City Council.

City of Chico Municipal Code

The City of Chico has a provision in its municipal code Section 15.40.285—Regulation of Waste Received from Other Jurisdictions that specifically addresses handling wastewater from outside the city's sanitary sewer system. That code section is presented in its entirety at the end of this document.

Principles of Agreement

The Principles of Agreement are divided into 17 subject areas, as listed below. (Other subject areas may be added over time.) The first eight items reflect the eight items specified in Section 15.40.285. Over the course of its work, the Committee will develop specific agreed-upon statements (principles of agreement) for each of these items.

- 1. **Sewer Use Ordinance:** The Town will need to adopt a sewer use ordinance that parallels the City's sewer use ordinance. The POA could contain a commitment from the Town to have an ordinance completed by a certain milestone.
 - AGREED: The Town will adopt a sewer use ordinance that parallels the City's ordinance. The Town's ordinance shall be adopted and in place 30 days prior to the commencement of discharge into the Project.
- 2. **User Inventory**: The Town will need to submit an annual inventory of entities discharging into the sewer system. The POA could contain a statement to that effect.
 - AGREED: The Town will submit a quarterly inventory of entities discharging into its sewer system, classified by residential and commercial dischargers. This quarterly report will also contain an estimate of new connections estimated to occur over the upcoming 12 months, broken down by the same classifications.

This inventory will reflect data from July 1 through June 30 of each year, and will be submitted by August 1 of each year.

- AGREED: The Town will develop and administer a Sewer Application process, with two parts—a Town-reviewed portion for the collection system and a City-reviewed portion for treatment. The treatment portion will follow the existing City sewer application. If the proposed discharge exceeds the thresholds established in the pretreatment program (see below), it will have to treat its discharge to a sufficient degree to meet the City's pretreatment program requirements. Businesses would face the same pretreatment requirements, whether they are in Paradise or Chico.
- AGREED: The Town and the City agree to prohibit future connections to the export pipeline in the portion of the pipeline that sits outside of the Town limits or City limits.
- 3. Pretreatment: The City has an existing pretreatment program to monitor industrial/ commercial dischargers, which Town dischargers will need to meet. (The City has two employees conducting annual inspections of commercial/industrial dischargers.) The POA could contain a statement to that effect. In addition, the Town will need to decide whether to create and administer its own pretreatment program, or simply comply with the City's pretreatment program. Ultimately, the Town and City will need to determine who implements the various pretreatment activities for Paradise dischargers. The POA could contain the basic definition of these divisions of responsibility.
 - AGREED: The Town will follow the City's pretreatment program, including future changes; the Town will not develop a pretreatment program of its own. This includes the City's Fats, Oils & Grease (FOG) program. Dischargers would follow the City's pretreatment program application process, which includes setting monthly fees. Pretreatment program fees will be collected by the Town and conveyed to the City, similar to the process outlined in Item 10.
- Pretreatment Data Access: The Town will need to provide the City with all information it
 obtains related to the pretreatment activities. The POA could contain a statement to that
 effect.
 - AGREED: The Town will provide the City with all information it obtains relative to meeting the City's pretreatment program requirements.
 - AGREED: Paradise will contract with the City or hire and use qualified professionals (Industrial Waste Inspectors, testing, labs, etc.) to conduct its pretreatment activities. [Staff Input: This statement may no longer apply, given the decision made on Item 3—Pretreatment. Delete.]
- Wastewater Limits: The agreement will need to define limits on the volume and quality of Paradise wastewater discharged to the Chico Water Pollution Control Plant (WPCP). This will likely be addressed by the <u>City's CFA efforts</u>; the Committee would then review those

results and draft POA language. Town and City staff are currently awaiting results from the City's engineering consultant in order to draft suggested language for this item.

- AGREED: Associated with the treatment connection payment (described below), the Town of Paradise wastewater flow to the Chico WPCP will be limited to 0.464 million gallons per day (mgd) average dry weather flow (ADWF). ADWF will be calculated using criteria specified by the Central Valley Regional Water Quality Control Board in the Chico permit. It is anticipated that a majority of the wastewater discharges into the Paradise collection system will be of typical residential and commercial quality. However, all potential Town discharges will be subject to the Pretreatment requirements of this agreement, as specified in Section 3.
- 6. **Wastewater Monitoring**: The agreement will need to define how the volume and quality of Paradise wastewater will be monitored.
 - O AGREED: The Termination Structure, to be constructed as part of the Paradise Sewer Project, will contain wastewater monitoring equipment (e.g., flow meter, composite sampler). Because the City has staff familiar with this type of equipment, and because it has its own wastewater laboratory for testing wastewater samples, the flow metering and monitoring equipment will be operated and maintained by City staff, and samples will be processed in the City lab. Consideration will also be given to having some level of monitoring equipment at the upper end of the export pipeline. A payment will be negotiated at the start of the contract and paid annually by the Town to the City to cover the costs associated with these efforts.
- 7. **Access to Facilities**: The City will need to be granted access to the Town's wastewater facilities, including those within the Town's boundaries. The POA could contain a statement to that effect.
 - AGREED: The Town will grant the City access to the Town's wastewater facilities, including those within the Town's boundaries for purposes of inspection, sampling, and other duties deemed necessary by the City. The City will give the Town sufficient notice to allow the Town to arrange safe access to the facilities. The Town and City will look for efficient ways to jointly conduct inspections to minimize impacts to both entities' staff.
- 8. **Remedies for Breach of Agreement**: Like all legal agreements, the IMA will need to address how the parties would handle any breach of the agreement. This item might need input from Town and City attorneys, in order to draft appropriate POA language. These remedies will vary by the various required items in this POA.
 - AGREED: If disagreements exist between the Town and City attorneys regarding agreement language, those disagreements will be brought back to the Committee to attempt to resolve.

- 9. Treatment Connection Payment. A number of items need to be addressed related to the treatment connection payment to be paid by the Town for connecting to the Chico WPCP. These will likely be addressed by the <u>City's CFA efforts</u>; the Committee would then review those results and draft POA language. Items include:
 - How much should the initial connection payment be (e.g., for the initial Paradise flow or the ultimate flow)?
 - o If ongoing connection fees are to be collected for future connections, how much should they be (e.g., linked to the City of Chico's current connection fee schedule)?
 - How should they be collected and paid to the City of Chico (e.g., collected by the Town of Paradise on an ongoing basis and paid to the City of Chico quarterly)?
 - AGREED: The goal is to obtain funding for the treatment connection payment in a similar manner to the remainder of the Paradise Sewer Project. The payment is currently estimated at \$14.9 million (estimated as December 2026 dollars; as documented in "Regionalization Planning Report for the Paradise Sewer Project," Carollo Engineers, March 2022), which the Town of Paradise would pay to the City of Chico to cover treatment capital costs associated with a wastewater flow from the Town of 0.464 mgd ADWF (see ADWF definition above). From six to 12 months before the date of connection, the estimated treatment connection payment will be recalculated using the methodology established in the Carollo study. This payment is assumed to be made at the time that initial Paradise flows are sent to the Chico WPCP, currently estimated to start on or about December 2026.
- 10. Monthly User Fees. A number of items need to be addressed related to the monthly fees to be paid by the Town for discharging to the Chico WPCP. (Note: The City does not currently break its monthly fees into treatment and collection system components.) Items include:
 - o How much should the monthly user fees charged to the Town be (e.g., linked to the treatment portion of the City of Chico's current monthly user fees)?
 - AGREED: Assuming that the City establishes a treatment portion of its monthly user fee, the Town users will pay that treatment monthly user fee to the City. Town users will also pay a collection system monthly user fee to the Town associated with the Town's collection system and export pipeline O&M costs.
 - How should they be collected and paid to the City of Chico?
 - AGREED: The Town will collect the treatment monthly user fee from its users. The Town will submit the total treatment monthly user fee amount to the City on a [monthly/quarterly] basis. The Town will be responsible for collecting unpaid treatment monthly user fees from its users.

- o How should future rate updates be handled?
 - AGREED: As discussed above, the Town users will pay the treatment monthly user fee established in the City's fee schedule, including any future increases made to those fees. The assumption is that the City and Town users will pay the same monthly treatment fee based on the established fee schedule. Future increases will follow the Prop 218 process, including public noticing.
- [There is potential for power generation as the wastewater moves from Paradise down off the Ridge to Chico. Need to address potential for sharing any electrical generation revenue.]
 - AGREED: It is generally not practical to generate electricity from raw wastewater flows, especially intermittent flows that we will see in the export pipeline. Therefore, this item will not be addressed in the POA. [leave this item in the POA, to allow others to see the discussion/conclusion]
- [There is potential for Chico to treat its wastewater for recycling. Need to address the potential for revenue sharing.]
 - AGREED: Because the City's wastewater system operates as an "enterprise" fund, any income or cost resulting from water recycling will be incorporated into the City's connection fees and monthly user fees. This item can be stated in the POA as an item not included. [leave this item in the POA, to allow others to see the discussion/conclusion]
- o [Include a requirement for producing an annual financial report.]
 - AGREED: In general, wastewater costs and revenues will be captured in the annual budgets of both the Town and City. Also, the City will be provided the ability to audit the Town's financial records related to the collection of monthly treatment fees. Therefore, no separate annual financial report is needed.
- 11. **O&M of Facilities.** The Town will construct the export pipeline and a termination structure at or near the Chico WPCP. The Town would own the export pipeline. The POA would need to address who is responsible for O&M and future repairs/replacements of the export pipeline and termination structure at the Chico WPCP.
 - AGREED: It is anticipated that the Town will own the entire export pipeline and will provide all operation and maintenance associated with it, with the exception of wastewater monitoring efforts, which are described in item 6 above.
 - [It may work best to develop a separate "O&M Agreement" to cover all of the various items related to operating costs.]

- AGREED: The City and Town intend to develop an inter-municipal agreement based on these Principals of Agreement. In the future, if O&M items arise and warrant it, the two parties may wish to develop an O&M Agreement. For example, one item that might arise is that the Town might wish to contract with the City to provide some O&M services on the export pipeline, given that the City has on-staff expertise in this area.
- 12. Term and Termination of the Agreement. [Need to develop the term and termination of the agreement. The term of the agreement should match any financing requirements and/or the lifespan of the infrastructure. Also need to address how to handle disaster scenarios. This item might need input from Town and City attorneys, in order to draft appropriate POA language.]
- 13. "Revisit" Clause. [Need to develop a statement that allows for an evolution of the roles and responsibilities established in this document. For example, in the future, if the Town grows to a size that it makes sense for it to create and run its own pretreatment program, the document should allow for that to happen. This item will need input from Town and City attorneys.]

[ADDITIONAL ITEMS 14, 15, and 16 came from "Crafting Interlocal Water and Wastewater Agreements," UNC Environmental Finance Center, 2019. Text in quotes is taken from that document]

- 14. **Service Area Boundary**. "When two or more service providers agree to buy or sell water services to one another, it is extremely important to remove as much ambiguity as possible about current and future service areas." Identify the service area boundary as the Town of Paradise town limits. The Sphere of Influence and Town/City limits may change...
 - O AGREED: This item relates to the potential for the two entities to have adjacent or overlapping service area boundaries. The Town of Paradise and the City of Chico will not overlap with respect to providing wastewater services. In the future, spheres of influence could overlap (although this is extremely unlikely). If that situation arises, it should be addressed at that time. [Ask the attorneys for their input, including if language should be included on this subject in the intermunicipal agreement.]
- 15. **Notice Requirements for Fee Changes**. "The contract should also include language to cover notice requirements or any other processes related to when and how rates will be changed. If there will be a process for modifying rates in the future, the parties should contemplate what shall constitute reasons to justify modification."
 - AGREED: In California, formal notification to citizens regarding fee increases is covered by Prop 218. If the City is considering a fee update, City staff will inform the Town Council of an upcoming fee adjustment process.

- 16. Excessive Inflow and Infiltration. "Inflow and infiltration (I&I) can be a big problem for wastewater interlocal agreements. If possible, partners should consider how to contract in language that will address how I&I should be handled."
 - o **AGREED:** Because the Town's collection system and export pipeline will be entirely new, the initial amount of I&I should be very low. Over time, it is possible I&I will increase. The Town of Paradise will monitor its wet weather flows each year and assess the level of I&I it is experiencing. If excessive I&I is seen, the Town will complete such corrective measures to eliminate excessive I&I as are reasonably demonstrated to be cost effective by studies conducted and funded by the Town. [Perhaps move this item up to Section 11--O&M of Facilities]
- 17. **Resolving Conflicts or Disagreements**. ["Regardless of how carefully an interlocal agreement may be contracted, there can still be conflict or disagreement, particularly when unanticipated needs or challenges arise. Parties to an agreement should anticipate the need to potentially negotiate at some point during the life of the agreement, and should build in language that lays out what process should be used." This item will need input from Town and City attorneys.]
 - [Note from Staff: The City of Folsom/SRCSD contract has extensive sample language for this item, which the attorneys can use if they wish to.]

City of Chico, Code Section 15.40.285

The City of Chico has a provision in its municipal code, Section 15.40.285—Regulation of Waste Received from Other Jurisdictions, that specifically addresses handling wastewater from outside the city's sanitary sewer system. Here is the code section in its entirety:

15.40.285 Regulation of Waste Received from Other Jurisdictions

If another municipality or user located within another municipality contributes wastewater to the city's sanitary sewer system, the director shall enter into an inter-municipal agreement with the contributing municipality. Prior to entering into an agreement, the director shall request the following information from the contributing municipality:

- 1. A description of the quality and volume of wastewater discharged to the city's sanitary sewer system by the contributing municipality;
- 2. An inventory of all users located within the contributing municipality that are discharging to the city's sanitary sewer system; and
 - 3. Such other information as the director may deem necessary.

An inter-municipal agreement shall contain the following conditions:

- 1. A requirement for the contributing municipality to adopt a sewer use ordinance which is at least as stringent as this ordinance and local limits, including required baseline monitoring reports which are at least as stringent as those set out in section 15.40.024. The requirement shall specify that such ordinance and limits must be revised as necessary to reflect changes made to the city's ordinance or local limits:
- 2. A requirement for the contributing municipality to submit a revised user inventory on at least an annual basis:
- 3. A provision specifying which pretreatment implementation activities, including wastewater discharge permit issuance, inspection and sampling, enforcement, will be conducted by the contributing municipality; which of these activities will be conducted by the director; and which of these activities will be conducted jointly by the contributing municipality and the director;
- 4. A requirement for the contributing municipality to provide the director with access to all information that the contributing municipality obtains as part of its pretreatment activities;
- 5. Limits on the nature, quality, and volume of the contributing municipality's wastewater at the point where it discharges to the city's sanitary sewer system;
 - 6. Requirements for monitoring the contributing municipality's discharge;
- 7. A provision ensuring the director access to the facilities of the users located within the contributing municipality's jurisdictional boundaries for the purpose of inspection, sampling, and other duties deemed necessary by the director; and
- 8. A provision specifying the remedies available for breach of the terms of the inter-municipal agreement.

Exhibit 2 - City of Chico Sewer Use Ordinance ARTICLE II. DISCHARGE RESTRICTIONS

15.40.020 General prohibitions.

No user shall introduce or cause to be introduced into the city's sanitary sewer system any pollutant or wastewater which causes pass through or interference. These general prohibitions apply to all users of the city's sanitary sewer system whether or not they are subject to categorical pretreatment standards or any other federal, state, or local pretreatment standards or requirements.

(Ord. 2481 §1 (part))

15.40.021 Specific prohibitions.

No user shall introduce or cause to be introduced into the city's sanitary sewer system any of the following pollutants, substances, or wastewater:

- 1. Pollutants which create a fire or explosive hazard in the city's sanitary sewer system with a closed cup flashpoint of less than 140° degrees Fahrenheit (60 degrees centigrade) using the test methods specified in 40 CFR Part 261.21. Prohibited materials include, but are not limited to, gasoline, kerosene, naphtha, benzene, toluene, xylene, ethers, alcohols, ketones, aldehydes, peroxides, chlorates, perchlorates, bromates, carbides, hydrides, or sulfides. Closed cup flashpoint values may be found in the National Institute of Occupational Safety and Health (NIOSH) *Pocket Guide to Chemical Hazards*;
- 2. Wastewater having a pH lower than 5.0 or more than 11.5, or otherwise capable of causing damage or hazard to the city's sanitary sewer system;
- 3. Solids or viscous substances, including, but not limited to, fats, oils, or grease, garbage with particles greater than one-half inch in any dimension, animal guts or tissues, paunch manure, bones, hair, hides or fleshings, entrails, whole blood, feathers, ashes, cinders, sand, spent lime, stone or marble dust, metal, glass, straw, shavings, grass clippings, rags, spent grains, spent hops, wastepaper, wood, plastics, gas, tar, asphalt residues, residues from refining or processing of fuel or lubricating oil, mud, or glass grinding or polishing wastes, which may cause obstruction of flow in the sewer or other inference with the operation of the city's sanitary sewer system;
- 4. Pollutants including oxygen demanding pollutants (BOD, COD, etc.) released in a discharge at a flow rate and/or pollutant concentration which, either singly or by interaction with other pollutants, will cause interference to the city's sanitary sewer system;
- 5. Wastewater having a temperature greater than 140 degrees Fahrenheit (60 degrees centigrade), or which will inhibit biological activity in the water pollution control plant resulting in interference, but, in no case, wastewater which causes the temperature, at the introduction into the water pollution control plant which to exceeds 140 degrees Fahrenheit (60 degrees centigrade);
- 6. Petroleum oil, nonbiodegradable cutting oil, or products of mineral oil origin that will cause interference or pass through;
- 7. Pollutants which result in the presence of toxic gases, vapors or fumes within the city's sanitary sewer system in a quantity that may cause acute worker health and safety issues;
 - 8. Trucked or hauled wastes, except at discharge points designated by the director;
- 9. Noxious or malodorous liquids, gases, or solids, which either singly or by interaction with other wastes, are sufficient to create a public nuisance or hazard to life, or are sufficient to prevent entry into the city's sanitary sewer system for maintenance and repair:
- 10. Wastewater that may cause a detrimental environmental impact or nuisance in the waters of the state or United States that is unacceptable to any public agency having regulatory jurisdiction over the city;
- 11. Wastewater which imparts color which cannot removed in the treatment process, such as, but not limited to, dye wastes and vegetable tanning solutions;
- 12. Wastewater causing two readings on an explosion hazard meter at the point of discharge into the city's sanitary sewer system (or at any point in the city's sanitary sewer system) of more than five (5) percent nor any single reading over ten (10) percent of the lower explosive limit (LEL) of the meter. Prohibited materials include, but are not limited to, gasoline, kerosene, naphtha, benzene, toluene, xylene, ethers, alcohols, ketones, aldehydes, peroxides, chlorates, perchlorates, bromates, carbides, hydrides, sulfides, and any other substances in any quantity or concentration that the city, state, or USEPA has notified the user are a fire hazard or a hazard to the city's sanitary sewer system;
- 13. Wastewater containing algaecides, fungicides, antibiotics, insecticides, strong oxidizing agents or strong reducing agents in such quantity or strength as to cause or contribute to violations of the city's NPDES permit discharge restrictions, interference with or upset of the city's sanitary sewer system, or personnel safety hazards;
 - 14. Medical waste, except as specifically authorized by the director, in a wastewater discharge permit;
 - 15. Wastewater requiring an excessive quantity of chlorine or other chemical compound used for disinfection purposes;

Exhibit 2 - City of Chico Sewer Use Ordinance

- 16. Wastewater containing radioactive wastes or isotopes of such half-life or concentration as may exceed limits established by the director in compliance with any applicable state or federal regulations;
 - 17. Wastewater that causes a hazard to human life or creates a public nuisance;
- 18. Wastewater containing toxic pollutants, gases, vapors, or fumes in sufficient quantity, which either singly or by interaction with other pollutants, may injure or interfere with any wastewater treatment process, cause acute worker health and safety problems, constitute a hazard to humans or animals, create a toxic effect in the receiving waters of the city's sanitary sewer system, result in exceedances of biosolids disposal restrictions, or exceed the limitation set forth in a pretreatment standard or requirement. A toxic pollutant shall include, but not be limited to, any pollutant identified pursuant to section 307(a) of the Act;
- 19. Stormwater, rainwater, groundwater, street drainage, subsurface drainage, yard drainage, and cooling water, including evaporative type air cooler discharge water and noncontact cooling water;
- 20. Wastewater containing sulfides in sufficient quantity or strength as to cause or contribute to corrosion in the city's sanitary sewer system or violations of the city's NPDES permit; or
 - 21. Discharges which, if otherwise disposed of, would be a hazardous waste under 40 CFR Part 261.

Pollutants, substances, or wastewater prohibited by section 15.40.021 of this chapter shall not be processed or stored in such a manner that they could be discharged into the city's sanitary sewer system.

(Ord. 2481 §1 (part))

15.40.022 National categorical pretreatment standards.

Users must comply with the categorical pretreatment standards found in 40 CFR Chapter I, Subchapter N, sections 405-471, as amended.

Upon the promulgation of categorical pretreatment standards for a particular industrial subcategory, the categorical pretreatment standards, if more stringent than limitations imposed under this chapter for sources in that subcategory, shall immediately supersede the limitations imposed under this chapter. The director shall attempt to notify all known affected users of the applicable reporting requirements under 40 CFR Part 403.12, or other applicable pretreatment requirements. Provided, however, that in no case shall the failure of the director to notify a user constitute a defense to noncompliance with any such requirement, statute or regulations, or to noncompliance with the provisions of this chapter.

Modifications to the categorical pretreatment standards may occur under the following situations:

- 1. Where the city's sanitary sewer system achieves consistent removal of pollutants limited by pretreatment standards, the director may apply to the Administrator for modification of specific limits in the pretreatment standards. Upon approval from the Administrator, the director may modify pollutant discharge limits in the pretreatment standards if the requirements contained in 40 CFR Part 403.7 are fulfilled.
- 2. When the limits in a categorical pretreatment standard are expressed only in terms of either the mass or the concentration of a pollutant in wastewater, the director may impose equivalent concentration or mass limits in accordance with 40 CFR Part 403.6(c).
- 3. When wastewater subject to a categorical pretreatment standard is mixed with wastewater not regulated by the same standard, the director shall impose an alternate limit, using the combined wastestream formula in 40 CFR Part 403.6(e).
- 4. A user otherwise classified as a CIU may obtain a variance from a categorical pretreatment standard if the user can prove, pursuant to the procedural and substantive provisions in 40 CFR Part 403.13, that factors relating to its discharge are fundamentally different from the factors considered by USEPA when developing the categorical pretreatment standard.
- 5. A CIU may obtain a net gross adjustment to a categorical pretreatment standard in accordance with 40 CFR Part 403.15.

(Ord. 2481 §1 (part))

15.40.023 State pretreatment standards.

Users must comply with all applicable state pretreatment standards.

(Ord. 2481 §1 (part))

15.40.024 Local limits.

The director is authorized to establish local limits pursuant to 40 CFR Part 403.5(c). Local limits are established to protect against pass through and interference. No wastewater discharge shall exceed the local limits as determined by the director pursuant to section 15R.40.010 of this code.

The local limits apply at the point where wastewater is discharged into the city's sanitary sewer system. The director may impose mass limitations in addition to or in lieu of the concentration-based limitations above.

director may develop BMPs, by ordinance, or in wastewater discharge permits, to implement the local limits and

Exhibit 2 - City of Chico Sewer Use Ordinance

requirements of sections 15.40.020 and 15.40.021.

(Ord. 2481 §1 (part))

15.40.025 City's right of revision.

The city reserves the right to establish, by ordinance or wastewater discharge permit, more stringent standards or requirements on discharges to the city's sanitary sewer system, if deemed necessary to comply with the objectives of this chapter or the Act.

(Ord. 2481 §1 (part))

15.40.026 Excessive discharge/dilution.

No user shall increase the use of process water or in any way attempt to dilute a discharge as a partial or complete substitute for adequate treatment to achieve compliance with the discharge limitations contained in the pretreatment standards or requirement.

The director may impose mass limitations on users who are using dilution to meet applicable pretreatment standards or requirements, or in other cases when the imposition of mass limitations is appropriate.

(Ord. 2481 §1 (part))

Exhibit 3 - City of Chico Pretreatment of Wastewater Ordinance

ARTICLE III. PRETREATMENT OF WASTEWATER

15.40.027 Pretreatment facilities.

Users who are CIUs, SIUs, or who are required by the director to obtain an industrial wastewater discharge permit shall provide wastewater pretreatment as necessary to comply with this chapter and shall achieve compliance with all categorical pretreatment standards and pretreatment requirement, local limits, and the prohibitions of this chapter within the time limitations specified by USEPA, the state, or the director, whichever is more stringent. Any facilities necessary for compliance shall be provided, operated, and maintained at the user's expense. Detailed plans describing such facilities and operating procedures shall be submitted to the director for review, and shall be acceptable to the director before such facilities are constructed. The review of such plans and operating procedures shall in no way relieve the user from the responsibility of modifying such facilities as necessary to produce a discharge acceptable to the city under the provisions of this chapter. Subsequent changes in the pretreatment facilities or method of operation shall be reported to and acceptable to the director prior to the user's initiation of the changes.

(Ord. 2481 §1 (part))

15.40.030 Interceptors.

1. An interceptor shall be installed in a user's building sewer when in the opinion of the director it is necessary for the proper handling of wastewater containing grease or oil in excessive amounts, sand, grit or other harmful substances; except that such interceptors shall not be required for buildings used solely for residential purposes. Provided, however, that interceptors shall be constructed in any place or building having a capacity to serve group meals and in commercial and industrial cleaning facilities.

Where the director requires the installation of an interceptor by a user who is neither an SIU nor a CIU, the user shall also be required to obtain a pollution prevention permit. Typical users required to install an interceptor and obtain a pollution prevention permit include, but are not limited to, restaurants, cafes, lunch counters, cafeterias, bars and clubs; hotels, hospitals, sanitariums, factory or school kitchens, equipment repair shops, service stations, and other establishments where grease, oils, sand, or grit may be introduced into the city's sanitary sewer system in quantities that can obstruct the sewer or hinder wastewater treatment or private wastewater disposal.

- 2. All interceptors shall be of a type and capacity approved by the director and shall be so located as to be readily and easily accessible for cleaning and inspection. Interceptors shall be constructed of impervious materials capable of withstanding abrupt and extreme changes in temperature. They shall be of substantial construction, water-tight and equipped with easily removable covers which, when bolted in place, are gas- and water-tight. All interceptors shall be maintained by the user, at the user's expense, in continuously efficient operation at all times.
- 3. Each user shall regularly inspect, clean, and repair interceptors. Records of inspections, cleaning and repairs, and the costs associated with these actions shall be kept for a minimum of three (3) years and be made available for inspection by city personnel upon request. Debris from interceptors shall be disposed of through a licensed waste hauler. Waste disposal records, including receipts, shall be kept for a minimum of three (3) years and be made available for inspection by city personnel upon request.
 - 4. All interceptors shall comply with the following standards:
 - a. Plans shall be submitted to and approval obtained from the director prior to the installation of any interceptor.
- b. All drains from kitchen areas including pre-wash shall be connected to an interceptor. Toilets, lavatories and other sanitary fixtures shall not be connected to any interceptor.
- c. All fixtures discharging into an interceptor shall be individually trapped and vented in a manner approved by the director.
- d. Each interceptor shall be so installed and connected that it shall be at all times easily accessible for inspection, cleaning, and removal of the intercepted material.
- e. Interceptors shall be maintained in efficient operating condition by periodic removal of the accumulated materials. No such collected material shall be introduced into any drainage piping, public or private, or discharged to the city's sanitary sewer system.
- f. Each interceptor shall be constructed of durable materials satisfactory to the director and shall have a full-size gastight cover which can easily and readily be removed.
- g. Interceptors required by this chapter shall not be installed until the type and/or model has been subjected to, and has fully complied with, tests acceptable to the director. Where existing conditions are found acceptable as determined by the director, such facilities as presently exist will be allowed to remain in use. Whenever it shall come to the attention of the director that any interceptor is no longer acceptable or does not comply with the provisions of this section, the director shall suspend or revoke such approval and require corrective measures.

(Ord. 2481 §1 (part))

Exhibit 3 - City of Chico Pretreatment of Wastewater Ordinance

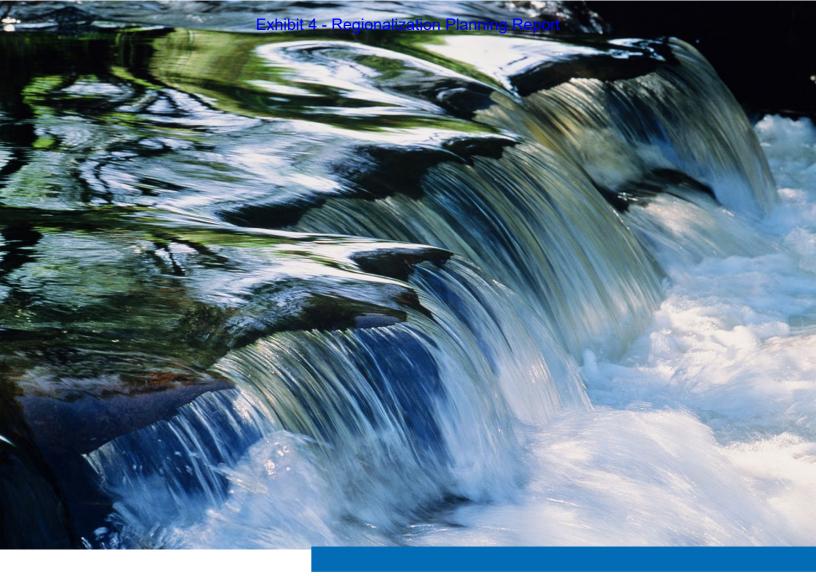
- 1. The director shall evaluate whether each SIU needs an accidental spill and slug control plan or other action to control slug discharges. The director may require any user develop, submit for approval, and implement such a plan or take other such action that may be necessary to control slug discharges. Alternatively, the director may develop such a plan for any such user. An accidental discharge/slug discharge control plan shall address, at a minimum, the following:
 - a. Description of discharge practices, including non-routine batch discharges;
 - b. Description of stored chemicals;
- c. Procedures for immediately notifying the director of any accidental or slug discharge, as required by section 15.40.350; and
- d. Procedures to prevent adverse impact from any accidental or slug discharge. Such procedures include, but are not limited to, inspection and maintenance of storage areas, handling and transfer of materials, loading and unloading operations, control of plant site runoff, worker training, building of containment structures and equipment, measures for containing toxic organic pollutants, including solvents, and/or measures and equipment for emergency response.
- 2. Each user required to have an accidental spill and slug discharge control plan shall provide protection from spills or accidental discharges of prohibited materials or other substances regulated by this chapter. Facilities to prevent accidental discharge of prohibited materials shall be provided and maintained at the user's own cost and expense. Detailed plans showing facilities and operating procedures to provide this protection shall be submitted to the director for review, and shall be approved by the director before construction of the facility.
- 3. Each user required to have an accidental spill and slug discharge control plan shall permanently post a notice on a bulletin board or other prominent place within the user's place of business advising employees whom to call in the event of spill, slug discharge or an accidental discharge. Users shall ensure that all employees who may cause or suffer such spills or slug discharges to occur are advised of the emergency notification procedures.

(Ord. 2481 §1 (part))

15.40.140 Maintenance of side sewers.

All users shall keep that portion of their side sewer in good repair, at their own expense, and shall be liable for any damages which may result from their failure to do so.

(Ord. 2481 §1 (part))





Regionalization Planning Report for the Paradise Sewer Project

Prepared under the Cooperative Funding Agreement between the City of Chico and the Town of Paradise

FINAL | May 2022





City of Chico

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Abbreviations

AA average annual

AAFPF AAF Peaking Factor

ADWF average dry weather flow
BOD biochemical oxygen demand
BOD₅ biochemical oxygen demand

CCBs chlorine contact basins

City City of Chico

CSU California State University

CT chlorine contact

DAFT dissolved air flotation thickener

DBP disinfection byproducts

DEHP Di-2-ethylhexyl phthalate

EPA Environmental Protection Agency

gpcd gallons per capita day

gpd/ft² gallons per day per square foot

gph gallons per hour gpm gallons per minute

hp horsepower

HRT hydraulic residence time

lb/daypounds per dayMGmillion gallonsmg/Lmilligrams per litermgdmillion gallons per day

mL milliliter

ML mixed liquor

MLE Modified-Ludzack Ettinger

MLR mixed liquor recycle
MM maximum monthly
MMF maximum month flow

MMFPF maximum month flow peaking factor

MPN most probable number

NH₃ ammonia

NPDES National Pollutant Discharge Elimination System

Paradise Town of Paradise

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PF peak flow

PFPF peak flow peaking factor

psig pounds per square inch gauge

PSRP Process to Significantly Reduce Pathogens

RAS return activated sludge

RWQCB Regional Water Quality Control Board

SBS sodium bisulfite solution

SCADA supervisory control and data acquisition

scfm standard cubic feet per minute
SHS sodium hypochlorite solution
SIU significant industrial user
SNB Sierra Nevada Brewery

SOI sphere of influence

SRPAC Sewer Regional Project Advisory Committee

SVI sludge volume index

SWRCB State Water Resources Control Board

TSS total suspended solids

UV ultraviolet

UVT ultraviolet transmittance WAS waste activated sludge

WDR waste discharge requirement
WPC Water Pollution Control Plant



Chapter 1

EXECUTIVE SUMMARY

1.1 Introduction

The Town of Paradise (Paradise) has studied options for treatment and disposal of the wastewater produced within the Town's service boundary for many years, limited by high groundwater, lack of available land, and poor soils. The absence of a viable wastewater solution has restricted residential and commercial growth within the Town's sewer service area and has threatened underlying groundwater supplies due to imminent failure of aging septic systems.

The City of Chico (City) provides wastewater collection, treatment, and disposal service for residents within the City's service area. The City population grew by almost 20 percent in 2019 due to Camp Fire¹ victim relocations, but the City did not see a proportional revenue growth for increased wastewater flows due to limited housing supplies (more people were living in shared houses).

The Paradise Sewer Project is a wastewater regionalization project that creates a solution for Paradise's wastewater issues, in turn relieving some of the pressure that the City has remained under since the Camp Fire. The purpose of this report is to quantify the impact that the Paradise sewer connection would have on the City's WPCP, define the facility needs for increased treatment associated with the Paradise connection and the City's continued growth, and create a basis for negotiation of a connection payment between the City and Paradise.

1.2 Background

1.2.1 Previous Planning Effort

The City initiated a WPCP planning effort in 2018 to evaluate facility needs related to condition, capacity, and regulatory requirements (near- and longer-term) as a basis for adjustments to the City's sewer service rates. During completion of this effort, the City experienced several planning changes, including significant impacts related to the 2018 Camp Fire and the 2019 Coronavirus Pandemic. Planning efforts were eventually summarized in the WPCP Strategic Planning Report 2 in February 2021 as a means for jump starting the sewer service rate adjustments currently underway, but the findings of that report had limited use for this effort for several reasons:

- The baseline population used for planning was no longer accurate.
- The population growth projection assumption was inadequate based on recent observations by the City and an increase in planned development within the City's sphere of influence (SOI).

¹ The Camp Fire was the deadliest and most destructive wildfire in California's history, and the most expensive natural disaster in the world in terms of losses.

² (Carollo Engineers, Inc. 2021)

- Future sewer flows from the Town of Paradise had not been accounted for.
- Increased flows now expected from California State University, Chico which had not been accounted for.
- The planning period for the WPCP Strategic Planning Report³ effort only extended to 2040, while the planning period for the Paradise Sewer Project ended in 2057.

This report provides updated planning results that incorporate these changes, providing an updated basis for planning for the City and Paradise.

1.2.2 Facility Improvement Categories

There are three main categories related to facility improvements referenced within this planning document, each with differing project triggers and associated timelines. These project categories include:

- Capacity-Driven Facility Needs: Projects in this category include improvements required to extend both treatment capacity and hydraulic capacity to account for the total City and Paradise influent loading (discussed in Chapter 4).
- Regulatory-Driven Facility Needs: Projects in this category are predicated on potential
 water quality regulation requirements anticipated in future NPDES permit renewals
 (discussed in Chapter 5).
- Condition-Driven Facility Needs: Condition-driven facility needs were determined through completion of a detailed multidiscipline condition assessment conducted April 25 to 26, 2018 (summarized in Chapter 6).

The previous planning effort also included a detailed "strategic planning" effort based on the City's goals for sustainability and long-term resilience. Those findings are not adjusted in this report but should be revisited as the City gets closer to implementation of a chosen alternative.

1.3 Summary of Capacity-Driven Facility Needs

Table 1.1 includes a summary of recommended projects based on anticipated capacity-driven facility needs through 2057, along with predicted timelines for implementation of each and planning level construction and project cost estimates (presented in December 2021 dollars).

Table 1.1 Summary of Capacity-Driven Facility Needs

Projected Timeline for Implementation	Project Description	Estimated Construction Cost ⁽¹⁾⁽²⁾	Estimated Project Cost ⁽¹⁾⁽³⁾
2028	Secondary Clarifier #6 ⁽⁴⁾ (fourth clarifier in Plant 2)	\$8,000,000	\$10,700,000
2032	Supplemental Carbon Project	\$300,000	\$400,000
2033	Chlorine Contact Basin	\$4,100,000	\$5,100,000
2033	Chemical Storage and Feed Facility Improvements (SHS and SBS)	\$1,300,000	\$1,600,000

³ (Carollo Engineers, Inc. 2021)





Projected Timeline for Implementation	Project Description	Estimated Construction Cost ⁽¹⁾⁽²⁾	Estimated Project Cost ⁽¹⁾⁽³⁾
2036	Southern Pond Improvements for Secondary Expansion	\$700,000	\$900,000
2036	Secondary Clarifier #7 ⁽⁵⁾ (fifth clarifier in Plant 2)	\$10,000,000	\$13,400,000
2036	RAS/WAS Pump Station and Electrical Building ⁽⁶⁾	\$1,300,000	\$1,600,000
2038	Parallel Force Main Improvements	\$800,000	\$1,100,000
2039	Secondary Clarifier #8 ⁽⁵⁾ (sixth clarifier in Plant 2)	\$10,000,000	\$13,400,000
2044	Aeration Tank #5 ⁽⁷⁾	\$11,700,000	\$15,600,000
2044	Blower and Electrical Building $^{(6)}$	\$5,000,000	\$6,300,000
2044	Standby Generator	\$1,200,000	\$1,500,000
2045	Primary Clarifier #4	\$3,700,000	\$5,000,000
2053	Aeration Tank #6 ⁽⁷⁾	\$11,700,000	\$15,600,000
2054	Primary Effluent Lift Station Improvements	\$1,700,000	\$2,100,000
2054	Bar Screen #3	\$500,000	\$600,000
	Total Required Capital Investment	\$72,000,000	\$94,900,000

Notes:

- (1) Costs are in December 2021 dollars based on ENR-CCI CCI of 12482.
- (2) Includes estimating contingency of 40% applied to total direct cost, general conditions and contractor overhead and profit contingencies at 18% of total direct cost (each), and local sales tax of 7.25% applied to half of the total direct cost.
- (3) Includes project cost factor of 35% for legal, administration, permitting, design, and engineering services during construction.
- (4) 100-foot diameter secondary clarifier.
- (5) 125-foot diameter secondary clarifier.
- (6) Based on Secondary Treatment Expansion Option 3 layout (Chapter 4).
- (7) With denitrification improvements (MLE).

1.4 Summary of Regulatory-Driven Facility Needs

Table 1.2 includes a summary of recommended projects based on reasonably anticipated regulatory-driven facility needs through 2057, along with predicted timelines for implementation of each, and planning level project cost estimates (presented in December 2021 dollars).

Table 1.2 Summary of Recommended Project and Project Costs

Projected Timeline for Implementation	Project Description	Estimated Construction Cost ⁽¹⁾²⁾	Estimated Project Cost ⁽¹⁾⁽³⁾
2027	Emergency Effluent Bypass, Storage, and Return Improvements (NE Pond) ⁽⁴⁾	\$7,050,000	\$8,460,000
2032	Modified MLE process upgrades ⁽⁵⁾	\$3,620,000	\$4,350,000
2042	Tertiary Filtration Upgrades ⁽⁶⁾	\$16,830,000	\$22,710,000
2047	Alternate Disinfection ⁽⁷⁾	\$30,200,000	\$40,800,000
	Total Required Capital Investment	\$57,700,000	\$76,320,000

Notes

- (1) Costs are in December 2021 dollars based on ENR-CCI CCI of 12482.
- (2) Includes estimating contingency of 40% applied to total direct cost, general conditions and contractor overhead and profit contingencies at 18% of total direct cost (each), and local sales tax of 7.25% applied to half of the total direct cost.
- (3) Includes project cost factor of 35% for legal, administration, permitting, design, and engineering services during construction.
- (4) Includes pipeline between outfall box and Northeast Pond, a pump station for pump back to Headworks, and civil improvements to deepen the pond for 25 MG of storage.
- (5) In-basin improvements to existing aeration tanks in Plant 2.
- (6) Assumes cloth disk filtration, sized for peak flow at 39.6 mgd.
- (7) Assume UV disinfection, sized for peak flow of 39.6 mgd.

1.5 Summary of Condition-Driven Facility Needs

Table 1.3 includes a summary of total costs for near-term and long-term projects based on observed condition-driven needs at the facility through 2040 (presented in December 2021 dollars). Refer to Chapter 6 for additional details.

Table 1.3 Summary of Recommended Project and Project Costs

Projected Timeline for Implementation	Project Description ⁽¹⁾	Total Estimated Project Cost ⁽²⁾
<5 years	Near-term condition-driven projects	\$10,580,000
2025-2039	Long-term condition-driven projects	\$34,060,000
	Total Required Capital Investment	\$44,640,000

Notes:

- (1) Refer to Chapter 6 for additional detail.
- (2) Costs are in December 2021 dollars based on ENR-CCI CCI of 12482.

1.6 Summary of Findings – Capital Needs

An assessment of the hydraulic and treatment capacity of existing facilities at the WPCP indicates that significant improvements will be required to accommodate projected increases in wastewater flow and loading over the planning horizon. Table 1.4 includes a summary of recommended projects to address capacity short-comings, along with condition-driven and regulatory-driven facility needs identified for the WPCP.



Summary of Recommended Project and Project Costs Table 1.4

Projected Timeline for Implementation	Capacity Improvements	Project Driver	Estimated Project Cost ⁽¹⁾
2021	Aeration and Primary Treatment Upgrades Recommended by 2023 ⁽²⁾	Condition	\$1,870,000
2022	Disinfection, Chemical Building, Solids Thickening and Dewatering, Plant Power Systems, and Other Plant Systems Upgrades Recommended by 2023 ⁽²⁾	Condition	\$2,670,000
2023	Solids Digestion Upgrades Recommended by 2023 ⁽²⁾	Condition	\$2,370,000
2025	Primary Treatment Upgrades Recommended by 2025 ⁽²⁾	Condition	\$3,680,000
2025	Recycled Water Feasibility Study	Strategic	\$530,000
2027	Emergency Effluent Bypass, Storage, and Return Improvements	Regulatory	\$8,460,000
2027	Condition Driven Upgrades Recommended in 2027 ⁽²⁾	Condition	\$7,640,000
2028	Secondary Clarifier #6 ⁽³⁾ (fourth clarifier in Plant 2)	Capacity	\$10,700,000
2028	Condition Driven Upgrades Recommended in 2028 ⁽²⁾	Condition	\$3,240,000
2029	Condition Driven Upgrades Recommended in 2029 ⁽²⁾	Condition	\$5,390,000
2032	Modified MLE process upgrades	Regulatory	\$4,350,000
2033	Condition Driven Upgrades Recommended in 2033 ⁽²⁾	Condition	\$3,520,000
2032	Supplemental Carbon Project	Capacity	\$400,000
2033	Chlorine Contact Basin	Capacity	\$5,100,000
2033	Chemical Storage and Feed Facility Improvements (SHS and SBS)	Capacity	\$1,600,000
2036	Southern Pond Improvements for Secondary Expansion	Capacity	\$900,000
2036	Secondary Clarifier #7 ⁽⁴⁾ (fifth clarifier in Plant 2)	Capacity	\$13,400,000
2036	RAS/WAS Pump Station and Electrical Building ⁽⁵⁾	Capacity	\$1,600,000
2038	Parallel Primary Effluent Force Main Improvements	Capacity	\$1,100,000
2039	Secondary Clarifier #8 ⁽⁴⁾ (sixth clarifier in Plant 2)	Capacity	\$13,400,000

Projected Timeline for Implementation	Capacity Improvements	Project Driver	Estimated Project Cost ⁽¹⁾
2039	Condition Driven Upgrades Recommended in 2039 ⁽²⁾	Condition	\$10,460,000
2040	Anaerobic Digester 3 ⁽²⁾	Condition	\$3,800,000
2042	Tertiary filtration ⁽⁶⁾	Regulatory	\$22,710,000
2044	Aeration Tank #5 ⁽⁷⁾	Capacity	\$15,600,000
2044	Blower and Electrical Building ⁽⁵⁾	Capacity	\$6,300,000
2044	Standby Generator	Capacity	\$1,500,000
2045	Primary Clarifier #4	Capacity	\$5,000,000
2047	Alternate Disinfection(6)	Regulatory	\$40,800,000
2053	Aeration Tank #6 ⁽⁷⁾	Capacity	\$15,600,000
2054	Primary Effluent Lift Station Improvements	Capacity	\$2,100,000
2054	Bar Screen #3	Capacity	\$600,000
	Total Required Capital Investment		\$216,360,000

Notes:

- (1) Costs are in December 2021 dollars based on ENR-CCI CCI of 12482.
- (2) Refer to Chapter 6 for condition-driven project specific details.
- (3) 100-foot diameter secondary clarifier.
- (4) 125-foot diameter secondary clarifier.
- (5) Based on Secondary Treatment Expansion Option 3 layout (Chapter 4).
- (6) Sized for peak flow of 39 mgd.
- (7) With denitrification improvements (MLE).

1.7 Connection Payment Calculation

Various options for the calculation of a connection payment between Paradise and the City were evaluated by a working group that included team members from both agencies. The following three connection payment calculation options were presented for SRPAC consideration in January 2022:

- Option 1: The ratio of total projected Paradise sewer flow (0.464 mgd) to the buildout flow projected for the WPCP (15.8 mgd) applied to each of the following (additive for total connection payment):
 - a. The calculated capacity-driven project cost.
 - b. The calculated condition driven project cost.
 - c. The estimated value of the existing WPCP Plant 2 facilities⁴.
- 2. Option 2: The calculated capacity-driven costs at the ratio of total projected Paradise sewer flow (0.464 mgal) to the added flow to build-out (7.4 mgd), plus the calculated condition-driven project costs at the ratio of the total projected Paradise sewer flow (0.464 mgd) to the current WPCP capacity (8.4 mgd).

⁴ Escalated from published Plant 2 valuation estimate in the Asset Valuation and Revenue Sufficiency Analysis (NHA Advisors, May 2016) using published historical average interest rates (2017-2021) and a projected average annual interest rate of 4.5% through December 2026.



Exhibit 4 - Regionalization Planning Report

REGIONALIZATION PLANNING REPORT FOR THE PARADISE SEWER PROJECT | CITY OF CHICO

3. Option 3: The calculated capacity-driven costs applied to the ratio of total projected Paradise sewer flow (0.464 mgd) to the added flow to build-out (7.4 mgd), plus the estimated value of the existing WPCP Plant 2 facilities applied to the ratio of the total projected Paradise sewer flow (0.464 mgd) to the current WPCP capacity (8.4 mgd).

In each case, the calculated costs were escalated from the December 2021 estimates to December 2026 projections, matching the planned timeline for sewer connection.

The third option was presented to the SRPAC in March 2022 as the recommended calculation methodology for the connection payment from Paradise to the City, with a draft total payment estimated at \$14.9 million (in December 2026 dollars). This methodology (and estimated connection payment value) was recorded in the draft Principles of Agreement, which is currently in final negotiation between Paradise and the City.



Chapter 2

FLOWS AND LOADS ANALYSIS

This Chapter presents an evaluation of historical wastewater flow and biochemical oxygen demand (BOD), total suspended solids (TSS), and ammonia loads entering the City of Chico's WPCP, and projections of future flow and load demands for the facility. Historical flow and loads are used to establish a baseline for flow and load projections used for planning of future facility needs.

2.1 Basis of Evaluation

The flow and load projections developed herein are based on an analysis of historical data reported during the period from May 2009 through May 2021. Historical flow and load data were compiled from WPCP operational observations and laboratory measurements (Appendix B). Other sources of data and information are cited throughout this Chapter.

These data were analyzed to develop baseline per-capita values for the average dry weather flow (ADWF) as well as the average annual (AA) load. Flow and load peaking factors were also developed from the analysis of the historical data. These per-capita values for ADWF and AA load were then used to develop projections through the end of the planning period, by applying the per-capita values to the projected population that would be contributing flow to the facility. Other flow and load parameters presented herein (e.g., maximum month) were projected by applying observed historical peaking factors to the projected ADWF and AA loads.

2.2 Background

2.2.1 Previous WPCP Facility Planning

Planning for WPCP facility needs has been accomplished in varying degrees since construction of the original facilities. The flow and load projections from the 2005 WPCP Facility Plan¹ are included herein for comparison to the updated projections developed for this effort. In the 2005 Facility Plan historical data between 1996 and 2001 was analyzed and the following flow projections were made:

- AA flows of 9 mgd in 2009.
- AA flows of 12 mgd in 2015.
- AA flows of 15 mgd at buildout.

These projections were made with the context of strong population growth assumptions (Table 2.4), significant industrial loading from Sierra Nevada Brewing Company (Section 2.3.3.1), and 100 percent connection of approximately 7,800 residences identified in the Nitrate Action Plan².

² (Butte County and City of Chico 1994)



¹ (Carollo Engineers, Inc. 2005)

An updated facility planning effort was initiated in 2018 to evaluate long-term facility needs related to condition, capacity, and regulatory requirements (near- and longer-term) as a basis for adjustments to the City's sewer service rates. During completion of this effort, the City experienced several planning changes, including significant impacts related to the Camp Fire in late 2018 and the COVID-19 pandemic beginning in late 2019.

That planning effort was eventually summarized in the WPCP Strategic Planning Report³ in February 2021 as a means for jump starting the ongoing sewer service rate adjustments.

The updated analysis presented herein reflects the City's effort to correct the previously unknown limitations reflected in the WPCP Strategic Planning Report⁴, which includes:

- An increase in the baseline population within the City's service area.
- Increased anticipated population growth rates.
- Increased flows due to planned development at the California State University, Chico.
- Increased sewer flows due to a possible future connection of the Town of Paradise sewer.

Updated WPCP needs presented herein are based on these updates, assume that the proposed connection of the Town of Paradise sewer to the City's WPCP will occur, and include planning through the year 2057 (to match the Town of Paradise planning period).

2.2.2 WPCP Service Area

As described in the Chico General Plan⁵, the City's planning efforts should address all land within the incorporated City limits, land within the City's designated sphere of influence (SOI), and other unincorporated land within Butte County (Figure 2.1). As discussed in Chapter 1, the Town of Paradise's new collection system is expected to be connected directly to the influent box at the WPCP by December 2026, at which point it will begin contributing to the WPCP's influent flow (Figure 2.2).

The WPCP is located approximately four miles southwest of downtown Chico and provides wastewater treatment and disposal services for most of the residences within the incorporated City of Chico and other residences in unincorporated areas of Butte County (Figure 2.3).



³ (Carollo Engineers, Inc. 2021)

^{4 (}Carollo Engineers, Inc. 2021)

⁵ (City of Chico; PMC 2017)

REGIONALIZATION PLANNING REPORT FOR THE PARADISE SEWER PROJECT | CITY OF CHICO

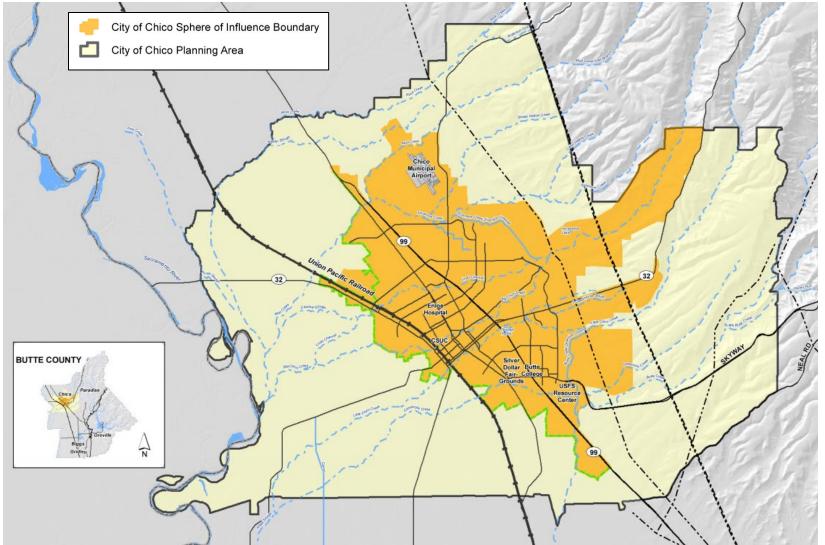


Figure 2.1 City of Chico Sphere of Influence & Planning Area

Image from City of Chico 2030 General Plan (City of Chico, 2021)

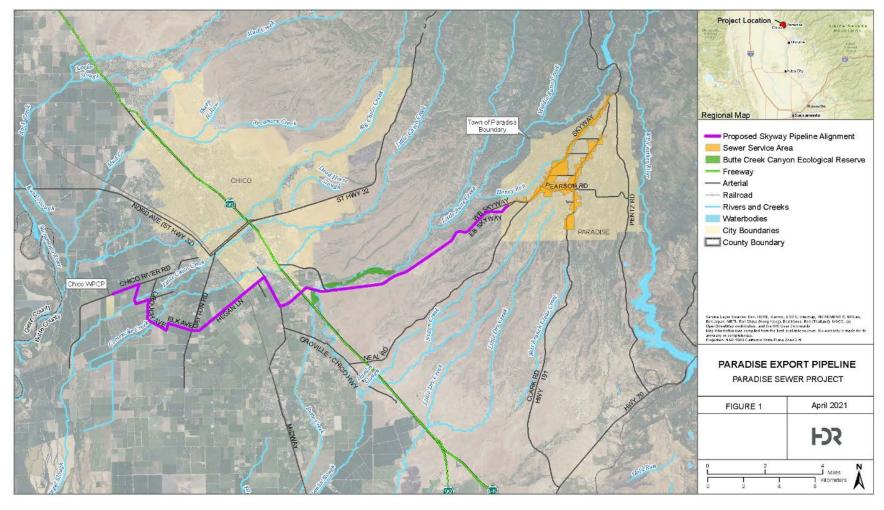


Figure 2.2 Town of Paradise Sewer Service Area and Proposed Export Pipeline

Image from Town of Paradise Sewer Project EIR Public Summary Report (Town of Paradise, 2021)



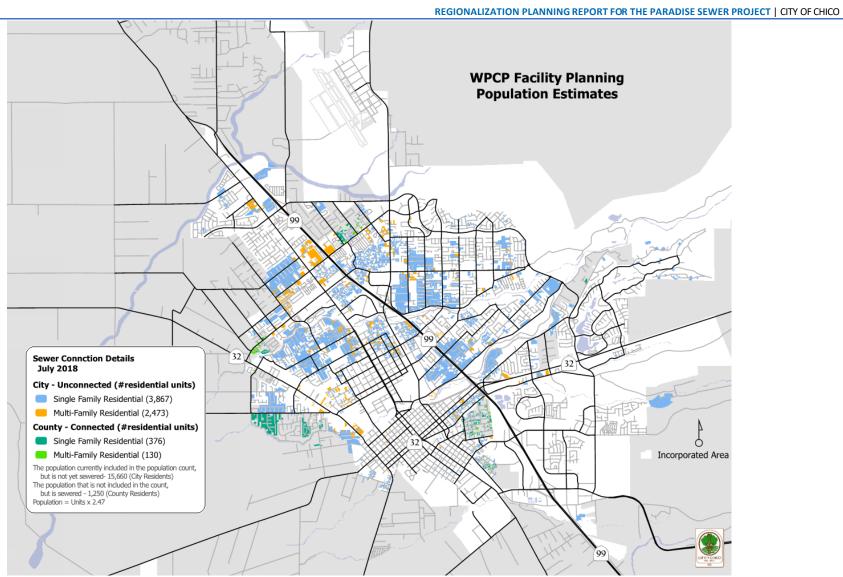


Figure 2.3 WPCP Service Area Population Details

Image received from the City of Chico (2021)





2.3 Historical Population, Flows, and Loads

Historical population, flow and load data are analyzed herein to develop ADWF and AA load per-capita values, as well as flow and load peaking factors.

2.3.1 Historical Population

Estimation of current per-capita wastewater flows (i.e., the volume of flow per person contributing to the total flow to the WPCP) is important because it provides a benchmark for future flow projections. It can also be compared to typical per capita flows to identify any collection system issues that may exist (e.g., flow due to infiltration and inflow).

To avoid over (or under) sizing future WPCP facilities, accurate per-capita values are needed. For true per-capita estimation, only the population connected to the WPCP collection system should be counted. Because the City population and the connected population are not equivalent, the connected population was estimated as follows:

2020
$$Population_{total\ connected} = 110,364 - 17,204 = 93,160$$

The estimated 2020 connected population represents about 84 percent of the estimated 2020 City population. This percentage was applied to historical City population estimates to develop historical connected population estimates (Table 2.1).

Table 2.1 Historical Population Estimates

Year	Estimated City Population ⁽¹⁾	Estimated Connected Population
2000	60,516	51,073
2001	64,810	54,697
2002	66,481	56,107
2003	67,862	57,273
2004	70,322	59,349
2005	72 , 459	61,152
2006	77,348	65,279
2007	82 , 784	6 9, 866
2008	85,034	71,765
2009	85,739	72,360
2010	86,136	72,695
2011	86,707	73,177
2012	87 , 523	73,866
2013	88,127	74 , 376
2014	88 , 785	74,931
2015	89,615	75,631
2016	90,007	75,962
2017	91,166	76,940
2018	92,040	77,678
2019	110,126	92,942
2020	110,364	93,160
Notes:	·	

Notes:

(1) (State of California Department of Finance 2021).

2.3.1.1 Estimation of Full-Time Residents

The estimation of full-time residents is another key factor in the per-capita analysis for the City, due to the significant number of connected population that are college students (some of which are not full-time residents). Most of the students that live within the City's SOI are enrolled at the Chico campuses of California State University (CSU) (also known as CSU Chico or Chico State) or Butte College. The following enrollment data is available for these colleges:

- CSU Chico:
 - Total number of students.
 - Number of students that list Butte County as their residence.
- Butte College:
 - Total number of students.
 - Percentage of students that list the City of Chico as their residence.

The connected population when school is in session (which represents the maximum population during the calendar year) was estimated using the following assumptions:

- CSU Chico:
 - 100 percent of the students that listed Butte County as their residence remain in the service area during school breaks.
 - 100 percent of students that did not list Butte County as their residence leave the service area during school breaks.
- Butte College:
 - 100 percent of the students that listed the City of Chico as their residence remain in the service area during school breaks.
 - 100 percent of students that did not list the City of Chico as their residence leave the service area during school breaks.

In the case of Butte College, more enrolled students live in Chico than attend classes at the Chico campus (i.e., the connected population does not decrease when school is in-session). A slight decrease in flow may occur when these students are attending classes; however, most of their contribution to the collection system (from clothes washing, showers, dishwashers, etc.) is unaffected. A decrease in flow was not discernable from the data; therefore, the effect of Butte College breaks was presumed to be insignificant.

Accordingly, the connected population when school is on-break (which represents the minimum population during the calendar year) was estimated as follows:

 $Population_{On\ Break} = Population_{Total\ Connected} - Population_{CS\ U\ Chico\ non\ County}$

The resulting Historical College Student Total and Connected Population Estimates are summarized in Table 2.2.



 Table 2.2
 Historical College Student Total and Connected Population Estimates

Year		CSU Chico	Student Populatio	on ⁽¹⁾	Butte College Student Population			Estimated Connected Population	
	Total (Fall)	County	County %	non-County	Total (Fall) ⁽²⁾	City Residents ⁽³⁾	Chico Campus (Fall)	On-Break (Min) ⁽⁴⁾	In-Session ⁽⁵⁾
2000	15,912	4,418	27.8%	11,494	11,542	4,848	3,195	39,579	51,073
2001	16,704	4 , 573	27.4%	12,131	12,669	5,321	3,507	42 , 566	54,697
2002	16,246	4,534	27.9%	11,712	13,296	5,584	3,680	44,395	56,107
2003	15 , 516	4 , 371	28.2%	11,145	12,244	5,142	3,389	46,128	57,273
2004	15,734	4,343	27.6%	11,391	12,745	5,353	3,528	47,958	59,349
2005	15,919	4,161	26.1%	11,758	13,453	5,650	3,724	49,394	61,152
2006	16,250	4,016	24.7%	12,234	12,284	5,159	3,400	53,045	65,279
2007	17,034	3,933	23.1%	13,101	12,228	5,136	3,385	56,765	69,866
2008	17,132	3,811	22.2%	13,321	12,458	5,232	3,448	58,444	71,765
2009	16,934	3,729	22.0%	13,205	13,147	5,522	3,806	59,155	72,360
2010	15,989	3,419	21.4%	12,570	13,293	5,583	3,591	60,125	72,695
2011	15,920	3,381	21.2%	12,539	12,923	5,428	3,587	60,638	73,177
2012	16,470	3 , 326	20.2%	13,144	12,290	5,162	3,365	60,722	73,866
2013	16,356	3,202	19.6%	13,154	12,163	5,108	3,320	61,222	74,376
2014	17,287	3,226	18.7%	14,061	12,161	5,108	3,366	60,870	74,931
2015	17,220	3,080	17.9%	14,140	11,669	4,901	3,230	61,491	75,631
2016	17 , 557	3,081	17.5%	14,476	11,300	4,746	3,128	61,486	75,962
2017	17,875	3,001	16.8%	14,874	11,386	4,782	3,152	62,066	76,940
2018(6)	18,179	3,052	16.8%	15,127	11,580	4,863	3,205	62,551	77,678
2019(6)	18,488	3,104	16.8%	15,384	11,776	4,946	3,260	77,558	92,942
2020(6)	18,802	3,157	16.8%	15,646	11,977	5,030	3,315	77,514	93,160

 ^{(1) (}The California State University 2018).
 (2) (National Center for Education Statistics 2018).

^{(3) (}Butte College 2016).

⁽⁴⁾ Calculated using equation described in Section 2.3.1.1.

⁽⁵⁾ From Table 2.1.

⁽⁶⁾ Estimation based on student population growth assumption of 1.7 percent to match population growth values used elsewhere. Does not reflect numbers reported by the university.



2.3.2 Historical Flows

Flow is defined as the volumetric rate at which raw influent wastewater enters the WPCP from the collection system, usually expressed in terms of millions of gallons per day (mgd). The WPCP influent flow measurement occurs downstream of screening and grit removal and prior to the introduction of plant recycle streams, tracked as a combination of flow measurements that occur in parallel Parshall flumes downstream of the grit removal facilities.

Daily minimum, maximum, and average flow data were compiled from monthly operational reports from January 2012 through December 2020 (the latest 9 full calendar years of data available) and analyzed to develop the flow parameters for each year as defined below:

Average Dry Weather Flow (ADWF):

- The ADWF is the average of daily average flows for the three-month dry weather period (July through September) each year.
- ADWF per capita is the ADWF divided by the connected population, expressed in units of gallons per capita day (gpcd).

Average Annual Flow (AAF):

- The AAF is the average of average daily flows for the entire calendar year.
- The AAF Peaking Factor (AAFPF) is AAF divided by the ADWF.

• Maximum Month Flow (MMF):

- The MMF is the maximum 30-day running average of average daily flow data.
- The MMF Peaking Factor (MMFPF) for each year is MMF divided by the ADWF.

Peak Flow (PF):

- The PF for each year is the maximum instantaneous flow measured by supervisory control and data acquisition (SCADA).⁶
- The PF Peaking Factor (PFPF) for each year is PF divided by the ADWF.

Prior to developing these flow parameters, known erroneous data points and other statistical outliers (e.g., a PF on a dry summer day) were identified and removed (Appendix B).

2.3.2.1 Historical ADWF and ADWF per Capita

ADWF was calculated as described above, and an ADWF per capita range was calculated using the maximum and minimum connected population estimates from Table 2.2 (Figure 2.4).

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⁶ Maximum influent flow reported on the monthly operational data sheets represents the maximum instantaneous flow, whose interval is subject to the PLC/SCADA programming. Hourly data prior to 2016 is not available due to a SCADA upgrade. Previous planning efforts expressed wet weather flow criteria in terms of peak hour wet weather flow (PHWWF).

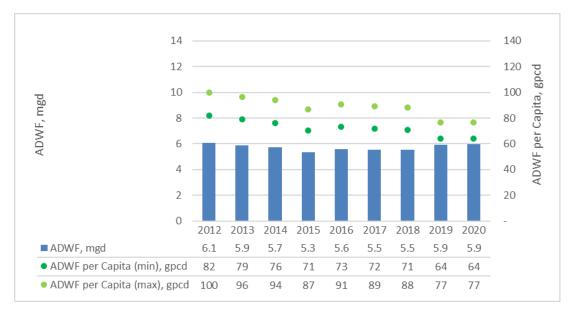


Figure 2.4 Historical ADWF and ADWF Per Capita Range

The upper bound of the ADWF per capita value represents the minimum year-round connected population estimate (assuming 100 percent of the non-local college students remain in the service area during school breaks, as described in Section 2.2). The lower bound ADWF per capita value represents the maximum year-round connected population estimate (assuming 100 percent of the non-local college students leave the service area during school breaks).

To better estimate the ADWF per capita value, flow data were compared with respect to the four major college breaks: spring break, summer break, Thanksgiving break, and winter break. Assuming students and non-students produce the same volume of wastewater when they are living in the service area, the ADWF per capita can be estimated algebraically:

$$\frac{n_{breaks}}{n_{total}} \cdot ADWF_{breaks} \cdot ADWF \ per \ capita + \frac{n_{in-session}}{n_{total}} \cdot (Population_{total}) \\ \cdot ADWF \ per \ capita = ADWF_{total}$$

Where n is the number of days (either during a break or in-session) for the ADWF period each year; for 2012:

$$\frac{50}{84} \cdot 5.82 \, mgd \cdot ADWF \, per \, capita + \frac{34}{84} \cdot (73,866) \cdot ADWF \, per \, capita = 6.05 \, mgd$$

$$ADWF \, per \, capita = 87 \, gpcd$$

This calculation was applied to each year, with results summarized in Figure 2.5.



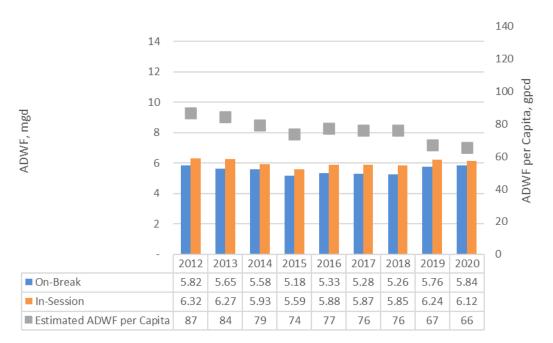


Figure 2.5 Historical ADWF vs. College Breaks and Estimated ADWF per Capita

From this ADWF per capita estimate, the population of students that leave during break can be more accurately estimated as follows:

 $(Population_{total} - Population_{students\ that\ leave}) \cdot ADWF\ per\ capita = ADWF_{breaks}$ From this, the connected populations summarized in Table 2.2 were updated (Table 2.3).

Table 2.3 Estimated Connected Population vs College Breaks

Year	Connected Population, On-Break (Minimum) ⁽¹⁾	Connected Population, On-Break (Estimated)	Connected Population, In-Session (Maximum) $^{\! ext{\tiny (1)}}$
2009	59,155	65,363	72 , 360
2010	60,125	67,682	72,695
2011	60,638	66,406	73,177
2012	60,722	67,265	73,866
2013	61,222	67,010	74,376
2014	60,870	70,571	74,931
2015	61,491	70,131	75,631
2016	61,486	68,881	75,962
2017	62,066	69,216	76,940
2018	62 , 551 ⁽²⁾	69,061	77,678
2019	77 , 558 ⁽²⁾	85,760	92,942
2020	77 , 514 ⁽²⁾	88,830	93,160

Notes:

⁽¹⁾ Copied from Table 2.2.

⁽²⁾ Estimation based on student population growth assumption of 1.7 percent to match population growth values used elsewhere. Does not reflect numbers reported by the university.

For the period prior to 2018, approximately 54 percent of the non-resident students (non-City Butte College and non-County CSU Chico) left the service area over breaks (on average).

2.3.2.2 Other Historical Flows and Peaking Factors

Historical flow parameters are important for various planning, design, and operational purposes, a few of which are listed below⁷:

- AA flows: Used for estimation of pumping and chemical costs; can be used as a benchmark for comparison to similar plants for staffing purposes.
- Maximum monthly (MM) flows: Used to identify the required number and/or size of unit processes with large hydraulic retention; prevents overly conservative design.
- Peaking factors: Used for hydraulic design and sizing of more critical unit processes.

For each flow parameter, a historical flow peaking factor was developed that represents the ratio of that flow to the ADWF.

The WPCP historical flow parameters and associated peaking factors for 2012-2020 are presented in Figure 2.6.

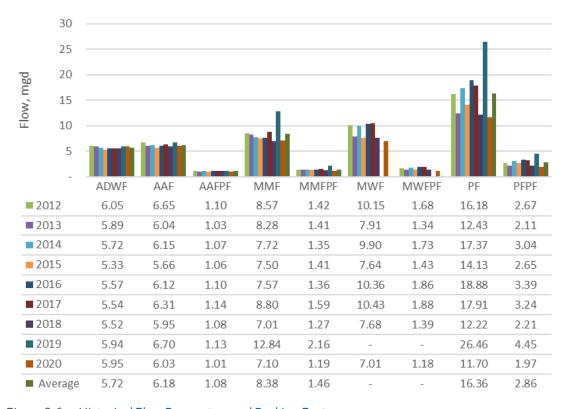


Figure 2.6 Historical Flow Parameters and Peaking Factors

⁷ (Tchobanoglous 2014)





The flow peaking factors are applied to the ADWF projections in the development of projections for the other flow parameters used for facility design (MMF and PF).

Because the historical PFs for this data set represent peak instantaneous flows, the PF peaking factors exceed the previously published peaking factor for the WPCP^{8,9} of 2.5. This past value reflects peak hour flow, which reflects a more realistic basis for capacity-related planning; the hydraulic design of the WPCP allows for some dampening of instantaneous flow impacts. Therefore, a flow peaking factor of 2.5 (matching historical practices) was chosen for this planning effort.

2.3.3 Historical Wastewater Loads

Wastewater loads are defined as the quantities of pollutants carried by the wastewater as it enters a treatment facility, usually expressed in terms of pounds per day (lb/day). Important loading criteria (related to facility design) include:

- Daily loads: Daily loads calculated using the measured average daily flow and the measured daily concentration for each pollutant.
- Annual average loads: Average daily loads treated at a facility for the calendar year, based on measured loading values.

Loading values were calculated for the WPCP based on historical data discussed herein. No historical loading values were available for Paradise so it was assumed that wastewater from Paradise would have the same characteristics as the flow from Chico. Once calculated, statistical outliers were removed from each pollutant's dataset to account for possibly erroneous concentration measurements¹⁰.

2.3.3.1 Sierra Nevada Brewery Loads

The largest significant industrial user (SIU) in the WPCP's service area is the Sierra Nevada Brewery (SNB). Untreated brewery wastewater is typically high-strength, which can be a significant burden for wastewater treatment. The preparation of 2005 WPCP Facility Plan¹¹ was preceded by a significant uptick in the flow and loads discharged by SNB to the City's collection system (and ultimately treated by the WPCP). This directly impacted the load projections made during that facility planning effort.

Since the 2005 facility planning effort, SNB has installed pre-treatment systems for its brewery wastewater prior to its discharge to the City's collection system, which has significantly reduced SNB's load on the WPCP as indicated in Figure 2.7.

¹¹ (Carollo Engineers, Inc. 2005)



^{8 (}Carollo Engineers, Inc. 2005)

⁹ (Carollo Engineers, Inc. 2013)

¹⁰ Outliers were removed from calculated loads rather than from measured concentrations. This is because a low concentration may appear to be a statistical outlier without flow context (i.e., rainfall can dilute a pollutant's concentration), but when taken in context with the associated high flow, the load is not a statistical outlier.

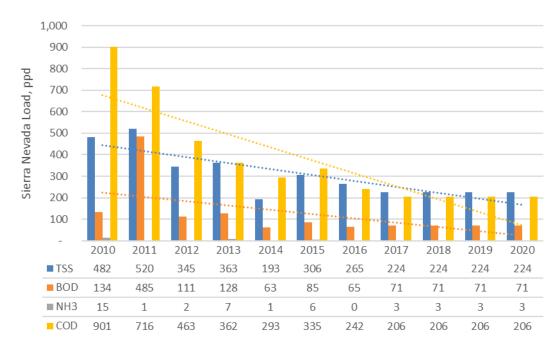


Figure 2.7 Historical Sierra Nevada Brewery Loads

Given the significant upgrades of SNB's pretreatment systems and the measured downward trend of their loading on the WPCP, sampling frequency by SNB was reasonably decreased (the brewery's effluent wastewater [load to the WPCP] has improved in quality over the time period analyzed).

To develop accurate per capita load values for the WPCP, the load associated with the brewery is differentiated from the rest of the total load measured at the plant (non-Sierra Nevada loads) in this evaluation. Since SNB data was not available after 2017, it was assumed for this analysis that 2018, 2019, and 2020 were identical to 2017.

2.3.3.2 Non-Sierra Nevada Loads and per Capita Values

Using the same methodology to capture college break and in-session population differences with a single per-capita value used for ADWF, AA load per capita values were calculated for TSS, BOD, and ammonia (NH₃) (Figure 2.8, Figure 2.9, and Figure 2.10).



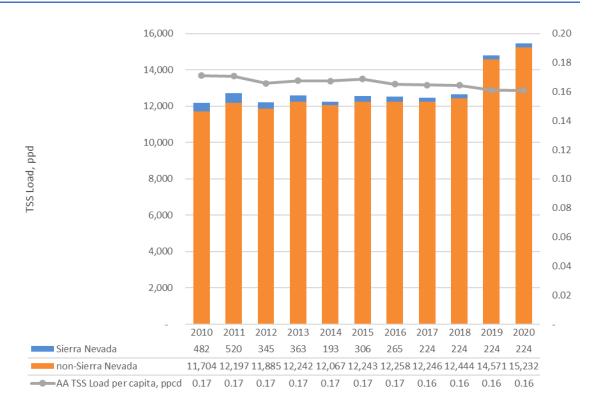


Figure 2.8 Historical TSS Loads

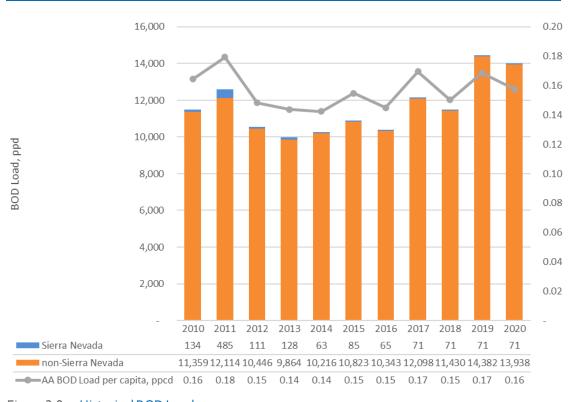


Figure 2.9 Historical BOD Loads

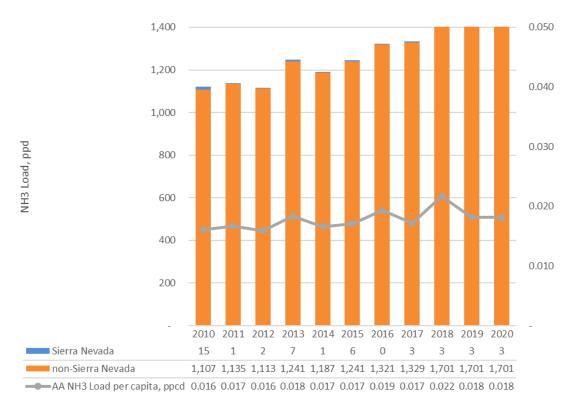


Figure 2.10 Historical NH₃ Loads

The per-capita ammonia load values reported in Figure 2.10 reflect the non-Sierra Nevada ammonia loading; Sierra Nevada's ammonia loading is shown only for comparison purposes. The average annual and per capita loads for NH₃ have trended upwards in recent years. However, the WPCP NH₃ data collected prior to 2018 was based on grab samples and all data since are based on 24-hour composite samples (depicting a more realistic daily concentration for the influent flow). For this reason, NH₃ data prior to 2018 was not used for future projections and is only presented herein for reference. Additionally, WPCP NH₃ data was not available for 2019 and 2020 so the 2018 loads were used in their place.

Historical maximum month values were calculated for non-Sierra Nevada loads (Figure 2.11) and peaking factors were calculated by dividing these loads by the average annual loads (Figure 2.12).



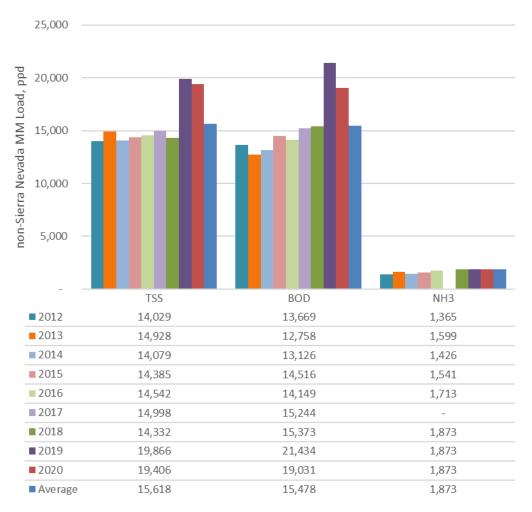


Figure 2.11 Historical Max Month Loads

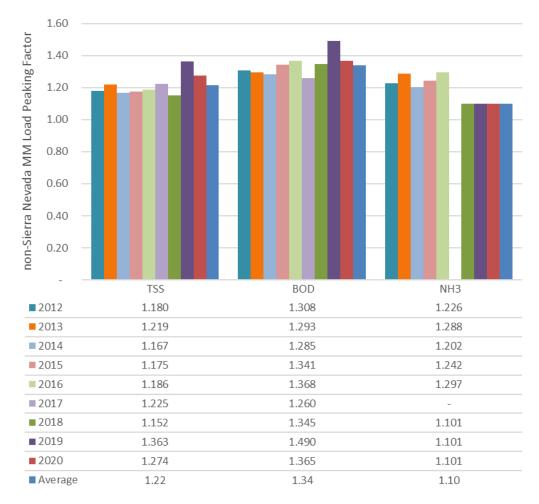


Figure 2.12 Historical Max Month Load Peaking Factors

2.4 Projected Population, Flows, and Loads

Population projections were created using historical trends and input from City staff. ADWF and AA load were projected by applying the developed per-capita values to the projected population. Other flow and load parameters were projected by applying the peaking factors to the projected ADWF or AA load.

2.4.1 Projected Population

Much of the City's population growth before 2009 was due to annexations related to the Nitrate Action Plan and other efforts undertaken by the City to consolidate its incorporated limits. As depicted in Figure 2.13, the Great Recession of 2008/2009 slowed this growth significantly with no notable increase until 2019. In 2019, the City saw a substantial increase in population growth following the Camp Fire, as Chico received an influx of displaced residents from the Town of Paradise.

There are currently several development efforts underway (and planned) within the City's SOI that will result in continued growth in the near-term.



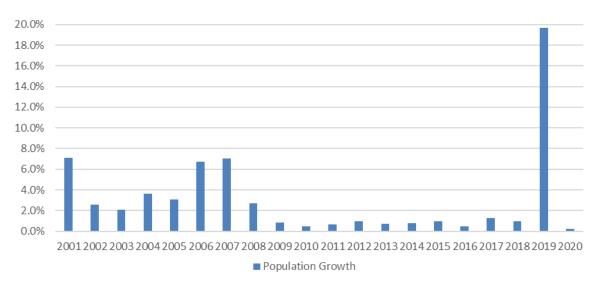


Figure 2.13 Historical Population Growth

Other historical planning efforts have assumed population growth rates that are higher than recently observed (Table 2.4).

Table 2.4 Summary of Annual Growth Rate Projections

Source	Year(s)	City	County
Facilities Plan	1996	2.9%	-
General Plan Update	1998	2.9%	2.5%
Facilities Plan Update	2005	2.5%	-
BCAG	2014	1.2-1.6%	1.2-1.6%
CADOF	2015	-	0.53%
General Plan Update	2017	1.7%	1.6%
Observed Historical	2009-2018	0.83%	0.44%
WPCP Strategic Planning Report		1.2 - 1.4%	-

The original WPCP Strategic Planning Report 12 assumed a growth rate of 1.2 percent, with an alternate growth rate assumption of 1.4 percent presented for comparison purposes, as requested by the City (Table 2.5).

For the updated analysis presented herein, a growth rate of 1.7 percent is used as directed by City staff. This growth rate matches the growth rate used for the 2017 General Plan Update and is intended to reflect expected and ongoing development activity within the City's SOI.

^{12 (}Carollo Engineers, 2021)

Table 2.5 Connected Population Growth Projections

	As Pres	As Presented in WPCP Strategic Planning Report (1)			Current ⁽²⁾	
Year	1.2% Annual Growth		1.4% Annu	ual Growth	1.7% Annu	ual Growth
	On-Break ⁽³⁾	In-Session	On-Break ⁽³⁾	In-Session	On-Break ⁽³⁾	In-Session
2018	70 , 826	77 , 938	70,812	77,938	-	-
2019	71,676	78,873	71,803	79,029	-	-
2020	72 , 536	79,820	72,808	80,136	88,830	93 , 160 ⁽⁴⁾
2021	73,494	80 , 778	73,930	81,257	88,235	95,474
2022	74,376	81,747	74,965	82,395	91,060	98,422
2023	75 , 357	82,728	76 , 119	83,549	93,936	101,423
2024	76,261	83,721	77 , 185	84,718	96,874	104,488
2025	77,266	84,725	78 , 371	85,904	99,874	107,618
2026	78,193	85,742	79 , 468	87,107	102,939	110,814
2027	79,222	86,771	80,687	88,326	107,496	115,505
2028	80,172	87,812	81,817	89,563	110,764	118,909
2029	81,226	88,866	83,071	90,817	114,105	122,389
2030	82,201	89,932	84,234	92,088	117,519	125,943
2031	83,280	91,011	85,523	93,378	120,426	128,993
2032	84,279	92,104	86 , 720	94,685	123,409	132,122
2033	85,385	93,209	88,046	96,010	126,460	135,322
2034	86,409	94,327	89,279	97,355	129,582	138,594
2035	87,541	95,459	90,642	98,718	132,776	141,941
2036	88,592	96,605	91,911	100,100	136,042	145,363
2037	89,751	97,764	93,312	101,501	139,384	148,863
2038	90,828	98,937	94,618	102,922	142,802	152,443



REGIONALIZATION PLANNING REPORT FOR THE PARADISE SEWER PROJECT | CITY OF CHICO

	As Presented in WPCP Strategic Planning Report (1)			Curre	nt ⁽²⁾	
Year	1.2% Annual Growth		1.4% Annu	al Growth	1.7% Annual Growth	
	On-Break ⁽³⁾	In-Session	On-Break ⁽³⁾	In-Session	On-Break ⁽³⁾	In-Session
2039	92,015	100,124	96,059	104,363	146,299	156,104
2040	93,125	101,326	97,423	105,824	149,877	159,848
2041	-	-	-	-	152,513	162,654
2042	-	-	-	-	155,199	165,512
2043	-	-	-	-	157,935	168,424
2044	-	-	-	-	160,723	171,390
2045	-	-	-	-	163,563	174,411
2046	-	-	-	-	166,457	177,489
2047	-	-	-	-	169,406	180,625
2048	-	-	-	-	172,410	183,821
2049	-	-	-	-	175,472	187,077
2050	-	-	-	-	178,593	190,395
2051	-	-	-	-	181,774	193,776
2052	-	-	-	-	185,016	197,222
2053	-	-	-	-	188,320	200,734
2054	-	-	-	-	191,689	204,314
2055	-	-	-	-	195,123	207,963
2056	-	-	-	-	198,625	211,683
2057	-	-	-	-	202,195	215,475

Notes:



⁽¹⁾ Does not include Paradise residents.

⁽²⁾ Includes connected population from the Town of Paradise, as projected in Technical Memorandum #2 for the Paradise Sewer Project (Design Criteria for Local Wastewater Treatment Plant, HDR, November 2020).

⁽³⁾ Projected from Table 2.3 assuming college enrollment grows at the same rate as the non-student connected population.

⁽⁴⁾ Carried down from Table 2.1.

The remainder of this report, beginning with Table 2.6, assumes a singular growth rate assumption of 1.7 percent.

With use of the updated projection of 1.7 percent annual growth rate and the updated baseline population values for 2020 presented herein (which represent a 20 percent increase from the 2018 population estimate), the resulting connected population projection in the year 2057 is 215,475 residents. This represents a population increase of 131 percent from the 2020 baseline population, as anticipated growth within the Chico and Paradise service areas combined.

Annexations of unincorporated areas of Butte County (unincorporated islands within the City limits and developments outside of City limits) are included in this projection because these annexations have been captured in the historical data and because the rate of annexations is not expected to significantly change.

The updated population projections also include connected Paradise residents starting in 2027 (estimated connection to the WPCP is December 2026), and total 6,163 people by 2057 (Table 2.6). For the remainder of the discussion in this report, only the combined connected population is considered.

Table 2.6 Connected Chico and Paradise Residents

Year	Chico	Paradise ⁽¹⁾	Total Connected ^(2,3)
2020	93,160	1,200	93,160
2021	95,474	1,230	95,474
2022	98,422	1,260	98,422
2023	101,423	1,292	101,423
2024	104,488	1,324	104,488
2025	107,618	1,357	107,618
2026	110,814	1,391	110,814
2027	114,079	1,426	115,505
2028	117,412	1,497	118,909
2029	120,817	1,572	122,389
2030	124,293	1,651	125,943
2031	127,260	1,733	128,993
2032	130,302	1,820	132,122
2033	133,411	1,911	135,322
2034	136,588	2,006	138,594
2035	139,834	2,107	141,941
2036	143,151	2,212	145,363
2037	146,541	2,323	148,863
2038	150,004	2,439	152,443
2039	153,543	2,561	156,104
2040	157,159	2,689	159,848
2041	159,831	2,823	162,654
2042	162,548	2,964	165,512
2043	165,311	3,113	168,424



Year	Chico	Paradise ⁽¹⁾	Total Connected(2,3)
2044	168,121	3,268	171,390
2045	170,979	3,432	174,411
2046	173,886	3,603	177,489
2047	176,842	3,783	180,625
2048	179,848	3,973	183,821
2049	182,906	4,171	187,077
2050	186,015	4, 380	190,395
2051	189,177	4,599	193,776
2052	192,393	4,829	197,222
2053	195,664	5,070	200,734
2054	198,990	5,324	204,314
2055	202,373	5,590	207,963
2056	205,814	5,869	211,683
2057	209,312	6,163	215,475

Notes:

- (1) Connected Paradise residents were calculated using Paradise wastewater flows and per capita usage provided by HDR.
- (2) From Table 2.5.
- (3) Connected residents total does not include Paradise residents until the connection is online in 2027.

The total connected population projection of 215,475 represents a 131 percent increase from the 2020 connected population estimate.

2.4.1.1 Population Growth due to Connection of Unconnected City Residents

The number of currently unconnected City residents is a more significant portion of the overall population than the county annexations, and the historical rate of adding unconnected City residents is expected to be higher in the future as the implementation of the Nitrate Compliance Plan continues.

For this planning effort, it was assumed that 100 percent of the estimated 17,204 unconnected City residents will be connected by 2040; the number of residents connected annually is assumed to increase at the same rate as that of the currently connected population.

2.4.2 Projected Flows

In the dry weather months from which the ADWF per-capital value was derived, approximately 60 percent of the days are on-break days and 40 percent are in-session days. ADWF was projected by applying the average ADWF per-capita value (76.3 gpcd) proportionally to the break and in-session population projections as follows:

$$ADWF = 60\% \cdot ADWF \ per \ capita \cdot Population_{on-break} + 40\% \cdot ADWF \ per \ capita \cdot Population_{in-session}$$

Other flow parameters were projected by applying the flow peaking factors to the projected ADWF (Figure 2.14). As with Table 2.6, the ADWF flow projections for the total connected population can also be split between the Chico service area and the Paradise residents (Figure 2.15).



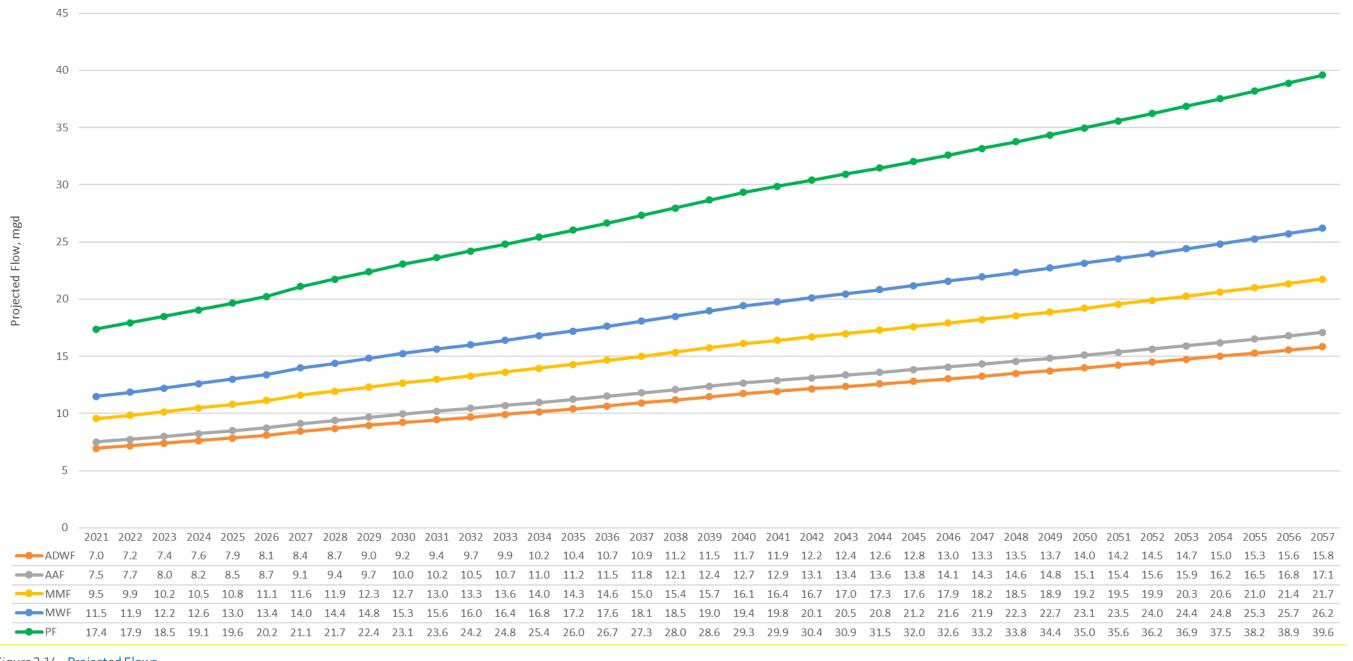


Figure 2.14 Projected Flows



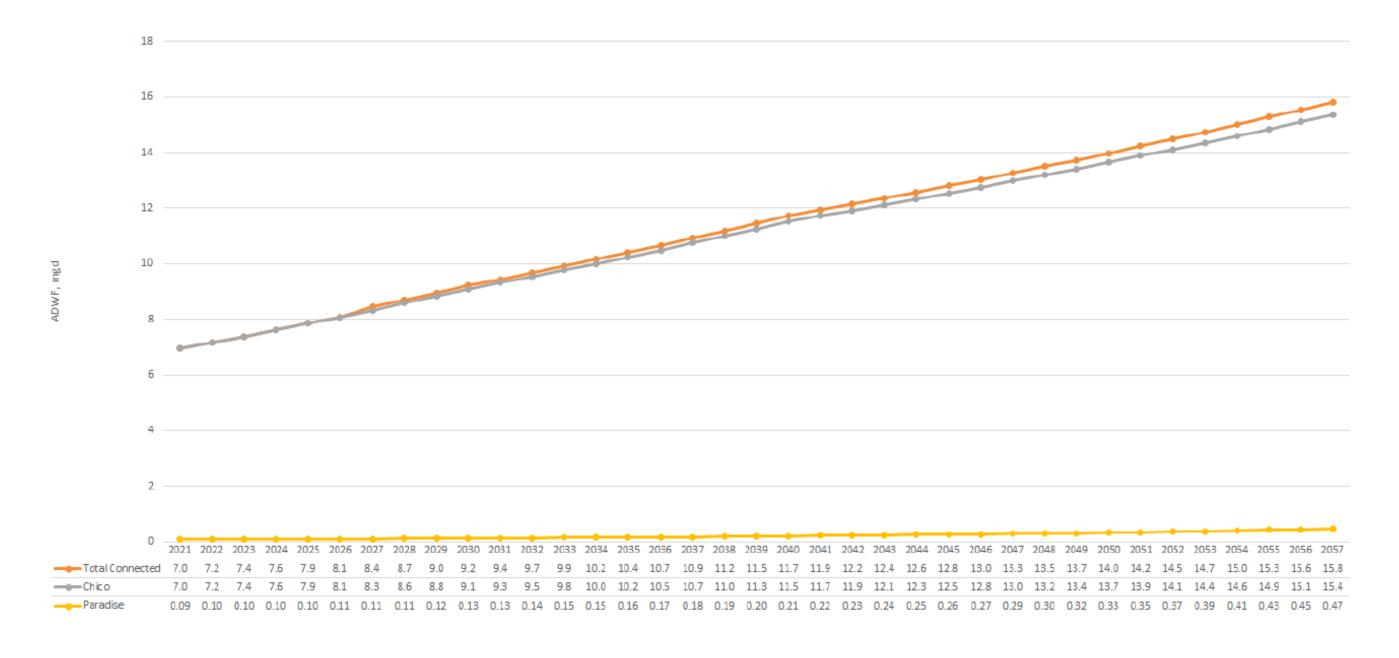


Figure 2.15 Projected ADWF



2.4.3 Projected Loads

Average annual loads were projected by applying the average annual per-capita values to the projected population. Because of the small and decreasing portion of Sierra Nevada's load to the overall influent load, the average loads for the time period analyzed were held constant for projected loads (Figure 2.16).

2.5 Summary of Projections

Table 2.7 contains a summary of historical and projected population, flow, and load values. Findings related to this data include the following:

- The population connected to the WPCP collection system is projected to increase 131 percent by 2057 (from 93,160 to 215,475).
- The ADWF for the WPCP is projected to increase 126 percent by 2057 (from 7.0 mgd to 15.8 mgd).
- Projected flows and loads are higher than previous projections:
 - Projected AA and MM flows are 14 percent and 12 percent higher than the previous facility plan's projections, respectively.
 - Projected AA and MM TSS loads are 17 percent and 31 percent higher than the previous facility plan's projections, respectively.
 - Projected AA and MM BOD loads are 30 percent and 45 percent higher than the previous facility plan's projections, respectively.

These flow and load projections provide context for the capacity-driven facility needs discussion in Chapter 4 and the regulatory-driven facility needs discussion in Chapter 5.



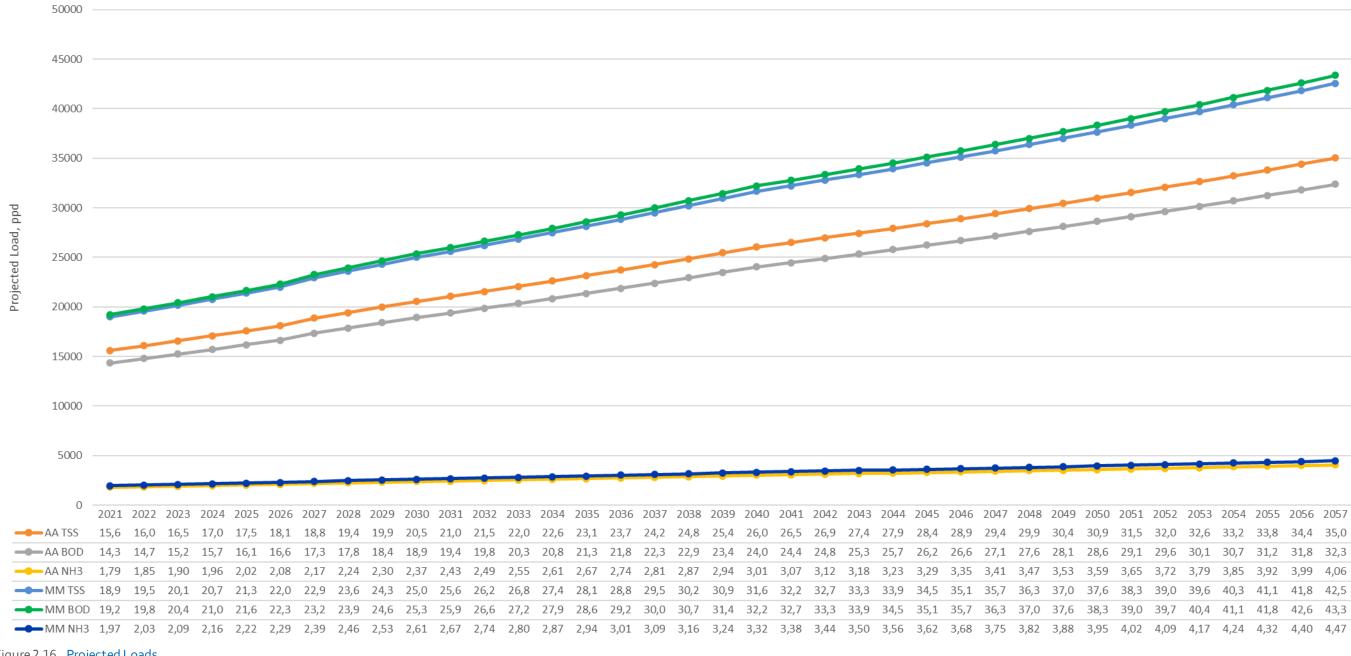


Figure 2.16 Projected Loads



Table 2.7 Summary of Historical and Projected Population, Flows, and Loads

	Previously Projected			Updated Projection				Historical Projections ⁴			
Planning Parameter	2018 Baseline ¹	2018 Peaking	2040 Projected	2040 Projection	2021 Baseline ²	2021 Peaking	2040 & 2057	2040 Projection	2057 Projection	2005 Facility Plan	2013 SSMPL
		Factor	PF (2018 BL)	(2018 BL)		Factor	Projected PF (2021 BL)	(2021BL)	(2021BL)	Projection	Projection
Connected Population3	'			'	'	'					
Annual Maximum	77,938	-	-	116,986	93,160	-	-	159,848	215,475	-	-
Annual Minimum	70,842	-	-	108,798	88,830			149,877	202,195	-	-
Average Dry Weather (AI	DW)										
Flow, mgd	5.91	-	-	9.39	5.72			11.74	15.83	-	13.91
Diurnal Peak Flow, mgd	8.22	1.39	1.39	13.05	7.95	1.39	1.39	16.30	21.98	20.30	-
AWDF per capita, gpcd	84	-	-	84	76			76	76	-	-
Annual Average (AA)											
Flow, mgd	6.35	1.09	1.09	10.23	6.18	1.08	1.08	12.68	17.10	15.00	-
TSS, ppd	12,443	-	-	19,379	13,062			26,064	35,028	30,000	
TSS per capita, ppcd	0.17	-	-	0.17	0.17			0.17	0.17	-	
BOD, ppd	11,051	-	-	17,861	11 ,5 86			24,050	32,379	25,000	
BOD per capita, ppcd	0.16	-	-	0.16	0.15			0.15	0.15	-	
NH3, ppd	1,214	-	-	1,972	1,705			3,019	4,069	-	
NH3 per capita, ppcd	0.02	-	-	0.02	0.02			0.02	0.02	-	
Maximum Month (MM)											
Flow, mgd	8.52	1.47	1.47	13.76	7.86	1.37	1.37	16.12	21.74	19.50	
TSS, ppd	14,672	1.21	1.21	23,499	15, 618	1.22	1.22	31,687	42,585	32,500	
BOD, ppd	14,224	1.30	1.30	23,294	15,478	1.34	1.34	32,217	43 , 376	30,000	
NH3, ppd	1,512	1.27	1.27	2,501	1,873	1.10	1.10	3,323	4,479	-	
Peak											
Flow, mgd	15.86	2.74	2.50	23.48	16.36	2.86	2.50	29.34	39.58	37.50	35.30

⁽¹⁾ For the connected population, the baseline represents the estimated connected population at the beginning of 2018; for ADW, the baseline represents the historical average of the years 2010-2017.

⁽²⁾ For the connected population, the baseline represents the estimated connected population at the beginning of 2021; for all other parameters, the baseline represents the historical average of the years 2012-2020.

(3) The connected population is presented as a range for informational purposes only to reflect the biannual population swings due to college students; the flow and load projections use a blend of both population totals presented as described in this Chapter.

⁽⁴⁾ Historical projections were based on complete buildout of the City's Planning Area. The other projections in this table only extend to the end of the stated planning period (2040 or 2057).



Chapter 3

PLANT CAPACITY EVALUATION

This chapter evaluates the capacity of the City's WPCP to provide adequate treatment for the projected flows and loads within the planning period ending in 2057 (Chapter 2) in a tightening regulatory environment (Chapter 5).

Within this updated plant capacity evaluation there are several new capacity-driven upgrades identified that were not included in the recent WPCP Strategic Planning Report¹. The capacity-driven upgrades that had not been previously discussed are primarily the result of the three following circumstances:

- An increased population assumption compared to that used in the WPCP Strategic Planning Report².
 - The updated 2021 baseline population is approximately 20 percent higher than the previous 2018 baseline population.
- An increased growth rate assumption due to current development planning activity (1.7 percent compared to 1.2 percent used in the WPCP Strategic Planning Report³).
- An increase in planning period length (from ending in 2040 to ending in 2057) resulting a 35 percent increase in anticipated flows and loads since the previous planning effort.

3.1 Basis of Evaluation

Two parameters that were used to evaluate the WPCP's capacity are defined below:

- Peak hydraulic capacity: The maximum flow that can be physically passed through the treatment plant without over-topping structures or submerging effluent weirs. Evaluated with Carollo's Hydraulix® modeling software.
- Treatment process capacity: The maximum flow for the WPCP at which treatment objectives are accomplished for each process unit. Evaluated with BioWinTM wastewater process modeling software.

3.1.1 Flow & Load Basis

Annual average (AA) and maximum month (MM) flow and load projections form the basis for treatment process capacity evaluations. Peak flow projections provide the basis for peak hydraulic capacity evaluation. The flow and load projections for these analyses were developed in Chapter 2 and are summarized in Table 3.1.



¹ (Carollo Engineers, 2021)

² (Carollo Engineers, 2021)

Table 3.1 Projected WPCP Flows & Loads

Condition	Projected Flow ⁽¹⁾ , mgd	Projected Load ⁽¹⁾ , ppd (TSS / BOD / NH₃)	
Peak	39.6	-	
MM	21.7	42,600 / 43,400 / 4,500	
AA	17.1	35,100/32,400/4,100	
Average Dry Weather (ADW)	15.8	-	
Notes:			

(1) Projection is based on the planning period which extends through 2057.

3.1.2 Unit Process Availability Criteria

Both capacity parameters (peak hydraulic capacity and treatment process capacity) were evaluated for each unit process based on a unit process availability criterion defined below:

- Firm capacity/availability: All units are in service (available) except the largest unit.
- Total capacity/availability: All units are in service (available).

These unit process criteria are used to evaluate individual unit process capacities as described herein. For all capacity ratings in this chapter, it is assumed that the flow distribution to each process is optimized and that individual units are receiving equal amounts of flow.

3.2 Background

3.2.1 Previous WPCP Facility Planning

The City's 2005 WPCP Facility Plan 4 described two projects to expand the firm AA treatment process capacity of the plant to 12-and 15- mgd, respectively. Each project was developed to provide 2.5 times the AA flows in peak hydraulic capacity.

The 12 mgd upgrade project was constructed in 2007 and was comprised of hydraulic and process-related capacity improvements to several unit processes, however, the 15 mgd expansion project has not been implemented. As described in Chapter 2, AA flow is projected to surpass the WPCP's current design capacity of 12 mgd within the planning period.

3.2.2 WPCP Description

3.2.2.1 Split Flow Configuration

Influent wastewater flows through the Headworks and the primary treatment process at the WPCP by gravity. After primary treatment, primary effluent was historically split between two parallel trains (Plant 1 and Plant 2) that each consist of secondary treatment and disinfection processes.

Plants 1 and 2 were originally designed to receive approximately 30 percent and 70 percent of the total flow, respectively. However, as noted elsewhere in this report, the City is unable to consistently rely on aging Plant 1 facilities and is treating all flows with Plant 2 only. Plant 1 facilities are not discussed further in this report.

A summary of historical WPCP flow splits and capacity ratings is presented in Table 3.2.



^{4 (}Carollo Engineers, Inc. 2005)

Table 3.2 Historical WPCP Capacity Ratings and Flow Split

Project (Year)	Shared - Primary, mgd	Plant 1 - Secondary & Disinfection, mgd (% of Total)	Plant 2 - Secondary & Disinfection, mgd (% of Total)	Total Design Capacity (AA), mgd	Total Peak Flow Capacity, mgd
12 mgd Expansion Project (2007)	12	3.6 (30%) ⁽¹⁾	8.4 (70%)	12	30
1997 Expansion Project (1997)	9	3.6 (40%)(2)	5.4 (60%)	9	22.5
1990 Expansion Project	6	6 (100%)	-	6	15

Notes:

The locations of the major plant hydraulic components described in this chapter are depicted in the facility layouts included as Figures 3.1 and 3.2. The WPCP's existing hydraulic profile is Figure 3.3, and Figures 3.4 and 3.5 are the WPCP's existing liquids and solids flow schematics, respectively.

⁽¹⁾ Plant 1 is currently not in use other than Aeration Tank #2, which is being used for centrate storage/return. Efforts would be needed to bring Plant 1 capacity back online.

⁽²⁾ Plant 1 was de-rated to 3.6 mgd in 1997 due to new nitrification requirements.





Figure 3.1 WPCP Site Map with Facility Pond Locations



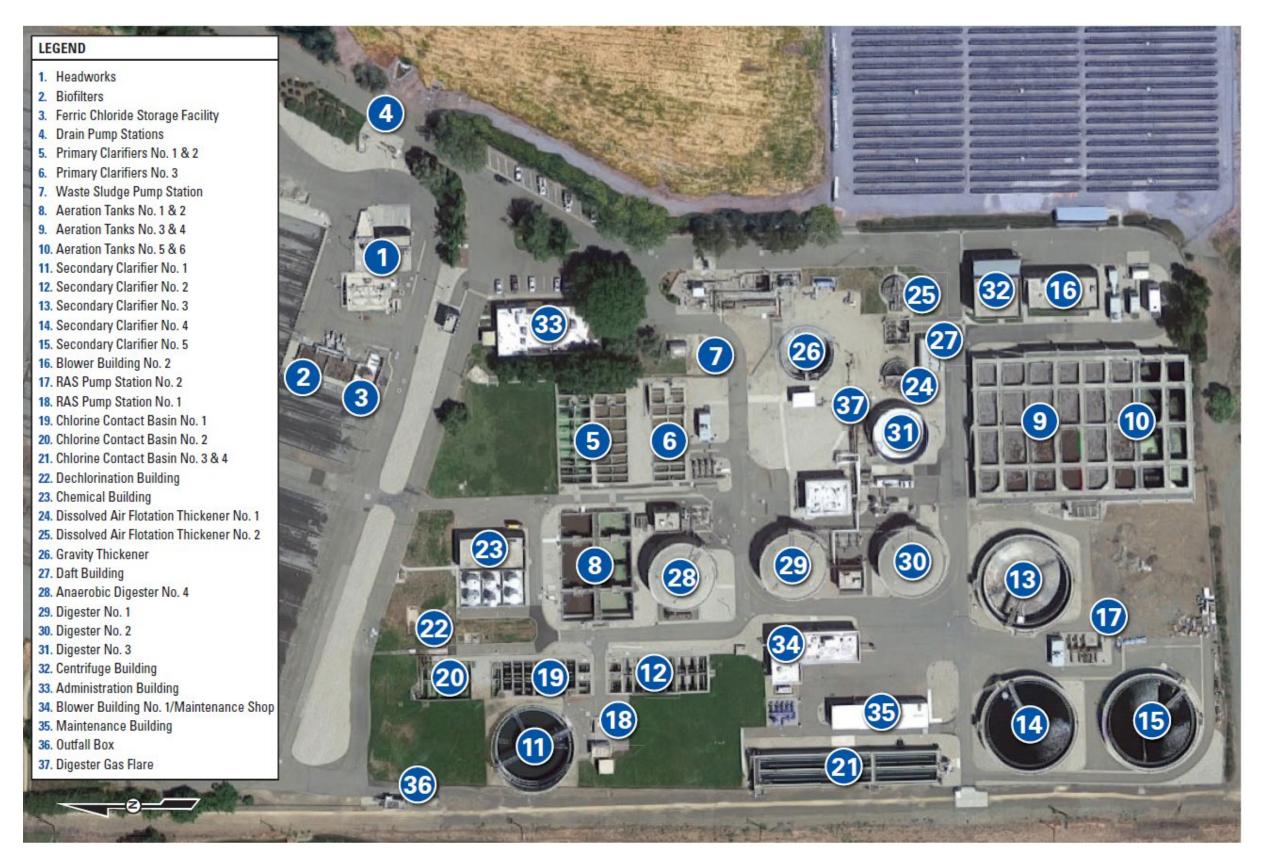


Figure 3.2 Existing WPCP Treatment Works and Facility Buildings



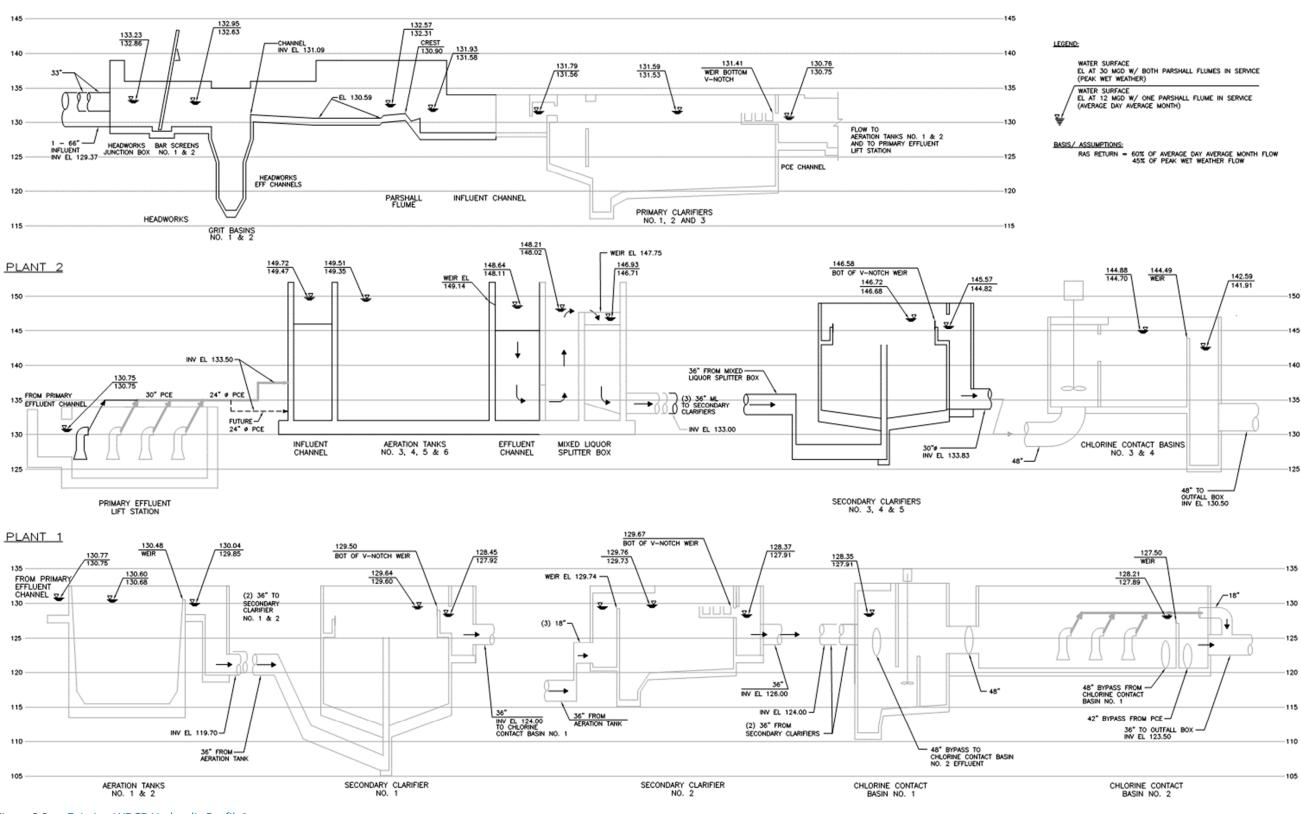


Figure 3.3 Existing WPCP Hydraulic Profile⁵

⁵ Water surface elevations are based on AA design flows of 12 mgd and design peak flows of 30 mgd.



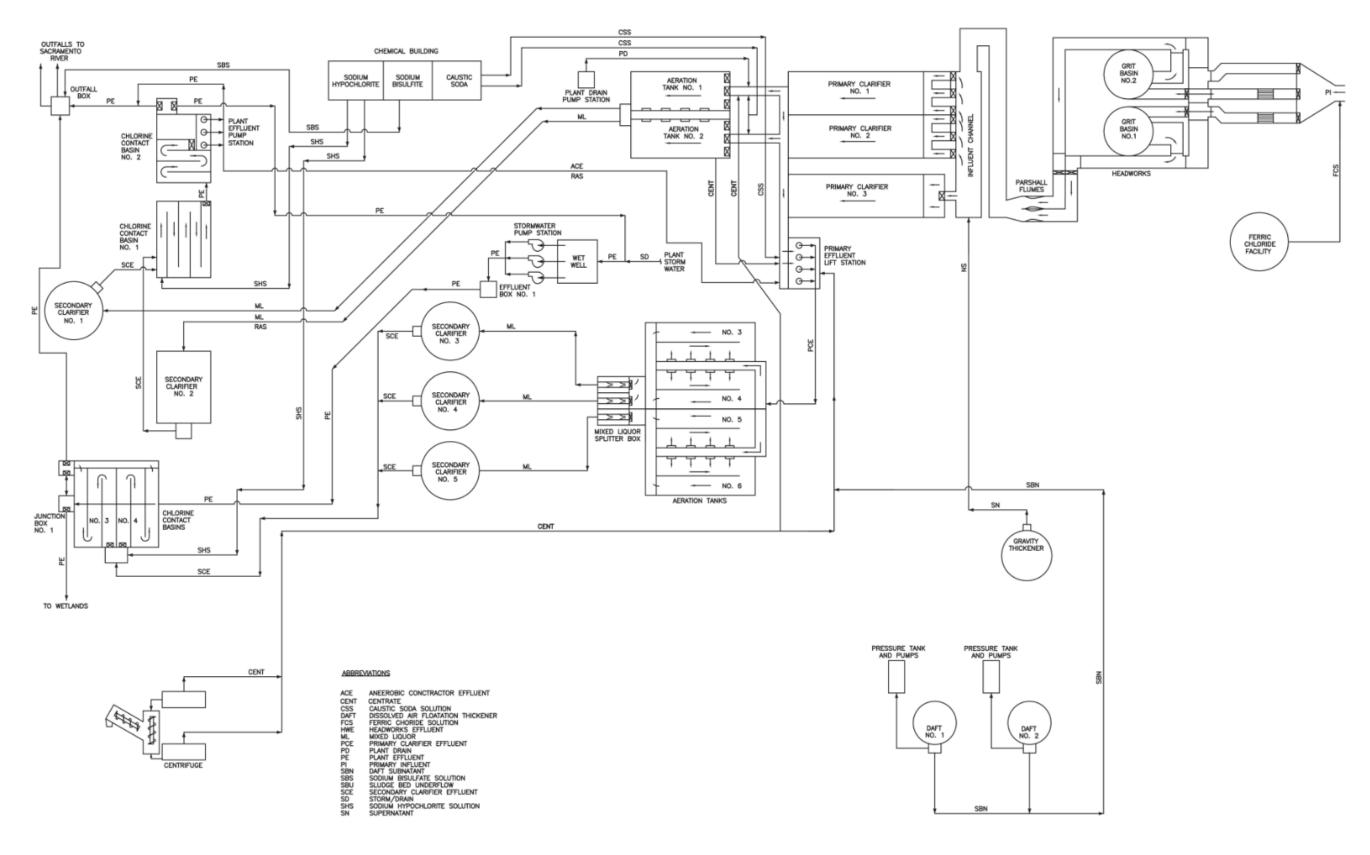


Figure 3.4 Existing Liquids Flow Schematic for WPCP



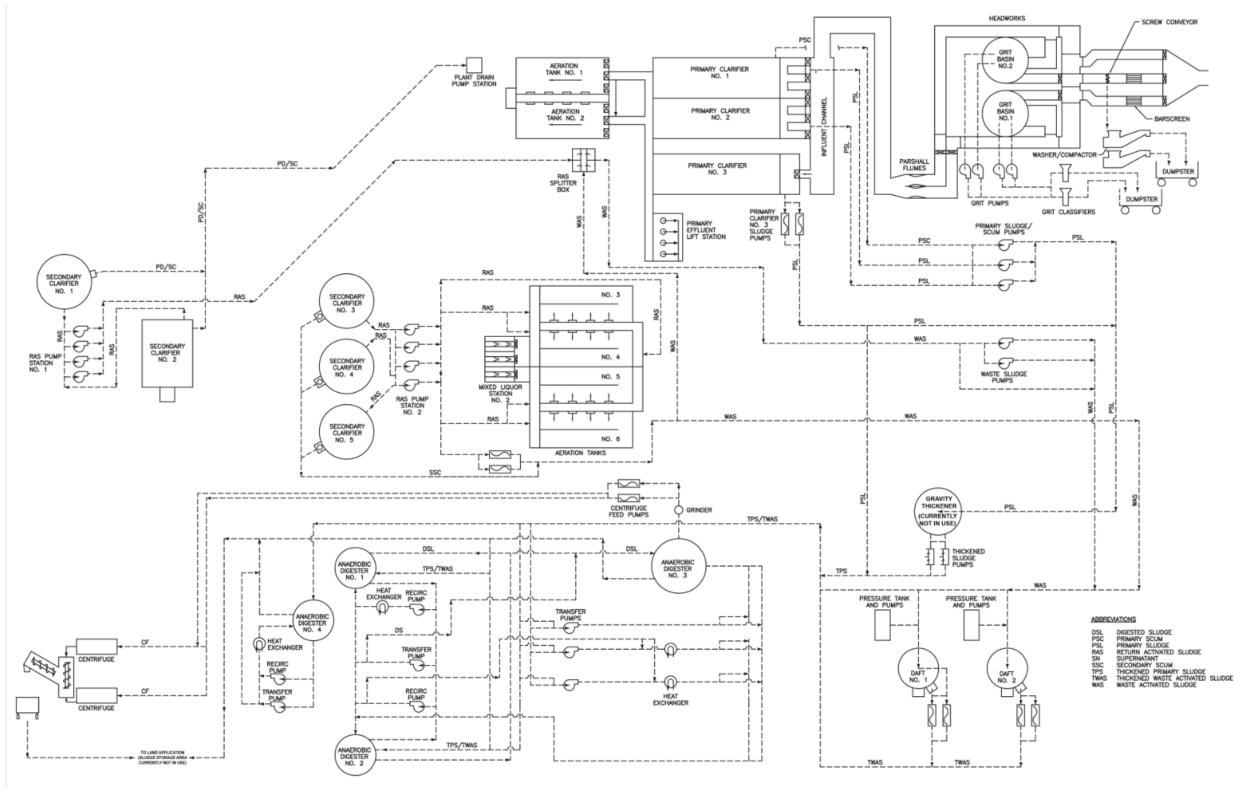


Figure 3.5 Existing Solids Flow Schematic for WPCP-This Page Intentionally Left Blank



3.3 Peak Hydraulic Capacity Evaluation

A detailed hydraulic model was prepared to develop the hydraulic capacity for individual unit processes, which was then evaluated against the projected peak flow of 39.6 mgd using the following unit process criteria:

- Pumping processes are evaluated based on their capacity for handling the peak flow condition with the largest unit out of service (firm capacity).
- *Hydraulic structures* are evaluated based on their capacity for handling the peak flow condition without over-topping the walls or submerging the effluent weirs.

The hydraulic capacity was evaluated assuming that only the Plant 2 secondary and disinfection facilities will be in operation during projected peak flows (per current operation).

3.3.1 Headworks

Untreated wastewater from the City's collection system enters the WPCP via 66-inch and 33-inch sewer pipes that connect to a junction box where flow is combined before flowing into the Headworks facility.

Upon entering the Headworks, the water flows through two of three bar screen channels and two mechanically induced vortex grit chambers. De-gritted influent flow is conveyed to the Parshall flume located to the southwest of the Headworks through two 4-foot-wide channels.

The Headworks facility was designed for 15 mgd buildout condition (which had an associated peak flow of 37.5 mgd when the facility was constructed); with two mechanical bar screens designed for a peak flow of 19 mgd each and two grit chambers designed for a peak flow of 20 mgd each.

To meet the projected peak flows, a third mechanical barscreen will be needed (replacing the manual bar rack that is currently installed in the third screen channel) by 2054.

3.3.2 Primary Treatment

From the Parshall flume, water flows through a 5-foot-wide rectangular concrete box channel that reduces to a 4-foot-wide rectangular channel before Primary Clarifier No. 1. The channel then reduces to a 3-foot-wide rectangular channel before Primary Clarifier No. 2, with channel width remaining at 3-feet for the rest of the influent channel.

Transition concrete channels split the flow from the influent channel to the three primary clarifiers. The effluent from the primary clarifiers is routed to the Primary Effluent Lift Station via a 4-foot-wide concrete channel. From this location, the flow is pumped to the Plant 2 secondary treatment train.

3.3.3 Primary Effluent Pumping

The Primary Effluent Lift Station contains four vertical turbine pumps, with three pumps rated at 6,600 gallons per minute (gpm) at 30 feet of head and the fourth pump rated at 6,800 gpm at 50 feet of head. This station has a current total capacity of 34.5 mgd and a firm capacity of 28.5 mgd for the pumps. The force main between the Primary Effluent Lift Station and the aeration tanks has a capacity of 24.0 mgd. The capacity of this station can be extended with the installation of a parallel force main between the Primary Effluent Lift Station and the aeration

tanks and with modifications to the existing Primary Effluent Lift Station to allow the installation of another pump.

With a firm capacity of 19,800 gpm (28.5 mgd) for the pumps and 24.0 mgd for the force main, the Primary Effluent Lift station has sufficient hydraulic capacity for the projected AAF flow of 17.1 mgd, but not enough capacity for the projected peak hour wet weather flow of 39.6 mgd.

To meet peak flow projections summarized herein, the parallel force main will be needed by 2038 and an additional pump will be needed at the Primary Effluent Pump Station by 2054.

3.3.4 Secondary Treatment and Disinfection

The Primary Effluent Lift Station pumps primary effluent to the influent channel of Aeration Tank Nos. 3, 4, 5, and 6. Return activated sludge (RAS) can be mixed with the primary effluent at this point or added directly to each aeration tank. Mixed liquor exiting from the four aeration tanks enters the Mixed Liquor Splitter Box where the flow is currently split into three streams. The flows are transported to Secondary Clarifier Nos. 3, 4, and 5 through three 36-inch pipes. Effluent from the three secondary clarifiers is combined in two 36-inch pipes that combine into a 48-inch pipe before it enters Chlorine Contact Basin Nos. 3 and 4. After passing through the flash mixer, the flow is split between the two chlorine contact basins. Effluent from both chlorine contact basins is combined and flows to the Outfall Box through a 48-inch pipe. At the Outfall Box, effluent is dechlorinated, and then flows toward the river through parallel 48-inch and 33-inch pipelines.

3.3.5 Peak Hydraulic Capacity Analysis Summary

The existing system provides hydraulic control points at each of the major processes, including the primary clarifiers, aeration tanks, secondary clarifiers, and the chlorine contact basins. The control points, in the form of rectangular or v-notch weirs, provide hydraulic breaks between the processes. These hydraulic breaks are needed so that flows are split evenly between process units where required, and so that the processes are operated within design parameters in a manner such that process performance can be maintained.

The submerged flow condition for each of the WPCP main hydraulic breaks is summarized in Table 3.3 along with the results of their associated adequacy evaluation. Since the weirs are at a lower elevation than the top of the structure, the submerged weir condition is the criteria used for peak flow capacity.

Table 3.3 Hydraulic Capacity Summary for WPCP Major Processes

Unit Process	Submerged Effluent Weir Flow Condition (mgd)	Adequate Peak Hydraulic Capacity? ⁽¹⁾		
Primary Clarifiers	29	No		
Aeration Tanks	33	No		
Secondary Clarifiers	33	No		
Chlorine Contact Basins	25	No		
Notes:				
(1) Compared against peak flow projection of 39.6 mgd.				

Facility improvements necessary to meet hydraulic capacity needs within the planning period are discussed in Section 3.4 in context of process needs for the same facilities.



3.4 Treatment Process Capacity Evaluation

Existing plant treatment processes were modeled using BioWinTM, with projected flow and load conditions and more stringent effluent limitations outlined in Chapter 5. The model was calibrated using AA flow and load data from 2020.

The process capacity was evaluated assuming that only Plant 2 secondary and disinfection facilities will be in operation during projected peak flow and loading conditions (per current operation).

Process capacity scenarios modeled for this evaluation are summarized in Table 3.4.

Table 3.4 Modeling Scenarios

Treatment Objective ⁽¹⁾	Process	Current Flows and Loads	Projected Flows and Loads
Current Operation	Nitrifying Activated Sludge with Partial Denitrification	Modeled	Modeled
Reduction of effluent nitrate ⁽²⁾	MLE (Modified-Ludzack Ettinger)	Not Modeled	Modeled
Reduction of effluent TSS/BOD ⁽³⁾	MLE + Filtration	Not Modeled	Modeled
Reduction of inorganics and disinfection byproducts ⁽⁴⁾	MLE + Filtration + Advanced Disinfection	Not Modeled	Modeled

Notes:

- (1) Based on projected regulatory requirements summarized in Chapter 5.
- (2) Less than $10 \text{ mg/L NO3} + \text{NO}_2$.
- (3) 10/15/30 mg/L (average monthly, average weekly, and maximum daily).
- (4) Values currently undefined but would predicate non-chlorine disinfection.

3.4.1 Primary Treatment Facilities

Primary treatment facilities at the plant remove the portion of the influent suspended solids that can be separated from the flow by gravity. These facilities also remove grease, scum, and floatables from the influent. The principal components at the WPCP for the primary treatment process are the primary clarifiers and the primary sludge and scum pumping systems.

3.4.1.1 Primary Clarifiers

Three primary clarifiers are currently in use at the Chico WPCP. All are rectangular in shape and measure 98 feet by 38 feet, with a sidewater depth of 10.3 feet. To maintain acceptable overflow rates through 2057, a fourth primary clarifier would need to be constructed by 2044. The design overflow rate for all clarifiers in service with this additional unit would be 1,150 gallons per day per square foot (gpd/ft²) for projected AA flow and 2,660 gpd/ft² for peak flow. The firm overflow rates for AA and peak flows are 1,530 gpd/ft² and 3,540 gpd/ft², respectively. These overflow rates fall within commonly accepted design criteria.

3.4.1.2 Primary Sludge and Scum Pumping

Primary sludge is thickened in Primary Clarifier Nos. 1 and 2 and pumped by three primary sludge double disc pumps to the digesters, each with a capacity of 200 gpm. Two primary sludge progressive cavity pumps are dedicated to Primary Clarifier No. 3, each with a capacity of 70 gpm at 60 feet of head.

These systems continue to provide sufficient capacity for current loads and treatment objectives as well as projected loads and advanced treatment.

3.4.1.3 Summary of Primary Treatment System Needs

The Headworks facility will need a third mechanical barscreen by 2054.

The primary treatment facilities will require an additional primary clarifier by 2044 and a capacity expansion for the Primary Effluent Lift Station which includes a parallel force main by 2038 and an additional primary effluent pump (with related wet well improvements) by 2054.

3.4.2 Secondary Treatment Facilities

The capacity evaluation presented herein discusses operation of the secondary treatment unit processes in nitrification mode. Nitrification describes the biochemical process whereby NH₃ present in municipal wastewater is oxidized into nitrate. Currently, the WPCP nitrifies the wastewater through a single stage nitrification step, where the nitrification process occurs simultaneously with carbonaceous treatment. Carbonaceous treatment is the oxidation of soluble and particulate organic compounds present in the primary effluent by biochemical processes, which is the primary focus of secondary treatment. Since the front of the aeration tanks is unaerated, partial denitrification is achieved from the nitrate in the RAS returned to these unaerated zones.

3.4.2.1 Aeration Tanks and Secondary Clarifiers

Aeration Tank Nos. 3 through 6 are rectangular and each have a total volume of approximately 4.36 million gallons (MG).

Secondary Clarifier Nos. 3, 4 and 5 are all 100-foot diameter circular tanks with a sidewater depth of 14 feet. Each clarifier has a center pier-mounted rotating sludge collector mechanism driven by a 1 horsepower (hp) motor.

3.4.2.2 Existing Nitrifying Activated Sludge Process

With all 4 existing aeration tanks and all three existing secondary clarifiers in service, the WPCP does not have adequate capacity to treat the projected max month BOD, TSS, and NH3 loads at the projected peak flows.

Using the projected influent TSS loads developed in Chapter 2 and assuming a sludge volume index (SVI) of 120 mL/g, the existing Aeration Tank #6 may need to be in service by 2023, assuming MM loads occur concurrent to peak flows. The operation of this fourth aeration tank will dilute the mixed liquor concentration to ensure that the three existing secondary clarifiers can provide adequate treatment.



Impact of Sludge Retention Time on Facility Needs

The City currently sees significant energy savings by operating the aeration tanks under suboxic conditions (i.e. dissolved oxygen ranging from 0.5 to 1 mg/L). The process has been optimized to operate under these conditions at an 11-day solids retention time (SRT) with the SRT and DON Master, which control aeration and wasting for the secondary process.

With all four existing aeration tanks and all three existing secondary clarifiers in service, assuming no change to the current SRT of 11 days in the near-term, the need for a new (fourth) secondary clarifier is projected by 2028. Reducing the SRT to 9 days shifts this need for a new fourth secondary clarifier back 2 years to 2030.

While a 9-day SRT is sufficient for meeting effluent ammonia targets, it's not certain if the same level of nutrient reduction can be achieved as with an 11-day SRT. Since maintaining an 11-day SRT will require more aeration tanks and secondary clarifiers at buildout (2057) than a 9-day SRT would require for the same level of treatment, the City is open to operation with a 9-day SRT in the future. Thus, alternatives evaluated for improving the secondary treatment process long-term use an SRT of 9 days, while near-term needs are evaluated based on the current SRT of 11 days. Options for secondary system upgrades to meet the projected flows and loads at an SRT of 9 day are discussed in more detail in Chapter 4. In short, the WPCP will need 2-4 new secondary clarifiers and 2-3 new aeration tanks, depending on selected configuration. Refer to Table 3.5 for the estimated timeline that each structure will be needed.

Impact of Sludge Volume Index on Facility Needs

The timeline for required upgrades may shift if there is a significant increase in the plant's SVI, which could occur after transitioning to the Modified Ludzack-Ettinger (MLE) process by 2032 (discussed herein and in Chapter 5). Although the WPCP has consistently produced sludge with SVIs below 120 mL/g, transitioning an activated sludge process to the MLE process can sometimes result in poorer settling and higher SVIs. Observations conducted subsequent to that transition to MLE will better define the timing for more clarifier upgrades needed within the planning period.

Under projected peak flows, the secondary clarifiers would collectively have a total surface overflow rate between 720 gpd/ft² (assuming 7 total secondary clarifiers) and 1,110 gpd/ft² (assuming 5 total secondary clarifiers), depending on the configuration at buildout as discussed in Chapter 4. These surface overflow rates fall within commonly accepted design criteria⁶. The solids loading for both configurations was also confirmed to be within acceptable operating ranges using a state point analysis.

3.4.2.3 Regulatory-Driven Capacity Impacts

To meet the future anticipated total nitrogen (combined nitrate and nitrite) effluent limit of <10 mg/L, it is recommended that the aeration tanks be reconfigured for the MLE process. MLE is a very common nitrogen removal process. With this process, removal of NH₃ occurs with similar operation as that currently used at the WPCP (long [7+ day] SRT and additional aeration to facilitate nitrification in the aerobic portions of the aeration tanks), but includes an anoxic zone to induce denitrification.

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⁶ Maximum recommended surface overflow rate at peak flow is 1,200 qpd/ft² (Ten-States Standards).

As mentioned previously, some nitrate removal is already being achieved through introduction of the RAS in the unaerated zones at the front of the aeration basins. To facilitate more nitrate removal, mixed liquor recycle (MLR) pumps will be added to increase the amount of nitrate returned to the unaerated zones at the front of the aeration tanks. With the current 2-pass wrap -around configuration, MLR pumping could be added in the common wall at the east end of the tanks, providing a relatively low-cost nutrient removal upgrade.

At a MLR ratio of 300 percent (3 times the influent flow to each tank is recycled back to the anoxic zones), upgraded Aeration Tank Nos. 3 through 6 can produce effluent with approximately 15 mg/L combined nitrate and nitrite at current demands. MLR rates above 300 percent provide diminishing returns in terms of nitrate removal.

Based on the process model (calibrated using the last full year of operational data from 2020) there is not enough soluble BOD (the carbon source for the bacteria) in the primary effluent to support denitrification to treatment levels below 10 mg/L. To increase the soluble BOD and improve the denitrification capacity, a range of options are available:

- Increasing the MLR rate improves nitrate removal but very minimally.
- Increasing the anoxic volume to 50 percent of the total tanks volume, which can be
 accomplished with the addition of baffle walls, can achieve the required reduction but
 comes at the expense of reduced aerobic volume (necessary for BOD and NH₃ removal)
 which decreases the ability of the system to adequately treat any significant short-term
 change of influent characteristics.
- Adding chemical "food" addition (e.g., methanol or acetate) directly to the process. This
 approach is typically a last resort (due to high capital and operational costs), but it is the
 best option in this case since it will minimize the number of aeration tanks that will be
 needed in the future.

A detailed wastewater characterization and refined plant process model (using dynamic analysis) is recommended during design of the secondary treatment expansion processes to confirm sizing for the required methanol feed facility.

3.4.2.4 Aeration Capacity

Three high-speed turbo blowers currently supply the aeration system air at the WPCP. One blower has a nameplate capacity of 4,500 standard cubic feet per minute (scfm) at a pressure of 9.1 pounds per square inch gauge (psig), and the other two blowers are dual core and each have a nameplate capacity of 7,800 scfm (3,900 scfm per core) at 9.5 psig. Air requirements in nitrifying activated sludge mode (current operation) at projected AA and MM loads are estimated to range from 13,700 to 14,600 scfm, and 18,300 to 19,500 scfm, respectively, depending on the treatment plant configuration and operation at buildout.

The existing system has a firm capacity of 15,600 scfm, with a blower nameplate capacity of 20,100 scfm, and is sufficient for projected AA loads but not for MM loads. Additionally, actual performance of the dual core blowers has not yet been established relative to the rated capacity and the remaining blower did not match the rated capacity.

Additional aeration capacity will be needed for the modified build-out condition.



3.4.2.5 Plant 2 RAS and WAS Pumping

RAS Pump Station No. 2 consists of four horizontal mixed-flow centrifugal pumps, each with a capacity of 2,100 gpm at 24 feet of head. A RAS pump is dedicated to each of the three secondary clarifiers, and a fourth pump is configured for standby use by any of the clarifiers. A total of 9 mgd firm RAS pumping capacity is provided by RAS Pump Station No. 2.

The waste activated sludge (WAS) pumps are also located at the RAS Pump Station No. 2. The WAS pumps consist of two progressive cavity pumps, each with a capacity of 150 gpm at 35 feet of head.

These systems will not provide sufficient firm capacity for projected loads and treatment objectives. At least 4 additional RAS pumps and 1 additional WAS pump will be required to provide firm capacity for projected RAS and WAS flows at the projected MM flows and loads; however, it is most likely that 1 additional RAS pump will be provided for each new secondary clarifier that is built and that 1 additional WAS pump will be provided for every 2 new secondary clarifiers that are built, which would also provide sufficient capacity.

3.4.2.6 Summary of Secondary Treatment System Needs

The secondary treatment facilities will require significant improvements to adequately treat the projected flows and loads through 2057. This includes a new secondary clarifier by 2028, and up to three more secondary clarifiers and three more aeration tanks by 2057. Additional blowers and RAS/WAS pumps will also be needed to support the new aeration tanks and clarifiers, plus ancillary facilities.

To address regulatory requirements, MLE upgrades and a supplemental carbon facility will be needed by 2032.

3.4.3 Disinfection

The existing plant effluent disinfection system uses liquid sodium hypochlorite solution (SHS) to disinfect the secondary effluent, and liquid sodium bisulfite solution (SBS) to dechlorinate the disinfected effluent prior to discharge.

3.4.3.1 Sodium Hypochlorite Feed System

SHS is stored in two 9,500-gallon storage tanks located at the Chemical Building. The Chemical Building contains four metering pumps for distribution of SHS throughout the plant; two that are rated at 150 gallons per hour (gph) and two that are rated at 60 gph. The 150 gph pumps delivers SHS for chlorination of the effluent at Chlorine Contact Basin Nos. 3 and 4, and the 60 gph pumps deliver SHS to the other dosing points within the plant (with duty/standby configuration for both pumping systems).

The SHS feed system does not has enough storage and pumping capacity to meet the plant demands at projected AA and peak flows and it is recommended additional SHS pumps and storage be installed at the same time the new CCB described below is constructed.

3.4.3.2 Disinfection Contact Facilities

Chlorine Contact Basin Nos. 3 and 4 each have a volume of 257,000 gallons. In normal operation, the basins are operated in parallel. Each of the basins can be taken out of service for cleaning and other maintenance purposes.



The existing facilities are not sufficient to provide a 30-minute hydraulic residence time (HRT) at the projected peak flow of 39.6 mgd nor are they sufficient to provide a 60-minute chlorine contact (CT) time at the projected AA flow of 17.1 mgd. An additional CCB, equal in size to the two existing CCBs will be required by 2033 to provide a sufficient HRT and a sufficient CT time for the projected flows.

3.4.3.3 Dechlorination Facilities

The SBS feed system consists of two 6,500-gallon liquid SBS storage tanks, two 80 gph metering pumps, two chlorine residual analyzers, and ancillary equipment.

The Outfall Box gates are hydraulically actuated and are connected to the plant SCADA system to allow flow to the river to be interrupted upon detection of a positive chlorine residual. The gate controlling pond discharge is also integrated within the hydraulic controls, allowing for automated diversion. Modification of the Outfall Box will be needed to meet the projected peak flow condition.

The SBS feed system does not has enough storage and pumping capacity to meet the plant demands at projected AA and peak flows and it is recommended additional SBS pumps and storage be installed at the same time the new CCB described above is constructed.

3.4.3.4 Summary of Disinfection and Dechlorination Facility Needs

The existing chlorine contact basins are not adequately sized for projected AA and peak flows, and the existing chlorination and dechlorination chemical storage and delivery facilities are also not adequately sized for the projected flows.

To provide adequate disinfection and dechlorination for peak flows through 2057, an expansion of the disinfection and dechlorination facilities will likely be needed by 2033. These include one additional chlorine contact basin, increased SHS and SBS storage and pumping capacity, and modification of the Outfall Box.

As discussed in Chapter 5, it is anticipated that the City will be required to implement alternate disinfection (non-chlorination) by 2047. The City may consider expedited implementation of the alternate disinfection facilities to avoid sunk costs associated with construction of the needed disinfection system upgrade in 2033.

3.4.4 Solids Handling

Existing on-site solids handling systems at the plant are evaluated in the following subsections.

3.4.4.1 Primary Solids Thickening

Solids removed from the primary clarifiers were previously thickened in a single 55-foot diameter gravity thickener converted from a primary clarifier. The generous sizing was because this tank was initially used as a primary clarifier and then used as a thickener for both primary and secondary sludge. This practice was discontinued when the first dissolved air flotation thickener (DAFT) was constructed to separately thicken WAS.

The recent conversion of the Primary Clarifier No. 1 and 2 sludge pumps to positive displacement, double disc diaphragm pumps has allowed WPCP staff to experiment with sludge thickening directly in all of the primary clarifiers. Previously this capability was only possible in Primary Clarifier No. 3. To date the WPCP has had positive results with this change and the gravity thickener process is currently not in use.



3.4.4.2 WAS Thickening

WAS is presently thickened separately from primary sludge prior to stabilization in the anaerobic digesters. Dual 25-foot diameter dissolved air flotation thickeners (DAFTs) are provided for this purpose. Operation of the two existing DAFTs provides sufficient capacity to thicken WAS at the projected MM flows of 21.7 mgd. In the event that one DAFT is out of service, the remaining unit could be operated at a level exceeding its design capacity.

WAS pumping can be interrupted for short term periods since it is not critical to waste secondary solids continuously so long as the appropriate waste volume is maintained over time. The presence of a second unit provides additional reliability for the WAS thickening process. One unit may be out of service for maintenance reasons without adversely affecting the process and can accommodate longer shutdown periods, if required.

The existing system provides adequate capacity for the projected AA and MM loads.

3.4.4.3 Anaerobic Digestion

Solids generated from the primary sedimentation and secondary treatment processes are stabilized in three 70-foot diameter anaerobic digesters (Anaerobic Digester Nos. 1, 2, and 4) having a combined volume of 277,500 cubic feet (2,077,500 gallons). The sludge is heated for Anaerobic Digester Nos. 1, 2, with pumped circulation of the digester contents through external heat exchangers. Externally mounted pumps provide mixing within the digesters.

The floating cover digester was converted to Anaerobic Digester No. 3 and serves primarily as a sludge storage/holding tank for the solids dewatering process. This tank is a 60-foot diameter tank with a total effective storage of 32,500 cubic feet (243,000 gallons). This volume provides approximately 1.5 days sludge storage at a plant influent flow rate of 17.1 mgd. Anaerobic Digester No. 3 could also be heated and used as a primary digester if Digester No. 1, 2, or 4 is out of service. Anaerobic Digester No. 3 has a gas mixing system and recirculation pump discharge nozzles to keep the contents of the digester mixed before the dewatering process.

At the projected sludge generation rate, Anaerobic Digester Nos. 1, 2, and 4 are capable of providing a theoretical detention time of about 15.4 days under MM loading conditions. A minimum detention time of 15 days at MM loadings is required for the solids to meet federal EPA requirements as a Process to Significantly Reduce Pathogens (PSRP). Compliance with the PSRP requirements is essential to provide the City with the stabilization needed for the biosolids to be classified as Class B, as required for land application.

The existing system provides adequate capacity for the projected AA and MM loads.

3.4.4.4 Solids Dewatering

Two separate methods of solids dewatering are available at the WPCP. Digested sludge from Anaerobic Digester No. 3 can be fed to the centrifuge for solids dewatering. The centrifuge mechanically dewaters the digested sludge through high-speed rotation, concentrating the solids into a "cake." The centrifuge utilizes polymer to flocculate the solids prior to dewatering. Following centrifuge dewatering, the solids can either be directly off-hauled, or stored on site for future disposal. The WPCP currently dewaters all solids via centrifuge and has them off-hauled directly through a contract with Synagro.

Alternatively, digested sludge may be directly transferred to the drying beds located to the north of the WPCP unit processes. These drying beds may be also used for further drying of the cake

solids from the centrifuge, or digested sludge can be transferred to the beds directly from the digesters. After completion of solar drying, the solids can be stockpiled in two designated areas to await off haul.

The existing centrifuges were designed to dewater digested sludge from the sludge storage tank (Anaerobic Digester No. 3) for 45 hours per week at 18 mgd MM design conditions. However, even at an MM flow of 21.7 mgd, the centrifuge firm capacity will likely be sufficient to keep the centrifuge run time below 31 hours per week. Under this operational strategy and at a projected MM flow of 21.7 mgd in 2057, the solids dewatering process has adequate capacity.

3.4.4.5 Digester Gas

Digester gas is a usable byproduct produced continually by the anaerobic digesters. Digester gas is utilized in two areas: the boilers of the integrated-type sludge heaters and the cogeneration system. The demand for gas by the boilers and cogeneration system is intermittent and variable.

There are presently no facilities at the plant intended for the storage of gas produced by the anaerobic digestion process. A very limited amount of storage is available in the space between the digester domes on the fixed-roof digesters and the surface of the digester contents. Once this space is filled and the gas demand is satisfied, excess gas is flared in the waste gas burner. The cogeneration feasibility study determined that digester gas storage did not provide an economic benefit to operate in a peak shaving mode. This analysis is not repeated herein.

3.4.4.6 Summary of Solids Handling Facility Needs

The solids handling facilities have adequate capacity to support project flows and loads discussed herein.

3.5 Summary of WPCP Capacity Limitations

The WPCP does not have the capacity for adequate treatment of the currently projected flows and loads through the planning period ending in 2057.

A summary of capacity-driven facility needs is included in Table 3.5, including the estimated timeline for implementation of each improvement.



Table 3.5 Summary of Capacity-Driven Facility Needs

Improvement	Required Timeline ⁽¹⁾
Fourth Secondary Clarifier	2028(2)
Supplemental Carbon Project ⁽³⁾	2032
Chlorine Contact Basin ⁽⁴⁾	2033 ⁽⁵⁾
Fifth Secondary Clarifier ⁽⁶⁾	2036(7)
Primary Effluent Parallel Force Main	2038
Sixth Secondary Clarifier ⁽⁶⁾	2039 ⁽⁷⁾
Fifth Aeration Tank ⁽⁸⁾	2044 ⁽⁷⁾
Primary Clarifier#4	2044
Sixth Aeration Tank ⁽⁸⁾	2053 ⁽⁷⁾
Primary Effluent Pump Station Improvements	2054
Mechanical Barscreen	2054

Notes:

- (1) Based on projected flows and loads summarized in Chapter 2 and existing process limitations discussed in this chapter.
- (2) Assumes current 11-day SRT is maintained.
- (3) Associated with the regulatory-driven MLE project.
- (4) Plus ancillary facilities (SBS and SHS storage and pumping, Outfall Box modifications, and associated structural/civil/electrical/instrumentation improvements).
- (5) City may consider implementation of alternate disinfection in lieu of additional chlorine contact facility construction.
- (6) Plus ancillary facilities (RAS/WAS pumping and associated structural/civil/electrical/instrumentation improvements) and southern pond improvements necessary for secondary expansion in that area.
- (7) Assumes SRT of 9-days and a planned facility layout that includes 1 new (100-ft diameter) secondary clarifier, 2 new (125-ft diameter) secondary clarifiers, and 2 new aeration tanks. Additional expansion options are presented in Chapter 4.
- (8) Plus ancillary facilities (blower and electrical building and associated upgrades, ancillary structural/civil/electrical/instrumentation improvements, and a standby generator).



Chapter 4

CAPACITY-DRIVEN FACILITY NEEDS

Expansion alternatives for the WPCP are evaluated herein to achieve interim and final capacity needed for the facility given updated flow and load projections presented in Chapter 2 and identified capacity limitations identified in Chapter 3.

4.1 Approach

Processes and areas that will require capacity expansion and/or upgrade were identified in Chapter 3. Recommended improvements are discussed by WPCP area herein, with a summary of probable implementation schedule and conceptual level project cost estimates for each improvement.

4.2 Headworks

A third mechanical barscreen will be required by 2054 to adequately handle the projected peak flows. The following improvements are needed as part of the barscreen project:

- Demolition of existing manual bar rack.
- Installation of new mechanical barscreen.
- Extension of existing screenings conveyor¹.
- Ancillary structural, electrical, and instrumentation improvements.

The estimated costs for the new bar screen are \$500,000 (construction cost) and \$600,000² (project cost), both in December 2021 dollars. This cost is carried through in Chapter 1 and 7 summary tables with forecasted implementation by 2054.

4.3 Primary Clarification

A fourth primary clarifier will need to be constructed by 2044 to maintain acceptable overflow rates in the primary clarifiers (Figure 4.1).

The existing primary sludge and scum pumping systems provide sufficient capacity for the projected loads and advanced treatment but will need to be reconfigured for use with the new primary clarifier.

² Project cost factor reduced to 15% due to project simplicity.



¹ Assumes that screenings conveyor is still in appropriate condition for extension. May require conveyor replacement.



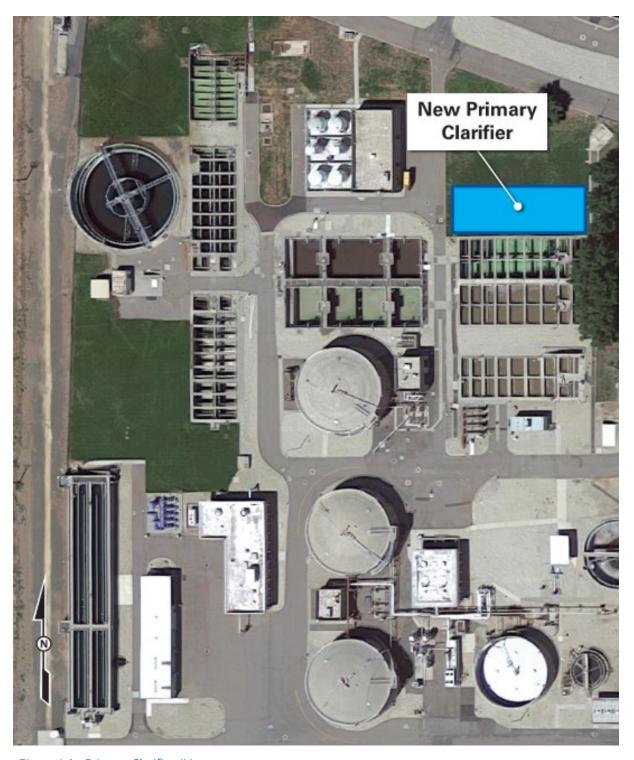


Figure 4.1 Primary Clarifier #4



The following improvements are needed as part of the primary clarifier project:

- Primary clarifier.
- Reconfiguration of existing sludge and scum pumping systems³.
- Ancillary civil, structural, electrical, and instrumentation improvements.

The estimated costs for the primary clarifier project are \$3.7 million (construction cost) and \$5.0 million (project cost), both in December 2021 dollars. This cost is carried through in Chapter 1 and 7 summary tables with forecasted implementation by 2044.

4.4 Primary Effluent Pumping

Primary Effluent Lift Stations improvements will be required by 2038 to increase the hydraulic capacity of the system for anticipated peak flows. The following improvements are needed to upgrade the Primary Effluent Lift Station project for the build-out flows:

- Parallel force main between the primary effluent lift station and the Plant 2 aeration tanks (by 2038).
- Primary Effluent Lift Station improvements (by 2054):
 - Wet well expansion.
 - Additional primary effluent pump.
 - Ancillary mechanical, electrical, and instrumentation improvements.

The estimated construction costs for the improvements associated with the Primary Effluent Parallel Force Main and Lift Station Improvement Projects are \$800K and \$1.7 million, respectively, with estimated project costs totaling \$1.1 million and \$2.1 million, respectively.

All costs (all in December 2021 dollars) are carried through in Chapter 1 and 7 summary tables with forecasted need as discussed above.

4.5 Secondary Treatment Facilities

The secondary treatment facilities will require significant improvements to provide adequate treatment through 2057. Near- and long-term improvement recommendations are summarized in Table 4.1 and individual secondary treatment process components are discussed herein.

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³ Existing pumping systems will likely have been replaced before the project is needed. The City should consider the future primary clarifier when/if pumping system adjustments are made.

Table 4.1 Secondary Treatment Facility Improvements

Existing WPCP (2022)	Near-Term Improvements (<2030)	Long-Term Improvements (<2057)
		MLE Upgrades
		Supplemental Carbon
4 Total Aeration Tanks		2 New Aeration Tanks (6 total)
3 Total Secondary Clarifiers	1 New Secondary Clarifier (4 total)	3 New Secondary Clarifiers (6 total) ⁽¹⁾
		Blower Upgrades
	RAS/WAS Pumping Upgrades	RAS/WAS Pumping Upgrades
Notes:	·	·

Notes:

4.5.1 Near-Term Improvements

An additional secondary clarifier will be needed by 2028 at the current WPCP operation with 11-day SRT. The addition of a fourth secondary clarifier will increase the total volume of secondary clarifiers from 2.47 MG to 3.30 MG (Figure 4.2).



⁽¹⁾ Based on Secondary Treatment Expansion Option 3 presented herein. Includes one secondary clarifier matching existing unit sizing (100-ft diameter) and two larger (125-ft diameter) clarifiers.



Figure 4.2 Fourth Secondary Clarifier



The following improvements are needed as part of the Secondary Clarifier project:

- 100-foot diameter Secondary Clarifier with 14-ft side water depth.
- Dedicated RAS and WAS pumps (installed at existing RAS/WAS pump station).
- Ancillary civil, structural, electrical, and instrumentation improvements.

The estimated costs for the improvements associated with the 2028 Secondary Treatment improvements is \$8.0 million (construction cost) and \$10.7 million (project cost), both in December 2021 dollars. This cost is carried through in Chapter 1 and 7 summary tables with a forecasted need for a fourth secondary clarifier by 2028.

4.5.2 Options for Secondary Treatment Expansion

To provide adequate secondary treatment capacity through 2057, new aeration tanks and secondary clarifiers will be needed, with quantities of each contingent on SRT operation (Chapter 3) and City preference for facility layout. Following discussion with City staff, a 9-day SRT was selected for long-term planning and three options were identified:

- Option 1: Two new aeration tanks (6 total) and 4 new secondary clarifiers (7 total).
- Option 2: Three new aeration tanks (7 total) and 2 new secondary clarifiers (5 total).
- Option 3: Two new aeration tanks (6 total) and 3 new secondary clarifiers (of differing sizes).

For all options, the aeration tanks (new and existing) will need to be modified with MLE and supplemental carbon upgrades (discussed in Chapters 3 and 5).

4.5.2.1 Option 1

A potential layout for Option 1 is included below as Figure 4.3.



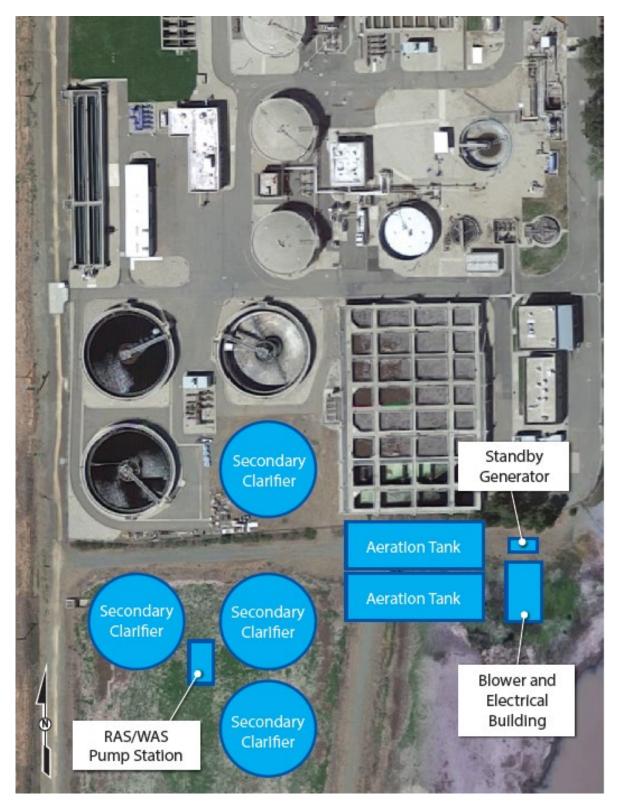


Figure 4.3 Secondary Expansion (Option 1)



Based on a long-term plan to adjust facility operation to meet a 9-day SRT, the following improvements will be needed for the Option 1 secondary expansion alternative:

- 2 new aeration tanks (rectangular, 2.2 MG each with MLE improvements).
- 3 additional secondary clarifiers (100 ft circular, 14 ft SWD).
- RAS/WAS pumping facilities (4 RAS and 2 WAS pumps).
- RAS/WAS electrical building.
- New Blower and electrical room (3 blowers).
- Standby generator.
- Ancillary civil, structural, electrical, and instrumentation improvements.

Project costs estimates were prepared for this option based on component costs developed to correspond with staged construction (i.e. as facilities are needed).

Refer to Table 4.2 for a summary of component costs associated with Option 1.

Table 4.2 Option 1 Component Costs

Treatment Unit	# Required	Component Project Cost	Total System Project Cost
Secondary Clarifier ⁽¹⁾	3 ⁽²⁾	\$10.7 M	\$32.1 M
Aeration Tank ⁽³⁾	2	\$14.5 M	\$29.0 M
MLE Upgrades ⁽⁴⁾	2	\$1.1 M	\$2.2 M
RAS/WAS Pump Station and Electrical Building ⁽⁵⁾	1	\$1.8 M	\$1.8 M
Blower and Electrical Room ⁽⁶⁾	1	\$6.3 M	\$6.3 M
Standby Generator	1	\$1.5 M	\$1.5 M
Southern Pond Improvements for Secondary Expansion	1	\$0.9M	\$0.9M
	E	stimated Proiect Cost ⁽⁷⁾	\$73.8 M ⁽⁸⁾

Notes:

- (1) 100-ft diameter with 14-ft side water depth.
- (2) Cost for 3 secondary clarifiers included here, with cost for the fourth clarifier discussed separately (as near-term improvement in Section 4.5.1.
- (3) 2.2 MG capacity matching layout of existing aeration tanks.
- (4) Cost presented as a ratio of the costs presented in Chapter 5 for existing basin retrofit.
- (5) Includes four (4) RAS pump and three (3) WAS pumps, with similar layout as existing RAS/WAS pump station facilities.
- (6) Includes three (3) blowers, with similar layout as existing blower building facilities.
- (7) In December 2021 dollars (ENR CCI 12482).
- (8) Actual project cost may differ if constructed as one project.

This option is expensive due to the number of structures required.

4.5.2.2 Option 2

A potential layout for Option 2 is included below as Figure 4.4.





Figure 4.4 Secondary Expansion (Option 2)



Based on a long-term plan to adjust facility operation to meet a 9-day SRT, the following improvements will be needed for the Option 2 secondary expansion alternative:

- 3 new aeration tanks (rectangular, 2.2 MG each with MLE improvements).
- 1 additional secondary clarifier (100 ft circular, 14 ft SWD).
- RAS/WAS pumping facilities (2 RAS and 2 WAS pumps).
- RAS/WAS electrical building.
- New Blower and electrical room (4 blowers).
- Standby generator.
- Ancillary civil, structural, electrical, and instrumentation improvements.

Project costs estimates were prepared for this option based on component costs developed to correspond with staged construction (i.e. as facilities are needed).

Refer to Table 4.3 for a summary of component costs associated with Option 2.

Table 4.3 Option 2 Component Costs

Treatment Unit	# Required	Component Project Cost	Total System Project Cost
Secondary Clarifier ⁽¹⁾	1 ⁽²⁾	\$10.7 M	\$10.7 M
Aeration Tank ⁽³⁾	3	\$14.5 M	\$43.5 M
MLE Upgrades ⁽⁴⁾	3	\$1.1 M	\$3.3 M
RAS/WAS Pump Station and Electrical Building ⁽⁵⁾	1	\$1.4 M	\$1.4 M
Blower and Electrical Room ⁽⁶⁾	1	\$7.2 M	\$7.2 M
Standby Generator	1	\$1.5 M	\$1.5 M
Southern Pond Improvements for Secondary Expansion	1	\$0.9M	\$0.9M
	E	stimated Project Cost ⁽⁷⁾	\$68.5 M ⁽⁸⁾

Notes:

- (1) 100-ft diameter with 14-ft side water depth.
- (2) Cost for 1 secondary clarifier included here, with cost for the fourth clarifier discussed separately (as near-term improvement in Section 4.5.1.
- (3) 2.2 MG capacity with MLE upgrades incorporated at time of construction.
- (4) Cost presented as a ratio of the costs presented in Chapter 5 for existing basin retrofit.
- (5) Includes two (2) RAS pump and two (2) WAS pumps, with similar layout as existing RAS/WAS pump station facilities.
- (6) Includes four (4) blowers, with similar layout as existing blower building facilities.
- (7) In December 2021 dollars (ENR CCI 12482).
- (8) Actual project cost may differ if constructed as one project.

This option also presents a flow-split challenge that will be difficult to overcome and has high operational (and life cycle) costs compared to Option 1.

4.5.2.3 Option 3

A potential layout for Option 3 is included below as Figure 4.5.





Figure 4.5 Secondary Expansion (Option 3)



Based on a long-term plan to adjust facility operation to meet a 9-day SRT, the following improvements will be needed for the Option 3 secondary expansion alternative:

- 2 new aeration tanks (rectangular, 2.2 MG each with MLE improvements).
- 2 additional secondary clarifiers (125 ft circular, 14 ft SWD).
- RAS/WAS pumping facilities (3 RAS and 2 WAS pumps).
- RAS/WAS electrical building.
- New Blower and electrical room (3 blowers).
- Standby generator.
- Ancillary civil, structural, electrical, and instrumentation improvements.

Project costs estimates were prepared for this option based on component costs developed to correspond with staged construction (i.e. as facilities are needed).

Refer to Table 4.4 for a summary of component costs associated with Option 3.

Table 4.4 Option 3 Component Costs

Treatment Unit	# Required	Component Project Cost	Total System Project Cost
Secondary Clarifier ⁽¹⁾	2 ⁽²⁾	\$13.4 M	\$26.8 M
Aeration Tank ⁽³⁾	2	\$14.5 M	\$29.0 M
MLE Upgrades ⁽⁴⁾	2	\$1.1 M	\$2.2 M
RAS/WAS Pump Station and Electrical Building ⁽⁵⁾	1	\$1.6 M	\$1.6 M
Blower and Electrical Room ⁽⁶⁾	1	\$6.3 M	\$6.3 M
Standby Generator	1	\$1.5 M	\$1.5 M
Southern Pond Improvements for Secondary Expansion	1	\$0.9M	\$0.9M
	E	stimated Project Cost ⁽⁷⁾	\$68.3 M ⁽⁸⁾

Notes:

- (1) 125-ft diameter each with 14-ft side water depth.
- (2) Cost for 2 secondary clarifiers included here, with cost for the fourth clarifier discussed separately (as near-term improvement in Section 4.5.1).
- (3) 2.2 MG capacity with MLE upgrades incorporated at time of construction.
- (4) Cost presented as a ratio of the costs presented in Chapter 5 for existing basin retrofit.
- (5) Includes two (2) RAS pump and two (2) WAS pumps, with similar layout as existing RAS/WAS pump station facilities.
- (6) Includes three (3) blowers, with similar layout as existing blower building facilities.
- (7) In December 2021 dollars (ENR CCI 12482).
- (8) Actual project cost may differ if constructed as one project.

This option has an approximate capital cost estimate equal to Option 2 (both significantly less than Option 1) and low operational costs compared to Option 2. Additionally, this layout can be configured to operate in parallel with the existing facility (operating as "Plant 3"), thus enhancing flow split.

Option 3 provides the most benefit to the City at the least cost.

The projected timeline for implementation and project costs for the various facilities that make up Option 3 are summarized in Table 4.4 (Section 4.7) and carried through in Chapter 1 and 7 summary tables.

4.6 Disinfection and Dechlorination

As discussed in Chapter 3, additional disinfection and dechlorination facilities are required by 2033 to adequately treat the projected flows. The location/layout for a new chlorine contact basin, which will be required by 2033 to treat peak flow conditions, is included below as Figure 4.6.



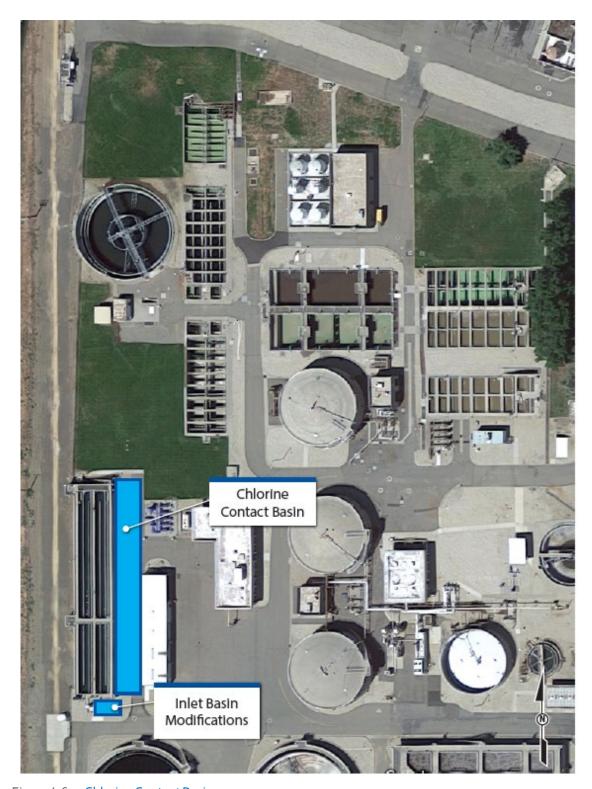


Figure 4.6 Chlorine Contact Basin



The following improvements are needed as part of the Disinfection Facilities project:

- 1 new chlorine contact basin (CCB).
- CCB inlet basin modifications.
- Additional sodium hypochlorite (SHS) storage and feed pumps.
- Additional sodium bisulfite (SBS) storage and feed pumps.
- Outfall box improvements.
- Ancillary civil, structural, electrical, and instrumentation improvements.

A summary of estimated project component costs is included below as Table 4.5.

Table 4.5 Disinfection System Improvement Costs

Treatment Unit	Estimated Construction Cost ⁽¹⁾⁽²⁾	Estimated Project Cost (1)(3)
Chlorine Contact Basin ⁽⁴⁾	\$4.1 M	\$5.1 M
SHS and SBS Storage and Feed Facility Improvements ⁽⁵⁾	\$1.3 M	\$1.6 M

Notes:

- (1) Costs are in December 2021 dollars based on ENR-CCI CCI of 12482.
- (2) Includes estimating contingency of 40% applied to total direct cost, general conditions and contractor overhead and profit contingencies at 18% of total direct cost (each), and local sales tax of 7.25% applied to half of the total direct cost.
- (3) Includes project cost factor of 35% for legal, administration, permitting, design, and engineering services during construction.
- (4) Includes cost for CCB inlet basin modifications.
- (5) Includes cost for outfall box modifications.

These costs are carried through in Chapter 1 and 7 summary tables with forecasted implementation by 2033.

As discussed in Chapter 5, it is anticipated that the City will be required to implement alternate disinfection (non-chlorination) by 2047. The City may consider expedited implementation of the alternate disinfection facilities to avoid sunk costs associated with construction of the needed disinfection system upgrade in 2033.

4.6.1 Solids Handling

As discussed in chapter 3, the WPCP solids handling facilities have adequate capacity to support projected flows and loads discussed herein. No project costs are carried through for these facilities.

4.7 Summary of Capacity-Driven Facility Needs

Table 4.6 includes a summary of recommended projects based on anticipated capacity-driven facility needs through 2057, along with predicted timelines for implementation of each and planning level construction and project cost estimates (presented in December 2021 dollars).

The total capacity-driven project cost estimate of \$94.9 M is escalated to December 2026 dollars (\$118.3 M) for the connection payment calculation option presented in Chapter 1 with use of a projected average annual interest rate of 4.5 percent.

Table 4.6 Summary of Capacity-Driven Facility Needs

Projected Timeline for Implementation			Estimated Project Cost ⁽¹⁾⁽³⁾	
2028	Secondary Clarifier # 6 ⁽⁴⁾ (fourth clarifier in Plant 2)	\$8,000,000	\$10,700,000	
2032	Supplemental Carbon Project	\$300,000	\$400,000	
2033	Chlorine Contact Basin	\$4,100,000	\$5,100,000	
2033	Chemical Storage and Feed Facility Improvements (SHS and SBS)	\$1,300,000	\$1,600,000	
2036	Southern Pond Improvements for Secondary Expansion	\$700,000	\$900,000	
2036	Secondary Clarifier #7 ⁽⁵⁾ (fifth clarifier in Plant 2)	\$10,000,000	\$13,400,000	
2036	RAS/WAS Pump Station and Electrical Building ⁽⁶⁾	\$1,300,000	\$1,600,0000	
2038	Parallel Force Main Improvements	\$800,000	\$1,100,000	
2039	Secondary Clarifier #8 (sixth clarifier in Plant 2)	\$10,000,000	\$13,400,000	
2044	Aeration Tank #5 ⁽⁷⁾	\$11,700,000	\$15,600,000	
2044	Blower and Electrical Building ⁽⁶⁾	\$5,000,000	\$6,300,000	
2045	Primary Clarifier #4	\$3,700,000	\$5,000,000	
2053	Aeration Tank #6 ⁽⁷⁾	\$11,700,000	\$15,600,000	
2054	Primary Effluent Lift Station Improvements	\$1,700,000	\$2,100,000	
2054	Bar Screen #3	\$500,000	\$600,000	
	Total Required Capital Investment	\$72,000,000	\$94,900,000	

Notes:

- (1) Costs are in December 2021 dollars based on ENR-CCI CCI of 12482.
- (2) Includes estimating contingency of 40% applied to total direct cost, general conditions and contractor overhead and profit contingencies at 18% of total direct cost (each), and local sales tax of 7.25% applied to half of the total direct cost.
- (3) Includes project cost factor of 35% for legal, administration, permitting, design, and engineering services during construction.
- (4) 100-foot diameter secondary clarifier.
- (5) 125-foot diameter secondary clarifier.
- (6) Based on Secondary Treatment Expansion Option 3 layout (Chapter 4).
- (7) With denitrification improvements (MLE).



Chapter 5

REGULATORY-DRIVEN FACILITY NEEDS

Waste discharge requirements (WDRs) issued for the WPCP reflect both state and federal laws, regulations, and policies related to water quality pollution. As these laws, regulations, and policies become more stringent over time, the need for more advanced wastewater treatment at the WPCP will increase. This chapter includes a summary of facility needs that could be required to comply with these changing regulations, referred to herein as "regulatory-driven facility needs".

5.1 Existing Discharge Requirements

The effluent discharge requirements for the WPCP are issued by the Regional Water Quality Control Board (RWQCB), Central Valley Region in California. The RWQCB is the regional authority of the State Water Resources Control Board (SWRCB). In addition to the state laws and regulations, the effluent discharge requirements also incorporate federal laws and regulations. This is because the federal Environmental Protection Agency (EPA) has delegated the authority for issuing federal National Pollutant Discharge Elimination System (NPDES) permits to the SWRCB.

The current WDRs for the WPCP are established in Order No. R5-2016-0023 (NPDES No. CA0079081). The Order includes two permitted discharge locations:

- D-001: Discharge to the Sacramento River (surface water discharge).
- D-002: Discharge to the underlying groundwater (land discharge).

Current effluent limitations for discharge to the Sacramento River are summarized in Table 5.1.

Table 5.1 Current Effluent Limitations for Effluent Discharge to the Sacramento River

Parameter Parameter	Units	Average Monthly	Average Weekly	Maximum Daily	Instantaneous Minimum	Instantaneous Maximum
Biochemical Oxygen Demand (BOD₅)	mg/L	30	45	90	-	-
(5-day @ 20 degrees Celsius)	lbs/day(1)	3,002	4,504	9,007	-	-
TCC	mg/L	30	45	90	-	-
TSS	lbs/day(1)	3,002	4,504	9,007	-	-
рН	standard units	-	-	-	6.0	8.5
Ammonia Nitrogon Total (as NI)	mg/L	8.2	17.6	-	-	-
Ammonia Nitrogen, Total (as N)	lbs/day(1)	821	1,761	-	-	-
Copper, Total Recoverable	μg/L	15	-	20	-	-
Chlorodibromomethane	μg/L	17.2	-	34	-	-
Dichlorobromomethane	μg/L	25.2	-	43	-	-
Nitrate Plus Nitrite (as N)	mg/L	60	104	-	-	-
Notes:						

⁽¹⁾ Based on design dry weather flow of 12 mgd.



⁽²⁾ Abbreviations -mg/L = milligrams per liter.

Order No. R5-2016-0023 also includes the following effluent discharge requirements for discharges to the Sacramento River:

- BOD and TSS: average monthly percent removal shall be no less than 85 percent for each.
- Toxicity: survival of aquatic organisms in 96-hour acute whole effluent toxicity bioassays shall be no less than 70 percent (minimum for any one bioassay) and 90 percent (median for any three consecutive bioassays). The Order also includes a numeric toxicity monitoring trigger for chronic whole effluent toxicity of > 10 TUc (where TUc = 100/NOEC [no observed effect concentration]).
- *Total residual chlorine*: shall not exceed 0.011 mg/L (4-day average) and 0.019 mg/L (1-hour average).
- Total coliform organisms: shall not exceed 23 most probable number (MPN) per 100 milliliter (mL) (7-day median) and 240 MPN/100 mL (more than once in any 30-day period).
- Combined chlorpyrifos and diazinon concentration: The Order specifies that the combined concentration for chlorpyrifos and diazinon shall not exceed 1.0 μ g/L as a weekly or monthly average concentration in the discharged effluent.

Future limitations for effluent discharge to the facility's ponds (Land Discharge Specifications) are summarized in Table 5.2. These effluent limitations were scheduled to take effect on May 30, 2021.

Table 5.2	Future Effluent L	_imitations for	Land Discharge
Table J.Z	I OLUIE LIIIUEIIL L		Land Discharge

Parameter	Units	Average Monthly	Average Weekly	Daily Maximum
BOD₅	mg/L	30	45	-
(5-day @ 20 deg. Celsius)	lbs/day ⁽¹⁾	626	939	-
TSS	mg/L	30	45	-
133	lbs/day ⁽¹⁾	626	938	-
Total Coliform Organisms	MPN/100 mL	-	23(2)	240(3)

Notes:

- (1) Based upon an average monthly flow of 2.5 mgd.
- (2) Based upon a 7-day median concentration.
- (3) Shall not be exceeded more than once in any 30-day period.

5.1.1 Status of NPDES Permit Order

Order No. R5-2016-0023 expired on May 31, 2021 but has been administratively extended by the Regional Water Quality Control Board (RWQCB) as they draft a renewed Order for the WPCP in parallel with the development of this report.

5.2 Previous Projection of Regulatory-Driven Facility Needs at the WPCP

The WPCP Strategic Planning Report¹ included a detailed summary of existing WDRs for the WPCP; a listing of state and federal requirements applicable to the WPCP with analysis of how these requirements may change over time based on historical and ongoing activities; and an analysis of probable future effluent limits. Probable future effluent limitations outlined in the WPCP Strategic Planning Report² are repeated here as Table 5.3 for reference.

² (Carollo Engineers, 2021)



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¹ (Carollo Engineers, 2021)

Table 5.3 Summary of Probable Future Effluent Limitations

Parameter	Unit	Probable Effluent Limit	Averaging Period ⁽¹⁾	Proposed Treatment
BOD ₅ (5-day @ 20°C)	mg/L	10/15/30	Monthly/Weekly/Daily	Tertiary Filtration
TSS	mg/L	10/15/30	Monthly/Weekly/Daily	Tertiary Filtration
рН	standard units	6.0/8.5	Instantaneous Minimum/Maximum	N/A
Ammonia Nitrogen, Total (as N)	mg/L	8.2/17.6(2)	Monthly/Weekly	N/A
Copper, Total Recoverable	μg/L	15/20	Monthly/Daily	Potentially Filtration(3)
Chlorodibromo-methane	μg/L	17.2/34.0	Monthly/Daily	Alternative Disinfection(3)
Dichlorobromo-methane	μg/L	25.2/43.0	Monthly/Daily	Alternative Disinfection(3)
Nitrate Plus Nitrite (as N)	mg/L	10 ⁽⁵⁾	Monthly	Denitrification Upgrades
Bis (Di-2-ethylhexyl)-phthalate (DEHP)	μg/L	1.8/3.6(5)	Monthly/Daily	Potentially Filtration
Lead	μg/L	1.3/2.8(5)	Monthly/Daily	Potentially Filtration
Zinc	μg/L	300 ⁽⁵⁾	Average Annually	Potentially Filtration

Notes:

- (1) Monthly and weekly values are average effluent concentration limitations. Daily value is maximum effluent concentration limitation.
- (2) Ammonia limits may be reduced with implementation of 2013 Criteria.
- (3) Would be required if current limits are reduced during future permit renewals due to mixing zone limitations (or other).
- (4) Current permit limitations are 60/104 mg/L (average monthly/average weekly).
- (5) Assumes no dilution credit assignment, which is currently considered conservative.



The WPCP Strategic Planning Report³ also included a summary of probable regulatory-driven facility needs based on the prediction of near-term and longer-term regulatory drivers and the planning horizon in question at the time of analysis (through 2040). Based on the analysis completed for the WPCP Strategic Planning Report⁴, the following regulatory-driven needs were projected for the WPCP:

- Required improvements for land discharge of treated effluent:
 - If City preferred to continue discharging treated effluent to the ponds, denitrification upgrades would be needed by 2024.
 - It City preferred to continue discharging partially treated effluent to the ponds during facility upset conditions, a project would be needed by 2026 to install a lining over a portion (or all) of the WPCP Southeast and/or Northeast ponds.
- Addition of tertiary treatment facilities at the WPCP (assumed required in 2021 permit, with full implementation by 2031).
- Required improvements for reduction of Di(2-ethylhexyl)phthalate (DEHP), lead, and zinc concentrations in the treated effluent, with implementation by 20315:
 - All possibly reduced with implementation of MLE and tertiary filtration improvements, assuming optimized chemical addition.
- Required improvements for reduction of disinfection byproduct (DBP) concentrations in the treated effluent, with implementation by 20361:
 - Treatment with alternative disinfection facilities.

The WPCP Strategic Planning Report ⁶ included an evaluation of project alternatives for each of these capital requirements, with potential layout options, operational and capital cost estimates, qualitative comparisons based on related project experience, and the presentation of recommendations for City planning and future implementation. The evaluation of project alternatives for the regulatory-driven needs at the WPCP is not recreated herein, but updated facility sizing, project costs, and projected timeline for implementation of the previously selected project alternatives is.

5.3 Revised Schedule and Sizing Criteria

With ongoing participation from the both the State Water Resources Control Board (SWRCB) and the RWQCB in the Sewer Regional Project Advisory Committee (SRPAC) associated with the potential connection of the Paradise sewer to the WPCP, the City has had the opportunity to discuss the projected regulatory needs for the facility with both agencies, obtaining productive feedback related to timelines for implementation of the regulatory-driven facility needs previously identified.

The projections made in the WPCP Strategic Planning Report⁷ for regulatory-driven facility needs are modified herein based on the following discussions:

⁷ (Carollo Engineers, 2021)



³ (Carollo Engineers, 2021)

^{4 (}Carollo Engineers, 2021)

⁵ If existing mixing zone/dilution credit allowances were to become more stringent, with newly identified reasonable potential, or with failure of other non-treatment options evaluated in parallel.

⁶ (Carollo Engineers, 2021)

- Meeting with the City, RWQCB, and Carollo on December 10, 2021:
 - Pond lining will not be required for an emergency bypass pond. The City will be
 protected against non-compliance (during facility upset conditions) if they pursue a
 project to store bypassed effluent into a pond area that can be drained back to the
 influent side of the WPCP. This should occur in the near-term.
 - The permit order currently being drafted by the RWQCB will not require the
 implementation of denitrification upgrades at the WPCP. The City should plan for
 this requirement to be included within the next permit cycle (likely adoption in 2027)
 with implementation required prior to permit expiration (assumed 2032).
- Meeting with the City, RWQCB, SWRCB, Paradise, Carollo, and HDR on December 22, 2021:
 - Tertiary filtration will not be required within the next two permit cycles. The City should plan for this requirement to be included in the following permit cycle (likely adoption in 2032) with a 10-year compliance order for implementation (assumed 2042).
 - Alternate disinfection (if required) will not be included within the next three permit cycles. The City could plan for this requirement to be included in the permit cycle following the one that requires tertiary filtration (likely adoption in 2037) and can also anticipate that the City would be allowed a 10-year compliance order for implementation (assumed 2047).

Regulatory-driven needs at the WPCP are also updated herein based on modified flow and load projections completed as part of this planning effort (Chapter 2). Related facility sizing and project cost adjustments are discussed in the following sections.

5.4 Updated Projection of Regulatory-Driven Facility Needs at the WPCP

5.4.1 Required Improvements for Land Discharge

Adjustments to the recommended facility improvement projects for land discharge originally included in the WPCP Strategic Planning Report⁸ are discussed in the following sections.

5.4.1.1 Emergency Effluent Bypass, Storage, and Return Improvements

If the City decides to continue to use the existing WPCP ponds for emergency storage of treated effluent that does not comply with land-discharge requirements (i.e., bypassed flows during facility upset conditions), then an improvement project of some sort will be needed to protect the City from non-compliance with land-discharge specifications. Project alternatives previously presented for this were all costly due to the assumed need for a pond liner. The RWQCB agreed during a meeting on December 10, 2021 that a pond liner would not actually be required if the City can return flow to the front of the WPCP for treatment within a reasonable time following bypass. A modified alternative project for effluent bypass, storage, and return to the front of the WPCP for treatment is presented in Figure 5.1.

^{8 (}Carollo Engineers, 2021)





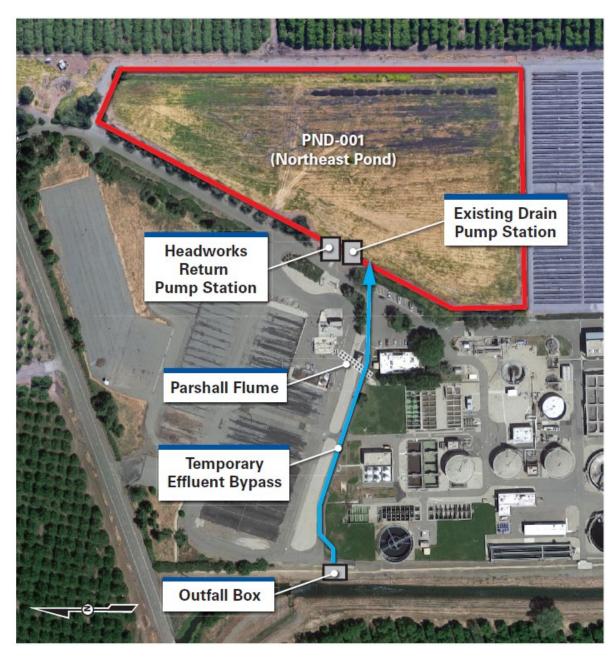


Figure 5.1 Emergency Effluent Bypass, Storage, and Return Improvements



The following improvements are needed for this effluent bypass, storage, and return project:

- Removal of approximately 10 feet of soil across pond area to increase storage capacity to 25 million gallons.
- Installation of diversion piping between the existing outfall box and the Northeast pond.
- Installation of 3 MGD pump station to assist with return pumping of the bypassed effluent to the headworks facility (in conjunction with existing drain pump station to achieve maximum drainage time of 4 days).
- Ancillary stripping and grading efforts.
- Ancillary electrical and instrumentation upgrades.

The estimated costs for the emergency effluent bypass, storage, and return improvements presented herein are \$7.1 million (construction cost) and \$8.5 million (project cost), both in December 2021 dollars. This cost is carried through in Chapter 1 and 7 summary tables with forecasted implementation by 2027.

As facility flow increases throughout the new planning period (2057), the need for additional bypass storage capacity at the WPCP will need to be revisited.

5.4.1.2 Denitrification Upgrades

The secondary treatment process currently nitrifies (removes ammonia) but only includes partial denitrification (conversion of nitrates and nitrites into nitrogen gas for release into the atmosphere). It is anticipated that effluent limitations for nitrate will become more stringent over time with a likely requirement to implement denitrification at the WPCP by 2032. The Pond/Facility Improvement Options TM⁹ included a recommendation to implement a Modified Ludzack-Ettinger (MLE) process within the existing Plant 2 aeration tanks for this purpose.

The MLE process requires an anoxic zone upstream of the aerobic zone to facilitate the biological denitrification reaction. For incorporation of this process into the existing aeration tanks (as depicted in Figure 5.2), the anaerobic zone for each tank will be converted to an anoxic zone by pumping mixed liquor (ML) from the effluent end of the tank to the anoxic zones at the influent end of the tank. This requires the installation of mixed liquor recycle pumps as depicted in Figure 5.2.

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⁹ (Carollo Engineers, 2019)



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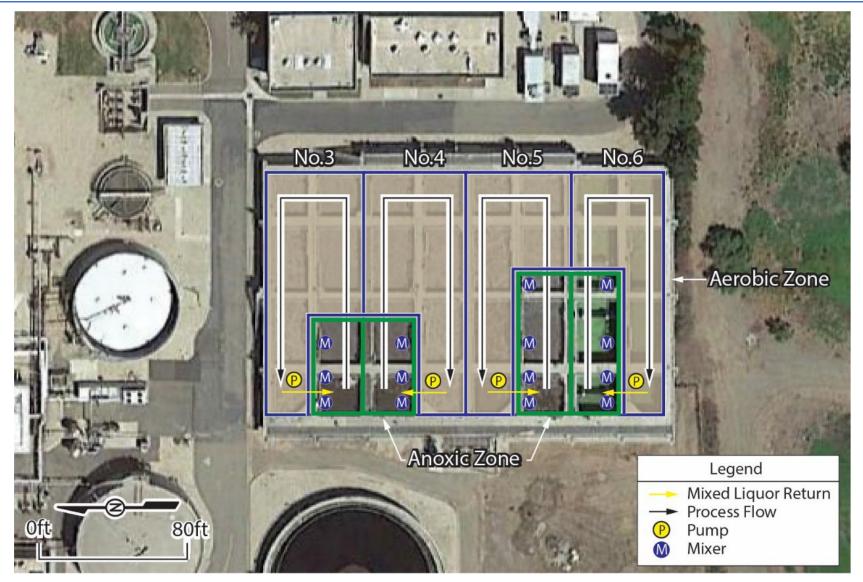


Figure 5.2 Process Conversion from Nitrifying Activated Sludge to Modified Ludzack-Ettinger



The following improvements are needed to upgrade the existing secondary process to MLE:

- Addition of four 7.5 mgd MLE pumps:
 - One pump per tank, with shelf-spare on hand.
- Addition of fourteen 6-horsepower submersible mixers.
- Piping, electrical, instrumentation, and ancillary items.

The estimated project cost for these upgrades was originally presented in the Pond/Facility Improvement Options TM (Carollo Engineers, 2019). The updated project cost for these upgrades is approximately \$4,400,000 (in December 2021 dollars). This cost is carried through the in Chapter 1 and 7 summary tables with forecasted implementation by 2032.

5.4.2 Tertiary Treatment

Tertiary treatment is likely to be required within the next few NPDES permit cycles with reduced BOD/TSS limits (and likely turbidity limit of 2 Nephelometric turbidity units [NTU]). This level of treatment is typically accomplished with filtration, which is a process that removes suspended solids that remain in treated flow after the secondary clarification process.

The following industry leading filtration methods were evaluated as alternatives in the WPCP Strategic Planning Report 10:

- Dual media filtration.
- Cloth disk filters.
- Membrane filtration.

Following a detailed comparison involving project costs, annual O&M costs and labor requirements, relative footprint needs/limitations, and ability to meet future water quality goals (near- and long-term), cloth disk filters were selected as the chosen alternative for planning purposes. Design criteria, facility sizing and layout, and related project costs are updated herein for this filter technology only.

5.4.2.1 Filter Design Flow and Flow Equalization

The requirement to filter the effluent flow could be based on the AAF or PF, depending on the final permit requirements. The more conservative assumption is that the permit will require that the peak facility flow be filtered. In this case, flow equalization could be considered to reduce filter size and capital costs. Providing flow equalization for the PF may be possible, but it is not considered within this evaluation as there are many other key considerations (and because flow equalization may not actually save the City money). Instead, filters are sized to provide filtration for the PF without redundancy, with a normal redundancy requirement included for treatment of the MMF.

5.4.2.2 Filter Loading Rate

Title 22 regulations for recycled water require a maximum loading rate of 6 to 7 gpm/sf, depending on the cloth type used. Higher loading rates (up to 22 gpm/sf) are possible if specific design and monitoring conditions are met.

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¹⁰ (Carollo Engineers, 2021)

The filters for the WPCP will not be required to meet Title 22 standards unless the City wishes to implement a water recycling program in the future. For planning purposes, non-Title 22 conforming loading rates are used herein for facility sizing and related project cost estimates.

5.4.2.3 Cloth Disk Filters

Cloth disk filters are vertical disks located within concrete or steel tanks. For the vendors considered within this study, water flows by gravity from the outside of the disks, through the vertical disk media, to an effluent collection pipe, and into an effluent chamber. Figure 5.3 illustrates the configuration of a basic disk filter.

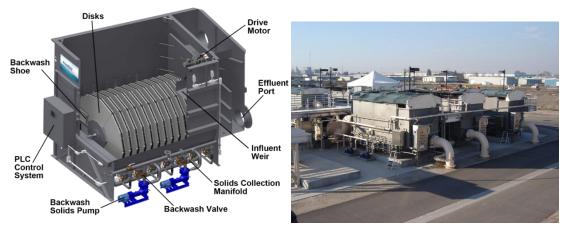


Figure 5.3 Configuration of Basic Disk Filter

Courtesy of Aqua Aerobics (Left) and Disk Filters at Turlock Regional Water Quality Control Facility (Right)

Backwashes are conducted through a suction foot that vacuums each disk using filtrate water. Unlike some other conventional filters, cloth filters can be backwashed while still producing effluent. As such, the downtime for disk filters is minimized. Additionally, since backwashing uses the filtrate directly on the other side of the media, there is no need for a backwash supply tank (reducing overall footprint and cost).

Disk filters were very popular in the early 2000s for their reduced footprint requirement, low head loss, and continuous flow production throughout backwashing. They also have a reduced energy requirement compared to other filter technologies because they operate with gravity flow. However, where dual media filters are robust, cloth media disk filters require a relatively high-quality influent (consistent turbidity less than 5 NTU and TSS lower than 15 mg/L) to produce a high-quality effluent. Flows with turbidity values above 5 NTU can cause downstream compliance issues if upstream coagulant addition is not used to optimize treatment. Coagulant addition must be carefully handled because too much coagulant can easily clog cloth filters. With the proper influent or upstream chemistry, disk filters are a good solution downstream of a nitrified secondary treatment process.

Though not monitored regularly, available data indicates that the WPCP has low effluent turbidity as flow exits the secondary clarifiers. Thus, regular chemical addition may not be required. Upgrading the secondary treatment process to include denitrification is not expected to adversely affect the effluent water quality if sufficient clarification capacity is available. The City should monitor effluent turbidity values after the MLE process is implemented, so that adequate information will be available for filtration system design.



Projected design criteria for disk filters for the WPCP is summarized in Table 5.4.

Table 5.4 Cloth Disk Filter Design Criteria

Design Criteria	Value	Units
Design Average Flow ⁽¹⁾	21.8	mgd
Peak Hour Flow ⁽²⁾	39.6	mgd
Tertiary Lift Station ⁽³⁾	120	hp
Number of Filters (Duty+Standby)	4 (3+1)	No.
Filter Cell Length (each)	25	ft
Filter Cell Width (each)	13	ft
Number of Disks per Unit	15	No.
Filtration Area Provided (N-0)	6,456	sf
Filtration Area Provided (N-1)	4,842	sf
Filter Loading Rate at Peak Flow (N-1)	5.7	gpm/sf
Filter Loading Rate at Design Flow (N-1)	3.1	gpm/sf
Backwash Pumps (Duty+Standby)	4 (3+1)	No.
Backwash Pump Motor Power (each)	20	hp
Backwash Waste	Pumped Direct to Headworks	
Overall Footprint ⁽⁴⁾	60′ x 60′	ft

Notes:

- (1) Projected WPCP maximum month flow through end of planning cycle (2057).
- (2) Projected WPCP peak hour flow through end of planning cycle (2057).
- (3) Assumes three duty 30-hp pumps and one standby 30-hp pump.
- (4) Filter includes pumping room and disk filters.

A potential layout for the disk filters at the WPCP is included as Figure 5.4. Effluent from the secondary clarifiers will be routed through the disk filters and then to the influent side of the existing chlorine contact basins (as shown).



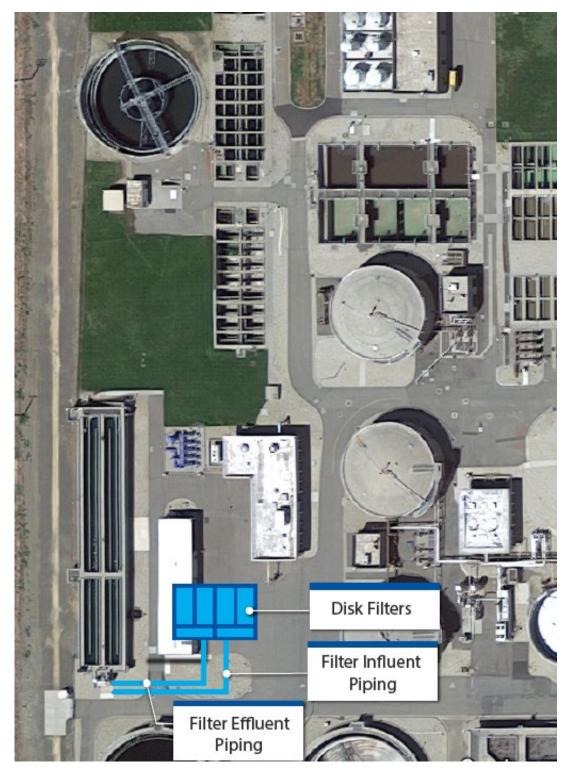


Figure 5.4 Potential Layout for Disk Filter Facilities at WPCP

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The following improvements are needed to implement disk filtration at the WPCP:

- Construction of four disk filter cells with area and disk details summarized in Table 5.3.
- Addition of a tertiary lift station to pump effluent from the secondary clarifiers into the disk filter facility.
 - Three duty pumps at build-out flows, one standby.
- Addition of piping between the tertiary lift station and the influent side of the disk filter facility.
- Addition of piping between the effluent side of the disk filter facility and the influent side of the existing chlorine contact basin.
- Addition of backwash pump station.
- Demolition of existing shop building.
- Ancillary civil, mechanical, electrical, and instrumentation items.

The estimated costs for the cloth disk filters are \$16.8 million (construction cost) and \$22.7 million (project cost), both in December 2021 dollars. This cost is carried through in Chapter 1 and 7 summary tables with forecasted implementation by 2042.

Cost estimate details are included herein as Appendix A.

5.4.3 Requirements for DEHP, Lead, and Zinc Compliance

Recommended strategies for long-term DEHP, lead and zinc compliance were discussed in detail in the WPCP Strategic Planning Report, with study cost estimates included for CIP planning. These discussion and related costs are not repeated herein for simplicity, because the planning period is long and detailed compliance requirements will continue to evolve throughout the planning period, and because this type of work will more likely be covered under the City's operational budget (which is adjusted annually to account for these variable needs at the WPCP). The City should review related needs with each NPDES permit renewal cycle.

5.4.4 Alternative Disinfection

The Chico WPCP currently uses sodium hypochlorite for free chlorine disinfection. The current disinfection regulations include a monthly average total coliform limit of 23 MPN per 100 mL, which the WPCP can consistently meet with current chlorine dosing practices. However, two major regulatory requirements will require a recurring re-examination of the disinfection system:

- Possible reduction of effluent water quality limitation to 2.2 MPN per 100 mL.
- Possible future stringent regulation of DBPs.

While existing DBP effluent limitations (for chlorodibromomethane and dichlorobromomethane) have not been exceeded, an increased level of disinfection (to meet 2.2 MPN per 100 mL) may require higher chlorine doses or contact time (potentially leading to increased DBP formation). Additionally, the WPCP's ability to comply with DBP limits relies heavily on continued allowance of dilution credits by the RWQCB as included in the current permit Order. If dilution credits for these DBPs (or others that may be identified in future reasonable potential analyses) are reduced or eliminated, then an alternate disinfection process may be required.

The following disinfection alternatives were analyzed with respect to their DBP formation potential and their ability to comply with the more stringent total coliform limit projected in the WPCP Strategic Planning Report¹¹:

- Ozone disinfection.
- Ultraviolet disinfection (UV) constructed within existing chlorine contact basin (CCB) channels.
- UV disinfection in a standalone structure.
- Testing and adjustment of existing chlorination practices.

Following a detailed comparison summarized in the WPCP Strategic Planning Report ¹² involving project and operational costs, reliability of treatment process, relative footprint needs/limitations, and ability to meet future water quality goals (near- and long-term), UV disinfection in a standalone structure was selected as the chosen alternative for planning purposes. Design criteria, facility sizing and layout, and related project costs are updated herein for this option only.

5.4.4.1 UV Disinfection

UV disinfection is popular due to its efficiency, lack of toxicity, and lack of DBP formation. UV has a high efficiency for bacterial, virus, and protozoa disinfection, and it does not need to be quenched before discharge.

UV Design Assumptions

Ultraviolet transmittance (UVT) is a key design criteria for UV system design, alongside UV dose and wastewater flow. For the WPCP UV design, a process capacity of the peak hour flow (39.6 mgd) was assumed, along with a UVT of 55 percent (which is a typical low value for wastewater effluent). It is probable that after filtration, the UVT of the filtered flow will increase, potentially requiring a reduced number of UV lamps. For planning purposes, the conservative value of 55 percent UVT is used in this evaluation.

Other projected design criteria for the UV system for the WPCP is summarized in Table 5.5.



¹¹ (Carollo Engineers, 2021)

¹² (Carollo Engineers, 2021)

Table 5.5 UV Facility Design Criteria

Parameter	Value
Peak Hour Flow Rate (mgd)	39.6
Maximum Month Flow Rate (mgd)	21.7
Average Annual Flow Rate (mgd)	17.1
Design UV Transmittance (%)	55.0
Minimum MS2 RED (mJ/cm2), per NWRI 2012	105.0
Total Suspended Solids	
Average Monthly (mg/L)	10
Average Weekly (mg/L)	15
Maximum Daily (mg/L)	20
Redundancy	Meet Design Dose at Maximum Day Flowwith one channel out of service
Permit Limit, shall not exceed:	
Total Coliform, 7-day median	2.2 MPN/100 mL
Total Coliform, more than once in any 30-day period	23 MPN/100 mL
Total Coliform, at any time	240 MPN/100 mL
Abbreviation: ED = reduction equivalent dose	

A potential layout for the new UV facility at the WPCP is included as Figure 5.5. Effluent from the new disk filter facility will be routed to the influent end of the UV facility, through the new UV equipment, and disinfected effluent will then flow to the to the existing outfall box for discharge to the Sacramento River.

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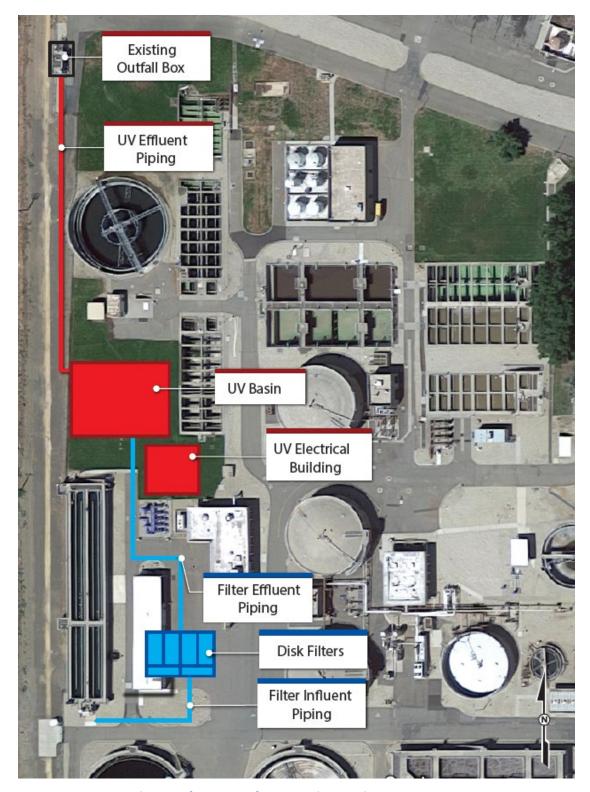


Figure 5.5 Potential Layout for UV Disinfection Facilities at the WPCP

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The following improvements are needed to implement UV disinfection at the WPCP:

- Construction of UV facility.
- Addition of piping between the effluent side of the disk filter facility and the influent side of the UV facility.
- Addition of piping between the effluent side of the UV facility and the existing outfall box.
- Construction of UV Electrical Building.
- Ancillary civil, mechanical, electrical, and instrumentation items.

The estimated costs for the proposed UV facilities is \$30.2 million (construction cost) and \$40.8 million (project cost), both in December 2021 dollars. This cost is carried through in Chapter 1 and 7 summary tables with forecasted implementation by 2047.

Cost estimate details are included herein as Appendix A.

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Chapter 6

CONDITION-DRIVEN FACILITY NEEDS

Condition-driven needs for the WPCP were evaluated as part of detailed visual assessment of facility assets in 2018 by a multi-disciplinary condition assessment team. Methodology and findings of this assessment are summarized in the WPCP Strategic Planning Report¹. This analysis, including extension of the planning period from 2040 to 2057 as described in Chapter 1, was not updated as part of this planning exercise. The condition-driven improvement recommendations from this original assessment are repeated herein for Plant 2 to allow for a complete picture of facility needs through 2040, with simple updates provided for related project costs.

6.1 Summary of Near-Term Condition Driven Needs

Although the Plant 2 facilities have been well maintained, some elements are nearing the end of their useful lives and will require attention. Table 6.1 includes a summary of near-term improvements that would be required to maintain Plant 2 operational reliability.

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¹ (Carollo Engineers, 2021).

Table 6.1 Summary of Near-Term Plant 2 Condition-Driven Needs

Process Area	Required Improvement	Timeline for Implementation ⁽¹⁾	Estimated Project Cost ⁽²⁾
Primary Treatment	Basin rehabilitation ⁽³⁾ Equipment replacement ⁽⁴⁾	< 5 years	\$3,680,000
Aeration	Equipment replacement (5)	< 5 years	\$880,000
Secondary Treatment	Equipment replacement (6)	< 5 years	\$980,000
Disinfection	Equipment replacement(7)	< 5 years	\$840,000
Chemical Building	Equipment replacement(8)	< 5 years	\$190,000
Solids Thickening	Equipment replacement (9)	< 5 years	\$350,000
Solids Digestion	Equipment replacement(10)	< 5 years	\$2,370,000
Solids Dewatering	Equipment replacement(11)	< 5 years	\$540,000
Plant Power Systems	Equipment replacement(12)	< 5 years	\$10,000
Other Plant Systems	Equipment replacement(13)	< 5 years	\$740,000
Total Near-Term Required Capital Investment \$10,580			\$10,580,000

- (1) These recommendations were originally made (as listed) in 2018.
- (2) Costs are escalated from those presented in the WPCP Strategic Planning Report based on December 2021 dollars using an ENR-CCI 20 Cities Index of 12482. Original cost estimating assumptions and limitations are discussed therein.
- (3) Includes concrete repair and rehabilitation, replacement of gates and actuators, all process instrumentation, and spot repair/rehabilitation of process piping.
- (4) Includes replacement of sludge collector motor and chains for Primary Clarifier Nos. 1 and 2, pit pumps for Primary Clarifier Nos. 1 and 2, primary effluent pump motors (pumps No. 2 and 3), replacement of PLC-H, and ancillary items.
- (5) Includes replacement of Blower No. 7, air diffuser and air flow meters in Aeration Basin Nos. 3 and 4, PLC-B, and ancillary items.
- (6) Includes replacement of sludge collectors for Secondary Clarifier Nos. 3 and 4, replacement of MCC-EP-1, MCC-P1, and PLC-R, and ancillary items.
- (7) Includes replacement of flash mixers for Chlorine Contact Basin Nos. 3 and 4, gates and actuators, flow meters, sampling pumps, PLC-C, and ancillary items.
- (8) Includes replacement of CSS Pump Nos. 1 and 2, SBH Recirculation Pump No. 1, SHS Pump No. 1, PLC-C, and ancillary items.
- (9) Includes replacement of Recycle Pressurization Pump Nos. 1-4, air compressors for DAFT Nos. 1 and 2, polymer feed system, MCC-EP5, PLC-B-I/02, and miscellaneous items.
- (10) Includes improvements to Boiler Building No. 2 and replacement of Sludge Heater Nos. 1-3, digester gas flow meters, PLC-D, and ancillary items.
- (11) Includes replacement of Screw Conveyor No. 1, solids grinder, miscellaneous exhaust/supply fans, flow meters, and unit heaters, PLC-B2-I/02, and ancillary items.
- (12) Includes replacement of LCP-PCP-47.
- (13) Includes replacement of Deep Well Pump Nos. 1 and 2, MCC-PC/EP-2, and ancillary items.



6.2 Summary of Long-Term Condition Driven Needs

Table 6.2 includes a summary of long-term condition-driven project costs for Plant 2 facilities.

Table 6.2 Summary of Long-Term Plant 2 Condition Needs

Process Area	Required Improvement	Timeline for Implementation ⁽¹⁾	Estimated Project Cost ⁽²⁾
Headworks	Equipment rehabilitation/replacement ⁽³⁾	2029 - 2039	\$3,180,000
Primary Treatment	Equipment replacement(4)	2025 - 2039	\$4,160,000
Aeration	Equipment replacement (5)	2027 - 2039	\$1,900,000
Secondary Treatment	Equipment replacement (6)	2027 - 2039	\$2,390,000
Disinfection	Equipment replacement(7)	2027 - 2039	\$1,080,000
Chemical Building	Equipment replacement (8)	2029 - 2038	\$510,000
Solids Thickening	Equipment replacement (9)	2027 - 2039	\$1,210,000
Solids Digestion	Equipment replacement(10)	2027 - 2040	\$6,210,000
Solids Dewatering	Equipment replacement(11)	2027 - 2039	\$5,790,000
Plant Power Systems	Equipment replacement(12)	2027 - 2039	\$7,210,000
Other Plant Systems	Equipment replacement(13)	2027 - 2039	\$420,000
Total Long-Term Required Capital Investment \$34,060,000			

Notes:

- (1) These recommendations were originally made (as listed) in 2018.
- (2) Costs are escalated from those presented in the WPCP Strategic Planning Report based on December 2021 dollars using an ENR-CCI 20 Cities Index of 11699. Original cost estimating assumptions and limitations are discussed therein.
- (3) Includes replacement of major mechanical equipment items (shaftless screw conveyor, mechanical bar screens, screenings washer/compactors, vortex grit chamber drives, grit cyclone separators, ferric facility pumps biofilter fans, grit basement exhaust and supply fans, flow meters/transmitters, sump pumps, analyzers, samplers, etc.) (in 2029); and replacement of grit pumps, channel gates, and MCC-P14 (in 2039).
- (4) Includes rehabilitation of Primary Clarifier No. 3 (motor and chains, sludge collector drives, chains, etc), replacement of Primary Effluent Pumps Nos. 1-3 (with new VFDs), and ancillary items (in 2027); replacement of MCC-EP7 and PLC-X (in 2029); miscellaneous items (2030 - 2036); and replacement of Primary Effluent Pump No. 4 and MCC-P13 (in 2039).
- (5) Includes replacement of tank inlet/outlet gates and MCC-P8 (in 2027); DO meters (in 2028); air diffusers and flow meters for Aeration Basin Nos. 5 and 6, exhaust and supply fans for Blower Building No. 2, and PLC-BB (in 2029); air inlet and blow off valves (in 2032); miscellaneous items (2034-2036); and Blower No. 8, and inlet and outlet gates for Aeration Basin Nos. 5 and 6 (in 2039)
- (6) Includes replacement of sludge collector drive for Secondary Clarifier No. 3, RAS Pump Nos. 4-7, MCC-P11A, and SWGP-1 (in 2027); MCC-P11 and PLC-RR (in 2029); miscellaneous flow meters and heat pumps (in 2036); and the sludge collector drive for Secondary Clarifier No. 5, RAS Pump No. 9, and Secondary Scum Pump No. 5 (in 2039).
- (7) Includes replacement of sluice gates (in 2027), miscellaneous flow meters, analyzers, and sample pumps (2028-2035), and the hydraulic power unit and sluice gates (in 2039).
- (8) Includes replacement of MCC-P12, SBS recirculation Pump No. 2, and miscellaneous heat pumps, unit heaters, exhaust fans, and instrumentation (in 2029); and replacement of SBS Pump Nos. 1 and 2 and SHS Pumps 2-4 (in 2038).
- (9) Includes replacement of DAFT No. 2 collector drive, TWAS Pump Nos. 1-4, Thickened Sludge Grinder Nos. 1 and 2, instrumentation for DAFT Nos. 1 and 2, and MCC-P13 (in 2029); DAFT No. 1 collector drive (in 2032); and Thickened Sludge Pump Nos. 1 and 2 (in 2039).
- (10) Includes replacement of Digester No. 3, most digester transfer/recirculation pumps and Sludge Mixing Pump Nos. 1-3 (in 2027); MCC-P15, MCC-P9, PLC-X, and miscellaneous items (in 2029); miscellaneous flow meters, inlet valves (2030-2036); and Digester Transfer Pump No. 2, Sludge Mixing Pump No. 4, Digester Recirculation Pump No. 3, and Hot Water Loop Pump Nos. 1-3 (in 2039).
- (11) Includes replacement of Centrifuge No. 1 and miscellaneous control and starter panels (in 2027); Screw Conveyor Nos. 2 and 3, Polymer Mixing Pump Nos. 1-2, Polymer Blending Pump Nos. 1-2, and MCC-P10 (in 2029); miscellaneous items (2030-2037); and Centrifuge No. 2, Centrifuge Feed Pump Nos. 1-2, and ancillary items (in 2039).
- (12) Includes replacement of solar power system, Switchboard-P2, Transformer No. 1, and Standby Generator No. 2 Control Panel (in 2027); Substation No. 1, Panel-P9A, and miscellaneous electrical items (in 2029); the cogeneration unit (in 2034); Standby Generator No. 2 and the synchronizer panel for Generator Nos. 1-2 (in 2037); and the cogeneration hot water loop and control panels for Standby Generator No. 3 and 4 (in 2039).
- (13) Includes replacement of 3W Pump Nos. 1-4 and main hot water pumps (in 2027); miscellaneous items (2029-2032), and 3W Pump No. 5 (in 2039).

6.3 Options for Reduced or Deferred Capital Expenditure

The WPCP Strategic Planning Report² identified four projects as unnecessary following related discussions with the City staff after completion of the on-site condition assessment:

- Rehabilitation/replacement of gravity thickener and thickened sludge pump equipment:
 - These facilities were not in use at the time of the analysis, following completion of facility upgrades that have allowed WPCP staff to thicken sludge in the primary clarifiers.
- Rehabilitation/replacement of ferric chloride facilities:
 - These facilities had not been used since their construction, and plant staff indicated that they did not plan to use them in the foreseeable future.
- Rehabilitation/replacement of Aeration Blowers No. 7 and 8:
 - The City had completed related improvements during the final efforts associated with the WPCP Strategic Planning Report³.
- Rehabilitation/replacement of the photovoltaic (solar) system:
 - The City had requested that costs associated with replacement/repair of these facilities be excluded from the analysis at the time of its completion.

The costs for these project components were presented in the WPCP Strategic Planning Report 4 (for reference only) but were not factored into the Condition-Driven Project Packages developed as part of that effort (discussed in Section 6.4). The need for these improvements should be reevaluated as facility uses continue to change.

6.4 Development of Condition-Driven Project Packages

The final analysis presented in the WPCP Strategic Planning Report⁵ included a list of condition-driven project packages based on the coupling of the near- and long-term condition-driven needs presented in Tables 6.1 and 6.2 for ease of delivery. This analysis is not updated herein for reasons of simplicity. The timing and scope of condition-driven project packages will need to be reevaluated as the City implements these improvements over time.

6.5 Summary of Condition-Driven Project Costs

The total estimated project cost for all near- and long term 2 condition-driven needs identified for Plant 2 is \$44.6 M (in December 2021 dollars). This estimated project cost is escalated to December 2026 dollars (\$55.6 M) for the connection payment calculation option presented in Chapter 1 with use of a projected average annual interest rate of 4.5 percent



² (Carollo Engineers, 2021).

³ (Carollo Engineers, 2021).

^{4 (}Carollo Engineers, 2021).

⁵ (Carollo Engineers, 2021).

Chapter 7

FACILITY IMPROVEMENT RECOMMENDATIONS

Facility planning recommendations are summarized herein based on identified needs at the WPCP as related to projected capacity limitations, changing regulatory drivers, and observed condition deficiencies.

7.1 Summary of Capacity-Driven Projects

Several facility improvements are needed to increase the hydraulic and treatment capacity of the WPCP through the end of the planning period (2057).

The secondary treatment facilities will require significant improvement extending into the existing pond area south of the main WPCP treatment works area. Three options for expansion were evaluated (Table 7.1), with Option 3 costs carried through for planning purposes.

Secondary Treatment Facility Expansion Options Table 7.1

Option 1	Option 2	Option 3
2 New Aeration Tanks (6 total)	3 New Aeration Tanks (7 total)	2 New Aeration Tanks (6 total)
4 New Secondary Clarifiers (7 total) ⁽¹⁾	2 New Secondary Clarifiers (5 total) ⁽²⁾	3 New Secondary Clarifiers (7 total) ⁽³⁾
Blower Upgrades	Blower Upgrades	Blower Upgrades
RAS/WAS Pumping Upgrades	RAS/WAS Pumping Upgrades	RAS/WAS Pumping Upgrades
Ancillary Upgrades	Ancillary Upgrades	Ancillary Upgrades
Notes:	·	

- (1) One (1) 100-ft diameter clarifier (near-term) and three (3) 100-ft diameter secondary clarifiers longer-term.
- (2) One (1) 100-ft diameter clarifier (near-term) and one (1) 100-ft diameter secondary clarifier longer-term.
- One (1) 100-ft diameter clarifier (near-term) and two (2) 125-foot diameter secondary clarifiers longer-term.

Table 7.2 includes a summary of recommended projects based on anticipated capacity-driven facility needs through 2057, along with predicted timelines for implementation of each and planning level construction and project cost estimates (presented in December 2021 dollars).

Table 7.2 Summary of Capacity-Driven Facility Needs

Projected Timeline for Implementation	Project Description	Estimated Construction Cost ⁽¹⁾⁽²⁾	Estimated Project Cost ⁽¹⁾⁽³⁾
2028	Secondary Clarifier #6 ⁽⁴⁾ (fourth clarifier in Plant 2)	\$8,000,000	\$10,700,000
2032	Supplemental Carbon Project	\$300,000	\$400,000
2033	Chlorine Contact Basin	\$4,100,000	\$5,100,000
2033	Chemical Storage and Feed Facility Improvements (SHS and SBS)	\$1,300,000	\$1,600,000
2036	Southern Pond Improvements for Secondary Expansion	\$700,000	\$900,000
2036	Secondary Clarifier #7 ⁽⁵⁾ (fifth clarifier in Plant 2)	\$10,000,000	\$13,400,000
2036	RAS/WAS Pump Station and Electrical Building ⁽⁶⁾	\$1,300,000	\$1,600,000
2038	Parallel PE Force Main Improvements	\$800,000	\$1,100,000
2039	Secondary Clarifier #8 ⁽⁵⁾ (sixth clarifier in Plant 2)	\$10,000,000	\$13,400,000
2044	Aeration Tank #5 ⁽⁷⁾	\$11,700,000	\$15,600,000
2044	Blower and Electrical Building ⁽⁶⁾	\$5,000,000	\$6,300,000
2044	Standby Generator	\$1,200,000	\$1,500,000
2045	Primary Clarifier #4	\$3,700,000	\$5,000,000
2053	Aeration Tank #6 ⁽⁷⁾	\$11,700,000	\$15,600,000
2054	Primary Effluent Lift Station Improvements	\$1,700,000	\$2,100,000
2054	Bar Screen #3	\$500,000	\$600,000
	Total Required Capital Investment	\$72,000,000	\$94,900,000 ⁽⁸⁾
Notes:			

- (1) Costs are in December 2021 dollars based on ENR-CCI CCI of 12482.
- (2) Includes estimating contingency of 40% applied to total direct cost, general conditions and contractor overhead and profit contingencies at 18% of total direct cost (each), and local sales tax of 7.25% applied to half of the total direct cost.
- (3) Includes project cost factor of 35% for legal, administration, permitting, design, and engineering services during construction.
- (4) 100-foot diameter secondary clarifier.
- (5) 125-foot diameter secondary clarifier.
- (6) Based on Secondary Treatment Expansion Option 3 layout (Chapter 4).
- (7) With denitrification improvements (MLE).
- (8) Escalated to December 2026 dollars (\$118.3M) in Chapter 4 with use of a projected annual average interest rate of 4.5%.

7.1.1 Limitations of Capacity Analysis

The capacity of the existing WPCP facilities was evaluated against expected flows and loads projected over the planning horizon (through 2057), as calculated with an expected growth rate of 1.7 percent per year (Chapter 2). This growth rate value is consistent with the 2030 General Plan, but may prove inaccurate long-term due to the following:



- With a long planning period it is less likely that an assumed population growth rate of 1.7 percent will accurately represent the final population at build-out. The projection results in a population that is more than double the existing population in 35 years.
- Population and wastewater data collected in the baseline year of 2020 may be less representative than other years due to the impacts of the COVID-19 pandemic.

Additionally, there is some uncertainty with how the Paradise connection will impact projected flows and loads. Since a wastewater characterization of Paradise flows was unavailable, it was assumed that Paradise would produce flows with similar quality as Chico.

It is recommended that the City revisit the findings of this evaluation within the next 3 to 5 years to best prepare for future facility needs related to hydraulic and process capacity.

Last, the capacity analysis includes facility needs identified based on identified hydraulic and/or treatment limitations, without consideration of cost for facilities that may age out during the 35-year planning period. Additional cost may be incurred long-term for facilities deemed herein as having adequate capacity based on asset condition not addressed herein.

7.2 Summary of Regulatory-Driven Projects

Regulatory drivers for future facility upgrade needs were evaluated in detail in the WPCP Strategic Planning Report¹ with updated timing, facility sizing, and project costs presented herein (Chapter 5).

Table 7.3 includes a summary of recommended projects based on reasonably anticipated regulatory-driven facility needs through 2057, along with predicted timelines for implementation of each, and planning level project cost estimates (presented in December 2021 dollars).

	Table 7.3	Summary	v of Regulator∖	v-Driven Facilit [,]	v Needs
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Projected Timeline for Implementation	Project Description	Estimated Construction Cost ⁽¹⁾²⁾	Estimated Project Cost ⁽¹⁾⁽³⁾
2027	Emergency Effluent Bypass, Storage, and Return Improvements (NE Pond) ⁽⁴⁾	\$7,050,000	\$8,460,000
2032	Modified MLE process upgrades ⁽⁵⁾	\$3,620,000	\$4,350,000
2042	Tertiary Filtration Upgrades ⁽⁶⁾	\$16,830,000	\$22,710,000
2047	Alternate Disinfection ⁽⁷⁾	\$30,200,000	\$40,800,000
	Total Required Capital Investment	\$57,700,000	\$76,320,000

Notes:

- (1) Costs are in December 2021 dollars based on ENR-CCI CCI of 12482.
- (2) Includes estimating contingency of 40% applied to total direct cost, general conditions and contractor overhead and profit contingencies at 18% of total direct cost (each), and local sales tax of 7.25% applied to half of the total direct cost.
- (3) Includes project cost factor of 35% for legal, administration, permitting, design, and engineering services during construction.
- (4) Includes pipeline between outfall box and Northeast Pond, a pump station for pump back to Headworks, and civil improvements to deepen the pond for 25 MG of storage.
- (5) In-basin improvements to existing aeration tanks in Plant 2.
- (6) Assumes cloth disk filtration, sized for peak flow at 39.6 mgd.
- (7) Assume UV disinfection, sized for peak flow of 39.6 mgd.

¹ (Carollo Engineers, 2021)



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7.2.1 Limitations of Regulatory Analysis

Facility upgrade recommendations made herein are based on ongoing (and recent) coordination with the RWQCB and SWRCB, experience at similar facilities, and site-specific effluent and receiving water quality observations.

The regulatory climate is highly volatile, especially in California. This creates difficulty in fully predicting facility needs based on impending regulatory requirements over a long-term (35 year) planning horizon. For this reason, it is recommended that the City revisit the findings of this evaluation within the next 5 to 10 years to best prepare for future facility needs.

7.3 Summary of Condition-Driven Projects

Condition-driven needs at the WPCP were identified through an on-site, multi-discipline visual condition assessment of all facilities, including detailed mechanical, structural, and electrical/instrumentation and control inspections of each asset. The methods and findings of this effort are summarized in detail in the WPCP Strategic Planning Report ².

Chapter 6 includes a high-level summary of condition-driven projects that resulted from this effort, escalated to December 2021 dollars. The originally projected project timing for the identified near-term and long-term condition-driven projects is summarized in Tables 7.4 and 7.5, respectively. Project costs have been escalated in both tables based on simple escalation between February 2021 and December 2021.

Near-and long term condition-driven project costs are further escalated to December 2026 dollars (\$55.6 M) with use of a projected average annual interest rate of 4.5 percent.

² (Carollo Engineers, 2021)





Table 7.4 Summary of Near-Term Condition-Driven Facility Needs

•		•	
Process Area	Required Improvement	Timeline for Implementation ⁽¹⁾	Estimated Project Cost ⁽²⁾
Primary Treatment	Basin rehabilitation ⁽³⁾ Equipment replacement ⁽⁴⁾	< 5 years	\$3,680,000
Aeration	Equipment replacement (5)	< 5 years	\$880,000
Secondary Treatment	Equipment replacement (6)	< 5 years	\$980,000
Disinfection	Equipment replacement(7)	< 5 years	\$840,000
Chemical Building	Equipment replacement(8)	< 5 years	\$190,000
Solids Thickening	Equipment replacement (9)	< 5 years	\$350,000
Solids Digestion	Equipment replacement(10)	< 5 years	\$2,370,000
Solids Dewatering	Equipment replacement(11)	< 5 years	\$540,000
Plant Power Systems	Equipment replacement(12)	< 5 years	\$10,000
Other Plant Systems	Equipment replacement(13)	< 5 years	\$740,000
Total Near-Term Required Capital Investment \$10,580,000			\$10,580,000

- (1) These recommendations were originally made (as listed) in 2018.
- (2) Costs are escalated from those presented in the WPCP Strategic Planning Report based on December 2021 dollars using an ENR-CCI 20 Cities Index of 12482. Original cost estimating assumptions and limitations are discussed therein.
- (3) Includes concrete repair and rehabilitation, replacement of gates and actuators, all process instrumentation, and spot repair/rehabilitation of process piping.
- (4) Includes replacement of sludge collector motor and chains for Primary Clarifier Nos. 1 and 2, pit pumps for Primary Clarifier Nos. 1 and 2, primary effluent pump motors (pumps No. 2 and 3), replacement of PLC-H, and ancillary items.
- (5) Includes replacement of Blower No. 7, air diffuser and air flow meters in Aeration Basin Nos. 3 and 4, PLC-B, and ancillary items.
- (6) Includes replacement of sludge collectors for Secondary Clarifier Nos. 3 and 4, replacement of MCC-EP-1, MCC-P1, and PLC-R, and ancillary items.
- (7) Includes replacement of flash mixers for Chlorine Contact Basin Nos. 3 and 4, gates and actuators, flow meters, sampling pumps, PLC-C, and ancillary items.
- (8) Includes replacement of CSS Pump Nos. 1 and 2, SBH Recirculation Pump No. 1, SHS Pump No. 1, PLC-C, and ancillary items.
- (9) Includes replacement of Recycle Pressurization Pump Nos. 1-4, air compressors for DAFT Nos. 1 and 2, polymer feed system, MCC-EP5, PLC-B-I/02, and miscellaneous items.
- (10) Includes improvements to Boiler Building No. 2 and replacement of Sludge Heater Nos. 1-3, digester gas flow meters, PLC-D, and ancillary items.
- (11) Includes replacement of Screw Conveyor No. 1, solids grinder, miscellaneous exhaust/supply fans, flow meters, and unit heaters, PLC-B2-I/02, and ancillary items.
- (12) Includes replacement of LCP-PCP-47.
- (13) Includes replacement of Deep Well Pump Nos. 1 and 2, MCC-PC/EP-2, and ancillary items.

Table 7.5 Summary of Long-Term Condition-Driven Facility Needs

Process Area	Required Improvement	Timeline for Implementation ⁽¹⁾	Estimated Project Cost ⁽²⁾
Headworks	Equipment rehabilitation/replacement ⁽³⁾	2029 - 2039	\$3,180,000
Primary Treatment	Equipment replacement (4)	2025 - 2039	\$4,160,000
Aeration	Equipment replacement (5)	2027 - 2039	\$1,900,000
Secondary Treatment	Equipment replacement (6)	2027 - 2039	\$2,390,000
Disinfection	Equipment replacement(7)	2027 - 2039	\$1,080,000
Chemical Building	Equipment replacement (8)	2029 - 2038	\$510,000
Solids Thickening	Equipment replacement (9)	2027 - 2039	\$1,210,000
Solids Digestion	Equipment replacement(10)	2027 - 2040	\$6,210,000
Solids Dewatering	Equipment replacement(11)	2027 - 2039	\$5,790,000
Plant Power Systems	Equipment replacement(12)	2027 - 2039	\$7,210,000
Other Plant Systems	Equipment replacement(13)	2027 - 2039	\$420,000
Total Long-Term Required Capital Investment			\$34,060,000

- (1) These recommendations were originally made (as listed) in 2018.
- (2) Costs are escalated from those presented in the WPCP Strategic Planning Report based on December 2021 dollars using an ENR-CCI 20 Cities Index of 12482. Original cost estimating assumptions and limitations are discussed therein.
- (3) Includes replacement of major mechanical equipment items (shaftless screw conveyor, mechanical bar screens, screenings washer/compactors, vortex grit chamber drives, grit cyclone separators, ferric facility pumps biofilter fans, grit basement exhaust and supply fans, flow meters/transmitters, sump pumps, analyzers, samplers, etc.) (in 2029); and replacement of grit pumps, channel gates, and MCC-P14 (in 2039).
- (4) Includes rehabilitation of Primary Clarifier No. 3 (motor and chains, sludge collector drives, chains, etc), replacement of Primary Effluent Pumps Nos. 1-3 (with new VFDs), and ancillary items (in 2027); replacement of MCC-EP7 and PLC-X (in 2029); miscellaneous items (2030 2036); and replacement of Primary Effluent Pump No. 4 and MCC-P13 (in 2039).
- (5) Includes replacement of tank inlet/outlet gates and MCC-P8 (in 2027); DO meters (in 2028); air diffusers and flow meters for Aeration Basin Nos. 5 and 6, exhaust and supply fans for Blower Building No. 2, and PLC-BB (in 2029); air inlet and blow off valves (in 2032); miscellaneous items (2034-2036); and Blower No. 8, and inlet and outlet gates for Aeration Basin Nos. 5 and 6 (in 2039).
- (6) Includes replacement of sludge collector drive for Secondary Clarifier No. 3, RAS Pump Nos. 4-7, MCC-P11A, and SWGP-1 (in 2027); MCC-P11 and PLC-RR (in 2029); miscellaneous flow meters and heat pumps (in 2036); and the sludge collector drive for Secondary Clarifier No. 5, RAS Pump No. 9, and Secondary Scum Pump No. 5 (in 2039).
- (7) Includes replacement of sluice gates (in 2027), miscellaneous flow meters, analyzers, and sample pumps (2028-2035), and the hydraulic power unit and sluice gates (in 2039).
- (8) Includes replacement of MCC-P12, SBS recirculation Pump No. 2, and miscellaneous heat pumps, unit heaters, exhaust fans, and instrumentation (in 2029); and replacement of SBS Pump Nos. 1 and 2 and SHS Pumps 2-4 (in 2038).
- (9) Includes replacement of DAFT No. 2 collector drive, TWAS Pump Nos. 1-4, Thickened Sludge Grinder Nos. 1 and 2, instrumentation for DAFT Nos. 1 and 2, and MCC-P13 (in 2029); DAFT No. 1 collector drive (in 2032); and Thickened Sludge Pump Nos. 1 and 2 (in 2039).
- (10) Includes replacement of Digester No. 3, most digester transfer/recirculation pumps and Sludge Mixing Pump Nos. 1-3 (in 2027); MCC-P15, MCC-P9, PLC-X, and miscellaneous items (in 2029); miscellaneous flow meters, inlet valves (2030-2036); and Digester Transfer Pump No. 2, Sludge Mixing Pump No. 4, Digester Recirculation Pump No. 3, and Hot Water Loop Pump Nos. 1-3 (in 2039).
- (11) Includes replacement of Centrifuge No. 1 and miscellaneous control and starter panels (in 2027); Screw Conveyor Nos. 2 and 3, Polymer Mixing Pump Nos. 1-2, Polymer Blending Pump Nos. 1-2, and MCC-P10 (in 2029); miscellaneous items (2030-2037); and Centrifuge No. 2, Centrifuge Feed Pump Nos. 1-2, and ancillary items (in 2039).
- (12) Includes replacement of solar power system, Switchboard-P2, Transformer No. 1, and Standby Generator No. 2 Control Panel (in 2027); Substation No. 1, Panel-P9A, and miscellaneous electrical items (in 2029); the cogeneration unit (in 2034); Standby Generator No. 2 and the synchronizer panel for Generator Nos. 1-2 (in 2037); and the cogeneration hot water loop and control panels for Standby Generator No. 3 and 4 (in 2039).
- (13) Includes replacement of 3W Pump Nos. 1-4 and main hot water pumps (in 2027); miscellaneous items (2029-2032), and 3W Pump No. 5 (in 2039).



7.3.1 Limitations of Condition Analysis

The assessment of condition-driven facility needs is based on observations from 2018, with initial project scheduled for implementation starting in 2021, though 2040 (the previous planning period). Project costs were escalated for this planning effort, but projected timelines were not adjusted. Additionally, the City will encounter additional rehabilitation and/or replacement needs within the new planning period (that extends through 2057) that have not been identified herein. It is recommended that the City conduct an updated analysis to determine long-term facility needs as near-term condition-driven projects are completed.

7.4 Capital Improvement Project Summary

Capital need projections are included herein to supplement the City's sewer rate study, providing sustainable budgets for current and projected WPCP needs through updated sewer fees. All recommended projects are summarized in Table 7.6.

Table 7.6 Summary of Recommended Project and Project Cost

Projected Timeline for Implementation	Capacity Improvements	Project Driver	Estimated Project Cost ⁽¹⁾
2021	Aeration and Primary Treatment Upgrades Recommended by 2023 ⁽²⁾	Condition	\$1,870,000
2022	Disinfection, Chemical Building, Solids Thickening and Dewatering, Plant Power Systems, and Other Plant Systems Upgrades Recommended by 2023 ⁽²⁾	Condition	\$2,670,000
2023	Solids Digestion Upgrades Recommended by 2023 ⁽²⁾	Condition	\$2,370,000
2025	Primary Treatment Upgrades Recommended by 2025(2)	Condition	\$3,680,000
2025	Recycled Water Feasibility Study	Strategic	\$530,000
2027	Emergency Effluent Bypass, Storage, and Return Improvements	Regulatory	\$8,460,000
2027	Condition Driven Upgrades Recommended in 2027 ⁽²⁾	Condition	\$7,640,000
2028	Secondary Clarifier #6 ⁽³⁾ (fourth clarifier in Plant 2)	Capacity	\$10,700,000
2028	Condition Driven Upgrades Recommended in 2028 ⁽²⁾	Condition	\$3,240,000
2029	Condition Driven Upgrades Recommended in 2029 ⁽²⁾	Condition	\$5,390,000
2032	Modified MLE process upgrades	Regulatory	\$4,350,000
2033	Condition Driven Upgrades Recommended in 2033 ⁽²⁾	Condition	\$3,520,000
2032	Supplemental Carbon Project	Capacity	\$400 , 000
2033	Chlorine Contact Basin	Capacity	\$5,100,000
2033	Chemical Storage and Feed Facility Improvements (SHS and SBS)	Capacity	\$1,600,000
2036	Southern Pond Improvements for Secondary Expansion	Capacity	\$900,000
2036	Secondary Clarifier #7 ⁽⁴⁾ (fifth clarifier in Plant 2)	Capacity	\$13,400,000
2036	RAS/WAS Pump Station and Electrical Building ⁽⁵⁾	Capacity	\$1,600,000
2038	Parallel Primary Effluent Force Main Improvements	Capacity	\$1,100,000
2039	Secondary Clarifier #8 ⁽⁴⁾ (sixth clarifier in Plant 2)	Capacity	\$13,400,000



Projected Timeline for Implementation	Capacity Improvements	Project Driver	Estimated Project Cost ⁽¹⁾
2039	Condition Driven Upgrades Recommended in 2039(2)	Condition	\$10,460,000
2040	Anaerobic Digester 3 ⁽²⁾	Condition	\$3,800,000
2042	Tertiary filtration ⁽⁶⁾	Regulatory	\$22,710,000
2044	Aeration Tank #5 ⁽⁷⁾	Capacity	\$15,600,000
2044	Blower and Electrical Building ⁽⁵⁾	Capacity	\$6,300,000
2044	Standby Generator	Capacity	\$1,500,000
2045	Primary Clarifier #4	Capacity	\$5,000,000
2047	Alternate Disinfection(6)	Regulatory	\$40,800,000
2053	Aeration Tank #6 ⁽⁷⁾	Capacity	\$15,600,000
2054	Primary Effluent Lift Station Improvements	Capacity	\$2,100,000
2054	Bar Screen #3	Capacity	\$600,000
	Total Required Capital Investment		\$216,360,000

- (1) Costs are in December 2021 dollars based on ENR-CCI CCI of 12482.
- (2) Refer to Chapter 6 for condition-driven project specific details.
- (3) 100-foot diameter secondary clarifier.
- (4) 125-foot diameter secondary clarifier.
- (5) Based on Secondary Treatment Expansion Option 3 layout (Chapter 4).
- (6) Sized for peak flow of 39.6 mgd.
- (7) With denitrification improvements (MLE).

Figures 7.1 and 7.2 depict the capital investment needs per category (condition, capacity, and regulatory-driven facility needs) and total projected annual spending needs over the planning horizon (through 2057), respectively.



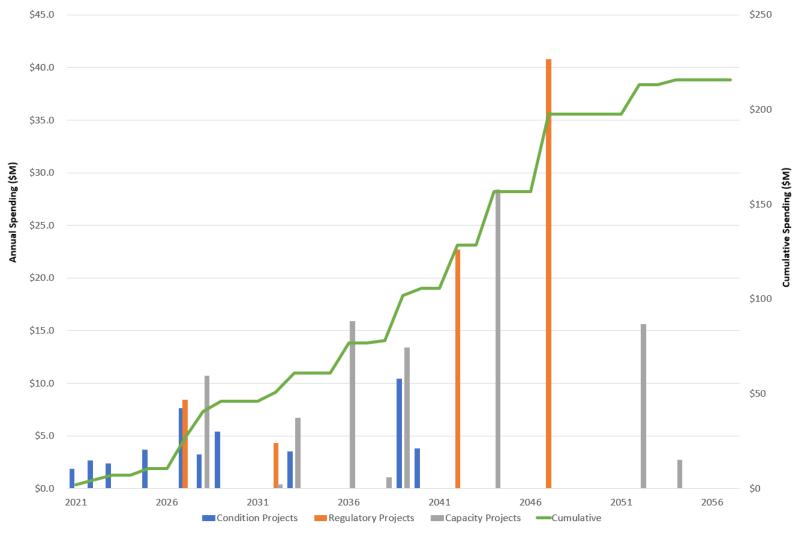


Figure 7.1 Projected Capital Investment by Spending Category



REGIONALIZATION PLANNING REPORT FOR THE PARADISE SEWER PROJECT | CITY OF CHICO \$250

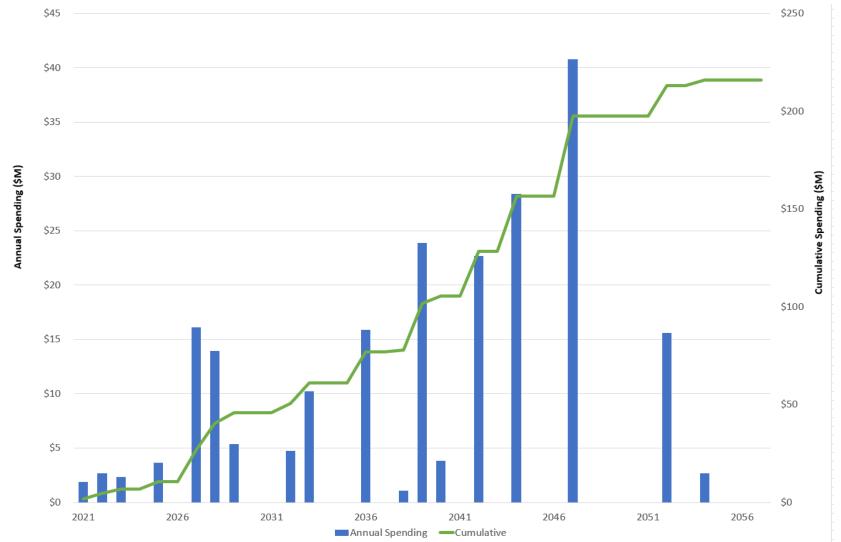


Figure 7.2 Total Annual Capital Spending through Planning Horizon

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Appendix A COST ESTIMATES

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BASIS OF COST ESTIMATES

Construction costs included in this report were estimated using unit costs developed from previous construction contracts, estimating guides, unit prices, and construction costs of similar facilities and process configuration at other locations. Using these sources, adjusted capital costs were developed.

Construction costs have historically escalated with time. This trend is expected to continue in the future. To record these trends in rising costs, several indices have been established for various fields of construction. The most commonly used standard barometer of construction cost changes is the Engineering News Report's Construction Cost Index (ENR-CCI). Capital costs for the alternative analysis are based on the December 2021 20-Cities ENR-CCI of 12482, and the R.S. Means Location Factor for Redding, CA, of 1.185 (an index which represents the relative geographic difference in materials pricing and cost of labor between individual cities as compared to a standard factor). Redding currently represents the closest and most appropriate location factor for estimating construction costs in Chico.

Costs within this section were developed following the AACE International Recommended Practice No. 18R-97 for a Class 5 estimate level. According to AACE International, a "Class 5 Estimate" is defined as an estimate used for screening or feasibility studies during 0 to 2 percent project completion with an expected accuracy of +50 percent to -30 percent in relation to the actual completed project cost.

Table 1 includes a summary of cost estimating factors and contingencies used in the preparation of each cost estimate.

Table A.1 Cost Estimating Factors and Contingencies

ltem	Value
Estimating Contingency	40%
Contractor Overhead and Profit	18%
General Conditions	18%
Sales Tax	7.250%
Project Cost Factor	35%
ENR-CCI ⁽¹⁾	12482
Location Factor ⁽²⁾	1.185
Notes: (1) December 2021 ENR-CCI 20Cities. (2) Location Factor for Redding, CA.	

CAPACITY-DRIVEN PROJECT COST ESTIMATES

Table A.2 Headworks Bar Screen Project Cost Estimate

Description	Qty	Unit	Unit Cost	Total
Equipment ⁽¹⁾	1	LS	\$225,000	\$225,000
Installation	25	%	\$56,250	\$56,000
EI&C	20	%	\$45,000	\$45,000
Total Direct Costs				\$326,000
Contingency		40%		\$49,000
Subtotal				\$375,000
Contractor Overhead & Profit		18%		\$68,000
General Conditions		18%		\$68,000
Sales Tax on 50%		7.25%		\$14,000
Total Construction Cost				\$500,000
Project Cost Factor		35%		\$79,000
Total Project Cost ⁽²⁾				\$600,000

Notes:

Table A.3 Primary Clarifier Project Cost Estimate

Description	Qty	Unit	Unit Cost	Total
Primary Clarifier ⁽¹⁾	38,000	ft³	\$38	\$1,459,000
Site Work	1	LS	\$95,000	\$95,000
Valving/Mechanical	1	LS	\$58,000	\$58,000
Yard Piping	1	LS	\$117,000	\$117,000
EI&C	1	LS	\$168,000	\$168,000
Total Direct Costs				\$1,897,000
Contingency		40%		\$759,000
Subtotal				\$2,656,000
Contractor Overhead & Profit		18%		\$478,000
General Conditions		18%		\$478 , 000
Sales Tax on 50%		7.25%		\$96,000
Total Construction Cost				\$3,700,000
Project Cost Factor		35%		\$1,298,000
Total Project Cost ⁽²⁾				\$5,000,000

Notes



⁽¹⁾ Fine screen with 18 MGD capacity, matching existing screens.

⁽²⁾ Costs are in December 2021 dollars based on ENR-CCI CCI of 12482.

⁽¹⁾ Estimated from cost curve from construction bid tabs for primary clarifiers.

⁽²⁾ Costs are in December 2021 dollars based on ENR-CCI CCI of 12482.

Table A.4 Aeration Tank Project Cost Estimate

Description	Qty	Unit	Unit Cost	Total
Aeration Tank ⁽¹⁾	176,600	ft³	\$24	\$4,238,000
Site Work	1	LS	\$275,000	\$275,000
Valving/Mechanical	1	LS	\$170,000	\$170,000
Yard Piping	1	LS	\$424,000	\$424,000
EI&C	1	LS	\$572,000	\$572,000
Total Direct Costs				\$5,509,000
Contingency		40%		\$2,204,000
Subtotal				<i>\$7,713,000</i>
Contractor Overhead & Profit		18%		\$1,388,000
General Conditions		18%		\$1,388,000
Sales Tax on 50%		7.25%		\$280,000
Total Construction Cost				\$10,800,000
Project Cost Factor		35%		\$3,769,000
Total Project Cost ⁽²⁾				\$14,500,000
Notes:				

⁽¹⁾ Estimated from cost curve from construction bid tabs for aeration tanks.

 Table A.5
 Supplemental Carbon Project Cost Estimate

			Total			
1	LS	\$85,000	\$80,000			
		\$25,000	\$25,000			
25	%	\$27,500	\$28,000			
20	%	\$22,000	\$22,000			
			\$160,000			
	40%		\$64 , 000			
			\$223,000			
	18%		\$40 , 000			
	18%		\$40,000			
	7.25%		\$8,000			
			\$300,000			
	35%		\$78 , 000			
			\$400,000			
Notes: (1) Costs are in December 2021 dollars based on ENR-CCI CCI of 12482.						
	25 20	25 % 20 % 40% 18% 18% 7.25%	\$25,000 25 % \$27,500 20 % \$22,000 40% 18% 7.25%			

⁽²⁾ Costs are in December 2021 dollars based on ENR-CCI CCI of 12482.

Table A.6 Secondary Clarifier Project Cost Estimate

Description	Qty	Unit	Unit Cost	Total
Secondary Clarifier ⁽¹⁾	110,000	ft³	\$28	\$3,132,000
Site Work	1	LS	\$204,000	\$204,000
Yard Piping			\$313,000	\$313,000
EI&C	1	LS	\$423,000	\$423,000
Total Direct Costs				\$4,072,000
Contingency		40%		\$1,629,000
Subtotal				\$5,700,000
Contractor Overhead & Profit		18%		\$1,026,000
General Conditions		18%		\$1,026,000
Sales Tax on 50%		7.25%		\$207,000
Total Construction Cost				\$8,000,000
Project Cost Factor		35%		\$2,786,000
Total Project Cost ⁽³⁾				\$10,700,000 ⁽³⁾

- (1) Estimated from cost curve from construction bid tabs for secondary clarifiers.
- (2) Costs are in December 2021 dollars based on ENR-CCI CCI of 12482.
- (3) Estimated Project Cost is for 100-ft diameter secondary clarifier. The estimated project cost for a 125-ft diameter secondary clarifier (Option 3) is \$13.4M.

Table A.7 RAS/WAS Pump Station and Electrical Building Project Cost Estimate⁽¹⁾

Description	Qty	Unit	Unit Cost	Total
RAS Pumps	3	EA	\$45,000	\$135,000
WAS Pumps	2	EA	\$20,000	\$40,000
Piping/Valving	25	%	\$43,750	\$44,000
Electrical Building	1	LS	\$200,000	\$200,000
Installation	25	%	\$104,700	\$105,000
EI&C	20	%	\$83,750	\$84,000
Total Direct Costs				\$607,000
Contingency		40%		\$243,000
Subtotal				\$850,000
Contractor Overhead & Profit		18%		\$183,000
General Conditions		18%		\$183,000
Sales Tax on 50%		7.25%		\$37,000
Total Construction Cost				\$1,300,000
Project Cost Factor		35%		\$313,000
Total Project Cost ⁽²⁾				\$1,600,000 ⁽³⁾

Note

- (1) Based on Option 3 Secondary Treatment Expansion Layout.
- (2) Costs are in December 2021 dollars based on ENR-CCI CCI of 12482.
- (3) Estimated Project Cost for Option 1 and Option 2 Secondary Treatment Expansion Layout is \$1.8 and \$1.4 million, respectively.



Table A.8 Blower and Electrical Building Project Cost Estimate⁽¹⁾

Description	Qty	Unit	Unit Cost	Total
BlowerBuilding	1	EA	\$350,000	\$350,000
Blowers	3	EA	\$300,000	\$900,000
Air Header Piping	150	LF	\$250	\$38,000
Valving/Mechanical	15	%	\$193,100	\$193,000
Electrical Gear	1	LS	\$300,000	\$300,000
Installation	25	%	\$445,200	\$445,000
EI&C	20	%	\$356,100	\$356,000
Total Direct Costs				\$2,582,000
Contingency		40%		\$1,033,000
Subtotal				\$3,615,000
Contractor Overhead & Profit		18%		\$651,000
General Conditions		18%		\$651,000
Sales Tax on 50%		7.25%		\$131,000
Total Construction Cost				\$5,000,000
Project Cost Factor		35%		\$1,262,000
Total Project Cost ⁽²⁾				\$6,300,000 ⁽³⁾

- (1) Based on Option 3 Secondary Treatment Expansion Layout.
- (2) Costs are in December 2021 dollars based on ENR-CCI CCI of 12482.
- (3) Estimated Project Cost for Option 1 and Option 2 Secondary Treatment Expansion Layout is \$6.3 (same as Option 3) and \$7.2 million, respectively.

Table A.9 Southern Pond Improvements for Secondary Expansion Project Cost Estimate

Description	Qty	Unit	Unit Cost	Total		
Effluent Line to Southwest Pond	500	FT	\$250,000	\$125,000		
Pond Inlet Structures	2	EA	\$60,000	\$120,000		
Installation	25	%	\$68,750	\$61,000		
EI&C	20	%	\$55,000	\$49,000		
Total Direct Costs				\$355,000		
Contingency		40%		\$142,000		
Subtotal				\$497,000		
Contractor Overhead & Profit		18%		\$90,000		
General Conditions		18%		\$90,000		
Sales Tax on 50%		7.25%		\$18,000		
Total Construction Cost				\$700,000		
Project Cost Factor		35%		\$174,000		
Total Project Cost ⁽¹⁾				\$900,000		
Notes:						

 $\begin{tabular}{ll} \hline (1) & Costs are in December 2021 dollars based on ENR-CCI CCI of 12482. \\ \hline \end{tabular}$

Table A.10 Standby Generator Project Cost Estimate

Description	Qty	Unit	Unit Cost	Total
Standby Generator	1	EA	\$250,000	\$250,000
Structural	1	EA	\$75,000	\$75,000
Fuel Storage	1	EA	\$50,000	\$50,000
Valving/Mechanical	15	%	\$56,300	\$56,000
Installation	25	%	\$107,800	\$108,000
EI&C	20	%	\$86,300	\$86,000
Total Direct Costs				\$625,000
Contingency		40%		\$250,000
Subtotal				\$875,000
Contractor Overhead & Profit		18%		\$158,000
General Conditions		18%		\$158,000
Sales Tax on 50%		7.25%		\$32,000
Total Construction Cost				\$1,200,000
Project Cost Factor		35%		\$306,000
Total Project Cost ⁽¹⁾				\$1,500,000
Notes:				

(1) Costs are in December 2021 dollars based on ENR-CCI CCI of 12482.

Table A.11 Chlorine Contact Basin Project Cost Estimate

Description	Qty	Unit	Unit Cost	Total	
Chlorine Contact Basin	1	EA	\$950,000	\$3,132,000	
Inlet Basin Modifications	1	EA	\$100,000	\$100,000	
Chemical mixing/valves/mechanical	15	%	\$157,500	\$158,000	
Site Work	15	%	\$181,200	\$181,000	
Installation	25	%	\$347,200	\$347,000	
EI&C	20	%	\$241,500	\$242,000	
Bypass Pumping	1	LS	\$100,000	\$100,000	
Total Direct Costs				\$2,077,000	
Contingency		40%		\$831,000	
Subtotal				\$2,908,000	
Contractor Overhead & Profit		18%		\$523,000	
General Conditions		18%		\$523,000	
Sales Tax on 50%		7.25%		\$105,000	
Total Construction Cost				\$4,100,000	
Project Cost Factor		35%		\$1,015,000	
Total Project Cost ⁽¹⁾				\$5,100,000	
Notes: (1) Costs are in December 2021 dollars based on ENR-CCI CCI of 12482.					

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Table A.12 SHS/SBS Storage and Feed Facility and Outfall Box Modification Project Cost Estimate

Description	Qty	Unit	Unit Cost	Total	
Chemical Building Modifications	1	EA	\$100,000	\$100,000	
Chemical Tanks	2	EA	\$75,000	\$150,000	
Chemical Pumps	2	EA	\$15,000	\$30,000	
Outfall Box Modifications	1	EA	\$100,000	\$100,000	
Piping/valving/mechanical	20	%	\$76,000	\$ 76 , 000	
Installation	25	%	\$114,000	\$114,000	
EI&C	20	%	\$91,200	\$92,000	
Total Direct Costs				\$661,000	
Contingency		40%		\$264,000	
Subtotal				\$926,000	
Contractor Overhead & Profit		18%		\$167,000	
General Conditions		18%		\$167,000	
Sales Tax on 50%		7.25%		\$34,000	
Total Construction Cost				\$1,300,000	
Project Cost Factor		35%		\$323,000	
Total Project Cost ⁽¹⁾				\$1,600,000	
Notes: (1) Costs are in December 2021 dollars based on ENR-CCI CCI of 12482.					

Table A.13 Primary Effluent Lift Station Improvements Project Cost Estimate

Description	Qty	Unit	Unit Cost	Total			
Structure Modifications	1	EA	\$250,000	\$250,000			
PE Pump	1	EA	\$150,000	\$150,000			
Valving/Mechanical	15	%	\$60,000	\$60,000			
Installation	25	%	\$115,000	\$115,000			
EI&C	20	%	\$92,000	\$92,000			
Bypass Pumping	1	LS	\$250,000	\$250,000			
Total Direct Costs				\$917,000			
Contingency		40%		\$347,000			
Subtotal				\$1,214,000			
Contractor Overhead & Profit		18%		\$218,000			
General Conditions		18%		\$218,000			
Sales Tax on 50%		7.25%		\$44 , 000			
Total Construction Cost				\$1,700,000			
Project Cost Factor		35%		\$424,000			
Total Project Cost ⁽¹⁾ \$2,100,000							
Notes: (1) Costs are in December 2021 dollars based	Notes:						

Table A.14 Primary Effluent Force Main Project Cost Estimate

Description	Qty	Unit	Unit Cost	Total
Force Main between PELS and ATs	600	FT	\$450	\$270,000
Installation ⁽¹⁾	40	%	\$108,000	\$108,000
EI&C	20	%	\$54,000	\$54,000
Total Direct Costs				\$432,000
Contingency		40%		\$173,000
Subtotal				\$605,000
Contractor Overhead & Profit		18%		\$109,000
General Conditions		18%		\$109,000
Sales Tax on 50%		7.25%		\$22,000
Total Construction Cost				\$800,000
Project Cost Factor		35%		\$211,000
Total Project Cost ⁽¹⁾			<u> </u>	\$1,100,000

Notes:



⁽¹⁾ Difficult installation.

⁽²⁾ Costs are in December 2021 dollars based on ENR-CCI CCI of 12482.

REGULATORY-DRIVENPROJECT COST ESTIMATES

Table A.15 MLE Project Cost Estimate

Description	Qty	Unit	Unit Cost	Total
MLE Pump	6	EA	\$116,700	\$700,000
Submersible Mixer	14	EA	\$59,400	\$832,000
Valving/Mechanical	15	%	\$229,800	\$230,000
Installation	15	%	\$264,200	\$264,000
EI&C	15	%	\$264,200	\$264,000
Total Direct Costs				\$2,290,000
Contingency		40%		\$916,000
Subtotal				\$3,206,000
Contractor Overhead & Profit		18%		\$158,000
General Conditions		18%		\$158,000
Sales Tax on 50%		7.25%		\$32,000
Total Construction Cost				\$3,600,000
Project Cost Factor		35%		\$888,000
Total Project Cost ⁽¹⁾				\$4,400,000 ⁽²⁾

Notes

Table A.16 Emergency Bypass, Storage, and Return Improvements

Description	Qty	Unit	Unit Cost	Total
Site Work	1	LS	\$1,440,000	\$1,440,000
Pump Station and Pipeline	1	LS	\$1,600,000	\$1,600,000
Bypass Pumping	1	LS	\$425,000	\$425,000
Total Direct Costs				\$3,456,000
Contingency		40%		\$1,386,000
Subtotal				\$4,851,000
Contractor Overhead & Profit		18%		\$873,000
General Conditions		18%		\$873,000
Sales Tax on 50%		7.25%		\$176,000
Total Construction Cost				\$6,800,000
Project Cost Factor		35%		\$1,693,000
Total Project Cost ⁽¹⁾				\$8,500,000
Notes: (1) Costs are in December 2021 dollars ba	sed on ENR-CCI (CCI of 12482.		

⁽¹⁾ Costs are in December 2021 dollars based on ENR-CCI CCI of 12482.

⁽²⁾ Total project cost is for retrofit of existing Aeration Tanks 3-6. An "MLE Addition" cost of \$1.1M is extended to each AT that is included in the various Secondary Treatment Expansion Options.

Table A.17 Cloth Disk Filter Project Cost Estimate

Description	Qty	Unit	Unit Cost	Total
Equipment ⁽¹⁾	1	LS	\$2,957,000	\$2,957,000
Concrete	1	LS	\$690,000	\$690,000
Piping	1	LS	\$1,331,000	\$1,331,000
E&IC	1	LS	\$1,183,000	\$1,183,000
Site Work	1	LS	\$616,000	\$616,000
Yard Piping	1	LS	\$616,000	\$616,000
Tertiary Lift Station	1	LS	\$1,200,000	\$1,214,000
Total Direct Cost				\$8,607,000
Estimating Contingency	40%			\$3,443,000
Subto	otal			\$12,050,000
Contractor Overhead & Profit	18%			\$2,169,000
General Conditions	18%			\$2,169,000
Sales Tax on 50%	7.25%			\$437,000
Total Construction Cost				\$16,825,000
Project Cost Factor	35%			\$5,889,000
Total Project Cost ⁽²⁾				\$22,714,000

Notes:

Table A.18 UV Capital Project Cost Estimate

Description	Qt	y Unit	Unit Cost	Total
UV Equipment	1	LS	\$6,207,000	\$6,207,000
Site Work	1	LS	\$621,000	\$621,000
Structural	1	LS	\$3,104,000	\$3,104,000
Electrical, Instrumentation, and Controls	1	LS	\$3,725,000	\$3,725,000
Electrical Building	1	LS	\$260,000	\$260,000
Piping	1	LS	\$1,552,000	\$1,552,000
Total Direct Costs				\$15,469,000
Contingency		40%		\$6,188,000
Sub	total			\$21,657,000
Contractor Overhead & Profit		18%		\$3,898,000
General Conditions		18%		\$3,898,000
Sales Tax on 50%		7%		\$785 , 000
Total Construction Cost				\$30,200,000
Project Cost Factor		35%		\$10,538,000
Total Project Cost				\$40,800,000
Notes:	[12/02			

⁽¹⁾ Costs are in December 2021 dollars based on ENR-CCI CCI of 12482.



⁽¹⁾ Equipment quote from vendor, with additional 20 percent added for installation.

⁽²⁾ Costs are in December 2021 dollars based on ENR-CCI CCI of 12482.

Appendix B **DAILY DATA**

CITY OF CHICO | REGIONALIZATION PLANNING REPORT FOR THE PARADISE SEWER PROJECT

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	Butte	CSU	 Min	Max	Avg	Min % of	Min % of	Avg % of	Flow	Diurnal Peak		7-d Avg of		Influent BOD	BOD/TSS	Influent NH3-N	Avg Inf	Avg Inf	Avg Inf	Load					non-SN			30-d Avg of non-SN	_
Date	Break?	Break?		Influent Flow, mgd		Avg	Max	Max	Outlier Type	Factor	of Avg Flow, mgd	Avg Flow, mgd	mg/L	Conc.,	Ratio	Conc.,	TSS Load, ppd	BOD Load, ppd	ppd	Outlier Type	of TSS Load, ppd		of NH3-N Load, ppd		BOD Load, ppd	NH3 Load, ppd		BOD Load,	NH3-N
										(DPF)				mg/L		mg/L											ppd	ppd	Load, ppd
5/1/2009 5/2/2009	FALSE FALSE	FALSE FALSE	3.77 4.01	9.96 11.03	7.78 8.15	48% 49%	38% 36%	78% 74%		1.28 1.35			237.00	202.00	0.85		15,374	13,103						15,374	13,103				
5/3/2009	FALSE	FALSE	4.22	11.01	7.99	53%	38%	73%		1.38																			
5/4/2009 5/5/2009	FALSE FALSE	FALSE FALSE	3.75 4.26	10.05 9.99	8.00 7.90	47% 54%	37% 43%	80% 79%		1.26 1.26			184.00 167.00	132.00	0.79		12,273 11,009	8,701						12,273 11,009	8,701				
5/6/2009	FALSE	FALSE	4.03	10.00	7.70	52%	40%	77%		1.30						16.17	·		1,038					·	·	1,038			
5/7/2009 5/8/2009	FALSE FALSE	FALSE FALSE	3.84 3.77	9.66 9.45	7.52 7.35	51% 51%	40% 40%	78% 78%		1.28 1.29			248.00 263.00	231.00	0.93		15,562 16,113	14,495						15,562 16,113	14,495				
5/9/2009	FALSE	FALSE	3.32	9.65	6.93	48%	34%	72%		1.39		7.7	203.00				10,113							10,113					
5/10/2009	FALSE	FALSE	2.88	9.69	6.83	42%	30%	71%		1.42		7.5	355.00				24.056			TCC				24.056					
5/11/2009 5/12/2009	FALSE FALSE	FALSE FALSE	3.48 3.64	9.18 9.20	7.11 7.24	49% 50%	38% 40%	77% 79%		1.29 1.27		7.4 7.3	355.00 272.00	199.00	0.73		21,056 16,415	12,009		TSS				21,056 16,415	12,009				
5/13/2009	FALSE	FALSE	3.56	9.33	7.24	49%	38%	78%		1.29		7.2																	
5/14/2009 5/15/2009	FALSE FALSE	FALSE FALSE	3.69 3.43	9.34 9.12	7.15 7.08	52% 48%	40% 38%	77% 78%		1.31 1.29		7.2 7.1	318.00 194.00	221.00	0.69	20.84	18,957 11,462	13,175	1,231					18,957 11,462	13,175	1,231			
5/16/2009	FALSE	FALSE	2.83	9.62	6.75	42%	29%	70%	MinAvg	1.43		7.1					,		_,					,		_,			
5/17/2009 5/18/2009	FALSE FALSE	FALSE FALSE	2.82 3.14	9.56 8.96	6.80 7.12	41% 44%	29% 35%	71% 79%	MinAvg	1.41 1.26		7.1 7.2	220.00				13,060							13,060					
5/19/2009	FALSE	FALSE	3.70	9.80	7.12	52%	38%	73%		1.36		7.2	251.00	184.00	0.73		15,030	11,018							10,909				
5/20/2009	FALSE	FALSE	3.36	9.32	7.25	46%	36%	78%		1.29		7.2	224.00			24.44	42.020		4 275					42.020		4 275			
5/21/2009 5/22/2009	FALSE FALSE	FALSE FALSE	3.42 3.48	9.16 9.33	7.23 7.23	47% 48%	37% 37%	79% 77%		1.27 1.29		7.2 7.2	231.00 261.00	213.00	0.82	21.14	13,929 15,738	12,844	1,275					13,929 15,738	12,844	1,275			
5/23/2009	FALSE	FALSE	3.30	9.60	6.94	48%	34%	72%		1.38		7.2																	
5/24/2009 5/25/2009	FALSE FALSE	TRUE TRUE	3.17 2.64	9.33 9.63	6.48 6.63	49% 40%	34% 27%	69% 69%	MinAvg	1.44 1.45		7.1 7.1																	
5/26/2009	FALSE	TRUE	3.19	8.60	6.85	47%	37%	80%	14111111111111	1.26		7.0	207.00	206.00	1.00		11,819	11,762						11,819	11,762				
5/27/2009	FALSE	TRUE	3.37	8.61	6.82	49%	39%	79%		1.26		7.0	200.00			10.00	11 005		1 121					11 005		1 121			
5/28/2009 5/29/2009	FALSE TRUE	TRUE TRUE	3.51 3.41	8.61 8.50	6.82 6.68	51% 51%	41% 40%	79% 79%		1.26 1.27		6.9 6.8	209.00 312.00			19.88	11,895 17,382		1,131					11,895 17,382		1,131			
5/30/2009	TRUE	TRUE	2.99	8.89	6.39	47%	34%	72%		1.39		6.7									14,401	12,138	1,169				14,382	12,125	1,169
5/31/2009 6/1/2009	TRUE TRUE	TRUE TRUE	2.70 3.06	8.81 8.61	6.40 6.66	42% 46%	31% 36%	73% 77%		1.38 1.29	7.2 7.2	6.6 6.7	272.00				15,108				14,401 14,383	12,138 12,001	1,169 1,169	15,108			14,382 14,364	12,125 11,985	1,169 1,169
6/2/2009	TRUE	TRUE	3.36	8.54	6.69	50%	39%	78%		1.28	7.1	6.7	250.00				13,957				14,357	12,001	1,169	13,957			14,339	11,985	1,169
6/3/2009	TRUE	TRUE	3.35	8.27	6.80	49%	41%	82%		1.22	7.1	6.7	222.00				10 520				14,357	12,001	1,169	10 520			14,339	11,985	1,169
6/4/2009 6/5/2009	TRUE TRUE	TRUE TRUE	3.67 3.60	8.88 8.70	6.90 6.82	53% 53%	41% 41%	78% 78%		1.29 1.28	7.0 7.0	6.7 6.7	322.00			20.40	18,530		1,160		14,748 14,997	12,001 12,550	1,169 1,167	18,530		1,160	14,730 14,978	11,985 12,532	1,169 1,167
6/6/2009	TRUE	TRUE	3.60	8.80	6.41	56%	41%	73%		1.37	6.9	6.6									14,997	12,550	1,199				14,978	12,532	1,199
6/7/2009 6/8/2009	TRUE TRUE	TRUE TRUE	2.87 3.07	8.85 8.71	6.21 6.52	46% 47%	32% 35%	70% 75%		1.43 1.34	6.9 6.9	6.6 6.6	248.00				13,481				14,957 14,769	12,161 12,161	1,199 1,199	13,481			14,936 14,748	12,140 12,140	1,199 1,199
6/9/2009	TRUE	TRUE	3.39	8.29	6.55	52%	41%	79%		1.27	6.8	6.6	227.00				12,397				14,611	12,161	1,199	12,397			14,592	12,140	1,199
6/10/2009	TRUE	TRUE	3.36	8.38	6.62	51%	40%	79%		1.27	6.8	6.6	250.00	105.00	0.70		12.005	10.050			14,611	12,161	1,199	12.005	10.050		14,592	12,140	1,199
6/11/2009 6/12/2009	TRUE TRUE	TRUE TRUE	3.40 3.29	8.29 8.50	6.55 6.35	52% 52%	41% 39%	79% 75%		1.26 1.34	6.8	6.6 6.5	250.00 274.00	195.00	0.78	19.98	13,665 14,506	10,659	1,058		14,551 14,432	11,911 11,891	1,199 1,171	13,665 14,506	10,659	1,058	14,534 14,414	11,893 11,869	1,199 1,171
6/13/2009	TRUE	TRUE	2.87	8.43	6.11	47%	34%	73%		1.38	6.7	6.4									14,432	11,891	1,171				14,414	11,869	1,171
6/14/2009 6/15/2009	TRUE TRUE	TRUE TRUE	2.50 2.92	8.50 8.42	6.04 6.45	41% 45%	29% 35%	71% 77%	MinAvg	1.41 1.31	6.7 6.7	6.4 6.4	237.00				12,741				14,131 14,216	11,571 11,571	1,171 1,156	12,741			14,112 14,197	11,543 11,543	1,171 1,156
6/16/2009	TRUE	TRUE	3.00	8.40	6.51	46%	36%	78%		1.29	6.7	6.4	237.00	204.00			,,	11,076			14,216	11,472	1,156	,,	10,671		14,197	11,369	1,156
6/17/2009	TRUE	TRUE	3.00	8.40	6.51	46%	36%	78%		1.29	6.7	6.4	260.00	196.00	0.72	10.49	14,116	0.020	1 040		14,210	11,472	1,156	14,116	0.029	1.040	14,192	11,369	1,156
6/18/2009 6/19/2009	TRUE TRUE	TRUE TRUE	3.30 3.30	8.20 8.31	6.40 6.40	52% 52%	40% 40%	78% 77%		1.28 1.30	6.7 6.6	6.4 6.4	256.00 235.00	186.00	0.73	19.48	13,664 12,543	9,928	1,040		14,247 14,092	11,214 11,254	1,133 1,133	13,664 12,543	9,928	1,040	14,230 14,092	11,129 11,173	1,133 1,133
6/20/2009	TRUE	TRUE	2.77	8.46	6.10	45%	33%	72%		1.39	6.6	6.4									14,092	11,254	1,133				14,092	11,173	1,133
6/21/2009 6/22/2009	TRUE TRUE	TRUE TRUE	2.46 3.06	8.20 8.43	5.95 6.43	41% 48%	30% 36%	73% 76%	MinAvg	1.38 1.31	6.6 6.5	6.4 6.4	231.00				12,380				14,103 13,879	11,254 10,856	1,097 1,097	12,380			14,103 13,879	11,173 10,755	1,097 1,097
6/23/2009	TRUE	TRUE	3.49	8.07	6.40	55%	43%	79%		1.26	6.5	6.4	167.00	161.00	0.96		8,917	8,596			13,569	10,404	1,097	8,917	8,596		13,569	10,323	1,097
6/24/2009	TRUE	TRUE	3.49	8.03	6.34	55%	43%	79%		1.27	6.5	6.4				21.27			1 142		13,569	10,404	1,097			1 1 4 2	13,569	10,323	1,097
6/25/2009 6/26/2009	TRUE TRUE	TRUE TRUE	3.51	7.97 8.30	6.41 6.29	55% 51%	44% 39%	80% 76%		1.24 1.32	6.5 6.5	6.4 6.3	310.00			21.37	16,262		1,143		13,569 13,847	10,404 10,065	1,106 1,106	16,262		1,143	13,569 13,847	10,323 9,964	1,106 1,106
6/27/2009	TRUE	TRUE	2.70	8.10	5.94	45%	33%	73%		1.36	6.5	6.3									13,847	10,065	1,106				13,847	9,964	1,106
6/28/2009 6/29/2009	TRUE	TRUE TRUE	2.54	8.06 8.46	5.90 6.44	43% 50%	32% 38%	73% 76%		1.37 1.31	6.4 6.4	6.2 6.3	242.00			22.99	12,998		1,235		13,977 13,684	10,065 10,065	1,100 1,127	12,998		1,235	13,977 13,684	9,964 9,964	1,100 1,127
6/30/2009	TRUE TRUE	TRUE	3.20 3.37	8.12	6.45	52%	42%	79%		1.31	6.4	6.3	250.00	145.00	0.58	22.33	13,457	7,805	1,233		13,670	9,613	1,127	13,457	7,805	1,433	13,670	9,532	1,127
7/1/2009	TRUE	TRUE	3.38	8.20	6.43	53%	41%	78%		1.27	6.4	6.3	27.5	407.5			4	40.4==			13,670	9,613	1,127	4=:	40.55		13,670	9,532	1,127
7/2/2009	TRUE	TRUE	3.35	8.05	6.33	53%	42%	79%		1.27	6.4	6.3	274.00	197.00	0.72		14,474	10,407			13,631	9,745	1,127	14,474	10,407		13,631	9,678	1,127

											Diurnal	22.14			Influent		Influent					22.14	22.14	22.14	CNI	CN	CNI	30-d Avg	30-d Avg	30-d Avg
Date	Butte Break?	CSU Break?	Precip?	Min Influent	Max Influent	Avg Influent		Min % of		Flow Outlier	Peak		7-d Avg of Avg Flow,		BOD	BOD/TSS	NH3-N	Avg Inf TSS Load,	Avg Inf BOD Load,	Avg Inf NH3 Load,	Load Outlier	30-d Avg of TSS		30-d Avg of NH3-N				of non-SN	of non-SN	of non-SN
	DIEdKI	DIEGKT		Flow, mgc	Flow, mgd	l Flow, mgd	Avg	Max	Max	Туре	Factor (DPF)	Flow, mgd	mgd	mg/L	Conc., mg/L	Ratio	Conc., mg/L	ppd	ppd	ppd	Туре	Load, ppd	Load, ppd	Load, ppd	ppd	ppd	ppd	ppd	BOD Load, ppd	, NH3-N Load, ppd
7/3/2009	TRUE	TRUE		2.91	8.06	5.93	49%	36%	74%		1.36	6.4	6.2									13,609	9,745	1,127				13,609	9,678	1,127
7/4/2009 7/5/2009	TRUE TRUE	TRUE TRUE		2.67 2.37	7.66 7.73	5.43 5.78	49% 41%	35% 31%	71% 75%	MinAvg	1.41 1.34	6.3 6.3	6.1 6.1									13,609 13,257	9,745 9,745	1,127 1,127				13,609 13,257	9,678 9,678	1,127 1,127
7/6/2009	TRUE	TRUE		3.01	8.26	6.37	47%	36%	77%		1.30	6.3	6.2	239.00				12,693				13,220	9,745	1,119	12,693			13,220	9,678	1,119
7/7/2009 7/8/2009	TRUE TRUE	TRUE TRUE		3.41 3.32	8.11 8.00	6.33 6.30	54% 53%	42% 42%	78% 79%		1.28 1.27	6.3 6.3	6.2 6.2	213.00	167.00	0.78		11,252	8,822			13,097 13,097	9,613 9,613	1,119 1,119	11,252	8,822		13,097 13,097	9,555 9,555	1,119 1,119
7/9/2009	TRUE	TRUE		3.51	7.97	6.22	56%	44%	78%		1.28	6.3	6.1				20.70			1,074		13,071	9,613	1,110			1,074	13,071	9,555	1,110
7/10/2009 7/11/2009	TRUE TRUE	TRUE TRUE		3.34 2.68	8.30 8.12	6.29 5.94	53% 45%	40% 33%	76% 73%		1.32 1.37	6.3 6.3	6.1 6.1	333.00	224.00	0.67		17,463	11,747			13,409 13,409	9,880 9,880	1,110 1,110	17,463	11,747		13,409 13,409	9,829 9,829	1,110 1,110
7/11/2009	TRUE	TRUE		2.51	8.01	5.91	42%	31%	74%		1.36	6.2	6.2									13,390	9,769	1,110				13,390	9,711	1,110
7/13/2009	TRUE	TRUE		2.83	8.28	6.27	45%	34%	76%		1.32	6.2	6.2	215.00	474.00	0.07		11,236	0 227			13,157	9,769	1,123	11,236	0.227		13,157	9,711	1,123
7/14/2009 7/15/2009	TRUE TRUE	TRUE TRUE		3.21 3.18	7.94 8.09	6.43 6.41	50% 50%	40% 39%	81% 79%		1.23 1.26	6.3 6.3	6.2 6.2	200.00	174.00	0.87		10,732	9,337			12,995 12,995	9,715 9,715	1,123 1,123	10,732	9,337		12,995 12,995	9,664 9,664	1,123 1,123
7/16/2009	TRUE	TRUE		3.18	7.94	6.50	49%	40%	82%		1.22	6.3	6.2	262.00			20.77	14,194		1,125		13,092	9,715	1,123	14,194		1,125	13,092	9,664	1,123
7/17/2009	TRUE TRUE	TRUE TRUE		3.20	8.10 8.10	6.21	52% 48%	40% 35%	77% 73%		1.30	6.3	6.2 6.2	231.00	176.00	0.76		11,964	9,115			13,022	9,470 9,470	1,123 1,123	11,964	9,115		13,022	9,470 9,470	1,123 1,123
7/18/2009 7/19/2009	TRUE	TRUE		2.80 2.49	7.95	5.89 5.82	48%	31%	73%		1.38 1.37	6.2 6.2	6.2									12,949 12,897	9,470	1,123				12,949 12,897	9,470	1,123
7/20/2009	TRUE	TRUE		2.96	8.57	6.42	46%	35%	75%		1.33	6.2	6.2	232.00				12,426				12,889	9,404	1,144	12,426			12,889	9,404	1,144
7/21/2009 7/22/2009	TRUE TRUE	TRUE TRUE		3.23 3.19	8.17 8.25	6.43 6.40	50% 50%	40% 39%	79% 78%		1.27 1.29	6.2 6.2	6.3 6.3	92.00				4,934				12,359 12,359	9,404 9,404	1,144 1,144	4,934			12,359 12,359	9,404 9,404	1,144 1,144
7/23/2009	TRUE	TRUE		2.86	8.13	6.35	45%	35%	78%		1.28	6.2	6.3									12,357	9,404	1,144				12,357	9,404	1,144
7/24/2009	TRUE	TRUE		3.39	8.38	6.29	54%	40%	75%		1.33	6.2	6.2	207.00	186.00	0.90		10,866	9,764			12,496	9,571	1,144	10,866	9,764		12,496	9,571	1,144
7/25/2009 7/26/2009	TRUE TRUE	TRUE TRUE		2.82	7.97 8.01	6.01 5.92	47% 41%	35% 30%	75% 74%	MinAvg	1.33 1.35	6.2 6.2	6.2 6.2									12,496 12,496	9,571 9,571	1,144 1,145				12,496 12,496	9,571 9,571	1,144 1,145
7/27/2009	TRUE	TRUE		2.80	8.30	6.32	44%	34%	76%		1.31	6.2	6.3	179.00				9,435				12,009	9,571	1,145	9,435			12,009	9,571	1,145
7/28/2009 7/29/2009	TRUE TRUE	TRUE TRUE		2.60 3.30	8.30 8.20	6.42 6.47	40% 51%	31% 40%	77% 79%	MinAvg	1.29 1.27	6.2 6.2	6.3 6.3	212.00 185.00	113.00	0.53		11,351 9,983	6,050			11,965 11,841	9,131 9,131	1,145 1,145	11,351 9,983	6,050		11,965 11,841	9,131 9,131	1,145 1,145
7/30/2009	TRUE	TRUE		3.40	8.20	6.70	51%	41%	82%		1.22	6.2	6.4	183.00			19.18	3,363		1,072		11,764	9,131	1,090	3,363		1,072	11,764	9,131	1,090
7/31/2009	TRUE	TRUE		3.27	8.17	6.19	53%	40%	76%		1.32	6.2	6.3		179.00				9,238			11,643	9,310	1,090		9,238		11,643	9,310	1,090
8/1/2009 8/2/2009	TRUE TRUE	TRUE TRUE		2.71 2.73	8.17 8.18	5.90 6.12	46% 45%	33% 33%	72% 75%		1.38 1.34	6.2 6.2	6.3									11,643 11,425	9,310 9,153	1,090 1,090				11,643 11,425	9,310 9,153	1,090 1,090
8/3/2009	TRUE	TRUE		3.18	8.43	6.51	49%	38%	77%		1.30	6.2	6.3									11,425	9,153	1,090				11,425	9,153	1,090
8/4/2009 8/5/2009	TRUE TRUE	TRUE TRUE		3.41 3.44	8.43 8.63	6.52 6.48	52% 53%	40% 40%	77% 75%		1.29 1.33	6.3 6.3	6.3 6.4	206.00	154.00	0.75		11,208	8,379			11,410 11,410	9,056 9,056	1,090 1,090	11,208	8,379		11,410 11,410	9,056 9,056	1,090 1,090
8/6/2009	TRUE	TRUE		3.48	8.13	6.53	53%	43%	80%		1.25	6.3	6.4	269.00	183.00	0.68		14,645	9,963			11,549	9,157	1,090	14,645	9,963		11,410	9,157	1,090
8/7/2009	TRUE	TRUE		3.40	8.60	6.48	52%	40%	75%		1.33	6.3	6.3									11,572	9,199	1,090				11,572	9,199	1,090
8/8/2009 8/9/2009	TRUE TRUE	TRUE TRUE		3.00 2.53	8.40 8.33	6.23 6.13	48% 41%	36% 30%	74% 74%	MinAvg	1.35 1.36	6.3 6.3	6.3 6.4									11,572 11,572	9,199 9,199	1,090 1,098				11,572 11,572	9,199 9,199	1,090 1,098
8/10/2009	TRUE	TRUE		3.13	8.50	6.52	48%	37%	77%		1.30	6.3	6.5	172.00				9,359				10,949	8,835	1,098	9,359			10,949	8,835	1,098
8/11/2009	TRUE	TRUE		3.53	8.53	6.74	52%	41%	79%		1.27	6.3	6.5	209.00	127.00	0.61		11,745	7,137			11,005	8,623	1,098	11,745	7,137		11,005	8,623	1,098
8/12/2009 8/13/2009	TRUE TRUE	TRUE TRUE		3.42 3.44	8.68 8.37	6.58 6.60	52% 52%	39% 41%	76% 79%		1.32 1.27	6.3 6.4	6.5 6.5	237.00	165.00	0.70	20.97	13,045	9,082	1,154		11,005 11,135	8,623 8,674	1,098 1,117	13,045	9,082	1,154	11,005 11,135	8,623 8,674	1,098 1,117
8/14/2009	TRUE	TRUE		3.29	8.24	6.39	52%	40%	78%		1.29	6.4	6.5	240.00				12,782				11,281	8,591	1,117	12,782			11,281	8,591	1,117
8/15/2009 8/16/2009	TRUE TRUE	TRUE TRUE		2.73 2.53	8.60 8.73	6.27 6.37	44% 40%	32% 29%	73% 73%	MinAvg	1.37 1.37	6.4 6.3	6.5 6.5									11,281 11,057	8,591 8,591	1,117 1,113				11,281 11,057	8,591 8,591	1,117 1,113
8/17/2009	TRUE	TRUE		3.18	8.67	6.78	47%	37%	78%		1.28	6.4	6.6	172.00				9,723				10,885	8,516	1,113	9,723			10,885	8,516	1,113
8/18/2009	TRUE	TRUE		3.42	8.82	6.84	50%	39%	78%		1.29	6.4	6.6	218.00	135.00	0.62		12,429	7,697			10,995	8,414	1,113	12,429	7,697		10,995	8,414	1,113
8/19/2009 8/20/2009	TRUE TRUE	TRUE TRUE		3.43 3.62	9.11 8.85	6.78 6.91	51% 52%	38% 41%	74% 78%		1.34 1.28	6.4 6.5	6.6 6.7	198.00			19.22	11,416		1,108		10,995 10,923	8,414 8,414	1,113 1,111	11,416		1,108	10,995 10,923	8,414 8,414	1,113 1,111
8/21/2009	TRUE	TRUE		3.03	8.69	6.94	44%	35%	80%		1.25	6.5	6.7	203.00				11,743		,		11,409	8,414	1,111	11,743		,	11,409	8,414	1,111
8/22/2009 8/23/2009	TRUE TRUE	TRUE TRUE		3.02 2.76	9.49 9.62	6.79 6.90	44% 40%	32% 29%	72%	MinAvg	1.40 1.39	6.5 6.5	6.8 6.8									11,409	8,414 8,414	1,111				11,409	8,414	1,111 1,111
8/23/2009	TRUE	TRUE		3.20	9.82	7.11	45%	34%	72% 76%	IVIIIIAVB	1.39	6.5	6.9	216.00				12,815				11,409 11,548	8,414	1,111 1,111	12,815			11,409 11,548	8,414 8,221	1,111
8/25/2009	FALSE	FALSE		3.52	9.38	7.10	50%	38%	76%		1.32	6.6	6.9	210.00	147.00	0.70		12,438	8,707			11,608	8,282	1,111	12,438	8,707		11,608	8,282	1,111
8/26/2009 8/27/2009	FALSE FALSE	FALSE FALSE		3.46 3.55	9.11 9.22	7.11 7.12	49% 50%	38% 39%	78% 77%		1.28 1.29	6.6 6.6	7.0 7.0	212.00			20.32	12,589		1,207		11,608 11,818	8,282 8,282	1,111 1,135	12,589		1,207	11,608 11,818	8,282 8,282	1,111 1,135
8/28/2009	FALSE	FALSE		3.52	9.08	7.13	49%	39%	79%		1.27	6.6	7.0	221.00				13,138		.,_,,		11,937	8,600	1,135	13,138		-,,-	11,937	8,600	1,135
8/29/2009	FALSE	FALSE		2.76	9.47	6.74	41%	29%	71%	MinAvg	1.41	6.6	7.1									12,077	8,600	1,135				12,077	8,600	1,135
8/30/2009 8/31/2009	FALSE FALSE	FALSE FALSE		2.68 3.01	9.44 9.19	6.79 7.70	39% 39%	28% 33%	72% 84%	MinAvg MinAvg	1.39 1.19	6.6 6.7	7.1 7.1	215.00				13,810				12,077 12,192	8,600 8,494	1,156 1,156	13,810			12,077 12,192	8,600 8,494	1,156 1,156
9/1/2009	FALSE	FALSE		3.61	9.25	6.54	55%	39%	71%	J	1.41	6.7	7.0	203.00	164.00	0.81		11,079	8,951			12,123	8,559	1,156	11,079	8,951		12,123	8,559	1,156
9/2/2009	FALSE	FALSE		3.47	9.23	7.13	49% 45%	38%	77% 78%		1.29	6.7	7.0	221.00			22.64	12 27/		1 061		12,123	8,559 8 550	1,156	12 274		1 061	12,123	8,559 8 550	1,156 1,357
9/3/2009	FALSE	FALSE		3.24	9.22	7.20	45%	35%	78%		1.28	6.8	7.0	221.00			32.64	13,274		1,961		12,191	8,559	1,357	13,274		1,961	12,191	8,559	1,357

											Diurnal				Influent		Influent											20 d Ava	30-d Avg	20 d Ava
Date	Butte	CSU	Precip?	Min Influent	Max Influent	Avg Influent	Min % of	Min % of	Avg % of	Flow Outlier	Peak		7-d Avg of Avg Flow.	Influent TSS Conc.,	BOD	BOD/TSS		Avg Inf TSS Load.	Avg Inf BOD Load,	Avg Inf NH3 Load.	Load Outlier	30-d Avg of TSS		30-d Avg of NH3-N					of non-SN	
	Break?	Break?			Flow, mgd		Avg	Max	Max	Туре	Factor (DPF)	Flow, mgd	mgd	mg/L	Conc., mg/L	Ratio	Conc., mg/L	ppd	ppd	ppd	Туре			Load, ppd		ppd	ppd	TSS Load, ppd	BOD Load, ppd	, NH3-N Load, ppd
9/4/2009	FALSE	FALSE		3.41	9.01	7.10	48%	38%	79%		1.27	6.8	7.0	203.00	178.00	0.88		12,024	10,543			12,238	8,868	1,357	12,024	10,543		12,238	8,868	1,357
9/5/2009 9/6/2009	FALSE FALSE	FALSE FALSE		3.08 2.72	9.77 9.61	6.86 6.58	45% 41%	32% 28%	70% 68%	MinAvg	1.42 1.46	6.8 6.8	7.0 7.0									12,238 12,088	8,868 8,686	1,357 1,357				12,238 12,088	8,868 8,686	1,357 1,357
9/7/2009	FALSE	FALSE		2.60	9.70	6.90	38%	27%	71%	MinAvg	1.41	6.8	7.0									12,088	8,686	1,357				12,088	8,686	1,357
9/8/2009 9/9/2009	FALSE FALSE	FALSE FALSE		3.20	9.10 8.99	7.12 7.14	45% 49%	35% 39%	78% 79%		1.28 1.26	6.9 6.9	7.0 7.1	207.00	161.00	0.78		12,292	9,560			12,100	8,811 8,811	1,357 1,357	12,292	9,560		12,100 12,100	8,811 8,811	1,357 1,357
9/10/2009	FALSE	FALSE		3.50 3.50	9.10	7.14	49%	38%	78%		1.28	6.9	7.1	228.00			21.52	13,501		1,274		12,100 12,344	8,811	1,337	13,501		1,274	12,100	8,811	1,341
9/11/2009	FALSE	FALSE		3.50	9.10	7.00	50%	38%	77%		1.30	6.9	7.1	216.00				12,610				12,395	9,090	1,341	12,610			12,395	9,090	1,341
9/12/2009 9/13/2009	FALSE FALSE	FALSE FALSE		3.30 3.20	9.45 9.90	6.77 7.05	49% 45%	35% 32%	72% 71%		1.40 1.40	6.9 6.9	7.0 7.0									12,395 12,354	9,090 9,092	1,341 1,387				12,395 12,354	9,090 9,092	1,341 1,387
9/14/2009	FALSE	FALSE		3.49	9.31	7.54	46%	37%	81%		1.23	7.0	7.1									12,325	9,092	1,387				12,325	9,092	1,387
9/15/2009	FALSE FALSE	FALSE FALSE		3.72	9.34	7.40	50%	40%	79%		1.26	7.0	7.1 7.2	237.00	201.00	0.85	19.28	14,619	12,398	1,189		12,469	9,643	1,348	14,619	12,398	1,189	12,469	9,643	1,348
9/16/2009 9/17/2009	FALSE	FALSE		3.90 3.00	9.50 9.00	7.30 7.30	53% 41%	41% 33%	77% 81%	MinAvg	1.30 1.23	7.0 7.0	7.2									12,469 12,652	9,643 9,643	1,348 1,348				12,469 12,652	9,643 9,643	1,348 1,348
9/18/2009	FALSE	FALSE		3.00	9.00	7.30	41%	33%	81%	MinAvg	1.23	7.1	7.2	242.00				14,733				12,805	10,032	1,348	14,733			12,805	10,032	1,348
9/19/2009 9/20/2009	FALSE FALSE	FALSE FALSE		3.00	9.00 9.00	7.30 6.78	41% 44%	33% 33%	81% 75%	MinAvg	1.23 1.33	7.1 7.1	7.2 7.2									12,805 12,905	10,032 10,032	1,348 1,408				12,805 12,905	10,032 10,032	1,348 1,408
9/21/2009	FALSE	FALSE		3.04	9.23	7.23	42%	33%	78%	MinAvg	1.28	7.1	7.3	215.00				12,971				12,992	10,032	1,408	12,971			12,992	10,032	1,408
9/22/2009	FALSE	FALSE		3.35	9.37	7.03	48%	36%	75%		1.33	7.1	7.1	220.00	181.00	0.82		12,891	10,606			12,986	10,128	1,408	12,891	10,606		12,986	10,128	1,408
9/23/2009 9/24/2009	FALSE FALSE	FALSE FALSE		3.42 3.41	9.42 9.22	7.01 7.09	49% 48%	36% 37%	74% 77%		1.34 1.30	7.1 7.1	7.0 7.0				21.73			1,285		12,986 12,998	10,128 10,128	1,408 1,383			1,285	12,986 12,998	10,128 10,128	1,408 1,383
9/25/2009	FALSE	FALSE		3.46	9.35	6.83	51%	37%	73%		1.37	7.1	6.9		188.00				10,712	,		13,041	10,462	1,383		10,712	,	13,041	10,462	1,383
9/26/2009 9/27/2009	FALSE FALSE	FALSE FALSE		2.94 2.51	9.33 9.31	6.67 6.72	44% 37%	32% 27%	72% 72%	MinAvg	1.40 1.39	7.0 7.0	6.9 6.9									13,041 13,079	10,462 10,462	1,383 1,427				13,041 13,079	10,462 10,462	1,383 1,427
9/28/2009	FALSE	FALSE		3.25	9.23	7.16	45%	35%	78%	WIIIIAVB	1.29	7.0	7.0	195.00				11,641				12,954	10,462	1,427	11,641			12,954	10,462	1,427
9/29/2009	FALSE	FALSE		3.31	9.19	7.15	46%	36%	78%		1.29	7.0	7.0	165.00	126.00	0.76		9,834	7,509			12,714	10,040	1,427	9,834	7,509		12,714	10,040	1,427
9/30/2009 10/1/2009	FALSE FALSE	FALSE FALSE		3.32 3.21	9.16 8.83	7.26 7.09	46% 45%	36% 36%	79% 80%		1.26 1.25	7.1 7.1	7.0 7.0	288.00			24.32	17,025		1,438		12,714 12,961	10,040 10,040	1,427 1,429	17,025		1,438	12,714 12,961	10,040 10,040	1,427 1,429
10/2/2009	FALSE	FALSE		3.40	8.79	7.19	47%	39%	82%		1.22	7.1	7.0	208.00	170.00	0.82		12,466	10,188	_,		13,068	10,217	1,429	12,466	10,188	_,	13,068	10,217	1,429
10/3/2009	FALSE FALSE	FALSE FALSE		3.09	9.41 7.78	6.57 6.82	47%	33% 19%	70%	rgMinMaxA	1.43	7.1 7.1	7.0 7.1									13,068	10,217	1,429 1,296				13,068	10,217	1,429 1,296
10/4/2009 10/5/2009	FALSE	FALSE		1.44 2.82	9.37	6.98	21% 40%	30%	88% 75%	MinAvg	1.14 1.34	7.1	7.1	217.00				12,636				13,051 13,102	10,217 10,162	1,296	12,636			13,051 13,102	10,217 10,162	1,296
10/6/2009	FALSE	FALSE		3.09	9.03	7.17	43%	34%	79%		1.26	7.1	7.1	212.00	131.00	0.62		12,681	7,836			13,069	9,830	1,296	12,681	7,836		13,069	9,830	1,296
10/7/2009 10/8/2009	FALSE FALSE	FALSE FALSE		3.14 3.29	9.04 9.37	7.12 7.19	44% 46%	35% 35%	79% 77%		1.27 1.30	7.1 7.1	7.1 7.1	215.00			19.71	12,896		1,170		13,069 13,057	9,830 9,830	1,271 1,271	12,896		1,170	13,069 13,057	9,830 9,830	1,271 1,271
10/9/2009	FALSE	FALSE		3.25	9.19	7.02	46%	35%	76%		1.31	7.1	7.0	199.00				11,647				13,011	9,875	1,271	11,647			13,011	9,875	1,271
10/10/2009	FALSE	FALSE		3.26	9.76	6.80	48%	33%	70%	N 41 A	1.43	7.1	7.0									13,011	9,875	1,271				13,011	9,875	1,271
10/11/2009 10/12/2009	FALSE FALSE	FALSE FALSE		2.68 2.96	9.30 9.57	6.84 7.38	39% 40%	29% 31%	74% 77%	MinAvg MinAvg	1.36 1.30	7.1 7.1	7.1 7.1	343.00				21,123			TSS	12,973 13,003	9,875 9,875	1,270 1,270	21,123			12,973 13,003	9,875 9,875	1,270 1,270
10/13/2009	FALSE	FALSE		3.39	9.96	8.26	41%	34%	83%	MinAvg	1.21	7.1	7.1	228.00	175.00	0.77		15,714	12,061			13,212	10,187	1,270	15,714	12,061		13,212	10,187	1,270
10/14/2009 10/15/2009	FALSE	FALSE FALSE		4.23	9.80	8.33	51% 54%	43%	85%		1.18	7.1	7.3 7.4	213.00			19.64	13,423		1 175		13,212	10,187	1,270	12 //22		1 175	13,212 13,227	10,187	1,270 1,251
10/15/2009	FALSE FALSE	FALSE		4.05 3.72	9.60 8.92	7.56 7.37	50%	42% 42%	79% 83%		1.27 1.21	7.1 7.1	7.4		183.00	1.00	18.64	11,251	11,251	1,175		13,227 12,986	10,187 10,023	1,251 1,267	13,423 11,251	11,251	1,175	12,986	10,187 10,023	1,251
10/17/2009	FALSE	FALSE		3.50	9.37	7.08	49%	37%	76%		1.32	7.1	7.4									12,986	10,023	1,267				12,986	10,023	1,267
10/18/2009 10/19/2009	FALSE FALSE	FALSE FALSE		3.30 3.29	10.02 9.58	7.43 6.80	44% 48%	33% 34%	74% 71%		1.35 1.41	7.1 7.1	7.6 7.4	190.00				10,775				12,986 12,704	10,023 10,023	1,267 1,267	10,775			12,986 12,704	10,023 10,023	1,267 1,267
10/20/2009	FALSE	FALSE		3.52	9.40	6.22	57%	37%	66%		1.51	7.1	7.3	221.00	188.00	0.85		11,464	9,752			12,621	9,990	1,267	11,464	9,752		12,621	9,990	1,267
10/21/2009	FALSE	FALSE		3.31	9.57	7.01	47%	35%	73%		1.37	7.1	7.2				19.49			1,139		12,621	9,990	1,241			1,139	12,621	9,990	1,241
10/22/2009 10/23/2009	FALSE FALSE	FALSE FALSE		3.37 3.42	9.54 9.26	7.04 6.96	48% 49%	35% 37%	74% 75%		1.36 1.33	7.1 7.1	7.1 7.0	279.00	241.00	0.86		16,200	13,993			12,596 12,832	9,990 10,413	1,241 1,241	16,200	13,993		12,596 12,832	9,990 10,413	1,241 1,241
10/24/2009	FALSE	FALSE		3.19	9.19	6.92	46%	35%	75%		1.33	7.1	6.9					•	•			12,832	10,413	1,241	•	·		12,832	10,413	1,241
10/25/2009 10/26/2009	FALSE FALSE	FALSE FALSE		2.97 3.21	9.44 9.45	6.87 7.23	43% 44%	31% 34%	73% 76%		1.37 1.31	7.1 7.1	6.9 6.9	260.00				15,673				12,832 13,022	10,413 10,370	1,230 1,230	15,673			12,832 13,022	10,413 10,370	1,230 1,230
10/27/2009	FALSE	FALSE		3.49	9.69	7.62	46%	36%	79%		1.27	7.1	7.0	201.00				12,767				13,022	10,370	1,230	12,767			13,006	10,370	1,230
10/28/2009	FALSE	FALSE		3.79	9.27	5.94	64%	41%	64%		1.56	7.1	6.9				10.70			1 100		13,006	10,370	1,230			1 100	13,006	10,370	1,230
10/29/2009 10/30/2009	FALSE FALSE	FALSE FALSE		3.56	9.42	7.07 7.05	50%	38%	75%	rgMinMaxA	1.33 0.00	7.1 7.1	7.0 6.9	300.00	218.00	0.73	19.78	17,639	12,818	1,166		13,097 13,617	10,370 11,129	1,218 1,218	17.639	12,818	1,166	13,097 13,617	10,370 11,129	1,218 1,218
10/31/2009	FALSE	FALSE				7.50				'gMinMaxA'	0.00	7.1	6.9					,	,			13,617	11,129	1,218	,	,		13,617	11,129	1,218
11/1/2009 11/2/2009	FALSE FALSE	FALSE		2.81	9.46	6.80	41% 40%	30% 31%	72% 78%	MinAvg MinAvg	1.39	7.1 7.1	6.9 7.0	225.00				13,368				13,374	11,129	1,163	12 260			13,374	11,129	1,163
11/2/2009	FALSE	FALSE FALSE		2.85 3.20	9.14 9.06	7.12 7.07	45%	31% 35%	78% 78%	iviiiiAvg	1.28 1.28	7.1 7.1	7.0 6.9		177.00	0.78		13,444	10,437			13,438 13,439	11,285 11,164	1,163 1,163	13,368 13,444	10,437		13,438 13,439	11,285 11,164	1,163 1,163
11/4/2009	FALSE	FALSE		3.12	9.23	7.18	43%	34%	78%		1.29	7.1	6.8									13,439	11,164	1,163			,	13,439	11,164	1,163
11/5/2009	FALSE	FALSE		3.11	9.03	7.03	44%	34%	78%		1.28	7.1	7.1				24.46			1,435		13,496	11,164	1,217			1,435	13,496	11,164	1,217

											Diurnal				Influent		Influent											20 d Ava	20 d Ava	20 d Ava
Date	Butte	CSU	Precip?	Min Influent	Max Influent	Avg Influent	Min % of	Min % of	Avg % of	Flow Outlier	Diurnal Peak		7-d Avg of	Influent TSS Conc.,	Influent BOD	BOD/TSS	Influent NH3-N	Avg Inf	Avg Inf BOD Load,	Avg Inf	Load Outlier	30-d Avg of TSS		30-d Avg of NH3-N					30-d Avg of non-SN	
Jule	Break?	Break?	r recip.		l Flow, mgd		Avg	Max	Max	Туре	Factor (DPF)	Flow, mgd		mg/L	Conc., mg/L	Ratio	Conc., mg/L	ppd	ppd	ppd	Туре			Load, ppd		ppd	ppd	TSS Load, ppd	BOD Load, ppd	NH3-N Load, ppd
11/6/2009	FALSE	FALSE		3.21	8.90	6.97	46%	36%	78%		1.28	7.1	7.1	241.00	205.00	0.85		14,009	11,917			13,591	11,747	1,217	14,009	11,917		13,591	11,747	1,217
11/7/2009 11/8/2009	FALSE FALSE	FALSE FALSE		2.79 2.71	9.43 9.27	6.91 6.84	40% 40%	30% 29%	73% 74%	MinAvg MinAvg	1.36 1.35	7.1 7.1	7.1 7.1									13,591 13,644	11,747 11,747	1,229 1,229				13,591 13,644	11,747 11,747	1,229 1,229
11/9/2009	FALSE	FALSE		2.81	8.76	7.19	39%	32%	82%	MinAvg	1.22	7.1	7.1	205.00				12,289				13,694	11,747	1,229	12,289			13,694	11,747	1,229
11/10/2009 11/11/2009	FALSE FALSE	FALSE FALSE		2.81 3.33	9.38 9.65	6.89 7.28	41% 46%	30% 35%	73% 75%	MinAvg	1.36 1.33	7.1 7.1	7.1 7.1	279.00	192.00	0.69	22.10	16,039	11,038	1,270		13,861 13,861	11,658 11,658	1,237 1,237	16,039	11,038	1,270	13,861 13,861	11,658 11,658	1,237 1,237
11/11/2009	FALSE	FALSE		3.37	10.39	6.35	53%	32%	61%		1.64	7.1	6.9									13,861	11,658	1,237				13,861	11,658	1,237
11/13/2009	FALSE	FALSE		3.38	8.84	6.64	51%	38%	75%		1.33	7.0	6.8									13,719	11,601	1,237				13,719	11,601	1,237
11/14/2009 11/15/2009	FALSE FALSE	FALSE FALSE		2.78 2.64	9.58 9.30	6.83 6.85	41% 39%	29% 28%	71% 74%	MinAvg MinAvg	1.40 1.36	7.0 7.0	6.8 6.8									13,719 13,743	11,601 11,601	1,237 1,253				13,719 13,743	11,601 11,601	1,237 1,253
11/16/2009	FALSE	FALSE		2.96	8.93	7.10	42%	33%	79%	MinAvg	1.26	6.9	6.8	277.00	229.00	0.83		16,398	13,556			14,172	11,930	1,253	16,398	13,556		14,172	11,930	1,253
11/17/2009	FALSE FALSE	FALSE FALSE		3.04	9.25	7.25	42% 45%	33% 36%	78%	MinAvg	1.28	6.9	6.8 6.9									14,172	11,930	1,253				14,172	11,930	1,253
11/18/2009 11/19/2009	FALSE	FALSE		3.32 3.19	9.18 8.90	7.43 7.20	45%	36%	81% 81%		1.24 1.24	6.9 6.9	6.9	294.00			21.13	17,659		1,269		14,172 14,746	11,930 11,930	1,253 1,256	17,659		1,269	14,172 14,746	11,930 11,930	1,253 1,256
11/20/2009	FALSE	TRUE		3.33	9.43	7.25	46%	35%	77%		1.30	7.0	7.1	220.00				13,304		,		14,899	12,293	1,256	13,304		,	14,899	12,293	1,256
11/21/2009 11/22/2009	FALSE FALSE	TRUE TRUE		3.38 3.19	9.48 8.94	6.94 6.74	49% 47%	36% 36%	73% 75%		1.37 1.33	7.0 7.0	7.2 7.1									14,899 14,899	12,293 12,293	1,285 1,285				14,899 14,899	12,293 12,293	1,285 1,285
11/22/2009	FALSE	TRUE		2.94	8.61	6.88	43%	34%	80%		1.25	7.0	7.1	216.00				12,394				14,582	11,953	1,285	12,394			14,582	11,953	1,285
11/24/2009	FALSE	TRUE		3.14	8.26	6.56	48%	38%	79%		1.26	7.0	7.0	235.00	203.00	0.86	19.19	12,855	11,105	1,050		14,449	11,812	1,238	12,855	11,105	1,050	14,449	11,812	1,238
11/25/2009 11/26/2009	TRUE TRUE	TRUE TRUE		3.19 2.89	8.61 8.77	6.64 5.74	48% 50%	37% 33%	77% 65%		1.30 1.53	6.9 6.9	7.0 6.7									14,449 14,347	11,812 11,812	1,238 1,238				14,449 14,347	11,812 11,812	1,238 1,238
11/27/2009	TRUE	TRUE		3.21	8.33	6.18	52%	39%	74%		1.35	6.8	6.6									14,491	11,812	1,238				14,491	11,812	1,238
11/28/2009	TRUE	TRUE		2.83	9.03	5.91	48%	31%	65%		1.53	6.8	6.4									14,491	11,812	1,238				14,491	11,812	1,238
11/29/2009 11/30/2009	TRUE TRUE	TRUE TRUE		2.80 2.80	9.11 9.01	7.07 7.07	40% 40%	31% 31%	78% 78%	MinAvg MinAvg	1.29 1.27	6.8 6.8	6.4									14,491 14,176	11,812 11,610	1,256 1,256				14,491 14,176	11,812 11,610	1,256 1,256
12/1/2009	FALSE	FALSE		3.16	9.06	7.04	45%	35%	78%		1.29	6.8	6.3	228.00	205.00	0.90		13,387	12,036			14,104	11,681	1,256	13,387	12,036		14,104	11,681	1,256
12/2/2009	FALSE	FALSE		3.10	9.60	7.50	41%	32%	78%	MinAvg	1.28	6.8	6.3	220.00			21.93	12.100		1,372		14,104	11,681	1,279	42.400		1,372	14,104	11,681	1,279
12/3/2009 12/4/2009	FALSE FALSE	FALSE FALSE		3.10 3.11	9.60 8.92	6.89 6.85	45% 45%	32% 35%	72% 77%		1.39 1.30	6.8 6.8	6.4 6.6	228.00 242.00	219.00	0.90		13,100 13,825	12,511			14,080 14,114	11,681 12,027	1,279 1,279	13,100 13,825	12,511		14,080 14,114	11,681 12,027	1,279 1,279
12/5/2009	FALSE	FALSE		3.17	9.67	6.79	47%	33%	70%		1.42	6.8	6.7					-,-	,-			14,114	12,027	1,279	-,-	,-		14,114	12,027	1,279
12/6/2009	FALSE FALSE	FALSE FALSE		3.10	10.13 8.92	6.80	46%	31% 33%	67%	MinAvg	1.49	6.8	6.9	220.00				13,196				14,114	12,027	1,240 1,240	13,196			14,114	12,027	1,240
12/7/2009 12/8/2009	FALSE	FALSE		2.98 3.18	8.51	7.19 6.99	41% 46%	37%	81% 82%	IVIIIIAVg	1.24 1.22	6.7 6.8	6.9 6.9	205.00	195.00	0.95		11,944	11,361			14,040 13,866	12,049 11,935	1,240	11,944	11,361		14,040 13,866	12,049 11,935	1,240 1,240
12/9/2009	FALSE	FALSE		3.33	8.72	7.15	47%	38%	82%		1.22	6.8	6.9									13,866	11,935	1,240				13,866	11,935	1,240
12/10/2009 12/11/2009	FALSE FALSE	FALSE FALSE		3.37 3.40	8.62 8.70	7.10 7.74	47% 44%	39% 39%	82% 89%	AvgMax	1.21 1.12	6.8 6.8	6.9 6.9	254.00 241.00			22.23	15,036 15,553		1,316		14,095 14,054	11,935 12,114	1,255 1,252	15,036 15,553		1,316	14,095 14,054	11,935 12,114	1,255 1,252
12/11/2009	FALSE	FALSE		3.40	8.70	6.49	4470	3370	8370	rgMinMaxA	0.00	6.8	7.0	241.00				13,333				14,054	12,114	1,252	13,333			14,054	12,114	1,252
12/13/2009	FALSE	FALSE				7.57				rgMinMaxA		6.8	7.0									14,054	12,114	1,252				14,054	12,114	1,252
12/14/2009 12/15/2009	FALSE FALSE	FALSE FALSE		4.26 4.28	9.88 9.53	8.32 7.70	51% 56%	43% 45%	84% 81%		1.19 1.24	6.9 6.9	7.4 7.5	160.00 261.00	181.00	0.69		11,102 16,763	11,625			13,827 14,037	12,114 12,032	1,252 1,252	11,102 16,763	11,625		13,827 14,037	12,114 12,032	1,252 1,252
12/16/2009	FALSE	FALSE		4.51	10.11	8.35	54%	45%	83%		1.21	7.0	7.7	202.00	202.00	0.03		10,700	11,023			14,037	12,032	1,252	10,700	11,020		14,037	12,032	1,252
12/17/2009	FALSE	FALSE		4.24	9.89	8.08	53%	43%	82%		1.22	7.0	7.9	227.00	100.00	0.00	17.59	15,289	14.043	1,185		13,958	11,728	1,238	15,289	14.043	1,185	13,958	11,728	1,238
12/18/2009 12/19/2009	TRUE TRUE	TRUE TRUE		4.13 3.58	9.30 9.48	7.46 6.92	55% 52%	44% 38%	80% 73%		1.25 1.37	7.0 7.0	8.0 7.8	193.00	190.00	0.98		12,000	11,813			13,827 13,827	11,742 11,742	1,238 1,238	12,000	11,813		13,827 13,827	11,742 11,742	1,238 1,238
12/20/2009	TRUE	TRUE		3.41	9.06	6.74	51%	38%	74%		1.34	7.0	7.7	260.00				14,615				13,624	11,742	1,231	14,615			13,624	11,742	1,231
12/21/2009 12/22/2009	TRUE	TRUE TRUE		3.54	9.21	7.28 7.05	49% 52%	38% 40%	79% 78%		1.26	7.0	7.6 7.4	238.00			18 62	13,986		1 004		13,647	11,742	1,231	12 006		1,094	13,647	11,742	1,231
12/22/2009	TRUE TRUE	TRUE		3.65 3.47	9.02 8.65	7.03	49%	40%	78% 82%		1.28 1.21	7.0 7.0	7.4	244.00	193.00	0.79	18.62	14,509	11,477	1,094		13,670 13,722	11,742 11,704	1,203 1,203	13,986 14,509	11,477	1,094	13,670 13,722	11,742 11,704	1,203 1,203
12/24/2009	TRUE	TRUE		3.30	9.96	5.87	56%	33%	59%		1.70	7.0	7.1									13,811	11,704	1,203				13,811	11,704	1,203
12/25/2009 12/26/2009	TRUE TRUE	TRUE TRUE		2.53 2.83	8.50 10.10	5.40 5.72	47% 50%	30% 28%	64% 57%	AvgMax	1.57 1.77	6.9 6.9	6.7 6.6									13,879 13,879	11,804 11,804	1,242 1,242				13,879 13,879	11,804 11,804	1,242 1,242
12/27/2009	TRUE	TRUE		3.01	8.05	6.47	47%	37%	80%	, raginiay	1.24	7.0	6.6									13,879	11,804	1,242				13,879	11,804	1,242
12/28/2009	TRUE	TRUE		3.12	8.11	6.59	47%	38%	81%	A. 15	1.23	7.0	6.5		402.00				10.010			13,879	11,804	1,242		10.010		13,879	11,804	1,242
12/29/2009 12/30/2009	TRUE TRUE	TRUE TRUE		3.40 3.60	7.80 8.30	6.74 6.65	50% 54%	44% 43%	86% 80%	AvgMax	1.16 1.25	7.0 7.0	6.4 6.4	221.00	193.00			12,257	10,849			13,879 13,771	11,667 11,667	1,242 1,242	12,257	10,849		13,879 13,771	11,667 11,667	1,242 1,242
12/31/2009	TRUE	TRUE		3.52	9.95	6.78	52%	35%	68%		1.47	7.0	6.3	234.00			18.30	13,226		1,034		13,737	11,667	1,200	13,226		1,034	13,737	11,667	1,200
1/1/2010	TRUE	TRUE	TRUE	3.59	8.27	6.30	57%	43%	76%		1.31	7.0	6.4									13,760	11,606	1,200				13,760	11,606	1,200
1/2/2010 1/3/2010	TRUE TRUE	TRUE TRUE	FALSE FALSE	3.39 3.16	8.90 8.54	6.46 6.71	52% 47%	38% 37%	73% 79%		1.38 1.27	7.0 7.0	6.5 6.6									13,760 13,807	11,606 11,606	1,157 1,157				13,760 13,807	11,606 11,606	1,157 1,157
1/4/2010	TRUE	TRUE	TRUE	3.10	8.24	6.68	46%	38%	81%		1.23	6.9	6.6	234.00				13,027				13,750	11,425	1,157	13,027			13,750	11,425	1,157
1/5/2010	TRUE	TRUE	TRUE FALSE	3.35 3.25	8.09 8.01	6.70 6.64	50% 49%	41%	83% 83%		1.21 1.21	6.9	6.6	232.00	204.00	0.88		12,964	11,399			13,698	11,421	1,157 1,157	12,964	11,399		13,698	11,421	1,157 1 157
1/6/2010 1/7/2010	TRUE TRUE	TRUE TRUE	TRUE	3.52	8.01 7.99	6.69	53%	41% 44%	84%		1.19	6.9 6.9	6.6 6.6	272.00			20.23	15,172		1,128		13,698 13,829	11,421 11,421	1,157	15,172		1,128	13,698 13,829	11,421 11,421	1,157 1,152

											Diurnal				Influent		Influent											20 d Ava	20 d Ava	20 d Ava
Date	Butte	CSU	Precip?	Min Influent	Max Influent	Avg Influent	Min % of	Min % of	Avg % of	Flow Outlier	Diurnal Peak		7-d Avg of Avg Flow,		Influent BOD	BOD/TSS	Influent NH3-N	Avg Inf	Avg Inf BOD Load,	Avg Inf	Load Outlier	30-d Avg of TSS				non-SN BOD Load,			30-d Avg of non-SN	
Date	Break?	Break?	ricup:		d Flow, mgd		Avg	Max	Max	Туре	Factor (DPF)	Flow, mgd		mg/L	Conc., mg/L	Ratio	Conc., mg/L	ppd	ppd	ppd	Туре			Load, ppd		ppd	ppd	TSS Load, ppd	BOD Load, ppd	NH3-N Load, ppd
1/8/2010	TRUE	TRUE	TRUE	3.61	7.79	6.35	57%	46%	81%		1.23	6.9	6.6	243.00	207.00	0.85		12,861	10,956			13,891	11,353	1,152	12,861	10,956		13,891	11,353	1,152
1/9/2010	TRUE	TRUE	TRUE	3.08	7.95	6.41	48%	39%	81%		1.24	6.9	6.6	2 10100	207100	0.03		22,002	10,550			13,891	11,353	1,152	12,001	20,550		13,891	11,353	1,152
1/10/2010 1/11/2010	TRUE TRUE	TRUE TRUE	FALSE TRUE	3.10 4.20	8.70 8.80	6.57 7.01	47% 60%	36% 48%	76% 80%		1.32 1.26	6.9 6.9	6.6 6.6	189.00			20.44	11,050		1,195		13,809 13,487	11,353 11,353	1,110 1,127	11,050		1,195	13,809 13,487	11,353 11,353	1,110 1,127
1/12/2010	TRUE	TRUE	TRUE	4.19	8.66	7.82	54%	48%	90%	AvgMax	1.11	6.9	6.6	198.00	177.00	0.89	20.44	12,908	11,539	1,133		13,449	11,380	1,127	12,908	11,539	1,133	13,449	11,380	1,127
1/13/2010	TRUE	TRUE	TRUE	5.30	9.32	7.74	68%	57%	83%	MinMax	1.20	6.9	6.6	167.00	172.00	1.04		10.510	10.000			13,449	11,380	1,127	10.510	10.000		13,449	11,380	1,127
1/14/2010 1/15/2010	TRUE TRUE	TRUE TRUE	FALSE FALSE	4.42 3.98	9.08 8.66	7.55 7.33	59% 54%	49% 46%	83% 85%		1.20 1.18	6.8 6.8	6.8 6.9	167.00 228.00	173.00	1.04		10,510 13,936	10,888			13,409 13,221	11,318 11,274	1,127 1,127	10,510 13,936	10,888		13,409 13,221	11,318 11,274	1,127 1,127
1/16/2010	TRUE	TRUE	TRUE	3.82	9.34	6.93	55%	41%	74%		1.35	6.8	7.0					-,				13,221	11,274	1,127	.,			13,221	11,274	1,127
1/17/2010	TRUE TRUE	TRUE TRUE	TRUE TRUE	4.05 6.38	11.05	8.35 11.14	49% 57%	37% 46%	76% 80%		1.32 1.25	6.8	7.3 8.0									13,073	11,274	1,113				13,073	11,274	1,113
1/18/2010 1/19/2010	TRUE	TRUE	TRUE	7.18	13.96 13.65	11.14	60%	53%	80%	AvgMax	1.25	6.9 6.9	8.3	258.00				25,670			TSS	13,155 13,155	11,184 11,184	1,113 1,113	24,870			13,155 13,155	11,184 11,184	1,113 1,113
1/20/2010	TRUE	TRUE	TRUE	8.53	14.56	12.44	69%	59%	85%	MinMax	1.17	6.9	8.3	123.00				12,757				13,012	11,184	1,113	12,757			13,012	11,184	1,113
1/21/2010 1/22/2010	TRUE TRUE	TRUE TRUE	TRUE FALSE	8.46 7.70	13.27 13.30	11.88 10.82	71% 71%	64% 58%	90% 81%	rgMinMaxAv inAvgMinM	1.12 1.23	6.9 6.9	8.3 8.4	114.00 155.00	138.00	0.89	10.71	11,297 13,987	12,453	1,061		12,890 12,890	11,184 11,366	1,103 1,105	11,297 13,987	12,453	1,061	12,890 12,890	11,184 11,366	1,103 1,105
1/23/2010	TRUE	TRUE	TRUE	4.50	12.20	9.05	50%	37%	74%	IIIAvgiviiiivi	1.35	7.0	8.9	133.00	138.00	0.83		13,367	12,433			12,765	11,347	1,105	13,367	12,433		12,765	11,347	1,105
1/24/2010	TRUE	TRUE	TRUE	5.47	12.00	9.22	59%	46%	77%		1.30	7.1	9.4									12,765	11,347	1,105				12,765	11,347	1,105
1/25/2010 1/26/2010	TRUE FALSE	TRUE FALSE	TRUE TRUE	5.80 8.73	14.61 13.69	12.12 11.45	48% 76%	40% 64%	83% 84%	inAvgMinM	1.21 1.20	7.4 7.4	10.4 10.1	190.00 171.00	135.00	0.79		19,197 16,331	12,893			13,225 13,432	11,347 11,568	1,105 1,105	19,197 16,331	12,893		13,225 13,432	11,347 11,568	1,105 1,105
1/27/2010	FALSE	FALSE	FALSE	6.33	11.63	9.06	70%	54%	78%	MinAvg	1.28	7.5	10.1	171.00	133.00	0.73		10,551	12,033			13,432	11,568	1,105	10,551	12,055		13,432	11,568	1,105
1/28/2010	FALSE	FALSE	FALSE	5.98	11.70	9.88	61%	51%	84%		1.18	7.6	10.1	222.00	476.00	0.70	11.06	47.622	42.000	911		13,432	11,568	1,066	47.622	42.000	911	13,432	11,568	1,066
1/29/2010 1/30/2010	FALSE FALSE	FALSE FALSE	FALSE TRUE	5.81 5.81	10.82 11.70	9.48 9.38	61% 62%	54% 50%	88% 80%	AvgMax	1.14 1.25	7.6 7.7	10.1 9.9	223.00	176.00	0.79		17,622	13,908			13,694 13,790	12,005 12,005	1,066 1,066	17,622	13,908		13,694 13,790	12,005 12,005	1,066 1,066
1/31/2010	FALSE	FALSE	FALSE	5.14	11.38	9.19	56%	45%	81%		1.24	7.8	10.0									13,830	12,005	1,074				13,830	12,005	1,074
2/1/2010	FALSE	FALSE	TRUE	5.22	10.71	9.06	58%	49%	85%		1.18	8.0	9.9	257.00	170.00	1.00		19,425	12.715			14,203	12,005	1,074	19,425	42.745		14,203	12,005	1,074
2/2/2010 2/3/2010	FALSE FALSE	FALSE FALSE	TRUE TRUE	5.14	10.67	8.57 7.43	60%	48%	80%	'gMinMaxA	1.25 0.00	8.1 8.1	9.2 9.2	165.00	178.00	1.08		11,786	12,715			14,052 14,052	12,094 12,094	1,074 1,074	11,786	12,715		14,052 14,052	12,094 12,094	1,074 1,074
2/4/2010	FALSE	FALSE	TRUE	4.53	11.07	9.19	49%	41%	83%		1.20	8.3	9.2	197.00			15.04	15,101		1,153		14,181	12,094	1,090	15,101		1,153	14,181	12,094	1,090
2/5/2010 2/6/2010	FALSE FALSE	FALSE FALSE	TRUE TRUE	6.89 7.08	14.60 13.53	10.29 11.04	67% 64%	47% 52%	71% 82%		1.42 1.23	8.4 8.6	9.3 9.5	225.00	187.00	0.83		19,317	16,054			14,579	12,676	1,090 1,090	19,317	16,054		14,579 14,579	12,676 12,676	1,090 1,090
2/7/2010	FALSE	FALSE	TRUE	6.78	12.09	10.01	68%	56%	83%	MinMax	1.23	8.7	9.6									14,579 14,539	12,676 12,676	1,090				14,579	12,676	1,090
2/8/2010	FALSE	FALSE	TRUE	5.86	11.30	10.00	59%	52%	88%	AvgMax	1.13	8.9	9.6	159.00				13,261				14,566	12,921	1,080	13,261			14,566	12,921	1,080
2/9/2010 2/10/2010	FALSE FALSE	FALSE FALSE	TRUE FALSE	4.87 6.31	13.98 12.20	9.30 9.20	52% 69%	35% 52%	67% 75%		1.50 1.33	9.0 9.1	9.7 9.8	154.00	132.00	0.86	8.56	11,945	10,238	657		14,402 14,402	12,586 12,586	1,080 995	11,945	10,238	657	14,402 14,402	12,586 12,586	1,080 995
2/11/2010	FALSE	FALSE	FALSE	4.68	12.04	9.10	51%	39%	76%		1.32	9.3	9.7	275.00	196.00	0.71	0.50	20,871	14,875	037	TSS	14,625	12,840	946	20,871	14,875	037	14,625	12,840	946
2/12/2010	FALSE	FALSE	TRUE	6.65	9.99	8.29	80%	67%	83%	inAvgMinM	1.20	9.3	9.8	209.00				14,457				14,729	13,003	946	14,457			14,729	13,003	946
2/13/2010 2/14/2010	FALSE FALSE	FALSE FALSE	FALSE FALSE	6.09 5.39	9.18 9.15	9.74 7.55	63% 71%	66% 59%	106% 83%	inMaxAvgM inAvgMinM	0.94 1.21	9.3 9.4	9.7 9.2									14,729 15,030	13,003 13,305	946 946				14,729 15,030	13,003 13,305	946 946
2/15/2010	FALSE	FALSE	FALSE	4.64	10.07	6.83	68%	46%	68%		1.47	9.3	8.6									15,114	13,305	946				15,114	13,305	946
2/16/2010	FALSE	FALSE	FALSE	5.18	9.86	8.24	63%	53%	84%		1.20	9.4	8.5	193.00				13,270				14,982	13,305	946	13,270			14,982	13,305	946
2/17/2010 2/18/2010	FALSE FALSE	FALSE FALSE	FALSE FALSE	4.86 4.82	9.48 11.28	7.01 7.72	69% 62%	51% 43%	74% 68%		1.35 1.46	9.3 9.1	8.1 7.8	308.00			14.33	19,841		923		14,982 15,306	13,305 13,305	946 941	19,841		923	14,982 15,306	13,305 13,305	946 941
2/19/2010	FALSE	FALSE	FALSE	2.71	8.45	7.70	35%	32%		inAvgAvgM	1.10	9.1	7.5	253.00	213.00	0.84		16,243	13,675			15,365	13,351	941		13,675		15,365	13,351	941
2/20/2010	FALSE	FALSE	TRUE FALSE	3.99	10.61	7.36 7.65	54%	38%	69% 78%		1.44	9.0	7.4									15,539 15,842	13,351	941				15,539 15,842	13,351	941
2/21/2010 2/22/2010	FALSE FALSE	FALSE FALSE	FALSE	3.67 3.79	9.77 9.29	7.65 7.82	48% 48%	38% 41%	78% 84%		1.28 1.19	9.0 8.9	7.5 7.5	194.00				12,649				15,842 15,746	13,351 13,480	911 911	12,649			15,842 15,746	13,351 13,480	911 911
2/23/2010	FALSE	FALSE	TRUE	3.66	9.13	8.62	42%	40%	94%	AvgMax	1.06	8.9	7.6	199.00	184.00	0.92		14,313	13,234			15,650	13,449	911		13,234		15,650	13,449	911
2/24/2010 2/25/2010	FALSE FALSE	FALSE FALSE	TRUE FALSE	7.03 6.53	12.00 11.81	9.00 8.26	78% 79%	59% 55%		inAvgMinM inAvgMinM		8.9 8.7	7.5 7.6	178.00			12.74	12,268		878		15,650 15,188	13,449 13,449	911 904	12,268		878	15,650 15,188	13,449 13,449	911 904
2/25/2010	FALSE	FALSE	TRUE	5.60	10.20	8.96	63%	55%		inMaxAvgM		8.7	7.6	157.00	148.00	0.94	12.74	11,732	11,060	0/6		14,882	13,449	904	11,479	10,991	0/0	14,865	13,449	904
2/27/2010	FALSE	FALSE	FALSE	6.00	9.60	8.62	70%	63%	90%	'gMinMaxA'	1.11	8.7	7.6									14,882	13,220	904				14,865	13,211	904
2/28/2010 3/1/2010	FALSE FALSE	FALSE FALSE	FALSE FALSE	6.20 6.30	10.60 10.20	7.60 8.16	82% 77%	58% 62%		inAvgMinM inAvgMinM		8.6 8.6	7.7 7.8	208.00				14,148				14,882 14,650	13,220 13,122	903 903	14,148			14,865 14,633	13,211 13,112	903 903
3/2/2010	FALSE	FALSE	TRUE	6.70	10.20	8.01	84%	61%		inAvgMinM		8.6	#DIV/0!	186.00	143.00	0.77		12,432	9,558			14,512	12,676	903	12,432	9,558		14,496	12,668	903
3/3/2010	FALSE	FALSE	TRUE	6.70	11.20	8.39	80%	60%		inAvgMinM		8.6	#DIV/0!	104.00			13.00	44.024		910		14,512	12,676	904	44.024		910	14,496	12,668	904
3/4/2010 3/5/2010	FALSE FALSE	FALSE FALSE	FALSE FALSE	5.38 5.16	9.67 11.14	7.37 8.04	73% 64%	56% 46%	76% 72%	inAvgMinM	1.31 1.38	8.5 8.5	#DIV/0! 8.0	194.00 187.00				11,921 12,545				14,043 14,090	12,676 12,671	904 904	11,921 12,545			14,027 14,074	12,668 12,661	904 904
3/6/2010	FALSE	FALSE	TRUE	4.83	11.17	7.89	61%	43%	71%		1.42	8.4	8.0					,				14,090	12,671	904	,5 13			14,074	12,661	904
3/7/2010	FALSE	FALSE	FALSE	4.52	8.61	7.65	59%	52%	89%	AvgMax	1.13	8.4	8.0	472.00				42 555				14,023	12,671	842	42.555			14,006	12,661	842
3/8/2010 3/9/2010	FALSE FALSE	FALSE FALSE	TRUE TRUE	4.38 4.59	9.29 9.65	8.76 7.30	50% 63%	47% 48%	94% 76%	AvgMax	1.06 1.32	8.2 8.0	8.0 7.7	172.00 174.00	147.00	0.84		12,566 10,593	8,950			13,573 13,386	12,107 11,656	842 842	12,566 10,593	8,950		13,556 13,371	12,095 11,646	842 842
3/10/2010	FALSE	FALSE	TRUE	4.10	9.28	9.24	44%	44%	100%	AvgMax	1.00	8.0	7.7			2.0			2,350			13,386	11,656	842		2,300		13,371	11,646	842
3/11/2010	FALSE	FALSE	FALSE	2.39	8.87	7.88	30%	27%	89%	inAvgAvgM	1.13	8.0	7.7	219.00			14.70	14,393		966		13,457	11,656	867	14,393		966	13,441	11,646	867

											Diurnal				Influent		Influent											30-d Avg	30-d Avg	30-d Avg
Date	Butte Break?	CSU Break?	Precip?	Min Influent	Max Influent	Avg Influent		Min % of	Avg % of Max	Flow Outlier	Peak Factor		7-d Avg of Avg Flow,		BOD	BOD/TSS	NH3-N	Avg Inf TSS Load,	Avg Inf BOD Load,	Avg Inf NH3 Load,	Load Outlier	30-d Avg of TSS		30-d Avg of NH3-N				of non-SN	of non-SN BOD Load,	of non-SN
	Diedk:	DIEGK:		Flow, mg	d Flow, mg	d Flow, mgd	Avg	Max	IVIAA	Туре	(DPF)	Flow, mgd	mgd	mg/L	Conc., mg/L	Ratio	Conc., mg/L	ppd	ppd	ppd	Туре	Load, ppd	Load, ppd	Load, ppd	ppd	ppd	ppd	ppd	ppd	Load, ppd
3/12/2010 3/13/2010	TRUE TRUE	TRUE TRUE	TRUE FALSE	2.85 2.41	8.86 8.37	7.60 6.98	38% 35%	32% 29%	86% 83%	inAvgAvgM MinAvg	1.17 1.20	7.8 7.7	7.7 7.6	205.00	186.00	0.91		12,994	11,789			13,523 13,523	11,877 11,877	867 919	12,994	11,789		13,507 13,507	11,867 11,867	867 919
3/13/2010	TRUE	TRUE	FALSE	2.41	6.57	6.72	3370	23/0	83/0	rgMinMaxA	0.00	7.6	7.3									13,523	11,378	919				13,507	11,366	919
3/15/2010	TRUE	TRUE	FALSE			6.78				'gMinMaxA'	0.00	7.6	7.3	214.00				12,101				13,376	11,378	919	12,101			13,360	11,366	919
3/16/2010 3/17/2010	TRUE TRUE	TRUE TRUE	FALSE FALSE			6.65 7.22				rgMinMaxAv	0.00	7.6 7.6	7.3 #DIV/0!	181.00	154.00	0.85		10,038	8,541			13,179 13,179	10,972 10,972	919 919	10,038	8,541		13,164 13,164	10,963 10,963	919 919
3/18/2010	TRUE	TRUE	FALSE			6.83				'gMinMaxA'	0.00	7.7	#DIV/0!	109.00				6,209				12,792	10,972	919	6,209			12,778	10,963	919
3/19/2010 3/20/2010	TRUE TRUE	TRUE TRUE	FALSE FALSE	2.67 3.19	7.97 9.17	6.07 6.70	44% 48%	34% 35%	76% 73%		1.31	7.4 7.4	6.1 6.4	210.00			15.78	10,635		799		12,646 12,646	10,972 10,972	895 895	10,635		799	12,632 12,632	10,963 10,963	895 895
3/20/2010	TRUE	TRUE	FALSE	3.15	8.90	6.82	46%	35%	77%		1.31	7.4	6.5									12,222	10,972	888				12,207	10,963	888
3/22/2010	TRUE	TRUE	FALSE	3.31	8.94	7.46	44%	37%	83%		1.20	7.3	6.8	265.00				16,483				12,236	10,522	888	16,483			12,222	10,511	888
3/23/2010 3/24/2010	FALSE FALSE	FALSE FALSE	FALSE TRUE	3.37	9.00	6.79 7.59	50%	37%	75%	rgMinMaxA	1.32 0.00	7.3 7.2	6.8	242.00	229.00	0.95		13,710	12,974			12,318 12,318	10,872 10,872	888 888	13,710	12,974		12,304 12,304	10,862 10,862	888 888
3/25/2010	FALSE	FALSE	TRUE			7.53				'gMinMaxA'	0.00	7.1	6.8	247.00			20.33	15,512		1,277		12,477	10,872	966	15,512		1,277	12,463	10,862	966
3/26/2010 3/27/2010	FALSE FALSE	FALSE FALSE	FALSE FALSE	3.46 3.05	8.99 9.38	6.52 6.95	53% 44%	38% 33%	73% 74%		1.38 1.35	7.1 7.1	6.7 6.9	212.00				11,524				12,322 12,322	10,478 10,478	966 966	11,524			12,308 12,308	10,467 10,467	966 966
3/28/2010	FALSE	FALSE	FALSE	3.12	10.07	7.12	44%	31%	71%		1.41	7.1	6.9									12,322	10,478	988				12,308	10,467	988
3/29/2010	FALSE	FALSE	FALSE	3.28	9.41	7.16	46%	35%	76%		1.31	7.1	7.0									12,363	10,362	988				12,363	10,362	988
3/30/2010 3/31/2010	FALSE FALSE	FALSE FALSE	FALSE FALSE	3.35 3.32	9.35 9.38	7.23 7.10	46% 47%	36% 35%	77% 76%		1.29 1.32	7.1 7.1	7.0 7.0	356.00	239.00	0.67		21,451	14,401		TSS	12,363 12,363	11,035 11,035	988 988	21,451	14,401		12,363 12,363	11,035 11,035	988 988
4/1/2010	FALSE	FALSE	FALSE	3.65	9.22	6.96	52%	40%	75%		1.33	7.1	7.0	221.00			21.12	12,821		1,225		12,280	11,035	1,035	12,821		1,225	12,280	11,035	1,035
4/2/2010 4/3/2010	FALSE FALSE	FALSE FALSE	TRUE FALSE	3.44 3.32	10.37	7.17	48% 48%	33% 36%	69% 75%		1.45	7.1	7.0 7.1	185.00	203.00	1.10		11,061	12,137			12,194	11,465	1,035 1,067	11,061	12,137		12,194	11,465	1,035 1,067
4/4/2010	FALSE	FALSE	FALSE	5.00	9.15 11.50	6.86 7.23	69%	43%	63%		1.33 1.59	7.1 7.1	7.1									12,194 12,212	11,465 11,465	1,067				12,194 12,212	11,465 11,465	1,067
4/5/2010	FALSE	FALSE	FALSE	3.84	9.68	7.95	48%	40%	82%		1.22	7.1	7.2	237.00				15,712				12,423	11,465	1,067	15,712			12,423	11,465	1,067
4/6/2010 4/7/2010	FALSE FALSE	FALSE FALSE	FALSE FALSE	3.68 3.59	9.37 9.32	7.71 7.26	48% 49%	39% 39%	82% 78%		1.22 1.28	7.1 7.1	7.3 7.3	224.00	211.00	0.94		14,398	13,562			12,547 12,547	11,765 11,765	1,067 1,067	14,398	13,562		12,547 12,547	11,765 11,765	1,067 1,067
4/8/2010	FALSE	FALSE	FALSE	3.65	8.97	7.55	48%	41%	84%		1.19	7.1	7.3	212.00			21.53	13,342		1,355		12,595	11,765	1,124	13,342		1,355	12,595	11,765	1,124
4/9/2010	FALSE	FALSE	FALSE	3.60	9.00	7.42	49%	40%	82%		1.21	7.1	7.4	203.00	203.00	1.00		12,562	12,562			12,718	12,281	1,124	12,562	12,562		12,718	12,281	1,124
4/10/2010 4/11/2010	FALSE FALSE	FALSE FALSE	FALSE TRUE	3.70 3.39	9.20 10.35	7.10 8.47	52% 40%	40% 33%	77% 82%	MinAvg	1.30 1.22	7.1 7.1	7.4 7.5									12,718 12,607	12,281 12,281	1,124 1,164				12,718 12,607	12,281 12,281	1,124 1,164
4/12/2010	FALSE	FALSE	TRUE	5.60	11.83	10.00	56%	47%	85%	J	1.18	7.2	7.9	239.00				19,933				13,069	12,363	1,164	19,933			13,069	12,363	1,164
4/13/2010 4/14/2010	FALSE FALSE	FALSE FALSE	TRUE TRUE	5.96 5.04	11.67 11.50	9.65 9.17	62% 55%	51% 44%	83% 80%		1.21	7.3 7.4	8.1 8.3	218.00	159.00	0.73		17,543	12,795			13,349 13,349	12,425 12,425	1,164 1,164	17,543	12,795		13,349 13,349	12,425 12,425	1,164 1,164
4/15/2010	FALSE	FALSE	FALSE	4.80	10.11	8.37	57%	47%	83%		1.21	7.5	8.5	206.00			14.37	14,383		1,003		13,492	12,425	1,132	14,383		1,003	13,492	12,425	1,132
4/16/2010	FALSE	FALSE	FALSE	4.44	9.87	7.92	56%	45%	80%		1.25	7.5	8.5	243.00	176.00	0.72		16,059	11,631			13,868	12,866	1,132	16,059	11,631		13,868	12,866	1,132
4/17/2010 4/18/2010	FALSE FALSE	FALSE FALSE	FALSE FALSE	3.82 3.90	10.14 10.10	7.61 8.30	50% 47%	38% 39%	75% 82%		1.33	7.5 7.5	8.5 8.7									13,868 14,378	12,866 12,866	1,132 1,132				13,868 14,378	12,866 12,866	1,132 1,132
4/19/2010	FALSE	FALSE	FALSE	4.30	10.00	7.16	60%	43%	72%		1.40	7.5	8.5	190.00			17.91	11,346		1,069		14,426	12,866	1,186	11,346		1,069	14,426	12,866	1,186
4/20/2010 4/21/2010	FALSE FALSE	FALSE FALSE	TRUE TRUE	4.40 4.20	10.20 10.60	9.40 8.98	47% 47%	43% 40%	92% 85%	AvgMax	1.09 1.18	7.6 7.7	8.3 8.2	201.00 220.00	162.00	0.74		15,758 16,477	12,133			14,509 14,625	12,866 12,774	1,186 1,186	15,758 16,477	12,133		14,509 14,625	12,866 12,774	1,186 1,186
4/22/2010	FALSE	FALSE	FALSE	4.80	10.10	8.82	54%	48%	87%	AvgMax	1.15	7.7	8.1	220.00	102.00	0.74		10,477	12,133			14,509	12,774	1,186	10,477	12,133		14,509	12,774	1,186
4/23/2010	FALSE	FALSE	FALSE	4.45	9.89	7.79	57%	45%	79%		1.27	7.7	8.0									14,562	12,746	1,186				14,562	12,746	1,186
4/24/2010 4/25/2010	FALSE FALSE	FALSE FALSE	FALSE FALSE	3.90 3.49	9.98 9.55	7.50 7.29	52% 48%	39% 37%	75% 76%		1.33 1.31	7.7 7.7	7.9 7.8									14,562 14,494	12,746 12,746	1,186 1,163				14,562 14,494	12,746 12,746	1,186 1,163
4/26/2010	FALSE	FALSE	TRUE	3.72	9.34	7.72	48%	40%	83%		1.21	7.7	7.7	319.00				20,549			TSS	14,723	12,746	1,163	20,549			14,723	12,746	1,163
4/27/2010 4/28/2010	FALSE FALSE	FALSE FALSE	TRUE TRUE	4.12 4.06	9.39 9.65	7.74 7.97	53% 51%	44% 42%	82% 83%		1.21 1.21	7.7 7.8	7.8 7.9	221.00	166.00	0.75		14,262	10,713			14,690 14,690	12,492 12,492	1,163 1,163	14,262	10,713		14,690 14,690	12,492 12,492	1,163 1,163
4/28/2010	FALSE	FALSE	TRUE	4.00	5.03	7.36	J1/0	72/0	03/0	rgMinMaxA	0.00	7.8	7.9				34.58			2,121	NH3	14,690	12,492	1,163			2,121	14,690	12,492	1,163
4/30/2010	FALSE	FALSE	FALSE	4.64	8.92	7.33	63%	52%	82%		1.22	7.8	7.6	181.00				11,059				14,448	12,219	1,163	11,059			14,448	12,219	1,163
5/1/2010 5/2/2010	FALSE FALSE	FALSE FALSE	FALSE FALSE	3.48 3.18	9.02 8.16	6.59 6.47	53% 49%	39% 39%	73% 79%		1.37 1.26	7.8 7.8	7.4 7.3									14,448 14,564	12,219 12,219	1,163 1,143				14,448 14,564	12,219 12,219	1,163 1,143
5/3/2010	FALSE	FALSE	FALSE	2.80	7.90	6.35	44%	35%	80%		1.24	7.7	7.2	173.00				9,162				14,428	12,233	1,143	9,162			14,428	12,233	1,143
5/4/2010 5/5/2010	FALSE FALSE	FALSE FALSE	FALSE FALSE	2.53 2.20	9.07 8.50	6.40	40% 34%	28% 26%	71% 75%	MinAvg MinAvg	1.42 1.33	7.8 7.8	7.1 6.9	195.00				10,408				14,428	12,233	1,143	10.409			14,428	12,233	1,143
5/5/2010 5/6/2010	FALSE	FALSE	FALSE	2.20	9.70	6.40 6.40	34%	22%	66%	inAvgMinM	1.52	7.8	6.7	223.00			20.54	11,903		1,096		14,160 13,906	12,233 12,233	1,143 1,131	10,408 11,903		1,096	14,160 13,906	12,233 12,233	1,143 1,131
5/7/2010	FALSE	FALSE	FALSE	3.39	6.87	6.52	52%	49%	95%	AvgMax	1.05	7.8	6.7	235.00	196.00	0.83		12,779	10,658			13,798	11,749	1,131	12,779	10,658		13,798	11,749	1,131
5/8/2010 5/9/2010	FALSE FALSE	FALSE FALSE	FALSE FALSE	3.43	7.83	6.30	54%	44%	80%	rgMinMaxA	1.24	7.8 7.8	6.4 6.4									13,798 13,831	11,749 11,749	1,131 1,056				13,798 13,831	11,749 11,749	1,131 1,056
5/10/2010	FALSE	FALSE	TRUE							'gMinMaxA'		7.8	6.3	203.00			23.08					13,929	11,586	1,056				13,929	11,586	1,056
5/11/2010	FALSE FALSE	FALSE FALSE	FALSE FALSE							rgMinMaxAv		7.8	6.3 6.3	123.00	160.00	1.30						13,929	11,586	1,056				13,929	11,586	1,056
5/12/2010 5/13/2010	FALSE	FALSE	FALSE							rgMinMaxA		7.8 7.7	6.3	234.00								13,929 13,428	11,586 11,586	1,056 1,056				13,929 13,428	11,586 11,586	1,056 1,056

Part											-1	Diurnal	22.14	7.10		Influent		Influent					20.14	20.14	20.14	co.i	CN	CN1	30-d Avg	30-d Avg	30-d Avg
Part	Date			Precip?	Min Influent	Max Influent	Avg Influent	Min % of			Flow Outlier								Avg Inf TSS Load,	Avg Inf BOD Load,	Avg Inf NH3 Load,	Load Outlier									
Profess Prof		Break?	Break?		Flow, mgd	Flow, mgd	l Flow, mgd	Avg	Max	Max	Туре		Flow, mgd	mgd	mg/L		Ratio		ppd	ppd	ppd	Туре	Load, ppd	Load, ppd	Load, ppd	ppd	ppd	ppd			
Section Sect											•				184.00								•								•
Mathematical Content of Math														6.3																	
Part											•				108.00			22.90						•							
Section Sect											ū				221.00	190.00	0.86						•	•						•	
1															190.00																
Part											ū												•	•	•				•		
Professor Prof											'gMinMaxA'													•	•						
Property															105.00																,
Section Mode											•					203.00	1.12							•	-					•	
Section Teal																															
Part							C 45					0.00		"D" //Q1		264.00	0.07	20.92	44524	44.040						44524	44040				
Section Part Table Tab											Ü			•	270.00	261.00	0.97		14,524	14,040			•	•	-	14,524	14,040			•	
Act																															,
Mary	5/31/2010		TRUE				6.21				رgMinMaxA ،	0.00	6.4	#DIV/0!									11,755	12,349	1,096				11,755	12,349	
Section Table Table Table Table Table Section Table Table Table Table Section Table											U			•	184.00	183.00	0.99		9,438	9,386			•	•		9,438	9,386		•		
Part															188.00			20.00	9.831		1.046					9.831		1.046			
Mary											0			•		212.00	1.03	20.00	•	10,909	2,0 .0		•	•	•	•	10,909	2,010	•		
57/2010 THE											0			•										•	•				•		
May															162.00			20.42	0 502		1 076					0 502		1.076			
Section Fig. Fig. Fig. Section											0			•				20.42			1,076		•	•	-	•		1,076		•	-
Section Part																			-,							-,					,
51/1/200 THE T											J																				
State Stat											ū		· .	-	229.00				11,/0/				•	•	•	11,/0/				•	-
61-55/2010 THUE TRUE FALSE A.56 A.57 A.58 A.57 A.58					3.41	7.95		58%	43%	74%	giviiiiviaxA																				,
61/47/2010 THUE T					3.45		6.15		44%	78%			6.0	6.0	180.00				9,232				10,651	11,445		9,232			10,651		,
Second Column Second Colum															215.00	183.00	0.85		11,153	9,493				•		11,153	9,493				
																		20.51			1.059							1.059			
FAST															190.00	161.00	0.85	20.01	8,589	7,278	1,000		•	•	•	8,589	7,278	2,000	•		,
											U													•	•				•		
Formal F															196.00																,
6/32/2010 TRUE TRUE FAISE 5.88											U							16.71					•	•	,				•		•
6/26/2010 TRUE TRUE FALSE 3.35 5.93 5.86 57% 56% 56% 56% 56% 57% 52% 52% 56% 56% 56% 56% 56% 56% 56% 56% 56% 56	6/23/2010						5.88				rgMinMaxA	0.00	6.0	6.0																	
6/28/2010 TRUE TRUE FALSE 5.74								53 0/	070/	550/	'gMinMaxA'				242.22					0.400						40.400	0.400				,
6/72/2010 TRUE TRUE FALSE 3.35 5.93 5.86 5.7% 5.6% 99% in/Max/wg/M 0.01 6.0 5.9 5.9 0.04.00 10.016 10.017 9.234 1.060 10.016 10.017 9.234 1.060 10.016 10.017 9.234 1.060 1.060 1.060 1.0616 1.060 1.0616 1.060 1.0616 1.060 1.0616 1.060 1.0616 1.060 1.0616 1.060 1.0616 1.060 1.0616 1.060 1.060 1.0616 1.060 1.0616 1.060 1.0616 1.060 1.0616 1.060 1.0616 1.060 1.0616 1.060 1.0616 1.060 1.060 1.0616 1.060 1.					3.37	9.06		5/%	3/%	65%	ισΜinΜayΔ)				212.00	185.00	0.87		10,432	9,103						10,432	9,103				-
6/8/2/1010 TRUE TRUE FALSE 3.45 6.20 6.24 54% 54% 101% AvgNax 0.99 6.0 5.9 204.00 10.616 10.177 9.234 1.060 10.616 10.177 9.234 1.060 6/29/2010 TRUE TRUE FALSE 3.46 6.13 6.20 55% 55% 101% AvgNax 1.01 6.0 5.9 10.00 10.00 1.21 4.447 5.378 TSS 10.177 8.591 1.060 4.447 5.378 10.177 8.591 1.060 6/30/2010 TRUE TRUE FALSE 3.40 6.26 6.19 55% 54% 99% AvgNax 1.01 6.0 5.9 172.00 20.12 8.779 1.027 10.070 8.591 1.050 4.447 5.378 10.177 8.591 1.060 10.070 8.591 1.050 8.700					3.35	5.93		57%	56%	99%																					
6/30/2010 TRUE TRUE FALSE 3.40 6.26 6.19 55% 54% 99% AvgMax 1.01 6.0 5.9 7/1/2010 TRUE TRUE FALSE 3.36 6.32 6.12 55% 53% 97% AvgMax 1.03 6.0 5.9 172.00 7/2/2010 TRUE TRUE FALSE 3.39 9.40 6.02 56% 36% 64% 1.56 6.0 6.0 261.00 166.00 0.64 13,104 8,334 10,352 8,416 1,052 13,104 8,334 10,352 8,416 1,052 7/3/2010 TRUE TRUE FALSE 3.39 9.40 6.02 56% 36% 64% 1.55 5.9 5.6 7/4/2010 TRUE TRUE FALSE 3.39 9.02 5.89 58% 38% 65% 1.53 5.9 5.7 7/5/2010 TRUE TRUE FALSE 3.39 9.02 5.89 58% 38% 65% 1.53 5.9 5.7 7/7/2010 TRUE TRUE FALSE 3.39 8.83 6.04 56% 38% 68% 1.46 5.9 5.8 7/8/2010 TRUE TRUE FALSE 3.39 8.83 6.04 56% 38% 68% 1.46 5.9 5.8 7/8/2010 TRUE TRUE FALSE 3.40 8.99 6.06 55% 38% 68% 1.46 5.9 5.8 7/8/2010 TRUE TRUE FALSE 3.40 8.80 5.75 66% 38% 66% 1.53 5.9 5.8 7/8/2010 TRUE TRUE FALSE 3.40 8.80 6.06 55% 38% 66% 1.53 5.9 5.8 7/8/2010 TRUE TRUE FALSE 3.40 8.80 6.06 55% 38% 66% 1.53 5.9 5.8 7/8/2010 TRUE TRUE FALSE 3.40 8.87 1.054 1.0554	6/28/2010																														
7/1/2010 TRUE TRUE FALSE 3.36 6.32 6.12 55% 53% 97% AvgMax 1.03 6.0 5.9 172.00 20.12 8,779 1,0070 8,591 1,052 8,779 1,0070 8,591 1,052 7/2/2010 TRUE TRUE FALSE 3.39 9.40 6.02 56% 36% 64% 1.56 6.0 6.0 261.00 166.00 0.64 13,104 8,334 10,352 8,416 1,052 13,104 8,334 10,352 8,416 1,052 7/4/2010 TRUE TRUE FALSE 3.31 8,85 5.54 60% 37% 63% 1.60 6.0 5.8 1.60 6.0 5.8 10,352 8,416 1,052 13,104 8,334 10,352 8,416 1,052 13,104 8,334 10,352 8,416 1,052 10,352 10,352 10,352 10,352 10,352 10,352 10											•				86.00	104.00	1.21		4,447	5,378		TSS				4,447	5,378				-
7/2/2010 TRUE TRUE FALSE 3.39 9.40 6.02 56% 36% 64% 1.56 6.0 6.0 261.00 166.00 0.64 13.104 8.334 10.352 8.416 1.052 13.104 8.334 10.352 8.416 10.552 13.104 8.334 10.352 8.416 10.552 13.104 8.334 10.352 8.416 10.552 13.104 8.334 10.352 8.416 10.552 13.104 8.334 10.352 8.416 10.552 13.10															172.00			20.12	8,779		1,027					8,779		1,027			
7/4/2010 TRUE FALSE 3.16 8.08 5.20 61% 39% 64% 1.55 5.9 5.6 7/5/2010 TRUE TRUE FALSE 3.39 9.02 5.89 58% 38% 65% 1.53 5.9 5.7 249.00 178.00 0.71 12,585 8,996 10,565 8,097 1,054 1,																166.00	0.64			8,334							8,334				
7/5/2010 TRUE TRUE FALSE 3.39 9.02 5.89 58% 38% 65% 1.53 5.9 5.7 249.00 178.00 0.71 12,585 8,996 10,565 8,097 1,054 12,585 8,9																									-						-
7/6/2010 TRUE TRUE FALSE 3.35 8.99 6.06 55% 37% 67% 1.48 5.9 5.7 249.00 178.00 0.71 12,585 8,996 10,565 8,097 1,054 12,585 8,996 10,585 8,097 1,054 12,585 8,996 10,585 8,097 1,054 12,585 8,996 10,585 8,097 1,054 12,585 8,996 10,585 8,097 1,054 12,585 8,996 10,585 8,097 1,054 12,585 8,996 10,585 8,097 1,054 12,585 8,996 10,585 8,097 1,054 12,585 8,996 10,585 8,097 1,054 12,585 8,996 10,585 8,097 1,054 12,585 8,996 10,585 8,097 1,054 12,585 8,996 10,585 8,097 1,054 12,585 8,996 10,585 8,097 1,054 12,585 8,996 10,585 8,097 1,054 12,585 8,996 10,585 8,097 1,054 12,585 8,996 10,585 8,097 1,054 12,585 8,996 10,585 8,097 1,054 12,585 8,996 10,585 8,097 1,054 12,585 8,996 10,585 8,097 1,054 12,585 8,996 10,585 8,097 1,054 12,585 8,996 12,054 12,054 12,054 12,054 12,054 12,054 12,054 12,054 12,054 12,054 12,054 12,054 12,054 12,054 12,054 12,054 12,054 12,054																															
7/7/2010 TRUE TRUE FALSE 3.39 8.83 6.04 56% 38% 68% 1.46 5.9 5.8 95.8 97.8 1,054 1,056 8,097 1,054 1,056 8,097 1,054 1,056 8,097 1,054 1,056 8,097 1,054 1,056 8,097 1,054 1,056 8,097 1,054 1,056 8,097 1,054 1,056 8,097 1,054 1,056 8,097 1,054 1,056 8,097 1,054 1,056 8,097 1,054 1,056 8,097 1,054 1,056 8,097 1,054 1,056 8,097 1,054 1,056 8,097 1,054 1,056 8,097 1,056 8,097 1,066 1,066 14,071 1,113 11,021 8,097 1,066 1,066 1,066 1,058 8,097 1,066 1,066 1,066 1,066 1,058 8,071 1,066 1,058 8,377 1,066 1,070 1,071 1,071															249.00	178.00	0.71		12,585	8,996						12,585	8,996				
7/9/2010 TRUE TRUE FALSE 3.91 8.19 6.00 65% 48% 73% 1.37 5.9 5.9 245.00 201.00 0.82 12,260 10,058 11,221 8,377 1,066 12,260 10,058 11,221 8,377 1,066 7/10/2010 TRUE TRUE FALSE 3.47 9.28 5.75 60% 37% 62% 1.61 5.9 5.8 11,221 8,377 1,066 12,260 10,058 11,221 8,377 1,066 7/11/2010 TRUE TRUE FALSE 3.40 8.70 5.70 60% 39% 66% 1.53 5.9 5	7/7/2010	TRUE	TRUE	FALSE	3.39	8.83	6.04	56%	38%	68%		1.46	5.9	5.8									10,565	8,097	1,054				10,565	8,097	1,054
7/10/2010 TRUE TRUE FALSE 3.47 9.28 5.75 60% 37% 62% 1.61 5.9 5.8 11,221 8,377 1,066 11,221 8,377 1,066 7/11/2010 TRUE TRUE FALSE 3.40 8.70 5.70 60% 39% 66% 1.53 5.9 5.9 7/12/2010 TRUE TRUE FALSE 3.40 8.80 6.06 56% 39% 69% 1.45 5.9 6.0 192.00 9,704 10,957 8,377 1,066 9,704 10,957 8,377 1,066 7/13/2010 TRUE TRUE FALSE 3.40 8.90 6.08 56% 38% 68% 1.46 5.9 6.0 127.00 113.00 0.89 6,440 5,730 10,580 8,046 1,066 6,440 5,730 10,580 8,046 1,058 8,046 1,058 8,046 1,058 8,046 1,058 8,046 1,058 8,046 1,058 8,046 1,058 8,046 1,058 8,046 1,0																201.00	0.02	21.59		10.050	1,113						10.050	1,113			
7/11/2010 TRUE TRUE FALSE 3.40 8.70 5.70 60% 39% 66% 1.53 5.9 5.9 7/12/2010 TRUE TRUE FALSE 3.40 8.80 6.06 56% 39% 69% 1.45 5.9 6.0 192.00 9,704 10,957 8,377 1,066 9,704 10,957 8,377 1,066 7/13/2010 TRUE TRUE FALSE 3.40 8.90 6.08 56% 38% 68% 1.46 5.9 6.0 127.00 113.00 0.89 6,440 5,730 10,580 8,046 1,066 6,440 5,730 10,580 8,046 1,066 7/14/2010 TRUE TRUE FALSE 3.40 8.90 6.04 56% 38% 68% 1.47 5.9 6.0 127.00 113.00 0.89 6,440 5,730 10,580 8,046 1,066 7/14/2010 TRUE TRUE FALSE 3.40 8.90 6.04 56% 38% 68% 1.47 5.9 6.0															245.00	201.00	0.82		12,260	10,058						12,260	10,058				-
7/13/2010 TRUE TRUE FALSE 3.40 8.90 6.08 56% 38% 68% 1.46 5.9 6.0 127.00 113.00 0.89 6,440 5,730 10,580 8,046 1,066 6,440 5,730 10,580 8,046 1,066 10,580 8,046 1,066 10,580 8,046 1,066 10,580 8,046 1,066 1,0580 8,046 1,06																															•
7/14/2010 TRUE TRUE FALSE 3.40 8.90 6.04 56% 38% 68% 1.47 5.9 6.0																			•												
															127.00	113.00	0.89		6,440	5,730						6,440	5,730				
	7/14/2010 7/15/2010	TRUE	TRUE	FALSE	3.40	8.90	6.04	56%	38% 39%	70%		1.47	5.9	6.0	255.00			22.29	12,867		1,125		10,580	8,046 8,046	1,066	12,867		1,125	10,580	8,046 8,046	1,066

										- 1	Diurnal	22.14			Influent		Influent					20.14	20.14	20.14	C21	CN	CN	30-d Avg	30-d Avg	30-d Avg
Date	Butte Break?	CSU Break?	Precip?	Min Influent	Max Influent	Avg Influent		Min % of		Flow Outlier	Peak		7-d Avg of Avg Flow,	TSS Conc.,	BOD	BOD/TSS		Avg Inf TSS Load,	Avg Inf BOD Load,	Avg Inf NH3 Load,	Load Outlier	of TSS		30-d Avg of NH3-N				of non-SN	of non-SN	of non-SN
	Dieakt	DIEdKI		Flow, mg	d Flow, mgd	l Flow, mgd	Avg	Max	Max	Туре	Factor (DPF)	Flow, mgd	mgd	mg/L	Conc., mg/L	Ratio	Conc., mg/L	ppd	ppd	ppd	Туре	Load, ppd	Load, ppd	Load, ppd	ppd	ppd	ppd	ppd	BOD Load, ppd	NH3-N Load, ppd
7/16/2010	TRUE	TRUE	FALSE	3.39	9.01	5.78	59%	38%	64%		1.56	5.9	5.9	273.00	184.00	0.67		13,160	8,870			11,050	7,968	1,081	13,160	8,870		11,050	7,968	1,081
7/17/2010 7/18/2010	TRUE TRUE	TRUE TRUE	FALSE FALSE	3.50 3.10	8.30 8.50	5.62 5.60	62% 55%	42% 36%	68% 66%		1.48 1.52	5.9 5.8	5.9 5.9									11,050 11,050	7,968 7,968	1,081 1,088				11,050 11,050	7,968 7,968	1,081 1,088
7/19/2010	TRUE	TRUE	FALSE	3.41	7.83	6.03	57%	44%	77%		1.30	5.9	5.9	153.00				7,694				10,976	8,067	1,088	7,694			10,976	8,067	1,088
7/20/2010 7/21/2010	TRUE TRUE	TRUE TRUE	FALSE FALSE	3.57 3.50	7.58 8.55	6.03 6.10	59% 57%	47% 41%	80% 71%		1.26 1.40	5.9 5.9	5.9 5.9	199.00	199.00	1.00		10,008	10,008			10,901 10,901	8,310 8,310	1,088 1,088	10,008	10,008		10,901 10,901	8,310 8,310	1,088 1,088
7/22/2010	TRUE	TRUE	FALSE	3.48	7.11	5.96	58%	49%	84%		1.19	5.9	5.9	210.00	325.00	1.55		10,438	16,155			10,868	9,181	1,088	10,438	16,155		10,868	9,181	1,088
7/23/2010	TRUE	TRUE	FALSE	3.50	7.40	5.92	59%	47%	80%		1.25	5.9	5.9	219.00			20.71	10,813		1,023		10,865	9,181	1,072	10,785		1,023	10,863	9,181	1,072
7/24/2010 7/25/2010	TRUE TRUE	TRUE TRUE	FALSE FALSE	3.60 3.35	7.80 7.59	5.75 5.63	63% 60%	46% 44%	74% 74%		1.36 1.35	5.9 5.9	5.9 5.9									10,865 10,865	9,181 9,181	1,072 1,072				10,863 10,863	9,181 9,181	1,072 1,072
7/26/2010	TRUE	TRUE	FALSE	3.39	8.09	6.07	56%	42%	75%		1.33	5.9	5.9	197.00				9,973				10,834	9,191	1,072	9,973			10,832	9,191	1,072
7/27/2010 7/28/2010	TRUE TRUE	TRUE TRUE	FALSE FALSE	3.45 3.41	8.12 8.51	6.06 6.02	57% 57%	42% 40%	75% 71%		1.34 1.41	5.9 5.9	5.9 5.9	201.00 234.00			21.90	10,159 11,748		1,107		10,792 10,848	9,191 9,191	1,079 1,079	10,159 11,748		1,107	10,790 10,847	9,191 9,191	1,079 1,079
7/29/2010	TRUE	TRUE	FALSE	3.47	7.74	6.03	58%	45%	78%		1.28	5.9	5.9	233.00				11,718				10,913	9,191	1,079	11,718			10,911	9,191	1,079
7/30/2010	TRUE	TRUE	FALSE	3.45	6.32	6.01	57%	55%	95%	AvgMax	1.05	5.9	5.9	207.00	259.00	1.25		10,376	12,982			10,883	10,142	1,079	10,376	12,982		10,882	10,142	1,079
7/31/2010 8/1/2010	TRUE TRUE	TRUE TRUE	FALSE FALSE	3.45 3.30	6.21 8.39	5.73 5.71	60% 58%	56% 39%	92% 68%	inMaxAvgM	1.08 1.47	5.9 5.9	5.9 5.9									10,883 11,007	10,142 10,142	1,079 1,092				10,882 11,005	10,142 10,142	1,079 1,092
8/2/2010	TRUE	TRUE	FALSE	3.38	8.79	6.03	56%	38%	69%		1.46	5.9	6.0	188.00				9,455				10,792	10,400	1,092	9,455			10,791	10,400	1,092
8/3/2010	TRUE	TRUE	FALSE	3.51	8.09	6.07	58%	43%	75%		1.33	5.9	6.0	235.00	228.00	0.97		11,897	11,542			10,853	10,543	1,092	11,897	11,542		10,852	10,543	1,092
8/4/2010 8/5/2010	TRUE TRUE	TRUE TRUE	FALSE FALSE	3.43 3.40	8.65 8.64	6.07 6.04	57% 56%	40% 39%	70% 70%		1.43 1.43	5.9 5.9	6.0	248.00	280.00	1.13		12,493	14,105			10,853 10,940	10,543 10,938	1,092 1,092	12,493	14,105		10,852 10,938	10,543 10,938	1,092 1,092
8/6/2010	TRUE	TRUE	FALSE	3.42	7.74	6.02	57%	44%	78%		1.29	5.9	6.0				21.08	,	,	1,058		10,848	11,181	1,085	,	,	1,058	10,847	11,181	1,085
8/7/2010 8/8/2010	TRUE TRUE	TRUE TRUE	FALSE FALSE	4.09 3.38	8.04 9.52	5.82 5.86	70% 58%	51% 36%	72% 62%	MinAvg	1.38 1.62	5.9 5.9	6.0 6.0	218.00				10,654				10,848 10,659	11,181 11,181	1,085 1,078	10,654			10,847 10,657	11,181 11,181	1,085 1,078
8/9/2010	TRUE	TRUE	FALSE	3.30	8.70	6.21	53%	38%	71%		1.40	5.9	6.0	147.00				7,613				10,039	11,342	1,078	7,613			10,037	11,342	1,078
8/10/2010	TRUE	TRUE	FALSE	3.43	6.65	6.27	55%	52%	94%	AvgMax	1.06	5.9	6.0	128.00	181.00	1.41		6,693	9,465			10,205	11,107	1,078	6,693	9,465		10,204	11,107	1,078
8/11/2010 8/12/2010	TRUE TRUE	TRUE TRUE	FALSE FALSE	3.33 3.33	6.65 6.67	6.30 6.32	53% 53%	50% 50%	95% 95%	AvgMax AvgMax	1.06 1.06	6.0 6.0	6.0 6.0	136.00			20.15	7,168		1,062		10,205 10,072	11,107 11,107	1,078 1,075	7,168		1,062	10,204 10,070	11,107 11,107	1,078 1,075
8/13/2010	TRUE	TRUE	FALSE	3.40	8.20	6.03	56%	41%	74%	Avgiviux	1.36	5.9	6.0	692.00	403.00	0.58	20.13	34,801	20,267	1,002	TSS	10,274	12,924	1,075	34,801	20,267	1,002	10,272	12,924	1,075
8/14/2010	TRUE	TRUE	FALSE	3.30	8.60	5.93	56%	38%	69%		1.45	5.9	6.0									10,274	12,924	1,075				10,272	12,924	1,075
8/15/2010 8/16/2010	TRUE TRUE	TRUE TRUE	FALSE FALSE	3.26 3.45	8.59 7.28	6.09 6.34	54% 54%	38% 47%	71% 87%	AvgMax	1.41 1.15	5.9 6.0	6.0 6.1	168.00				8,883				10,121 9,870	12,924 13,503	1,062 1,062	8,883			10,120 9,868	12,924 13,503	1,062 1,062
8/17/2010	TRUE	TRUE	FALSE	3.33	8.62	6.34	53%	39%	74%	711B111UN	1.36	6.0	6.1	404.00	200.00	0.50		21,362	10,575		TSS	9,870	13,137	1,062	21,362	10,575		9,868	13,137	1,062
8/18/2010	TRUE	TRUE	FALSE	3.46	6.77	6.38	54%	51%	94%	AvgMax	1.06	6.0	6.1	100.00			20.22	10.025		4.070		9,870	13,137	1,062	10.025		4.070	9,868	13,137	1,062
8/19/2010 8/20/2010	TRUE TRUE	TRUE TRUE	FALSE FALSE	3.41 3.42	8.18 9.28	6.40 6.42	53% 53%	42% 37%	78% 69%		1.28 1.45	6.0	6.2 6.2	188.00 223.00	124.00	0.56	20.22	10,035 11,940	6,639	1,079		10,007 10,121	13,137 12,716	1,066 1,066	10,035 11,940	6,639	1,079	10,006 10,119	13,137 12,716	1,066 1,066
8/21/2010	TRUE	TRUE	FALSE	3.41	10.19	6.31	54%	33%	62%		1.61	6.0	6.2						,			10,121	12,716	1,066	,	,		10,119	12,716	1,066
8/22/2010 8/23/2010	TRUE TRUE	TRUE TRUE	FALSE FALSE	3.41 3.35	9.02 6.94	6.35 6.45	54% 52%	38% 48%	70% 93%	AvgMax	1.42 1.08	6.1 6.1	6.3 6.4	154.00				8,284				10,101 9,943	12,225	1,066 1,077	8,284			10,099 9,943	12,225	1,066 1,077
8/24/2010	FALSE	FALSE	FALSE	3.43	9.72	6.45	53%	35%	66%	Avgiviax	1.51	6.1	6.4	171.00				9,199				9,899	12,225 12,225	1,077	9,199			9,899	12,225 12,225	1,077
8/25/2010	FALSE	FALSE	FALSE	3.32	9.84	6.56	51%	34%	67%		1.50	6.1	6.4									9,899	12,225	1,077				9,899	12,225	1,077
8/26/2010 8/27/2010	FALSE FALSE	FALSE FALSE	FALSE FALSE	3.32 3.52	9.79 6.73	6.53 5.08	51% 69%	34% 52%	67% 75%		1.50 1.32	6.2 6.1	6.4 6.2	184.00 259.00			21.18	10,021 10,973		1,153		9,902 9,950	12,225 12,225	1,092 1,088	10,021 10,973		1,153	9,902 9,950	12,225 12,225	1,092 1,088
8/28/2010	FALSE	FALSE	FALSE	5.52	0.73	4.48	3370	J2/0	, 5/0	′gMinMaxA	0.00	6.1	6.2	233.00				10,573				9,838	12,225	1,088	10,573			9,838	12,225	1,088
8/29/2010	FALSE	FALSE	FALSE	3.01	6.30	4.44	68%	48%	70%		1.42	6.0	5.9	160.60				0.767				9,712	12,225	1,088	0.767			9,712	12,225	1,088
8/30/2010 8/31/2010	FALSE FALSE	FALSE FALSE	FALSE FALSE	3.26 3.36	9.85 8.06	6.57 6.53	50% 51%	33% 42%	67% 81%		1.50 1.23	6.1 6.1	5.9 6.0	160.00 182.00				8,767 9,912				9,605 9,624	12,099 12,099	1,088 1,088	8,767 9,844			9,605 9,620	12,099 12,099	1,088 1,088
9/1/2010	FALSE	FALSE	FALSE	3.26	7.68	6.50	50%	42%	85%		1.18	6.1	6.0	190.00				10,300				9,664	12,099	1,088	10,300			9,660	12,099	1,088
9/2/2010	FALSE	FALSE	FALSE	3.37	6.39	6.68	50%	53%	105%	AvgMax	0.96	6.1	5.9	202.00			20.19	11,254		1,125		9,770	12,099	1,096	11,254		1,125	9,766	12,099	1,096
9/3/2010 9/4/2010	FALSE FALSE	FALSE FALSE	FALSE FALSE	3.42 3.38	9.82 10.09	6.53 6.28	52% 54%	35% 33%	66% 62%		1.50 1.61	6.1 6.2	5.9 6.1	221.00				12,036				9,778 9,778	12,210 12,210	1,096 1,096	12,036			9,774 9,774	12,210 12,210	1,096 1,096
9/5/2010	FALSE	FALSE	FALSE	3.30	9.57	5.96	55%	34%	62%		1.61	6.2	6.1									9,608	11,737	1,096				9,604	11,737	1,096
9/6/2010 9/7/2010	FALSE FALSE	FALSE FALSE	FALSE FALSE	3.16 3.36	9.46 6.77	7.93 4.71	40% 71%	33% 50%	84% 70%	MinAvg MinAvg	1.19 1.44	6.2 6.2	6.4 6.4									9,608 9,608	11,737 11,737	1,105 1,105				9,604 9,604	11,737 11,737	1,105 1,105
9/8/2010	FALSE	FALSE	TRUE	3.29	9.35	7.19	46%	35%	70%	IVIIIIAVE	1.30	6.2	6.5	271.00				16,250				9,958	11,737	1,105	16,250			9,954	11,737	1,105
9/9/2010	FALSE	FALSE	TRUE	3.34	9.39	6.89	48%	36%	73%		1.36	6.3	6.6	243.00			20.29	13,963		1,166		10,355	11,737	1,117	13,963		1,166	10,351	11,737	1,117
9/10/2010 9/11/2010	FALSE FALSE	FALSE FALSE	FALSE FALSE	3.38 3.33	10.01 9.89	6.76 6.36	50% 52%	34% 34%	68% 64%		1.48 1.56	6.3 6.3	6.6 6.6	217.00	197.00	0.91		12,234	11,107			10,701 10,701	12,147 12,147	1,117 1,117	12,234	11,107		10,697 10,697	12,147 12,147	1,117 1,117
9/12/2010	FALSE	FALSE	FALSE	3.25	10.31	6.34	51%	32%	61%		1.63	6.3	6.6									10,937	12,147	1,117				10,932	12,147	1,131
9/13/2010	FALSE	FALSE	FALSE	3.35	9.96	6.63	51%	34%	67%		1.50	6.3	6.7	186.00				10,285				10,896	9,440	1,131	10,285			10,892	9,440	1,131
9/14/2010 9/15/2010	FALSE FALSE	FALSE FALSE	FALSE FALSE	3.28 3.37	10.14 9.68	6.61 6.58	50% 51%	32% 35%	65% 68%		1.53 1.47	6.3 6.4	6.7 6.7	269.00				14,762				10,896 11,123	9,440 9,440	1,131 1,131	14,762			10,892 11,119	9,440 9,440	1,131 1,131
9/16/2010	FALSE	FALSE	FALSE	3.34	9.42	6.58	51%	35%	70%		1.43	6.4	6.6				22.74	,		1,248		11,263	9,440	1,154	,		1,248	11,259	9,440	1,154

				Min	May	Δνσ				Flow	Diurnal	20 d Ava	7 d Avg of	Influent	Influent		Influent	Avg Inf	Avalnf	Avalnf	Load	20 d Ava	20 d Avg	20 d Ava	non SN	non-SN	non SN	30-d Avg	30-d Avg	30-d Avg
Date	Butte Break?	CSU Break?	Precip?	Min Influent	Max Influent	Avg Influent		Min % of Max	Avg % of Max	Flow Outlier	Peak Factor	30-d Avg of Avg		TSS Conc.,	BOD Conc	BOD/TSS Ratio	NH3-N Conc.,	Avg Inf TSS Load,	Avg Inf BOD Load,	Avg Inf NH3 Load,	Load Outlier	of TSS				BOD Load,			of non-SN BOD Load,	
	Dieak:	Dieak:		Flow, mg	d Flow, mgc	Flow, mgd	Avg	IVIQA	IVIGA	Туре	(DPF)	Flow, mgd	mgd	mg/L	mg/L	Natio	mg/L	ppd	ppd	ppd	Туре	Load, ppd	Load, ppd	Load, ppd	ppd	ppd	ppd	ppd	ppd	Load, ppd
9/17/2010	FALSE	FALSE	FALSE	2.23	10.24	6.57	34%	22%		inAvgMinM	1.56	6.4	6.6	224.00	256.00	1.14		12,274	14,027			11,323	10,591	1,154	12,274	14,027		11,319	10,591	1,154
9/18/2010 9/19/2010	FALSE FALSE	FALSE FALSE	FALSE TRUE	2.15 3.37	10.03 9.80	6.32 6.44	34% 52%	21% 34%	63% 66%	inAvgMinM	1.59 1.52	6.4 6.4	6.5 6.5									11,323 11,403	10,591 10,591	1,154 1,173				11,319 11,399	10,591 10,591	1,154 1,173
9/20/2010	FALSE	FALSE	TRUE	3.31	9.72	6.66	50%	34%	69%		1.46	6.4	6.6	144.00				7,998				11,157	12,567	1,173	7,998			11,153	12,567	1,173
9/21/2010 9/22/2010	FALSE FALSE	FALSE FALSE	FALSE FALSE	3.38 3.36	9.45 9.38	6.65 6.62	51% 51%	36% 36%	70% 71%		1.42 1.42	6.4 6.4	6.6 6.6	215.00	185.00	0.86		11,924	10,260			11,202 11,202	11,798 11,798	1,173 1,173	11,924	10,260		11,198 11,198	11,798 11,798	1,173 1,173
9/23/2010	FALSE	FALSE	FALSE	3.33	9.41	6.54	51%	35%	70%		1.44	6.4	6.6	214.00			20.22	11,672		1,103		11,401	11,798	1,159	11,672		1,103	11,397	11,798	1,159
9/24/2010	FALSE	FALSE	FALSE	3.40	9.20	6.50	52%	37%	71%		1.42	6.4	6.6	162.00	229.00	1.41		8,782	12,414			11,377	11,952	1,159	8,782	12,414		11,373	11,952	1,159
9/25/2010 9/26/2010	FALSE FALSE	FALSE FALSE	FALSE FALSE	3.40 3.31	9.30 8.79	6.22 6.21	55% 53%	37% 38%	67% 71%		1.50 1.42	6.4 6.4	6.5 6.5									11,377 11,462	11,952 11,952	1,159 1,160				11,373 11,457	11,952 11,952	1,159 1,160
9/27/2010	FALSE	FALSE	FALSE	3.40	9.20	6.54	52%	37%	71%		1.41	6.4	6.5	192.00				10,472				11,430	11,952	1,160	10,339			11,418	11,952	1,160
9/28/2010	FALSE	FALSE	FALSE	3.38	9.57	6.54	52%	35%	68%		1.46	6.4	6.5	236.00	194.00	0.82		12,872	10,581			11,515	11,678	1,160	12,872	10,581		11,503	11,678	1,160
9/29/2010 9/30/2010	FALSE FALSE	FALSE FALSE	FALSE FALSE	3.41 3.35	9.52 9.73	6.53 6.69	52% 50%	36% 34%	69% 69%		1.46 1.45	6.5 6.5	6.5 6.5				23.91			1,334		11,515 11,687	11,678 11,678	1,160 1,195			1,334	11,503 11,674	11,678 11,678	1,160 1,195
10/1/2010	FALSE	FALSE	FALSE	3.41	9.74	6.44	53%	35%	66%		1.51	6.5	6.5	263.00				14,126				11,950	11,678	1,195	14,126			11,942	11,678	1,195
10/2/2010 10/3/2010	FALSE FALSE	FALSE FALSE	FALSE FALSE	3.31 3.30	9.77 9.80	6.24 6.36	53% 52%	34% 34%	64% 65%		1.57 1.54	6.5 6.5	6.4 6.4									12,060	11,678 11,678	1,195 1,213				12,051 12,108	11,678 11,678	1,195 1,213
10/4/2010	FALSE	FALSE	FALSE	3.30	9.40	6.78	49%	35%	72%		1.39	6.5	6.5	181.00				10,235				12,118 11,989	11,678	1,213	10,235			11,980	11,678	1,213
10/5/2010	FALSE	FALSE	FALSE	3.40	9.40	7.71	44%	36%	82%		1.22	6.6	6.7	225.00				14,468				12,155	11,678	1,213	14,468			12,146	11,678	1,213
10/6/2010 10/7/2010	FALSE FALSE	FALSE FALSE	TRUE FALSE	3.30 3.40	9.30 9.40	6.81 6.72	48% 51%	35% 36%	73% 71%		1.37 1.40	6.6 6.6	6.7 6.7	212.00			17.69	11,881		991		12,155 12,137	11,678 11,678	1,213 1,168	11,881		991	12,146 12,129	11,678 11,678	1,213 1,168
10/8/2010	FALSE	FALSE	FALSE	3.30	9.30	6.65	50%	35%	72%		1.40	6.6	6.7	216.00	211.00	0.98	17.03	11,980	11,702	331		12,128	11,682	1,168	11,980	11,702	331	12,120	11,682	1,168
10/9/2010	FALSE	FALSE	FALSE	3.39	9.48	6.40	53%	36%	68%		1.48	6.6	6.7									11,871	11,682	1,168				11,862	11,682	1,168
10/10/2010 10/11/2010	FALSE FALSE	FALSE FALSE	FALSE FALSE	3.48 3.41	9.37 9.36	5.94 6.70	59% 51%	37% 36%	63% 72%		1.58 1.40	6.6 6.6	6.7 6.7	191.00			25.65	10,673		1,433		11,731 11,627	11,682 11,797	1,169 1,222	10,673		1,433	11,722 11,618	11,682 11,797	1,169 1,222
10/12/2010	FALSE	FALSE	FALSE	3.44	9.28	6.69	51%	37%	72%		1.39	6.6	6.7	198.00	232.00	1.17	23.03	11,047	12,944	1,100		11,591	11,988	1,222	11,047	12,944	1,433	11,582	11,988	1,222
10/13/2010	FALSE	FALSE	FALSE	3.43	9.29	6.70	51%	37%	72%		1.39	6.6	6.6					10.000				11,591	11,988	1,222				11,582	11,988	1,222
10/14/2010 10/15/2010	FALSE FALSE	FALSE FALSE	FALSE FALSE	3.48 3.41	9.40 9.40	6.74 6.66	52% 51%	37% 36%	72% 71%		1.39 1.41	6.6 6.6	6.6 6.6	230.00 256.00				12,929 14,219				11,756 11,901	11,988 11,988	1,222 1,222	12,929 14,219			11,748 11,893	11,988 11,988	1,222 1,222
10/16/2010	FALSE	FALSE	FALSE	3.34	9.97	6.43	52%	34%	64%		1.55	6.6	6.5					,				11,722	11,988	1,222	,			11,714	11,988	1,222
10/17/2010	FALSE	FALSE	TRUE	3.39	10.56	6.66	51%	32%	63%		1.59	6.6	6.6	240.00				12 514				11,722	11,988	1,215	12 511			11,714	11,988	1,215
10/18/2010 10/19/2010	FALSE FALSE	FALSE FALSE	FALSE FALSE	3.40 3.35	9.86 10.37	6.85 6.76	50% 50%	34% 32%	69% 65%		1.44 1.53	6.6 6.6	6.7 6.7	219.00 246.00	230.00	0.93		12,511 13,869	12,967			11,737 11,862	11,580 11,812	1,215 1,215	12,511 13,869	12,967		11,729 11,854	11,580 11,812	1,215 1,215
10/20/2010	FALSE	FALSE	FALSE	3.37	9.83	6.74	50%	34%	69%		1.46	6.6	6.7					,	,			11,862	11,812	1,215	,			11,854	11,812	1,215
10/21/2010 10/22/2010	FALSE FALSE	FALSE FALSE	FALSE TRUE	3.39	9.98 9.97	7.30 6.64	46% 51%	34% 34%	73% 67%		1.37	6.6 6.6	6.8 6.8	261.00 245.00	225.00	0.02	23.63	15,890	12.460	1,439		12,327	11,812	1,260 1,260	15,890 13,568	12.460	1,439	12,319	11,812	1,260 1,260
10/23/2010	FALSE	FALSE	TRUE	3.41 3.50	11.07	6.91	51%	32%	62%		1.50 1.60	6.6	6.8	245.00	223.00	0.92		13,568	12,460			12,423 12,423	12,178 12,178	1,260	15,506	12,460		12,415 12,415	12,178 12,178	1,260
10/24/2010	FALSE	FALSE	TRUE	3.51	12.87	8.39	42%	27%	65%	MinAvg	1.53	6.6	6.8									12,470	12,178	1,299				12,462	12,178	1,299
10/25/2010 10/26/2010	FALSE FALSE	FALSE FALSE	FALSE FALSE	3.66 3.54	11.32 10.45	7.71 7.26	47% 49%	32% 34%	68% 69%		1.47 1.44	6.7 6.7	7.0 7.0	199.00	201.00	1.01		12,049	12,170			12,716 12,674	12,131 12,138	1,299 1,299	12,049	12,170		12,707 12,666	12,131 12,138	1,299 1,299
10/27/2010	FALSE	FALSE	TRUE	3.44	10.43	7.41	46%	32%	69%		1.44	6.8	7.1	133.00	201.00	1.01		12,043	12,170			12,674	12,138	1,299	12,043	12,170		12,666	12,138	1,299
10/28/2010	FALSE	FALSE	FALSE	3.44	10.23	7.01	49%	34%	69%		1.46	6.8	7.2	242.00			26.57	14,148		1,553		12,904	12,138	1,350	14,148		1,553	12,904	12,138	1,350
10/29/2010 10/30/2010	FALSE FALSE	FALSE FALSE	TRUE TRUE	3.58 3.64	10.23 10.33	7.21 7.22	50% 50%	35% 35%	70% 70%		1.42 1.43	6.8 6.8	7.2 7.2	177.00				10,643				12,765 12,765	12,449 12,449	1,350 1,350	10,643			12,765 12,765	12,449 12,449	1,350 1,350
10/31/2010	FALSE	FALSE	FALSE	3.43	10.33	6.84	50%	31%	62%		1.60	6.8	7.2									12,765	12,449	1,354				12,765	12,449	1,354
11/1/2010	FALSE	FALSE	FALSE	3.40	9.99	6.90	49%	34%	69%		1.45	6.8	7.2	138.00	200.00	0.01		7,941	44 :00			12,378	12,449	1,354	7,941	44 :00		12,378	12,449	1,354
11/2/2010 11/3/2010	FALSE FALSE	FALSE FALSE	FALSE FALSE	3.38 3.44	9.95 9.81	6.85 6.80	49% 51%	34% 35%	69% 69%		1.45 1.44	6.9 6.9	7.1 7.0	238.00	200.00	0.84		13,597	11,426			12,450 12,450	12,278 12,278	1,354 1,354	13,597	11,426		12,450 12,450	12,278 12,278	1,354 1,354
11/4/2010	FALSE	FALSE	FALSE	3.42	10.08	6.77	51%	34%	67%		1.49	6.9	7.0	224.00			25.23	12,647		1,425		12,592	12,278	1,368	12,647		1,425	12,592	12,278	1,368
11/5/2010	FALSE	FALSE	FALSE	3.40	9.80	6.67	51%	35%	68%		1.47	6.8	6.9	236.00	208.00	0.88		13,128	11,571			12,513	12,177	1,368	13,128	11,571		12,513	12,177	1,368
11/6/2010 11/7/2010	FALSE FALSE	FALSE FALSE	FALSE TRUE	3.40 3.58	9.80 10.83	7.73 7.54	44% 47%	35% 33%	79% 70%		1.27 1.44	6.9 6.9	7.0 7.0									12,513 12,552	12,177 12,177	1,368 1,462				12,513 12,552	12,177 12,177	1,368 1,462
11/8/2010	FALSE	FALSE	TRUE	3.49	11.37	7.41	47%	31%	65%		1.53	6.9	7.1	209.00			20.30	12,916		1,255		12,611	12,256	1,421	12,916		1,255	12,611	12,256	1,421
11/9/2010	FALSE	FALSE	TRUE	3.49	11.03	7.18	49%	32%	65%		1.54	6.9	7.1	213.00	177.00	0.83		12,755	10,599			12,619	12,020	1,421	12,755	10,599		12,619	12,020	1,421
11/10/2010 11/11/2010	FALSE FALSE	FALSE FALSE	TRUE FALSE	3.43 3.31	10.44 10.10	6.80 6.81	50% 49%	33% 33%	65% 67%		1.54 1.48	7.0 7.0	7.1 7.1									12,619 12,741	12,020 12,020	1,421 1,418				12,619 12,741	12,020 12,020	1,421 1,418
11/12/2010	FALSE	FALSE	FALSE	3.41	6.39	6.57	52%	53%	103%	AvgMax	0.97	7.0	7.2	224.00				12,274				12,818	11,865	1,418	12,274			12,818	11,865	1,418
11/13/2010 11/14/2010	FALSE	FALSE	FALSE	3.47	10.34	6.37	54% 51%	34%	62%		1.62	7.0	7.1									12,818	11,865	1,418				12,818	11,865	1,418
11/14/2010	FALSE FALSE	FALSE FALSE	FALSE FALSE	3.31 3.37	10.38 10.16	6.46 6.49	51% 52%	32% 33%	62% 64%		1.61 1.57	7.0 7.0	6.9 6.8	201.00				10,879				12,810 12,588	11,865 11,865	1,418 1,418	10,879			12,810 12,588	11,865 11,865	1,418 1,418
11/16/2010	FALSE	FALSE	FALSE	3.40	9.40	6.48	52%	36%	69%		1.45	7.0	6.7									12,588	11,865	1,418				12,588	11,865	1,418
11/17/2010	FALSE	FALSE	FALSE	3.40	9.40	6.56	52%	36%	70%		1.43	7.0	6.6	239.00	221.00	0.92		13,076	12,091			12,618	11,898	1,418	13,076	12,091		12,618	11,898	1,418
11/18/2010	FALSE	FALSE	FALSE	3.40	9.70	6.60	52%	35%	68%		1.47	6.9	6.5	234.00				12,880				12,641	11,898	1,418	11,615			12,562	11,898	1,418

											Diurnal				Influent		Influent											30-d Avg	30-d Avg	30-d Avg
Date	Butte	CSU	Precip?	Min Influent	Max Influent	Avg Influent		Min % of		Flow Outlier	Peak		7-d Avg of Avg Flow,	Influent TSS Conc.,	BOD	BOD/TSS	NH3-N	Avg Inf TSS Load,	Avg Inf BOD Load,	Avg Inf NH3 Load,	Load Outlier	30-d Avg of TSS				non-SN BOD Load,		of non-SN	of non-SN	of non-SN
	Break?	Break?		Flow, mg	d Flow, mg	d Flow, mgd	Avg	Max	Max	Туре	Factor (DPF)	Flow, mgd	mgd	mg/L	Conc., mg/L	Ratio	Conc., mg/L	ppd	ppd	ppd	Туре	Load, ppd	Load, ppd	Load, ppd	ppd	ppd	ppd	TSS Load, ppd	BOD Load, ppd	NH3-N Load, ppd
11/19/2010	FALSE	TRUE	TRUE	3.42	10.12	6.52	52%	34%	64%		1.55	6.9	6.5	212.00				11,528				12,495	11,719	1,418	11,528			12,416	11,719	1,418
11/20/2010 11/21/2010	FALSE FALSE	TRUE TRUE	TRUE FALSE	3.33 3.65	11.03 10.92	7.22 7.00	46% 52%	30% 33%	65% 64%		1.53 1.56	7.0 6.9	6.6 6.7									12,495 12,269	11,719 11,719	1,418 1,411				12,416 12,184	11,719 11,719	1,418 1,411
11/22/2010	FALSE	TRUE	FALSE	3.67	10.06	6.74	54%	36%	67%		1.49	6.9	6.7	197.00			19.16	11,074		1,077		12,102	11,571	1,327	11,074		1,077	12,018	11,571	1,327
11/23/2010 11/24/2010	FALSE TRUE	TRUE TRUE	FALSE FALSE	3.39 3.45	9.77 9.79	6.57 6.46	52% 53%	35% 35%	67% 66%		1.49 1.52	6.9 6.9	6.7 6.7	198.00 200.00	211.00	1.06		10,849 10,775	11,368			12,024 11,951	11,571 11,537	1,327 1,327	10,849 10,775	11,368		11,945 11,876	11,571 11,537	1,327 1,327
11/25/2010	TRUE	TRUE	FALSE	3.34	9.95	5.68	59%	34%	57%	AvgMax	1.75	6.9	6.7	200.00	211.00	1.00		10,773	11,500			11,951	11,537	1,327	10,773	11,500		11,876	11,537	1,327
11/26/2010	TRUE	TRUE	FALSE	3.34	9.13	5.87	57%	37%	64%		1.56	6.8	6.6									11,944	11,411	1,327				11,865	11,411	1,327
11/27/2010 11/28/2010	TRUE TRUE	TRUE TRUE	TRUE TRUE	3.53 3.43	10.60 10.50	6.65 6.75	53% 51%	33% 33%	63% 64%		1.59 1.56	6.8	6.6 6.6									11,944 11,798	11,411 11,411	1,327 1,252				11,865 11,713	11,411 11,411	1,327 1,252
11/29/2010	TRUE	TRUE	FALSE	3.44	9.83	6.85	50%	35%	70%		1.44	6.8	6.6	160.00	143.00	0.89		9,141	8,169			11,697	10,871	1,252	9,141	8,169		11,613	10,871	1,252
11/30/2010	FALSE FALSE	FALSE FALSE	FALSE FALSE	3.53 3.39	10.24	6.89	51% 50%	34%	67%		1.49	6.8	6.6 6.6	240.00	195.00	0.81		13,791	11,205			11,828	10,918	1,252 1,252	13,791	11,205		11,749	10,918	1,252
12/1/2010 12/2/2010	FALSE	FALSE	TRUE	3.39	9.90 9.80	6.75 6.89	50%	34% 35%	68% 70%		1.47 1.42	6.8 6.8	6.7	267.00			26.30	15,343		1,511		11,828 12,291	10,918 10,918	1,252	15,343		1,511	11,749 12,212	10,918 10,918	1,252 1,317
12/3/2010	FALSE	FALSE	TRUE	3.47	10.61	7.35	47%	33%	69%		1.44	6.8	6.8	264.00	200.00	0.76		16,183	12,260	,		12,452	11,038	1,317	16,183	12,260	,	12,373	11,038	1,317
12/4/2010 12/5/2010	FALSE FALSE	FALSE FALSE	TRUE TRUE	3.60 3.75	10.98 12.64	7.17 8.84	50% 42%	33% 30%	65% 70%		1.53 1.43	6.8 6.9	6.9 7.2									12,452 12,439	11,038 11,038	1,317 1,281				12,373 12,355	11,038 11,038	1,317 1,281
12/5/2010	FALSE	FALSE	TRUE	2.76	13.13	9.34	30%	21%		inAvgMinM	1.43	6.9	7.2									12,439	10,949	1,281				12,355	10,949	1,281
12/7/2010	FALSE	FALSE	FALSE	4.12	11.76	7.90	52%	35%	67%		1.49	6.9	7.4	191.00	170.00	0.89	21.53	12,584	11,201	1,419		12,403	10,985	1,315	12,584	11,201	1,419	12,319	10,985	1,315
12/8/2010 12/9/2010	FALSE FALSE	FALSE FALSE	TRUE TRUE	4.04 3.97	11.60 11.84	8.27 8.10	49% 49%	35% 34%	71% 68%		1.40 1.46	6.9 6.9	7.6 7.8	198.00				13,376				12,403 12,434	10,985 10,985	1,315 1,336	13,376			12,319 12,349	10,985 10,985	1,315 1,336
12/10/2010	FALSE	FALSE	FALSE	3.79	11.13	7.73	49%	34%	69%		1.44	7.0	7.9	164.00	196.00	1.20		10,573	12,636			12,288	11,276	1,336	10,573	12,636		12,204	11,276	1,336
12/11/2010	FALSE	FALSE	FALSE	3.70	11.49	7.34	50%	32%	64%		1.57	7.0	7.9									12,288	11,276	1,336				12,204	11,276	1,336
12/12/2010 12/13/2010	FALSE FALSE	FALSE FALSE	FALSE TRUE	3.55 3.59	11.13 10.34	7.19 7.19	49% 50%	32% 35%	65% 70%		1.55 1.44	7.0 7.0	7.9 7.7	139.00				8,335				12,288 12,026	11,276 11,276	1,336 1,336	8,335			12,204 11,941	11,276 11,276	1,336 1,336
12/14/2010	FALSE	FALSE	TRUE	3.71	10.68	7.54	49%	35%	71%		1.42	7.0	7.7	186.00	206.00	1.11		11,696	12,954			12,005	11,485	1,336	11,696	12,954		11,926	11,485	1,336
12/15/2010	FALSE	FALSE	FALSE	3.58	10.68	7.40	48%	34%	69%		1.44	7.1	7.6									12,005	11,485	1,336				11,926	11,485	1,336
12/16/2010 12/17/2010	FALSE TRUE	FALSE TRUE	FALSE TRUE	3.54 3.51	10.34 10.50	7.23 7.49	49% 47%	34% 33%	70% 71%		1.43 1.40	7.1 7.1	7.5 7.4	211.00			24.16	13,180		1,457		12,080 12,149	11,485 11,485	1,366 1,366	13,180		1,457	11,996 12,070	11,485 11,485	1,366 1,366
12/18/2010	TRUE	TRUE	TRUE	3.92	12.33	7.92	49%	32%	64%		1.56	7.2	7.4	211.00				13,100				12,087	11,399	1,366	13,100			12,003	11,399	1,366
12/19/2010	TRUE	TRUE	TRUE	4.05	13.04	8.33	49%	31%	64%		1.57	7.2	7.5									12,031	11,399	1,366				12,031	11,399	1,366
12/20/2010 12/21/2010	TRUE TRUE	TRUE TRUE	TRUE TRUE	6.39 6.30	10.70 11.65	8.30 8.95	77% 70%	60% 54%	78% 77%	inAvgMinM MinAvg	1.29 1.30	7.3 7.3	7.6 7.7	150.00 151.00			9.85	10,383 11,271		735		11,949 11,904	11,399 11,399	1,366 1,240	10,383 11,271		735	11,949 11,904	11,399 11,399	1,366 1,240
12/22/2010	TRUE	TRUE	TRUE	6.39	14.34	9.90	65%	45%	69%	141117148	1.45	7.4	8.0	145.00	143.00	0.99	3.03	11,972	11,807	733		11,908	11,450	1,240	11,972	11,807	,33	11,908	11,450	1,240
12/23/2010	TRUE	TRUE	TRUE	5.87	13.90	8.49	69%	42%	61%		1.64	7.4	8.2									11,964	11,450	1,280				11,964	11,450	1,280
12/24/2010 12/25/2010	TRUE TRUE	TRUE TRUE	FALSE TRUE	3.96 3.75	8.59 8.74	7.62 8.33	52% 45%	46% 43%	89% 95%	AvgMax AvgMax	1.13 1.05	7.5 7.5	8.4 8.7									12,043 12,141	11,450 11,462	1,280 1,280				12,043 12,141	11,450 11,462	1,280 1,280
12/26/2010	TRUE	TRUE	FALSE	4.40	12.50	8.80	50%	35%	70%	7.12.11.u.x	1.42	7.6	8.9									12,141	11,462	1,280				12,141	11,462	1,280
12/27/2010	TRUE	TRUE	FALSE	4.90	8.80	8.46	58%	56%		inMaxAvgM	1.04	7.6	9.1	139.00				9,807				11,974	11,462	1,280	9,383			11,944	11,462	1,280
12/28/2010 12/29/2010	TRUE TRUE	TRUE TRUE	TRUE FALSE	3.90 6.70	15.30 14.10	9.69 10.07	40% 67%	25% 48%	63% 71%	MinAvg	1.58 1.40	7.7 7.8	9.1 9.3	152.00 154.00	143.00	0.93		12,284 12,934	12,010			11,995 12,053	11,462 11,530	1,280 1,280	12,284 12,934	12,010		11,966 12,027	11,462 11,530	1,280 1,280
12/30/2010	TRUE	TRUE	FALSE	4.90	12.50	8.78	56%	39%	70%		1.42	7.9	9.0	150.00			10.68	10,984	_,	782		12,168	12,010	1,181	10,984	_,0	782	12,142	12,010	1,181
12/31/2010	TRUE	TRUE	FALSE	4.91	12.58	7.82	63%	39%	62%		1.61	7.9	8.9									12,060	12,144	1,181				12,032	12,144	1,181
1/1/2011 1/2/2011	TRUE TRUE	TRUE TRUE	FALSE FALSE	4.41 4.40	12.15 13.00	7.98 8.87	55% 50%	36% 34%	66% 68%		1.52 1.47	8.0 8.1	8.7 8.7									12,060 11,826	12,144 12,144	1,181 1,098				12,032 11,796	12,144 12,144	1,181 1,098
1/3/2011	TRUE	TRUE	FALSE	4.49	11.68	8.47	53%	38%	73%		1.38	8.1	8.7	168.00				11,867				11,518	12,121	1,098	11,867			11,487	12,121	1,098
1/4/2011 1/5/2011	TRUE TRUE	TRUE TRUE	FALSE FALSE	4.45 3.65	10.91 10.98	8.04 7.64	55% 48%	41% 33%	74% 70%		1.36 1.44	8.2	8.6 8.5	175.00 185.00			17.18	11,734 11,788		1,152		11,532 11,548	12,121 12,121	1,109 1,109	11,734 11,788		1,152	11,504 11,522	12,121 12,121	1,109 1,109
1/6/2011	TRUE	TRUE	TRUE	3.65	10.98	7.54	48% 52%	36%	70%		1.44	8.1 8.1	8.1	174.00	200.00	1.15		10,971	12,610			11,548	12,121	1,109	10,971	12,610		11,522	12,121	1,109
1/7/2011	TRUE	TRUE	TRUE	3.80	10.70	7.30	52%	36%	68%		1.47	8.1	8.0	162.00				9,863				11,354	12,403	1,032	9,863			11,329	12,403	1,032
1/8/2011 1/9/2011	TRUE TRUE	TRUE TRUE	TRUE FALSE	3.70 3.51	11.40 10.92	7.10 7.07	52% 50%	32% 32%	62% 65%		1.61 1.54	8.0 8.0	7.9 7.8									11,354 11,228	12,403 12,403	1,032 1,032				11,329 11,201	12,403 12,403	1,032 1,032
1/9/2011	TRUE	TRUE	FALSE	3.55	10.92	7.07	50%	35%	69%		1.44	7.9	7.6	225.00				13,267				11,228	12,405	1,032	13,267			11,201	12,345	1,032
1/11/2011	TRUE	TRUE	TRUE	3.65	10.23	7.02	52%	36%	69%		1.46	7.9	7.4									11,396	12,345	1,032				11,370	12,345	1,032
1/12/2011 1/13/2011	TRUE TRUE	TRUE TRUE	FALSE TRUE	3.90 3.87	10.10 10.97	6.99 7.60	56% 51%	39% 35%	69% 69%		1.44 1.44	7.9 7.9	7.2 7.2	213.00 209.00	268.00	1.28		12,417 13,247	16,987			11,456 11,745	12,345 13,274	1,032 1,032	12,417 13,247	16,987		11,431 11,720	12,345 13,274	1,032 1,032
1/13/2011	TRUE	TRUE	TRUE	3.96	10.34	7.27	54%	38%	70%		1.42	7.9	7.2	202.00	230.00	1.20	14.87	12,248	10,507	902		11,778	13,353	1,006	12,248	10,507	902	11,753	13,353	1,006
1/15/2011	TRUE	TRUE	FALSE	3.67	11.25	7.08	52%	33%	63%		1.59	7.9	7.2									11,778	13,353	1,006				11,753	13,353	1,006
1/16/2011 1/17/2011	TRUE TRUE	TRUE TRUE	FALSE TRUE	3.58 3.57	10.69 11.19	6.86 7.28	52% 49%	33% 32%	64% 65%		1.56 1.54	7.9 7.9	7.1 7.1									11,778 11,690	13,353 13,353	893 893				11,753 11,663	13,353 13,353	893 893
1/18/2011	TRUE	TRUE	TRUE	3.54	10.16	7.25	50%	35%	70%		1.42	7.9	7.1	207.00	277.00	1.34		12,344	16,518			11,728	13,986	893	12,344	16,518		11,703	13,986	893
1/19/2011	TRUE	TRUE	FALSE	3.63	10.08	6.95	52%	36%	69%		1.45	7.8	7.1									11,728	13,986	893				11,703	13,986	893
1/20/2011	TRUE	TRUE	FALSE	3.61	10.00	6.91	52%	36%	69%		1.45	7.8	7.1	198.00			18.15	11,411		1,046		11,789	13,986	923	11,411		1,046	11,764	13,986	923

											Diurnal				Influent		Influent											20-d Ava	30-d Avg	30-d Avg
Date	Butte	CSU	Precip?	Min Influent	Max Influent	Avg Influent	Min % of	Min % of	Avg % of	Flow Outlier	Peak		7-d Avg of Avg Flow.	Influent TSS Conc.,	BOD	BOD/TSS		Avg Inf TSS Load.	Avg Inf BOD Load,	Avg Inf NH3 Load.	Load Outlier	30-d Avg of TSS		30-d Avg of NH3-N					of non-SN	
	Break?	Break?			d Flow, mgd		Avg	Max	Max	Туре	Factor (DPF)	Flow, mgd		mg/L	Conc., mg/L	Ratio	Conc., mg/L	ppd	ppd	ppd	Туре			Load, ppd		ppd	ppd	TSS Load, ppd	BOD Load, ppd	NH3-N Load, ppd
1/21/2011	TRUE	TRUE	FALSE	3.56	10.23	7.01	51%	35%	69%		1.46	7.7	7.1	210.00	257.00	1.22		12,277	15,025			11,848	14,159	970	12,277	15,025		11,823	14,159	970
1/22/2011 1/23/2011	TRUE TRUE	TRUE TRUE	FALSE FALSE	3.56 3.62	10.76 10.97	6.94 7.05	51% 51%	33% 33%	64% 64%		1.55 1.56	7.6 7.6	7.0 7.0									11,840 11,840	14,630 14,630	970 970				11,814 11,814	14,630 14,630	970 970
1/24/2011	TRUE	TRUE	FALSE	3.44	10.77	7.03	48%	32%	66%		1.52	7.6	7.0	206.00				12,198				11,840	14,630	970	12,198			11,814	14,630	970
1/25/2011	FALSE	FALSE	FALSE	3.58	10.95	7.01	51%	33%	64%		1.56	7.5	7.0	185.00	228.00	1.23		10,816	13,330			11,803	14,413	970	10,816	13,330		11,780	14,413	970
1/26/2011 1/27/2011	FALSE FALSE	FALSE FALSE	FALSE TRUE	3.57 3.46	10.71 10.50	7.05 6.94	51% 50%	33% 33%	66% 66%		1.52 1.51	7.5 7.5	7.0 7.0				24.15			1,398		11,803 11,921	14,413 14,413	970 1,056			1,398	11,780 11,921	14,413 14,413	970 1,056
1/28/2011	FALSE	FALSE	TRUE	3.50	10.55	6.97	50%	33%	66%		1.51	7.5	7.0	238.00	283.00	1.19		13,835	16,451	,		12,012	14,704	1,056	13,835	16,451	,	12,012	14,704	1,056
1/29/2011 1/30/2011	FALSE FALSE	FALSE FALSE	TRUE TRUE	3.50 3.50	10.73 10.60	6.97 7.06	50% 50%	33% 33%	65% 67%		1.54 1.50	7.4 7.3	7.0 7.0									11,954 12,019	15,153 15,153	1,056 1,124				11,954 12,019	15,153 15,153	1,056 1,124
1/31/2011	FALSE	FALSE	FALSE	3.60	11.20	7.11	51%	32%	63%		1.58	7.3	7.0	176.00				10,436				11,920	15,153	1,124	10,436			11,920	15,153	1,124
2/1/2011	FALSE	FALSE	FALSE	3.60	11.00	7.03	51%	33%	64%	A	1.56	7.2	7.0	200.00	286.00	1.43		11,726	16,768			11,909	15,384	1,124	11,726	16,768		11,909	15,384	1,124
2/2/2011 2/3/2011	FALSE FALSE	FALSE FALSE	FALSE FALSE	3.50 3.70	7.50 10.60	6.96 7.12	50% 52%	47% 35%	93% 67%	AvgMax	1.08 1.49	7.2 7.1	7.0 7.0	255.00			17.30	15,142		1,027		11,909 12,101	15,384 15,384	1,124 1,105	15,142		1,027	11,909 12,101	15,384 15,384	1,124 1,105
2/4/2011	FALSE	FALSE	FALSE	3.60	11.85	6.75	53%	30%	57%	AvgMax	1.76	7.1	7.0	297.00	344.00	1.16		16,720	19,365	•		12,394	15,882	1,093	16,720	19,365	•	12,394	15,882	1,093
2/5/2011 2/6/2011	FALSE FALSE	FALSE FALSE	FALSE FALSE	3.44 3.34	10.72 7.56	6.63 6.49	52% 51%	32% 44%	62% 86%	AvgMax	1.62 1.16	7.1 7.1	7.0 7.0									12,432 12,530	15,882 16,349	1,093 1,093				12,432 12,530	15,882 16,349	1,093 1,093
2/7/2011	FALSE	FALSE	FALSE	3.34	6.63	6.63	50%	50%	100%	AvgMax	1.00	7.0	7.0	227.00				12,552				12,709	16,349	1,093	12,552			12,709	16,349	1,093
2/8/2011	FALSE	FALSE	FALSE	3.38	6.92	6.67	51%	49%	96%	AvgMax	1.04	7.0	6.9	200.00	.=			11,126				12,610	16,349	1,093	11,126			12,610	16,349	1,093
2/9/2011 2/10/2011	FALSE FALSE	FALSE FALSE	FALSE FALSE	3.33 3.35	6.67 6.44	6.54 6.37	51% 53%	50% 52%	98% 99%	AvgMax AvgMax	1.02 1.01	7.0 7.0	6.9 6.9	220.00	276.00	1.25	21.73	12,000	15,054	1,154		12,574 12,531	16,187 16,187	1,093 1,105	12,000	15,054	1,154	12,574 12,531	16,187 16,187	1,093 1,105
2/11/2011	FALSE	FALSE	FALSE	3.46	9.88	6.42	54%	35%	65%		1.54	7.0	6.5	209.00	255.00	1.22		11,190	13,653	_,		12,452	15,906	1,105	11,190	13,653	_,	12,452	15,906	1,105
2/12/2011 2/13/2011	FALSE FALSE	FALSE FALSE	FALSE FALSE	3.55 3.31	9.39 9.72	6.38 6.41	56% 52%	38% 34%	68% 66%		1.47 1.52	7.0 6.9	6.5 6.4									12,454	15,906 15,771	1,105 1,105				12,454 12,401	15,906 15,771	1,105 1,105
2/13/2011 2/14/2011	FALSE	FALSE	TRUE	3.52	9.72	6.41	51%	37%	73%		1.37	6.9	6.5	222.00				12,905				12,401 12,445	15,771	1,156	12,905			12,445	15,771	1,105
2/15/2011	FALSE	FALSE	TRUE	3.49	11.06	7.52	46%	32%	68%		1.47	7.0	6.7	217.00	285.00	1.31		13,610	17,874			12,518	16,004	1,156	13,610	17,874		12,518	16,004	1,156
2/16/2011 2/17/2011	FALSE FALSE	FALSE FALSE	TRUE TRUE	3.88 4.24	11.71 13.82	8.41 10.04	46% 42%	33% 31%	72% 73%		1.39 1.38	7.0 7.1	7.0 7.5	209.00			16.75	17,500		1,403		12,518 12,811	16,004 16,004	1,156 1,206	17,500		1,403	12,518 12,811	16,004 16,004	1,156 1,206
2/18/2011	FALSE	FALSE	TRUE	5.21	9.76	9.50	55%	53%	97%	AvgMax	1.03	7.1	7.5	234.00	237.00	1.01	10.75	18,540	18,778	1,403		13,175	16,255	1,206	18,540	18,778	1,403	13,175	16,255	1,206
2/19/2011	FALSE	FALSE	TRUE	4.71	11.53	9.59	49%	41%	83%	A	1.20	7.2	7.9									13,175	16,255	1,206				13,175	16,255	1,206
2/20/2011 2/21/2011	FALSE FALSE	FALSE FALSE	FALSE FALSE	4.43 5.34	9.76 12.56	8.46 8.55	52% 62%	45% 43%	87% 68%	AvgMax	1.15 1.47	7.3 7.3	8.2 8.5									13,286 13,353	16,255 16,409	1,246 1,246				13,286 13,353	16,255 16,409	1,246 1,246
2/22/2011	FALSE	FALSE	FALSE	4.65	10.23	8.05	58%	45%	79%		1.27	7.4	8.7	181.00	224.00	1.24		12,152	15,039			13,278	16,257	1,246	12,152	15,039		13,278	16,257	1,246
2/23/2011 2/24/2011	FALSE FALSE	FALSE FALSE	FALSE TRUE	4.47 4.47	10.24 9.86	7.82 7.76	57% 58%	44% 45%	76% 79%		1.31 1.27	7.4 7.4	8.7 8.6	190.00			17.07	12,296		1,105		13,278 13,284	16,257 16,257	1,246 1,217	12,296		1,105	13,278 13,284	16,257 16,257	1,246 1,217
2/25/2011	FALSE	FALSE	TRUE	3.95	13.42	9.38	42%	29%	70%	MinAvg	1.43	7.5	8.4	114.00	154.00	1.35	17.07	8,918	12,047	1,103		13,165	16,114	1,217	8,918	12,047	1,103	13,165	16,114	1,217
2/26/2011	FALSE	FALSE	FALSE	4.19	12.26	8.45	50%	34%	69%		1.45	7.5	8.4									13,165	16,114	1,217				13,165	16,114	1,217
2/27/2011 2/28/2011	FALSE FALSE	FALSE FALSE	FALSE FALSE	5.36 3.82	11.36 8.49	8.09 7.88	66% 48%	47% 45%	71% 93%	AvgMax	1.40 1.08	7.6 7.6	8.1 8.1	171.00				11,238				13,165 13,003	16,114 16,072	1,172 1,172	11,238			13,165 13,003	16,114 16,072	1,172 1,172
3/1/2011	FALSE	FALSE	TRUE	3.56	11.26	7.83	45%	32%	70%		1.44	7.7	8.0	174.00	249.00	1.43		11,363	16,260			12,907	16,093	1,172	11,363	16,260		12,907	16,093	1,172
3/2/2011	FALSE	FALSE	TRUE	3.80	12.05	8.70	44%	32%	72%		1.39	7.7	8.1	210.00				14 702				12,907	16,093	1,172	14 702			12,907	16,093	1,172
3/3/2011 3/4/2011	FALSE FALSE	FALSE FALSE	FALSE FALSE	4.16 4.12	11.49 10.84	8.44 8.17	49% 50%	36% 38%	73% 75%		1.36 1.33	7.8 7.9	8.2 8.3	210.00 180.00	259.00	1.44	22.79	14,782 12,265	17,648	1,553		13,162 13,194	16,093 16,191	1,172 1,248	14,782 12,265	17,648	1,553	13,162 13,194	16,093 16,191	1,172 1,248
3/5/2011	FALSE	FALSE	TRUE	4.04	11.57	7.85	51%	35%	68%		1.47	7.9	8.2									13,194	16,191	1,248				13,194	16,191	1,248
3/6/2011 3/7/2011	FALSE FALSE	FALSE FALSE	TRUE FALSE	4.30 4.74	12.83 12.40	8.87 8.87	48% 53%	34% 38%	69% 72%		1.45 1.40	8.0 8.0	8.3 8.4	114.00				8,433				13,072 12,554	16,191 15,794	1,304 1,304	8,433			13,072 12,554	16,191 15,794	1,304 1,304
3/8/2011	FALSE	FALSE	FALSE	4.25	11.65	8.21	52%	36%	70%		1.42	8.1	8.4	177.00	254.00	1.44		12,119	17,392			12,529	15,972	1,304	12,119	17,392		12,529	15,972	1,304
3/9/2011	FALSE	FALSE	FALSE	3.99	11.46	7.92	50%	35%	69%		1.45	8.1	8.4	222.00			16.60	15 540		1 111		12,529	15,972	1,304	15.540		1 114	12,529	15,972	1,304
3/10/2011 3/11/2011	FALSE TRUE	FALSE TRUE	TRUE FALSE	3.87 3.97	11.68 10.96	8.00 7.78	48% 51%	33% 36%	68% 71%		1.46 1.41	8.1 8.0	8.3 8.2	233.00 199.00	285.00	1.43	16.69	15,546 12,912	18,492	1,114		12,705 12,810	15,972 16,224	1,266 1,266	15,546 12,912	18,492	1,114	12,705 12,810	15,972 16,224	1,266 1,266
3/12/2011	TRUE	TRUE	FALSE	3.86	10.87	7.15	54%	36%	66%		1.52	8.0	8.1					•	, -			12,861	16,354	1,266	,	, -		12,861	16,354	1,266
3/13/2011 3/14/2011	TRUE TRUE	TRUE TRUE	TRUE FALSE	3.90 4.10	10.90 11.00	7.00 7.21	56% 57%	36% 37%	64% 66%		1.56 1.53	8.0 8.0	8.0 7.8	162.00				9,741				12,861 12,770	16,354 16,691	1,293 1,293	9,741			12,861 12,770	16,354 16,691	1,293 1,293
3/15/2011	TRUE	TRUE	TRUE	4.10	7.90	7.21	57%	56%		inMaxAvgM	1.03	8.1	7.6	237.00				15,141				12,770	16,691	1,293	15,141			12,770	16,691	1,293
3/16/2011	TRUE	TRUE	TRUE	4.10	8.50	7.95	52%	48%	94%	AvgMax	1.07	8.1	7.5	228.00	316.00	1.39	4455	15,117	20,952	005	BOD	13,032	16,691	1,293	15,117	20,952	205	13,032	16,691	1,293
3/17/2011 3/18/2011	TRUE FALSE	TRUE TRUE	TRUE TRUE	4.00 4.13	9.00 12.86	7.55 9.08	53% 45%	44% 32%	84% 71%		1.19 1.42	8.2 8.2	7.4 7.6	217.00 198.00	230.00	1.16	14.21	13,664 14,994	17,417	895		13,074 13,151	16,691 16,634	1,214 1,214	13,664 14.994	17,417	895	13,074 13,151	16,691 16,634	1,214 1,214
3/19/2011	FALSE	TRUE	TRUE	4.78	12.74	9.88	48%	38%	78%		1.29	8.3	8.0			_,		,55 .				13,151	16,634	1,214	,55 .	,		13,151	16,634	1,214
3/20/2011	FALSE	TRUE	TRUE	6.94	11.37	10.49	66%	61%		inMaxAvgM		8.2	8.1	170.00				14.050				12,895	16,634	1,166	14.050			12,895	16,634	1,166
3/21/2011 3/22/2011	FALSE TRUE	TRUE FALSE	TRUE TRUE	5.69 5.42	10.12 9.60	9.91 9.49	57% 57%	56% 56%		inMaxAvgM inMaxAvgM		8.2 8.1	8.4 8.8	170.00 159.00	193.00	1.21		14,050 12,584	15,275			12,631 12,629	16,328 16,196	1,166 1,166	14,050 12,584	15,275		12,631 12,629	16,328 16,196	1,166 1,166
3/23/2011	TRUE	FALSE	TRUE	5.84	10.56	10.02	58%	55%	95%	inMaxAvgM	1.05	8.1	8.8									12,629	16,196	1,166				12,629	16,196	1,166
3/24/2011	TRUE	FALSE	TRUE	5.66	12.07	11.21	50%	47%	93%	AvgMax	1.08	8.1	8.8	100.00			11.17	9,349		1,044		12,456	16,196	1,142	9,349		1,044	12,456	16,196	1,142

											Diurnal				Influent		Influent											30-d Avg	30-d Avg	30-d Avg
Date	Butte	CSU Break?	Precip?	Min Influent	Max Influent	Avg Influent		Min % of		Flow Outlier	Peak		7-d Avg of Avg Flow,	Influent TSS Conc.,	BOD	BOD/TSS	NH3-N	Avg Inf TSS Load,	Avg Inf BOD Load,	Avg Inf NH3 Load,	Load Outlier	30-d Avg of TSS		30-d Avg of NH3-N				of non-SN	of non-SN	of non-SN
	Break?	вгеакт		Flow, mg	d Flow, mgd	Flow, mgd	Avg	Max	Max	Туре	Factor (DPF)	Flow, mgd	mgd	mg/L	Conc., mg/L	Ratio	Conc., mg/L	ppd	ppd	ppd	Туре	Load, ppd	Load, ppd	Load, ppd	ppd	ppd	ppd	ppd	BOD Load, ppd	NH3-N Load, ppd
3/25/2011	FALSE FALSE	FALSE FALSE	TRUE TRUE	6.71 6.70	13.16	10.36 11.51	65% 58%	51% 44%	79% 75%		1.27	8.2 8.4	9.8 10.6	152.00	177.00	1.16		13,133	15,293			12,508	16,228 16,228	1,142	13,133	15,293		12,508	16,228 16,228	1,142 1,142
3/26/2011 3/27/2011	FALSE	FALSE	TRUE	5.57	15.37 14.27	10.27	54%	39%	72%		1.34 1.39	8.5	10.6									12,508 12,519	16,228	1,142 1,151				12,508 12,519	16,228	1,142
3/28/2011	FALSE	FALSE	FALSE	5.61	14.10	9.67	58%	40%	69%		1.46	8.6	10.5	161.00				12,984				12,745	16,825	1,151	12,984			12,745	16,825	1,151
3/29/2011 3/30/2011	FALSE FALSE	FALSE FALSE	FALSE FALSE	4.98 4.74	12.31 12.13	9.13 8.98	55% 53%	40% 39%	74% 74%		1.35 1.35	8.6 8.6	10.2 10.0	167.00				12,716				12,744 12,744	16,825 16,825	1,151 1,151	12,716			12,744 12,744	16,825 16,825	1,151 1,151
3/31/2011	FALSE	FALSE	FALSE	4.60	11.40	8.78	52%	40%	77%		1.30	8.6	9.8	182.00			12.85	13,327		941		12,854	16,825	1,109	13,327		941	12,854	16,825	1,109
4/1/2011	FALSE	FALSE	FALSE	4.66	8.91	8.43	55%	52%	95%	AvgMax	1.06	8.7	9.8	186.00	229.00	1.23		13,077	16,100			12,944	16,803	1,109	13,077	16,100		12,944	16,803	1,109
4/2/2011 4/3/2011	FALSE FALSE	FALSE FALSE	FALSE FALSE	4.34 4.17	9.40 9.52	8.07 7.93	54% 53%	46% 44%	86% 83%	AvgMax	1.16 1.20	8.7 8.6	9.7 9.1									12,944 12,842	16,803 16,803	1,109 1,109				12,944 12,842	16,803 16,803	1,109 1,109
4/4/2011	FALSE	FALSE	FALSE	4.10	10.32	7.86	52%	40%	76%		1.31	8.6	8.7	174.00				11,406				12,794	16,662	998	11,406			12,794	16,662	998
4/5/2011 4/6/2011	FALSE FALSE	FALSE FALSE	FALSE FALSE	4.47 4.44	9.99 9.93	7.72 7.69	58% 58%	45% 45%	77% 77%		1.29 1.29	8.6 8.6	8.4 8.2	168.00	190.00	1.13	14.63	10,817	12,233	942		12,690 12,690	16,029 16,029	987 987	10,817	12,233	942	12,690 12,690	16,029 16,029	987 987
4/7/2011	FALSE	FALSE	FALSE	4.33	9.83	7.62	57%	44%	78%		1.29	8.5	7.9									12,927	16,029	987				12,927	16,029	987
4/8/2011	FALSE	FALSE	FALSE	3.21	10.53	7.48	43%	30%	71%		1.41	8.5	7.7	189.00	198.00	1.05		11,790	12,352			12,908	15,309	987	11,790	12,352		12,908	15,309	987
4/9/2011 4/10/2011	FALSE FALSE	FALSE FALSE	FALSE FALSE	3.59 4.00	11.04 9.50	7.26 7.19	49% 56%	33% 42%	66% 76%		1.52 1.32	8.5 8.4	7.7 7.6									12,908 12,753	15,309 15,309	987 955				12,908 12,753	15,309 15,309	987 955
4/11/2011	FALSE	FALSE	FALSE	4.10	9.26	7.26	56%	44%	78%		1.28	8.4	7.5	154.00				9,324				12,542	14,778	955	9,324			12,542	14,778	955
4/12/2011	FALSE	FALSE	FALSE	4.20	9.26	7.26	58%	45%	78%		1.28	8.4	7.4	206.00	210.00	1.02		12,473	12,715			12,538	14,484	955	12,473	12,715		12,538	14,484	955
4/13/2011 4/14/2011	FALSE FALSE	FALSE FALSE	TRUE FALSE	4.30 4.45	9.12 8.75	7.20 7.16	60% 62%	47% 51%	79% 82%		1.27 1.22	8.4 8.4	7.4 7.3				20.61			1,231		12,538 12,703	14,484 14,484	955 1,011			1,231	12,538 12,703	14,484 14,484	955 1,011
4/15/2011	FALSE	FALSE	FALSE	3.80	9.40	7.00	54%	40%	74%		1.34	8.3	7.2	220.00	204.00	0.93		12,844	11,910	, -		12,568	14,162	1,011	12,844	11,910	, -	12,568	14,162	1,011
4/16/2011	FALSE	FALSE	FALSE	3.80	9.60	6.76	56%	40%	70%		1.42	8.3	7.1									12,408	14,162	1,011				12,408	14,162	1,011
4/17/2011 4/18/2011	FALSE FALSE	FALSE FALSE	TRUE TRUE	3.88 3.88	8.93 9.57	6.92 7.19	56% 54%	43% 41%	77% 75%		1.29 1.33	8.2 8.2	7.1 7.1	226.00				13,552				12,325 12,229	14,162 13,697	1,039 1,039	13,552			12,325 12,229	14,162 13,697	1,039 1,039
4/19/2011	FALSE	FALSE	FALSE	3.79	9.07	6.99	54%	42%	77%		1.30	8.0	7.1	213.00	219.00	1.03		12,417	12,767			12,240	13,581	1,039	12,417	12,767		12,240	13,581	1,039
4/20/2011 4/21/2011	FALSE FALSE	FALSE FALSE	FALSE TRUE	3.90 3.90	9.10 9.20	7.04 6.92	55% 56%	43% 42%	77% 75%		1.29 1.33	8.0 8.0	7.0 7.0				22.32			1,288		12,240	13,581 13,581	1,039 1,089			1,288	12,240 12,120	13,581 13,581	1,039 1,089
4/22/2011	FALSE	FALSE	FALSE	4.15	8.66	6.91	60%	48%	80%		1.25	7.9	7.0	238.00	259.00	1.09	22.32	13,716	14,926	1,200		12,120 12,195	13,537	1,089	13,716	14,926	1,200	12,120	13,537	1,089
4/23/2011	FALSE	FALSE	FALSE	3.99	9.29	6.61	60%	43%	71%		1.41	7.9	6.9									12,195	13,537	1,089				12,195	13,537	1,089
4/24/2011 4/25/2011	FALSE FALSE	FALSE FALSE	FALSE FALSE	3.80	8.80 8.80	6.02 7.15	53%	43%	68% 81%	inAvgMinM	1.46 1.23	7.9 7.8	6.9 7.0	245.00				14,610				12,398 12,504	13,537 13,286	1,100 1,100	14,610			12,398 12,504	13,537 13,286	1,100 1,100
4/26/2011	FALSE	FALSE	FALSE	3.80	9.00	6.81	56%	42%	76%		1.32	7.6	6.9	270.00	233.00	0.86		15,335	13,233			12,693	13,280	1,100	15,335	13,233		12,693	13,280	1,100
4/27/2011	FALSE	FALSE	FALSE	3.90	9.50	6.77	58%	41%	71%		1.40	7.5	6.9	242.00			22.04	47.540		4 007		12,693	13,280	1,100	47.540		4 007	12,693	13,280	1,100
4/28/2011 4/29/2011	FALSE FALSE	FALSE FALSE	FALSE FALSE	3.90 3.67	9.50 13.92	6.72 6.79	58% 54%	41% 26%	71% 49%	AvgMax	1.41 2.05	7.4 7.3	6.8 6.8	313.00 300.00	313.00	1.04	33.84	17,542 16,989	17,725	1,897		12,996 13,281	13,280 13,773	1,260 1,260	17,542 16,989	17,725	1,897	12,996 13,281	13,280 13,773	1,260 1,260
4/30/2011	FALSE	FALSE	FALSE	3.40	9.99	6.52	52%	34%	65%	J	1.53	7.2	6.8					•	,			13,281	13,773	1,260	,	,		13,281	13,773	1,260
5/1/2011 5/2/2011	FALSE FALSE	FALSE FALSE	FALSE FALSE	3.66 3.52	11.41 9.98	6.50	56% 53%	32% 35%	57% 67%	AvgMax	1.76 1.49	7.2 7.1	6.8 6.8	225.00				12,573				13,278	13,773 13,483	1,339 1,339	12,573			13,278	13,773 13,483	1,339 1,339
5/3/2011	FALSE	FALSE	FALSE	3.52	10.06	6.70 6.61	53%	35%	66%		1.49	7.1	6.7	226.00	225.00	1.00		12,373	12,404			13,242 13,190	13,363	1,339	12,459	12,404		13,242 13,190	13,463	1,339
5/4/2011	FALSE	FALSE	FALSE	3.53	9.85	6.66	53%	36%	68%		1.48	7.1	6.7									13,190	13,363	1,339				13,190	13,363	1,339
5/5/2011 5/6/2011	FALSE FALSE	FALSE FALSE	FALSE FALSE	3.57 3.90	9.97 9.60	6.59 6.61	54% 59%	36% 41%	66% 69%		1.51 1.45	7.0 7.0	6.6 6.6	237.00 231.00	221.00	0.96	22.45	13,026 12,734	12,183	1,234		13,298 13,426	13,363 13,357	1,318 1,412	13,026 12,734	12,183	1,234	13,298 13,426	13,363 13,357	1,318 1,412
5/7/2011	FALSE	FALSE	TRUE	3.80	8.80	6.45	59%	43%	73%		1.36	6.9	6.6	231.00	221.00	3.50		12,734	12,103			13,426	13,357	1,412	12,734	12,103		13,426	13,357	1,412
5/8/2011	FALSE	FALSE	TRUE	3.41	10.37	6.49	53%	33%	63%		1.60	6.9	6.6	275.00				15.010				13,426	13,357	1,412	45.010			13,426	13,357	1,412
5/9/2011 5/10/2011	FALSE FALSE	FALSE FALSE	TRUE FALSE	3.41 3.45	10.72 11.01	6.91 6.72	49% 51%	32% 31%	64% 61%		1.55 1.64	6.9 6.9	6.6 6.6	275.00 257.00	266.00	1.04		15,848 14,404	14,908			13,696 13,740	13,483 13,641	1,412 1,412	15,848 14,404	14,908		13,696 13,740	13,483 13,641	1,412 1,412
5/11/2011	FALSE	FALSE	FALSE	3.57	9.72	6.71	53%	37%	69%		1.45	6.8	6.6	2.100			26.64	.,	.,. 50	1,491		13,740	13,641	1,428	.,	.,. 55	1,491	13,740	13,641	1,428
5/12/2011	FALSE	FALSE	FALSE	3.61	9.82	6.68	54%	37%	68%		1.47	6.8	6.6	270.00	205.00	0.01		15,042	16 01 4			14,098	13,641	1,428	15,042	16 014		14,098	13,641	1,428
5/13/2011 5/14/2011	FALSE FALSE	FALSE FALSE	FALSE FALSE	3.66 3.57	10.55 9.67	6.61 6.49	55% 55%	35% 37%	63% 67%		1.60 1.49	6.8 6.8	6.6 6.6	337.00	305.00	0.91		18,578	16,814			14,479 14,479	14,097 14,097	1,428 1,428	18,578	16,814		14,479 14,479	14,097 14,097	1,428 1,428
5/15/2011	FALSE	FALSE	TRUE	3.88	9.57	6.75	57%	41%	71%		1.42	6.8	6.7									14,479	14,097	1,477				14,479	14,097	1,477
5/16/2011 5/17/2011	FALSE FALSE	FALSE FALSE	TRUE TRUE	3.68 4.15	9.01 9.92	7.14 7.67	52% 54%	41% 42%	79% 77%		1.26 1.29	6.8 6.8	6.8 6.8	242.00 223.00	208.00	0.93		14,411 14,265	13,305			14,577 14,559	14,370 14,252	1,477 1,477	14,411 14,265	13,305		14,577 14,559	14,370 14,252	1,477 1,477
5/17/2011 5/18/2011	FALSE	FALSE	TRUE	3.95	9.92	7.87	54%	41%	76%		1.29	6.8	6.9	223.00	208.00	0.33	18.01	14,203	13,303	1,104		14,559	14,252	1,477	14,203	13,303	1,104	14,559	14,252 14,252	1,477
5/19/2011	FALSE	FALSE	FALSE	3.93	9.30	7.12	55%	42%	77%		1.31	6.8	7.0	222.00	_			13,183				14,537	14,252	1,403	13,183			14,537	14,252	1,403
5/20/2011 5/21/2011	FALSE FALSE	FALSE FALSE	FALSE FALSE	3.78 3.78	9.01 9.57	6.90 6.71	55% 56%	42% 39%	77% 70%		1.31 1.43	6.8 6.8	7.0 7.0	220.00	241.00	1.10		12,660	13,869			14,551 14,551	14,374 14,374	1,403 1,403	12,660	13,869		14,551 14,551	14,374 14,374	1,403 1,403
5/22/2011	FALSE	TRUE	TRUE	3.69	9.34	6.66	55%	40%	71%		1.43	6.8	7.0									14,551	14,374	1,431				14,551	14,374	1,403
5/23/2011	FALSE	TRUE	TRUE	3.92	8.41	6.89	57%	47%	82%		1.22	6.8	7.1	179.00			18.61	10,286		1,069		14,350	14,305	1,359	10,286		1,069	14,350	14,305	1,359
5/24/2011 5/25/2011	FALSE FALSE	TRUE TRUE	TRUE TRUE	3.76 4.31	8.77 10.89	6.88 8.47	55% 51%	43% 40%	78% 78%		1.27 1.29	6.8 6.9	7.0 7.1	261.00				14,976				14,384 14,384	14,305 14,305	1,359 1,359	14,976			14,384 14,384	14,305 14,305	1,359 1,359
5/26/2011	FALSE	TRUE	FALSE	6.20	8.19	7.78	80%	76%		gMinMaxA		6.8	7.1	169.00	159.00	0.94		10,966	10,317			14,182	13,862	1,359	10,966	10,317		14,182	13,862	1,359

											Diurnal				Influent		Influent											30-d Avg	30-d Avg	30-d Ave
Date	Butte	CSU	Precip?	Min Influent	Max Influent	Avg Influent		Min % of		Flow Outlier	Peak		7-d Avg of Avg Flow,	Influent TSS Conc.,	BOD	BOD/TSS	NH3-N	Avg Inf TSS Load,	Avg Inf BOD Load,	Avg Inf NH3 Load,	Load Outlier	30-d Avg of TSS				non-SN BOD Load,		of non-SN	of non-SN	of non-SN
	Break?	Break?		Flow, mg	d Flow, mgd	Flow, mgd	Avg	Max	Max	Туре	Factor (DPF)	Flow, mgd	mgd	mg/L	Conc., mg/L	Ratio	Conc., mg/L	ppd	ppd	ppd	Туре	Load, ppd	Load, ppd	Load, ppd	ppd	ppd	ppd	ppd	BOD Load, ppd	NH3-N Load, ppd
5/27/2011	TRUE	TRUE	FALSE	4.12	8.84	7.03	59%	47%	80%		1.26	6.9 6.9	7.1	195.00				11,433				13,965	13,940	1,359	10,564			13,917	13,940	1,359
5/28/2011 5/29/2011	TRUE TRUE	TRUE TRUE	TRUE FALSE	3.97 3.91	9.17 8.89	6.77 6.44	59% 61%	43% 44%	74% 72%		1.35 1.38	6.8	7.1 7.0									13,965 13,755	13,940 13,940	1,359 1,225				13,917 13,704	13,940 13,940	1,359 1,225
5/30/2011	TRUE	TRUE	FALSE	3.73	9.54	6.56	57%	39%	69%		1.45	6.8	7.0	222.00				42.200				13,553	13,400	1,225	42.206			13,498	13,400	1,225
5/31/2011 6/1/2011	TRUE TRUE	TRUE TRUE	TRUE TRUE	3.61 3.71	8.59 8.45	6.69 6.65	54% 56%	42% 44%	78% 79%		1.28 1.27	6.8 6.8	7.0 6.9	222.00 197.00	190.00	0.96		12,386 10,926	10,538			13,484 13,342	13,400 13,042	1,225 1,225	12,386 10,926	10,538		13,433 13,294	13,400 13,042	1,225 1,225
6/2/2011	TRUE	TRUE	FALSE	3.70	8.40	6.47	57%	44%	77%		1.30	6.8	6.7	249.00				13,436				13,390	13,042	1,225	13,436			13,342	13,042	1,225
6/3/2011 6/4/2011	TRUE TRUE	TRUE TRUE	FALSE TRUE	3.88 3.63	7.39 8.50	6.34 6.37	61% 57%	53% 43%	86% 75%	AvgMax	1.17 1.33	6.8	6.7 6.6	280.00			18.21	14,805		963		13,520 13,520	13,133 13,133	1,172 1,172	14,805		963	13,472 13,472	13,133 13,133	1,172 1,172
6/5/2011	TRUE	TRUE	TRUE	3.70	8.60	6.36	58%	43%	74%		1.35	6.8	6.5									13,549	13,133	1,157				13,498	13,133	1,157
6/6/2011 6/7/2011	TRUE TRUE	TRUE TRUE	FALSE TRUE	3.80 3.70	8.40 8.50	6.61 6.59	57% 56%	45% 44%	79% 78%		1.27 1.29	6.8 6.8	6.5 6.5	189.00 282.00	203.00	0.72		10,419 15,499	11,157			13,413 13,529	13,292 12,987	1,157 1,157	10,419 15,499	11,157		13,362 13,481	13,292 12,987	1,157 1,157
6/8/2011	TRUE	TRUE	FALSE	4.00	8.10	6.51	61%	49%	80%		1.24	6.8	6.5	249.00	203.00	0.72		13,519	11,137			13,528	12,987	1,157	13,519	11,137		13,483	12,987	1,157
6/9/2011	TRUE	TRUE	FALSE	3.90	8.00	6.38	61%	49%	80%		1.25	6.8	6.5	245.00	242.00	1 10	19.10	13,036	12 607	1,016		13,380	12,987	1,129	13,036	12 607	1,016	13,335	12,987	1,129
6/10/2011 6/11/2011	TRUE TRUE	TRUE TRUE	FALSE FALSE	3.86 3.76	8.21 8.34	6.26 6.08	62% 62%	47% 45%	76% 73%		1.31 1.37	6.8 6.8	6.4 6.4	204.00	243.00	1.19		10,651	12,687			13,183 13,183	12,669 12,669	1,129 1,038	10,651	12,687		13,137 13,137	12,669 12,669	1,129 1,038
6/12/2011	TRUE	TRUE	FALSE	3.75	8.42	6.09	62%	45%	72%		1.38	6.7	6.4	22=				40				13,080	12,669	1,038	40.4			13,031	12,669	1,038
6/13/2011 6/14/2011	TRUE TRUE	TRUE TRUE	FALSE FALSE	3.75 3.92	8.05 7.90	6.34 6.28	59% 62%	47% 50%	79% 79%		1.27 1.26	6.7 6.7	6.4 6.3	235.00 234.00	218.00	0.93		12,426 12,256	11,418			12,738 12,712	11,979 11,899	1,038 1,038	12,426 12,256	11,418		12,690 12,667	11,979 11,899	1,038 1,038
6/15/2011	TRUE	TRUE	FALSE	3.74	8.25	6.22	60%	45%	75%		1.33	6.7	6.3			0.55						12,712	11,899	1,038		, .10		12,667	11,899	1,038
6/16/2011 6/17/2011	TRUE TRUE	TRUE TRUE	FALSE FALSE	3.76 3.90	7.86 7.86	6.22 6.15	60% 63%	48% 50%	79% 78%		1.26 1.28	6.7 6.6	6.2 6.2	272.00 239.00	218.00	0.91	21.93	14,110 12,259	11,181	1,138		12,697 12,591	11,899 11,595	1,058 1,058	14,110 12,259	11,181	1,138	12,651 12,545	11,899 11,595	1,058 1,058
6/18/2011	TRUE	TRUE	FALSE	3.83	7.68	5.88	65%	50%	77%		1.31	6.6	6.2	233.00	210.00	0.51		12,233	11,101			12,591	11,595	1,047	12,233	11,101		12,545	11,595	1,047
6/19/2011	TRUE	TRUE	FALSE	3.62	7.88	5.89	61%	46%	75%		1.34	6.5	6.1	204.00			24.02	45.047		4.420		12,558	11,595	1,047	45.047		1 120	12,510	11,595	1,047
6/20/2011 6/21/2011	TRUE TRUE	TRUE TRUE	FALSE FALSE	3.79 3.57	7.99 7.64	6.20 6.00	61% 60%	47% 47%	78% 79%		1.29 1.27	6.5 6.5	6.1 6.1	291.00 242.00	230.00	0.95	21.83	15,047 12,110	11,509	1,129		12,691 12,660	11,216 11,258	1,063 1,063	15,047 12,110	11,509	1,129	12,643 12,614	11,216 11,258	1,063 1,063
6/22/2011	TRUE	TRUE	FALSE	3.56	7.71	6.01	59%	46%	78%		1.28	6.5	6.1									12,660	11,258	1,063				12,614	11,258	1,063
6/23/2011 6/24/2011	TRUE TRUE	TRUE TRUE	FALSE FALSE	3.62 3.46	7.34 7.83	5.99 5.90	60% 59%	49% 44%	82% 75%		1.23 1.33	6.4 6.4	6.0 6.0	252.00 244.00				12,589 12,006				12,781 12,625	11,258 11,258	1,061 1,061	12,589 11,066			12,736 12,530	11,258 11,258	1,061 1,061
6/25/2011	TRUE	TRUE	FALSE	3.51	7.85	5.71	61%	45%	73%		1.37	6.3	5.9	244.00				12,000				12,625	11,258	1,061	11,000			12,530	11,258	1,061
6/26/2011	TRUE	TRUE	FALSE	3.54 3.55	7.33	5.68	62%	48%	77%		1.29	6.3	5.9	238.00				11,929				12,717	11,415	1,061	11 020			12,617	11,415	1,061
6/27/2011 6/28/2011	TRUE TRUE	TRUE TRUE	FALSE TRUE	3.50	7.40 9.36	6.01 6.94	59% 50%	48% 37%	81% 74%		1.23 1.35	6.2 6.2	5.9 6.0	308.00	216.00	0.70		17,827	12,502			12,745 13,012	11,415 11,570	1,061 1,061	11,929 17,827	12,502		12,693 12,963	11,415 11,570	1,061 1,061
6/29/2011	TRUE	TRUE	FALSE	3.97	7.56	6.79	58%	53%	90%	AvgMax	1.11	6.2	6.0									13,012	11,570	1,061				12,963	11,570	1,061
6/30/2011 7/1/2011	TRUE TRUE	TRUE TRUE	FALSE FALSE	3.96 3.67	7.53 7.90	6.39 6.07	62% 60%	53% 46%	85% 77%		1.18 1.30	6.2 6.2	6.1 6.1	268.00 217.00	224.00	0.84	18.68	14,282 10,985	11,938	946		13,076 13,006	11,616 11,616	1,061 1,038	14,282 10,985	11,938	946	13,029 12,959	11,616 11,616	1,061 1,038
7/2/2011	TRUE	TRUE	FALSE	3.55	7.83	5.73	62%	45%	73%		1.37	6.2	6.1									13,115	11,770	1,038				13,066	11,770	1,038
7/3/2011 7/4/2011	TRUE TRUE	TRUE TRUE	FALSE FALSE	3.53 3.70	7.54 6.40	5.50 5.52	64% 67%	47% 58%	73% 86%	inMaxAvgM	1.37 1.16	6.2 6.2	6.0 6.1									13,098 12,997	11,770 11,770	1,038 1,057				13,045 12,942	11,770 11,770	1,038 1,057
7/4/2011 7/5/2011	TRUE	TRUE	FALSE	3.51	7.64	6.06	58%	46%	79%	IIIIvidxAvgivi	1.26	6.1	6.1	243.00	163.00	0.67		12,281	8,238			12,957	11,770	1,057	12,281	8,238		12,942	11,770	1,057
7/6/2011	TRUE	TRUE	FALSE	3.70	7.40	6.15	60%	50%	83%		1.20	6.1	6.0	250.00			47.26	12.614		076		12,957	11,329	1,057	12.514		076	12,905	11,329	1,057
7/7/2011 7/8/2011	TRUE TRUE	TRUE TRUE	FALSE FALSE	3.63 3.70	7.89 7.60	6.05 5.92	60% 63%	46% 49%	77% 78%		1.30 1.28	6.1	6.0 5.9	250.00 214.00	191.00	0.89	17.36	12,614 10,566	9,430	876		13,079 12,805	11,329 11,113	1,021 1,021	12,614 10,566	9,430	876	13,027 12,753	11,329 11,113	1,021 1,021
7/9/2011	TRUE	TRUE	FALSE	3.60	7.60	5.76	63%	47%	76%		1.32	6.1	5.9									12,763	11,113	1,021				12,708	11,113	1,021
7/10/2011 7/11/2011	TRUE TRUE	TRUE TRUE	FALSE FALSE	3.45 3.47	7.91 8.73	5.83 6.12	59% 57%	44% 40%	74% 70%		1.36 1.43	6.0 6.0	5.9 6.0									12,746 12,886	11,113 10,888	1,022 1,022				12,687 12,823	11,113 10,888	1,022 1,022
7/12/2011	TRUE	TRUE	FALSE	3.35	8.77	6.14	55%	38%	70%		1.43	6.0	6.0	311.00	208.00	0.67		15,926	10,651			13,076	10,858	1,022	15,926	10,651		13,017	10,858	1,022
7/13/2011	TRUE	TRUE	FALSE	3.32	8.92	6.11	54%	37%	68%		1.46	6.0	6.0	245.00			20.15	12 402		1.020		13,076	10,858	1,022	12 402		1.020	13,017	10,858	1,022
7/14/2011 7/15/2011	TRUE TRUE	TRUE TRUE	FALSE FALSE	3.38 3.83	8.91 7.48	6.07 5.97	56% 64%	38% 51%	68% 80%		1.47 1.25	6.0 6.0	6.0 6.0	245.00 238.00	150.00	0.63	20.15	12,403 11,850	7,468	1,020		13,074 13,049	10,858 10,365	1,022 1,022	12,403 11,850	7,468	1,020	13,016 12,990	10,858 10,365	1,022 1,022
7/16/2011	TRUE	TRUE	FALSE	3.60	7.71	5.76	63%	47%	75%		1.34	6.0	6.0									13,049	10,365	1,022				12,990	10,365	1,022
7/17/2011 7/18/2011	TRUE TRUE	TRUE TRUE	FALSE FALSE	3.50 3.45	7.40 7.30	5.75 6.06	61% 57%	47% 47%	78% 83%		1.29 1.20	6.0 6.0	6.0 6.0	246.00				12,433				12,978 12,990	10,365 10,248	993 993	12,433			12,916 12,927	10,365 10,248	993 993
7/19/2011	TRUE	TRUE	FALSE	3.60	7.60	6.06	59%	47%	80%		1.25	6.0	6.0	275.00	222.00	0.81		13,899	11,220			13,047	10,370	993	13,899	11,220		12,988	10,370	993
7/20/2011	TRUE	TRUE	FALSE	3.60	7.40	5.98	60% 58%	49% 46%	81%		1.24	6.0	6.0	221.00			20.20	11 570		1 022		13,047	10,370	993	11 570		1 022	12,988	10,370	993
7/21/2011 7/22/2011	TRUE TRUE	TRUE TRUE	FALSE FALSE	3.50 3.33	7.60 8.89	6.01 5.93	58% 56%	46% 37%	79% 67%		1.26 1.50	6.0	6.0 5.9	231.00 254.00	224.00	0.88	20.39	11,579 12,562	11,078	1,022		12,830 12,858	10,370 10,316	966 966	11,579 12,562	11,078	1,022	12,771 12,799	10,370 10,316	966 966
7/23/2011	TRUE	TRUE	FALSE	3.30	8.80	5.70	58%	38%	65%		1.54	6.0	5.9									12,858	10,316	966				12,799	10,316	966
7/24/2011 7/25/2011	TRUE TRUE	TRUE TRUE	FALSE FALSE	3.50 3.31	7.60 8.64	5.70 6.00	61% 55%	46% 38%	75% 69%		1.33 1.44	6.0 6.0	5.9 5.9	211.00				10,558				12,876 12,780	10,316 10,316	966 966	10,558			12,813 12,780	10,316 10,316	966 966
7/26/2011	TRUE	TRUE	FALSE	3.30	8.30	5.96	55%	40%	72%		1.39	6.0	5.9	253.00	146.00	0.58		12,576	7,257			12,767	9,976	966	12,576	7,257		12,767	9,976	966
7/27/2011	TRUE	TRUE	FALSE	3.58	7.38	6.00	60%	49%	81%		1.23	6.0	5.9	243.00			10 14	12,160		006		12,731	9,976	966	12,160		006	12,731	9,976	966
7/28/2011	TRUE	TRUE	FALSE	3.55	7.30	5.99	59%	49%	82%		1.22	6.0	5.9				18.14			906		12,781	9,976	954			906	12,781	9,976	954

				Min	May	Δνα				Flow	Diurnal	20 d Avg	7 d Avg of	Influent	Influent		Influent	Ava Inf	Ava Inf	Avg Inf	Load	20 d Ava	20 d Ava	30-d Avg	non SN	non SN	non SN	30-d Avg	30-d Avg	30-d Avg
Date	Butte Break?	CSU Break?	Precip?	Min Influent	Max Influent	Avg Influent		Min % of		Flow Outlier	Peak		7-d Avg of Avg Flow,	TSS Conc.,	BOD	BOD/TSS		Avg Inf TSS Load,	Avg Inf BOD Load,	Avg Inf NH3 Load,	Load Outlier	of TSS		of NH3-N					of non-SN	
	Б геак <i>т</i>	Б геак <i>т</i>		Flow, mg	d Flow, mgd	Flow, mgd	Avg	Max	Max	Туре	Factor (DPF)	Flow, mgd	mgd	mg/L	Conc., mg/L	Ratio	Conc., mg/L	ppd	ppd	ppd	Туре	Load, ppd	Load, ppd	Load, ppd	ppd	ppd	ppd	ppd	BOD Load, ppd	NH3-N Load, ppd
7/29/2011	TRUE	TRUE	FALSE	3.60	7.70	5.95	61%	47%	77%		1.29	6.0	5.9	272.00	204.00	0.75		13,497	10,123			12,511	9,712	954	13,497	10,123		12,511	9,712	954
7/30/2011 7/31/2011	TRUE TRUE	TRUE TRUE	FALSE FALSE	3.70 3.29	7.70 8.86	5.76 5.77	64% 57%	48% 37%	75% 65%		1.34 1.54	5.9 5.9	5.9 5.9									12,511 12,393	9,712 9,433	954 954				12,511 12,393	9,712 9,433	954 954
8/1/2011	TRUE	TRUE	FALSE	3.36	9.04	6.02	56%	37%	67%		1.50	5.9	5.9									12,493	9,433	956				12,493	9,433	956
8/2/2011 8/3/2011	TRUE TRUE	TRUE TRUE	FALSE FALSE	3.33 3.37	8.70 8.61	6.04 6.01	55% 56%	38% 39%	69% 70%		1.44 1.43	5.9 6.0	5.9 5.9	244.00	189.00	0.77		12,291	9,521			12,480 12,480	9,443 9,443	956 956	12,291	9,521		12,480 12,480	9,443 9,443	956 956
8/4/2011	TRUE	TRUE	FALSE	3.38	8.86	6.07	56%	38%	69%		1.46	6.0	6.0	202.00			20.17	10,226		1,021		12,339	9,443	969	10,226		1,021	12,339	9,443	969
8/5/2011 8/6/2011	TRUE	TRUE TRUE	FALSE FALSE	3.61 3.70	7.58	5.98 5.86	60% 63%	48% 47%	79% 75%		1.27	6.0	6.0 5.9	298.00				14,862				12,500	9,594	969	14,862			12,500	9,594	969 969
8/7/2011	TRUE TRUE	TRUE	FALSE	3.70	7.83 7.60	5.81	64%	49%	76%		1.34	5.9 5.9	5.9									12,500 12,492	9,594 9,594	969 992				12,500 12,492	9,594 9,594	992
8/8/2011	TRUE	TRUE	FALSE	3.60	7.50	6.09	59%	48%	81%		1.23	5.9	6.0									12,630	9,617	992				12,630	9,617	992
8/9/2011 8/10/2011	TRUE TRUE	TRUE TRUE	FALSE FALSE	3.60 3.60	8.90 7.80	6.23 6.10	58% 59%	40% 46%	70% 78%		1.43 1.28	6.0 6.0	6.0	232.00 300.00				12,054 15,262				12,592 12,759	9,617 9,617	992 992	12,054 15,262			12,592 12,759	9,617 9,617	992 992
8/11/2011	TRUE	TRUE	FALSE	3.40	7.70	6.11	56%	44%	79%		1.26	6.0	6.0	221.00			19.09	11,262		973		12,671	9,617	988	11,262		973	12,671	9,617	988
8/12/2011	TRUE	TRUE	FALSE	3.35	8.96	6.03	56%	37%	67%		1.49	6.0	6.0	303.00	206.00	0.68		15,238	10,360			12,630	9,575	988	15,238	10,360		12,630	9,575	988
8/13/2011 8/14/2011	TRUE TRUE	TRUE TRUE	FALSE FALSE	3.39 3.70	9.30 9.20	5.95 6.12	57% 60%	36% 40%	64% 67%		1.56 1.50	6.0 6.0	6.0 6.1									12,630 12,644	9,575 9,575	988 981				12,630 12,644	9,575 9,575	988 981
8/15/2011	TRUE	TRUE	FALSE	3.30	9.20	6.29	52%	36%	68%		1.46	6.0	6.1									12,697	9,926	981				12,697	9,926	981
8/16/2011 8/17/2011	TRUE TRUE	TRUE TRUE	FALSE FALSE	3.40 5.30	9.22 7.95	6.49 6.53	52% 81%	37% 67%	70% 82%	inAvgMinM	1.42 1.22	6.0 6.0	6.2 6.2	309.00 199.00				16,725 10,838				12,949 12,825	9,926 9,926	981 981	16,725 10,838			12,949 12,825	9,926 9,926	981 981
8/18/2011	TRUE	TRUE	FALSE	4.01	7.88	6.64	60%	51%	84%	(*8.********	1.19	6.0	6.2	200.00			18.79	11,076		1,041		12,745	9,926	993	11,076		1,041	12,745	9,926	993
8/19/2011	TRUE	TRUE	FALSE	3.80	8.40	6.68	57%	45%	80%		1.26	6.0	6.3	184.00	170.00	0.92		10,251	9,471			12,530	9,635	993	10,251	9,471		12,530	9,635	993
8/20/2011 8/21/2011	TRUE TRUE	TRUE TRUE	FALSE FALSE	3.70 3.38	8.60 10.58	6.51 6.68	57% 51%	43% 32%	76% 63%		1.32 1.58	6.1	6.4 6.5									12,530 12,590	9,635 9,635	993 985				12,530 12,590	9,635 9,635	993 985
8/22/2011	TRUE	TRUE	FALSE	3.40	10.50	6.78	50%	32%	65%		1.55	6.1	6.6	210.00				11,874				12,547	9,346	985	11,874			12,547	9,346	985
8/23/2011 8/24/2011	FALSE FALSE	FALSE FALSE	FALSE FALSE	3.42 3.36	10.35 10.55	6.68 6.74	51% 50%	33% 32%	65% 64%		1.55 1.57	6.1 6.2	6.6 6.7	247.00	180.00	0.73		13,761	10,028			12,618 12,618	9,460 9,460	985 985	13,761	10,028		12,618 12,618	9,460 9,460	985 985
8/25/2011	FALSE	FALSE	FALSE	3.46	10.31	6.72	51%	34%	65%		1.53	6.2	6.7	262.00			18.16	14,684		1,018		12,861	9,460	992	14,684		1,018	12,861	9,460	992
8/26/2011	FALSE	FALSE	FALSE	3.94	9.03	6.76	58%	44%	75%		1.34	6.2	6.7	232.00	203.00	0.88		13,080	11,445			12,891	10,158	992	13,080	11,445		12,891	10,158	992
8/27/2011 8/28/2011	FALSE FALSE	FALSE FALSE	FALSE FALSE	4.00 3.80	8.57 8.60	6.58 6.60	61% 58%	47% 44%	77% 77%		1.30 1.30	6.2	6.7 6.7									12,936 12,936	10,158 10,158	992 1,013				12,936 12,936	10,158 10,158	992 1,013
8/29/2011	FALSE	FALSE	FALSE	3.80	8.50	6.69	57%	45%	79%		1.27	6.3	6.7	236.00				13,168				12,916	10,165	1,013	13,168			12,916	10,165	1,013
8/30/2011 8/31/2011	FALSE FALSE	FALSE FALSE	FALSE FALSE	3.70 3.80	8.90 8.90	6.72 6.74	55% 56%	42% 43%	76% 76%		1.32 1.32	6.3 6.4	6.7 6.7	241.00	169.00	0.70		13,507	9,472			12,950 12,950	10,049 10,049	1,013 1,013	13,507	9,472		12,950 12,950	10,049 10,049	1,013 1,013
9/1/2011	FALSE	FALSE	FALSE	3.80	8.90	6.76	56%	43%	76%		1.32	6.4	6.7	213.00			20.60	12,009		1,161		12,898	10,049	1,013	12,009		1,161	12,898	10,049	1,043
9/2/2011	FALSE	FALSE	FALSE	3.40	9.60	6.65	51%	35%	69%		1.44	6.4	6.7	234.00	193.00	0.82		12,978	10,704			12,936	10,247	1,043	12,978	10,704		12,936	10,247	1,043
9/3/2011 9/4/2011	FALSE FALSE	FALSE FALSE	FALSE FALSE	3.40 3.40	9.85 9.43	6.40 6.29	53% 54%	35% 36%	65% 67%		1.54 1.50	6.4 6.4	6.6 6.6									12,936 13,096	10,247 10,247	1,043 1,048				12,936 13,096	10,247 10,247	1,043 1,048
9/5/2011	FALSE	FALSE	FALSE	3.62	9.01	6.65	54%	40%	74%		1.35	6.4	6.6									12,985	10,247	1,048				12,985	10,247	1,048
9/6/2011 9/7/2011	FALSE FALSE	FALSE FALSE	FALSE FALSE	3.62 3.66	9.04 8.98	6.72 6.74	54% 54%	40% 41%	74% 75%		1.35 1.33	6.5 6.5	6.6 6.6	213.00 188.00	179.00	0.84		11,938 10,568	10,032			12,924 12,793	10,216 10,216	1,048 1,048	11,938 10,568	10,032		12,924 12,793	10,216 10,216	1,048 1,048
9/8/2011	FALSE	FALSE	FALSE	3.67	8.91	6.72	55%	41%	75%		1.33	6.5	6.6	100.00				10,500				12,793	10,216	1,048	10,500			12,793	10,216	1,048
9/9/2011	FALSE	FALSE	FALSE	3.70	8.90	6.73	55%	42%	76%		1.32	6.5	6.6	219.00			21.03	12,292		1,180		12,806	10,216	1,075	12,292		1,180	12,806	10,216	1,075
9/10/2011 9/11/2011	FALSE FALSE	FALSE FALSE	FALSE FALSE	3.73 3.36	8.62 10.01	6.46 6.61	58% 51%	43% 34%	75% 66%		1.33 1.51	6.6 6.6	6.6 6.6									12,661 12,749	10,216 10,216	1,075 1,100				12,661 12,749	10,216 10,216	1,075 1,100
9/12/2011	FALSE	FALSE	FALSE	3.40	9.68	7.03	48%	35%	73%		1.38	6.6	6.7	204.00				11,961				12,544	10,192	1,100	11,961			12,544	10,192	1,100
9/13/2011 9/14/2011	FALSE FALSE	FALSE FALSE	FALSE FALSE	3.70 3.70	9.00 9.30	6.44 6.82	57% 54%	41% 40%	72% 73%		1.40 1.36	6.6 6.6	6.7 6.7	238.00	180.00	0.76		12,783	9,668			12,558 12,558	10,117 10,117	1,100 1,100	12,783	9,668		12,558 12,558	10,117 10,117	1,100 1,100
9/15/2011	FALSE	FALSE	FALSE	3.76	9.90	6.75	50%	34%	68%		1.47	6.7	6.7				19.75			1,112		12,558	10,117	1,100			1,112	12,558	10,117	1,102
9/16/2011	FALSE	FALSE	FALSE	3.75	8.93	6.79	55%	42%	76%		1.32	6.7	6.7	198.00	181.00	0.91		11,212	10,250			12,234	10,134	1,102	11,212	10,250		12,234	10,134	1,102
9/17/2011 9/18/2011	FALSE FALSE	FALSE FALSE	FALSE FALSE	3.71 3.54	8.59 8.74	6.42 6.54	58% 54%	43% 41%	75% 75%		1.34 1.34	6.7 6.7	6.7 6.7									12,321 12,404	10,134 10,134	1,102 1,118				12,321 12,404	10,134 10,134	1,102 1,118
9/19/2011	FALSE	FALSE	FALSE	3.69	8.95	6.73	55%	41%	75%		1.33	6.7	6.7	192.00				10,777				12,439	10,228	1,118	10,777			12,439	10,228	1,118
9/20/2011 9/21/2011	FALSE FALSE	FALSE FALSE	FALSE FALSE	3.71 3.70	9.05 9.00	6.69 6.70	55% 55%	41% 41%	74% 74%		1.35 1.34	6.7 6.7	6.6 6.7	202.00	170.00	0.84		11,271	9,485			12,366 12,366	10,135 10,135	1,118 1,118	11,271	9,485		12,366 12,366	10,135 10,135	1,118 1,118
9/22/2011	FALSE	FALSE	FALSE	3.50	8.90	6.74	52%	39%	76%		1.32	6.7	6.7	248.00			20.42	13,940		1,148		12,495	10,135	1,118	13,940		1,148	12,495	10,135	1,118
9/23/2011	FALSE	FALSE	FALSE	3.37	9.57	6.57	51%	35%	69%		1.46	6.7	6.6									12,411	10,151	1,124				12,411	10,151	1,124
9/24/2011 9/25/2011	FALSE FALSE	FALSE FALSE	FALSE TRUE	3.35 3.80	9.38 8.60	6.39 6.54	52% 58%	36% 44%	68% 76%		1.47 1.31	6.7 6.6	6.6 6.6									12,411 12,249	10,151 10,151	1,124 1,150				12,411 12,249	10,151 10,151	1,124 1,150
9/26/2011	FALSE	FALSE	FALSE	3.75	8.48	6.72	56%	44%	79%		1.26	6.6	6.6	236.00				13,227				12,259	9,935	1,150	13,227			12,259	9,935	1,150
9/27/2011 9/28/2011	FALSE FALSE	FALSE FALSE	FALSE FALSE	3.84 3.89	8.62 8.33	6.75 6.72	57% 58%	45% 47%	78% 81%		1.28 1.24	6.6 6.7	6.6 6.6	198.00	170.00	0.86		11,146	9,570			12,185 12,185	9,883 9,883	1,150 1,150	11,146	9,570		12,185 12,185	9,883 9,883	1,150 1,150
9/29/2011	FALSE	FALSE	FALSE	3.90	8.30	6.83	57%	47%	82%		1.22	6.7	6.7	227.00			21.57	12,930		1,229		12,169	9,883	1,166	12,930		1,229	12,169	9,883	1,166

											Diurnal				Influent		Influent											30-d Avg	30-d Avg	30-d Avg
Date	Butte	CSU	Precip?	Min Influent	Max Influent	Avg Influent	Min % of	Min % of		Flow Outlier	Peak		7-d Avg of Avg Flow.	Influent TSS Conc.,	BOD	BOD/TSS	NH3-N	Avg Inf TSS Load.	Avg Inf BOD Load,	Avg Inf NH3 Load.	Load Outlier	30-d Avg of TSS		30-d Avg of NH3-N				of non-SN	of non-SN	of non-SN
	Break?	Break?			d Flow, mgd		Avg	Max	Max	Туре	Factor (DPF)	Flow, mgd		mg/L	Conc., mg/L	Ratio	Conc., mg/L	ppd	ppd	ppd	Туре			Load, ppd		ppd	ppd	TSS Load, ppd	BOD Load, ppd	NH3-N Load, ppd
9/30/2011	FALSE	FALSE	FALSE	3.80	8.40	6.71	57%	45%	80%		1.25	6.7	6.7	183.00	184.00	1.01		10,241	10,297			11,951	10,001	1,166	10,241	10,297		11,951	10,001	1,166
10/1/2011	FALSE	FALSE	FALSE	3.50	8.30	6.48	54%	42%	78%		1.28	6.6	6.6									11,951	10,001	1,166				11,951	10,001	1,166
10/2/2011 10/3/2011	FALSE FALSE	FALSE FALSE	FALSE TRUE	3.37 3.35	9.98 9.77	6.59 6.82	51% 49%	34% 34%	66% 70%		1.51 1.43	6.6 6.6	6.7 6.7	215.00				12,229				11,947 11,894	10,001 9,884	1,167 1,167	12,229			11,947 11,894	10,001 9,884	1,167 1,167
10/4/2011	FALSE	FALSE	TRUE	3.43	10.15	7.20	48%	34%	71%		1.41	6.7	6.8	218.00	177.00	0.81		13,090	10,628			11,974	9,990	1,167	13,090	10,628		11,974	9,990	1,167
10/5/2011 10/6/2011	FALSE FALSE	FALSE FALSE	TRUE TRUE	3.69 3.79	11.67 11.48	7.92 8.11	47% 47%	32% 33%	68% 71%		1.47 1.42	6.7 6.8	6.9 7.1	223.00			12.44	15,083		841		11,974 12,168	9,990 9,990	1,167 1,102	15,083		841	11,974 12,168	9,990 9,990	1,167 1,102
10/7/2011	FALSE	FALSE	FALSE	4.14	10.03	7.42	56%	41%	74%		1.35	6.8	7.2	200.00	168.00	0.84		12,377	10,396			12,195	10,042	1,102	12,377	10,396		12,195	10,042	1,102
10/8/2011 10/9/2011	FALSE FALSE	FALSE FALSE	FALSE FALSE	4.04 3.60	9.07 9.40	6.95 6.96	58% 52%	45% 38%	77% 74%		1.31 1.35	6.8 6.8	7.2 7.2									12,304 12,304	10,042 10,042	1,102 1,102				12,304 12,304	10,042 10,042	1,102 1,102
10/10/2011	FALSE	FALSE	TRUE	3.94	9.74	7.87	50%	40%	81%		1.24	6.8	7.4	189.00	180.00	0.95		12,405	11,814			12,311	10,264	1,082	12,405	11,814		12,311	10,264	1,082
10/11/2011	FALSE FALSE	FALSE FALSE	TRUE FALSE	3.80 3.90	9.50	7.65	50% 54%	40%	81%		1.24	6.9	7.5 7.5	218.00			19.41	13,909		1,238		12,411	10,264	1,114	13,909		1,238	12,411	10,264	1,114
10/12/2011 10/13/2011	FALSE	FALSE	FALSE	4.58	9.90 8.77	7.28 7.14	64%	39% 52%	74% 81%		1.36 1.23	6.9 6.9	7.5 7.4	195.00				11,612				12,411 12,389	10,264 10,264	1,114 1,114	11,612			12,411 12,389	10,264 10,264	1,114 1,114
10/14/2011	FALSE	FALSE	FALSE	3.47	10.15	6.92	50%	34%	68%		1.47	6.9	7.3	217.00	207.00	0.95		12,524	11,947			12,373	10,548	1,114	12,524	11,947		12,373	10,548	1,114
10/15/2011 10/16/2011	FALSE FALSE	FALSE FALSE	FALSE FALSE	3.43 3.59	10.00 9.09	6.70 6.72	51% 53%	34% 39%	67% 74%		1.49 1.35	6.9 6.9	7.2 7.2									12,373 12,373	10,548 10,548	1,114 1,114				12,373 12,373	10,548 10,548	1,114 1,114
10/17/2011	FALSE	FALSE	FALSE	3.64	9.22	6.88	53%	39%	75%		1.34	6.9	7.1	191.00				10,959				12,357	10,591	1,114	10,959			12,357	10,591	1,114
10/18/2011 10/19/2011	FALSE FALSE	FALSE FALSE	FALSE FALSE	3.70 3.70	9.06 9.04	6.85 6.76	54% 55%	41% 41%	76% 75%		1.32 1.34	6.9 6.9	7.0 6.9	204.00	178.00	0.87		11,654	10,169			12,316 12,316	10,538 10,538	1,114 1,114	11,654	10,169		12,316 12,316	10,538 10,538	1,114 1,114
10/19/2011	FALSE	FALSE	FALSE	3.70	9.13	6.77	55%	41%	74%		1.35	6.9	6.8				22.16			1,251		12,412	10,538	1,114			1,251	12,412	10,538	1,114
10/21/2011	FALSE	FALSE	FALSE	3.60	8.30	6.74	53%	43%	81%		1.23	6.9	6.8	229.00				12,872				12,512	10,689	1,141	12,872			12,512	10,689	1,141
10/22/2011 10/23/2011	FALSE FALSE	FALSE FALSE	FALSE FALSE	3.70 3.33	8.90 9.71	6.52 6.61	57% 50%	42% 34%	73% 68%		1.37 1.47	6.9 6.9	6.7 6.7									12,512 12,417	10,689 10,689	1,141 1,140				12,512 12,417	10,689 10,689	1,141 1,140
10/24/2011	FALSE	FALSE	FALSE	3.34	10.32	7.02	48%	32%	68%		1.47	7.0	6.8	269.00				15,749				12,625	10,689	1,140	15,749			12,625	10,689	1,140
10/25/2011 10/26/2011	FALSE FALSE	FALSE FALSE	FALSE FALSE	3.41 3.29	10.03 10.34	6.80 6.76	50% 49%	34% 32%	68% 65%		1.48 1.53	7.0 7.0	6.8 6.7	234.00	174.00	0.74		13,271	9,868			12,663 12,663	10,586 10,586	1,140 1,140	13,271	9,868		12,663 12,663	10,586 10,586	1,140 1,140
10/20/2011	FALSE	FALSE	FALSE	3.33	9.82	6.75	49%	34%	69%		1.45	7.0	6.7	505.00			22.20	28,429		1,250	TSS	12,628	10,586	1,140	28,429		1,250	12,628	10,586	1,162
10/28/2011	FALSE	FALSE	FALSE	3.65	8.93	6.79	54%	41%	76%		1.32	7.0	6.7	235.00	224.00	0.95		13,308	12,685			12,763	10,976	1,162	13,308	12,685		12,763	10,976	1,162
10/29/2011 10/30/2011	FALSE FALSE	FALSE FALSE	FALSE FALSE	3.67 3.56	9.38 8.95	6.71 6.60	55% 54%	39% 40%	72% 74%		1.40 1.36	7.0 7.0	6.7 6.8									12,763 12,752	10,976 10,976	1,162 1,145				12,763 12,752	10,976 10,976	1,162 1,145
10/31/2011	FALSE	FALSE	FALSE	3.72	8.41	6.54	57%	44%	78%		1.29	7.0	6.7	209.00				11,400				12,829	11,072	1,145	11,400			12,829	11,072	1,145
11/1/2011 11/2/2011	FALSE FALSE	FALSE FALSE	FALSE FALSE	3.54 3.79	8.62 8.84	6.59 6.77	54% 56%	41% 43%	76% 77%		1.31 1.31	7.0 7.0	6.7 6.7	271.00	238.00	0.88		14,894	13,081			12,958 12,958	11,324 11,324	1,145 1,145	14,894	13,081		12,958 12,958	11,324 11,324	1,145 1,145
11/3/2011	FALSE	FALSE	TRUE	3.69	8.99	6.78	54%	41%	75%		1.33	7.0	6.7				20.52			1,160		13,007	11,324	1,148			1,160	13,007	11,324	1,148
11/4/2011	FALSE	FALSE	FALSE	3.37	9.79	6.68	50%	34%	68%		1.47	7.0	6.7	264.00	212.00	0.80		14,708	11,811			13,115	11,471	1,148	14,708	11,811		13,115	11,471	1,148
11/5/2011 11/6/2011	FALSE FALSE	FALSE FALSE	TRUE TRUE	3.39 3.81	10.03 9.27	6.82 6.82	50% 56%	34% 41%	68% 74%		1.47 1.36	6.9 6.9	6.7 6.7									13,115 12,974	11,471 11,471	1,148 1,225				13,115 12,974	11,471 11,471	1,148 1,225
11/7/2011	FALSE	FALSE	FALSE	3.93	8.92	6.79	58%	44%	76%		1.31	6.9	6.7	308.00				17,442				13,336	11,625	1,225	17,442			13,336	11,625	1,225
11/8/2011 11/9/2011	FALSE FALSE	FALSE FALSE	FALSE FALSE	3.29 3.39	10.21 10.43	6.71 6.70	49% 51%	32% 33%	66% 64%		1.52 1.56	6.8 6.8	6.7 6.8	202.00 186.00	180.00	0.97		11,304 10,393	10,058			13,201 13,025	11,625 11,429	1,225 1,225	11,304 10,393	10,058		13,201 13,025	11,625 11,429	1,225 1,225
11/10/2011	FALSE	FALSE	FALSE	3.32	9.63	6.62	50%	34%	69%		1.45	6.8	6.7	228.00	100.00	0.57	21.32	12,588	10,030	1,177		13,037	11,429	1,215	12,588	10,030	1,177	13,023	11,374	1,215
11/11/2011	FALSE	FALSE	FALSE	3.59	9.33	6.74	53%	38%	72%		1.38	6.8	6.7									12,979	11,374	1,210				12,979	11,374	1,210
11/12/2011 11/13/2011	FALSE FALSE	FALSE FALSE	FALSE FALSE	3.61 3.37	8.94 10.10	6.43 6.61	56% 51%	40% 33%	72% 65%		1.39 1.53	6.7 6.7	6.7 6.7									12,979 13,076	11,374 11,374	1,210 1,210				12,979 13,076	11,374 11,374	1,210 1,210
11/14/2011	FALSE	FALSE	FALSE	3.39	9.80	6.68	51%	35%	68%		1.47	6.7	6.7	235.00	45-			13,092	4.5			13,117	11,279	1,210	13,092			13,117	11,279	1,210
11/15/2011 11/16/2011	FALSE FALSE	FALSE FALSE	FALSE FALSE	3.37 3.36	9.92 9.89	6.66 6.72	51% 50%	34% 34%	67% 68%		1.49 1.47	6.7 6.7	6.6 6.6	218.00	188.00	0.86		12,109	10,442			13,050 13,050	11,159 11,159	1,210 1,210	12,109	10,442		13,050 13,050	11,159 11,159	1,210 1,210
11/17/2011	FALSE	FALSE	FALSE	3.35	9.54	6.72	50%	35%	70%		1.42	6.7	6.6	210.00			20.85	11,769		1,169		13,104	11,159	1,201	11,769		1,169	13,104	11,159	1,201
11/18/2011	FALSE	TRUE	FALSE	3.44	6.49	6.49	53%	53%	100%	AvgMax	1.00	6.7	6.7	221.00	220.00	1.00		11,962	11,908			13,124	11,407	1,201	11,962	11,908		13,124	11,407	1,201
11/19/2011 11/20/2011	FALSE FALSE	TRUE TRUE	TRUE TRUE	3.43 3.40	9.70 9.60	6.39 6.52	54% 52%	35% 35%	66% 68%		1.52 1.47	6.7 6.7	6.6 6.6									13,124 13,124	11,407 11,407	1,201 1,189				13,124 13,124	11,407 11,407	1,201 1,189
11/21/2011	FALSE	TRUE	FALSE	3.40	9.60	6.69	51%	35%	70%		1.43	6.7	6.6	167.00			18.42	9,318		1,028		12,887	11,407	1,157	9,318		1,028	12,887	11,407	1,157
11/22/2011 11/23/2011	FALSE TRUE	TRUE TRUE	FALSE TRUE	3.90 4.00	8.80 8.70	6.63 6.60	59% 61%	44% 46%	75% 76%		1.33 1.32	6.7 6.7	6.6 6.6	219.00	196.00	0.89		12,055	10,789			12,887 12,835	11,407 11,330	1,157 1,157	12,055	10,789		12,887 12,835	11,407 11,330	1,157 1,157
11/24/2011	TRUE	TRUE	TRUE	4.10	9.30	6.10	67%	44%	66%		1.52	6.7	6.5	213.00	250.50	3.03		12,033	23,733			12,641	11,330	1,157	12,033	20,703		12,641	11,330	1,157
11/25/2011	TRUE	TRUE	TRUE	3.44	8.94	6.07	57%	38%	68%		1.47	6.6	6.4									12,596	11,539	1,157				12,596	11,539	1,157
11/26/2011 11/27/2011	TRUE TRUE	TRUE TRUE	FALSE TRUE	3.44 3.61	9.60 8.59	6.14 6.51	56% 55%	36% 42%	64% 76%		1.56 1.32	6.6 6.6	6.4 6.4									12,596 12,596	11,539 11,539	1,157 1,133				12,596 12,596	11,539 11,539	1,157 1,133
11/28/2011	TRUE	TRUE	FALSE	3.59	8.55	6.72	53%	42%	79%		1.27	6.6	6.4	194.00				10,873				12,422	11,348	1,133	10,873			12,422	11,348	1,133
11/29/2011 11/30/2011	FALSE FALSE	FALSE FALSE	TRUE TRUE	3.75 3.55	8.68 8.94	6.66 6.79	56% 52%	43% 40%	77% 76%		1.30 1.32	6.6 6.6	6.4 6.4	235.00	216.00	0.92		13,053	11,998			12,464 12,464	11,441 11,441	1,133 1,133	13,053	11,998		12,464 12,464	11,441 11,441	1,133 1,133
12/1/2011	FALSE	FALSE	FALSE	3.41	9.59	6.68	51%	36%	70%		1.44	6.6	6.5	195.00			25.57	10,864		1,425			11,441		10,864		1,425	12,428	11,441	1,192

											Diurnal				Influent		Influent											20-d Ava	30-d Avg	30-4 Ava
Date	Butte	CSU	Precip?	Min Influent	Max Influent	Avg Influent	Min % of	Min % of		Flow Outlier	Peak		7-d Avg of Avg Flow.	Influent TSS Conc.,	BOD	BOD/TSS	NH3-N	Avg Inf TSS Load.	Avg Inf BOD Load,	Avg Inf NH3 Load.	Load Outlier	30-d Avg of TSS		30-d Avg of NH3-N				of non-SN	of non-SN	of non-SN
	Break?	Break?				d Flow, mgd	Avg	Max	Max	Туре	Factor (DPF)	Flow, mgd		mg/L	Conc., mg/L	Ratio	Conc., mg/L	ppd	ppd	ppd	Туре			Load, ppd		ppd	ppd	TSS Load, ppd	BOD Load, ppd	NH3-N Load, ppd
12/2/2011	FALSE	FALSE	FALSE	3.78	8.52	6.63	57%	44%	78%		1.29	6.6	6.5	231.00	209.00	0.90		12,773	11,556			12,287	11,223	1,192	12,773	11,556		12,287	11,223	1,192
12/3/2011 12/4/2011	FALSE FALSE	FALSE FALSE	FALSE FALSE	3.67 3.34	9.10 10.10	6.60 6.65	56% 50%	40% 33%	73% 66%		1.38 1.52	6.6 6.6	6.6 6.7									12,287 12,287	11,223 11,223	1,192 1,199				12,287 12,287	11,223 11,223	1,192 1,199
12/5/2011	FALSE	FALSE	FALSE	3.31	9.29	6.71	49%	36%	72%		1.38	6.6	6.7	240.00				13,431				12,202	11,125	1,199	13,431			12,202	11,125	1,199
12/6/2011	FALSE	FALSE	FALSE	3.40	9.88	6.67	51%	34%	68%		1.48	6.6	6.7	209.00	189.00	0.90		11,626	10,514			12,166	11,038	1,199	11,626	10,514		12,166	11,038	1,199
12/7/2011 12/8/2011	FALSE FALSE	FALSE FALSE	FALSE FALSE	3.33 3.33	9.41 9.77	6.73 6.73	49% 49%	35% 34%	72% 69%		1.40 1.45	6.6 6.6	6.7 6.7	202.00			24.19	11,338		1,358		12,166 11,784	11,038 11,038	1,199 1,231	11,338		1,358	12,166 11,784	11,038 11,038	1,199 1,231
12/9/2011	FALSE	FALSE	FALSE	4.03	8.39	7.41	54%	48%	88%	AvgMax	1.13	6.6	6.7									11,816	11,038	1,231				11,816	11,038	1,231
12/10/2011 12/11/2011	FALSE FALSE	FALSE FALSE	FALSE FALSE	3.79 3.52	8.89 9.38	5.97 6.67	63% 53%	43% 38%	67% 71%		1.49 1.41	6.6 6.6	6.6 6.6									11,918 11,866	11,201 11,201	1,231 1,245				11,918 11,866	11,201 11,201	1,231 1,245
12/12/2011	FALSE	FALSE	FALSE	3.66	8.58	6.73	54%	43%	78%		1.27	6.6	6.6	202.00				11,338				11,829	11,201	1,245	11,338			11,829	11,201	1,245
12/13/2011	FALSE	FALSE	FALSE	3.68	8.61	6.76	54%	43%	79%		1.27	6.6	6.6	197.00	217.00	1.10		11,107	12,234			11,780	11,349	1,245	11,107	12,234		11,780	11,349	1,245
12/14/2011 12/15/2011	FALSE FALSE	FALSE FALSE	FALSE TRUE	3.59 3.68	8.76 8.58	6.77 6.68	53% 55%	41% 43%	77% 78%		1.29 1.28	6.6 6.6	6.6 6.6				21.29			1,186		11,780 11,687	11,349 11,349	1,245 1,233			1,186	11,780 11,687	11,349 11,349	1,245 1,233
12/16/2011	TRUE	TRUE	FALSE	3.32	9.63	6.59	50%	34%	68%		1.46	6.6	6.6	230.00	245.00	1.07		12,641	13,465			11,725	11,781	1,233	12,417	13,364		11,709	11,766	1,233
12/17/2011 12/18/2011	TRUE TRUE	TRUE TRUE	FALSE FALSE	3.33 3.76	9.89 8.25	6.39 6.18	52% 61%	34% 46%	65% 75%		1.55 1.33	6.6 6.6	6.6 6.6									11,725 11,721	11,781 11,781	1,233 1,249				11,709 11,704	11,766 11,766	1,233 1,249
12/19/2011	TRUE	TRUE	FALSE	3.74	8.14	6.33	59%	46%	78%		1.29	6.5	6.6	179.00				9,450				11,528	11,759	1,249	9,450			11,511	11,742	1,249
12/20/2011	TRUE	TRUE	FALSE	3.75	8.02	6.21	60%	47%	77%		1.29	6.5	6.5	207.00			22.44	10.224		1 104		11,528	11,759	1,249	10.334		1 104	11,511	11,742	1,249
12/21/2011 12/22/2011	TRUE TRUE	TRUE TRUE	FALSE FALSE	3.35 3.28	8.48 8.73	5.98 5.97	56% 55%	40% 38%	71% 68%		1.42 1.46	6.5 6.5	6.4 6.3	207.00 233.00	239.00	1.03	22.14	10,324 11,601	11,900	1,104		11,442 11,605	11,759 11,779	1,220 1,268	10,324 11,601	11,900	1,104	11,426 11,589	11,742 11,765	1,220 1,268
12/23/2011	TRUE	TRUE	FALSE	3.60	8.45	6.16	58%	43%	73%		1.37	6.5	6.2					,	•			11,605	11,779	1,268	,	•		11,589	11,765	1,268
12/24/2011 12/25/2011	TRUE TRUE	TRUE TRUE	FALSE FALSE	3.58 3.40	8.34 6.60	5.77 5.19	62% 66%	43% 52%	69% 79%		1.45 1.27	6.5 6.4	6.1 6.0									11,571 11,571	11,944 11,944	1,268 1,268				11,553 11,553	11,928 11,928	1,268 1,268
12/26/2011	TRUE	TRUE	FALSE	3.29	9.17	5.94	55%	36%	65%		1.54	6.4	5.9									11,571	11,944	1,268				11,553	11,928	1,268
12/27/2011	TRUE	TRUE	FALSE	3.35	8.99	6.08	55%	37%	68%		1.48	6.4	5.9	281.00	246.00	0.88		14,249	12,474			11,762	12,020	1,268	14,249	12,474		11,746	12,006	1,268
12/28/2011 12/29/2011	TRUE TRUE	TRUE TRUE	FALSE FALSE	3.35 3.40	9.02 10.29	6.08 6.14	55% 55%	37% 33%	67% 60%		1.48 1.68	6.4 6.4	5.9 5.9	224.00			19.28	11,471		987		11,762 11,805	12,020 12,020	1,268 1,212	11,471		987	11,746 11,789	12,006 12,006	1,268 1,212
12/30/2011	TRUE	TRUE	FALSE	3.95	8.10	6.15	64%	49%	76%		1.32	6.4	5.9	270.00				13,849				11,861	12,024	1,212	13,849			11,845	12,007	1,212
12/31/2011 1/1/2012	TRUE TRUE	TRUE TRUE	FALSE FALSE	3.68 3.87	7.97 7.83	6.12 5.83	60% 66%	46% 49%	77% 74%		1.30 1.34	6.3 6.3	5.9 5.9									11,861 11,938	12,024 12,024	1,212 1,159				11,845 11,921	12,007 12,007	1,212 1,159
1/2/2012	TRUE	TRUE	FALSE	3.90	7.70	6.26	62%	51%	81%		1.23	6.3	6.1									11,869	12,024	1,159				11,850	12,007	1,159
1/3/2012	TRUE	TRUE	FALSE	3.60	8.00	6.19	58%	45%	77%		1.29	6.3	6.1	236.00				12,183				11,893	12,117	1,159	12,183			11,876	12,097	1,159
1/4/2012 1/5/2012	TRUE TRUE	TRUE TRUE	FALSE FALSE	3.60 3.60	8.00 8.00	6.25 6.23	58% 58%	45% 45%	78% 78%		1.28 1.28	6.3 6.3	6.1 6.1	261.00			21.03	13,561		1,093		11,893 11,903	12,117 12,117	1,159 1,146	13,561		1,093	11,876 11,886	12,097 12,097	1,159 1,146
1/6/2012	TRUE	TRUE	FALSE	3.33	8.83	6.15	54%	38%	70%		1.44	6.2	6.1	235.00	213.00	0.91	21.03	12,053	10,925	1,033		11,936	12,200	1,146	12,053	10,925	1,033	11,918	12,179	1,146
1/7/2012	TRUE TRUE	TRUE TRUE	FALSE	3.29	9.72 8.36	6.19	53% 55%	34%	64%		1.57	6.2	6.2 6.2									11,936	12,200	1,146				11,918	12,179	1,146
1/8/2012 1/9/2012	TRUE	TRUE	FALSE FALSE	3.41 3.18	8.73	6.20 6.18	51%	41% 36%	74% 71%		1.35 1.41	6.2 6.2	6.2	227.00				11,700				11,985 11,963	12,200 12,200	1,093 1,093	11,700			11,967 11,946	12,179 12,179	1,093 1,093
1/10/2012	TRUE	TRUE	FALSE	3.38	11.17	6.14	55%	30%	55%	AvgMax	1.82	6.2	6.2	260.00	271.00	1.04		13,314	13,877			12,060	12,479	1,093	13,314	13,877		12,044	12,462	1,093
1/11/2012 1/12/2012	TRUE TRUE	TRUE TRUE	FALSE FALSE	3.31 3.31	12.67 8.71	5.99 5.96	55% 56%	26% 38%	47% 68%	AvgMax	2.12 1.46	6.2 6.2	6.2 6.2				21.62			1,075		12,060 12,116	12,479 12,479	1,093 1,089			1,075	12,044 12,098	12,462 12,462	1,093 1,089
1/13/2012	TRUE	TRUE	FALSE	3.41	7.36	5.83	58%	46%	79%		1.26	6.1	6.1	276.00				13,420		2,070		12,293	12,528	1,089	13,420		2,373	12,276	12,508	1,089
1/14/2012	TRUE	TRUE	FALSE	3.38	8.21	5.84	58%	41%	71%		1.41	6.1	6.0									12,293	12,528	1,089				12,276	12,508	1,089
1/15/2012 1/16/2012	TRUE TRUE	TRUE TRUE	FALSE FALSE	3.45 3.44	8.02 8.57	5.74 6.21	60% 55%	43% 40%	72% 72%		1.40 1.38	6.1 6.1	6.0 6.0									12,293 12,264	12,528 12,294	1,065 1,065				12,276 12,264	12,508 12,294	1,065 1,065
1/17/2012	TRUE	TRUE	FALSE	3.21	9.01	6.14	52%	36%	68%		1.47	6.1	6.0				23.37			1,197		12,264	12,294	1,091			1,197	12,264	12,294	1,091
1/18/2012 1/19/2012	TRUE TRUE	TRUE TRUE	FALSE TRUE	3.32 3.27	8.97 9.38	6.18 6.62	54% 49%	37% 35%	69% 71%		1.45 1.42	6.1 6.1	6.0 6.1	261.00				14,410				12,264 12,678	12,294 12,294	1,091 1,091	14,293			12,264 12,668	12,294 12,294	1,091 1,091
1/20/2012	TRUE	TRUE	TRUE	3.94	12.60	9.19	43%	31%	73%		1.37	6.2	6.5	246.00	227.00	0.92		18,855	17,398			13,153	13,315	1,091	18,855	17,398		13,144	13,315	1,091
1/21/2012	TRUE	TRUE	TRUE	6.06	11.39	8.47	72%	53%	74%	MinAvg	1.34	6.2	6.6									13,389	13,315	1,088				13,379	13,315	1,088
1/22/2012 1/23/2012	TRUE TRUE	TRUE TRUE	TRUE	4.45 5.87	11.95 14.92	9.65 11.45	46% 51%	37% 39%	81% 77%		1.24 1.30	6.3 6.5	7.1 7.9	188.00				17,953				13,551 13,918	13,669 13,669	1,088 1,088	17,953			13,541 13,908	13,669 13,669	1,088 1,088
1/24/2012	FALSE	FALSE	FALSE	4.77	11.08	8.69	55%	43%	78%		1.28	6.6	8.3	147.00	119.00	0.81		10,654	8,624			13,667	12,660	1,088	10,654	8,624		13,658	12,660	1,088
1/25/2012 1/26/2012	FALSE FALSE	FALSE FALSE	TRUE TRUE	4.46 4.52	10.16 9.60	7.96 7.74	56% 58%	44% 47%	78% 81%		1.28 1.24	6.7 6.8	8.5 8.8				14.20			917		13,667 13,667	12,660 12,660	1,088 1,054			917	13,658 13,658	12,660 12,660	1,088 1,054
1/27/2012	FALSE	FALSE	FALSE	4.16	9.43	7.74	56%	44%	79%		1.27	6.8	8.9	188.00	177.00	0.94	17.20	11,634	10,953	317		13,466	12,356	1,054	11,634	10,953	317	13,457	12,356	1,054
1/28/2012	FALSE	FALSE	FALSE	3.91	9.91	7.22	54%	39%	73%		1.37	6.8	8.6									13,466	12,356	1,054				13,457	12,356	1,054
1/29/2012 1/30/2012	FALSE FALSE	FALSE FALSE	FALSE FALSE	4.32 3.99	9.31 8.70	7.08 7.03	61% 57%	46% 46%	76% 81%		1.31 1.24	6.9 6.9	8.4 8.1	166.00				9,733				13,632 13,289	12,356 12,356	1,070 1,070	9,733			13,622 13,279	12,356 12,356	1,070 1,070
1/31/2012	FALSE	FALSE	FALSE	3.99	8.64	6.91	58%	46%	80%		1.25	6.9	7.5	209.00	183.00	0.88		12,045	10,546			13,193	12,054	1,070	12,045	10,546		13,184	12,054	1,070
2/1/2012	FALSE FALSE	FALSE FALSE	FALSE FALSE	3.97 4.40	8.73 8.10	6.76 6.79	59% 65%	45% 54%	77% 84%		1.29	7.0 7.0	7.3 7.1				21 57			1 700		13,193	12,054 12,054	1,070 1,214			1 790	13,184 13 184	12,054 12,054	1,070 1,214
2/2/2012	FALSE	FALSE	FALSE	4.40	8.10	6.79	כס%	54%	84%		1.19	7.0	7.1				31.57			1,788		13,193	12,054	1,214			1,788	13,184	12,054	1,214

				Min	Max	Δνα				Flow	Diurnal	20 d Avg	7 d Avg of	Influent	Influent		Influent	Avg Inf	Avalnf	Avalnf	Load	20 d Ava	20 d Avg	20 d Ava	non SN	non-SN	non SN	30-d Avg	30-d Avg	30-d Avg
Date	Butte Break?	CSU Prook?	Precip?	Min Influent	Max : Influent	Avg Influent		Min % of		Flow Outlier	Peak		7-d Avg of Avg Flow,	TSS Conc.,	BOD	BOD/TSS		Avg Inf TSS Load,	Avg Inf BOD Load,	Avg Inf NH3 Load,	Load Outlier	of TSS	of BOD			BOD Load,			of non-SN	
	breakr	Break?		Flow, mg	d Flow, mg	d Flow, mgd	Avg	Max	Max	Туре	Factor (DPF)	Flow, mgd	mgd	mg/L	Conc., mg/L	Ratio	Conc., mg/L	ppd	ppd	ppd	Туре	Load, ppd	Load, ppd	Load, ppd	ppd	ppd	ppd	ppd	BOD Load, ppd	NH3-N Load, ppd
2/3/2012	FALSE	FALSE	FALSE	3.31	9.98	6.73	49%	33%	67%		1.48	7.0	7.0	225.00				12,629				13,228	12,054	1,214	12,629			13,219	12,054	1,214
2/4/2012 2/5/2012	FALSE FALSE	FALSE FALSE	FALSE FALSE	3.21 3.27	10.37 10.44	6.56 6.43	49% 51%	31% 31%	63% 62%		1.58 1.62	7.0 7.0	6.9 6.8									13,228 13,200	12,054 12,054	1,214 1,244				13,219 13,190	12,054 12,054	1,214 1,244
2/6/2012	FALSE	FALSE	FALSE	3.27	9.91	6.64	49%	33%	67%		1.49	7.0	6.7	251.00				13,900				13,354	12,280	1,244	13,900			13,344	12,280	1,244
2/7/2012	FALSE	FALSE	TRUE	3.46	10.15	6.81	51%	34%	67%		1.49	7.1	6.7	221.00	210.00	0.95		12,552	11,927			13,292	12,221	1,244	12,552	11,927		13,283	12,221	1,244
2/8/2012 2/9/2012	FALSE FALSE	FALSE FALSE	FALSE FALSE	3.44 3.35	9.77 9.80	6.69 6.63	51% 51%	35% 34%	68% 68%		1.46 1.48	7.1 7.1	6.7 6.7	227.00			19.42	12,552		1,074		13,292 13,358	12,221 12,221	1,244 1,210	12,552		1,074	13,283 13,349	12,221 12,221	1,244 1,210
2/10/2012	FALSE	FALSE	TRUE	4.12	7.79	6.60	62%	53%	85%		1.18	7.1	6.6	306.00	219.00	0.72	13.42	16,843	12,055	1,074		13,629	11,917	1,210	16,843	12,055	1,074	13,620	11,917	1,210
2/11/2012	FALSE	FALSE	FALSE	4.58	8.29	6.46	71%	55%	78%	inAvgMinM	1.28	7.1	6.6									13,629	11,917	1,210				13,620	11,917	1,210
2/12/2012	FALSE FALSE	FALSE FALSE	TRUE TRUE	3.69 4.19	9.29	6.78 7.36	54% 57%	40% 45%	73% 80%		1.37 1.25	7.1 7.2	6.7 6.8	218.00				13,381				13,629 13,626	11,917 11,917	1,244 1,244	13,381			13,620 13,617	11,917 11,917	1,244 1,244
2/13/2012 2/14/2012	FALSE	FALSE	FALSE	4.19	9.21 8.90	7.30	59%	47%	79%		1.25	7.2	6.8	208.00	195.00	0.94		12,264	11,498			13,529	11,917	1,244	12,264	11,498		13,520	11,857	1,244
2/15/2012	FALSE	FALSE	FALSE	3.94	9.08	7.03	56%	43%	77%		1.29	7.3	6.9					,	·			13,529	11,857	1,244	,	•		13,520	11,857	1,244
2/16/2012	FALSE	FALSE	FALSE	3.76	8.93	6.76	56%	42%	76%		1.32	7.3	6.9	211.00	247.00	1.04	17.46	11,896	12.120	984		13,420	11,857	1,192	11,896	12.120	984	13,412	11,857	1,192
2/17/2012 2/18/2012	FALSE FALSE	FALSE FALSE	FALSE FALSE	3.34 3.34	10.04 10.31	6.70 6.50	50% 51%	33% 32%	67% 63%		1.50 1.59	7.3 7.3	6.9 6.9	209.00	217.00	1.04		11,679	12,126			13,311 13,311	11,891 11,891	1,191 1,191	11,679	12,126		13,304 13,304	11,891 11,891	1,191 1,191
2/19/2012	FALSE	FALSE	FALSE	3.23	10.12	6.39	51%	32%	63%		1.58	7.3	6.8									13,238	11,891	1,191				13,238	11,891	1,191
2/20/2012	FALSE	FALSE	FALSE	3.60	9.30	6.86	52%	39%	74%		1.36	7.2	6.8									12,837	11,104	1,191				12,837	11,104	1,191
2/21/2012 2/22/2012	FALSE FALSE	FALSE FALSE	FALSE FALSE	3.35 3.40	10.09 10.00	6.65 6.57	50% 52%	33% 34%	66% 66%		1.52 1.52	7.2 7.1	6.7 6.7	246.00	207.00	0.84		13,643	11,480			12,890 12,890	11,151 11,151	1,191 1,191	13,643	11,480		12,890 12,890	11,151 11,151	1,191 1,191
2/23/2012	FALSE	FALSE	FALSE	3.40	10.00	6.56	52%	34%	66%		1.52	6.9	6.6	243.00			19.75	13,295		1,081		12,580	11,151	1,169	13,295		1,081	12,580	11,151	1,169
2/24/2012	FALSE	FALSE	FALSE	3.62	8.42	6.41	56%	43%	76%		1.31	6.9	6.6									12,717	11,512	1,169				12,717	11,512	1,169
2/25/2012 2/26/2012	FALSE FALSE	FALSE FALSE	FALSE FALSE	3.49 3.44	9.00 9.19	6.33 6.36	55% 54%	39% 37%	70% 69%		1.42 1.44	6.8 6.8	6.5 6.5									12,717 12,717	11,512 11,512	1,169 1,232				12,717 12,717	11,512 11,512	1,169 1,232
2/20/2012	FALSE	FALSE	FALSE	3.39	8.54	6.51	52%	40%	76%		1.31	6.7	6.5									12,717	11,605	1,232				12,717	11,605	1,232
2/28/2012	FALSE	FALSE	FALSE	3.62	8.53	6.61	55%	42%	77%		1.29	6.7	6.5	239.00	216.00	0.90		13,175	11,908			12,828	11,648	1,232	13,175	11,908		12,828	11,648	1,232
2/29/2012	FALSE	FALSE	TRUE	3.66	8.54	6.71	55%	43%	79%		1.27	6.7	6.5	220.00			24.44	42.756		4.472		12,828	11,648	1,232	42.756		4.472	12,828	11,648	1,232
3/1/2012 3/2/2012	FALSE FALSE	FALSE FALSE	TRUE FALSE	3.32 3.50	8.78 8.70	6.65 6.55	50% 53%	38% 40%	76% 75%		1.32 1.33	6.7 6.7	6.5 6.5	230.00 252.00	200.00	0.79	21.14	12,756 13,766	10,925	1,172		13,044 13,167	11,648 11,703	1,220 1,220	12,756 13,766	10,925	1,172	13,044 13,167	11,648 11,703	1,220 1,220
3/3/2012	FALSE	FALSE	FALSE	3.50	8.80	6.30	56%	40%	72%		1.40	6.7	6.5									13,167	11,703	1,220				13,167	11,703	1,220
3/4/2012	FALSE	FALSE	FALSE	3.30	9.03	6.31	52%	37%	70%		1.43	6.6	6.5									13,167	11,703	1,078				13,167	11,703	1,078
3/5/2012 3/6/2012	FALSE FALSE	FALSE FALSE	FALSE FALSE	3.50 3.60	8.40 8.30	6.56 6.52	53% 55%	42% 43%	78% 79%		1.28 1.27	6.6 6.6	6.5 6.5	268.00	196.00	0.73		14,573	10,658			13,208 13,305	11,703 11,572	1,078 1,078	14,573	10,658		13,208 13,305	11,703 11,572	1,078 1,078
3/7/2012	FALSE	FALSE	FALSE	3.60	8.50	6.49	55%	42%	76%		1.31	6.6	6.5	200.00	130.00	0.73		14,575	10,030			13,305	11,572	1,078	14,575	10,030		13,305	11,572	1,078
3/8/2012	FALSE	FALSE	FALSE	3.50	8.60	6.40	55%	41%	74%		1.34	6.6	6.5				21.44			1,144		13,260	11,572	1,091			1,144	13,260	11,572	1,091
3/9/2012	FALSE FALSE	FALSE FALSE	FALSE	3.43	8.53	6.40	54%	40%	75%		1.33	6.6	6.4									13,319	11,521	1,091				13,319	11,521	1,091
3/10/2012 3/11/2012	FALSE	FALSE	FALSE FALSE	3.38 3.60	8.66 8.50	6.08 6.38	56% 56%	39% 42%	70% 75%		1.42 1.33	6.6 6.6	6.4 6.4									13,319 13,388	11,521 11,521	1,091 1,095				13,319 13,388	11,521 11,521	1,091 1,095
3/12/2012	FALSE	FALSE	FALSE	3.60	7.67	6.46	56%	47%	84%		1.19	6.6	6.4	265.00				14,277				13,155	11,432	1,095	14,277			13,155	11,432	1,095
3/13/2012	FALSE	FALSE	TRUE	3.59	9.35	7.28	49%	38%	78%		1.28	6.6	6.5	238.00	200.00	0.07		14,450	45 422			13,263	11,432	1,095	14,450	45 433		13,263	11,432	1,095
3/14/2012 3/15/2012	FALSE FALSE	FALSE FALSE	TRUE TRUE	4.82 4.85	11.07 10.50	8.89 8.59	54% 56%	44% 46%	80% 82%		1.25 1.22	6.7 6.7	6.8 7.1	238.00	208.00	0.87	13.50	17,646	15,422	967		13,600 13,618	12,002 12,002	1,095 1,070	17,646	15,422	967	13,600 13,618	12,002 12,002	1,095 1,070
3/16/2012	FALSE	TRUE	TRUE	5.41	11.33	8.58	63%	48%	76%		1.32	6.8	7.3	191.00	180.00	0.94		13,667	12,880			13,735	12,200	1,070	13,667	12,880		13,735	12,200	1,070
3/17/2012	FALSE	TRUE	FALSE	4.33	11.76	8.02	54%	37%	68%		1.47	6.8	7.5									13,735	12,200	1,070				13,735	12,200	1,070
3/18/2012 3/19/2012	FALSE FALSE	FALSE FALSE	TRUE FALSE	3.82 3.71	12.74 11.63	8.08 7.72	47% 48%	30% 32%	63% 66%		1.58 1.51	6.8 6.9	7.8 8.0	203.00				13,070				13,903 14,029	12,200 12,212	1,091 1,091	13,070			13,903 14,029	12,200 12,212	1,091 1,091
3/20/2012	FALSE	FALSE	FALSE	3.57	9.95	7.72	50%	36%	71%		1.40	6.9	8.0	163.00	152.00	0.93		9,665	9,013			13,665	11,755	1,091	9,665	9,013		13,665	11,755	1,091
3/21/2012	FALSE	FALSE	FALSE	3.57	9.69	6.86	52%	37%	71%		1.41	6.9	8.0									13,665	11,755	1,091				13,665	11,755	1,091
3/22/2012	FALSE	FALSE	TRUE	3.39	9.56	6.71	51%	35%	70%		1.42	6.9	7.7	221.00	100.00	0.02	17.95	12,367	10.000	1,005		13,566	11,755	1,074	12,367	10.000	1,005	13,566	11,755	1,074
3/23/2012 3/24/2012	FALSE FALSE	FALSE FALSE	FALSE FALSE	4.17 4.07	8.21 8.21	6.66 6.61	63% 62%	51% 50%	81% 81%		1.23 1.24	6.9 6.9	7.5 7.2	216.00	198.00	0.92		11,998	10,998			13,439 13,439	11,686 11,686	1,074 1,074	11,998	10,998		13,439 13,439	11,686 11,686	1,074 1,074
3/25/2012	FALSE	FALSE	TRUE	3.48	10.94	7.29	48%	32%	67%		1.50	6.9	7.1									13,451	11,686	1,072				13,451	11,686	1,072
3/26/2012	FALSE	FALSE	TRUE	3.66	9.76	7.31	50%	38%	75%	h 4: •	1.34	6.9	7.0	202.00	402.22	4.05		12,315	44.00=			13,364	11,686	1,072	12,315	44.00=		13,364	11,686	1,072
3/27/2012 3/28/2012	FALSE FALSE	TRUE TRUE	TRUE TRUE	3.77 5.61	13.34 14.25	9.23 10.97	41% 51%	28% 39%	69% 77%	MinAvg	1.45 1.30	7.0 7.1	6.9 7.5	181.00	183.00	1.01		13,933	14,087			13,404 13,404	11,986 11,986	1,072 1,072	13,933	14,087		13,404 13,404	11,986 11,986	1,072 1,072
3/29/2012	FALSE	FALSE	TRUE	4.76	12.14	9.19	52%	39%	76%		1.32	7.1	7.8	178.00			9.28	13,643		711		13,420	11,986	1,000	13,643		711	13,420	11,986	1,000
3/30/2012	FALSE	FALSE	FALSE	4.21	12.29	8.61	49%	34%	70%		1.43	7.3	8.1	167.00	165.00	0.99		11,992	11,848			13,341	11,979	1,000		11,745		13,323	11,966	1,000
3/31/2012 4/1/2012	FALSE FALSE	FALSE FALSE	TRUE FALSE	3.91 4.30	12.89 10.90	8.60 8.04	45% 53%	30% 39%	67%		1.50 1.36	7.3	8.4 8.6									13,341 13,383	11,979 11,979	1,000 957				13,323 13,363	11,966 11,966	1,000 957
4/1/2012	FALSE	FALSE	FALSE	4.30	10.90	7.91	51%	38%	74% 76%		1.31	7.4 7.4	8.7	186.00				12,270				13,383	12,129	957	12,270			13,363	12,115	957
4/3/2012	FALSE	FALSE	TRUE	4.20	10.00	7.70	55%	42%	77%		1.30	7.5	8.7	204.00	200.00	0.98		13,100	12,844			13,265	12,219	957	13,100	12,844		13,246	12,206	957
4/4/2012	FALSE	FALSE	FALSE	4.20	10.10	7.52	56%	42%	74%		1.34	7.5	8.6				24.42			1 206		13,265	12,219	957			1.200	13,246	12,206	957
4/5/2012	FALSE	FALSE	FALSE	3.70	9.60	7.28	51%	39%	76%		1.32	7.5	8.1				21.18			1,286		13,265	12,219	1,023			1,286	13,246	12,206	1,023

											Diurnal				Influent		Influent											30-d Avg	30-d Avg	30-d Avg
Date	Butte Break?	CSU Break?	Precip?	Min Influent	Max Influent	Avg Influent		Min % of		Flow Outlier	Peak	30-d Avg of Avg		TSS Conc.,	BOD	BOD/TSS	NH3-N	Avg Inf TSS Load,	Avg Inf BOD Load,	Avg Inf NH3 Load,	Load Outlier	30-d Avg of TSS		30-d Avg of NH3-N				of non-SN	of non-SN	of non-SN
	DIEGKT	DIEdKI		Flow, mg	d Flow, mgd	Flow, mgd	Avg	Max	Max	Туре	Factor (DPF)	Flow, mgd	mgd	mg/L	Conc., mg/L	Ratio	Conc., mg/L	ppd	ppd	ppd	Type	Load, ppd	Load, ppd	Load, ppd	ppd	ppd	ppd	ppd	BOD Load, ppd	NH3-N Load, ppd
4/6/2012	FALSE	FALSE	FALSE	3.66	9.80	7.15	51%	37%	73%		1.37	7.6	7.9 7.6	209.00	212.00	1.01		12,463	12,642			13,124	12,467	1,023	12,463	12,642		13,105	12,454	1,023
4/7/2012 4/8/2012	FALSE FALSE	FALSE FALSE	FALSE FALSE	3.42 3.50	9.65 9.20	6.74 6.50	51% 54%	35% 38%	70% 71%		1.43 1.42	7.6 7.6	7.6									13,124 13,124	12,467 12,467	1,023 992				13,105 13,105	12,454 12,454	1,023 992
4/9/2012	FALSE	FALSE	FALSE	3.51	9.72	6.97	50%	36%	72%		1.39	7.6	7.2	190.00				11,045				12,994	12,467	992	11,045			12,977	12,454	992
4/10/2012 4/11/2012	FALSE FALSE	FALSE FALSE	TRUE TRUE	3.49 3.80	9.44 9.48	6.99 7.13	50% 53%	37% 40%	74% 75%		1.35 1.33	7.6 7.6	7.1 7.0	216.00	214.00	0.99		12,592	12,475			12,970 12,970	12,468 12,468	992 992	12,592	12,475		12,954 12,954	12,456 12,456	992 992
4/12/2012	FALSE	FALSE	TRUE	3.56	10.46	7.37	48%	34%	70%		1.42	7.7	7.0	221.00			19.54	13,584		1,201		12,929	12,468	1,034	13,584		1,201	12,913	12,456	1,034
4/13/2012 4/14/2012	FALSE FALSE	FALSE FALSE	TRUE FALSE	4.14 4.40	10.25 10.24	8.24 7.57	50% 58%	40% 43%	80% 74%		1.24 1.35	7.7 7.7	7.1 7.2	199.00	195.00	0.98		13,676	13,401			12,884 12,586	12,561 12,243	1,034 1,034	13,676	13,401		12,868 12,569	12,551 12,232	1,034 1,034
4/15/2012	FALSE	FALSE	FALSE	3.59	10.24	7.37	49%	35%	71%		1.41	7.6	7.2									12,586	12,243	1,054				12,569	12,232	1,051
4/16/2012	FALSE	FALSE	FALSE	3.61	9.94	7.21	50%	36%	73%		1.38	7.6	7.4	121.00			14.66	7,276		882		12,187	12,163	1,017	7,276		882	12,170	12,151	1,017
4/17/2012 4/18/2012	FALSE FALSE	FALSE FALSE	FALSE FALSE	3.65 3.54	9.81 9.58	7.18 7.00	51% 51%	37% 37%	73% 73%		1.37 1.37	7.6 7.5	7.4 7.4	199.00	199.00	1.00		11,916	11,916			12,171 12,171	12,136 12,136	1,017 1,017	11,916	11,916		12,155 12,155	12,125 12,125	1,017 1,017
4/19/2012	FALSE	FALSE	FALSE	3.70	9.60	7.24	51%	39%	75%		1.33	7.5	7.4	288.00				17,390				12,425	12,136	1,017	17,390			12,409	12,125	1,017
4/20/2012	FALSE FALSE	FALSE FALSE	FALSE FALSE	3.50	9.20 9.47	6.84	51% 52%	38% 36%	74% 69%		1.35 1.44	7.5 7.5	7.3 7.1	227.00	199.00	0.88		12,949	11,352			12,618	12,396	1,017	12,949	11,352		12,602	12,384	1,017 1,017
4/21/2012 4/22/2012	FALSE	FALSE	FALSE	3.42 3.42	9.47	6.57 6.69	51%	36%	71%		1.44	7.5	7.1									12,618 12,634	12,396 12,396	1,017 1,020				12,602 12,617	12,384 12,384	1,017
4/23/2012	FALSE	FALSE	FALSE	3.39	9.22	6.81	50%	37%	74%		1.35	7.5	6.9	225.00				12,779				12,683	12,571	1,020	12,779			12,665	12,558	1,020
4/24/2012 4/25/2012	FALSE FALSE	FALSE FALSE	FALSE TRUE	3.54 3.59	8.55 9.21	6.73 6.94	53% 52%	41% 39%	79% 75%		1.27 1.33	7.5 7.5	6.9 6.9	273.00	193.00	0.71		15,323	10,833			12,838 12,838	12,378 12,378	1,020 1,020	15,323	10,833		12,822 12,822	12,366 12,366	1,020 1,020
4/26/2012	FALSE	FALSE	TRUE	3.94	9.52	7.15	55%	41%	75%		1.33	7.5	6.9				31.82			1,897		12,871	12,378	1,195			1,897	12,853	12,366	1,195
4/27/2012	FALSE	FALSE	FALSE	3.55	10.01	7.01	51%	35%	70%		1.43	7.5	6.8	215.00	192.00	0.89		12,570	11,225			12,785	12,060	1,195	12,570	11,225		12,768	12,048	1,195
4/28/2012 4/29/2012	FALSE FALSE	FALSE FALSE	FALSE FALSE	3.48 3.44	9.60 9.02	6.60 6.53	53% 53%	36% 38%	69% 72%		1.45 1.38	7.3 7.2	6.8 6.8									12,785 12,728	12,060 12,060	1,195 1,316				12,768 12,710	12,048 12,048	1,195 1,316
4/30/2012	FALSE	FALSE	FALSE	3.46	8.72	6.74	51%	40%	77%		1.29	7.2	6.8									12,781	12,086	1,316				12,781	12,086	1,316
5/1/2012 5/2/2012	FALSE FALSE	FALSE FALSE	FALSE FALSE	3.55 3.51	8.83 8.99	6.76 6.82	53% 51%	40% 39%	77% 76%		1.31 1.32	7.1 7.1	6.8	277.00	212.00	0.77		15,617	11,952			12,970 12,970	12,071 12,071	1,316 1,316	15,617	11,952		12,970 12,970	12,071 12,071	1,316 1,316
5/3/2012	FALSE	FALSE	FALSE	3.61	8.79	6.81	53%	41%	77%		1.29	7.0	6.8	204.00			20.13	11,586		1,143		12,970	12,071	1,282	11,586		1,143	12,970	12,071	1,282
5/4/2012	FALSE	FALSE	FALSE	3.60	9.20	6.64	54%	39%	72%		1.39	7.0	6.7	286.00	199.00	0.70		15,838	11,020			13,107	11,868	1,282	15,838	11,020		13,107	11,868	1,282
5/5/2012 5/6/2012	FALSE FALSE	FALSE FALSE	FALSE FALSE	3.40 3.47	9.60 9.25	6.66 6.59	51% 53%	35% 38%	69% 71%		1.44 1.40	7.0 7.0	6.7 6.7									13,107 13,107	11,868 11,868	1,282 1,281				13,107 13,107	11,868 11,868	1,282 1,281
5/7/2012	FALSE	FALSE	FALSE	3.51	8.83	6.75	52%	40%	76%		1.31	6.9	6.7	208.00				11,709				13,057	11,772	1,281	11,709			13,057	11,772	1,281
5/8/2012	FALSE	FALSE FALSE	FALSE	3.47	9.23	6.72	52%	38% 39%	73%		1.37	6.9	6.7 6.7	232.00	202.00	0.87		13,002	11,321			13,053	11,722	1,281	13,002	11,321		13,053	11,722	1,281
5/9/2012 5/10/2012	FALSE FALSE	FALSE	FALSE FALSE	3.55 3.49	9.03 8.86	6.64 6.64	53% 53%	39%	74% 75%		1.36 1.33	6.9 6.9	6.7	122.00			22.32	6,756		1,236		13,053 12,785	11,722 11,722	1,281 1,272	6,756		1,236	13,053 12,785	11,722 11,722	1,281 1,272
5/11/2012	FALSE	FALSE	FALSE	3.56	8.59	6.60	54%	41%	77%		1.30	6.9	6.7	273.00	210.00	0.77		15,027	11,559			12,937	11,620	1,272	15,027	11,559		12,937	11,620	1,272
5/12/2012 5/13/2012	FALSE FALSE	FALSE FALSE	FALSE FALSE	3.57 3.50	8.83 9.10	6.38 6.52	56% 54%	40% 38%	72% 72%		1.38 1.40	6.9 6.9	6.6 6.6									12,937 12,894	11,620 11,620	1,272 1,290				12,937 12,894	11,620 11,620	1,272 1,290
5/14/2012	FALSE	FALSE	FALSE	3.50	8.50	6.68	52%	41%	79%		1.27	6.8	6.6	212.00				11,811				12,770	11,397	1,290	11,811			12,770	11,397	1,290
5/15/2012	FALSE	FALSE	FALSE	3.56	8.91	6.72	53%	40%	75%		1.33	6.8	6.6	231.00	170.00	0.74		12,946	9,528			12,781	11,190	1,290	12,946	9,528		12,781	11,190	1,290
5/16/2012 5/17/2012	FALSE FALSE	FALSE FALSE	FALSE FALSE	3.55 3.63	8.90 8.69	6.74 6.74	53% 54%	40% 42%	76% 78%		1.32 1.29	6.8 6.8	6.6 6.6	284.00			21.07	15,964		1,184		12,781 13,324	11,190 11,190	1,290 1,365	15,964		1,184	12,781 13,324	11,190 11,190	1,290 1,365
5/18/2012	FALSE	FALSE	FALSE	3.55	8.76	6.65	53%	41%	76%		1.32	6.7	6.6	241.00	185.00	0.77		13,366	10,260	·		13,415	11,006	1,365	13,366	10,260		13,415	11,006	1,365
5/19/2012 5/20/2012	FALSE FALSE	FALSE FALSE	FALSE FALSE	3.56 3.51	8.81 8.85	6.45 6.47	55% 54%	40% 40%	73% 73%		1.37 1.37	6.7 6.7	6.6 6.6									13,415 13,150	11,006 11,006	1,365 1,365				13,415 13,150	11,006 11,006	1,365 1,365
5/21/2012	FALSE	FALSE	FALSE	3.58	8.18	6.53	55%	44%	80%		1.25	6.7	6.6	238.00				12,962				13,150	10,962	1,365	12,962			13,150	10,962	1,365
5/22/2012	FALSE	FALSE	FALSE	2.56	6.35	6.42	F.C.0/	420/		gMinMaxA	0.00	6.7	6.6	218.00			20.79	11,672		1,113		13,058	10,962	1,315	11,672		1,113	13,058	10,962	1,315
5/23/2012 5/24/2012	FALSE FALSE	FALSE FALSE	FALSE FALSE	3.56 3.54	8.25 8.42	6.37 6.44	56% 55%	43% 42%	77% 76%		1.30 1.31	6.7 6.7	6.6 6.5	225.00				12,085				13,058 13,015	10,962 10,962	1,315 1,315	12,085			13,058 13,015	10,962 10,962	1,315 1,315
5/25/2012	TRUE	FALSE	FALSE	3.80	8.02	6.30	60%	47%	79%		1.27	6.7	6.5	264.00	218.00	0.83		13,871	11,454			12,924	11,040	1,315		11,454		12,924	11,040	1,315
5/26/2012 5/27/2012	TRUE TRUE	FALSE TRUE	TRUE FALSE	3.60 3.61	8.30 8.12	6.06 5.82	59% 62%	43% 44%	73% 72%		1.37	6.6 6.6	6.4 6.3									12,924	11,040 11,040	1,315 1,169				12,924 12,924	11,040 11,040	1,315 1,169
5/27/2012 5/28/2012	TRUE	TRUE	FALSE	3.55	8.12	6.01	59%	44%	72%		1.40 1.38	6.5	6.2									12,924 12,948	11,040	1,169				12,924	11,040	1,169
5/29/2012	TRUE	TRUE	FALSE	3.46	9.57	6.08	57%	36%	64%		1.57	6.5	6.2	137.00	188.00	1.37		6,947	9,533			12,572	10,828	1,169	6,947	9,533		12,572	10,828	1,169
5/30/2012 5/31/2012	TRUE TRUE	TRUE TRUE	FALSE FALSE	3.33 3.64	7.77 7.79	6.08 6.12	55% 59%	43% 47%	78% 79%		1.28 1.27	6.5 6.5	6.1 6.1	218.00			20.53	11,127		1,048		12,572 12,487	10,828 10,828	1,169 1,145	11,127		1,048	12,572 12,487	10,828 10,828	1,169 1,145
6/1/2012	TRUE	TRUE	FALSE	3.75	7.79	6.04	62%	48%	78%		1.29	6.5	6.1	149.00	178.00	1.19		7,506	8,967	,		12,010	10,455	1,145	7,506	8,967	,	12,010	10,455	1,145
6/2/2012	TRUE	TRUE	FALSE	3.57	8.09	5.90	61%	44%	73%		1.37	6.4	6.0									12,010	10,455	1,145				12,010	10,455	1,145
6/3/2012 6/4/2012	TRUE TRUE	TRUE TRUE	FALSE TRUE	3.80 3.90	7.60 7.93	5.92 6.33	64% 62%	50% 49%	78% 80%		1.28 1.25	6.4	6.0 6.1	227.00				11,984				12,037 11,796	10,455 10,375	1,145 1,145	11,984			12,037 11,796	10,455 10,375	1,145 1,145
6/5/2012	TRUE	TRUE	FALSE	3.66	7.60	6.16	59%	48%	81%		1.23	6.4	6.1	220.00	185.00	0.84		11,302	9,504			11,767	10,266	1,145	11,302	9,504		11,767	10,266	1,145
6/6/2012 6/7/2012	TRUE TRUE	TRUE TRUE	FALSE FALSE	3.70 3.63	7.40 7.69	6.07 6.11	61% 59%	50% 47%	82% 79%		1.22 1.26	6.4 6.3	6.1 6.1				19.24			980		11,767 11,771	10,266 10,266	1,145 1,112			980	11,767 11,771	10,266 10,266	1,145 1,112
0///2012	INUE	INUE	FALSE	3.03	7.09	0.11	J370	4/70	1370		1.20	0.5	0.1				15.24			300		11,//1	10,200	1,112			300	11,//1	10,200	1,112

				Min	Max	Ανσ				Flow	Diurnal	30-d Avg	7-d Avg of	Influent	Influent		Influent	Avg Inf	Avg Inf	Avg Inf	Load	30-d Avg	30-d Avg	30-d Avg	non-SN	non-SN	non-SN	30-d Avg	30-d Avg	30-d Avg
Date	Butte Break?	CSU Break?	Precip?	Influent		Avg Influent	Min % of Avg	Min % of Max	Avg % of Max	Outlier	Peak Factor			TSS Conc.,	BOD Conc	BOD/TSS Ratio	NH3-N Conc.,		BOD Load,		Outlier	of TSS				BOD Load,			of non-SN BOD Load,	
	Dreum.	Dreak.		Flow, mgd	l Flow, mgc	d Flow, mgd		iviax	max	Туре	(DPF)	Flow, mgd	mgd	mg/L	mg/L	natio	mg/L	ppd	ppd	ppd	Туре	Load, ppd	Load, ppd	Load, ppd	ppd	ppd	ppd	ppd	ppd	Load, ppd
6/8/2012	TRUE	TRUE	FALSE	3.60	7.88	5.98	60%	46%	76%		1.32	6.3	6.1	218.00	204.00	0.94		10,872	10,174			11,637	10,122	1,112	10,872	10,174		11,637	10,122	1,112
6/9/2012 6/10/2012	TRUE TRUE	TRUE TRUE	FALSE FALSE	3.51 3.57	7.92 7.63	5.74 5.76	61% 62%	44% 47%	72% 75%		1.38 1.32	6.3 6.3	6.0 6.0									11,637 11,963	10,122 10,122	1,112 1,081				11,637 11,963	10,122 10,122	1,112 1,081
6/11/2012	TRUE	TRUE	FALSE	3.63	7.91	6.07	60%	46%	77%		1.30	6.2	6.0	243.00				12,302				11,781	9,917	1,081	12,302			11,781	9,917	1,081
6/12/2012 6/13/2012	TRUE TRUE	TRUE TRUE	FALSE FALSE	3.63 3.72	7.71 7.46	6.05 6.04	60% 62%	47% 50%	78% 81%		1.27 1.24	6.2 6.2	6.0	238.00	197.00	0.83		12,009	9,940			11,795 11,795	9,920 9,920	1,081 1,081	12,009	9,940		11,795 11,795	9,920 9,920	1,081 1,081
6/14/2012	TRUE	TRUE	FALSE	3.76	7.46	6.10	62%	50%	82%		1.22	6.2	6.0				23.26			1,183		11,794	9,920	1,102			1,183	11,794	9,920	1,102
6/15/2012	TRUE	TRUE	FALSE	3.32	7.39	6.01	55%	45%	81%		1.23	6.2	6.0	261.00	199.00	0.76		13,082	9,975			11,803	9,976	1,102	13,082	9,975		11,803	9,976	1,102
6/16/2012 6/17/2012	TRUE TRUE	TRUE TRUE	FALSE FALSE	3.92 3.61	7.42 7.51	5.74 5.72	68% 63%	53% 48%	77% 76%		1.29 1.31	6.1 6.1	5.9 5.9									11,803 11,506	9,976 9,976	1,102 1,081				11,803 11,506	9,976 9,976	1,102 1,081
6/18/2012	TRUE	TRUE	FALSE	3.70	7.13	6.06	61%	52%	85%		1.18	6.1	6.0									11,363	9,935	1,081				11,363	9,935	1,081
6/19/2012	TRUE	TRUE	FALSE	3.80	7.13	5.81	65%	53%	81%		1.23	6.1	5.9	202.00	160.00	0.79	22.10	9,788	7,753	1 122		11,251	9,662	1,081	9,788	7,753	1 172	11,251	9,662	1,081
6/20/2012 6/21/2012	TRUE TRUE	TRUE TRUE	FALSE FALSE	3.44 3.68	7.38 7.08	5.83 5.87	59% 63%	47% 52%	79% 83%		1.27 1.21	6.0 6.0	5.9 5.9	250.00			23.10	12,239		1,123		11,251 11,199	9,662 9,662	1,090 1,090	12,239		1,123	11,251 11,199	9,662 9,662	1,090 1,090
6/22/2012	TRUE	TRUE	FALSE	3.43	7.84	5.91	58%	44%	75%		1.33	6.0	5.9	218.00	188.00	0.86		10,745	9,266			11,133	9,618	1,084	10,745	9,266		11,133	9,618	1,084
6/23/2012 6/24/2012	TRUE TRUE	TRUE TRUE	FALSE FALSE	3.46 3.50	7.38 7.30	5.62 5.64	62% 62%	47% 48%	76% 77%		1.31 1.29	6.0 6.0	5.8 5.8									11,133 11,060	9,618 9,618	1,084 1,084				11,133 11,060	9,618 9,618	1,084 1,084
6/25/2012	TRUE	TRUE	FALSE	3.30	7.50	5.77	57%	44%	77%		1.30	5.9	5.8	241.00				11,597				10,885	9,389	1,084	11,597			10,885	9,389	1,084
6/26/2012	TRUE	TRUE	FALSE	3.22	7.26	5.76	56%	44%	79%		1.26	5.9	5.8	250.00	201.00	0.80		12,010	9,656			10,965	9,419	1,084	11,626	9,537		10,938	9,405	1,084
6/27/2012 6/28/2012	TRUE TRUE	TRUE TRUE	FALSE FALSE	3.30 3.20	7.30 7.50	5.75 5.76	57% 56%	45% 43%	79% 77%		1.27 1.30	5.9 5.9	5.8 5.8	241.00			20.83	11,577		1,001		10,965 11,006	9,419 9,419	1,084 1,067	11,577		1,001	10,938 10,980	9,405 9,405	1,084 1,067
6/29/2012	TRUE	TRUE	FALSE	3.23	7.60	5.75	56%	43%	76%		1.32	5.9	5.7	250.00	201.00	0.80	20.03	11,989	9,639	1,001		11,342	9,430	1,067	11,989	9,639	1,001	11,316	9,417	1,067
6/30/2012	TRUE	TRUE	FALSE	3.27	7.32	5.51	59%	45%	75%		1.33	5.9	5.7									11,342	9,430	1,067				11,316	9,417	1,067
7/1/2012 7/2/2012	TRUE TRUE	TRUE TRUE	FALSE FALSE	3.20 3.34	7.42 7.46	5.50 5.78	58% 58%	43% 45%	74% 77%		1.35 1.29	5.9 5.9	5.7 5.7	224.00				10,798				11,357 11,592	9,430 9,488	1,072 1,072	10,798			11,330 11,565	9,417 9,473	1,072 1,072
7/3/2012	TRUE	TRUE	FALSE	3.30	7.40	5.61	59%	45%	76%		1.32	5.9	5.7	239.00	207.00	0.87		11,182	9,685			11,565	9,510	1,072	11,182	9,685		11,539	9,497	1,072
7/4/2012	TRUE	TRUE	FALSE	3.27	7.72	5.30	62%	42%	69%		1.46	5.8	5.6				10.15			0.40		11,565	9,510	1,072			040	11,539	9,497	1,072
7/5/2012 7/6/2012	TRUE TRUE	TRUE TRUE	FALSE FALSE	3.32 3.30	7.19 7.40	5.60 5.61	59% 59%	46% 45%	78% 76%		1.28 1.32	5.8 5.8	5.6 5.6	212.00	188.00	0.89	18.15	9,919	8,796	848		11,535 11,436	9,510 9,432	1,027 1,027	9,919	8,796	848	11,508 11,409	9,497 9,418	1,027 1,027
7/7/2012	TRUE	TRUE	FALSE	3.30	7.40	5.43	61%	45%	73%		1.36	5.8	5.5									11,436	9,432	1,027				11,409	9,418	1,027
7/8/2012 7/9/2012	TRUE TRUE	TRUE TRUE	FALSE	3.26 3.37	7.44 7.55	5.52 5.88	59% 57%	44% 45%	74% 78%		1.35 1.28	5.8 5.8	5.5 5.6	220.00				10,789				11,436 11,430	9,432 9,339	1,039 1,039	10,789			11,409 11,403	9,418 9,324	1,039 1,039
7/10/2012	TRUE	TRUE	FALSE	3.40	7.34	5.83	58%	46%	79%		1.26	5.8	5.6	176.00	143.00	0.81		8,558	6,953			11,239	9,074	1,039	8,558	6,953		11,213	9,060	1,039
7/11/2012	TRUE	TRUE	FALSE	3.65	7.40	5.85	62%	49%	79%		1.26	5.8	5.6									11,239	9,074	1,039				11,213	9,060	1,039
7/12/2012 7/13/2012	TRUE TRUE	TRUE TRUE	FALSE FALSE	3.43 3.55	7.43 7.62	5.85 5.84	59% 61%	46% 47%	79% 77%		1.27 1.30	5.8 5.8	5.7 5.7	212.00	112.00	0.53	17.19	10,326	5,455	839		11,163 11,043	9,074 8,575	999 999	10,326	5,455	839	11,136 11,015	9,060 8,562	999 999
7/14/2012	TRUE	TRUE	FALSE	3.39	7.58	5.67	60%	45%	75%		1.34	5.7	5.7	212.00	112.00	0.55		10,020	3, .55			11,043	8,575	999	10,020	3, .55		11,015	8,562	999
7/15/2012	TRUE	TRUE	FALSE	3.50	7.40	5.65	62%	47%	76%		1.31	5.7	5.8	465.00			20.42	0.400		000		11,043	8,575	953	0.400		000	11,015	8,562	953
7/16/2012 7/17/2012	TRUE TRUE	TRUE TRUE	FALSE FALSE	3.39 3.60	7.65 7.20	5.95 5.95	57% 61%	44% 50%	78% 83%		1.29 1.21	5.7 5.7	5.8 5.8	165.00 237.00			20.13	8,188 11,761		999		10,693 10,764	8,400 8,400	962 962	8,188 11,761		999	10,666 10,739	8,385 8,385	962 962
7/18/2012	TRUE	TRUE	FALSE	3.50	7.30	5.90	59%	48%	81%		1.24	5.7	5.8									10,764	8,400	962				10,739	8,385	962
7/19/2012 7/20/2012	TRUE TRUE	TRUE TRUE	FALSE FALSE	3.68 2.79	7.27 7.47	5.88 5.81	63% 48%	51% 37%	81% 78%		1.24 1.29	5.7 5.7	5.8 5.8	253.00 273.00				12,407 13,228				10,867 11,082	8,400 8,493	962 962	12,407 13,228			10,843 11,058	8,385 8,476	962 962
7/20/2012	TRUE	TRUE	FALSE	3.38	7.47	5.57	61%	45%	75%		1.34	5.7	5.8	273.00				13,220				11,082	8,493	902	13,220			11,058	8,476	902
7/22/2012	TRUE	TRUE	FALSE	3.37	7.01	5.51	61%	48%	79%		1.27	5.7	5.8									11,005	8,493	921				10,979	8,476	921
7/23/2012 7/24/2012	TRUE TRUE	TRUE TRUE	FALSE FALSE	3.37 3.66	7.23 7.50	5.91 5.88	57% 62%	47% 49%	82% 78%		1.22 1.28	5.7 5.7	5.8 5.8	229.00				11,230				11,023 11,037	8,364 8,364	921 921	11,106			10,996 11,003	8,344 8,344	921 921
7/25/2012		TRUE	FALSE	3.54	7.16	5.84	61%	49%	82%		1.23	5.7	5.8					_2,230				11,037	8,364	921				11,003	8,344	921
7/26/2012	TRUE	TRUE	FALSE	3.43	7.33	5.90	58%	47%	80%		1.24	5.7	5.8	226.00	102.00	0.72	18.77	11,121	0.004	924		11,005	8,364	922	11,121	0.004	924	10,971	8,344	922
7/27/2012 7/28/2012		TRUE TRUE	FALSE FALSE	3.71 3.51	7.51 7.11	5.84 5.51	64% 64%	49% 49%	78% 77%		1.29 1.29	5.7 5.7	5.8 5.7	253.00	182.00	0.72		12,323	8,864			11,026 11,026	8,232 8,232	922 922	12,323	8,864		11,018 11,018	8,232 8,232	922 922
7/29/2012	TRUE	TRUE	FALSE	3.31	7.35	5.63	59%	45%	77%		1.31	5.7	5.8									10,987	8,232	902				10,978	8,232	902
7/30/2012		TRUE TRUE	FALSE FALSE	3.36 3.44	7.30 7.10	5.90 5.85	57% 59%	46% 48%	81%		1.24	5.7 5.7	5.8 5.8	308.00 218.00	171.00	0.78		15,155 10,636	8,343			11,213	7,951	902 902	15,155 10,636	8,343		11,204	7,951	902 902
7/31/2012 8/1/2012	TRUE TRUE	TRUE	FALSE	3.44	11.34	5.85 5.92	59%	31%	82% 52%	AvgMax	1.21 1.92	5.7 5.7	5.8	210.00	1/1.00	0.76		10,030	0,343			11,175 11,175	8,016 8,016	902	10,030	0,343		11,166 11,166	8,016 8,016	902
8/2/2012	TRUE	TRUE	FALSE	3.56	7.14	5.89	60%	50%	82%		1.21	5.7	5.8	250.00			19.10	12,281		938		11,273	8,016	909	12,281		938	11,265	8,016	909
8/3/2012 8/4/2012	TRUE TRUE	TRUE TRUE	FALSE FALSE	3.61 3.52	7.91 7.92	5.88 5.74	61% 61%	46% 44%	74% 72%		1.35 1.38	5.8 5.8	5.8 5.8	272.00				13,339				11,417 11,417	7,682 7,682	909 909	13,339			11,409 11,409	7,682 7,682	909 909
8/5/2012	TRUE	TRUE	FALSE	3.60	7.50	5.79	62%	48%	77%		1.30	5.8	5.8									11,417	7,682	925				11,409	7,682	925
8/6/2012	TRUE	TRUE	FALSE	3.60	7.90	6.07	59%	46%	77%		1.30	5.8	5.9	220.00	467.53	0.0		11,137	0.225			11,498	7,404	925	11,137	0.25=		11,490	7,404	925
8/7/2012 8/8/2012	TRUE TRUE	TRUE TRUE	FALSE FALSE	3.60 3.60	7.90 7.80	5.96 5.90	60% 61%	46% 46%	75% 76%		1.33 1.32	5.8 5.8	5.9 5.9	271.00	165.00	0.61		13,470	8,202			11,622 11,622	7,563 7,563	925 925	13,470	8,202		11,614 11,614	7,563 7,563	925 925
8/9/2012	TRUE	TRUE	FALSE	3.60	7.30	5.89	61%	49%	81%		1.24	5.8	5.9	223.00			22.68	10,954		1,114		11,632	7,563	963	10,954		1,114	11,624	7,563	963

				Min	May	Δνα				Flow	Diurnal	20 d Ava	7-d Avg of	Influent	Influent		Influent	Avg Inf	Avalnf	Avalnf	Load	20 d Ava	20 d Avg	30-d Avg	non SN	non SN	non SN	30-d Avg	30-d Avg	30-d Avg
Date	Butte Break?	CSU Break?	Precip?	Min Influent		Avg Influent		Min % of Max	Avg % of Max	Flow Outlier	Peak Factor	of Avg		TSS Conc.,	BOD Conc	BOD/TSS Ratio	NH3-N Conc.,	Avg Inf TSS Load,	Avg Inf BOD Load,	Avg Inf NH3 Load,	Outlier	of TSS		of NH3-N					of non-SN BOD Load,	
	DIEGK:	DIEGK:		Flow, mg	d Flow, mgo	f Flow, mgd	Avg	IVIGA	IVIAA	Туре	(DPF)	Flow, mgd	mgd	mg/L	mg/L	Natio	mg/L	ppd	ppd	ppd	Туре	Load, ppd	Load, ppd	Load, ppd	ppd	ppd	ppd	ppd	ppd	Load, ppd
8/10/2012	TRUE	TRUE	FALSE	3.41	7.55	5.85	58%	45%	77%		1.29	5.8	5.9	222.00	186.00	0.84		10,831	9,075			11,774	7,988	963	10,831	9,075		11,766	7,988	963
8/11/2012 8/12/2012	TRUE TRUE	TRUE TRUE	FALSE FALSE	3.35 3.36	7.53 7.80	5.63 5.77	60% 58%	44% 43%	75% 74%		1.34 1.35	5.8 5.8	5.9 5.9									11,774 11,774	7,988 7,988	963 994				11,766 11,766	7,988 7,988	963 994
8/13/2012	TRUE	TRUE	TRUE	3.30	7.68	6.04	55%	43%	79%		1.27	5.8	5.9	221.00				11,133				11,825	8,621	994	11,133			11,817	8,621	994
8/14/2012	TRUE	TRUE	FALSE	3.37	7.74	6.07	56%	44%	78%		1.28	5.8	5.9	219.00	178.00	0.81		11,087	9,011			11,781	8,699	994	11,087	9,011		11,774	8,699	994
8/15/2012 8/16/2012	TRUE TRUE	TRUE TRUE	FALSE FALSE	3.28 3.48	7.63 7.81	6.03 6.14	54% 57%	43% 45%	79% 79%		1.27 1.27	5.8 5.9	5.9 5.9				21.39			1,095		11,781 12,006	8,699 8,699	994 1,018			1,095	11,774 11,998	8,699 8,699	994 1,018
8/17/2012	TRUE	TRUE	FALSE	3.40	8.00	6.12	56%	43%	77%		1.31	5.9	6.0	224.00	171.00	0.76	21.33	11,433	8,728	1,055		11,985	8,704	1,018	11,433	8,728	1,055	11,978	8,704	1,018
8/18/2012	TRUE	TRUE	FALSE	3.40	8.20	5.98	57%	41%	73%		1.37	5.9	6.0									11,985	8,704	1,018				11,978	8,704	1,018
8/19/2012 8/20/2012	TRUE TRUE	TRUE TRUE	FALSE FALSE	3.30 3.32	8.25 8.25	6.19 6.29	53% 53%	40% 40%	75% 76%		1.33 1.31	5.9 5.9	6.0 6.1	187.00				9,810				11,957 11,729	8,704 8,704	1,018 1,018	9,810			11,949 11,721	8,704 8,704	1,018 1,018
8/21/2012	FALSE	TRUE	FALSE	3.42	8.44	6.33	54%	41%	75%		1.33	5.9	6.1	179.00	190.00	1.06		9,450	10,031			11,587	8,893	1,018	9,450	10,031		11,721	8,893	1,018
8/22/2012	FALSE	TRUE	FALSE	3.35	8.67	6.41	52%	39%	74%		1.35	5.9	6.2									11,587	8,893	1,018				11,579	8,893	1,018
8/23/2012 8/24/2012	FALSE	TRUE TRUE	FALSE FALSE	3.42 3.47	8.43	6.44 6.34	53% 55%	41% 42%	76% 77%		1.31	6.0 6.0	6.2	79.00	148.00	1.87	20.12	4,177	7,826	1,064	TSS	11,587	8,893	1,018	4,177	7,826	1,064	11,579	8,893 8,760	1,018
8/25/2012	FALSE FALSE	TRUE	FALSE	3.53	8.21 8.62	6.30	56%	41%	73%		1.29 1.37	6.0	6.3 6.3	79.00	146.00	1.07	20.12	4,177	7,820	1,004	133	11,611 11,611	8,760 8,760	1,027 1,027	4,177	7,020	1,004	11,611 11,611	8,760	1,027 1,027
8/26/2012	FALSE	TRUE	FALSE	3.62	8.71	6.42	56%	42%	74%		1.36	6.0	6.3									11,646	8,760	1,053				11,646	8,760	1,053
8/27/2012	FALSE	TRUE	FALSE	3.51	8.35	6.52	54%	42%	78%		1.28	6.0	6.4	234.00				12,724				11,674	8,745	1,053	12,724			11,674	8,745	1,053
8/28/2012 8/29/2012	FALSE FALSE	FALSE FALSE	FALSE FALSE	3.29 3.29	9.89 9.89	6.46 6.48	51% 51%	33% 33%	65% 66%		1.53 1.53	6.1 6.1	6.4 6.4	192.00	171.00	0.89		10,344	9,213			11,586 11,586	8,803 8,803	1,053 1,053	10,344	9,213		11,586 11,586	8,803 8,803	1,053 1,053
8/30/2012	FALSE	FALSE	FALSE	3.53	8.73	6.52	54%	40%	75%		1.34	6.1	6.4									11,331	8,803	1,053				11,331	8,803	1,053
8/31/2012	FALSE	FALSE	FALSE	3.45	8.81	6.55	53%	39%	74%		1.35	6.1	6.4	247.00	185.00	0.75	18.50	13,493	10,106	1,011		11,535	9,024	1,044	13,493	10,106	1,011	11,535	9,024	1,044
9/1/2012 9/2/2012	FALSE FALSE	FALSE FALSE	FALSE FALSE	3.40 3.39	8.86 8.73	6.24 6.04	54% 56%	38% 39%	70% 69%		1.42 1.45	6.1 6.1	6.4 6.4									11,535 11,477	9,024 9,024	1,044 1,071				11,535 11,477	9,024 9,024	1,044 1,071
9/3/2012	FALSE	FALSE	FALSE	3.46	9.26	6.54	53%	37%	71%		1.43	6.2	6.4									11,477	9,024	1,071				11,477	9,024	1,071
9/4/2012	FALSE	FALSE	FALSE	3.45	8.56	6.42	54%	40%	75%		1.33	6.2	6.4	196.00	176.00	0.90		10,494	9,424			11,259	9,068	1,071	10,494	9,424		11,259	9,068	1,071
9/5/2012	FALSE	FALSE	FALSE	3.47	8.37	6.52	53%	41%	78%		1.28	6.2	6.4	220.00			20.44	42.270		4.440		11,259	9,068	1,071	42.270		4 440	11,259	9,068	1,071
9/6/2012 9/7/2012	FALSE FALSE	FALSE FALSE	FALSE FALSE	3.52 3.35	8.54 9.75	6.51 6.45	54% 52%	41% 34%	76% 66%		1.31 1.51	6.2 6.2	6.4 6.4	228.00 240.00	181.00	0.75	20.44	12,379 12,910	9,737	1,110		11,354 11,311	9,068 9,239	1,079 1,079	12,379 12,910	9,737	1,110	11,354 11,311	9,068 9,239	1,079 1,079
9/8/2012	FALSE	FALSE	FALSE	3.36	9.62	6.30	53%	35%	65%		1.53	6.3	6.4	2.0.00	101.00	0.75		12,510	3,7.5.7			11,311	9,239	1,079	12,510	3,107		11,311	9,239	1,079
9/9/2012	FALSE	FALSE	FALSE	3.40	9.12	6.36	53%	37%	70%		1.43	6.3	6.4									11,341	9,239	1,070				11,341	9,239	1,070
9/10/2012 9/11/2012	FALSE FALSE	FALSE FALSE	FALSE FALSE	3.39 3.36	8.68 8.64	6.49 6.46	52% 52%	39% 39%	75% 75%		1.34 1.34	6.3 6.3	6.4 6.4	191.00 213.00	172.00	0.81		10,338 11,476	9,267			11,300 11,313	9,259 9,260	1,070 1,070	10,338 11,476	9,267		11,300 11,313	9,259 9,260	1,070 1,070
9/11/2012	FALSE	FALSE	FALSE	3.42	8.60	6.47	53%	40%	75%		1.33	6.3	6.4	213.00	172.00	0.61		11,470	9,207			11,313	9,260	1,070	11,470	9,207		11,313	9,260	1,070
9/13/2012	FALSE	FALSE	FALSE	3.38	8.66	6.45	52%	39%	74%		1.34	6.3	6.4				19.48			1,048		11,328	9,260	1,065			1,048	11,328	9,260	1,065
9/14/2012	FALSE	FALSE	FALSE	3.55	8.21	6.40	55%	43%	78%		1.28	6.4	6.4	212.00	172.00	0.81		11,316	9,181			11,347	9,279	1,065	11,316	9,181		11,347	9,279	1,065
9/15/2012 9/16/2012	FALSE FALSE	FALSE FALSE	FALSE FALSE	3.49 3.20	8.63 9.10	6.18 6.30	56% 51%	40% 35%	72% 69%		1.40 1.44	6.4	6.4 6.4									11,347 11,347	9,279 9,279	1,065 1,058				11,347 11,347	9,279 9,279	1,065 1,058
9/17/2012	FALSE	FALSE	FALSE	3.40	8.50	6.44	53%	40%	76%		1.32	6.4	6.4	217.00				11,655				11,366	9,348	1,058	11,655			11,366	9,348	1,058
9/18/2012	FALSE	FALSE	FALSE	3.45	8.38	6.42	54%	41%	77%		1.31	6.4	6.4	259.00	172.00	0.66		13,868	9,209			11,558	9,332	1,058	13,868	9,209		11,558	9,332	1,058
9/19/2012 9/20/2012	FALSE FALSE	FALSE FALSE	FALSE FALSE	3.40 3.10	8.50 8.60	6.38 6.30	53% 49%	40% 36%	75% 73%		1.33 1.37	6.4 6.4	6.4 6.4	230.00			25.81	12,085		1,356		11,558 11,733	9,332 9,332	1,058 1,118	12,085		1,356	11,558 11,733	9,332 9,332	1,058 1,118
9/21/2012	FALSE	FALSE	FALSE	3.14	8.21	6.26	50%	38%	76%		1.31	6.4	6.3	241.00	189.00	0.78	25.01	12,582	9,867	1,550		11,733	9,314	1,118	12,582	9,867	1,330	11,733	9,314	1,118
9/22/2012	FALSE	FALSE	FALSE	3.18	8.47	5.90	54%	38%	70%		1.44	6.4	6.3									11,974	9,314	1,118				11,974	9,314	1,118
9/23/2012	FALSE FALSE	FALSE FALSE	FALSE FALSE	3.05 3.32	8.70	6.09	50% 52%	35% 37%	70%		1.43	6.4	6.3	213.00				11,298				11,974	9,314	1,118	11 200			11,974	9,314	1,118
9/24/2012 9/25/2012	FALSE	FALSE	FALSE	3.32	8.88 8.44	6.36 6.26	52% 51%	38%	72% 74%		1.40 1.35	6.4 6.4	6.3 6.2	213.00	181.00	0.82		11,486	9,450			11,926 11,897	9,500 9,495	1,131 1,131	11,298 11,235	9,363		11,926 11,880	9,500 9,485	1,131 1,131
9/26/2012	FALSE	FALSE	FALSE	3.20	8.49	6.26	51%	38%	74%		1.36	6.4	6.2									11,897	9,495	1,131				11,880	9,485	1,131
9/27/2012	FALSE	FALSE	FALSE	3.14	8.30	6.21	51%	38%	75%		1.34	6.4	6.2	224.00	101.00	0.00	22.00	11,601	0.660	1,139		11,822	9,495	1,133	11,601	0.000	1,139	11,805	9,485	1,133
9/28/2012 9/29/2012	FALSE FALSE	FALSE FALSE	FALSE FALSE	3.20 3.20	8.10 8.20	6.07 5.84	53% 55%	40% 39%	75% 71%		1.33 1.40	6.3 6.3	6.2 6.1	239.00	191.00	0.80		12,099	9,669			11,939 11,939	9,545 9,545	1,133 1,133	12,099	9,669		11,922 11,922	9,536 9,536	1,133 1,133
9/30/2012	FALSE	FALSE	FALSE	3.12	8.34	5.95	52%	37%	71%		1.40	6.3	6.1									11,939	9,545	1,133				11,922	9,536	1,133
10/1/2012	FALSE	FALSE	FALSE	3.05	9.37	6.28	49%	33%	67%		1.49	6.3	6.2	274.00	4.5			14,351				11,996	9,475	1,163	14,351			11,979	9,465	1,163
10/2/2012 10/3/2012	FALSE FALSE	FALSE FALSE	FALSE FALSE	3.11 3.20	8.35 8.31	6.26 6.26	50% 51%	37% 39%	75% 75%		1.33 1.33	6.3 6.3	6.1 6.1	132.00	134.00	1.02		6,892	6,996			11,677 11,677	9,200 9,200	1,163 1,163	6,892	6,996		11,661 11,661	9,190 9,190	1,163 1,163
10/3/2012	FALSE	FALSE	FALSE	3.20	8.46	6.27	52%	39%	75%		1.35	6.3	6.1				21.76			1,138		11,677	9,200	1,158			1,138	11,661	9,190	1,153
10/5/2012	FALSE	FALSE	FALSE	3.31	8.51	6.24	53%	39%	73%		1.36	6.3	6.1	239.00	206.00	0.86		12,438	10,721			11,798	9,344	1,158	12,438	10,721		11,783	9,334	1,158
10/6/2012	FALSE	FALSE	FALSE	3.24	8.72	6.09	53%	37%	70%		1.43	6.3	6.1									11,798	9,344	1,158				11,783	9,334	1,158
10/7/2012 10/8/2012	FALSE FALSE	FALSE FALSE	FALSE FALSE	3.16 3.12	8.77 9.64	6.21	51% 49%	36% 32%	71% 66%		1.41 1.51	6.3	6.2 6.2	203.00				10,801				11,760 11,619	9,344 9,295	1,170 1,170	10,801			11,743 11,602	9,334 9,284	1,170 1,170
10/9/2012	FALSE	FALSE	FALSE	3.56	8.72	6.30	57%	41%	72%		1.38	6.3	6.3	211.00				11,086				11,586	9,295	1,170	11,086			11,570	9,284	1,170
10/10/2012	FALSE	FALSE	FALSE	3.34	8.24	6.28	53%	41%	76%		1.31	6.3	6.3									11,586	9,295	1,170				11,570	9,284	1,170
10/11/2012	FALSE	FALSE	FALSE	3.22	8.10	6.40	50%	40%	79%		1.27	6.3	6.3	231.00	216.00	0.94	21.77	12,330	11,529	1,162		11,710	9,543	1,169	12,330	11,529	1,162	11,695	9,534	1,169

				Min	Max	Δνσ				Flow	Diurnal	30-d Avg	7-d Avg of	Influent	Influent		Influent	Avg Inf	Avg Inf	Avg Inf	Load	30-d Avg	30-d Avg	30-d Avg	non-SN	non-SN	non-SN	30-d Avg	30-d Avg	30-d Avg
Date	Butte Break?	CSU Break?	Precip?	Influent		Avg Influent	Min % of Avg	Min % of Max	Avg % of Max	Outlier	Peak Factor	of Avg		TSS Conc.,	BOD Conc	BOD/TSS Ratio	NH3-N Conc.,		BOD Load,		Outlier	of TSS	of BOD			BOD Load,			of non-SN BOD Load,	
	J. 0	2.00		Flow, mg	d Flow, mg	d Flow, mgd				Type	(DPF)	Flow, mgd	mgd	mg/L	mg/L		mg/L	ppd	ppd	ppd	Туре	Load, ppd	Load, ppd	Load, ppd	ppd	ppd	ppd	ppd	ppd	Load, ppd
10/12/2012	FALSE	FALSE	FALSE	3.09	9.47	6.32	49%	33%	67%		1.50	6.3	6.3									11,726	9,578	1,169				11,709	9,567	1,169
10/13/2012 10/14/2012	FALSE FALSE	FALSE FALSE	FALSE FALSE	3.11 3.87	9.53 9.49	6.01 6.14	52% 63%	33% 41%	63% 65%		1.59 1.55	6.2 6.2	6.2 6.3									11,726 11,726	9,578 9,578	1,169 1,199				11,709 11,709	9,567 9,567	1,169 1,199
10/15/2012	FALSE	FALSE	FALSE	3.11	9.57	6.31	49%	32%	66%		1.52	6.2	6.3	184.00	220.00	1.20		9,683	11,578			11,617	9,877	1,199	9,683	11,578		11,600	9,867	1,199
10/16/2012 10/17/2012	FALSE FALSE	FALSE FALSE	FALSE FALSE	3.15 3.17	9.57 12.04	6.29 6.18	50% 51%	33% 26%	66% 51%	AvgMax	1.52 1.95	6.2 6.2	6.3 6.3	276.00				14,479				11,796 11,796	9,877 9,877	1,199 1,199	14,479			11,780 11,780	9,867 9,867	1,199 1,199
10/18/2012	FALSE	FALSE	FALSE	3.19	8.96	6.15	52%	36%	69%	7178111071	1.46	6.2	6.2				23.69			1,215		11,805	9,877	1,202			1,215	11,788	9,867	1,202
10/19/2012	FALSE	FALSE FALSE	FALSE FALSE	3.27	8.77	6.00	55%	37%	68%		1.46	6.2	6.2	218.00	199.00	0.91		10,909	9,958			11,608	9,971	1,202	10,909	9,958		11,591	9,960	1,202
10/20/2012 10/21/2012	FALSE FALSE	FALSE	FALSE	3.35 3.09	8.63 11.11	5.70 6.41	59% 48%	39% 28%	66% 58%	AvgMax	1.51 1.73	6.2 6.2	6.1 6.1									11,608 11,574	9,971 9,971	1,202 1,164				11,591 11,556	9,960 9,960	1,202 1,164
10/22/2012	FALSE	FALSE	TRUE	3.17	10.15	6.55	48%	31%	65%		1.55	6.2	6.2	232.00	210.00	0.91		12,673	11,472			11,580	10,171	1,164	12,673	11,472		11,563	10,161	1,164
10/23/2012 10/24/2012	FALSE FALSE	FALSE FALSE	FALSE TRUE	3.29 3.17	9.73 9.86	6.56 6.56	50% 48%	34% 32%	67% 67%		1.48 1.50	6.2 6.2	6.2 6.3	214.00				11,708				11,589 11,589	10,171 10,171	1,164 1,164	11,708			11,572 11,572	10,161 10,161	1,164 1,164
10/25/2012	FALSE	FALSE	FALSE	3.09	9.37	6.38	48%	33%	68%		1.47	6.2	6.3				22.79			1,213		11,610	10,171	1,173			1,213	11,592	10,161	1,173
10/26/2012	FALSE	FALSE	FALSE	3.13	8.89	6.28	50%	35%	71%		1.42	6.2	6.3	206.00	185.00	0.90		10,789	9,689			11,560	10,201	1,173	10,789	9,689		11,560	10,201	1,173
10/27/2012 10/28/2012	FALSE FALSE	FALSE FALSE	FALSE FALSE	3.16 3.20	9.56 9.60	6.15 6.17	51% 52%	33% 33%	64% 64%		1.55 1.56	6.2 6.2	6.3 6.4									11,560 11,557	10,201 10,201	1,173 1,182				11,560 11,557	10,201 10,201	1,173 1,182
10/29/2012	FALSE	FALSE	FALSE	3.20	9.50	6.20	52%	34%	65%		1.53	6.2	6.4									11,512	10,277	1,182				11,512	10,277	1,182
10/30/2012 10/31/2012	FALSE FALSE	FALSE FALSE	FALSE TRUE	3.20 3.20	9.40 9.30	6.14 6.49	52% 49%	34% 34%	65% 70%		1.53 1.43	6.2 6.3	6.3 6.3	288.00	202.00	0.70		14,748	10,344			11,761 11,761	10,286 10,286	1,182 1,182	14,748	10,344		11,761 11,761	10,286 10,286	1,182 1,182
11/1/2012	FALSE	FALSE	FALSE	3.20	9.30	6.50	49%	34%	70%		1.43	6.3	6.3				23.32			1,264		11,545	10,286	1,198			1,264	11,545	10,286	1,198
11/2/2012	FALSE	FALSE	TRUE	3.22	9.37	6.42	50%	34%	69%		1.46	6.3	6.3	236.00				12,636				12,023	10,756	1,198	12,636			12,023	10,756	1,198
11/3/2012 11/4/2012	FALSE FALSE	FALSE FALSE	FALSE FALSE	3.10 3.18	9.67 9.50	6.35 6.15	49% 52%	32% 33%	66% 65%		1.52 1.54	6.3 6.3	6.3 6.3									12,023 12,023	10,756 10,756	1,198 1,213				12,023 12,023	10,756 10,756	1,198 1,213
11/5/2012	FALSE	FALSE	FALSE	3.13	9.43	6.32	50%	33%	67%		1.49	6.3	6.3	197.00				10,384				11,852	10,762	1,213	10,384			11,852	10,762	1,213
11/6/2012	FALSE FALSE	FALSE FALSE	FALSE FALSE	3.21 3.16	8.63	6.12	52%	37% 36%	71% 71%		1.41 1.42	6.3 6.3	6.3 6.3	313.00	212.00	0.68		15,976	10,821			12,169	10,770	1,213	15,976	10,821		12,169	10,770	1,213
11/7/2012 11/8/2012	FALSE	FALSE	TRUE	3.14	8.80 9.57	6.21 6.21	51% 51%	33%	65%		1.54	6.3	6.3	254.00	213.00	0.84		13,155	11,032			12,169 12,350	10,770 10,803	1,213 1,213	13,155	11,032		12,169 12,350	10,770 10,803	1,213 1,213
11/9/2012	FALSE	FALSE	FALSE	3.21	9.04	6.42	50%	36%	71%		1.41	6.3	6.3	243.00			24.19	13,011		1,295		12,498	10,803	1,230	13,011		1,295	12,498	10,803	1,230
11/10/2012 11/11/2012	FALSE FALSE	FALSE FALSE	FALSE FALSE	3.14 3.10	9.20 8.90	5.97 5.88	53% 53%	34% 35%	65% 66%		1.54 1.51	6.3 6.2	6.2 6.2									12,498 12,513	10,803 10,699	1,230 1,247				12,498 12,513	10,803 10,699	1,230 1,247
11/12/2012	FALSE	FALSE	FALSE	3.10	8.90	6.31	49%	35%	71%		1.41	6.2	6.2									12,513	10,699	1,247				12,513	10,699	1,247
11/13/2012	FALSE	FALSE	FALSE	3.12	9.15	6.25	50%	34%	68%		1.46	6.2	6.2	222.00	199.00	0.90		11,572	10,373			12,440	10,658	1,247	11,572	10,373		12,440	10,658	1,247
11/14/2012 11/15/2012	FALSE FALSE	FALSE FALSE	FALSE FALSE	3.10 3.04	9.27 9.05	6.21 6.16	50% 49%	33% 34%	67% 68%		1.49 1.47	6.3 6.2	6.2 6.2	227.00			22.52	11,662		1,157		12,440 12,592	10,658 10,527	1,247 1,229	11,662		1,157	12,440 12,592	10,658 10,527	1,247 1,229
11/16/2012	FALSE	TRUE	TRUE	3.12	9.06	6.21	50%	34%	69%		1.46	6.2	6.2					,		, -		12,435	10,527	1,229	,		, -	12,435	10,527	1,229
11/17/2012 11/18/2012	FALSE FALSE	TRUE TRUE	TRUE FALSE	3.54 3.41	11.66 9.99	7.51 6.56	47% 52%	30% 34%	64% 66%		1.55 1.52	6.3 6.3	6.3 6.4									12,435 12,435	10,527 10,527	1,229 1,232				12,435 12,435	10,527 10,527	1,229 1,232
11/19/2012	FALSE	TRUE	FALSE	3.32	10.60	6.44	52%	31%	61%		1.65	6.3	6.5	180.00				9,668				12,332	10,622	1,232	9,668			12,433	10,622	1,232
11/20/2012	FALSE	TRUE	TRUE	3.45	8.66	6.64	52%	40%	77%		1.30	6.3	6.5	177.00	400.00		22.80	9,802	10.000	1,263		12,137	10,622	1,238	9,802	40.000	1,263	12,137	10,622	1,238
11/21/2012 11/22/2012	TRUE TRUE	TRUE TRUE	FALSE FALSE	3.41 3.53	9.21 9.47	6.53 6.00	52% 59%	37% 37%	71% 63%		1.41 1.58	6.4 6.3	6.5 6.5	243.00	189.00	0.78		13,234	10,293			12,216 12,180	10,575 10,425	1,238 1,238	13,234	10,293		12,216 12,180	10,575 10,425	1,238 1,238
11/23/2012	TRUE	TRUE	FALSE	3.54	8.67	6.27	56%	41%	72%		1.38	6.3	6.5									12,220	10,425	1,238				12,220	10,425	1,238
11/24/2012 11/25/2012	TRUE TRUE	TRUE TRUE	TRUE FALSE	3.45 3.50	9.37 9.06	6.35 6.67	54% 52%	37% 39%	68% 74%		1.48 1.36	6.3 6.3	6.5 6.4									12,220 12,220	10,425 10,425	1,238 1,245				12,220 12,220	10,425 10,425	1,238 1,245
11/25/2012	TRUE	TRUE	FALSE	3.47	9.54	6.67	52%	36%	70%		1.43	6.3	6.4	208.00				11,571				12,220	10,423	1,245	11,571			12,220	10,423	1,245
11/27/2012	FALSE	FALSE	FALSE	3.24	8.72	6.33	51%	37%	73%		1.38	6.3	6.4	210.00			22.71	11,086		1,199		12,193	10,572	1,236	11,086		1,199	12,193	10,572	1,236
11/28/2012 11/29/2012	FALSE FALSE	FALSE FALSE	TRUE TRUE	3.44 3.47	9.73 13.15	7.09 8.32	49% 42%	35% 26%	73% 63%	MinAvg	1.37 1.58	6.4 6.4	6.5 6.5	288.00 314.00	225.00	0.72		17,030 21,788	15,612		TSS	12,538 12,538	10,572 11,412	1,236 1,236	17,030 21,430	15,511		12,538 12,538	10,572 11,396	1,236 1,236
11/30/2012	FALSE	FALSE	TRUE	5.70	13.80	10.94	52%	41%	79%		1.26	6.5	7.2	265.00				24,178	-,		TSS	12,368	11,626	1,236	24,178	-,		12,368	11,606	1,236
12/1/2012	FALSE	FALSE	TRUE	5.60	12.30	10.08	56%	46%	82%		1.22	6.7	7.7									12,368	11,626	1,236				12,368	11,606	1,236
12/2/2012 12/3/2012	FALSE FALSE	FALSE FALSE	TRUE TRUE	7.55 5.60	15.84 12.68	11.70 9.39	65% 60%	48% 44%	74% 74%		1.35 1.35	6.8 6.9	8.5 8.9	154.00				12,060				12,368 12,324	11,626 11,626	1,228 1,228	12,060			12,368 12,324	11,606 11,606	1,228 1,228
12/4/2012	FALSE	FALSE	TRUE	4.93	12.33	9.80	50%	40%	79%		1.26	7.0	9.3	202.00	148.00	0.73		16,510	12,096			12,623	11,704	1,228	16,510	12,096		12,623	11,688	1,228
12/5/2012 12/6/2012	FALSE FALSE	FALSE FALSE	TRUE TRUE	5.55 5.03	13.08 11.44	10.19 8.95	54% 56%	42% 44%	78% 78%		1.28 1.28	7.2 7.3	9.9 10.2	166.00			10.67	12,391		796		12,623 12,766	11,704 11,704	1,228 1,142	12,391		796	12,623 12,766	11,688 11,688	1,228 1,142
12/7/2012	FALSE	FALSE	FALSE	4.48	10.68	8.22	55%	42%	77%		1.30	7.3	9.9		141.00	0.82	10.07	11,723	9,666	, 55		12,462	11,512	1,142	11,723	9,666	, , , ,	12,462	11,495	1,142
12/8/2012	FALSE	FALSE	FALSE	3.71	10.73	7.55	49%	35%	70%		1.42	7.4	9.5									12,462	11,512	1,142				12,462	11,495	1,142
12/9/2012 12/10/2012	FALSE FALSE	FALSE FALSE	FALSE FALSE	3.50 3.60	10.70 9.60	7.25 7.23	48% 50%	33% 38%	68% 75%		1.48 1.33	7.4 7.4	9.1 8.6	173.00				10,432				12,409 12,211	11,608 11,608	1,142 1,104	10,432			12,409 12,211	11,588 11,588	1,142 1,104
12/11/2012	FALSE	FALSE	FALSE	3.70	9.50	7.12	52%	39%	75%		1.33	7.5	8.3	237.00	178.00	0.75		14,073	10,570			12,344	11,435	1,104		10,570		12,344	11,418	1,104
12/12/2012	FALSE FALSE	FALSE FALSE	FALSE FALSE	3.60 3.50	9.60	6.97 6.89	52% 51%	38%	73% 75%		1.38	7.5 7.5	7.9 7.5				22 21			1 282		12,344 12,344	11,435 11 <i>4</i> 35	1,104 1 139			1 292	12,344 12,344	11,418 11 <i>4</i> 18	1,104 1,139
12/13/2012	FALSE	FALSE	FALSE	5.50	9.20	6.89	51%	38%	75%		1.34	7.5	7.5				22.31			1,282		12,344	11,435	1,139			1,282	12,344	11,418	1,139

										Diu	nal				Influent		Influent											30-d Avg	30-d Avg	30-d Avg
Date	Butte	CSU Break?	Precip?	Min Influent	Max Influent	Avg Influent		Min % of	Avg % of C	Flow Outlier	ak 30-0 of		-d Avg of Avg Flow,	Influent TSS Conc.,	BOD	BOD/TSS	NH3-N	Avg Inf TSS Load,	Avg Inf BOD Load,	Avg Inf NH3 Load,	Load Outlier	30-d Avg of TSS		30-d Avg of NH3-N				of non-SN	of non-SN	of non-SN
	Break?	breakr		Flow, mgd	d Flow, mgd	Flow, mgd	Avg	Max	Max	Type Fa	FION	, mgd	mgd	mg/L	Conc., mg/L	Ratio	Conc., mg/L	ppd	ppd	ppd	Type	Load, ppd	Load, ppd	Load, ppd	ppd	ppd	ppd	ppd	BOD Load, ppd	NH3-N Load, ppd
12/14/2012	FALSE FALSE	FALSE	FALSE	3.47	9.02	6.76	51%	38%	75%	1		.6	7.2	232.00	180.00	0.78		13,080	10,148			12,451	11,398	1,139	13,080	10,148		12,451	11,381	1,139
12/15/2012 12/16/2012	TRUE	FALSE FALSE	TRUE TRUE	3.29 3.40	10.16 10.33	6.65 7.00	49% 49%	32% 33%	65% 68%			.6 .6	7.1 7.0									12,451 12,512	11,398 11,398	1,139 1,135				12,451 12,512	11,381 11,381	1,139 1,135
12/17/2012	TRUE	FALSE	TRUE	3.55	9.41	7.20	49%	38%	77%			.6	7.0	117.00	472.00	0.76		7,026	40.456			12,120	11,398	1,135	7,026	40.456		12,120	11,381	1,135
12/18/2012 12/19/2012	TRUE TRUE	FALSE FALSE	FALSE FALSE	3.49 3.42	10.16 9.59	7.08 7.00	49% 49%	34% 36%	70% 73%	1		.6 .6	7.0 6.9	227.00	172.00	0.76	19.45	13,404	10,156	1,135		12,206 12,206	11,220 11,220	1,135 1,135	13,404	10,156	1,135	12,206 12,206	11,206 11,206	1,135 1,135
12/20/2012	TRUE	FALSE	TRUE	3.54	9.30	7.14	50%	38%	77%			.7	7.0	240.00			22.11	14,291		1,317		12,514	11,220	1,165	14,291		1,317	12,514	11,206	1,165
12/21/2012 12/22/2012	TRUE TRUE	TRUE TRUE	TRUE TRUE	6.27 6.17	16.18 14.33	12.48 10.41	50% 59%	39% 43%	77% 73%			.9 .0	7.7 8.1	154.00	117.00	0.76		16,029	12,178			12,929 12,907	11,340 11,490	1,146 1,146	16,029	12,178		12,929 12,907	11,327 11,475	1,146 1,146
12/23/2012	TRUE	TRUE	TRUE	6.17	16.18	11.31	55%	38%	70%			.2	8.7									12,907	11,490	1,146				12,907	11,475	1,146
12/24/2012 12/25/2012	TRUE TRUE	TRUE TRUE	FALSE TRUE	5.67 5.17	12.58 11.16	9.26 8.72	61% 59%	45% 46%	74% 78%			.3	9.0 9.2									12,907 12,907	11,490 11,490	1,146 1,146				12,907 12,907	11,475 11,475	1,146 1,146
12/25/2012	TRUE	TRUE	TRUE	5.68	12.89	9.55	59%	44%	74%			.3 .4	9.5									12,907	11,490	1,146				12,907	11,475	1,146
12/27/2012	TRUE	TRUE	TRUE	5.48	10.99	8.64	63%	50%	79%	1		.5	9.7	84.00			9.73	6,053		701		12,513	11,490	1,072	6,053		701	12,513	11,475	1,072
12/28/2012 12/29/2012	TRUE TRUE	TRUE TRUE	TRUE FALSE	4.49 3.81	11.19 11.16	8.11 7.61	55% 50%	40% 34%	72% 68%			.6 .6	9.8 9.2	165.00	145.00	0.88		11,160	9,807			12,519 12,172	11,279 11,279	1,046 1,046	11,160	9,807		12,519 12,172	11,267 11,267	1,046 1,046
12/30/2012	TRUE	TRUE	FALSE	3.85	9.86	7.08	54%	39%	72%	1		.5	8.8									12,172	10,660	1,046				12,172	10,660	1,046
12/31/2012	TRUE	TRUE TRUE	FALSE	3.59	10.42	7.14	50%	34%	69%			.4	8.3 7.9	142.00				8,456				11,906	10,660	1,046 1,046	8,456			11,906	10,660	1,046
1/1/2013 1/2/2013	TRUE TRUE	TRUE	FALSE FALSE	3.70 3.60	8.67 8.69	6.40 6.72	58% 54%	43% 41%	74% 77%			.3 .1	7.9									11,906 11,906	10,660 10,660	1,046				11,906 11,906	10,660 10,660	1,046 1,046
1/3/2013	TRUE	TRUE	FALSE	3.67	8.84	6.59	56%	42%	75%	1		.0	7.3	188.00			15.99	10,333		879		11,783	10,660	1,018	10,333		879	11,783	10,660	1,018
1/4/2013 1/5/2013	TRUE TRUE	TRUE TRUE	FALSE TRUE	3.51 3.53	8.73 9.09	6.46 6.32	54% 56%	40% 39%	74% 70%	1		.9 .8	7.0 6.8	226.00	187.00	0.83		12,176	10,075			11,473 11,473	10,371 10,371	1,018 1,018	12,176	10,075		11,473 11,473	10,371 10,371	1,018 1,018
1/6/2013	TRUE	TRUE	TRUE	3.43	8.96	6.45	53%	38%	72%			.7	6.6									11,403	10,371	1,063				11,403	10,371	1,063
1/7/2013	TRUE	TRUE	FALSE	3.45	8.45	6.45	53%	41%	76%	1		.7	6.6	208.00				11,189				11,362	10,489	1,063	11,189			11,362	10,489	1,063
1/8/2013 1/9/2013	TRUE TRUE	TRUE TRUE	FALSE TRUE	3.43 3.40	8.36 8.40	6.32 6.32	54% 54%	41% 40%	76% 75%	1		.6 .6	6.5 6.5	173.00 255.00	216.00	0.85		9,119 13,441	11,385			11,201 11,351	10,489 10,617	1,063 1,063	9,119 13,441	11,385		11,201 11,351	10,489 10,617	1,063 1,063
1/10/2013	TRUE	TRUE	TRUE	3.24	8.70	6.25	52%	37%	72%			.6	6.4	228.00			20.56	11,885		1,072		11,448	10,617	1,064	11,885	,	1,072	11,448	10,617	1,064
1/11/2013 1/12/2013	TRUE TRUE	TRUE TRUE	FALSE FALSE	3.40 3.40	8.60 8.40	6.11 6.01	56% 57%	40% 40%	71% 72%	1		.5 .5	6.3 6.3	269.00	187.00	0.70		13,708	9,529			11,423 11,423	10,468 10,468	1,064 1,064	13,708	9,529		11,423 11,423	10,468 10,468	1,064 1,064
1/13/2013	TRUE	TRUE	FALSE	3.23	8.66	6.08	53%	37%	70%			.5 .5	6.2									11,423	10,468	1,004				11,423	10,468	1,004
1/14/2013	TRUE	TRUE	FALSE	3.24	7.94	6.12	53%	41%	77%			.5	6.2	184.00				9,392				11,177	10,522	1,021	9,392			11,177	10,522	1,021
1/15/2013 1/16/2013	TRUE TRUE	TRUE TRUE	FALSE FALSE	3.27 3.43	8.72 8.24	6.10 6.10	54% 56%	38% 42%	70% 74%	1		.4 .4	6.2 6.1	240.00				12,210				11,242 11,242	10,522 10,522	1,021 1,021	12,210			11,242 11,242	10,522 10,522	1,021 1,021
1/17/2013	TRUE	TRUE	FALSE	3.33	8.04	6.14	54%	41%	76%	1		.4	6.1	231.00			24.10	11,829		1,234		11,542	10,522	1,056	11,829		1,234	11,542	10,522	1,056
1/18/2013 1/19/2013	TRUE TRUE	TRUE TRUE	FALSE FALSE	3.33 3.23	7.92 8.60	6.05 5.99	55% 54%	42% 38%	76% 70%	1		.3 .3	6.1 6.1	313.00	189.00	0.60		15,793	9,536			11,691 11,691	10,418 10,418	1,056 1,040	15,793	9,536		11,691 11,691	10,418 10,418	1,056 1,040
1/19/2013	TRUE	TRUE	FALSE	3.23	8.57	5.80	55%	37%	68%			.3 .3	6.0									11,518	10,418	971				11,518	10,418	971
1/21/2013	TRUE	TRUE	FALSE	3.30	8.70	6.33	52%	38%	73%			.1	6.1									11,196	10,067	971				11,196	10,067	971
1/22/2013 1/23/2013	TRUE TRUE	TRUE TRUE	FALSE TRUE	3.30 3.30	8.20 8.20	6.09 6.33	54% 52%	40% 40%	74% 77%			.9 .8	6.1 6.1	373.00				18,945				11,712 11,712	10,067 10,067	971 971	18,945			11,712 11,712	10,067 10,067	971 971
1/24/2013	FALSE	TRUE	TRUE	3.30	8.60	6.34	52%	38%	74%			.7	6.1									11,712	10,067	971				11,712	10,067	971
1/25/2013	FALSE	TRUE	TRUE	3.34	8.60	6.33	53%	39%	74%	1		.6	6.2	289.00	270.00	0.93	32.40	15,257	14,254	1,710		11,934	10,764	1,119	15,257	14,254	1,710	11,934	10,764	1,119
1/26/2013 1/27/2013	FALSE FALSE	TRUE TRUE	TRUE FALSE	3.38 3.40	9.48 9.43	6.32 6.56	53% 52%	36% 36%	67% 70%	1		.5 .4	6.2 6.3									11,934 12,326	10,764 10,764	1,119 1,224				11,934 12,326	10,764 10,764	1,119 1,224
1/28/2013	FALSE	TRUE	FALSE	3.30	8.89	6.57	50%	37%	74%			.4	6.4	222.00	40= 00	0.07		12,164	40.51=			12,393	10,956	1,224	12,164	40.00		12,393	10,956	1,224
1/29/2013 1/30/2013	FALSE FALSE	FALSE FALSE	FALSE FALSE	3.37 3.35	8.71 8.95	6.48 6.39	52% 52%	39% 37%	74% 71%	1		.3 .3	6.4 6.4	226.00 268.00	197.00	0.87		12,214 14,282	10,647			12,382 12,494	10,904 10,904	1,224 1,224	11,618 14,282	10,408		12,344 12,458	10,865 10,865	1,224 1,224
1/31/2013	FALSE	FALSE	FALSE	3.35	8.84	6.40	52%	38%	72%	1		.3	6.4				33.08			1,766		12,746	10,904	1,332			1,766	12,709	10,865	1,332
2/1/2013 2/2/2013	FALSE	FALSE	FALSE FALSE	3.28	8.88	6.33	52%	37%	71%			.3	6.4 6.4	351.00	249.00	0.71		18,530	13,145			13,086	11,224 11,224	1,332	18,530	13,145		13,051	11,190	1,332
2/2/2013 2/3/2013	FALSE FALSE	FALSE FALSE	FALSE	3.35 3.22	9.51 10.13	6.28 6.19	53% 52%	35% 32%	66% 61%	1		.3 .3	6.4									13,086 13,258	11,224	1,332 1,445				13,051 13,221	11,190 11,190	1,332 1,445
2/4/2013	FALSE	FALSE	FALSE	3.25	9.27	6.39	51%	35%	69%	1	15 (.3	6.4	292.00	225			15,561				13,470	11,416	1,445	15,561	40 :		13,433	11,376	1,445
2/5/2013 2/6/2013	FALSE FALSE	FALSE FALSE	FALSE FALSE	3.25 3.19	9.45 9.64	6.43 6.43	51% 50%	34% 33%	68% 67%			.3 .3	6.4 6.4	304.00	226.00	0.74		16,302	12,120			13,636 13,636	11,517 11,517	1,445 1,445	16,302	12,120		13,601 13,601	11,482 11,482	1,445 1,445
2/7/2013	FALSE	FALSE	TRUE	3.34	9.36	6.46	52%	36%	69%			.3	6.4				30.67			1,652		13,789	11,517	1,443			1,652	13,752	11,482	1,487
2/8/2013	FALSE	FALSE	FALSE	3.42	8.34	6.34	54%	41%	76%			.3	6.4	396.00	236.00	0.60		20,939	12,479		TSS	14,101	11,637	1,487	20,939	12,479		14,061	11,607	1,487
2/9/2013 2/10/2013	FALSE FALSE	FALSE FALSE	FALSE FALSE	3.38 3.17	6.17 9.33	6.20 6.32	55% 50%	55% 34%	100% inM 68%	laxAvgM 1 1		.3 .3	6.4 6.4									14,148 14,322	11,673 11,673	1,487 1,591				14,105 14,276	11,639 11,639	1,487 1,591
2/11/2013	FALSE	FALSE	FALSE	3.30	8.78	6.28	53%	38%	72%	1	10 6	.3	6.4	244.00				12,780				14,251	12,030	1,591	12,780			14,205	11,990	1,591
2/12/2013 2/13/2013	FALSE FALSE	FALSE FALSE	FALSE FALSE	3.27 3.25	9.34 8.51	6.27 6.30	52% 52%	35% 38%	67% 74%	1		.3 .3	6.4 6.3	306.00	230.00	0.75		16,001	12,027			14,376 14,376	12,030 12,030	1,591 1,591	16,001	12,027		14,333 14,333	11,996 11,996	1,591 1,591
2/13/2013	FALSE	FALSE	FALSE	3.26	8.76	6.22	52%	37%	71%			.3	6.3				24.40			1,266		14,759	12,030	1,526			1,266	14,713	11,996	1,526

				Min	May	Δνισ				Elow	Diurnal	20 d Ava	7 d Avg of	Influent	Influent		Influent	Ava Inf	Ava Inf	Avalnf	Load	20 d Avg	20 d Avg	20 d Ava	non SN	non-SN	non SN	30-d Avg	30-d Avg	30-d Avg
Date	Butte Break?	CSU Prook?	Precip?	Min Influent	Max Influent	Avg Influent		Min % of		Flow Outlier	Peak		7-d Avg of Avg Flow,	TSS Conc.,	BOD	BOD/TSS		Avg Inf TSS Load,	Avg Inf BOD Load,	Avg Inf NH3 Load,	Outlier	of TSS				BOD Load,			of non-SN	
	breakr	Break?		Flow, mg	d Flow, mgo	l Flow, mgd	Avg	Max	Max	Туре	Factor (DPF)	Flow, mgd	mgd	mg/L	Conc., mg/L	Ratio	Conc., mg/L	ppd	ppd	ppd	Туре	Load, ppd	Load, ppd	Load, ppd	ppd	ppd	ppd	ppd	BOD Load, ppd	NH3-N Load, ppd
2/15/2013	FALSE	FALSE	FALSE	3.26	9.35	6.26	52%	35%	67%		1.49	6.3	6.3	228.00				11,904				14,736	12,030	1,526	11,904			14,690	11,996	1,526
2/16/2013 2/17/2013	FALSE FALSE	FALSE FALSE	FALSE FALSE	3.18 3.18	9.21 9.25	6.03 6.00	53% 53%	35% 34%	65% 65%		1.53 1.54	6.3 6.3	6.2 6.2									14,736 14,978	12,030 12,030	1,526 1,599				14,690 14,928	11,996 11,996	1,526 1,599
2/18/2013	FALSE	FALSE	FALSE	3.27	6.52	6.56	50%	50%	101%	AvgMax	0.99	6.3	6.2									14,904	12,445	1,599				14,850	12,405	1,599
2/19/2013	FALSE	FALSE	TRUE	3.23	6.36	6.39	51%	51%	100%	AvgMax	1.00	6.3	6.2	256.00	235.00	0.92		13,643	12,524			14,799	12,456	1,599	13,643	12,524		14,749	12,422	1,599
2/20/2013 2/21/2013	FALSE FALSE	FALSE FALSE	TRUE FALSE	3.18 3.25	6.17 8.76	6.22 6.26	51% 52%	52% 37%	101% 71%	AvgMax	0.99 1.40	6.3 6.3	6.2 6.2	240.00			26.02	12,530		1,358		14,799 14,624	12,456 12,456	1,599 1,551	12,530		1,358	14,749 14,578	12,422 12,422	1,599 1,551
2/22/2013	FALSE	FALSE	FALSE	3.30	8.60	6.20	53%	38%	71%		1.39	6.3	6.2	244.00	224.00	0.92	20.02	12,530	11,583	1,336		14,024	12,430	1,551	12,530	11,583	1,336	14,091	12,422	1,551
2/23/2013	FALSE	FALSE	FALSE	3.20	9.10	6.07	53%	35%	67%		1.50	6.3	6.1									14,137	12,347	1,551				14,091	12,317	1,551
2/24/2013	FALSE	FALSE	FALSE	3.25	8.96	6.23	52%	36%	70%		1.44	6.3	6.2	256.00				13,323				14,137	12,347	1,551	12 222			14,091	12,317	1,551
2/25/2013 2/26/2013	FALSE FALSE	FALSE FALSE	FALSE FALSE	3.22 3.07	8.86 9.08	6.24 6.24	52% 49%	36% 34%	70% 69%		1.42 1.46	6.3 6.3	6.2 6.2	237.00	234.00	0.99		12,334	12,178			13,989 13,870	12,075 12,088	1,511 1,511	13,323 12,135	12,087		13,943 13,814	12,041 12,047	1,511 1,511
2/27/2013	FALSE	FALSE	FALSE	3.24	9.37	6.22	52%	35%	66%		1.51	6.3	6.2									13,870	12,088	1,511		,_,		13,814	12,047	1,511
2/28/2013	FALSE	FALSE	FALSE	3.24	8.53	6.16	53%	38%	72%		1.38	6.3	6.2	268.00	400.00		21.52	13,768	0.670	1,106		13,985	12,088	1,430	13,768	0.670	1,106	13,928	12,047	1,430
3/1/2013 3/2/2013	FALSE FALSE	FALSE FALSE	FALSE FALSE	3.24 3.22	8.44 8.94	6.14 6.08	53% 53%	38% 36%	73% 68%		1.37 1.47	6.3 6.3	6.2 6.2	148.00	189.00	1.28		7,579	9,678			13,654 13,605	11,967 11,967	1,430 1,430	7,579	9,678		13,640 13,590	11,955 11,955	1,430 1,430
3/3/2013	FALSE	FALSE	TRUE	5.22	8.54	6.13	3370	3070	0870	'gMinMaxA'	0.00	6.2	6.2									13,605	11,967	1,346				13,590	11,955	1,346
3/4/2013	FALSE	FALSE	FALSE	3.30	6.20	6.28	53%	53%	101%	AvgMax	0.99	6.2	6.2	112.00				5,866				12,631	11,798	1,346	5,866			12,616	11,785	1,346
3/5/2013	FALSE	FALSE	TRUE	3.27	8.79	6.32	52%	37%	72%		1.39	6.2	6.2	220.00	194.00	0.88		11,596	10,226			12,557	11,602	1,346	11,596	10,226		12,543	11,590	1,346
3/6/2013 3/7/2013	FALSE FALSE	FALSE FALSE	TRUE FALSE	3.20 3.30	8.80 8.90	6.41 6.36	50% 52%	36% 37%	73% 71%		1.37 1.40	6.3 6.3	6.2 6.2	255.00			24.60	13,526		1,305		12,557 12,412	11,602 11,602	1,346 1,337	13,526		1,305	12,543 12,398	11,590 11,590	1,346 1,337
3/8/2013	FALSE	FALSE	FALSE	3.21	11.31	6.33	51%	28%	56%	AvgMax	1.79	6.2	6.3	276.00	213.00	0.77	2	14,571	11,245	2,000		12,288	11,492	1,337	14,571	11,245	2,000	12,274	11,481	1,337
3/9/2013	FALSE	FALSE	FALSE	3.20	9.53	5.99	53%	34%	63%		1.59	6.2	6.2									12,288	11,492	1,337				12,274	11,481	1,337
3/10/2013	FALSE	FALSE	FALSE FALSE	3.31	8.74	6.11	54%	38%	70%		1.43	6.2	6.2	211.00				10.000				12,288	11,492	1,259	10.000			12,274	11,481	1,259
3/11/2013 3/12/2013	FALSE FALSE	FALSE FALSE	FALSE	3.27 3.21	8.32 8.88	6.25 6.21	52% 52%	39% 36%	75% 70%		1.33 1.43	6.2 6.2	6.2 6.2	211.00 144.00	118.00	0.82		10,998 7,458	6,111			12,202 11,906	11,351 10,696	1,259 1,259	10,998 7,458	6,111		12,189 11,893	11,338 10,685	1,259 1,259
3/13/2013	FALSE	FALSE	FALSE	3.22	8.77	6.15	52%	37%	70%		1.43	6.2	6.2	21.1100	110.00	0.02		7,100	0,111			11,906	10,696	1,259	7,.50	0,111		11,893	10,685	1,259
3/14/2013	FALSE	FALSE	FALSE	3.23	8.85	6.27	52%	36%	71%		1.41	6.2	6.2	279.00			24.13	14,589		1,262		12,019	10,696	1,259	14,589		1,262	12,006	10,685	1,259
3/15/2013 3/16/2013	TRUE TRUE	FALSE FALSE	FALSE FALSE	3.18 3.13	8.42 8.30	6.04 5.63	53% 56%	38% 38%	72% 68%		1.39 1.47	6.2 6.2	6.1 6.1	254.00				12,795				11,818	10,506 10,506	1,259 1,259	12,795			11,806 11,806	10,493 10,493	1,259 1,259
3/17/2013	TRUE	FALSE	FALSE	3.06	8.66	5.47	56%	35%	63%		1.58	6.1	6.0									11,818 11,818	10,506	1,259				11,806	10,493	1,259
3/18/2013	TRUE	FALSE	FALSE	3.12	8.51	5.61	56%	37%	66%		1.52	6.1	6.0	359.00				16,797				12,124	10,506	1,258	16,797			12,112	10,493	1,258
3/19/2013	TRUE	FALSE	TRUE	3.08	8.67	5.74	54%	36%	66%		1.51	6.1	5.9	269.00	223.00	0.83	22.66	12,877	10,675	1,085		12,169	10,527	1,223	12,877	10,675	1,085	12,157	10,516	1,223
3/20/2013 3/21/2013	TRUE TRUE	FALSE FALSE	TRUE FALSE	3.13 3.18	8.44 8.29	5.81 5.67	54% 56%	37% 38%	69% 68%		1.45 1.46	6.1	5.8 5.8	267.00				12,626				12,169 12,194	10,527 10,527	1,223 1,223	12,626			12,157 12,183	10,516 10,516	1,223 1,223
3/22/2013	TRUE	FALSE	FALSE	3.19	8.25	5.68	56%	39%	69%		1.45	6.1	5.7	296.00	218.00	0.74		14,022	10,327			12,134	10,253	1,223	14,022	10,327		12,103	10,310	1,223
3/23/2013	TRUE	FALSE	FALSE	3.07	8.00	5.54	55%	38%	69%		1.44	6.0	5.6									12,215	10,253	1,223				12,204	10,241	1,223
3/24/2013	TRUE	FALSE	FALSE	3.08	8.76	5.85	53%	35%	67%		1.50	6.0	5.7									12,197	10,253	1,189				12,185	10,241	1,189
3/25/2013 3/26/2013	TRUE TRUE	FALSE FALSE	FALSE FALSE	3.19 3.26	8.84 8.69	6.20 6.20	51% 53%	36% 38%	70% 71%		1.43 1.40	6.0 6.0	5.8 5.8	298.00	234.00	0.79		15,409	12,100			12,170 12,361	10,063 10,317	1,189 1,189	14,737	11,921		12,158 12,310	10,050 10,284	1,189 1,189
3/27/2013	FALSE	FALSE	FALSE	3.13	9.10	6.23	50%	34%	68%		1.46	6.0	5.9	230.00	251.00	0.73		13,103	12,100			12,361	10,317	1,189	11,737	11,321		12,310	10,284	1,189
3/28/2013	FALSE	FALSE	FALSE	3.11	9.29	6.21	50%	33%	67%		1.50	6.0	5.9	243.00			25.60	12,585		1,326		12,317	10,317	1,217	12,585		1,326	12,266	10,284	1,217
3/29/2013	FALSE	FALSE	FALSE	3.28	8.77	6.18	53%	37%	70%		1.42	6.0	6.0	251.00	211.00	0.84		12,937	10,875			12,353	10,155	1,217	12,937	10,875		12,313	10,132	1,217
3/30/2013 3/31/2013	FALSE FALSE	FALSE FALSE	FALSE TRUE	3.23 3.28	9.39 9.47	5.99 6.03	54% 54%	34% 35%	64% 64%		1.57 1.57	6.0 6.0	6.1 6.1									12,353 12,264	10,155 10,155	1,217 1,244				12,313 12,222	10,132 10,132	1,217 1,244
4/1/2013	FALSE	FALSE	TRUE	3.38	9.92	6.65	51%	34%	67%		1.49	6.0	6.2	293.00				16,250				12,806	10,223	1,244	16,250			12,764	10,197	1,244
4/2/2013	FALSE	FALSE	FALSE	3.30	9.22	6.51	51%	36%	71%		1.42	6.0	6.3	239.00	206.00	0.86		12,976	11,184			12,816	10,343	1,244	12,976	11,184		12,777	10,321	1,244
4/3/2013 4/4/2013	FALSE FALSE	FALSE FALSE	FALSE TRUE	3.26 3.34	6.43 6.61	6.39 6.65	51% 50%	51% 51%	99%	AvgMax AvgMax	1.01	6.0	6.3				25.02			1,388		12,816 13,251	10,343 10,343	1,244 1,273			1,388	12,777 13,209	10,321	1,244 1 273
4/4/2013	FALSE	FALSE	FALSE	3.34	6.61 9.40	6.44	50% 50%	34%	101% 69%	Avgividx	0.99 1.46	6.0 6.1	6.3 6.3	301.00	215.00	0.71	23.02	16,167	11,548	1,300		13,251 13,536	10,343	1,273	16,167	11,548	1,300	13,494	10,321 10,486	1,273 1,273
4/6/2013	FALSE	FALSE	FALSE	3.20	9.50	6.18	52%	34%	65%		1.54	6.0	6.3					-,	,			13,536	10,508	1,273	-,	,		13,494	10,486	1,273
4/7/2013	FALSE	FALSE	TRUE	3.33	9.46	6.29	53%	35%	66%		1.50	6.0	6.4	0.45								13,537	10,508	1,265				13,492	10,486	1,265
4/8/2013 4/9/2013	FALSE FALSE	FALSE FALSE	TRUE FALSE	3.28 3.30	8.87 8.58	6.41 6.25	51% 53%	37% 38%	72% 73%		1.38 1.37	6.1 6.1	6.4	245.00 285.00	215.00	0.75		13,098 14,846	11,200			13,439 13,527	10,403 10,503	1,265 1,265	13,098 14,846	11,200		13,394 13,485	10,377 10,480	1,265 1,265
4/10/2013	FALSE	FALSE	FALSE	3.34	8.90	6.20	54%	38%	70%		1.43	6.1	6.3	203.00	213.00	0.75		14,040	11,200			13,527	10,503	1,265	14,040	11,200		13,485	10,480	1,265
4/11/2013	FALSE	FALSE	FALSE	3.32	8.97	6.27	53%	37%	70%		1.43	6.1	6.3	237.00			24.85	12,393		1,299		13,614	10,503	1,272	12,393		1,299	13,572	10,480	1,272
4/12/2013	FALSE	FALSE	FALSE	3.12	8.92	6.13	51%	35%	69%		1.46	6.1	6.3	259.00	194.00	0.75		13,241	9,918			13,976	10,978	1,272	13,241	9,918		13,934	10,956	1,272
4/13/2013 4/14/2013	FALSE FALSE	FALSE FALSE	FALSE FALSE	3.22 3.23	9.02 9.34	6.01 6.14	54% 53%	36% 35%	67% 66%		1.50 1.52	6.1 6.1	6.2 6.2									13,976 13,935	10,978 10,978	1,272 1,274				13,934 13,890	10,956 10,956	1,272 1,274
4/15/2013	FALSE	FALSE	FALSE	3.30	8.94	6.24	53%	37%	70%		1.43	6.1	6.2	365.00				18,995				14,348	10,978	1,274	18,995			14,303	10,956	1,274
4/16/2013	FALSE	FALSE	FALSE	3.20	8.91	6.22	51%	36%	70%		1.43	6.1	6.2	221.00	203.00	0.92		11,464	10,531			14,168	10,929	1,274	11,464	10,531		14,126	10,909	1,274
4/17/2013	FALSE	FALSE	FALSE	3.30	8.70	6.26	53%	38%	72%		1.39	6.1	6.2	225.22			21.60	44.545		1,128		14,168	10,929	1,245	44.515		1,128	14,126	10,909	1,245
4/18/2013	FALSE	FALSE	FALSE	3.20	8.71	6.19	52%	37%	71%		1.41	6.1	6.2	225.00				11,616				13,844	10,929	1,245	11,616			13,802	10,909	1,245

											Diurnal				Influent		Influent											30-d Ava	30-d Avg	30-d Ava
Date	Butte	CSU	Precip?	Min Influent	Max : Influent	Avg Influent	Min % of	Min % of		Flow Outlier	Peak	30-d Avg of Avg		Influent TSS Conc.,	BOD	BOD/TSS	NH3-N	Avg Inf TSS Load.	Avg Inf BOD Load,	Avg Inf NH3 Load.	Load Outlier	30-d Avg of TSS		30-d Avg of NH3-N				of non-SN	of non-SN	of non-SN
	Break?	Break?				d Flow, mgd	Avg	Max	Max	Type	Factor (DPF)	Flow, mgd	mgd	mg/L	Conc., mg/L	Ratio	Conc., mg/L	ppd	ppd	ppd	Туре			Load, ppd		ppd	ppd	TSS Load, ppd	BOD Load, ppd	NH3-N Load, ppd
4/19/2013	FALSE	FALSE	FALSE	3.21	8.72	6.10	53%	37%	70%		1.43	6.1	6.2	260.00				13,227				13,866	10,960	1,285	13,227			13,824	10,938	1,285
4/20/2013 4/21/2013	FALSE FALSE	FALSE FALSE	FALSE FALSE	3.19 3.20	8.32 8.81	5.82 6.00	55% 53%	38% 36%	70% 68%		1.43 1.47	6.1 6.2	6.1 6.1									13,866 13,948	10,960 10,960	1,285 1,285				13,824 13,904	10,938 10,938	1,285 1,285
4/22/2013	FALSE	FALSE	FALSE	3.34	8.78	6.18	54%	38%	70%		1.42	6.2	6.1	174.00				8,968				13,612	11,051	1,285	8,968			13,567	11,025	1,285
4/23/2013 4/24/2013	FALSE FALSE	FALSE FALSE	FALSE FALSE	3.25 3.28	8.74 8.75	6.21 6.18	52% 53%	37% 37%	71% 71%		1.41 1.42	6.2 6.2	6.1 6.1	293.00	242.00	0.83		15,175	12,534			13,709 13,709	11,236 11,236	1,285 1,285	15,175	12,534		13,667 13,667	11,214 11,214	1,285 1,285
4/25/2013	FALSE	FALSE	FALSE	3.23	9.11	6.24	52%	35%	68%		1.46	6.2	6.1	187.00			24.46	9,732		1,273		13,475	11,236	1,283	9,732		1,273	13,436	11,214	1,283
4/26/2013 4/27/2013	FALSE FALSE	FALSE FALSE	FALSE FALSE	3.26 3.30	8.89 8.95	6.15 5.94	53% 56%	37% 37%	69% 66%		1.45 1.51	6.2 6.2	6.1 6.1	209.00	190.00	0.91		10,720	9,745			13,199 13,199	10,942 10,942	1,283 1,283	10,720	9,745		13,199 13,199	10,942 10,942	1,283 1,283
4/28/2013	FALSE	FALSE	FALSE	3.25	9.11	6.00	54%	36%	66%		1.52	6.2	6.1									13,133	10,942	1,272				13,238	10,942	1,272
4/29/2013	FALSE	FALSE	FALSE	3.15	9.25	6.23	51%	34%	67%		1.48	6.2	6.1	250.00	244.00	0.04		12,990	10.010			13,241	10,951	1,272	12,990	10.010		13,241	10,951	1,272
4/30/2013 5/1/2013	FALSE FALSE	FALSE FALSE	FALSE FALSE	3.19 3.13	9.70 9.71	6.20 6.20	51% 50%	33% 32%	64% 64%		1.56 1.57	6.2 6.2	6.1 6.1	231.00	211.00	0.91		11,945	10,910			13,165 13,165	10,946 10,946	1,272 1,272	11,945	10,910		13,165 13,165	10,946 10,946	1,272 1,272
5/2/2013	FALSE	FALSE	FALSE	3.21	9.30	6.18	52%	35%	66%		1.50	6.2	6.1	265.00			26.93	13,658		1,388		13,012	10,946	1,295	13,658		1,388	13,012	10,946	1,295
5/3/2013 5/4/2013	FALSE FALSE	FALSE FALSE	FALSE FALSE	3.24 3.31	8.75 8.84	6.18 6.00	52% 55%	37% 37%	71% 68%		1.42 1.47	6.2 6.2	6.1 6.1	272.00	215.00	0.79		14,019	11,081			13,074 13,074	10,933 10,933	1,295 1,295	14,019	11,081		13,074 13,074	10,933 10,933	1,295 1,295
5/5/2013	FALSE	FALSE	FALSE	3.28	9.52	6.20	53%	34%	65%		1.54	6.2	6.1									13,074	10,933	1,272				13,074	10,933	1,272
5/6/2013	FALSE FALSE	FALSE FALSE	TRUE FALSE	3.31	8.84 9.18	6.33	52% 52%	37% 36%	72% 69%		1.40 1.45	6.2 6.2	6.2 6.2	221.00	177.00	0.68		11,667	0.215			12,809	10,846 10,654	1,272 1,272	11,667	0.215		12,809	10,846	1,272 1,272
5/7/2013 5/8/2013	FALSE	FALSE	FALSE	3.31 3.36	9.17	6.31 6.29	53%	37%	69%		1.45	6.2	6.2	262.00	177.00	0.08		13,788	9,315			12,863 12,863	10,654	1,272	13,788	9,315		12,863 12,863	10,654 10,654	1,272
5/9/2013	FALSE	FALSE	FALSE	3.27	8.78	6.23	52%	37%	71%		1.41	6.2	6.2	189.00	105.00		23.14	9,820		1,202		12,681	10,654	1,258	9,820		1,202	12,681	10,654	1,258
5/10/2013 5/11/2013	FALSE FALSE	FALSE FALSE	FALSE FALSE	3.27 3.23	9.55 9.52	6.17 5.98	53% 54%	34% 34%	65% 63%		1.55 1.59	6.2 6.2	6.2 6.2	273.00	195.00	0.71		14,048	10,034			12,637 12,637	10,509 10,509	1,258 1,258	14,048	10,034		12,637 12,637	10,509 10,509	1,258 1,258
5/12/2013	FALSE	FALSE	FALSE	3.31	8.63	5.93	56%	38%	69%		1.46	6.1	6.2									12,651	10,509	1,248				12,651	10,509	1,248
5/13/2013 5/14/2013	FALSE FALSE	FALSE FALSE	FALSE FALSE	3.25 3.36	8.69 8.96	6.22 6.24	52% 54%	37% 38%	72% 70%		1.40 1.44	6.1 6.2	6.2 6.2	251.00 268.00	235.00	0.88		13,021 13,947	12,230			12,638 12,711	10,593 10,797	1,248 1,248	13,021 13,947	12,230		12,638 12,711	10,593 10,797	1,248 1,248
5/15/2013	FALSE	FALSE	FALSE	3.24	9.75	6.23	52%	33%	64%		1.57	6.2	6.2	208.00	233.00	0.88		13,347	12,230			12,711	10,797	1,248	13,547	12,230		12,711	10,797	1,248
5/16/2013	FALSE	FALSE	FALSE	3.35	9.30	6.26	54%	36%	67%		1.49	6.2	6.2	299.00	200.00	0.55	25.94	15,610	40.772	1,354		12,523	10,797	1,269	15,610	40.770	1,354	12,523	10,797	1,269
5/17/2013 5/18/2013	FALSE FALSE	FALSE FALSE	FALSE FALSE	3.34 3.27	8.87 8.72	6.21 5.90	54% 55%	38% 38%	70% 68%		1.43 1.48	6.2 6.1	6.2 6.1	315.00	208.00	0.66		16,314	10,773			12,792 12,792	10,828 10,828	1,269 1,304	16,314	10,773		12,792 12,792	10,828 10,828	1,269 1,304
5/19/2013	FALSE	FALSE	FALSE	3.19	9.00	6.03	53%	35%	67%		1.49	6.1	6.1									12,862	10,828	1,304				12,862	10,828	1,304
5/20/2013 5/21/2013	FALSE FALSE	FALSE FALSE	FALSE FALSE	3.28 3.15	8.80 8.44	6.19 6.02	53% 52%	37% 37%	70% 71%		1.42 1.40	6.1 6.1	6.2 6.1	249.00 238.00				12,855 11,949				12,840 12,790	10,828 10,828	1,304 1,304	12,855 11,949			12,840 12,790	10,828 10,828	1,304 1,304
5/22/2013	FALSE	FALSE	FALSE	3.18	8.95	6.23	51%	36%	70%		1.44	6.2	6.1	250.00				11,545				12,790	10,828	1,304	11,545			12,790	10,828	1,304
5/23/2013	FALSE	FALSE	FALSE	3.21	8.60	6.20	52%	37%	72%		1.39	6.2	6.1	257.00	220.00	0.72	23.95	13,289	11 100	1,238		13,030	10,828	1,291	13,289	11 160	1,238	13,030	10,828	1,291
5/24/2013 5/25/2013	FALSE FALSE	FALSE FALSE	FALSE FALSE	3.30 3.29	8.80 8.64	6.25 6.15	53% 53%	38% 38%	71% 71%		1.41 1.40	6.2 6.2	6.1 6.1	305.00	220.00	0.72		15,898	11,468			13,071 13,071	10,694 10,694	1,291 1,291	15,898	11,468		13,071 13,071	10,694 10,694	1,291 1,291
5/26/2013	FALSE	TRUE	FALSE	3.18	9.24	5.74	55%	34%	62%		1.61	6.1	6.1									13,267	10,694	1,296				13,267	10,694	1,296
5/27/2013 5/28/2013	FALSE FALSE	TRUE TRUE	TRUE FALSE	3.20 3.20	9.00 8.90	6.09 5.97	53% 54%	36% 36%	68% 67%		1.48 1.49	6.1 6.1	6.1 6.1	210.00	195.00	0.93		10,456	9,709			13,426 13,251	10,830 10,690	1,296 1,296	10,456	9,709		13,426 13,251	10,830 10,690	1,296 1,296
5/29/2013	FALSE	TRUE	FALSE	3.20	8.40	6.03	53%	38%	72%		1.39	6.1	6.1	220.00	133.00	0.55		20, 150	3,703			13,251	10,690	1,296	20, 130	3,7.03		13,251	10,690	1,296
5/30/2013 5/31/2013	FALSE TRUE	TRUE TRUE	FALSE FALSE	3.20 3.23	8.30 8.18	5.84 5.80	55% 56%	39% 39%	70% 71%		1.42 1.41	6.1 6.1	6.0 6.0	294.00 275.00	235.00	0.85	24.56	14,319 13,302	11,367	1,196		13,330	10,690 10,747	1,276 1,276	14,319 13,302	11,367	1,196	13,330 13,409	10,690 10,747	1,276 1,276
6/1/2013	TRUE	TRUE	FALSE	3.23	7.90	5.62	59%	42%	71%		1.41	6.1	5.9	273.00	233.00	0.65		13,302	11,30/			13,409 13,409	10,747	1,276	13,302	11,307		13,409	10,747	1,276
6/2/2013	TRUE	TRUE	FALSE	3.25	8.04	5.61	58%	40%	70%		1.43	6.1	5.8	44 - 22				F F 622				13,394	10,747	1,248	F F 50			13,394	10,747	1,248
6/3/2013 6/4/2013	TRUE TRUE	TRUE TRUE	FALSE FALSE	3.23 3.34	9.13 8.10	5.85 5.92	55% 56%	35% 41%	64% 73%		1.56 1.37	6.1 6.1	5.9 5.8	114.00 296.00	225.00	0.76		5,562 14,614	11,109			12,865 12,968	10,699 10,751	1,248 1,248	5,562 14,614	11,109		12,865 12,968	10,699 10,751	1,248 1,248
6/5/2013	TRUE	TRUE	FALSE	3.38	8.13	5.94	57%	42%	73%		1.37	6.1	5.8					,	,			12,968	10,751	1,248	,	,		12,968	10,751	1,248
6/6/2013 6/7/2013	TRUE TRUE	TRUE TRUE	FALSE FALSE	3.32 3.30	7.73 7.70	5.88 5.76	56% 57%	43% 43%	76% 75%		1.31 1.34	6.0 6.0	5.8 5.8	115.00	156.00	1.36	20.39	5,524	7,494	1,000		13,050 12,533	10,751 10,523	1,198 1,198	5,524	7,494	1,000	13,050 12,533	10,751 10,523	1,198 1,198
6/8/2013	TRUE	TRUE	FALSE	3.30	7.70	5.76	60%	45% 45%	75% 75%		1.34	6.0	5.8	113.00	130.00	1.30		3,324	7,434			12,533	10,523	1,198	3,324	1,434		12,533	10,523	1,198
6/9/2013	TRUE	TRUE	FALSE	3.14	8.70	5.62	56%	36%	65%		1.55	6.0	5.8									12,714	10,523	1,197				12,714	10,523	1,197
6/10/2013 6/11/2013	TRUE TRUE	TRUE TRUE	TRUE FALSE	3.24 3.20	8.64 8.30	5.80 5.71	56% 56%	38% 39%	67% 69%		1.49 1.45	6.0 6.0	5.8 5.8									12,619 12,619	10,593 10,593	1,197 1,197				12,619 12,619	10,593 10,593	1,197 1,197
6/12/2013	TRUE	TRUE	FALSE	3.36	5.64	5.65	59%	60%	100% in	MaxAvgM	1.00	6.0	5.7	316.00				14,890				12,770	10,593	1,197	14,890			12,770	10,593	1,197
6/13/2013 6/14/2013	TRUE TRUE	TRUE TRUE	FALSE FALSE	3.20 3.22	8.10 7.70	5.62 5.48	57% 59%	40% 42%	69% 71%		1.44 1.41	5.9 5.9	5.7 5.6	278.00 275.00	191.00	0.69	24.08	13,030 12,568	8,729	1,129		12,771 12,679	10,593 10,093	1,183 1,183	13,030 12,568	8,729	1,129	12,771 12,679	10,593 10,093	1,183 1,183
6/15/2013	TRUE	TRUE	FALSE	3.33	7.70	5.28	63%	44%	69%		1.41	5.9	5.6	273.00	191.00	0.03		12,300	0,723			12,679	10,093	1,183	12,300	0,723		12,679	10,093	1,183
6/16/2013	TRUE	TRUE	FALSE	3.25	8.00	5.37	61%	41%	67%		1.49	5.9	5.6									12,469	10,093	1,141				12,469	10,093	1,141
6/17/2013 6/18/2013	TRUE TRUE	TRUE TRUE	FALSE FALSE	3.30 3.25	7.68 7.61	5.61 5.63	59% 58%	43% 43%	73% 74%		1.37 1.35	5.8 5.8	5.6 5.5									12,174 12,174	9,979 9,979	1,141 1,141				12,174 12,174	9,979 9,979	1,141 1,141
6/19/2013	TRUE	TRUE	FALSE	3.31	7.90	5.65	59%	42%	72%		1.40	5.8	5.5									12,174	9,979	1,141				12,174	9,979	1,141
6/20/2013	TRUE	TRUE	FALSE	3.21	8.00	5.60	57%	40%	70%		1.43	5.8	5.5	375.00			20.73	17,514		968		12,532	9,979	1,106	17,514		968	12,532	9,979	1,106

				Min	Max	Avg				Flow	Diurnal	30-d Avg	7-d Avg of	Influent	Influent		Influent	Avg Inf	Avg Inf	Avg Inf	Load	30-d Avg	30-d Avg	30-d Avg	non-SN	non-SN	non-SN_		30-d Avg	_
Date	Butte Break?	CSU Break?	Precip?	Influent	Influent	Influent	Min % of Avg	Min % of Max	Avg % of Max	Outlier	Peak Factor	of Avg	Avg Flow,	TSS Conc.,	BOD Conc.,	BOD/TSS Ratio	NH3-N Conc.,	TSS Load,	BOD Load,	NH3 Load,	Outlier	of TSS	of BOD	of NH3-N	TSS Load,	BOD Load,	NH3 Load,		of non-SN BOD Load,	
				Flow, mga	Flow, mga	Flow, mgd				Туре	(DPF)	Flow, mgd	mgd	mg/L	mg/L		mg/L	ppd	ppa	ppd	Туре	ьоаа, рра	Load, ppd	Load, ppd	ppd	ppd	ppd	ppd	ppd	Load, ppd
6/21/2013 6/22/2013	TRUE TRUE	TRUE TRUE	FALSE FALSE	3.31 3.30	7.90 7.31	5.48 5.24	60% 63%	42% 45%	69% 72%		1.44 1.40	5.8 5.7	5.5 5.5	277.00	220.00	0.79		12,660	10,055			12,587 12,587	9,990 9,990	1,106 1,106	12,660	10,055		12,587 12,587	9,990 9,990	1,106 1,106
6/23/2013	TRUE	TRUE	FALSE	3.28	7.47	5.35	61%	44%	72%		1.40	5.7	5.5									12,528	9,990	1,073				12,528	9,990	1,073
6/24/2013 6/25/2013	TRUE TRUE	TRUE TRUE	TRUE TRUE	3.30 3.34	7.97 8.20	5.75 5.80	57% 58%	41% 41%	72% 71%		1.39 1.41	5.7 5.7	5.5 5.6	298.00 322.00				14,291 15,576				12,394 12,639	9,744 9,744	1,073 1,073	14,291 15,090			12,394 12,602	9,744 9,744	1,073 1,073
6/26/2013	TRUE	TRUE	FALSE	3.40	8.00	5.69	60%	43%	71%		1.41	5.7	5.6	322.00			21.36	13,370		1,014		12,639	9,744	1,073	13,090		1,014	12,602	9,744	1,073
6/27/2013 6/28/2013	TRUE TRUE	TRUE TRUE	FALSE FALSE	3.21 3.18	7.84	5.77 5.51	56% 58%	41% 39%	74% 67%		1.36	5.7 5.7	5.6 5.6	347.00 321.00	185.00	0.58		16,698 14,751	8,501			12,929 13,236	9,744 9,543	1,061 1,061	16,698 14,751	8,501		12,894 13,201	9,744 9,543	1,061 1,061
6/29/2013	TRUE	TRUE	FALSE	3.36	8.17 8.02	5.35	63%	42%	67%		1.48 1.50	5.6	5.6	321.00	185.00	0.56		14,751	8,501			13,236	9,543	1,061	14,751	8,501		13,201	9,543	1,061
6/30/2013	TRUE	TRUE	FALSE	3.40	8.07	5.40	63%	42%	67%		1.49	5.6	5.6									13,152	9,543	1,028				13,115	9,543	1,028
7/1/2013 7/2/2013	TRUE TRUE	TRUE TRUE	FALSE FALSE	3.30 3.29	7.89 7.96	5.60 5.66	59% 58%	42% 41%	71% 71%		1.41 1.41	5.6 5.6	5.6 5.6	290.00	208.00	0.72		13,689	9,819			13,140 13,182	9,178 9,284	1,028 1,028	13,689	9,819		13,099 13,145	9,178 9,284	1,028 1,028
7/3/2013	TRUE	TRUE	FALSE	3.42	7.93	5.51	62%	43%	69%		1.44	5.6	5.6				18.44			847		13,182	9,284	992			847	13,145	9,284	992
7/4/2013 7/5/2013	TRUE TRUE	TRUE TRUE	FALSE FALSE	3.23 3.25	7.84 11.44	5.07 5.32	64% 61%	41% 28%	65% 47%	AvgMax	1.55 2.15	5.6 5.6	5.5 5.4	253.00	158.00	0.62		11,225	7,010			13,817 13,535	9,284 8,601	992 992	11,225	7,010		13,777 13,494	9,284 8,601	992 992
7/6/2013	TRUE	TRUE	FALSE	3.33	7.56	5.37	62%	44%	71%	J	1.41	5.6	5.4					,	,			13,535	8,601	992	,	,		13,494	8,601	992
7/7/2013 7/8/2013	TRUE TRUE	TRUE TRUE	FALSE FALSE	3.30 3.30	7.60 7.60	5.37 5.34	61% 62%	43% 43%	71% 70%		1.42 1.42	5.5 5.5	5.4 5.4	249.00				11,089				13,535 13,999	8,601 8,823	989 989	11,089			13,494 13,958	8,601 8,823	989 989
7/9/2013	TRUE	TRUE	FALSE	3.30	7.60	5.66	58%	43%	74%		1.34	5.5	5.4	304.00	154.00	0.51		14,350	7,269			14,026	8,564	989	14,350	7,269		13,988	8,564	989
7/10/2013 7/11/2013	TRUE TRUE	TRUE TRUE	FALSE FALSE	3.30 3.40	10.40 7.40	5.67 5.61	58% 61%	32% 46%	55% 76%	AvgMax	1.83 1.32	5.5 5.5	5.4 5.4	325.00			23.91	15,206		1,119		14,026 14,110	8,564 8,564	989 1,015	15,206		1,119	13,988 14,075	8,564 8,564	989 1,015
7/12/2013	TRUE	TRUE	FALSE	3.36	7.39	5.60	60%	45%	76%		1.32	5.5	5.5	285.00			23.31	13,311		1,113		14,057	8,564	1,015	13,311		1,113	14,024	8,564	1,015
7/13/2013 7/14/2013	TRUE TRUE	TRUE TRUE	FALSE FALSE	3.25 3.28	7.22 7.31	5.37 5.33	61% 62%	45% 45%	74% 73%		1.34 1.37	5.5 5.5	5.5 5.5									13,997 14,071	8,564 8,564	1,015 987				13,962 14,034	8,564 8,564	1,015 987
7/15/2013	TRUE	TRUE	FALSE	3.35	7.34	5.66	59%	46%	77%		1.30	5.5	5.5									14,197	8,531	987				14,156	8,531	987
7/16/2013	TRUE	TRUE	FALSE	3.39	7.40	5.59	61%	46% 47%	76%		1.32	5.5	5.5	287.00				13,380				14,134	8,531	987 987	13,380			14,096	8,531	987
7/17/2013 7/18/2013	TRUE TRUE	TRUE TRUE	FALSE FALSE	3.34 3.35	7.18 7.35	5.56 5.75	60% 58%	46%	77% 78%		1.29 1.28	5.5 5.5	5.5 5.6	210.00			20.76	10,071		996		14,134 13,844	8,531 8,531	989	10,071		996	14,096 13,809	8,531 8,531	987 989
7/19/2013	TRUE	TRUE	FALSE	3.40	7.50	5.64	60%	45%	75%		1.33	5.5	5.6	166.00	132.00	0.80		7,808	6,209			13,441	8,144	989	7,808	6,209		13,409	8,144	989
7/20/2013 7/21/2013	TRUE TRUE	TRUE TRUE	FALSE FALSE	3.40 3.37	7.50 7.44	5.43 5.53	63% 61%	45% 45%	72% 74%		1.38 1.35	5.5 5.5	5.5 5.6									13,441 13,150	8,144 8,144	989 994				13,409 13,116	8,144 8,144	989 994
7/22/2013	TRUE	TRUE	FALSE	3.35	7.61	5.78	58%	44%	76%		1.32	5.5	5.6	218.00	450.00			10,509				12,997	7,762	994	10,509			12,962	7,762	994
7/23/2013 7/24/2013	TRUE TRUE	TRUE TRUE	FALSE FALSE	3.35 3.32	7.57 7.27	5.78 5.66	58% 59%	44% 46%	76% 78%		1.31 1.28	5.5 5.6	5.6 5.6	214.00	169.00	0.79		10,316	8,147			12,818 12,818	7,826 7,826	994 994	9,794	8,021		12,751 12,751	7,805 7,805	994 994
7/25/2013	TRUE	TRUE	FALSE	3.40	7.37	5.67	60%	46%	77%		1.30	5.6	5.7	237.00			16.23	11,207		767		12,612	7,826	949	11,207		767	12,545	7,805	949
7/26/2013 7/27/2013	TRUE TRUE	TRUE TRUE	FALSE FALSE	3.34 3.38	7.94 7.42	5.46 5.30	61% 64%	42% 46%	69% 71%		1.45 1.40	5.5 5.5	5.6 5.6	225.00				10,246				12,257 12,257	7,826 7,826	949 932	10,246			12,222 12,222	7,805 7,805	949 932
7/28/2013	TRUE	TRUE	FALSE	3.34	8.30	5.48	61%	40%	66%		1.51	5.5	5.6									11,940	7,826	932				11,903	7,805	932
7/29/2013 7/30/2013	TRUE TRUE	TRUE TRUE	FALSE FALSE	3.30 3.28	7.48 7.01	5.59 5.55	59% 59%	44% 47%	75% 79%		1.34 1.26	5.5 5.5	5.6 5.6	229.00 211.00	166.00	0.79		10,676 9,767	7,684			11,649 11,523	7,691 7,690	932 932	10,676 9,767	7,684		11,612 11,489	7,666 7,669	932 932
7/31/2013	TRUE	TRUE	FALSE	3.44	7.38	5.63	61%	47%	76%		1.31	5.5	5.5	211.00	200.00	0.75		3,7.07	7,00			11,523	7,690	932	3,7.67	7,00		11,489	7,669	932
8/1/2013 8/2/2013	TRUE TRUE	TRUE TRUE	FALSE FALSE	3.23 3.37	7.24 7.39	5.61 5.59	58% 60%	45% 46%	77% 76%		1.29 1.32	5.5 5.5	5.5 5.5	295 00	161.00	0.55	23.46	13,753	7,506	1,098		11,523 11,528	7,690 7,304	965 965	13,753	7,506	1,098	11,489 11,493	7,669 7,283	965 965
8/3/2013	TRUE	TRUE	FALSE	3.27	7.53	5.31	62%	43%	71%		1.42	5.5	5.5	255.00	101.00	0.55		13,733	7,500			11,528	7,304	995	13,733	7,300		11,493	7,283	995
8/4/2013 8/5/2013	TRUE TRUE	TRUE TRUE	FALSE FALSE	3.31 3.17	7.23	5.37 5.66	62% 56%	46% 43%	74% 76%		1.35	5.5	5.5 5.5	245.00				11,565				11,528 11,550	7,304 7,363	995 995	11,565			11,493 11,515	7,283 7,338	995
8/6/2013	TRUE	TRUE	FALSE	3.24	7.41 7.41	5.68	57%	44%	77%		1.31 1.30	5.5 5.6	5.6		175.00	0.76		10,895	8,290			11,509	7,503	995	10,895	8,290		11,477	7,338	995 995
8/7/2013	TRUE	TRUE	FALSE	3.19	18.58	6.86	47%	17%		inMaxAvgM	2.71	5.6	5.6	220.00			20.20	11 025		1 045		11,509	7,517	995	11 025		1 045	11,477	7,497	995
8/8/2013 8/9/2013	TRUE TRUE	TRUE TRUE	FALSE FALSE	3.31 3.13	8.16 7.47	6.17 5.58	54% 56%	41% 42%	76% 75%		1.32 1.34	5.6 5.6	5.6 5.6	230.00 234.00			20.30	11,835 10,890		1,045		11,556 11,340	7,517 7,567	1,005 1,005	11,835 10,890		1,045	11,523 11,307	7,497 7,542	1,005 1,005
8/10/2013	TRUE	TRUE	FALSE	3.22	7.53	5.38	60%	43%	71%		1.40	5.6	5.6									11,340	7,567	1,005				11,307	7,542	1,005
8/11/2013 8/12/2013	TRUE TRUE	TRUE TRUE	FALSE FALSE	3.29 3.28	7.49 7.39	5.46 5.70	60% 58%	44% 44%	73% 77%		1.37 1.30	5.6 5.6	5.6 5.7	227.00				10,791				11,082 10,914	7,567 7,567	976 976	10,791			11,047 10,879	7,542 7,542	976 976
8/13/2013	TRUE	TRUE	FALSE	3.19	7.37	5.67	56%	43%	77%		1.30	5.6	5.7	256.00	185.00	0.72		12,106	8,748			10,988	7,764	976	12,106	8,748		10,956	7,743	976
8/14/2013 8/15/2013	TRUE TRUE	TRUE TRUE	FALSE FALSE	3.29 3.33	7.31 7.50	5.67 5.77	58% 58%	45% 44%	78% 77%		1.29 1.30	5.6 5.6	5.7 5.7	223.00			23.13	10,731		1,113		10,988 10,973	7,764 7,764	976 1,004	10,731		1,113	10,956 10,943	7,743 7,743	976 1,004
8/16/2013	TRUE	TRUE	FALSE	3.20	7.80	5.72	56%	41%	73%		1.36	5.6	5.6	234.00				11,163		, -		10,843	7,764	1,004	11,163		, -	10,812	7,743	1,004
8/17/2013 8/18/2013	TRUE TRUE	TRUE TRUE	FALSE FALSE	3.27 3.30	7.77 8.20	5.55 5.78	59% 57%	42% 40%	71% 70%		1.40 1.42	5.6 5.6	5.6 5.7									10,843 10,891	7,764 7,764	1,004 1,006				10,812 10,859	7,743 7,743	1,004 1,006
8/19/2013	TRUE	TRUE	FALSE	3.30	10.20	6.10	54%	32%	60%		1.67	5.6	5.7	274.00				13,939				11,274	8,075	1,006	13,939			11,242	8,050	1,006
8/20/2013 8/21/2013	TRUE TRUE	TRUE TRUE	FALSE FALSE	3.30 3.50	8.40 8.40	6.10 6.14	54% 57%	39% 42%	73% 73%		1.38 1.37	5.6 5.7	5.8 5.9	242.00	177.00	0.73		12,312	9,005			11,335 11,335	8,230 8,230	1,006 1,006	12,218	8,926		11,299 11,299	8,196 8,196	1,006 1,006
8/22/2013	TRUE	TRUE	FALSE	3.30	8.50	6.12	54%	39%	72%		1.39	5.7	5.9	245.00			24.92	12,505		1,272		11,453	8,230	1,059	12,505		1,272	11,417	8,196	1,059

Date	Butte Break?	CSU		Min											Influent		Influent											30-d Avg	30-d Avg	30-d Avg
0/22/2042	Break?		Precip?	Influent	Max Influent	Avg Influent		Min % of		Flow Outlier	Diurnal Peak	30-d Avg of Avg		Influent TSS Conc.,	BOD	BOD/TSS	NH3-N	Avg Inf TSS Load,	Avg Inf BOD Load,	Avg Inf NH3 Load,	Load Outlier	30-d Avg of TSS		30-d Avg of NH3-N				of non-SN	of non-SN	of non-SN
0/22/2012		Break?			Flow, mgd	Flow, mgd	Avg	Max	Max	Туре	Factor (DPF)	Flow, mgd	mgd	mg/L	Conc., mg/L	Ratio	Conc., mg/L	ppd	ppd	ppd	Туре	Load, ppd		Load, ppd		ppd	ppd	TSS Load, ppd	BOD Load, ppd	NH3-N Load, ppd
8/23/2013	TRUE	TRUE	FALSE	3.42	8.34	6.06	56%	41%	73%		1.38	5.7	5.9	249.00				12,585				11,586	8,246	1,059	12,585			11,581	8,231	1,059
8/24/2013 8/25/2013	TRUE TRUE	TRUE TRUE	FALSE FALSE	3.33 3.34	8.94 8.95	5.94 6.17	56% 54%	37% 37%	66% 69%		1.51 1.45	5.7 5.7	6.0 6.1									11,586 11,610	8,246 8,246	1,059 1,132				11,581 11,604	8,231 8,231	1,059 1,132
8/26/2013	TRUE	TRUE	FALSE	3.29	8.92	6.27	52%	37%	70%		1.42	5.7	6.1	126.00				6,589				11,381	8,246	1,132	6,589			11,375	8,231	1,132
8/27/2013 8/28/2013	FALSE FALSE	FALSE FALSE	FALSE FALSE	3.24 3.42	9.09 9.19	6.22 6.38	52% 54%	36% 37%	68% 69%		1.46 1.44	5.8 5.8	6.1 6.2	202.00	163.00	0.81		10,479	8,456			11,328 11,328	8,281 8,281	1,132 1,132	10,479	8,456		11,323 11,323	8,268 8,268	1,132 1,132
8/29/2013	FALSE	FALSE	FALSE	3.26	9.53	6.31	52%	34%	66%		1.51	5.8	6.2	204.00			22.99	10,736		1,210		11,332	8,281	1,132	10,736		1,210	11,326	8,268	1,147
8/30/2013	FALSE	FALSE	FALSE	3.20	9.60	6.20	52%	33%	65%		1.55	5.8	6.2	170.00				8,790				11,274	8,401	1,147	8,790			11,269	8,385	1,147
8/31/2013 9/1/2013	FALSE FALSE	FALSE FALSE	FALSE FALSE	3.22	8.63	5.81 5.79	56%	37%	67%	gMinMaxA	0.00 1.49	5.9 5.9	6.2 6.2									11,274 11,274	8,401 8,401	1,147 1,160				11,269 11,269	8,385 8,385	1,147 1,160
9/2/2013	FALSE	FALSE	FALSE	3.20	8.60	5.80	55%	37%	67%		1.48	5.9	6.1									11,119	8,625	1,160				11,114	8,605	1,160
9/3/2013	FALSE	FALSE FALSE	FALSE FALSE	3.30	9.40	6.25	53% 52%	35% 35%	66%		1.50	5.9 5.9	6.1 6.1	195.00				10,164				11,063	8,625	1,160	10,164			11,058	8,605	1,160
9/4/2013 9/5/2013	FALSE FALSE	FALSE	FALSE	3.24 3.19	9.16 8.98	6.26 6.28	51%	35%	68% 70%		1.46 1.43	5.9	6.1				26.42			1,384		11,063 11,032	8,625 8,625	1,160 1,205			1,384	11,058 11,026	8,605 8,605	1,160 1,205
9/6/2013	FALSE	FALSE	FALSE	3.19	8.71	6.17	52%	37%	71%		1.41	6.0	6.1	236.00	176.00	0.75		12,144	9,057	,		11,110	8,816	1,205	12,144	9,057	,	11,104	8,797	1,205
9/7/2013 9/8/2013	FALSE FALSE	FALSE FALSE	FALSE FALSE	3.23 3.26	8.69 8.85	6.04 6.11	53% 53%	37% 37%	70% 69%		1.44 1.45	6.0 6.0	6.1 6.1									11,110 11,062	8,816 8,816	1,205 1,245				11,104 11,055	8,797 8,797	1,205 1,245
9/9/2013	FALSE	FALSE	FALSE	3.22	8.46	6.20	52%	38%	73%		1.36	6.0	6.1	222.00			25.12	11,479		1,299		11,101	8,816	1,245	11,479		1,299	11,095	8,797	1,243
9/10/2013	FALSE	FALSE	FALSE	3.16	8.31	6.21	51%	38%	75%		1.34	6.0	6.2	239.00	168.00	0.70		12,378	8,701			11,181	8,793	1,256	12,378	8,701		11,175	8,777	1,256
9/11/2013 9/12/2013	FALSE FALSE	FALSE FALSE	FALSE FALSE	3.41 3.30	8.85 8.83	6.83 6.59	50% 50%	39% 37%	77% 75%		1.30 1.34	6.1 6.1	6.3	230.00				12,641				11,181 11,296	8,793 8,793	1,256 1,256	12,641			11,175 11,290	8,777 8,777	1,256 1,256
9/13/2013	FALSE	FALSE	FALSE	3.23	8.86	6.33	51%	36%	71%		1.40	6.1	6.3	230.00	94.00			12,041	4,962			11,242	8,036	1,256	12,041	4,962		11,236	8,020	1,256
9/14/2013	FALSE	FALSE	FALSE	3.33	9.12	6.08	55%	37%	67%		1.50	6.1	6.3									11,242	8,036	1,256				11,236	8,020	1,256
9/15/2013 9/16/2013	FALSE FALSE	FALSE FALSE	FALSE FALSE	3.29 3.33	8.70 8.87	6.11 6.34	54% 53%	38% 38%	70% 71%		1.42 1.40	6.1 6.2	6.3	213.00				11,263				11,279 11,286	8,036 8,036	1,291 1,291	11,263			11,272 11,279	8,020 8,020	1,291 1,291
9/17/2013	FALSE	FALSE	FALSE	3.45	8.90	6.23	55%	39%	70%		1.43	6.2	6.3	231.00	142.00	0.61		12,002	7,378			11,334	7,926	1,291	12,002	7,378		11,327	7,913	1,291
9/18/2013	FALSE	FALSE	FALSE	3.37	9.15	6.33	53%	37%	69%		1.45	6.2	6.4	200.00			22.04	44.505		4 4 4 7		11,334	7,926	1,291	44505		4 4 4 7	11,327	7,913	1,291
9/19/2013 9/20/2013	FALSE FALSE	FALSE FALSE	FALSE FALSE	3.35 3.26	8.84 8.89	6.25 6.09	54% 54%	38% 37%	71% 69%		1.41 1.46	6.2 6.2	6.3 6.2	280.00 223.00	160.00	0.72	22.01	14,595 11,326	8,126	1,147		11,377 11,312	7,926 7,780	1,262 1,262	14,595 11,326	8,126	1,147	11,371 11,312	7,913 7,780	1,262 1,262
9/21/2013	FALSE	FALSE	TRUE	3.33	10.01	6.57	51%	33%	66%		1.52	6.2	6.3					,	-, -			11,312	7,780	1,262	, ,	-, -		11,312	7,780	1,262
9/22/2013	FALSE	FALSE FALSE	TRUE	3.34	9.76	6.56	51%	34% 37%	67%		1.49	6.2	6.3	254.00				13,663				11,226	7,780	1,260	12 662			11,226	7,780	1,260
9/23/2013 9/24/2013	FALSE FALSE	FALSE	FALSE TRUE	3.34 3.29	9.01 10.10	6.45 6.51	52% 51%	37%	72% 64%		1.40 1.55	6.2 6.3	6.4 6.4	254.00 222.00	172.00	0.77		12,053	9,338			11,304 11,354	7,780 8,003	1,260 1,260	13,663 11,821	9,255		11,304 11,338	7,780 7,991	1,260 1,260
9/25/2013	FALSE	FALSE	TRUE	3.37	9.54	6.47	52%	35%	68%		1.47	6.3	6.4									11,354	8,003	1,260				11,338	7,991	1,260
9/26/2013 9/27/2013	FALSE FALSE	FALSE FALSE	FALSE FALSE	3.32 3.30	9.16 8.68	6.48 6.17	51% 53%	36% 38%	71% 71%		1.41 1.41	6.3 6.3	6.4 6.4	235.00 247.00			23.21	12,700 12,710		1,254		11,761 11,910	8,003 7,927	1,259 1,259	12,700 12,710		1,254	11,745 11,894	7,991 7,913	1,259 1,259
9/28/2013	FALSE	FALSE	FALSE	3.23	9.05	6.10	53%	36%	67%		1.48	6.3	6.4	247.00				12,710				11,910	7,927	1,259	12,710			11,894	7,913	1,259
9/29/2013	FALSE	FALSE	FALSE	3.30	10.50	6.31	52%	31%	60%		1.66	6.3	6.4									11,994	7,927	1,271				11,977	7,913	1,271
9/30/2013 10/1/2013	FALSE FALSE	FALSE FALSE	FALSE FALSE	3.30 3.24	9.00 8.92	6.21 6.16	53% 53%	37% 36%	69% 69%		1.45 1.45	6.3	6.3	212.00 231.00	181.00	0.78		10,980 11,867	9,299			12,150 12,131	7,927 8,123	1,271 1,271	10,980 11,867	9,299		12,133 12,116	7,913 8,111	1,271 1,271
10/2/2013	FALSE	FALSE	FALSE	3.20	9.00	6.14	52%	36%	68%		1.47	6.3	6.3	202.00	101.00	0.70		22,007	3,233			12,131	8,123	1,271	11,007	3,233		12,116	8,111	1,271
10/3/2013	FALSE	FALSE	FALSE	3.30	9.10	6.24	53%	36%	69%		1.46	6.3	6.2	223.00	457.00	0.54	24.06	11,605	7.007	1,252		12,098	8,123	1,267	11,605	7.007	1,252	12,084	8,111	1,267
10/4/2013 10/5/2013	FALSE FALSE	FALSE FALSE	FALSE FALSE	3.32 3.23	8.63 9.17	6.10 6.10	54% 53%	38% 35%	71% 67%		1.41 1.50	6.3	6.2 6.2	246.00	157.00	0.64		12,515	7,987			12,245 12,245	8,106 8,106	1,267 1,267	12,515	7,987		12,231 12,231	8,096 8,096	1,267 1,267
10/6/2013	FALSE	FALSE	FALSE	3.30	8.90	6.10	54%	37%	69%		1.46	6.3	6.2									12,245	8,106	1,238				12,231	8,096	1,238
10/7/2013	FALSE	FALSE	FALSE	3.32	8.70	6.22	53%	38%	71%		1.40	6.3	6.2	279.00	157.00	0.03		14,473	9 10E			12,391	7,970	1,238	14,473	9 10E		12,376	7,958	1,238
10/8/2013 10/9/2013	FALSE FALSE	FALSE FALSE	FALSE FALSE	3.34 3.34	8.95 9.09	6.19 6.23	54% 54%	37% 37%	69% 69%		1.45 1.46	6.3	6.2 6.2	192.00	157.00	0.82		9,912	8,105			12,245 12,245	7,987 7,987	1,238 1,238	9,912	8,105		12,231 12,231	7,977 7,977	1,238 1,238
10/10/2013	FALSE	FALSE	FALSE	3.33	8.68	6.26	53%	38%	72%		1.39	6.3	6.2	270.00			34.04	14,096		1,777		12,399	7,987	1,358	14,096		1,777	12,385	7,977	1,358
10/11/2013 10/12/2013	FALSE FALSE	FALSE FALSE	FALSE	3.20	8.70 9.10	6.16	52% 55%	37% 36%	71% 66%		1.41	6.3	6.2 6.2	209.00	177.00	0.85		10,737	9,093			12,302	8,036 8,036	1,358 1,358	10,737	9,093		12,289	8,026 8,026	1,358 1,358
10/12/2013	FALSE FALSE	FALSE	TRUE FALSE	3.30 3.25	9.10 9.52	6.01 6.03	55%	36%	63%		1.51 1.58	6.3 6.2	6.2									12,302 12,281	8,036 8,036	1,358				12,289 12,267	8,026 8,026	1,358
10/14/2013	FALSE	FALSE	FALSE	3.26	8.73	6.16	53%	37%	71%		1.42	6.2	6.2	232.00				11,919				12,260	8,475	1,358	11,919			12,246	8,463	1,358
10/15/2013 10/16/2013	FALSE FALSE	FALSE FALSE	FALSE FALSE	3.25 3.22	8.68 8.80	6.16 6.15	53% 52%	37% 37%	71% 70%		1.41 1.43	6.2 6.2	6.2	231.00	200.00	0.87		11,867	10,275			12,238 12,238	8,700 8,700	1,358 1,358	11,496	10,196		12,205 12,205	8,680 8,680	1,358 1,358
10/10/2013	FALSE	FALSE	FALSE	3.31	8.94	6.22	53%	37%	70%		1.44	6.2	6.1	251.00			28.72	13,021		1,490		12,336	8,700	1,384	13,021		1,490	12,302	8,680	1,384
10/18/2013	FALSE	FALSE	FALSE	3.34	8.82	6.10	55%	38%	69%		1.45	6.2	6.1	242.00	192.00	0.79		12,312	9,768			12,353	8,999	1,384	12,312	9,768		12,319	8,979	1,384
10/19/2013 10/20/2013	FALSE FALSE	FALSE FALSE	FALSE FALSE	3.31 3.24	8.98 9.13	5.99 6.03	55% 54%	37% 35%	67% 66%		1.50 1.51	6.2 6.2	6.1 6.1									12,353 12,221	8,999 8,999	1,384 1,443				12,319 12,186	8,979 8,979	1,384 1,443
10/21/2013	FALSE	FALSE	FALSE	3.24	8.76	6.34	51%	37%	72%		1.38	6.2	6.1	225.00				11,897				12,255	9,124	1,443	11,897			12,219	9,101	1,443
10/22/2013	FALSE	FALSE	FALSE	3.27	8.53	6.13	53%	38%	72%		1.39	6.2	6.1	248.00	164.00	0.66		12,679	8,384			12,278	9,031	1,443	12,679	8,384		12,245	9,011	1,443
10/23/2013 10/24/2013	FALSE FALSE	FALSE FALSE	FALSE FALSE	3.23 3.26	8.43 12.29	6.17 6.63	52% 49%	38% 27%	73% 54%	AvgMax	1.37 1.85	6.2 6.2	6.1 6.1	158.00			30.26	8,736		1,673		12,278 12,004	9,031 9,031	1,443 1,489	8,736		1,673	12,245 11,971	9,011 9,011	1,443 1,489

											Diurnal				Influent		Influent											20 d Ava	20 d Ava	20 d Ava
Date	Butte	CSU	Precip?	Min Influent	Max Influent	Avg Influent	Min % of	Min % of	Avg % of	Flow Outlier	Diurnal Peak	30-d Avg		Influent TSS Conc.,	Influent BOD	BOD/TSS	Influent NH3-N	Avg Inf	Avg Inf BOD Load,	Avg Inf	Load Outlier	30-d Avg of TSS		30-d Avg of NH3-N					30-d Avg of non-SN	
Jule	Break?	Break?	rreeip.		d Flow, mgd		Avg	Max	Max	Туре	Factor (DPF)	Flow, mgd	mgd	mg/L	Conc., mg/L	Ratio	Conc., mg/L	ppd	ppd	ppd	Туре			Load, ppd		ppd	ppd	TSS Load, ppd	BOD Load, ppd	NH3-N Load, ppd
10/25/201	3 FALSE	FALSE	FALSE	3.37	8.39	6.12	55%	40%	73%		1.37	6.2	6.1	158.00	141.00	0.89		8,064	7,197			11,783	8,764	1,489	8,064	7,197		11,762	8,754	1,489
10/26/201		FALSE	FALSE	3.36	8.95	5.92	57%	38%	66%		1.51	6.2	6.1									11,783	8,764	1,489				11,762	8,754	1,489
10/27/201 10/28/201		FALSE FALSE	TRUE TRUE	3.26 3.28	8.71 8.59	6.03 6.22	54% 53%	37% 38%	69% 72%		1.44 1.38	6.1 6.1	6.1 6.1	220.00				11,412				11,729 11,653	8,764 8,764	1,548 1,548	11,412			11,707 11,631	8,754 8,754	1,548 1,548
10/29/201		FALSE	FALSE	3.20	9.16	6.10	52%	35%	67%		1.50	6.1	6.1	249.00	193.00	0.78		12,668	9,819			11,709	8,881	1,548	12,668	9,819		11,688	8,872	1,548
10/30/201 10/31/201		FALSE FALSE	FALSE FALSE	3.45	8.17 8.16	5.55 6.10	57%	42%	68% 75%	inAvgMinM	1.47 1.34	6.1 6.1	6.1 6.1	272.00			24.89	13,838		1,266		11,709 11,868	8,881 8,881	1,548 1,492	13,838		1,266	11,688 11,847	8,872 8,872	1,548 1,492
11/1/2013		FALSE	FALSE	3.40	8.10	6.16	55%	42%	76%		1.31	6.1	6.1	242.00	201.00	0.83	24.03	12,433	10,326	1,200		11,899	8,995	1,492	12,433	10,326	1,200	11,879	8,986	1,492
11/2/2013		FALSE	FALSE	3.30	8.60	6.16	54%	38%	72%		1.40	6.1	6.1									11,899	8,995	1,492				11,879	8,986	1,492
11/3/2013 11/4/2013		FALSE FALSE	FALSE FALSE	3.29 3.31	9.08 9.17	6.15 6.62	53% 50%	36% 36%	68% 72%		1.48 1.39	6.1 6.1	6.1 6.2	222.00				12,257				11,916 11,901	8,995 9,121	1,552 1,552	12,257			11,895 11,879	8,986 9,111	1,552 1,552
11/5/2013		FALSE	FALSE	6.42	12.43	9.71	66%	52%	78%		1.28	6.3	6.7	217.00	196.00	0.90		17,573	15,872			12,216	9,871	1,552	17,573	15,872		12,196	9,862	1,552
11/6/2013		FALSE	FALSE	3.37	11.80	6.66	51%	29%	56%	AvgMax	1.77	6.3	6.8	250.00								12,216	9,871	1,552				12,196	9,862	1,552
11/7/2013 11/8/2013		FALSE FALSE	FALSE FALSE	3.32 3.33	8.59 8.96	6.18 6.12	54% 54%	39% 37%	72% 68%		1.39 1.46	6.3 6.3	6.7 6.7	259.00 277.00	195.00	0.70	28.64	13,349 14,138	9,953	1,476		12,154 12,389	9,871 10,076	1,537 1,537	13,349 14,138	9,953	1,476	12,133 12,368	9,862 10,068	1,537 1,537
11/9/2013		FALSE	FALSE	3.26	8.89	6.03	54%	37%	68%		1.47	6.3	6.7					,	2,522			12,389	10,076	1,537	_ ,,	5,555		12,368	10,068	1,537
11/10/201		FALSE	FALSE	3.26	8.93	5.97	55%	37%	67%		1.50	6.3	6.7									12,288	10,076	1,476				12,266	10,068	1,476
11/11/201 11/12/201		FALSE FALSE	FALSE FALSE	3.30 3.30	9.30 9.00	6.30 6.28	52% 53%	35% 37%	68% 70%		1.48 1.43	6.3 6.3	6.7 6.7	223.00	215.00	0.96		11,680	11,261			12,385 12,344	10,199 10,317	1,476 1,476	11,342	11,081		12,362 12,302	10,189 10,288	1,476 1,476
11/13/201		FALSE	FALSE	3.31	9.06	6.40	52%	37%	71%		1.42	6.3	6.2					,	, -			12,344	10,317	1,476	,-	,		12,302	10,288	1,476
11/14/201		FALSE FALSE	FALSE FALSE	3.30 3.27	8.83	6.30	52%	37% 38%	71%		1.40	6.3	6.2	235.00	250.00	0.05	27.28	12,347	12 201	1,433		12,369	10,317	1,468	12,347	12 201	1,433	12,327	10,288	1,468
11/15/201 11/16/201		FALSE	FALSE	3.27	8.67 8.88	6.23 6.09	52% 54%	37%	72% 69%		1.39 1.46	6.3 6.3	6.2 6.2	300.00	256.00	0.85		15,587	13,301			12,588 12,588	10,653 10,653	1,468 1,468	15,587	13,301		12,568 12,568	10,633 10,633	1,468 1,468
11/17/201	3 FALSE	FALSE	FALSE	3.25	9.51	6.23	52%	34%	66%		1.53	6.3	6.2									12,561	10,653	1,462				12,540	10,633	1,462
11/18/201		FALSE	FALSE	3.29	8.78	6.30	52%	37%	72%		1.39	6.3	6.3	160.00	102.00	0.00		8,407	11 112			12,317	10,764	1,462	8,407	11 112		12,296	10,742	1,462
11/19/201 11/20/201		FALSE FALSE	TRUE TRUE	3.44 3.53	9.33 9.79	6.94 6.93	50% 51%	37% 36%	74% 71%		1.34 1.41	6.3 6.4	6.3 6.4	194.00	192.00	0.99	20.27	11,229	11,113	1,172		12,253 12,253	10,803 10,803	1,462 1,404	11,229	11,113	1,172	12,233 12,233	10,783 10,783	1,462 1,404
11/21/201		FALSE	FALSE	3.55	9.49	6.79	52%	37%	72%		1.40	6.4	6.5	217.00				12,288		,		12,276	10,803	1,404	12,288		,	12,256	10,783	1,404
11/22/2013		TRUE	FALSE	3.30	9.01	6.39	52%	37%	71%		1.41	6.4	6.5									12,250	11,105	1,404				12,229	11,083	1,404
11/23/201 11/24/201		TRUE TRUE	FALSE FALSE	3.22 3.22	9.43 9.05	5.97 5.87	54% 55%	34% 36%	63% 65%		1.58 1.54	6.4 6.4	6.5 6.4									12,250 12,485	11,105 11,105	1,404 1,337				12,229 12,462	11,083 11,083	1,404 1,337
11/25/201	3 FALSE	TRUE	FALSE	3.24	8.82	5.98	54%	37%	68%		1.47	6.4	6.4	232.00				11,571				12,718	11,664	1,337	11,571			12,696	11,638	1,337
11/26/201		TRUE	FALSE	3.19	8.42	5.96	54%	38% 37%	71%		1.41	6.4	6.4	210.00			22.22	10,438		1 1 1 1 5		12,576	11,664	1,337	10,438		1 145	12,555	11,638	1,337
11/27/201 11/28/201		TRUE TRUE	FALSE FALSE	3.19 3.21	8.60 9.33	5.91 5.34	54% 60%	34%	69% 57%	AvgMax	1.46 1.75	6.4 6.4	6.2 6.1				23.23			1,145		12,576 12,653	11,664 11,664	1,298 1,298			1,145	12,555 12,631	11,638 11,638	1,298 1,298
11/29/201	3 TRUE	TRUE	FALSE	3.25	8.00	5.41	60%	41%	68%	J	1.48	6.3	5.9									12,652	11,971	1,298				12,628	11,941	1,298
11/30/201		TRUE TRUE	FALSE	3.29 3.26	8.29	5.54	59% 54%	40%	67%		1.50	6.3 6.3	5.8 5.8									12,652	11,971	1,298 1,307				12,628	11,941	1,298
12/1/2013 12/2/2013		TRUE	FALSE FALSE	3.28	8.79 8.83	6.00 6.24	53%	37% 37%	68% 71%		1.47 1.42	6.3	5.8	297.00				15,456				12,561 12,794	11,971 12,300	1,307	15,456			12,535 12,768	11,941 12,264	1,307 1,307
12/3/2013		FALSE	FALSE	3.28	8.97	6.22	53%	37%	69%		1.44	6.3	5.9	230.00	257.00	1.12		11,931	13,332			12,732	12,472	1,307	11,409	13,176		12,671	12,416	1,307
12/4/2013		FALSE	FALSE	3.25	9.29	6.32	51%	35%	68%		1.47	6.3	5.9				22.00			1 224		12,732	12,472	1,307			1 224	12,671	12,416	1,307
12/5/2013 12/6/2013		FALSE FALSE	FALSE TRUE	3.26 3.26	9.17 9.15	6.17 6.43	53% 51%	36% 36%	67% 70%		1.49 1.42	6.3 6.2	6.0 6.0	320.00	537.00	1.68	23.99	17,160	28,797	1,234	BOD	12,769 12,737	12,472 11,792	1,292 1,292	17,160	28,797	1,234	12,703 12,671	12,416 11,725	1,292 1,292
12/7/2013	FALSE	FALSE	FALSE	3.35	9.65	6.28	53%	35%	65%		1.54	6.2	6.2									12,737	11,792	1,292				12,671	11,725	1,292
12/8/2013		FALSE	FALSE	3.38	8.76	4.94 6.40	68% 53%	39% 37%	56% 69%	AvgMax	1.77	6.2	6.2	227.00				12 650				12,686	11,792 12,252	1,246	12 650			12,615	11,725	1,246
12/9/2013 12/10/2013		FALSE FALSE	FALSE FALSE	3.38 3.28	9.25 9.09	6.40 6.26	53%	37% 36%	69% 69%		1.45 1.45	6.2 6.2	6.3 6.3	237.00 239.00				12,650 12,478				12,562 12,556	12,252	1,246 1,246	12,650 12,478			12,491 12,490	12,168 12,168	1,246 1,246
12/11/201	B FALSE	FALSE	FALSE	3.22	9.39	6.29	51%	34%	67%		1.49	6.2	6.3					·				12,556	12,252	1,246				12,490	12,168	1,246
12/12/201 12/13/201		FALSE	FALSE	3.27	9.08	6.25	52%	36%	69%		1.45	6.2	6.3	345.00	420.00	1.01	29.48	17,983	22.262	1,537	BOD.	12,943	12,252	1,304	17,983	22.262	1,537	12,882	12,168	1,304
12/13/201		FALSE FALSE	FALSE FALSE	3.30 3.30	9.10 9.60	6.25 6.14	53% 54%	36% 34%	69% 64%		1.46 1.56	6.2 6.2	6.3	225.00	429.00	1.91		11,728	22,362		BOD	12,947 12,947	12,582 12,582	1,304 1,304	11,728	22,362		12,909 12,909	12,530 12,530	1,304 1,304
12/15/201	3 FALSE	FALSE	FALSE	3.24	9.40	6.15	53%	34%	65%		1.53	6.2	6.2									12,993	12,582	1,272				12,953	12,530	1,272
12/16/201		FALSE FALSE	FALSE	3.20	9.19	6.25	51% 52%	35% 37%	68%		1.47	6.2	6.2 6.2	277.00 236.00				14,439 12,223				12,904	12,222	1,272	14,439			12,864	12,144	1,272
12/17/201 12/18/201		FALSE	FALSE FALSE	3.26 3.29	8.84 9.11	6.21 6.21	52% 53%	36%	70% 68%		1.42	6.2 6.2	6.2	230.00				12,223				12,856 12,856	12,222 12,222	1,272 1,272	12,223			12,819 12,819	12,144 12,144	1,272 1,272
12/19/201	3 FALSE	FALSE	FALSE	3.27	8.89	6.14	53%	37%	69%		1.45	6.2	6.2	248.00	241.00	0.97		12,699	12,341			13,162	12,262	1,272	12,699	12,341		13,125	12,210	1,272
12/20/201 12/21/201		TRUE	FALSE	3.21	8.93	6.04 5.76	53%	36% 35%	68%		1.48	6.2	6.2	270.00			24.27	13,601		1,223		13,332	12,836	1,262	13,601		1,223	13,295	12,758	1,262
12/21/201		TRUE TRUE	FALSE FALSE	3.18 3.10	9.21 8.70	5.76 5.55	55% 56%	35% 36%	63% 64%		1.60 1.57	6.1 6.1	6.1									13,332 13,412	12,836 12,836	1,285 1,285				13,295 13,372	12,758 12,758	1,285 1,285
12/23/201	3 TRUE	TRUE	FALSE	3.20	8.70	5.68	56%	37%	65%		1.53	6.1	6.0									13,412	12,836	1,285				13,372	12,758	1,285
12/24/201 12/25/201		TRUE TRUE	FALSE FALSE	3.20	8.80	5.40	59% 65%	36% 44%	61%		1.63	6.0	5.9									13,412	12,836	1,285				13,372	12,758	1,285
12/25/201		TRUE	FALSE	3.10 3.10	7.10 8.10	4.76 5.41	57%	38%	67% 67%		1.49 1.50	6.0 6.0	5.7 5.6	74.00	91.00	1.23		3,339	4,106		TSS	13,412 13,566	12,836 9,926	1,285 1,285	3,339	4,106		13,372 13,522	12,758 9,874	1,285 1,285

				Min	Max	Δνσ				Flow	Diurnal	20 d Ava	7-d Avg of	Influent	Influent		Influent	Avg Inf	Avg Inf	Avg Inf	Load	20 d Ava	20 d Ava	20 d Ava	non SN	non-SN	non SN	30-d Avg	30-d Avg	30-d Avg
Date	Butte Break?	CSU Break?	Precip?	Influent	Influent	Avg Influent	Min % of Avg	Min % of Max	Avg % of Max	Outlier	Peak Factor	of Avg	Avg Flow,	TSS Conc.,	BOD Conc	BOD/TSS Ratio	NH3-N Conc.,	Avg Inf TSS Load,	BOD Load,		Outlier	of TSS				BOD Load,			of non-SN BOD Load,	
				Flow, mgd	f Flow, mgc	l Flow, mgd				Туре	(DPF)	Flow, mgd	mgd	mg/L	mg/L		mg/L	ppd	ppd	ppd	Туре	Load, ppd	Load, ppd	Load, ppd	ppd	ppd	ppd	ppd	ppd	Load, ppd
12/27/2013	TRUE TRUE	TRUE TRUE	FALSE FALSE	3.17	8.83	5.49 5.35	58% 60%	36% 38%	62%		1.61	6.0 6.0	5.5	280.00			23.07	12,820		1,056		13,764	9,926	1,239 1,262	12,820		1,056	13,721 13,721	9,874 9,874	1,239
12/28/2013 12/29/2013	TRUE	TRUE	FALSE	3.19 3.12	8.31 8.21	5.28	60% 59%	38%	64% 64%		1.55 1.55	5.9	5.4 5.4									13,764 13,764	9,926 9,926	1,262				13,721	9,874	1,262 1,262
12/30/2013	TRUE	TRUE	FALSE	3.14	8.09	5.52	57%	39%	68%		1.47	5.9	5.4	244.00				11,233				13,569	9,926	1,262	11,233			13,529	9,874	1,262
12/31/2013 1/1/2014	TRUE TRUE	TRUE TRUE	FALSE FALSE	3.16 3.18	8.41 7.98	5.58 5.23	57% 61%	38% 40%	66% 66%		1.51 1.53	5.9 5.9	5.3 5.3	317.00				14,752				13,654 13,654	9,926 9,926	1,262 1,262	14,752			13,617 13,617	9,874 9,874	1,262 1,262
1/2/2014	TRUE	TRUE	FALSE	3.19	8.26	5.54	58%	39%	67%		1.49	5.9	5.4	261.00	272.00	4 22	26.37	12,059	42.625	1,218		13,411	9,926	1,254	12,059	12.525	1,218	13,374	9,874	1,254
1/3/2014 1/4/2014	TRUE TRUE	TRUE TRUE	FALSE FALSE	3.20 3.07	8.08 8.51	5.57 5.53	57% 56%	40% 36%	69% 65%		1.45 1.54	5.9 5.8	5.4 5.5	221.00	272.00	1.23		10,266	12,635			13,292 13,292	9,694 9,694	1,254 1,254	10,266	12,635		13,292 13,292	9,694 9,694	1,254 1,254
1/5/2014	TRUE	TRUE	FALSE	3.00	8.47	5.56	54%	35%	66%		1.52	5.8	5.5									13,292	9,694	1,258				13,292	9,694	1,258
1/6/2014 1/7/2014	TRUE TRUE	TRUE TRUE	FALSE FALSE	3.09 3.11	8.37 8.27	5.71 5.71	54% 54%	37% 38%	68% 69%		1.47 1.45	5.8 5.8	5.5 5.6	311.00 360.00	442.00	1.23		14,810 17,144	21,049		BOD	13,124 13,392	9,694 9,694	1,258 1,258	14,810 17,144	21,049		13,124 13,392	9,694 9,694	1,258 1,258
1/8/2014	TRUE	TRUE	FALSE	3.09	8.45	5.71	54%	37%	68%		1.48	5.8	5.6					·				13,392	9,694	1,258				13,392	9,694	1,258
1/9/2014 1/10/2014	TRUE TRUE	TRUE TRUE	FALSE FALSE	3.09 3.05	8.31 8.70	5.66 5.70	55% 54%	37% 35%	68% 66%		1.47 1.53	5.7 5.7	5.6 5.6	257.00 258.00	290.00	1.12	23.79	12,132 12,265	13,786	1,123		13,358 13,344	9,694 10,717	1,231 1,231	12,132 12,265	13,786	1,123	13,358 13,344	9,694 10,717	1,231 1,231
1/11/2014	TRUE	TRUE	FALSE	3.12	8.55	5.57	56%	36%	65%		1.54	5.7	5.6	230.00	250.00			12,200	10,700			13,344	10,717	1,231	12,203	20,700		13,344	10,717	1,231
1/12/2014 1/13/2014	TRUE TRUE	TRUE TRUE	FALSE FALSE	3.02 3.04	8.80 8.32	5.65 5.71	53% 53%	34% 37%	64% 69%		1.56 1.46	5.7 5.7	5.7 5.7									13,012 13,111	10,717 10,717	1,155 1,155				13,012 13,111	10,717 10,717	1,155 1,155
1/13/2014	TRUE	TRUE	FALSE	3.14	8.48	5.68	55%	37%	67%		1.49	5.7	5.7	281.00	319.00	1.14		13,311	15,111			13,111	11,596	1,155	13,311	15,111		13,111	11,596	1,155
1/15/2014	TRUE	TRUE	FALSE	3.11	8.37	5.69	55%	37%	68%		1.47	5.6	5.7	276.00			24.25	12.100		1.020		13,125	11,596	1,155	12.100		1.020	13,125	11,596	1,155
1/16/2014 1/17/2014	TRUE TRUE	TRUE TRUE	FALSE FALSE	3.05 3.12	8.48 8.19	5.73 5.71	53% 55%	36% 38%	68% 70%		1.48 1.43	5.6 5.6	5.7 5.7	276.00 284.00	218.00	0.77	21.35	13,190 13,524	10,381	1,020		13,036 13,129	11,596 11,394	1,128 1,128	13,190 13,524	10,381	1,020	13,036 13,129	11,596 11,394	1,128 1,128
1/18/2014	TRUE	TRUE	FALSE	3.09	9.37	5.71	54%	33%	61%		1.64	5.6	5.7									13,129	11,394	1,128				13,129	11,394	1,128
1/19/2014 1/20/2014	TRUE TRUE	TRUE TRUE	FALSE FALSE	3.05 3.07	9.48 9.41	5.60 5.93	54% 52%	32% 33%	59% 63%		1.69 1.59	5.6 5.6	5.7 5.7									13,162 13,126	11,204 11,204	1,128 1,104				13,162 13,126	11,204 11,204	1,128 1,104
1/21/2014	TRUE	FALSE	FALSE	3.09	9.01	5.98	52%	34%	66%		1.51	5.6	5.8	355.00	172.00	0.48		17,705	8,578			13,478	10,766	1,104	17,291	8,441		13,446	10,744	1,104
1/22/2014 1/23/2014	TRUE TRUE	FALSE FALSE	FALSE FALSE	3.14 3.13	9.01 8.86	6.00 5.99	52% 52%	35% 35%	67% 68%		1.50 1.48	5.6 5.6	5.8 5.8	293.00			24.36	14,637		1,217		13,478 13,561	10,766 10,766	1,104 1,127	14,637		1,217	13,446 13,531	10,744 10,744	1,104 1,127
1/24/2014	TRUE	FALSE	FALSE	3.10	8.70	5.95	52%	36%	68%		1.46	5.6	5.9	261.00	222.00	0.85	2	12,952	11,016	_,,		13,520	10,802	1,127	12,952	11,016	_,,	13,492	10,783	1,127
1/25/2014 1/26/2014	TRUE TRUE	FALSE FALSE	FALSE FALSE	3.10 3.07	9.30 9.39	5.79 5.90	54% 52%	33% 33%	62% 63%		1.61 1.59	5.7 5.7	5.9 5.9									13,520 13,520	10,802 11,918	1,127 1,127				13,492 13,492	10,783 11,895	1,127 1,127
1/27/2014	TRUE	FALSE	FALSE	3.14	8.98	5.98	53%	35%	67%		1.50	5.7	5.9	248.00				12,369				13,490	11,918	1,145	12,369			13,462	11,895	1,145
1/28/2014	FALSE FALSE	FALSE FALSE	FALSE TRUE	3.18 3.21	8.84	5.91	54% 53%	36% 36%	67% 68%		1.50 1.47	5.7	5.9	242.00	221.00	0.91		11,928	10,893			13,392	11,772 11,772	1,145 1,145	11,928	10,893		13,366	11,752 11,752	1,145
1/29/2014 1/30/2014	FALSE	FALSE	TRUE	3.20	8.89 9.00	6.05 6.11	52%	36%	68%		1.47	5.7 5.7	5.9 6.0	259.00			25.21	13,198		1,285		13,392 13,515	11,772	1,143	13,198		1,285	13,366 13,489	11,752	1,145 1,173
1/31/2014	FALSE	FALSE	FALSE	3.20	8.95	6.14	52%	36%	69%		1.46	5.8	6.0	222.00	229.00	1.03		11,368	11,727			13,304	11,766	1,173	11,368	11,727		13,278	11,749	1,173
2/1/2014 2/2/2014	FALSE FALSE	FALSE FALSE	FALSE FALSE	3.09 3.11	9.74 10.28	6.03 5.94	51% 52%	32% 30%	62% 58%	AvgMax	1.62 1.73	5.8 5.8	6.0 6.0									13,304 13,387	11,766 11,766	1,173 1,161				13,278 13,359	11,749 11,749	1,173 1,161
2/3/2014	FALSE	FALSE	FALSE	3.15	9.13	6.06	52%	35%	66%	_	1.51	5.8	6.0	300.00				15,162				13,713	11,642	1,161	15,162			13,685	11,622	1,161
2/4/2014 2/5/2014	FALSE FALSE	FALSE FALSE	FALSE TRUE	3.15 3.20	9.10 9.55	6.04 6.13	52% 52%	35% 34%	66% 64%		1.51 1.56	5.8 5.9	6.0 6.1	232.00				11,687				13,586 13,586	11,642 11,642	1,161 1,161	11,687			13,560 13,560	11,622 11,622	1,161 1,161
2/6/2014	FALSE	FALSE	TRUE	3.27	9.22	6.19	53%	35%	67%		1.49	5.9	6.1	247.00			25.30	12,751		1,306		13,458	11,642	1,190	12,751		1,306	13,432	11,622	1,190
2/7/2014 2/8/2014	FALSE FALSE	FALSE FALSE	TRUE TRUE	3.24 3.67	9.37 12.57	6.46 7.85	50% 47%	35% 29%	69% 62%		1.45 1.60	5.9 6.0	6.2 6.4	274.00	229.00	0.84		14,762	12,338			13,309 13,309	11,729 11,729	1,190 1,190	14,762	12,338		13,283 13,283	11,712 11,712	1,190 1,190
2/9/2014	FALSE	FALSE	TRUE	4.32	12.48	8.38	52%	35%	67%		1.49	6.1	6.7									13,387	11,729	1,207				13,360	11,712	1,207
2/10/2014 2/11/2014	FALSE FALSE	FALSE FALSE	TRUE FALSE	6.61 3.68	14.02 11.17	9.86 7.65	67% 48%	47% 33%	70% 68%		1.42 1.46	6.2 6.3	7.1 7.3	194.00 168.00				15,953 10,719				13,633 13,451	11,435 11,435	1,207 1,207	15,953 10,719			13,606 13,425	11,415 11,415	1,207 1,207
2/12/2014	FALSE	FALSE	FALSE	3.49	10.39	7.05	50%	34%	68%		1.47	6.3	7.4	225.00				13,229				13,431	11,435	1,207	13,229			13,414	11,415	1,207
2/13/2014	FALSE	FALSE	FALSE	3.39	10.05	6.71 6.76	51%	34%	67%		1.50	6.3	7.5	201.00	231.00	0.77	22.82	16.070	12 022	1,277		13,438	11,435	1,221	16.070	12 022	1,277	13,414	11,415	1,221
2/14/2014 2/15/2014	FALSE FALSE	FALSE FALSE	FALSE FALSE	3.36 3.33	10.00 9.99	6.76 6.37	50% 52%	34% 33%	68% 64%		1.48 1.57	6.4 6.4	7.6 7.6	501.00	231.00	0.77		16,970	13,023			13,653 13,653	11,137 11,137	1,221 1,221	16,970	13,023		13,629 13,629	11,117 11,117	1,221 1,221
2/16/2014	FALSE	FALSE	FALSE	3.32	9.98	6.36	52%	33%	64%		1.57	6.4	7.4									13,682	11,137	1,271				13,656	11,117	1,271
2/17/2014 2/18/2014	FALSE FALSE	FALSE FALSE	FALSE FALSE	3.25 3.24	9.99 9.41	6.48 6.32	50% 51%	33% 34%	65% 67%		1.54 1.49	6.4 6.5	7.2 6.7	230.00	218.00	0.95		12,123	11,491			13,693 13,595	11,263 11,295	1,271 1,271	12,123	11,491		13,665 13,569	11,240 11,276	1,271 1,271
2/19/2014	FALSE	FALSE	FALSE	3.28	9.65	6.29	52%	34%	65%		1.53	6.5	6.5									13,595	11,295	1,271				13,569	11,276	1,271
2/20/2014 2/21/2014	FALSE FALSE	FALSE FALSE	FALSE FALSE	3.16 3.24	9.39 9.45	6.25 6.25	51% 52%	34% 34%	67% 66%		1.50 1.51	6.5 6.5	6.4 6.4	304.00			24.70 19.64	15,846		1,287 1,024		13,595 13,478	11,295 11,748	1,274 1,233	15,846		1,287 1,024	13,569 13,478	11,276 11,748	1,274 1,233
2/22/2014	FALSE	FALSE	FALSE	3.23	9.51	5.99	54%	34%	63%		1.59	6.5	6.3	-000			20.01	_5,540		_,~		13,478	11,748	1,233	_5,546		_,~	13,478	11,748	1,233
2/23/2014 2/24/2014	FALSE FALSE	FALSE FALSE	FALSE FALSE	3.20 3.20	9.40 9.20	5.94 6.09	54% 53%	34% 35%	63% 66%		1.58 1.51	6.5 6.5	6.2 6.2	228.00				11,580				13,401 13,310	11,748 11,894	1,236 1,236	11,580			13,401 13,310	11,748 11,894	1,236 1,236
2/25/2014	FALSE	FALSE	FALSE	3.20	9.30	6.10	52%	34%	66%		1.51	6.5	6.2	277.00	282.00	1.02		14,092	14,346			13,359	12,303	1,236	14,092	14,346		13,359	12,303	1,236
2/26/2014	FALSE	FALSE	TRUE	3.20	10.00	6.31	51%	32%	63%		1.58	6.5	6.2	272.00			10.25	15 404		1 007		13,359	12,303	1,236	15 404		1 007	13,359	12,303	1,236
2/27/2014	FALSE	FALSE	TRUE	3.50	9.90	6.83	51%	35%	69%		1.45	6.6	6.2	272.00			19.25	15,494		1,097		13,554	12,303	1,213	15,494		1,097	13,554	12,303	1,213

											Diurnal				Influent		Influent											30-d Avg	30-d Avg	30-d Avg
Date	Butte	CSU	Precip?	Min Influent	Max Influent	Avg Influent		Min % of		Flow Outlier	Peak	30-d Avg of Avg		Influent TSS Conc.,	BOD	BOD/TSS	NH3-N	Avg Inf TSS Load,	Avg Inf BOD Load,	Avg Inf NH3 Load,	Load Outlier	30-d Avg of TSS				non-SN BOD Load,		of non-SN	of non-SN	of non-SN
	Break?	Break?			d Flow, mgd	Flow, mgd	Avg	Max	Max	Туре	Factor (DPF)	Flow, mgd	mgd	mg/L	Conc., mg/L	Ratio	Conc., mg/L	ppd	ppd	ppd	Туре	Load, ppd		Load, ppd		ppd	ppd	TSS Load, ppd	BOD Load, ppd	NH3-N Load, ppd
2/28/2014	FALSE	FALSE	TRUE	3.45	10.18	7.12	48%	34%	70%		1.43	6.6	6.3	232.00	243.00	1.05		13,776	14,430			13,669	12,892	1,213	13,776	14,430		13,669	12,892	1,213
3/1/2014 3/2/2014	FALSE FALSE	FALSE FALSE	TRUE TRUE	3.84 3.57	11.34 10.86	7.57 6.98	51% 51%	34% 33%	67% 64%		1.50 1.56	6.7 6.7	6.5 6.6									13,669 13,701	12,892 12,892	1,213 1,198				13,669 13,701	12,892 12,892	1,213 1,198
3/3/2014	FALSE	FALSE	TRUE	3.46	12.84	7.73	45%	27%	60%		1.66	6.7	6.8	216.00				13,925				13,871	13,126	1,198	13,925			13,871	13,126	1,198
3/4/2014 3/5/2014	FALSE FALSE	FALSE FALSE	TRUE TRUE	5.69 4.10	12.66 11.72	9.29 8.28	61% 50%	45% 35%	73% 71%		1.36 1.42	6.8 6.9	7.2 7.5	192.00	139.00	0.72		13,259	9,599			13,871 13,833	13,126 12,538	1,198 1,198	13,259	9,599		13,871 13,833	13,126 12,538	1,198 1,198
3/6/2014	FALSE	FALSE	TRUE	4.81	12.20	8.68	55%	39%	71%		1.41	7.0	7.8	132.00	203.00	0.72			3,555			13,744	12,538	1,198	10,200	3,000		13,744	12,538	1,198
3/7/2014 3/8/2014	FALSE FALSE	FALSE FALSE	FALSE FALSE	3.90 3.71	11.11 10.93	7.81 7.24	50% 51%	35% 34%	70% 66%		1.42 1.51	7.0 7.1	7.9 7.9	195.00			16.03	12,701		1,044		13,812 13,812	12,538 12,538	1,173 1,173	12,701		1,044	13,812 13,812	12,538 12,538	1,173 1,173
3/9/2014	FALSE	FALSE	TRUE	3.51	10.93	7.24	50%	32%	65%		1.53	7.1	7.9									13,888	12,538	1,173				13,888	12,538	1,173
3/10/2014	FALSE	FALSE	TRUE	4.06	12.74	8.94	45%	32%	70%		1.43	7.2	8.1	209.00	465.00	0.70		15,583	44.004			13,946	12,578	1,146	15,583	44.004		13,946	12,578	1,146
3/11/2014 3/12/2014	FALSE FALSE	FALSE FALSE	FALSE FALSE	4.09 3.74	11.83 10.72	8.06 7.52	51% 50%	35% 35%	68% 70%		1.47 1.43	7.2 7.2	8.2 7.9	237.00	165.00	0.70		15,931	11,091			14,079 14,079	12,330 12,330	1,146 1,146	15,931	11,091		14,079 14,079	12,330 12,330	1,146 1,146
3/13/2014	FALSE	FALSE	FALSE	3.53	10.43	7.18	49%	34%	69%		1.45	7.1	7.8	192.00			15.97	11,497		956		13,782	12,330	1,114	11,497		956	13,782	12,330	1,114
3/14/2014 3/15/2014	TRUE TRUE	TRUE TRUE	FALSE FALSE	3.57 3.38	9.77 9.48	6.82 6.21	52% 54%	37% 36%	70% 66%		1.43 1.53	7.0 7.0	7.6 7.4	220.00	177.00	0.80		12,513	10,068			13,901 13,949	12,007 12,007	1,114 1,114	12,513	10,068		13,901 13,949	12,007 12,007	1,114 1,114
3/16/2014	TRUE	TRUE	FALSE	3.36	9.09	5.93	57%	37%	65%		1.53	7.0	7.2									13,949	12,007	1,082				13,949	12,007	1,082
3/17/2014	TRUE	TRUE	FALSE	2.20	9.19	6.04	F.C0/	200/		inAvgMinM	1.52	7.0	7.2	245.00	106.00	0.00	19.91	12,342	0.570	1,003		13,619	11,837	1,069	12,342	0.570	1,003	13,619	11,837	1,069
3/18/2014 3/19/2014	TRUE TRUE	TRUE TRUE	FALSE FALSE	3.29 3.34	8.55 8.33	5.86 5.78	56% 58%	38% 40%	69% 69%		1.46 1.44	7.0 7.0	6.8 6.5	222.00	196.00	0.88		10,850	9,579			13,434 13,434	11,515 11,515	1,069 1,069	10,850	9,579		13,434 13,434	11,515 11,515	1,069 1,069
3/20/2014	TRUE	TRUE	FALSE	3.32	8.23	5.74	58%	40%	70%		1.43	6.9	6.2	243.00				11,633				13,322	11,515	1,069	11,633			13,322	11,515	1,069
3/21/2014 3/22/2014	TRUE TRUE	TRUE TRUE	FALSE FALSE	3.30 3.24	8.56 8.76	5.75 5.64	57% 57%	39% 37%	67% 64%		1.49 1.55	6.9 6.9	6.0 5.8	237.00				11,365				13,274 13,274	11,519 11,519	1,069 1,069	11,365			13,274 13,274	11,519 11,519	1,069 1,069
3/23/2014	TRUE	TRUE	FALSE	3.20	9.02	5.81	55%	35%	64%		1.55	6.9	5.8									13,274	11,519	1,025				13,274	11,519	1,025
3/24/2014	TRUE	TRUE	FALSE	3.28	9.31	6.13	54%	35%	66%		1.52	6.9	5.8	204.00	247.00	0.02	24.04	10,429	11 502	4 224		12,936	11,519	1,025	10,429	11 502	4 224	12,936	11,519	1,025
3/25/2014 3/26/2014	TRUE FALSE	FALSE FALSE	TRUE TRUE	3.28 3.37	9.41 9.70	6.40 6.75	51% 50%	35% 35%	68% 70%		1.47 1.44	6.9 6.9	5.9 6.0	262.00	217.00	0.83	24.81	13,985	11,583	1,324		12,997 12,997	11,528 11,528	1,085 1,085	13,985	11,583	1,324	12,997 12,997	11,528 11,528	1,085 1,085
3/27/2014	FALSE	FALSE	FALSE	3.46	9.89	6.84	51%	35%	69%		1.45	6.9	6.1	257.00				14,661				13,179	11,528	1,085	14,661			13,179	11,528	1,085
3/28/2014 3/29/2014	FALSE FALSE	FALSE FALSE	TRUE TRUE	3.43 3.44	9.58 11.29	6.72 7.18	51% 48%	36% 30%	70% 64%		1.43 1.57	7.0 7.0	6.3 6.4	223.00	205.00	0.92		12,498	11,489			13,085 13,085	11,120 11,120	1,085 1,085	12,498	11,489		13,085 13,085	11,120 11,120	1,085 1,085
3/30/2014	FALSE	FALSE	TRUE	4.11	11.73	7.94	52%	35%	68%		1.48	7.0	6.7									12,934	11,120	1,082				12,934	11,120	1,082
3/31/2014	FALSE	FALSE	TRUE	3.67	10.53	7.68	48%	35%	73%		1.37	7.1	7.0	223.00	102.00	0.07		14,283	11 500			12,966	10,568	1,082	14,283	11 500		12,966	10,568	1,082
4/1/2014 4/2/2014	FALSE FALSE	FALSE FALSE	TRUE FALSE	3.58 3.64	10.62 11.04	7.62 7.37	47% 49%	34% 33%	72% 67%		1.39 1.50	7.1 7.1	7.1 7.3	209.00	182.00	0.87		13,282	11,566			12,985 12,985	10,711 10,711	1,082 1,082	13,282	11,566		12,985 12,985	10,711 10,711	1,082 1,082
4/3/2014	FALSE	FALSE	FALSE	3.51	10.38	7.19	49%	34%	69%		1.44	7.0	7.3	92.00			23.33	5,517		1,399		12,490	10,711	1,145	5,517		1,399	12,490	10,711	1,145
4/4/2014 4/5/2014	FALSE FALSE	FALSE FALSE	TRUE FALSE	3.54 3.42	9.89 10.25	6.94 6.64	51% 52%	36% 33%	70% 65%		1.43 1.54	7.0 6.9	7.3 7.3	219.00	176.00	0.80		12,676	10,187			12,500 12,456	10,645 10,795	1,145 1,145	12,676	10,187		12,500 12,456	10,645 10,795	1,145 1,145
4/6/2014	FALSE	FALSE	FALSE	3.37	10.21	6.55	51%	33%	64%		1.56	6.8	7.2									12,456	10,795	1,145				12,456	10,795	1,145
4/7/2014 4/8/2014	FALSE	FALSE	FALSE	3.39	9.59	6.47	52%	35%	67%		1.48	6.8	7.1	214.00	102.00	1 01		11,547	10 221			12,388	10,795	1,171	11,547	10 221		12,388	10,795	1,171
4/8/2014	FALSE FALSE	FALSE FALSE	FALSE FALSE	3.38 3.36	9.48 9.63	6.35 6.30	53% 53%	36% 35%	67% 65%		1.49 1.53	6.8 6.7	6.9 6.7	191.00	193.00	1.01		10,115	10,221			12,262 12,262	10,723 10,723	1,171 1,171	10,115	10,221		12,262 12,262	10,723 10,723	1,171 1,171
4/10/2014	FALSE	FALSE	FALSE	3.40	9.40	6.33	54%	36%	67%		1.48	6.7	6.6	196.00	400		21.81	10,347	0.00	1,151		11,971	10,723	1,167	10,347		1,151	11,971	10,723	1,167
4/11/2014 4/12/2014	FALSE FALSE	FALSE FALSE	FALSE FALSE	3.38 3.34	9.26 9.40	6.31 6.12	54% 55%	37% 36%	68% 65%		1.47 1.54	6.6 6.6	6.5 6.4	189.00	188.00	0.99		9,946	9,894			11,638 11,638	10,573 10,573	1,167 1,167	9,946	9,894		11,638 11,638	10,573 10,573	1,167 1,167
4/13/2014	FALSE	FALSE	FALSE	3.30	9.59	6.09	54%	34%	64%		1.57	6.5	6.3									11,646	10,573	1,219				11,646	10,573	1,219
4/14/2014 4/15/2014	FALSE FALSE	FALSE FALSE	FALSE FALSE	3.35 3.30	9.27 9.13	6.18 6.07	54% 54%	36% 36%	67% 66%		1.50 1.50	6.5 6.5	6.3 6.2	202.00 232.00				10,411 11,745				11,523 11,535	10,645 10,645	1,219 1,219	10,411 11,745			11,523 11,535	10,645 10,645	1,219 1,219
4/15/2014	FALSE	FALSE	FALSE	3.31	9.13	6.13	54%	36%	66%		1.50	6.5	6.2	232.00				11,743				11,535	10,645	1,219	11,743			11,535	10,645 10,645	1,219
4/17/2014	FALSE	FALSE	FALSE	3.33	9.16	6.21	54%	36%	68%		1.48	6.5	6.2	325.00	252.22	0.00	22.43	16,832	12.055	1,162		11,785	10,645	1,259	16,832	12.055	1,162	11,785	10,645	1,259
4/18/2014 4/19/2014	FALSE FALSE	FALSE FALSE	FALSE FALSE	3.28 3.27	9.52 9.43	6.12 5.81	54% 56%	34% 35%	64% 62%		1.56 1.62	6.5 6.5	6.2	302.00	252.00	0.83		15,414	12,862			12,038 12,038	11,115 11,115	1,259 1,259	15,414	12,862		12,038 12,038	11,115 11,115	1,259 1,259
4/20/2014	FALSE	FALSE	FALSE	3.26	9.12	5.56	59%	36%	61%		1.64	6.5	6.0									12,062	11,115	1,259				12,062	11,115	1,259
4/21/2014 4/22/2014	FALSE FALSE	FALSE FALSE	FALSE FALSE	3.31 3.20	9.17 9.28	6.16 6.07	54% 53%	36% 34%	67% 65%		1.49 1.53	6.5 6.5	6.0 6.0	256.00 276.00	242.00	0.88	24.00	13,152 13,972	12,251	1,215		12,167 12,267	11,115 11,257	1,259 1,250	13,152 13,972	12,251	1,215	12,167 12,267	11,115 11,257	1,259 1,250
4/23/2014	FALSE	FALSE	FALSE	3.23	9.35	6.13	53%	35%	66%		1.53	6.5	6.0	270.00	2-72.00	0.06	24.00	13,372	12,231	1,413		12,267	11,257	1,250	13,372	12,231	1,213	12,267	11,257	1,250
4/24/2014	FALSE	FALSE	FALSE	3.23	9.26	6.13	53%	35%	66%		1.51	6.5	6.0	254.00	242.22	0.0=		12,986	14.555			12,409	11,257	1,250	12,986	14.600		12,409	11,257	1,250
4/25/2014 4/26/2014	FALSE FALSE	FALSE FALSE	TRUE FALSE	3.26 3.29	9.94 9.87	6.58 6.30	50% 52%	33% 33%	66% 64%		1.51 1.57	6.5 6.5	6.1 6.1	245.00	213.00	0.87		13,445	11,689			12,379 12,379	11,270 11,270	1,232 1,232	13,445	11,689		12,379 12,379	11,270 11,270	1,232 1,232
4/27/2014	FALSE	FALSE	FALSE	3.22	9.82	6.18	52%	33%	63%		1.59	6.5	6.1									12,245	11,270	1,232				12,245	11,270	1,232
4/28/2014 4/29/2014	FALSE FALSE	FALSE FALSE	FALSE FALSE	3.25 3.26	9.31 9.23	6.19 6.16	53% 53%	35% 35%	66% 67%		1.50 1.50	6.5 6.4	6.2 6.2	234.00 224.00	211.00	0.94		12,080 11,508	10,840			12,221 12,181	11,239 11,189	1,232 1,232	12,080 11,508	10,840		12,221 12,181	11,239	1,232 1,232
4/29/2014	FALSE	FALSE	FALSE	3.26	9.23	6.13	52%	35%	66%		1.53	6.4	6.2	224.00	211.00	0.54		11,300	10,040			12,181	11,189	1,232	11,500	10,040		12,181	11,189 11,189	1,232
5/1/2014	FALSE	FALSE	FALSE	3.28	9.15	6.04	54%	36%	66%		1.51	6.3	6.2	288.00			25.27	14,508		1,273			11,189	1,240	14,508		1,273	12,194	11,189	1,240

				Min	May	Δνα				Flow	Diurnal	30-d Avg	7 d Avg of	Influent	Influent		Influent	Ava Inf	Ava Inf	Avalnf	Load	20 d Ava	20 d Ava	30-d Avg	non SN	non SN	non SN	30-d Avg	30-d Avg	30-d Avg
Date	Butte Break?	CSU Break?	Precip?	Min Influent	Max Influent	Avg Influent		Min % of Max	Avg % of Max	Flow Outlier	Peak Factor			TSS Conc.,	BOD Conc.,	BOD/TSS Ratio	NH3-N Conc.,	Avg Inf TSS Load,	Avg Inf BOD Load,	Avg Inf NH3 Load,	Load Outlier	of TSS		of NH3-N					of non-SN BOD Load,	of non-SN NH3-N
	Dieak:	Dieak:		Flow, mg	d Flow, mgd	Flow, mgd	Avg	IVIGA	IVIGA	Туре	(DPF)	Flow, mgd	mgd	mg/L	mg/L	Natio	mg/L	ppd	ppd	ppd	Туре	Load, ppd	Load, ppd	Load, ppd	ppd	ppd	ppd	ppd	ppd	Load, ppd
5/2/2014	FALSE FALSE	FALSE	FALSE FALSE	3.30	9.22	6.04	55% EE%	36%	66%		1.53	6.3 6.2	6.2	269.00	213.00	0.79		13,550	10,730			12,208	11,084	1,240	13,550	10,730		12,208	11,084	1,240
5/3/2014 5/4/2014	FALSE	FALSE FALSE	FALSE	3.29 3.38	9.27 9.63	6.03 6.15	55% 55%	35% 35%	65% 64%		1.54 1.57	6.2	6.1 6.1									12,208 12,602	11,084 11,084	1,240 1,200				12,208 12,602	11,084 11,084	1,240 1,200
5/5/2014	FALSE	FALSE	FALSE	3.58	9.32	6.36	56%	38%	68%		1.47	6.2	6.1	170.00				9,017				12,387	11,212	1,200	9,017			12,387	11,212	1,200
5/6/2014 5/7/2014	FALSE FALSE	FALSE FALSE	FALSE FALSE	3.61 3.50	9.28 9.38	6.21 6.21	58% 56%	39% 37%	67% 66%		1.49 1.51	6.2 6.2	6.1 6.1	570.00	270.00	0.47		29,521	13,984		TSS	12,387 12,387	11,559 11,559	1,200 1,200	29,521	13,984		12,387 12,387	11,559 11,559	1,200 1,200
5/8/2014	FALSE	FALSE	FALSE	3.57	9.36	6.31	57%	38%	67%		1.48	6.2	6.2	236.00			24.95	12,420		1,313		12,438	11,559	1,223	12,420		1,313	12,438	11,559	1,223
5/9/2014 5/10/2014	FALSE FALSE	FALSE FALSE	FALSE FALSE	3.56 3.52	9.07 9.51	6.25 6.04	57% 58%	39% 37%	69% 64%		1.45 1.57	6.2 6.1	6.2 6.2	272.00	212.00	0.78		14,178	11,051			12,677 12,677	11,662 11,662	1,223 1,223	14,178	11,051		12,677 12,677	11,662 11,662	1,223 1,223
5/11/2014	FALSE	FALSE	FALSE	3.48	9.47	5.94	59%	37%	63%		1.59	6.1	6.2									12,823	11,662	1,241				12,823	11,662	1,241
5/12/2014 5/13/2014	FALSE FALSE	FALSE FALSE	FALSE FALSE	3.60 3.51	9.19 8.91	6.14 6.12	59% 57%	39% 39%	67% 69%		1.50 1.46	6.1 6.1	6.2 6.2	257.00 301.00	176.00	0.58		13,160 15,363	8,983			13,024 13,161	11,915 11,549	1,241 1,241	13,160 15,363	8,983		13,024 13,161	11,915 11,549	1,241 1,241
5/13/2014	FALSE	FALSE	FALSE	3.56	9.14	6.17	58%	39%	68%		1.48	6.1	6.1	301.00	176.00	0.56		15,505	0,303			13,161	11,549	1,241	15,505	0,303		13,161	11,549	1,241
5/15/2014	FALSE	FALSE	FALSE	3.59	9.39	6.18	58%	38%	66%		1.52	6.1	6.1	296.00	184.00	0.62	25.46	15,256	9,484	4 205		13,446	11,319	1,241	15,256	9,484	4 205	13,446	11,319	1,241
5/16/2014 5/17/2014	FALSE FALSE	FALSE FALSE	FALSE FALSE	3.64 3.61	9.17 8.82	6.22 6.01	59% 60%	40% 41%	68% 68%		1.47 1.47	6.1 6.1	6.1 6.1	246.00			25.16	12,761		1,305		13,506 13,506	11,319 11,319	1,254 1,254	12,761		1,305	13,506 13,506	11,319 11,319	1,254 1,254
5/18/2014	FALSE	TRUE	FALSE	3.49	8.88	5.93	59%	39%	67%		1.50	6.1	6.1									13,298	11,319	1,277				13,298	11,319	1,277
5/19/2014 5/20/2014	FALSE FALSE	TRUE TRUE	TRUE TRUE	3.55 3.56	8.52 8.46	6.04 5.97	59% 60%	42% 42%	71% 71%		1.41 1.42	6.1 6.1	6.1 6.1	195.00 152.00				9,823 7,568				12,949 12,632	11,126 11,126	1,277 1,277	9,823 7,568			12,949 12,632	11,126 11,126	1,277 1,277
5/20/2014	FALSE	TRUE	FALSE	3.59	8.57	6.04	59%	42%	70%		1.42	6.1	6.1	132.00				7,506				12,632	11,126	1,277	7,506			12,632	11,126	1,277
5/22/2014	FALSE	TRUE	FALSE	3.57	8.41	5.98	60%	42%	71%		1.41	6.1	6.0	150.00	105.00	0.74	21.22	7,481		1,058		12,299	11,126	1,233	7,481		1,058	12,299	11,126	1,233
5/23/2014 5/24/2014	FALSE FALSE	TRUE TRUE	FALSE FALSE	3.63 3.63	8.59 8.45	5.98 5.55	61% 65%	42% 43%	70% 66%		1.44 1.52	6.1 6.1	6.0 5.9	262.00	185.00	0.71		13,067	9,227			12,245 12,245	10,748 10,748	1,237 1,237	13,067	9,227		12,245 12,245	10,748 10,748	1,237 1,237
5/25/2014	FALSE	TRUE	FALSE	3.35	8.10	5.31	63%	41%	66%		1.53	6.1	5.9									12,199	10,748	1,237				12,199	10,748	1,237
5/26/2014	FALSE FALSE	TRUE TRUE	FALSE FALSE	3.60 3.51	8.58 7.93	5.60 5.75	64% 61%	42% 44%	65% 73%		1.53 1.38	6.1 6.0	5.8 5.8	255.00				12,229				12,116 12,123	10,614 10,614	1,237 1,237	12,229			12,116 12,123	10,614 10,614	1,237 1,237
5/27/2014 5/28/2014	FALSE	TRUE	FALSE	3.54	8.34	5.84	61%	44%	70%		1.43	6.0	5.8	255.00				12,229				12,123	10,614	1,237	12,229			12,123	10,614	1,237
5/29/2014	FALSE	TRUE	FALSE	3.52	8.03	5.75	61%	44%	72%		1.40	6.0	5.7	342.00	245.00		23.53	16,401		1,128		12,393	10,614	1,216	16,401	10.010	1,128	12,393	10,614	1,216
5/30/2014 5/31/2014	TRUE TRUE	TRUE TRUE	FALSE FALSE	3.56 3.53	8.39 8.45	5.77 5.53	62% 64%	42% 42%	69% 65%		1.45 1.53	6.0 6.0	5.7 5.6	255.00	215.00	0.84		12,271	10,346			12,441 12,441	10,543 10,543	1,216 1,216	12,271	10,346		12,441 12,441	10,543 10,543	1,216 1,216
6/1/2014	TRUE	TRUE	FALSE	3.48	8.51	5.53	63%	41%	65%		1.54	6.0	5.6									12,303	10,543	1,201				12,303	10,543	1,201
6/2/2014 6/3/2014	TRUE TRUE	TRUE TRUE	FALSE FALSE	3.53 3.48	8.17 8.10	5.80 5.75	61% 61%	43% 43%	71% 71%		1.41 1.41	6.0 5.9	5.7 5.7	194.00 175.00	171.00	0.98		9,384 8,392	8,200			12,025 11,798	10,512 10,182	1,201 1,201	9,384 8,392	8,200		12,025 11,798	10,512 10,182	1,201 1,201
6/4/2014	TRUE	TRUE	FALSE	3.52	8.15	5.77	61%	43%	71%		1.41	5.9	5.7	173.00	171.00	0.36		0,332	8,200			11,798	10,182	1,201	0,332	8,200		11,798	10,182	1,201
6/5/2014	TRUE	TRUE	FALSE	3.54	7.87	5.80	61%	45%	74%		1.36	5.9	5.7	195.00	477.00	0.50	24.66	9,433	0.244	1,193		11,824	10,182	1,200	9,433	0.244	1,193	11,824	10,182	1,200
6/6/2014 6/7/2014	TRUE TRUE	TRUE TRUE	FALSE FALSE	3.50 3.45	7.70 7.95	5.63 5.41	62% 64%	45% 43%	73% 68%		1.37 1.47	5.9 5.9	5.7 5.7	296.00	177.00	0.60		13,898	8,311			11,946 11,946	9,372 9,372	1,200 1,200	13,898	8,311		11,946 11,946	9,372 9,372	1,200 1,200
6/8/2014	TRUE	TRUE	FALSE	3.41	7.60	5.33	64%	45%	70%		1.43	5.8	5.6									11,917	9,372	1,171				11,917	9,372	1,171
6/9/2014 6/10/2014	TRUE TRUE	TRUE TRUE	FALSE FALSE	3.47 3.43	7.57 7.61	5.57 5.57	62% 62%	46% 45%	74% 73%		1.36 1.37	5.8 5.8	5.6 5.6	248.00 225.00	215.00	0.96		11,521 10,452	9,988			11,750 11,674	9,092 9,220	1,171 1,171	11,521 10,452	9,988		11,750 11,674	9,092 9,220	1,171 1,171
6/11/2014	TRUE	TRUE	FALSE	3.45	7.76	5.70	61%	44%	73%		1.36	5.8	5.6	223.00	213.00	0.90		10,432	3,366			11,674	9,220	1,171	10,432	3,366		11,674	9,220	1,171
6/12/2014	TRUE	TRUE	FALSE	3.46	7.73	5.68	61%	45%	73%	A	1.36	5.8	5.6	206.00	474.00	0.55	21.98	9,758	0.455	1,041		11,474	9,220	1,145	9,758	0.455	1,041	11,474	9,220	1,145
6/13/2014 6/14/2014	TRUE TRUE	TRUE TRUE	FALSE FALSE	3.47 3.47	13.73 8.21	5.62 5.40	62% 64%	25% 42%	41% 66%	AvgMax	2.44 1.52	5.8 5.7	5.6 5.5	265.00	174.00	0.66		12,421	8,156			11,301 11,301	9,102 9,102	1,145 1,145	12,421	8,156		11,301 11,301	9,102 9,102	1,145 1,145
6/15/2014	TRUE	TRUE	FALSE	3.46	7.94	5.32	65%	44%	67%		1.49	5.7	5.5									11,054	9,038	1,145				11,054	9,038	1,145
6/16/2014 6/17/2014	TRUE TRUE	TRUE TRUE	FALSE FALSE	3.46 3.50	7.97 7.91	5.65 5.60	61% 63%	43% 44%	71% 71%		1.41 1.41	5.7 5.7	5.6 5.6	246.00 243.00	192.00	0.79		11,592 11,349	8,967			10,981 11,002	9,038 9,028	1,105 1,105	11,592 11,349	8,967		10,981 11,002	9,038 9,028	1,105 1,105
6/18/2014	TRUE	TRUE	FALSE	3.53	7.85	5.68	62%	45%	72%		1.38	5.7	5.6	243.00	192.00	0.75		11,343	6,307			11,002	9,028	1,105	11,343	0,307		11,002	9,028	1,105
6/19/2014	TRUE	TRUE	FALSE	3.58	8.07	5.69	63%	44%	71%		1.42	5.7	5.6	228.00	161.63	0.00	23.24	10,820	7.466	1,103		11,061	9,028	1,105	10,820	7.465	1,103	11,061	9,028	1,105
6/20/2014 6/21/2014	TRUE TRUE	TRUE TRUE	FALSE FALSE	3.54 3.52	7.69 7.95	5.56 5.41	64% 65%	46% 44%	72% 68%		1.38 1.47	5.7 5.6	5.6 5.5	195.00	161.00	0.83		9,042	7,466			11,148 11,148	8,832 8,832	1,105 1,105	9,042	7,466		11,148 11,148	8,832 8,832	1,105 1,105
6/22/2014	TRUE	TRUE	FALSE	3.44	8.04	5.35	64%	43%	67%		1.50	5.6	5.5									11,377	8,832	1,116				11,377	8,832	1,116
6/23/2014 6/24/2014	TRUE TRUE	TRUE TRUE	FALSE FALSE	3.50 3.46	7.75 7.68	5.53 5.51	63% 63%	45% 45%	71% 72%		1.40 1.39	5.6 5.6	5.6 5.5	217.00 238.00	190.00	0.80		10,008 10,937	8,731			11,186 11,171	8,776 8,771	1,116 1,116	10,008 10,887	8,706		11,186 11,168	8,776 8,767	1,116 1,116
6/25/2014	TRUE	TRUE	FALSE	3.48	7.81	5.67	61%	45% 45%	73%		1.39	5.6	5.6	230.00	190.00	0.80		10,537	0,731			11,171	8,771	1,116	10,007	3,700		11,168	8,767	1,116
6/26/2014	TRUE	TRUE	FALSE	3.50	7.90	5.68	62%	44%	72%		1.39	5.6	5.6	266.00	242.55	0.7.	24.40	12,601	44.45	1,156	 0.5	11,250	8,771	1,124	12,601		1,156	11,248	8,767	1,124
6/27/2014 6/28/2014	TRUE TRUE	TRUE TRUE	FALSE FALSE	3.52 3.50	8.03 7.84	5.63 5.47	63% 64%	44% 45%	70% 70%		1.43 1.43	5.6 5.6	5.5 5.5	452.00	243.00	0.54		21,223	11,410		TSS	11,193 11,193	9,064 9,064	1,124 1,124	21,223	11,410		11,190 11,190	9,061 9,061	1,124 1,124
6/29/2014	TRUE	TRUE	FALSE	3.51	8.15	5.38	65%	43%	66%		1.51	5.6	5.5									10,867	9,064	1,123				10,864	9,061	1,123
6/30/2014	TRUE TRUE	TRUE TRUE	FALSE FALSE	3.59 3.55	7.86 7.90	5.64	64% 63%	46% 45%	72% 72%		1.39	5.6 5.6	5.6 5.6	217.00				10,207				10,738	8,904 8,904	1,123 1,123	10,207			10,735	8,900	1,123 1,123
7/1/2014 7/2/2014	TRUE	TRUE	FALSE	3.56	7.90	5.68 5.65	63%	45%	72%		1.39 1.38	5.6	5.6	213.00	179.00	0.84		10,037	8,435			10,738 10,697	8,904	1,123	10,037	8,435		10,735 10,694	8,900 8,849	1,123
7/3/2014	TRUE	TRUE	FALSE	3.56	7.77	5.60	64%	46%	72%		1.39	5.6	5.6	250.00			25.25	11,676		1,179		10,832	8,851	1,134	11,676		1,179	10,829	8,849	1,134

				Min	May	Ava				Flow	Diurnal	20 d Ava	7 d Ava of	Influent	Influent		Influent	Ava Inf	Avalet	Avalof	Load	20 d Ava	20 d Ava	20 d Ava	non SN	non CN	non CN	30-d Avg	30-d Avg	30-d Avg
Date	Butte Break?	CSU Break?	Precip?	Min Influent	Max Influent	Avg Influent		Min % of		Flow Outlier	Peak		7-d Avg of Avg Flow,		BOD	BOD/TSS		Avg Inf TSS Load,	Avg Inf BOD Load,	Avg Inf NH3 Load,	Load Outlier	of TSS		30-d Avg of NH3-N					of non-SN	
	breakr	ьгеакт		Flow, mgd	d Flow, mgd	Flow, mgd	Avg	Max	Max	Туре	Factor (DPF)	Flow, mgd	mgd	mg/L	Conc., mg/L	Ratio	Conc., mg/L	ppd	ppd	ppd	Туре	Load, ppd	Load, ppd	Load, ppd	ppd	ppd	ppd	ppd	BOD Load, ppd	NH3-N Load, ppd
7/4/2014	TRUE	TRUE	FALSE	3.57	5.12	5.12	70%	70%		'gMinMaxA	1.00	5.6	5.6									10,984	8,933	1,134				10,981	8,930	1,134
7/5/2014 7/6/2014	TRUE TRUE	TRUE TRUE	FALSE FALSE	3.52 3.47	7.07 7.37	4.95 5.22	71% 66%	50% 47%	70% 71%	MinAvg	1.43 1.41	5.6 5.5	5.6 5.5									10,984 11,088	8,933 8,933	1,134 1,120				10,981 11,085	8,930 8,930	1,134 1,120
7/7/2014	TRUE	TRUE	FALSE	3.54	7.85	5.62	63%	45%	72%		1.40	5.5	5.6	160.00				7,499				10,661	9,022	1,120	7,499			10,658	9,018	1,120
7/8/2014 7/9/2014	TRUE TRUE	TRUE TRUE	FALSE FALSE	3.51 3.57	7.71 7.84	5.56 5.73	63% 62%	46% 46%	72% 73%		1.39 1.37	5.5 5.6	5.6 5.6	107.00				5,113				10,661 10,315	9,022 9,022	1,120 1,120	5,113			10,658 10,311	9,018 9,018	1,120 1,120
7/10/2014	TRUE	TRUE	FALSE	3.63	7.86	5.78	63%	46%	74%		1.36	5.6	5.6	313.00			20.97	15,088		1,011		10,538	9,022	1,098	15,088		1,011	10,534	9,018	1,098
7/11/2014	TRUE	TRUE	TRUE	3.55	8.08	5.68	63%	44%	70%		1.42	5.6	5.6	238.00	178.00	0.75		11,274	8,432			10,589	8,799	1,098	11,274	8,432		10,586	8,796	1,098
7/12/2014 7/13/2014	TRUE TRUE	TRUE TRUE	FALSE FALSE	3.51 3.44	7.97 7.85	5.39 5.36	65% 64%	44% 44%	68% 68%		1.48 1.46	5.6 5.6	5.6 5.5									10,589 10,644	8,799 8,799	1,098 1,112				10,586 10,641	8,796 8,796	1,098 1,112
7/14/2014	TRUE	TRUE	FALSE	3.58	7.67	5.57	64%	47%	73%		1.38	5.6	5.6	207.00				9,616				10,457	8,907	1,112	9,616			10,454	8,902	1,112
7/15/2014	TRUE	TRUE	FALSE	3.54	7.71	5.61	63%	46%	73%		1.37	5.6	5.6	243.00	192.00	0.79		11,369	8,983			10,514	8,918	1,112	11,369	8,983		10,511	8,914	1,112
7/16/2014 7/17/2014	TRUE TRUE	TRUE TRUE	FALSE FALSE	3.57 3.52	7.78 7.90	5.64 5.65	63% 62%	46% 45%	72% 72%		1.38 1.40	5.6 5.6	5.6 5.6	244.00			34.91	11,498		1,645		10,514 10,508	8,918 8,918	1,112 1,219	11,498		1,645	10,511 10,505	8,914 8,914	1,112 1,219
7/18/2014	TRUE	TRUE	FALSE	3.49	7.79	5.59	62%	45%	72%		1.39	5.6	5.6	271.00	283.00	1.04		12,634	13,194	•		10,589	9,521	1,219	12,634	13,194	•	10,586	9,518	1,219
7/19/2014 7/20/2014	TRUE TRUE	TRUE TRUE	FALSE FALSE	3.48 3.44	7.90 7.93	5.38 5.43	65% 63%	44% 43%	68% 68%		1.47 1.46	5.6 5.6	5.5 5.5									10,589 10,573	9,521 9,521	1,219 1,248				10,586 10,570	9,518 9,518	1,219 1,248
7/20/2014	TRUE	TRUE	FALSE	3.58	8.11	5.71	63%	44%	70%		1.40	5.6	5.6	238.00				11,334				10,373	9,864	1,248	11,334			10,370	9,860	1,248
7/22/2014	TRUE	TRUE	TRUE	3.51	7.82	5.63	62%	45%	72%		1.39	5.6	5.6	271.00	184.00	0.68		12,725	8,640			10,851	9,689	1,248	12,725	8,640		10,848	9,686	1,248
7/23/2014 7/24/2014	TRUE TRUE	TRUE TRUE	FALSE FALSE	3.48 3.55	7.71 7.71	5.65 5.56	62% 64%	45% 46%	73% 72%		1.36 1.39	5.6 5.6	5.6 5.6	222.00			23.24	10,294		1,078		10,851 10,869	9,689 9,689	1,248 1,214	10,294		1,078	10,848 10,866	9,686 9,686	1,248 1,214
7/25/2014	TRUE	TRUE	FALSE	3.56	7.75	5.48	65%	46%	71%		1.41	5.6	5.6	311.00			23.24	14,214		1,070		11,074	9,849	1,214	14,214		1,070	11,074	9,849	1,214
7/26/2014	TRUE	TRUE	FALSE	3.52	7.93	5.27	67%	44%	66%		1.50	5.6	5.5									11,074	9,849	1,214				11,074	9,849	1,214
7/27/2014 7/28/2014	TRUE TRUE	TRUE TRUE	FALSE FALSE	3.42 3.58	7.80 7.86	5.34 5.62	64% 64%	44% 46%	68% 72%		1.46 1.40	5.5 5.5	5.5 5.5	285.00				13,358				10,972 11,121	9,849 9,537	1,228 1,228	13,358			10,972 11,121	9,849 9,537	1,228 1,228
7/29/2014	TRUE	TRUE	FALSE	3.52	7.60	5.52	64%	46%	73%		1.38	5.5	5.5	233.00	172.00	0.74		10,727	7,918			11,098	9,267	1,228	10,727	7,918		11,098	9,267	1,228
7/30/2014	TRUE	TRUE	FALSE	3.51	7.76	5.57	63%	45%	72%		1.39	5.6	5.5	242.00								11,098	9,267	1,228				11,098	9,267	1,228
7/31/2014 8/1/2014	TRUE TRUE	TRUE TRUE	FALSE FALSE	3.56 3.61	7.85 7.78	5.65 5.62	63% 64%	45% 46%	72% 72%		1.39 1.38	5.6 5.6	5.5 5.5	242.00 267.00	176.00	0.66	24.09	11,403 12,515	8,249	1,135		11,168 11,243	9,267 9,122	1,210 1,210	11,403 12,515	8,249	1,135	11,168 11,243	9,267 9,122	1,210 1,210
8/2/2014	TRUE	TRUE	FALSE	3.53	7.50	5.31	66%	47%	71%		1.41	5.5	5.5					,	-, -			11,314	9,236	1,210	,	-, -		11,314	9,236	1,210
8/3/2014 8/4/2014	TRUE TRUE	TRUE TRUE	FALSE TRUE	3.49 2.04	7.78	5.40 5.45	65% 37%	45% 27%	69%	MinAvg	1.44	5.5 5.5	5.5 5.5	220.00				10,000				11,291	9,236	1,217 1,217	10,000			11,291 11,215	9,236 9,236	1,217
8/5/2014	TRUE	TRUE	TRUE	3.17	7.53 8.33	5.77	55%	38%	72% 69%	IVIIIIAVg	1.38 1.44	5.5	5.5	231.00	163.00	0.71		11,116	7,844			11,215 11,210	9,236 9,037	1,217	11,116	7,844		11,213	9,230	1,217 1,217
8/6/2014	TRUE	TRUE	FALSE	3.20	8.33	5.80	55%	38%	70%		1.44	5.6	5.6									11,210	9,037	1,217				11,210	9,037	1,217
8/7/2014 8/8/2014	TRUE TRUE	TRUE TRUE	FALSE FALSE	3.27 3.19	8.39 7.75	5.71 5.43	57% 59%	39% 41%	68% 70%		1.47 1.43	5.6 5.6	5.6 5.6	236.00 230.00	177.00	0.77	20.92	11,239 10,416	8,016	996		11,418 11,365	9,037 8,909	1,173 1,173	11,239 10,416	8,016	996	11,418 11,365	9,037 8,909	1,173 1,173
8/9/2014	TRUE	TRUE	FALSE	3.17	7.73	5.19	61%	40%	66%		1.51	5.5	5.5	230.00	177.00	0.77		10,410	8,010			11,712	8,909	1,173	10,410	8,010		11,712	8,909	1,173
8/10/2014	TRUE	TRUE	FALSE	3.10	7.92	5.26	59%	39%	66%		1.51	5.5	5.5									11,514	8,909	1,214				11,514	8,909	1,214
8/11/2014 8/12/2014	TRUE TRUE	TRUE TRUE	FALSE FALSE	3.16 3.17	8.29 7.77	5.54 5.52	57% 57%	38% 41%	67% 71%		1.50 1.41	5.5 5.5	5.5 5.5	221.00 170.00	150.00	0.88		10,211 7,826	6,906			11,451 11,250	8,978 8,719	1,214 1,214	10,211 7,826	6,906		11,451 11,250	8,978 8,719	1,214 1,214
8/13/2014	TRUE	TRUE	FALSE	3.16	7.67	5.54	57%	41%	72%		1.38	5.5	5.5	170.00	130.00	0.88		7,820	0,500			11,250	8,719	1,214	7,020	0,500		11,250	8,719	1,214
8/14/2014	TRUE	TRUE	FALSE	3.18	7.80	5.58	57%	41%	72%		1.40	5.5	5.5	191.00			23.24	8,889		1,082		11,209	8,719	1,187	8,889		1,082	11,209	8,719	1,187
8/15/2014 8/16/2014	TRUE TRUE	TRUE TRUE	FALSE FALSE	3.24 3.20	7.81 8.07	5.54 5.34	58% 60%	41% 40%	71% 66%		1.41 1.51	5.5 5.5	5.5 5.4	291.00				13,445				11,325 11,325	8,681 8,681	1,187 1,187	13,445			11,325 11,325	8,681 8,681	1,187 1,187
8/17/2014	TRUE	TRUE	FALSE	3.14	8.44	5.46	58%	37%	65%		1.55	5.5	5.5									11,314	8,681	1,073				11,314	8,681	1,073
8/18/2014	TRUE	TRUE	FALSE	3.22	8.18	5.72	56%	39%	70%		1.43	5.5	5.5	238.00	164.60	0.70		11,354	7.453			11,239	7,929	1,073	11,354	7.450		11,239	7,929	1,073
8/19/2014 8/20/2014	TRUE TRUE	TRUE TRUE	FALSE FALSE	3.18 3.14	8.27 8.41	5.55 5.83	57% 54%	38% 37%	67% 69%		1.49 1.44	5.5 5.5	5.5 5.6	207.00	161.00	0.78		9,581	7,452			11,147 11,147	7,861 7,861	1,073 1,073	9,581	7,452		11,147 11,147	7,861 7,861	1,073 1,073
8/21/2014	TRUE	TRUE	FALSE	3.14	8.49	5.90	53%	37%	69%		1.44	5.5	5.6	332.00			26.11	16,336		1,285		11,425	7,861	1,115	16,336		1,285	11,425	7,861	1,115
8/22/2014	TRUE	TRUE	FALSE	3.16	8.33	5.87	54%	38%	70%		1.42	5.6	5.7	281.00	226.00	0.80		13,757	11,064			11,482	8,207	1,115	13,757	11,064		11,482	8,207	1,115
8/23/2014 8/24/2014	TRUE TRUE	TRUE TRUE	FALSE FALSE	3.18 3.10	8.93 9.14	5.85 5.87	54% 53%	36% 34%	66% 64%		1.53 1.56	5.6 5.6	5.7 5.8									11,482 11,552	8,207 8,207	1,115 1,124				11,482 11,552	8,207 8,207	1,115 1,124
8/25/2014	TRUE	TRUE	FALSE	3.13	9.42	6.11	51%	33%	65%		1.54	5.6	5.8	182.00				9,274				11,262	8,207	1,124	9,274			11,262	8,207	1,124
8/26/2014	FALSE	FALSE	FALSE	3.13	8.96	5.97	52%	35%	67%		1.50	5.6	5.9	269.00	195.00	0.72		13,393	9,709			11,380	8,395	1,124	13,393	9,709		11,380	8,395	1,124
8/27/2014 8/28/2014	FALSE FALSE	FALSE FALSE	FALSE FALSE	3.19 3.25	9.03 8.97	5.97 6.01	53% 54%	35% 36%	66% 67%		1.51 1.49	5.6 5.6	5.9 5.9	223.00			23.45	11,178		1,175		11,380 11,259	8,395 8,395	1,124 1,135	11,178		1,175	11,380 11,259	8,395 8,395	1,124 1,135
8/29/2014	FALSE	FALSE	FALSE	3.19	8.67	6.09	52%	37%	70%		1.42	5.7	6.0	243.00	179.00	0.74		12,342	9,092	·		11,349	8,541	1,135		9,092	•	11,349	8,541	1,135
8/30/2014 8/31/2014	FALSE	FALSE	FALSE	3.17	9.04	5.67	56% 57%	35% 37%	63%		1.59	5.7 5.7	5.9									11,349	8,541 8 5/11	1,135				11,349	8,541 8 5/11	1,135
9/1/2014	FALSE FALSE	FALSE FALSE	FALSE FALSE	3.16 3.20	8.53 9.26	5.50 5.85	57% 55%	37% 35%	64% 63%		1.55 1.58	5.7 5.7	5.9 5.9									11,345 11,272	8,541 8,583	1,134 1,134				11,345 11,272	8,541 8,583	1,134 1,134
9/2/2014	FALSE	FALSE	FALSE	3.14	8.55	5.94	53%	37%	69%		1.44	5.7	5.9	255.00				12,633				11,352	8,583	1,134	12,633			11,352	8,583	1,134
9/3/2014	FALSE	FALSE	FALSE	3.24	8.99	5.96 5.97	54%	36%	66%		1.51	5.7	5.9	250.00			22 AE	12 906		1 160		11,352	8,583	1,134	12 906		1 160	11,352	8,583	1,134
9/4/2014	FALSE	FALSE	FALSE	3.17	8.84	5.97	53%	36%	68%		1.48	5.7	5.9	259.00			23.45	12,896		1,168		11,523	8,583	1,141	12,896		1,168	11,523	8,583	1,141

Part											r!	Diurnal	22.14			Influent		Influent					20.14	20.14	20.14		CNI		30-d Avg	30-d Avg	30-d Avg
Part	Date			Precip?	Min Influent	Max Influent	Avg Influent				Flow Outlier	Peak				BOD		NH3-N	Avg Inf TSS Load,	Avg Inf BOD Load,	Avg Inf NH3 Load,	Load Outlier							of non-SN	of non-SN	of non-SN
Section Sect		DIEdK!	DIEdKI		Flow, mg	d Flow, mgd	l Flow, mgd	Avg	IVIdX	IVIdX	Туре		Flow, mgd	mgd	mg/L		Natio		ppd	ppd	ppd	Туре	Load, ppd	Load, ppd	Load, ppd	ppd	ppd	ppd			
															246.00	190.00	0.77		12,371	9,555				•		12,371	9,555				
Professor Prof																							-		•				•	•	•
																		23.98	•		1,202		-			•		1,202	•	•	•
															247.00				12,319					•		12,319					•
Mart																									•					•	•
Section Sect															264.00	170.00	0.64		13,034	8,393			•	•	•	13,034	8,393			•	•
State Stat																															
**************************************															238.00	169.00	0.71		11,612	8,245				•	•	11,386	8,201				
															265.00			24.65	13,238		1,231				•	13,238		1,231			
															231.00	164.00	0.71		11,521	8,179						11,521	8,179				
																							-	•	•				•		•
SAMPANIS	9/22/2014			FALSE	3.17	8.99	6.03					1.49							•				12,039	8,862	•	•			12,024	8,855	1,194
PASPORAD FRASE F															226.00	186.00	0.82		11,158	9,183				•		11,158	9,183				•
9/79/7004 14.5															285.00			27.91	15,022		1,471				•	15,022		1,471	•	•	•
9.4379.349 Fig. Fig															227.00	178.00	0.78		11,605	9,100						11,605	9,100			•	•
9.200.7010																															
														6.0											•						
19/10/10/10/10/10/10/10/10/10/10/10/10/10/															236.00	193.00	0.82		11,849	9,690				•	•	11,849	9,690		•	•	
19/19/19/19/19/19/19/19/19/19/19/19/19/1					3.12			3370	3470		'gMinMaxA'				271.00			24.95	13,267		1,221					13,267		1,221			
10/10/10/10/10/10/10/10/10/10/10/10/10/1								500/	222/		J				231.00	216.00	0.94		11,270	10,538						11,270	10,538				
1046 1047 1047 1048 1048 1048 1048 1048 1048 1048 1048											ınMaxAvgM														•						
10/10/2014 FALS F															244.00				12,027							12,027					
109/1000															242.00	189.00	0.78		12,110	9,458						12,110	9,458				
10.11.01.01															224.00			24.75	11,153		1,232		-		•	10,923		1,232		•	•
101/2010 FAISE FAISE FAISE FAISE FAISE SAIS															238.00	181.00	0.76		11,850	9,012				•	•	11,850	9,012			•	•
10/14/2014 FAISE F																								•							
10/15/2014 FALSE F	10/13/2014														236.00				11,632				-			11,632				•	
10/16/2014 FALSE FALSE FALSE SALF															264.00	177.00	0.67		12 207	9.075						12 207	9.075				
10/11/10/14															204.00	1//.00	0.07	26.38	13,38/	0,3/3	1,346					13,38/	0,7/3	1,346			
10/19/20/14 FALSE FALSE FALSE FALSE ALSE ALSE ALSE ALSE ALSE SALE ALSE ALS	10/17/2014	FALSE	FALSE	FALSE	3.16	9.25	6.17	51%		67%		1.50	6.0		256.00				13,173				12,158	9,267	1,301	13,173			12,144	9,267	1,301
10/20/2014 FALSE FALSE FALSE FALSE FALSE FALSE S.12 S.14 S.15 S.																															
10/22/2014 FAISE F															238.00				12,088							12,088					
10/23/014 FALSE FALSE FALSE FALSE ALSE ALSE ALSE ALSE ALSE ALSE ALSE											inMaxAvgM				227.00				11.050							11.050					
10/24/2014 FALSE F															237.00			28.56	11,958		1,432					11,958		1,432			
10/26/2014 FALSE FALSE FALSE ALSE ALSE ALSE ALSE ALSE ALSE ALSE	10/24/2014											1.51			276.00				13,581				12,283	9,462		13,581			12,269	9,462	
10/27/2014 FALSE F																															
10/29/2014 FALSE F															214.00				10,601							10,601					•
10/30/2014 FALSE											inMaxAvgM				200.00	216.00	0.77		12 427	10.350						12 427	10.350				
10/31/2014 FALSE FALSE FALSE FALSE FALSE TRUE 3.51 8.91 6.40 55% 39% 72% 1.39 6.0 6.0 257.00 13,718 12,349 9,668 1,337 13,718 12,334 9,668 1,337 11/2/2014 FALSE FALS															280.00	216.00	0.//	28.42	13,42/	10,358	1,453					13,42/	10,358	1,453			
11/2/2014 FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE 1,366 1,268 9,668 1,366 11/3/2014 FALSE 9,668 1,366 1,268 9,668 1,366 11/3/2014 FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE 9,668 1,366 1,268 9,668 1,366 11/3/2014 FALSE FALSE FALSE FALSE FALSE FALSE 1,366 10,548 12,216 9,451 1,366 11/4/2014 FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE 9,451 1,366 10,548 12,216 9,451 1,366 11/5/2014 FALSE FALSE FALSE FALSE FALSE 9,451 1,366 10,548 12,216	10/31/2014	FALSE	FALSE	TRUE	3.51	8.91	6.40	55%	39%	72%		1.39	6.0	6.0	257.00				13,718				12,349	9,668	1,337	13,718			12,334	9,668	1,337
11/3/2014 FALSE FALSE FALSE FALSE FALSE FALSE 1,366 10,548 12,216 9,451 1,366 11/4/2014 FALSE FALSE FALSE FALSE FALSE FALSE 9,451 1,366 10,548 12,216 9,451 1,366 11/4/2014 FALSE FALSE FALSE FALSE FALSE FALSE 9,451 1,366 10,548 12,216 9,451 1,366 11/5/2014 FALSE FALSE FALSE FALSE SALS 8.81 6.11 56% 39% 69% 1.44 6.0 6.1 230.00 195.00 0.85 11,720 9,937 12,198 9,548 1,366 11,720 9,937 12,183 9,548 1,366																															
11/5/2014 FALSE FALSE FALSE 3.40 8.81 6.11 56% 39% 69% 1.44 6.0 6.1 230.00 195.00 0.85 11,720 9,937 12,198 9,548 1,366 11,720 9,937 12,183 9,548 1,366															204.00				10,548							10,548					
															222.22	105.00	0.0=		44 700	0.027						44.700	0.027				
14/0/2014 TICUL INCUL INCUL J.J.O 0.40 U.1U JJ/0 JJ/0 JJ/0 I.204 U.2U JJ/0 JJ/0 JJ/0 I.344 II.344 II.34	11/5/2014 11/6/2014	FALSE FALSE	FALSE FALSE	FALSE FALSE	3.40 3.33	8.81 8.48	6.11	56% 55%	39% 39%	69% 72%		1.44	6.0	6.1	230.00	195.00	0.85	28.62	11,720	9,937	1,456		12,198 12,211	9,548 9,548	1,366 1,384	11,/20	9,937	1,456	12,183 12,194	9,548 9,548	1,366 1,384

				2.01						_	Diurnal		- 1		Influent		Influent									4 11		30-d Avg	30-d Avg	30-d Avg
Date	Butte Break?	CSU Break?	Precip?	Min Influent	Max Influent	Avg Influent		Min % of	Avg % of Max	Flow Outlier	Peak	30-d Avg of Avg		TSS Conc.,	BOD	BOD/TSS	NH3-N	Avg Inf TSS Load,	Avg Inf BOD Load,	Avg Inf NH3 Load,	Load Outlier	30-d Avg of TSS				non-SN BOD Load,		of non-SN	of non-SN	of non-SN
	Diedki	DIEdKI		Flow, mgd	l Flow, mgd	Flow, mgd	Avg	Max	IVIdX	Туре	Factor (DPF)	Flow, mgd	mgd	mg/L	Conc., mg/L	Ratio	Conc., mg/L	ppd	ppd	ppd	Туре	Load, ppd	Load, ppd	Load, ppd	ppd	ppd	ppd	ppd	BOD Load, ppd	NH3-N Load, ppd
11/7/2014	FALSE	FALSE	FALSE	3.39	8.40	6.05	56%	40%	72%		1.39	6.0	6.2	284.00				14,330				12,369	9,571	1,384	14,330			12,353	9,571	1,384
11/8/2014 11/9/2014	FALSE FALSE	FALSE FALSE	FALSE FALSE	3.28 3.31	8.34 8.44	5.81 5.86	56% 56%	39% 39%	70% 69%		1.44 1.44	6.0 6.0	6.1 6.1									12,369 12,463	9,571 9,571	1,384 1,422				12,353 12,463	9,571 9,571	1,384 1,422
11/10/2014	FALSE	FALSE	FALSE	3.29	8.05	5.89	56%	41%	73%		1.37	6.0	6.0	284.00				13,951				12,624	9,757	1,422	13,951			12,624	9,757	1,422
11/11/2014 11/12/2014	FALSE FALSE	FALSE FALSE	FALSE FALSE	3.35 3.37	8.46 8.16	6.04 5.94	55% 57%	40% 41%	71% 73%		1.40 1.37	6.0 6.0	6.0									12,624 12,624	9,757 9,757	1,422 1,422				12,624 12,624	9,757 9,757	1,422 1,422
11/13/2014	FALSE	FALSE	TRUE	3.37	8.14	6.08	55%	41%	75%		1.34	6.0	6.0				26.86			1,362		12,707	9,757	1,410			1,362	12,707	9,757	1,410
11/14/2014	FALSE	FALSE	FALSE	3.37	8.17	6.02	56%	41%	74%		1.36	6.0	6.0	271.00	234.00	0.86		13,606	11,748			12,776	10,255	1,410	13,606	11,748		12,776	10,255	1,410
11/15/2014 11/16/2014	FALSE FALSE	FALSE FALSE	FALSE FALSE	3.34 3.22	8.39 8.61	5.87 5.92	57% 54%	40% 37%	70% 69%		1.43 1.45	6.0 6.0	5.9 6.0									12,725 12,725	10,681 10,681	1,410 1,426				12,725 12,725	10,681 10,681	1,410 1,426
11/17/2014	FALSE	FALSE	FALSE	3.28	8.19	6.02	54%	40%	74%		1.36	6.0	6.0	215.00				10,794				12,527	10,681	1,426	10,794			12,527	10,681	1,426
11/18/2014 11/19/2014	FALSE FALSE	FALSE FALSE	FALSE TRUE	3.31 3.25	8.20 8.43	6.08 6.26	54% 52%	40% 39%	74% 74%		1.35 1.35	6.0 6.0	6.0 6.0	200.00	208.00	1.04		10,442	10,859			12,527 12,367	10,681 10,726	1,426 1,426	10,442	10,859		12,527 12,367	10,681 10,726	1,426 1,426
11/19/2014	FALSE	FALSE	TRUE	3.46	8.68	6.36	54%	40%	74%		1.36	6.0	6.1	200.00	208.00	1.04	26.17	10,442	10,633	1,388		12,307	10,726	1,420	10,442	10,633	1,388	12,307	10,726	1,420
11/21/2014	FALSE	TRUE	TRUE	3.50	8.38	6.29	56%	42%	75%		1.33	6.0	6.1	268.00				14,059				12,518	10,726	1,418	13,832			12,501	10,726	1,418
11/22/2014 11/23/2014	FALSE FALSE	TRUE TRUE	TRUE TRUE	3.72 3.33	8.86 8.50	6.15 5.86	60% 57%	42% 39%	69% 69%		1.44 1.45	6.0 6.0	6.1 6.1									12,565 12,565	10,726 10,726	1,418 1,415				12,546 12,546	10,726 10,726	1,418 1,415
11/24/2014	FALSE	TRUE	FALSE	3.42	7.68	5.81	59%	45%	76%		1.32	6.0	6.1									12,472	10,726	1,415				12,452	10,726	1,415
11/25/2014	FALSE	TRUE	FALSE	3.40	8.72	5.73	59%	39%	66%		1.52	6.0	6.1				26.85			1,283		12,472	10,726	1,388			1,283	12,452	10,726	1,388
11/26/2014 11/27/2014	TRUE TRUE	TRUE TRUE	FALSE FALSE	3.25 2.68	9.01 9.35	5.80 5.31	56% 50%	36% 29%	64% 57%	AvgMax	1.55 1.76	6.0 6.0	6.0	217.00	220.00	1.01		10,497	10,642			12,308 12,463	10,709 10,709	1,388 1,388	10,497	10,642		12,289 12,442	10,709 10,709	1,388 1,388
11/28/2014	TRUE	TRUE	TRUE	3.18	8.67	5.32	60%	37%	61%	711611167	1.63	6.0	5.9									12,463	10,709	1,388				12,442	10,709	1,388
11/29/2014	TRUE	TRUE	TRUE	3.26	12.89	5.79	56%	25%	45%	AvgMax	2.23	6.0	5.8									12,366	10,797	1,388				12,344	10,797	1,388
11/30/2014 12/1/2014	TRUE TRUE	TRUE TRUE	TRUE TRUE	3.36 3.53	10.24 10.17	6.36 6.88	53% 51%	33% 35%	62% 68%		1.61 1.48	6.0 6.0	5.8 6.0	162.00				9,295				12,366 11,924	10,797 10,797	1,372 1,372	9,295			12,344 11,902	10,797 10,797	1,372 1,372
12/2/2014	FALSE	FALSE	TRUE	1.48	18.82	6.62	22%	8%		'gMinMaxA'	2.84	6.0	6.0					.,				11,924	10,797	1,372	-,			11,902	10,797	1,372
12/3/2014	FALSE	FALSE	TRUE	3.84	15.91	8.24	47%	24%		inMaxAvgM	1.93	6.0	6.1				12.50			0.4.0		11,924	10,797	1,372			946	11,902	10,797	1,372
12/4/2014 12/5/2014	FALSE FALSE	FALSE FALSE	TRUE TRUE	3.88	11.74 11.32	7.51 7.48	52%	33%	64% 66%	inAvgMinM	1.56 1.51	6.1 6.1	6.5 6.5	232.00	212.00	0.91	13.50	14,473	13,225	846		12,077 12,317	10,797 11,282	1,267 1,267	14,473	13,225	846	12,052 12,294	10,797 11,282	1,267 1,267
12/6/2014	FALSE	FALSE	TRUE	4.58	12.92	8.14	56%	35%	63%		1.59	6.2	7.2									12,383	11,619	1,267				12,358	11,619	1,267
12/7/2014 12/8/2014	FALSE FALSE	FALSE FALSE	TRUE FALSE	3.74 3.59	12.05 11.06	7.19 6.85	52% 52%	31% 32%	60% 62%		1.68 1.61	6.2 6.2	7.2 7.3	250.00				14,282				12,383 12,378	11,619 11,619	1,220 1,220	14,282			12,358 12,352	11,619 11,619	1,220 1,220
12/9/2014	FALSE	FALSE	FALSE	3.52	10.55	6.68	53%	33%	63%		1.58	6.3	7.3	230.00				14,202				12,378	11,619	1,220	14,202			12,352	11,619	1,220
12/10/2014	FALSE	FALSE	TRUE	3.43	11.19	6.72	51%	31%	60%		1.67	6.3	7.2	364.00	243.00	0.67		20,400	13,619			13,180	12,019	1,220	20,208	13,569		13,138	12,009	1,220
12/11/2014 12/12/2014	FALSE FALSE	FALSE FALSE	TRUE TRUE	5.23 8.93	18.88 18.82	12.92 11.76	40% 76%	28% 47%	68% 62%	MinAvg MinAvg	1.46 1.60	6.3 6.3	7.2 7.1				22.00			2,371	NH3	13,094 13,094	12,019 12,019	1,220 1,220			2,371	13,048 13,048	12,009 12,009	1,220 1,220
12/13/2014	FALSE	FALSE	FALSE	5.13	14.10	9.04	57%	36%	64%	1411111111111111	1.56	6.5	7.4									13,094	12,019	1,220				13,048	12,009	1,220
12/14/2014	FALSE	FALSE	FALSE	4.07	12.94	7.98	51%	31%	62%		1.62	6.5	7.4	150.00				40.500				13,094	12,019	1,172	10 500			13,048	12,009	1,172
12/15/2014 12/16/2014	FALSE FALSE	FALSE FALSE	TRUE TRUE	3.69 6.59	15.68 17.37	8.89 10.94	42% 60%	24% 38%	57% 63%	'gMinMaxA'	1.76 1.59	6.6 6.8	7.5 8.3	169.00			8.94	12,530		816		12,975 12,975	12,086 12,086	1,172 1,083	12,530		816	12,928 12,928	12,074 12,074	1,172 1,083
12/17/2014	FALSE	FALSE	TRUE	6.56	15.39	10.94	60%	43%	71%		1.41	7.0	9.1	112.00	116.00	1.04		10,219	10,584			12,699	11,786	1,083	10,219	10,584		12,657	11,776	1,083
12/18/2014	FALSE	FALSE	TRUE	5.36	15.03	9.93	54% 51%	36%	66%		1.51	7.2	9.8	169.00				14.656				12,911	11,786	1,083	14 656			12,864	11,776	1,083
12/19/2014 12/20/2014	TRUE TRUE	TRUE TRUE	TRUE TRUE	5.33 5.01	15.72 15.22	10.46 9.15	51% 55%	34% 33%	67% 60%		1.50 1.66	7.4 7.5	9.9 9.8	168.00				14,656				13,085 13,379	11,786 12,017	1,083 1,083	14,656			13,043 13,332	11,776 12,005	1,083 1,083
12/21/2014	TRUE	TRUE	FALSE	4.08	12.75	7.99	51%	32%	63%		1.60	7.6	9.6									13,379	12,017	981				13,332	12,005	981
12/22/2014 12/23/2014	TRUE TRUE	TRUE TRUE	FALSE FALSE	4.00 3.80	13.62 11.46	7.55 7.20	53% 53%	29% 33%	55% 63%	AvgMax	1.80	7.6 7.7	9.9 9.5	134.00			12.71	8,438		763		12,754 12,754	12,017 12,017	981 927	8,438		763	12,733 12,733	12,005 12,005	981 927
12/23/2014	TRUE	TRUE	FALSE	3.63	10.97	6.80	53%	33%	62%		1.59 1.61	7.7	9.5 8.9				12./1			703		12,754	12,017	927			703	12,733	12,005 12,005	927
12/25/2014	TRUE	TRUE	FALSE	3.39	9.07	5.75	59%	37%	63%		1.58	7.7	8.2			_						12,754	12,017	927				12,733	12,005	927
12/26/2014 12/27/2014	TRUE TRUE	TRUE TRUE	FALSE FALSE	3.37 3.25	10.24 9.86	5.98 5.93	56% 55%	33% 33%	58% 60%		1.71 1.66	7.7 7.7	7.6 7.0	338.00	193.00	0.57		16,857	9,626			13,165 13,461	11,539 11,763	808 808	16,857	9,626		13,145 13,440	11,529 11,751	808 808
12/27/2014	TRUE	TRUE	FALSE	3.24	9.83	5.78	56%	33%	59%		1.70	7.6	6.5									13,461	11,763	808				13,440	11,751	808
12/29/2014	TRUE	TRUE	FALSE	3.19	9.62	5.90	54%	33%	61%		1.63	7.7	6.2	239.00			22.5-	11,760		4 22-		13,291	11,763	808	11,760		4 22-	13,272	11,751	808
12/30/2014 12/31/2014	TRUE TRUE	TRUE TRUE	FALSE FALSE	3.16 3.13	9.55 9.63	5.84 5.88	54% 53%	33% 33%	61% 61%		1.64 1.64	7.6 7.6	6.1	226.00	182.00	0.81	20.58	11,083	8,925	1,002		13,291 13,090	11,763 11,196	857 857	11,083	8,925	1,002	13,272 13,073	11,751 11,186	857 857
1/1/2015	TRUE	TRUE	FALSE	3.22	9.11	5.33	60%	35%	59%		1.71	7.5	5.8		202.00	0.01		22,000	0,323			13,470	11,196	857	11,000	0,323		13,451	11,186	857
1/2/2015	TRUE	TRUE	FALSE	3.12	9.31	5.55	56%	34%	60%		1.68	7.4	5.8	246.00				11,387				13,280	11,196	857	11,387			13,263	11,186	857
1/3/2015 1/4/2015	TRUE TRUE	TRUE TRUE	FALSE FALSE	3.17 3.09	9.66 9.76	5.67 5.71	56% 54%	33% 32%	59% 59%		1.70 1.71	7.4 7.3	5.7 5.7									13,280 13,280	11,196 11,196	857 860				13,263 13,263	11,186 11,186	857 860
1/5/2015	TRUE	TRUE	FALSE	3.12	9.15	5.69	55%	34%	62%		1.61	7.2	5.7	202.00				9,586				12,836	10,688	860	9,586			12,819	10,676	860
1/6/2015	TRUE	TRUE	FALSE	2 1 4	9.06	5.63	FE0/	240/		inAvgMinM	1.61	7.2	5.7	210.00	192.00	0.02	24.83	10 274	0.622	1,166		12,836	10,688	937	10 274	0 622	1,166	12,819	10,676	937
1/7/2015 1/8/2015	TRUE TRUE	TRUE TRUE	FALSE FALSE	3.14 3.16	9.22 9.04	5.68 5.71	55% 55%	34% 35%	62% 63%		1.62 1.58	7.1 7.1	5.6 5.6	219.00	182.00	0.83		10,374	8,622			12,631 12,481	10,275 10,275	937 937	10,374	8,622		12,615 12,463	10,265 10,265	937 937

				D. 0.1	20	A				Fl	Diurnal	20 d A	7 10	ludlu and	Influent		Influent	A Las	A.v. Inf	A los	l d	20 d A	20 4 4	20 4 4	CAL	CAI	CDI	30-d Avg	30-d Avg	30-d Avg
Date	Butte	CSU	Precip?	Min Influent	Max Influent	Avg Influent		Min % of		Flow Outlier	Peak		7-d Avg of Avg Flow,	TSS Conc.,	BOD	BOD/TSS		Avg Inf TSS Load,	Avg Inf BOD Load,	Avg Inf NH3 Load,	Load Outlier	of TSS				non-SN BOD Load,			of non-SN	
	Break?	Break?		Flow, mg	d Flow, mg	d Flow, mgd	Avg	Max	Max	Туре	Factor (DPF)	Flow, mgd	mgd	mg/L	Conc., mg/L	Ratio	Conc., mg/L	ppd	ppd	ppd	Туре	Load, ppd	Load, ppd	Load, ppd	ppd	ppd	ppd	ppd	BOD Load, ppd	NH3-N Load, ppd
1/9/2015	TRUE	TRUE	FALSE	3.17	9.01	5.63	56%	35%	62%	A = N A =	1.60	7.0	5.7	258.00				12,114				12,450	10,275	937	12,114			12,434	10,265	937
1/10/2015 1/11/2015	TRUE TRUE	TRUE TRUE	FALSE FALSE	3.18 3.12	10.00 9.69	5.66 5.60	56% 56%	32% 32%	57% 58%	AvgMax AvgMax	1.77 1.73	7.1 7.1	5.7 5.7									11,728 11,728	9,439 9,439	937 937				11,728 11,728	9,439 9,439	937 937
1/12/2015	TRUE	TRUE	FALSE	3.14	8.91	5.65	56%	35%	63%		1.58	7.0	5.7									11,728	9,439	937				11,728	9,439	937
1/13/2015 1/14/2015	TRUE TRUE	TRUE TRUE	FALSE FALSE	3.07 3.13	9.17 9.41	5.65 5.67	54% 55%	33% 33%	62% 60%		1.62 1.66	6.9 6.8	5.7 5.7	246.00			23.59	11,592		1,112		11,716 11,716	9,439 9,439	972 972	11,592		1,112	11,716 11,716	9,439 9,439	972 972
1/15/2015	TRUE	TRUE	FALSE	3.15	9.21	5.69	55%	34%	62%		1.62	6.7	5.7	275.00	255.00	0.93		13,050	12,101			11,760	9,971	972	13,050	12,101		11,760	9,971	972
1/16/2015 1/17/2015	TRUE TRUE	TRUE TRUE	TRUE FALSE	3.24 3.15	9.05 9.64	5.74 5.73	56% 55%	36% 33%	63% 59%		1.58 1.68	6.6 6.4	5.7 5.7	281.00				13,452				11,890 12,029	9,971 9,818	1,011 1,011	13,452			11,890 12,029	9,971 9,818	1,011 1,011
1/17/2015	TRUE	TRUE	FALSE	3.14	9.96	5.62	56%	32%	56%	AvgMax	1.77	6.2	5.7									12,029	9,818	1,011				12,029	9,818	1,011
1/19/2015	TRUE	TRUE	FALSE	3.16	10.25	5.98	53%	31%	58%		1.71	6.0	5.7					40.40=				11,790	9,818	1,011				11,790	9,818	1,011
1/20/2015 1/21/2015	TRUE TRUE	FALSE FALSE	TRUE TRUE	3.16 3.11	10.07 9.99	5.91 5.99	53% 52%	31% 31%	59% 60%		1.70 1.67	5.9 5.8	5.8 5.8	272.00 314.00	138.00	0.44	24.99	13,407 15,686	6,894	1,232		11,925 12,214	9,818 9,233	1,055 1,055	13,407 15,686	6,894	1,232	11,925 12,214	9,818 9,233	1,055 1,055
1/22/2015	TRUE	FALSE	FALSE	3.12	9.76	5.97	52%	32%	61%		1.63	5.9	5.9					-,	.,			12,529	9,233	1,055	-,	.,		12,529	9,233	1,055
1/23/2015 1/24/2015	TRUE TRUE	FALSE FALSE	TRUE FALSE	3.12 3.19	9.83 10.26	5.97 5.87	52% 54%	32% 31%	61% 57%	AvgMax	1.65 1.75	5.8 5.8	5.9 5.9	225.00				11,203				12,427 12,427	9,233 9,233	1,128 1,128	11,203			12,427 12,427	9,233 9,233	1,128 1,128
1/25/2015	TRUE	FALSE	FALSE	3.09	10.26	5.99	52%	29%	56%	AvgMax	1.78	5.8	6.0									12,427	9,233	1,128				12,427	9,233	1,128
1/26/2015	TRUE	FALSE	FALSE	3.10	10.00	5.92	52%	31%	59%		1.69	5.8	6.0	175.00			2===	8,640		4 22-		11,795	9,135	1,128	8,640		4.00-	11,795	9,135	1,128
1/27/2015 1/28/2015	FALSE FALSE	FALSE FALSE	FALSE FALSE	3.13 3.05	9.83 9.76	5.96 5.92	53% 52%	32% 31%	61% 61%		1.65 1.65	5.8 5.8	6.0 6.0	264.00	184.00	0.70	25.79	13,034	9,085	1,282		11,795 11,883	9,135 9,125	1,159 1,159	13,034	9,085	1,282	11,795 11,883	9,135 9,125	1,159 1,159
1/29/2015	FALSE	FALSE	FALSE	3.09	9.83	5.88	53%	31%	60%		1.67	5.8	5.9					·	-,			11,893	9,125	1,159		-,		11,893	9,125	1,159
1/30/2015 1/31/2015	FALSE FALSE	FALSE FALSE	FALSE FALSE	3.05 3.10	9.65 10.28	5.92 5.85	52% 53%	32% 30%	61% 57%	AvgMax	1.63 1.76	5.8 5.8	5.9 5.9	157.00				7,752				11,597 11,637	9,125 9,175	1,198 1,198	7,752			11,597 11,637	9,125 9,175	1,198 1,198
2/1/2015	FALSE	FALSE	FALSE	2.89	10.28	5.79	50%	27%	54%	AvgMax	1.87	5.8	5.9									11,637	9,175	1,198				11,637	9,175	1,198
2/2/2015	FALSE	FALSE	TRUE	3.07	9.79	5.88	52%	31%	60%		1.66	5.8	5.9	232.00				11,377				11,636	9,175	1,198	11,377			11,636	9,175	1,198
2/3/2015 2/4/2015	FALSE FALSE	FALSE FALSE	FALSE FALSE	3.13 3.12	9.96 9.77	5.94 5.95	53% 52%	31% 32%	60% 61%		1.68 1.64	5.8 5.8	5.9 5.9	296.00	219.00	0.74	27.28	14,688	10,867	1,351		11,636 11,854	9,175 9,514	1,229 1,229	14,688	10,867	1,351	11,636 11,854	9,175 9,514	1,229 1,229
2/5/2015	FALSE	FALSE	FALSE	3.15	9.77	5.98	53%	32%	61%		1.63	5.8	5.9					_ ,,,,,,,				12,028	9,514	1,229	,			12,028	9,514	1,229
2/6/2015	FALSE FALSE	FALSE FALSE	TRUE TRUE	3.17 4.59	13.74 13.73	7.43 8.59	43% 53%	23% 33%		inMaxAvgM	1.85	5.8 6.0	5.9 6.5	286.00				17,722				12,435 12,594	9,514 9,737	1,244 1,244	17,722			12,435 12,594	9,514 9,737	1,244 1,244
2/7/2015 2/8/2015	FALSE	FALSE	TRUE	3.58	14.13	8.31	43%	25%	63% 59%		1.60 1.70	6.1	6.8									12,594	9,737	1,244				12,594	9,737	1,244
2/9/2015	FALSE	FALSE	FALSE	4.16	13.22	8.39	50%	31%	63%		1.58	6.2	7.0	170.00				11,895				12,577	9,737	1,244	11,895			12,577	9,737	1,244
2/10/2015 2/11/2015	FALSE FALSE	FALSE FALSE	FALSE FALSE	3.68 3.44	12.23 11.74	7.49 7.12	49% 48%	30% 29%	61% 61%		1.63 1.65	6.3 6.3	7.2 7.4				14.20			887		12,577 12,577	9,737 9,737	1,173 1,173			887	12,577 12,577	9,737 9,737	1,173 1,173
2/12/2015	FALSE	FALSE	FALSE	3.34	10.94	6.85	49%	31%	63%		1.60	6.3	7.5									12,577	9,737	1,173				12,577	9,737	1,173
2/13/2015 2/14/2015	FALSE FALSE	FALSE FALSE	FALSE FALSE	3.33 3.31	10.78 10.99	6.72 6.38	50% 52%	31% 30%	62% 58%		1.60 1.72	6.4 6.4	7.6 7.5	225.00	209.00	0.93		12,610	11,713			12,655 12,655	10,132 10,132	1,188 1,188	12,610	11,713		12,655 12,655	10,132 10,132	1,188 1,188
2/15/2015	FALSE	FALSE	FALSE	3.33	11.10	6.24	53%	30%	56%	AvgMax	1.72	6.4	7.3									12,622	9,640	1,188				12,622	9,640	1,188
2/16/2015	FALSE	FALSE	FALSE	3.21	10.94	6.46	50%	29%	59%		1.69	6.5	7.1									12,547	9,640	1,188				12,547	9,640	1,188
2/17/2015 2/18/2015	FALSE FALSE	FALSE FALSE	FALSE FALSE	3.25 3.21	10.32 10.40	6.38 6.29	51% 51%	31% 31%	62% 60%		1.62 1.65	6.5 6.5	6.8 6.6	259.00	219.00	0.85		13,587	11,488			12,547 12,634	9,640 10,010	1,188 1,188	13,587	11,488		12,547 12,634	9,640 10,010	1,188 1,188
2/19/2015	FALSE	FALSE	TRUE	3.15	10.05	6.28	50%	31%	62%		1.60	6.5	6.5				19.20	-,	,	1,006		12,634	10,010	1,152	-,	,	1,006	12,634	10,010	1,152
2/20/2015 2/21/2015	FALSE FALSE	FALSE FALSE	TRUE FALSE	3.18 3.14	10.16 10.33	6.20 6.09	51% 52%	31% 30%	61% 59%		1.64 1.70	6.5 6.5	6.4 6.3	241.00				12,462				12,555 12,270	10,010 10,788	1,131 1,131	12,462			12,555 12,270	10,010 10,788	1,131 1,131
2/21/2015	FALSE	FALSE	FALSE	3.15	10.33	6.04	52%	30%	58%	AvgMax	1.73	6.5	6.3									12,270	10,788	1,131				12,270	10,788	1,131
2/23/2015	FALSE	FALSE	FALSE	3.17	10.34	6.10	52%	31%	59%		1.70	6.5	6.3	230.00			10.01	11,701		000		12,315	10,788	1,131	11,701		000	12,315	10,788	1,131
2/24/2015 2/25/2015	FALSE FALSE	FALSE FALSE	FALSE FALSE	3.09 3.12	10.09 10.46	6.09 6.09	51% 51%	31% 30%	60% 58%		1.66 1.72	6.5 6.5	6.2 6.2	263.00	231.00	0.88	19.01	13,358	11,733	966		12,315 12,402	10,788 10,977	1,098 1,098	13,358	11,733	966	12,315 12,402	10,788 10,977	1,098 1,098
2/26/2015	FALSE	FALSE	FALSE	3.15	10.24	6.08	52%	31%	59%		1.68	6.5	6.1					·				12,744	10,977	1,098	·			12,744	10,977	1,098
2/27/2015 2/28/2015	FALSE FALSE	FALSE FALSE	TRUE FALSE	3.18 3.15	10.17 10.74	6.15 6.01	52% 52%	31% 29%	60% 56%	AvgMax	1.65 1.79	6.5 6.5	6.1 6.1	264.00				13,541				12,811 12,790	10,977 11,450	1,052 1,052	13,541			12,811 12,790	10,977 11,450	1,052 1,052
3/1/2015	FALSE	FALSE	FALSE	3.09	10.52	5.96	52%	29%	57%	AvgMax	1.77	6.6	6.1									12,790	11,450	1,052				12,790	11,450	1,052
3/2/2015	FALSE	FALSE	FALSE	3.18	10.13	6.05	53%	31%	60%	Aughton	1.67	6.6	6.1	281.00			22.24	14,178		1 102		13,375	11,450	1,052	14,178		1 102	13,375	11,450	1,052
3/3/2015 3/4/2015	FALSE FALSE	FALSE FALSE	FALSE FALSE	3.16 3.15	10.51 10.26	6.07 6.06	52% 52%	30% 31%	58% 59%	AvgMax	1.73 1.69	6.6 6.6	6.1 6.1	234.00	257.00	1.10	23.34	11,826	12,989	1,182		13,375 13,246	11,450 11,758	1,078 1,078	11,826	12,989	1,182	13,375 13,246	11,450 11,758	1,078 1,078
3/5/2015	FALSE	FALSE	FALSE	3.17	10.06	6.03	53%	32%	60%		1.67	6.6	6.1						•			13,415	11,758	1,078		•		13,415	11,758	1,078
3/6/2015 3/7/2015	FALSE FALSE	FALSE FALSE	FALSE FALSE	3.11 3.19	9.84 10.16	6.00 5.94	52% 54%	32% 31%	61% 58%		1.64 1.71	6.6 6.6	6.1 6.0	268.00				13,411				13,415 13,299	11,758 11,981	1,010 1,010	13,411			13,415 13,299	11,758 11,981	1,010 1,010
3/8/2015	FALSE	FALSE	FALSE	3.15	10.45	5.94	53%	30%	57%	AvgMax	1.76	6.6	6.0									13,299	11,981	1,010				13,299	11,981	1,010
3/9/2015	FALSE	FALSE	FALSE	3.09	10.34	5.97	52%	30%	58%	AvgMax	1.73	6.6	6.0	177.00			25.00	8,813		1 257		12,489	11,981	1,010	8,813		1 257	12,489	11,981	1,010
3/10/2015 3/11/2015	FALSE FALSE	FALSE FALSE	FALSE TRUE	3.18 3.17	9.62 9.90	6.03	53% 53%	33% 32%	63% 61%		1.60 1.64	6.5 6.4	6.0 6.0	263.00	269.00	1.02	25.00	13,226	13,528	1,257		12,489 12,551	11,981 12,290	1,059 1,059	13,226	13,528	1,257	12,489 12,551	11,981 12,290	1,059 1,059
3/12/2015	FALSE	FALSE	FALSE	3.16	10.03	6.10	52%	32%	61%		1.64	6.3	6.0									12,610	12,290	1,059				12,610	12,290	1,059

											Diurnal				Influent		Influent											30-d Avg	30-d Avg	30-d Avg
Date	Butte	CSU	Precip?	Min Influent	Max Influent	Avg Influent	Min % of	Min % of	Avg % of	Flow Outlier	Peak	30-d Avg of Avg		Influent TSS Conc.,	BOD	BOD/TSS	NH3-N	Avg Inf TSS Load.	Avg Inf BOD Load,	Avg Inf NH3 Load.	Load Outlier	30-d Avg of TSS				non-SN BOD Load,		of non-SN	of non-SN	of non-SN
	Break?	Break?				flow, mgd	Avg	Max	Max	Туре	Factor (DPF)	Flow, mgd	mgd	mg/L	Conc., mg/L	Ratio	Conc., mg/L	ppd	ppd	ppd	Туре			Load, ppd		ppd	ppd	TSS Load, ppd	BOD Load, ppd	NH3-N Load, ppd
3/13/2015	FALSE	TRUE	FALSE	3.04	9.58	5.95	51%	32%	62%		1.61	6.2	6.0	186.00				9,230				12,329	12,290	1,102	9,230			12,329	12,290	1,102
3/14/2015 3/15/2015	FALSE FALSE	TRUE TRUE	FALSE FALSE	3.17 3.17	9.45 9.64	5.51 5.38	58% 59%	34% 33%	58% 56%	AvgMax	1.72 1.79	6.2 6.1	5.9 5.9									12,329 12,329	12,290 12,290	1,102 1,102				12,329 12,329	12,290 12,290	1,102 1,102
3/16/2015	FALSE	TRUE	FALSE	3.14	9.06	5.49	57%	35%	61%		1.65	6.1	5.9	223.00				10,210				12,129	12,435	1,102	10,210			12,129	12,435	1,102
3/17/2015 3/18/2015	FALSE TRUE	TRUE TRUE	FALSE FALSE	3.15 3.21	8.92 8.50	5.38 5.40	59% 59%	35% 38%	60% 64%		1.66 1.57	6.0 6.0	5.8 5.7	256.00	215.00	0.84	24.96	11,529	9,683	1,120		12,129 12,082	12,435 11,884	1,106 1,106	11,529	9,683	1,120	12,129 12,082	12,435 11,884	1,106 1,106
3/19/2015	TRUE	TRUE	FALSE	3.18	8.03	5.36	59%	40%	67%		1.50	6.0	5.6	250.00	223.00	0.0 .		11,515	3,000			12,082	11,884	1,106	11,525	3,000		12,082	11,884	1,106
3/20/2015 3/21/2015	TRUE TRUE	TRUE TRUE	FALSE FALSE	3.25 3.22	7.43 7.80	5.44 5.41	60% 60%	44% 41%	73% 69%		1.37 1.44	5.9 5.9	5.5 5.4	256.00				11,615				12,049 11,931	11,884 11,983	1,106 1,106	11,615			12,049 11,931	11,884 11,983	1,106 1,106
3/21/2013	TRUE	TRUE	TRUE	3.20	8.06	5.65	57%	40%	70%		1.44	5.9	5.4									11,931	11,983	1,131				11,931	11,983	1,131
3/23/2015	TRUE	TRUE	TRUE	3.20	8.04	5.89	54%	40%	73%		1.37	5.8	5.5	235.00			24.04	11,544		4 240		11,860	11,983	1,131	11,544		1 210	11,860	11,983	1,131
3/24/2015 3/25/2015	TRUE FALSE	FALSE FALSE	TRUE FALSE	3.23 3.17	8.45 8.31	5.85 5.86	55% 54%	38% 38%	69% 71%		1.44 1.42	5.8 5.8	5.5 5.6	257.00	228.00	0.89	24.81	12,560	11,143	1,210		11,860 11,910	11,983 11,815	1,147 1,147	12,560	11,143	1,210	11,860 11,910	11,983 11,815	1,147 1,147
3/26/2015	FALSE	FALSE	FALSE	3.25	8.12	5.88	55%	40%	72%		1.38	5.8	5.7									11,926	11,815	1,147				11,926	11,815	1,147
3/27/2015 3/28/2015	FALSE FALSE	FALSE FALSE	FALSE FALSE	3.24 3.24	8.35 8.72	5.94 5.79	55% 56%	39% 37%	71% 66%		1.41 1.51	5.8 5.8	5.7 5.8	272.00	211.00	0.78		13,475	10,453			12,037 11,935	11,588 11,559	1,192 1,192	13,475	10,453		12,037 11,935	11,588 11,559	1,192 1,192
3/29/2015	FALSE	FALSE	FALSE	3.21	8.96	5.68	57%	36%	63%		1.58	5.8	5.8									11,935	11,559	1,192				11,935	11,559	1,192
3/30/2015	FALSE	FALSE	FALSE	3.30	8.38	5.91	56%	39%	71%		1.42	5.8	5.9	224.00			26.05	11,041		1 202		11,743	11,559	1,192	11,041		1 202	11,743	11,559	1,192
3/31/2015 4/1/2015	FALSE FALSE	FALSE FALSE	FALSE FALSE	3.22 3.23	8.04 8.19	5.95 5.84	54% 55%	40% 39%	74% 71%		1.35 1.40	5.8 5.8	5.9 5.9	294.00	285.00	0.97	26.05	14,319	13,881	1,293		11,743 11,927	11,559 11,946	1,212 1,212	14,319	13,881	1,293	11,743 11,927	11,559 11,946	1,212 1,212
4/2/2015	FALSE	FALSE	FALSE	3.20	8.25	5.84	55%	39%	71%		1.41	5.8	5.9									11,754	11,946	1,212				11,754	11,946	1,212
4/3/2015 4/4/2015	FALSE FALSE	FALSE FALSE	FALSE FALSE	3.20 3.21	8.23 8.77	5.81 5.65	55% 57%	39% 37%	71% 64%		1.42 1.55	5.8 5.8	5.8 5.8	294.00				14,246				11,932 11,940	11,946 11,738	1,220 1,220	14,246			11,932 11,940	11,946 11,738	1,220 1,220
4/5/2015	FALSE	FALSE	TRUE	3.15	8.53	5.52	57%	37%	65%		1.55	5.8	5.8									11,940	11,738	1,220				11,940	11,738	1,220
4/6/2015 4/7/2015	FALSE FALSE	FALSE FALSE	FALSE	3.05	9.21	5.56	47%	17%		inAvgMinM	1.66	5.7 5.7	5.8 5.8	382.00			23.48	17,713		1,259		12,271	11,738	1,220 1,228	17,713		1,259	12,271 12,271	11,738	1,220 1,228
4/8/2015	FALSE	FALSE	TRUE FALSE	3.32	18.00 8.71	6.43 6.18	54%	38%	36% 71%	inMaxAvgM	2.80 1.41	5.8	5.8	260.00	212.00	0.82	23.40	13,401	10,927	1,239		12,271 12,352	11,738 11,602	1,228	13,401	10,927	1,239	12,352	11,738 11,602	1,228
4/9/2015	FALSE	FALSE	FALSE	3.28	8.39	6.07	54%	39%	72%		1.38	5.8	5.8									12,624	11,602	1,228				12,624	11,602	1,228
4/10/2015 4/11/2015	FALSE FALSE	FALSE FALSE	FALSE FALSE	3.29 3.31	8.29 8.63	6.02 5.86	55% 56%	40% 38%	73% 68%		1.38 1.47	5.8 5.8	5.9 5.9									12,624 12,574	11,602 11,217	1,221 1,221				12,624 12,574	11,602 11,217	1,221 1,221
4/12/2015	FALSE	FALSE	FALSE	3.23	8.60	5.78	56%	38%	67%		1.49	5.7	5.9									12,574	11,217	1,221				12,574	11,217	1,221
4/13/2015 4/14/2015	FALSE FALSE	FALSE FALSE	FALSE FALSE	3.21 3.45	8.08 8.13	5.86 5.90	55% 58%	40% 42%	73% 73%		1.38 1.38	5.7 5.8	6.0 6.0	241.00			23.20	11,778		1,142		12,786 12,786	11,217 11,217	1,221 1,205	11,778		1,142	12,786 12,786	11,217 11,217	1,221 1,205
4/15/2015	FALSE	FALSE	FALSE	3.37	8.10	5.88	57%	42%	73%		1.38	5.8	5.9	286.00	216.00	0.76	23.20	14,025	10,592	1,142		12,780	11,113	1,205	14,025	10,592	1,142	12,780	11,113	1,205
4/16/2015	FALSE	FALSE	FALSE	3.44	8.20	5.89	58%	42%	72%		1.39	5.8	5.9	267.00				42.002				13,104	11,113	1,205	42.002			13,104	11,113	1,205
4/17/2015 4/18/2015	FALSE FALSE	FALSE FALSE	FALSE FALSE	3.45 3.46	7.93 8.28	5.88 5.66	59% 61%	44% 42%	74% 68%		1.35 1.46	5.8 5.8	5.9 5.8	267.00				13,093				13,103 13,234	11,113 11,399	1,226 1,226	13,093			13,103 13,234	11,113 11,399	1,226 1,226
4/19/2015	FALSE	FALSE	FALSE	3.32	8.76	5.58	59%	38%	64%		1.57	5.8	5.8									13,234	11,399	1,226				13,234	11,399	1,226
4/20/2015 4/21/2015	FALSE FALSE	FALSE FALSE	FALSE FALSE	3.17 3.35	9.14 16.66	5.84 5.93	54% 56%	35% 20%	64% 36%	inMaxAvgM	1.57 2.81	5.8 5.8	5.8 5.8				25.20			1,246		13,381 13,381	11,399 11,399	1,226 1,230			1,246	13,381 13,381	11,399 11,399	1,226 1,230
4/22/2015	FALSE	FALSE	FALSE	3.37	8.07	5.87	57%	42%	73%	IIIIVIdAAVGIVI	1.37	5.8	5.8	296.00	258.00	0.87	23.20	14,491	12,631	1,240		13,474	11,604	1,230	14,491	12,631	1,240	13,474	11,604	1,230
4/23/2015	FALSE	FALSE	TRUE	3.36	8.08	5.90	57%	42%	73%		1.37	5.8	5.8									13,649	11,604	1,230				13,649	11,604	1,230
4/24/2015 4/25/2015	FALSE FALSE	FALSE FALSE	TRUE TRUE	3.39 3.50	7.95 8.42	5.95 5.98	57% 59%	43% 42%	75% 71%		1.34 1.41	5.8 5.9	5.8 5.8									13,649 13,758	11,604 11,697	1,235 1,235				13,649 13,758	11,604 11,697	1,235 1,235
4/26/2015	FALSE	FALSE	FALSE	3.36	8.19	5.79	58%	41%	71%		1.41	5.9	5.8									13,758	11,697	1,235				13,758	11,697	1,235
4/27/2015 4/28/2015	FALSE FALSE	FALSE FALSE	FALSE FALSE	3.37 3.44	8.39 8.10	6.03 5.88	56% 59%	40% 42%	72% 73%		1.39 1.38	5.9 5.9	5.9 5.9				23.19			1,137		13,790 13,790	12,008 12,008	1,235 1,215			1,137	13,790 13,790	12,008 12,008	1,235 1,215
4/29/2015	FALSE	FALSE	FALSE	3.38	8.03	5.83	58%	42%	73%		1.38	5.9	5.9	333.00	248.00	0.74	23.13	16,191	12,058	1,137		14,030	12,018	1,215	16,191	12,058	1,137	14,030	12,008	1,215
4/30/2015	FALSE	FALSE	FALSE	3.34	7.96	5.79	58%	42%	73%		1.37	5.9	5.9									14,362	12,018	1,215				14,362	12,018	1,215
5/1/2015 5/2/2015	FALSE FALSE	FALSE FALSE	FALSE FALSE	3.46 3.42	7.88 7.90	5.87 5.65	59% 61%	44% 43%	74% 72%		1.34 1.40	5.9 5.8	5.9 5.9									14,362 14,367	12,018 11,552	1,196 1,196				14,362 14,367	12,018 11,552	1,196 1,196
5/3/2015	FALSE	FALSE	FALSE	3.34	8.01	5.60	60%	42%	70%		1.43	5.8	5.8									14,367	11,552	1,196				14,367	11,552	1,196
5/4/2015 5/5/2015	FALSE FALSE	FALSE FALSE	FALSE FALSE	3.33 3.32	7.86 8.01	5.77 5.83	58% 57%	42% 41%	73% 73%		1.36 1.37	5.8 5.8	5.8 5.8									14,385 14,385	11,552 11,552	1,196 1,196				14,385 14,385	11,552 11,552	1,196 1,196
5/6/2015	FALSE	FALSE	FALSE	3.38	8.09	5.80	58%	42%	72%		1.39	5.9	5.8	265.00	252.00	0.95		12,819	12,190			14,189	11,680	1,196	12,819	12,190		14,189	11,680	1,196
5/7/2015	FALSE	FALSE	FALSE	3.35	7.77	5.77	58%	43%	74%		1.35	5.9	5.8									13,685	11,680	1,196				13,685	11,680	1,196
5/8/2015 5/9/2015	FALSE FALSE	FALSE FALSE	FALSE FALSE	3.44 3.36	7.71 7.92	5.81 5.53	59% 61%	45% 42%	75% 70%		1.33 1.43	5.9 5.8	5.8 5.7									13,685 13,733	11,680 11,868	1,175 1,175				13,685 13,733	11,680 11,868	1,175 1,175
5/10/2015	FALSE	FALSE	FALSE	3.32	8.21	5.50	60%	40%	67%		1.49	5.8	5.7									13,733	11,868	1,175				13,733	11,868	1,175
5/11/2015 5/12/2015	FALSE FALSE	FALSE FALSE	FALSE FALSE	3.31 3.32	8.03 7.87	5.82 5.74	57% 58%	41% 42%	72% 73%		1.38 1.37	5.8 5.8	5.7 5.7				24.40			1,168		13,733 13,733	11,868 11,868	1,175 1,173			1,168	13,733 13,733	11,868 11,868	1,175 1,173
5/13/2015	FALSE	FALSE	FALSE	3.38	7.97	5.80	58%	42%	73%		1.37	5.8	5.7	287.00	229.00	0.80	27.40	13,883	11,077	1,100		13,754	11,710	1,173	13,883	11,077	1,100	13,754	11,710	1,173
5/14/2015	FALSE	FALSE	FALSE	3.26	7.82	5.82	56%	42%	74%		1.34	5.8	5.7									14,084	11,710	1,173				14,084	11,710	1,173

											Diurnal	22-1-	- 1.		Influent		Influent					20.46	00-1	20-1-				30- <u>d Avg</u>	30-d Avg	30-d Avg
Date	Butte	CSU	Precip?	Min Influent	Max Influent	Avg Influent		Min % of		Flow Outlier	Peak		7-d Avg of Avg Flow,	Influent TSS Conc.,	BOD	BOD/TSS	NH3-N	Avg Inf TSS Load,	Avg Inf BOD Load,	Avg Inf NH3 Load,	Load Outlier	30-d Avg of TSS		30-d Avg of NH3-N				of non-SN	of non-SN	of non-SN
	Break?	Break?		Flow, mgd	Flow, mgd	Flow, mgd	Avg	Max	Max	Туре	Factor (DPF)	Flow, mgd	mgd	mg/L	Conc., mg/L	Ratio	Conc., mg/L	ppd	ppd	ppd	Туре	Load, ppd	Load, ppd	Load, ppd	ppd	ppd	ppd	TSS Load, ppd		NH3-N Load, ppd
5/15/2015	FALSE	FALSE	FALSE	3.48	8.03	5.96	58%	43%	74%		1.35	5.8	5.7									14,084	11,710	1,184				14,084	11,710	1,184
5/16/2015 5/17/2015	FALSE FALSE	FALSE TRUE	FALSE FALSE	3.43 3.35	8.04 7.91	5.66 5.57	61% 60%	43% 42%	70% 70%		1.42 1.42	5.8 5.8	5.7 5.7									14,095 14,095	11,989 11,989	1,184 1,184				14,095 14,095	11,989 11,989	1,184 1,184
5/18/2015	FALSE	TRUE	FALSE	3.38	8.24	5.56	61%	41%	67%		1.48	5.8	5.7									14,346	11,989	1,184				14,346	11,989	1,184
5/19/2015 5/20/2015	FALSE FALSE	TRUE TRUE	FALSE FALSE	3.40 3.42	7.10 7.18	5.51 5.50	62% 62%	48% 48%	78% 77%		1.29 1.31	5.8 5.8	5.7 5.7	259.00	278.00	1.07	26.00	11,880	12,752	1,195		14,346 13,853	11,989 12,142	1,187 1,187	11,880	12,752	1,195	14,346 13,853	11,989 12,142	1,187 1,187
5/21/2015	FALSE	TRUE	FALSE	3.38	7.16	5.50	61%	47%	77%		1.30	5.8	5.6	233.00	270.00	1.07		11,000	12,732			13,853	12,142	1,187	11,000	12,732		13,853	12,142	1,187
5/22/2015	FALSE	TRUE	FALSE	3.42	6.87	5.42	63%	50%	79%		1.27	5.7	5.6									13,853	12,142	1,167				13,853	12,142	1,167
5/23/2015 5/24/2015	FALSE FALSE	TRUE TRUE	FALSE FALSE	3.43 3.37	7.45 7.07	5.24 4.98	65% 68%	46% 48%	70% 70%		1.42 1.42	5.7 5.7	5.5 5.4									13,693 13,693	12,019 12,019	1,167 1,167				13,693 13,693	12,019 12,019	1,167 1,167
5/25/2015	FALSE	TRUE	FALSE	3.33	7.38	5.15	65%	45%	70%		1.43	5.7	5.4									13,693	12,019	1,167				13,693	12,019	1,167
5/26/2015 5/27/2015	FALSE FALSE	TRUE TRUE	FALSE FALSE	3.36 3.43	7.00 7.08	5.35 5.41	63% 63%	48% 48%	76% 76%		1.31 1.31	5.6 5.6	5.3 5.3	276.00	201.00	0.73		12,453	9,069			13,693 13,445	12,019 11,429	1,167 1,167	12,453	9,069		13,693 13,445	12,019 11,429	1,167 1,167
5/28/2015	FALSE	TRUE	FALSE	3.42	6.90	5.27	65%	50%	76%		1.31	5.6	5.3	270.00	201.00	0.73		12,433	3,003			13,445	11,429	1,167	12,433	3,003		13,445	11,429	1,167
5/29/2015	TRUE	TRUE	FALSE	3.42	6.97	5.32	64%	49%	76%		1.31	5.6	5.3				23.42			1,039		13,445	11,429	1,134			1,039	13,445	11,429	1,134
5/30/2015 5/31/2015	TRUE TRUE	TRUE TRUE	FALSE FALSE	3.43 3.33	7.15 6.95	5.14 5.09	67% 65%	48% 48%	72% 73%		1.39 1.37	5.6 5.5	5.2 5.2									12,759 12,759	11,272 11,272	1,134 1,134				12,759 12,759	11,272 11,272	1,134 1,134
6/1/2015	TRUE	TRUE	FALSE	3.33	6.95	5.09	65%	48%	73%		1.37	5.5	5.2									12,759	11,272	1,134				12,759	11,272	1,134
6/2/2015	TRUE	TRUE TRUE	FALSE	2.01	6.89	5.28	38% 64%	29% 50%	77%	MinAvg	1.30	5.5	5.2	279.00	250.00	0.02	24.44	12 211	11 470	1,076		12,759	11,272	1,120	12 211	11 470	1,076	12,759	11,272	1,120
6/3/2015 6/4/2015	TRUE TRUE	TRUE	FALSE FALSE	3.42 3.35	6.82 6.70	5.31 5.29	63%	50%	78% 79%		1.28 1.27	5.5 5.5	5.2 5.2	278.00	259.00	0.93		12,311	11,470			12,669 12,669	11,312 11,312	1,120 1,120	12,311	11,470		12,669 12,669	11,312 11,312	1,120 1,120
6/5/2015	TRUE	TRUE	TRUE	3.45	6.48	5.17	67%	53%	80%		1.25	5.5	5.2									12,669	11,312	1,120				12,669	11,312	1,120
6/6/2015 6/7/2015	TRUE TRUE	TRUE TRUE	FALSE FALSE	3.42 3.37	6.96 6.67	5.10 4.97	67% 68%	49% 51%	73% 75%		1.36 1.34	5.4 5.4	5.2 5.1									12,632 12,632	11,092 11,092	1,120 1,120				12,632 12,632	11,092 11,092	1,120 1,120
6/8/2015	TRUE	TRUE	FALSE	3.41	6.74	5.15	66%	51%	76%		1.31	5.4	5.2									12,632	11,092	1,120				12,632	11,092	1,120
6/9/2015	TRUE	TRUE	FALSE	3.38	6.55	5.18	65%	52%	79%		1.26	5.4	5.2	170.00	100.00							12,632	11,092	1,120				12,632	11,092	1,120
6/10/2015 6/11/2015	TRUE TRUE	TRUE TRUE	FALSE FALSE	3.39 3.44	6.55 6.43	5.28 5.20	64% 66%	52% 53%	81% 81%		1.24 1.24	5.4 5.4	5.2 5.2	178.00	120.00	0.67	27.25	7,838	5,284	1,182		11,673 11,673	9,930 9,930	1,120 1,132	7,838	5,284	1,182	11,673 11,673	9,930 9,930	1,120 1,132
6/12/2015	TRUE	TRUE	FALSE	3.50	6.41	5.10	69%	55%	80%		1.26	5.3	5.1				27.123			2,202		11,673	9,930	1,123			1,101	11,673	9,930	1,123
6/13/2015	TRUE	TRUE	FALSE	3.50	6.43	4.95	71%	54%	77%	MinAvg	1.30	5.3	5.1									11,121	9,644	1,123				11,121	9,644	1,123
6/14/2015 6/15/2015	TRUE TRUE	TRUE TRUE	FALSE FALSE	3.39 3.40	6.43 6.46	4.96 5.16	68% 66%	53% 53%	77% 80%		1.30 1.25	5.3 5.3	5.1 5.1									11,121 11,121	9,644 9,644	1,123 1,123				11,121 11,121	9,644 9,644	1,123 1,123
6/16/2015	TRUE	TRUE	FALSE	3.51	6.34	5.20	68%	55%	82%	MinMax	1.22	5.2	5.1									11,121	9,644	1,123				11,121	9,644	1,123
6/17/2015 6/18/2015	TRUE TRUE	TRUE TRUE	FALSE FALSE	3.52 3.41	6.51 6.49	5.24 5.19	67% 66%	54% 53%	80% 80%		1.24 1.25	5.2 5.2	5.2 5.1	250.00	216.00	0.86	25.89	10,925	9,440	1,121		11,082 11,082	9,603 9,603	1,123 1,123	10,925	9,440	1,121	11,082 11,082	9,603 9,603	1,123 1,123
6/19/2015	TRUE	TRUE	FALSE	3.48	6.33	5.19	67%	55%	82%	MinMax	1.22	5.2	5.1				23.83			1,121		11,082	9,603	1,104			1,121	11,082	9,603	1,123
6/20/2015	TRUE	TRUE	FALSE	3.47	6.49	5.02	69%	53%	77%		1.29	5.2	5.1									10,882	8,816	1,104				10,882	8,816	1,104
6/21/2015 6/22/2015	TRUE TRUE	TRUE TRUE	FALSE FALSE	3.40 3.45	6.52 6.55	4.98 5.23	68% 66%	52% 53%	76% 80%		1.31 1.25	5.2 5.2	5.1 5.1				27.92			1,218		10,882 10,882	8,816 8,816	1,104 1,127			1,218	10,882 10,882	8,816 8,816	1,104 1,127
6/23/2015	TRUE	TRUE	FALSE	3.50	6.47	5.21	67%	54%	81%		1.24	5.2	5.1				27.52			2,220		10,882	8,816	1,127			1,210	10,882	8,816	1,127
6/24/2015	TRUE	TRUE	FALSE	3.52	6.74	5.26	67%	52%	78%		1.28	5.2	5.2	301.00	252.00	0.84		13,204	11,055			11,346	9,264	1,127	13,204	11,055		11,346	9,264	1,127
6/25/2015 6/26/2015	TRUE TRUE	TRUE TRUE	FALSE FALSE	3.53 3.54	6.50 6.53	5.26 5.19	67% 68%	54% 54%	81% 79%		1.24 1.26	5.2 5.2	5.2 5.2									11,346 11,346	9,264 9,264	1,127 1,127				11,346 11,346	9,264 9,264	1,127 1,127
6/27/2015	TRUE	TRUE	FALSE	3.50	6.48	5.05	69%	54%	78%		1.28	5.2	5.2									11,070	9,312	1,127				11,070	9,312	1,127
6/28/2015 6/29/2015	TRUE TRUE	TRUE TRUE	FALSE FALSE	3.45 3.45	6.64 6.32	4.99 5.12	69% 67%	52% 55%	75% 81%		1.33 1.23	5.2 5.1	5.1 5.2				25.52			1,090		11,070 11,070	9,312 9,312	1,127 1,137			1,090	11,070 11,070	9,312 9,312	1,127 1,137
6/30/2015	TRUE	TRUE	FALSE	3.40	6.27	5.09	67%	54%	81%		1.23	5.1	5.2				23.32			1,000		11,070	9,312	1,137			1,000	11,070	9,312	1,137
7/1/2015	TRUE	TRUE	FALSE	3.55	6.55	5.19	68%	54%	79%		1.26	5.1	5.1	255.00	178.00	0.70		11,038	7,705			11,063	8,991	1,137	11,038	7,705		11,063	8,991	1,137
7/2/2015 7/3/2015	TRUE TRUE	TRUE TRUE	FALSE FALSE	3.43 3.45	6.47 6.85	5.10 5.05	67% 68%	53% 50%	79% 74%		1.27 1.36	5.1 5.1	5.1 5.1									11,063 11,063	8,991 8,991	1,137 1,152				11,063 11,063	8,991 8,991	1,137 1,152
7/4/2015	TRUE	TRUE	FALSE	3.44	6.13	4.71	73%	56%		inAvgMinM	1.30	5.1	5.1									10,751	8,371	1,152				10,751	8,371	1,152
7/5/2015	TRUE	TRUE	FALSE	3.34	6.16	4.75	70%	54%	77%	MinAvg	1.30	5.1	5.1									10,751	8,371	1,152				10,751	8,371	1,152
7/6/2015 7/7/2015	TRUE TRUE	TRUE TRUE	FALSE FALSE	3.41 3.22	6.56 6.49	5.22 5.18	65% 62%	52% 50%	80% 80%		1.26 1.25	5.1 5.1	5.1 5.1									10,751 10,751	8,371 8,371	1,152 1,152				10,751 10,751	8,371 8,371	1,152 1,152
7/8/2015	TRUE	TRUE	FALSE	3.39	6.52	5.21	65%	52%	80%		1.25	5.1	5.2	248.00	193.00	0.78		10,776	8,386			10,756	8,374	1,152	10,776	8,386		10,756	8,374	1,152
7/9/2015 7/10/2015	TRUE TRUE	TRUE TRUE	TRUE FALSE	3.34 3.31	6.78 6.93	5.25 5.24	64% 63%	49% 48%	77% 76%		1.29 1.32	5.2 5.2	5.2 5.2				30.45			1,333		10,756 10,756	8,374 8,374	1,189 1,189			1,333	10,756 10,756	8,374 8,374	1,189 1,189
7/10/2015	TRUE	TRUE	FALSE	3.43	6.55	5.00	69%	52%	76%		1.31	5.1	5.2									11,486	9,146	1,189				11,486	9,146	1,189
7/12/2015	TRUE	TRUE	FALSE	3.43	6.52	4.94	69%	53%	76%	MinAvg	1.32	5.1	5.2									11,486	9,146	1,190				11,486	9,146	1,190
7/13/2015 7/14/2015	TRUE TRUE	TRUE TRUE	FALSE FALSE	2.21 3.27	6.47 6.54	5.12 5.16	43% 63%	34% 50%	79% 79%		1.26 1.27	5.1 5.1	5.2 5.2									11,486 11,486	9,146 9,146	1,190 1,190				11,486 11,486	9,146 9,146	1,190 1,190
7/15/2015	TRUE	TRUE	FALSE	3.28	6.40	5.18	63%	51%	81%		1.24	5.1	5.2	272.00	225.00	0.83		11,751	9,720			11,539	9,261	1,190	11,751	9,720		11,539	9,261	1,190
7/16/2015	TRUE	TRUE	FALSE	3.42	6.42	5.14	67%	53%	80%		1.25	5.1	5.2				26.87			1,152		11,539	9,261	1,183			1,152	11,539	9,261	1,183

Process Proc												Diurnal				Influent		Influent										20 d Ava	20 d Ava	20 d Ava
1	Date	Butte	CSU	Dracin?				Min % of	Min % of	Avg % of		Diurnal Peak				Influent BOD	BOD/TSS	Influent NH3-N												
No.	Date	Break?	Break?	riecip:				Avg	Max	Max							Ratio													
Property	7/17/2015	TRUF	TRUF	FALSE	3.46	6.58	5.14	67%	53%	78%			5.1	5.1		6/ =		6/ -				11.539	9.261	1.183						
	7/18/2015	TRUE	TRUE	FALSE	3.41	6.42	4.87	70%	53%	76%	MinAvg	1.32	5.1	5.1								11,692	9,216	1,183				11,692	9,216	1,183
Professor Prof																						-	•					•	-	
140 140															259.00	208.00	0.80	27.50	11,211	9,003	1.150				11,211	9,003	4.450			
Property											INAVgiviinivi							27.50			1,158		•				1,158			
Professor Prof																							•						•	
																								-				•	-	-
Property	7/29/2015				3.46	6.37	5.04			79%			5.1		260.00	239.00	0.92		10,929	10,046				-	10,929	10,046		•	-	-
																		26.04			1,112						1,112			
March Marc																								•					-	-
Section Sect																								•						
Part																														
Property															277.00	212.00	0.77		11,897	9,106			•		11,897	9,106			-	
Property																		32.10			1,392		•				1,392			
Physical Property Phys																														
Final Fina																						-	•					•	-	•
1/2 1/2																												•		-
1.75 1.75															275.00	188 00	0.68		12 133	8 294					12 133	8 294				
14.1 14.2 14.3															273.00	100.00	0.00	24.95	12,133	0,234	1,082			-	12,133	0,234	1,082	•	-	•
											•													-				•	-	•
											inMaxAvgM																			•
8/19/10/20/20/20 1 NU																												•		•
																							•	•						
R-11 R-11 R-12 R-12 R-13 R-14															301.00	230.00	0.76	27.40	14,183	10,838	1 303				14,183	10,838	1 303			,
																		27.40			1,303		•				1,303		-	
																						-	•					•	-	
8/26/2015 FALSE FA																														
											AvgMax											-	•					•	-	-
FAISE FAISE FAISE FAISE FAISE FAISE THUR T															238.00	232.00	0.97		11,155	10,874					10,692	10,762				
FALSE FALS																		29.67			1,3/6						1,3/6			
	8/29/2015	FALSE	FALSE	TRUE			5.50																	-						-
FALSE FALSE FALSE FALSE FALSE FALSE S.30 7.89 5.99 5.99 5.99 4.28 7.28 1.38 5.4 5.6 2.6 7.0 0.62 13.120 0.62 13.120 13.29 12.498 9.48 1.28 1.320 8.12 1.29 1.240 9.76 1.28 9.76 1.28 9.77 1.28 9.77 1.28 9.77 1.28 9.77 1.28 9.78 9.78 1.28 9.78 9.78 1.28 9.78 9.78 1.28 9.78 9.78 1.28 9.7																														
9/2/2015 FALSE FAL																														
9/4/2015 FALSE FAL															276.00	171.00	0.62		13,120	8,129					13,120	8,129				
9/5/2015 FALSE FAL											inMaxAvgM							26.79			1,294						1,294			
9/6/2015 FALSE FALSE FALSE FALSE ALSE FALSE ALSE FALSE ALSE ALSE FALSE ALSE ALSE ALSE ALSE ALSE ALSE ALSE																														
9/8/2015 FALSE FAL																														
9/9/2015 FALSE FAL																														
9/10/2015 FALSE FA																														
9/12/2015 FALSE FA	9/10/2015	FALSE	FALSE	FALSE								1.45	5.5	5.5	296.00	175.00	0.59		13,948	8,246		12,908	9,276		13,948	8,246		12,815	9,254	
9/13/2015 FALSE																		27.16			1,298						1,298			
9/14/2015 FALSE FALSE FALSE FALSE SALSE																														
9/16/2015 FALSE FALSE TRUE 3.33 8.20 5.91 56% 41% 72% 1.39 5.6 5.7 325.00 266.00 0.82 16,019 13,111 13,685 10,240 1,317 16,019 13,111 13,593 10,217 1,317					3.39																		9,522							
											AvgMax				225.00	200.00	0.02		16.010	12.444					16.010	12 444				
	9/16/2015 9/17/2015	FALSE	FALSE	FALSE	3.33	13.36	5.91	56%	41% 25%		inMaxAvgM		5.6	5.7	325.00	266.00	0.82	31.21	16,019	13,111	1,512	13,685 13,685	10,240	1,317	16,019	13,111	1,512	13,593 13,593	10,217	1,317 1,356

											Diurnal				Influent		Influent											30-d Avg	30-d Avg	30-d Avg
Date	Butte	CSU	Precip?	Min Influent	Max Influent	Avg Influent	Min % of	Min % of	Avg % of	Flow Outlier	Peak		7-d Avg of Avg Flow,		BOD	BOD/TSS	NH3-N	Avg Inf TSS Load.	Avg Inf BOD Load.	Avg Inf NH3 Load,	Load Outlier	30-d Avg of TSS		30-d Avg of NH3-N				of non-SN	of non-SN	of non-SN
	Break?	Break?			d Flow, mgd		Avg	Max	Max	Туре	Factor (DPF)	Flow, mgd		mg/L	Conc., mg/L	Ratio	Conc., mg/L	ppd	ppd	ppd	Туре			Load, ppd		ppd	ppd	TSS Load, ppd	BOD Load, ppd	NH3-N Load, ppd
9/18/2015	FALSE	FALSE	FALSE	3.25	13.97	5.78	56%	23%		inMaxAvgM		5.6	5.7									13,685	10,240	1,356				13,593	10,217	1,356
9/19/2015 9/20/2015	FALSE FALSE	FALSE FALSE	FALSE FALSE	3.43 3.32	7.80 8.22	5.51 5.50	62% 60%	44% 40%	71% 67%		1.42 1.49	5.6 5.6	5.7 5.7									13,561 13,561	10,090 10,090	1,356 1,370				13,445 13,445	10,062 10,062	1,356 1,370
9/21/2015	FALSE	FALSE	FALSE	3.35	8.01	5.67	59%	42%	71%		1.41	5.6	5.7									13,561	10,090	1,370				13,445	10,062	1,370
9/22/2015 9/23/2015	FALSE FALSE	FALSE FALSE	FALSE FALSE	3.34 3.43	13.06 13.55	5.70 5.67	59% 60%	26% 25%	44% 42%	AvgMax AvgMax	2.29 2.39	5.6 5.6	5.6 5.6	257.00	251.00	0.98		12,153	11,869			13,561 13,279	10,090 10,446	1,370 1,370	12,153	11,869		13,445 13,186	10,062 10,423	1,370 1,370
9/23/2015	FALSE	FALSE	FALSE	3.40	8.20	5.61	61%	41%	68%	Avgiviax	1.46	5.6	5.6	237.00	231.00	0.56		12,133	11,809			13,279	10,446	1,370	12,133	11,809		13,186	10,423	1,370
9/25/2015	FALSE	FALSE	FALSE	3.47	7.84	5.56	62%	44%	71%		1.41	5.6	5.6									13,279	10,446	1,370				13,186	10,423	1,370
9/26/2015 9/27/2015	FALSE FALSE	FALSE FALSE	FALSE FALSE	3.30 3.36	7.78 13.88	5.34 5.53	62% 61%	42% 24%	69% 40%	inMaxAvgM	1.46 2.51	5.6 5.6	5.5 5.5									13,810 13,810	10,339 10,339	1,370 1,368				13,810 13,810	10,339 10,339	1,370 1,368
9/28/2015	FALSE	FALSE	FALSE	3.32	8.03	5.52	60%	41%	69%	military (vBivi	1.45	5.6	5.5									13,810	10,339	1,368				13,810	10,339	1,368
9/29/2015	FALSE	FALSE FALSE	FALSE	3.19	13.78	5.60	57%	23%		inMaxAvgM	2.46	5.6	5.5				33.13			1,547		13,810	10,339	1,413			1,547	13,810	10,339	1,413
9/30/2015 10/1/2015	FALSE FALSE	FALSE	FALSE TRUE	3.40 3.36	8.44 13.19	5.73 5.67	59% 59%	40% 25%	68% 43%	AvgMax	1.47 2.33	5.6 5.6	5.6 5.6									13,810 13,810	10,339 10,339	1,413 1,413				13,810 13,810	10,339 10,339	1,413 1,413
10/2/2015	FALSE	FALSE	FALSE	3.33	8.02	5.77	58%	42%	72%		1.39	5.6	5.6	252.00	345.00	1.37		12,127	16,602			13,473	11,591	1,413	12,127	16,602		13,473	11,591	1,413
10/3/2015 10/4/2015	FALSE FALSE	FALSE FALSE	FALSE FALSE	3.41 3.36	8.23 8.57	5.52 5.55	62% 61%	41% 39%	67% 65%		1.49 1.54	5.6 5.6	5.6 5.6									13,562 13,562	12,457 12,457	1,413 1,453				13,562 13,562	12,457 12,457	1,413 1,453
10/4/2015	FALSE	FALSE	FALSE	3.40	13.90	5.75	59%	24%		inMaxAvgM	2.42	5.6	5.6									13,562	12,457	1,453				13,562	12,457	1,453
10/6/2015	FALSE	FALSE	FALSE	3.37	8.31	5.67	59%	41%	68%		1.47	5.6	5.6									13,562	12,457	1,453				13,562	12,457	1,453
10/7/2015 10/8/2015	FALSE FALSE	FALSE FALSE	FALSE FALSE	3.38 3.34	8.12 8.34	5.70 5.72	59% 58%	42% 40%	70% 69%		1.42 1.46	5.6 5.6	5.7 5.7	279.00	232.00	0.83	28.20	13,263	11,029	1,345		13,502 13,502	12,171 12,171	1,453 1,426	13,263	11,029	1,345	13,502 13,502	12,171 12,171	1,453 1,426
10/9/2015	FALSE	FALSE	FALSE	3.44	8.16	5.74	60%	42%	70%		1.42	5.6	5.7				20.20			1,545		13,502	12,171	1,426			1,545	13,502	12,171	1,426
10/10/2015	FALSE	FALSE	FALSE	3.42	8.43	5.52	62%	41%	65%		1.53	5.6	5.6									13,502	12,171	1,426				13,502	12,171	1,426
10/11/2015 10/12/2015	FALSE FALSE	FALSE FALSE	FALSE FALSE	3.38 3.38	8.30 8.39	5.51 5.69	61% 59%	41% 40%	66% 68%		1.51 1.47	5.6 5.6	5.6 5.7									13,390 13,390	13,153 13,153	1,426 1,468				13,390 13,390	13,153 13,153	1,426 1,468
10/13/2015	FALSE	FALSE	FALSE	3.35	8.18	5.67	59%	41%	69%		1.44	5.6	5.7									13,390	13,153	1,468				13,390	13,153	1,468
10/14/2015	FALSE	FALSE	FALSE	3.40	8.66	5.67	60%	39%	65%		1.53	5.6	5.7	236.00	174.00	0.74	22.20	11,160	8,228	4.547		12,944	12,168	1,468	11,160	8,228	4 547	12,944	12,168	1,468
10/15/2015 10/16/2015	FALSE FALSE	FALSE FALSE	FALSE FALSE	3.36 3.36	8.11 8.15	5.63 5.66	60% 59%	41% 41%	69% 69%		1.44 1.44	5.6 5.6	5.6 5.6				32.30			1,517		12,944 12,944	12,168 12,168	1,480 1,480			1,517	12,944 12,944	12,168 12,168	1,480 1,480
10/17/2015	FALSE	FALSE	TRUE	3.35	8.50	5.54	60%	39%	65%		1.53	5.6	5.6									12,176	11,932	1,480				12,176	11,932	1,480
10/18/2015	FALSE FALSE	FALSE FALSE	FALSE TRUE	3.33 3.40	8.66 13.70	5.59	60%	38% 25%	65%	in May Aya M	1.55	5.6	5.6 5.6									12,176	11,932	1,470				12,176	11,932	1,470
10/19/2015 10/20/2015	FALSE	FALSE	FALSE	3.36	8.49	5.78 5.70	59% 59%	40%	42% 67%	inMaxAvgM	2.37 1.49	5.6 5.6	5.6									12,176 12,176	11,932 11,932	1,470 1,470				12,176 12,176	11,932 11,932	1,470 1,470
10/21/2015	FALSE	FALSE	FALSE	3.38	8.52	5.75	59%	40%	67%		1.48	5.6	5.6	281.00	236.00	0.84		13,475	11,317			12,436	11,809	1,470	13,475	11,317		12,436	11,809	1,470
10/22/2015 10/23/2015	FALSE FALSE	FALSE FALSE	FALSE FALSE	3.36 3.40	8.17 8.24	5.69 5.73	59% 59%	41% 41%	70% 70%		1.44 1.44	5.6 5.6	5.7 5.7									12,436 12,436	11,809 11,809	1,470 1,470				12,436 12,436	11,809 11,809	1,470 1,470
10/24/2015	FALSE	FALSE	FALSE	3.35	8.72	5.54	60%	38%	64%		1.57	5.6	5.6									12,506	11,794	1,470				12,506	11,794	1,470
10/25/2015	FALSE	FALSE	FALSE	3.35	8.63	5.57	60%	39%	65%		1.55	5.6	5.7									12,506	11,794	1,470				12,506	11,794	1,470
10/26/2015 10/27/2015	FALSE FALSE	FALSE FALSE	FALSE FALSE	3.33 3.36	8.35 8.17	5.68 5.69	59% 59%	40% 41%	68% 70%		1.47 1.44	5.6 5.6	5.7 5.7									12,506 12,506	11,794 11,794	1,470 1,470				12,506 12,506	11,794 11,794	1,470 1,470
10/28/2015	FALSE	FALSE	TRUE	3.38	8.45	5.69	59%	40%	67%		1.49	5.6	5.7	296.00	238.00	0.80		14,047	11,294			12,814	11,694	1,470	14,047	11,294		12,814	11,694	1,470
10/29/2015	FALSE	FALSE	FALSE	3.34	8.20	5.75	58%	41%	70%		1.43	5.7	5.7				32.05			1,537		12,814	11,694	1,487			1,537	12,814	11,694	1,487
10/30/2015 10/31/2015	FALSE FALSE	FALSE FALSE	FALSE FALSE	3.38 3.40	8.20 9.21	5.80 5.75	58% 59%	41% 37%	71% 62%		1.41 1.60	5.7 5.7	5.7 5.7									12,814 12,814	11,694 11,694	1,466 1,466				12,814 12,814	11,694 11,694	1,466 1,466
11/1/2015	FALSE	FALSE	TRUE	3.35	8.92	5.73	58%	38%	64%		1.56	5.7	5.7									12,814	11,694	1,466				12,814	11,694	1,466
11/2/2015 11/3/2015	FALSE	FALSE	TRUE	3.43	9.06	6.00	57%	38%	66%		1.51	5.7	5.8									12,986	10,467	1,466				12,986	10,467	1,466
11/3/2015	FALSE FALSE	FALSE FALSE	FALSE TRUE	3.26 3.39	9.06 9.04	6.03 5.90	54% 57%	36% 38%	67% 65%		1.50 1.53	5.7 5.7	5.8 5.8				31.89			1,569		12,986 12,986	10,467 10,467	1,466 1,492			1,569	12,986 12,986	10,467 10,467	1,466 1,492
11/5/2015	FALSE	FALSE	FALSE	3.44	8.60	5.83	59%	40%	68%		1.48	5.7	5.8	266.00	267.00	1.00		12,934	12,982			12,976	10,970	1,492	12,934	12,982		12,976	10,970	1,492
11/6/2015 11/7/2015	FALSE FALSE	FALSE FALSE	FALSE FALSE	3.47 3.42	8.67 8.69	5.83 5.64	60% 61%	40% 39%	67% 65%		1.49 1.54	5.7 5.7	5.9 5.8									12,976 12,904	10,970 10,955	1,492 1,492				12,976 12,904	10,970 10,955	1,492 1,492
11/8/2015	FALSE	FALSE	TRUE	3.42	9.08	5.76	59%	37%	63%		1.54	5.7	5.8									12,904	10,955	1,492				12,904	10,955	1,492
11/9/2015	FALSE	FALSE	TRUE	3.42	8.79	5.99	57%	39%	68%		1.47	5.7	5.9									12,904	10,955	1,541				12,904	10,955	1,541
11/10/2015 11/11/2015	FALSE FALSE	FALSE FALSE	TRUE FALSE	3.45 3.48	8.65 8.80	5.81 5.86	59% 59%	40% 40%	67% 67%		1.49 1.50	5.7 5.7	5.8 5.8									12,904 12,904	10,955 10,955	1,541 1,541				12,904 12,904	10,955 10,955	1,541 1,541
11/12/2015	FALSE	FALSE	FALSE	3.42	8.32	5.74	60%	41%	69%		1.45	5.7	5.8				28.40			1,360		12,904	10,955	1,496			1,360	12,904	10,955	1,496
11/13/2015	FALSE	FALSE	FALSE	3.43	9.61	5.83	59%	36%	61%		1.65	5.7	5.8	284.00	190.00	0.67		13,809	9,238			13,085	10,612	1,496	13,809	9,238		13,085	10,612	1,496
11/14/2015 11/15/2015	FALSE FALSE	FALSE FALSE	FALSE TRUE	3.47 3.43	8.98 9.68	5.74 6.05	60% 57%	39% 35%	64% 63%		1.56 1.60	5.7 5.8	5.8 5.8									13,566 13,566	11,208 11,208	1,496 1,489				13,566 13,566	11,208 11,208	1,496 1,489
11/16/2015	FALSE	FALSE	FALSE	5.45	8.65	6.00	37,70	3370		inAvgMinM	1.44	5.8	5.9									13,566	11,208	1,489				13,566	11,208	1,489
11/17/2015	FALSE	FALSE	FALSE	3.46	8.55	6.00	58%	40%	70%		1.43	5.8	5.9	257.00	224.00	0.00		12.646	14.267			13,566	11,208	1,489	12.646	14.267		13,566	11,208	1,489
11/18/2015 11/19/2015	FALSE FALSE	FALSE FALSE	FALSE FALSE	3.41 3.47	8.85 16.23	5.90 5.89	58% 59%	39% 21%	67% 36%	inMaxAvgM	1.50 2.76	5.8 5.8	5.9 5.9	257.00	231.00	0.90	27.40	12,646	11,367	1,346		13,382 13,382	11,240 11,240	1,489 1,453	12,646	11,367	1,346	13,382 13,382	11,240 11,240	1,489 1,453

				Min	Max	Avg				Flow	Diurnal	30-d Avg	7-d Avg of	Influent	Influent	/	Influent	Avg Inf	Avg Inf	Avg Inf	Load	30-d Avg	30-d Avg	30-d Avg	non-SN	non-SN	non-SN		30-d Avg	_
Date	Butte Break?	CSU Break?	Precip?	Influent		Influent	Min % of Avg	Min % of Max	Avg % of Max	Outlier	Peak Factor			TSS Conc.,	BOD Conc.,	BOD/TSS Ratio	NH3-N Conc.,	TSS Load,	BOD Load,		Outlier	of TSS	of BOD			BOD Load,			of non-SN BOD Load,	
				Flow, mgd	d Flow, mgd	i Flow, mga				Type	(DPF)	Flow, mgd	mgd	mg/L	mg/L		mg/L	ppd	ppa	ppd	Туре	Load, ppd	Load, ppd	Load, ppd	ppd	ppd	ppd	ppd	ppd	Load, ppd
11/20/2015	FALSE	TRUE	FALSE	3.37	8.24	5.74	59%	41%	70%		1.44	5.8	5.9									13,382	11,240	1,453				13,382	11,240	1,453
11/21/2015 11/22/2015	FALSE FALSE	TRUE TRUE	FALSE FALSE	3.40 3.42	8.67 11.27	5.51 5.31	62% 64%	39% 30%	64% 47%	AvgMax	1.57 2.12	5.8 5.8	5.8 5.8									13,359 13,359	11,220 11,220	1,453 1,453				13,359 13,359	11,220 11,220	1,453 1,453
11/23/2015	FALSE	TRUE	FALSE	3.43	10.67	5.39	64%	32%	51%	AvgMax	1.98	5.8	5.8									13,359	11,220	1,453				13,359	11,220	1,453
11/24/2015 11/25/2015	FALSE TRUE	TRUE TRUE	FALSE FALSE	3.49 3.43	7.52 8.08	5.42 5.49	64% 62%	46% 42%	72% 68%		1.39 1.47	5.8 5.8	5.7 5.6	283.00	241.00	0.85		12,958	11,035			13,359 13,278	11,220 11,183	1,453 1,453	12,958	11,035		13,359 13,278	11,220 11,183	1,453 1,453
11/26/2015	TRUE	TRUE	FALSE	3.40	8.38	5.07	67%	41%	61%		1.65	5.8	5.4	200.00	2.11.00	0.00		12,550	11,000			13,278	11,183	1,453	12,330	12,000		13,278	11,183	1,453
11/27/2015 11/28/2015	TRUE TRUE	TRUE TRUE	FALSE FALSE	3.42 3.36	7.49 7.84	4.96 5.20	69% 65%	46% 43%	66% 66%		1.51 1.51	5.7 5.7	5.4 5.3									13,278 13,086	11,183 11,155	1,453 1,453				13,278 13,086	11,183 11,155	1,453 1,453
11/29/2015	TRUE	TRUE	FALSE	3.32	8.49	5.47	61%	39%	64%		1.55	5.7	5.3									13,086	11,155	1,425				13,086	11,155	1,425
11/30/2015	TRUE	TRUE	FALSE	3.39	8.33	5.74	59%	41%	69%		1.45	5.7	5.3									13,086	11,155	1,425				13,086	11,155	1,425
12/1/2015 12/2/2015	FALSE FALSE	FALSE FALSE	FALSE FALSE	3.42 3.43	8.32 8.07	5.72 5.71	60% 60%	41% 43%	69% 71%		1.45 1.41	5.7 5.7	5.4 5.4	299.00	265.00	0.89		14,239	12,620			13,086 13,317	11,155 11,448	1,425 1,425	14,239	12,620		13,086 13,317	11,155 11,448	1,425 1,425
12/3/2015	FALSE	FALSE	TRUE	3.45	8.23	5.80	59%	42%	70%		1.42	5.7	5.5				33.00	,	,	1,596		13,317	11,448	1,468	,	,	1,596	13,317	11,448	1,468
12/4/2015 12/5/2015	FALSE FALSE	FALSE FALSE	FALSE FALSE	3.46 3.44	8.22 8.84	5.79 5.70	60% 60%	42% 39%	70% 64%		1.42 1.55	5.7 5.7	5.5 5.6									13,317 13,317	11,448 11,448	1,468 1,434				13,317 13,317	11,448 11,448	1,468 1,434
12/6/2015	FALSE	FALSE	TRUE	3.43	9.07	5.76	60%	38%	64%		1.57	5.7	5.7									13,413	11,065	1,434				13,413	11,065	1,434
12/7/2015	FALSE FALSE	FALSE FALSE	TRUE TRUE	3.40 3.43	8.28	5.80	59%	41% 43%	70%		1.43	5.7	5.8 5.8									13,413	11,065	1,434				13,413	11,065	1,434
12/8/2015 12/9/2015	FALSE	FALSE	TRUE	3.43	7.99 8.26	5.79 5.88	59% 57%	43%	72% 71%		1.38 1.40	5.7 5.7	5.8	318.00	216.00	0.68		15,594	10,592			13,413 13,849	11,065 10,970	1,434 1,434	15,594	10,592		13,413 13,849	11,065 10,970	1,434 1,434
12/10/2015	FALSE	FALSE	TRUE	3.38	8.39	5.98	57%	40%	71%		1.40	5.7	5.8				29.90			1,491		13,849	10,970	1,448			1,491	13,849	10,970	1,448
12/11/2015 12/12/2015	FALSE FALSE	FALSE FALSE	FALSE FALSE	3.45 3.42	8.29 9.13	5.89 5.78	59% 59%	42% 37%	71% 63%		1.41 1.58	5.7 5.7	5.8 5.8									13,849 13,849	10,970 10,970	1,448 1,448				13,849 13,849	10,970 10,970	1,448 1,448
12/13/2015	FALSE	FALSE	TRUE	3.39	9.65	5.99	57%	35%	62%		1.61	5.7	5.9									13,849	10,970	1,478				13,849	10,970	1,478
12/14/2015	FALSE	FALSE	FALSE	3.45	8.66	6.08	57%	40%	70%		1.42	5.7	5.9									13,859	11,403	1,478				13,859	11,403	1,478
12/15/2015 12/16/2015	FALSE FALSE	FALSE FALSE	FALSE FALSE	3.45 3.46	8.57 8.42	6.01 5.90	57% 59%	40% 41%	70% 70%		1.43 1.43	5.7 5.7	5.9 5.9	618.00	484.00	0.78		30,409	23,816		TSS	13,859 13,859	11,403 13,886	1,478 1,478	30,409	23,816		13,859 13,859	11,403 13,886	1,478 1,478
12/17/2015	FALSE	FALSE	FALSE	3.45	8.28	5.87	59%	42%	71%		1.41	5.7	5.9				28.50			1,395		13,859	13,886	1,457			1,395	13,859	13,886	1,457
12/18/2015 12/19/2015	TRUE TRUE	TRUE TRUE	TRUE TRUE	3.41 4.33	9.22 10.68	6.28 7.28	54% 59%	37% 41%	68% 68%		1.47 1.47	5.7 5.8	6.0 6.1									13,859 14,264	13,886 14,516	1,457 1,457				13,859 14,264	13,886 14,516	1,457 1,457
12/20/2015	TRUE	TRUE	TRUE	3.64	16.48	6.29	58%	22%		inMaxAvgM	2.62	5.8	6.2									14,264	14,516	1,494				14,264	14,516	1,494
12/21/2015 12/22/2015	TRUE TRUE	TRUE TRUE	TRUE TRUE	4.10 4.04	10.15 9.45	6.71 6.61	61% 61%	40% 43%	66% 70%		1.51 1.43	5.8 5.8	6.3 6.4				16.80			926		14,264 14,264	14,516 14,516	1,494 1,352			926	14,264 14,264	14,516 14,516	1,494 1,352
12/23/2015	TRUE	TRUE	FALSE	3.73	8.93	6.13	61%	42%	69%		1.46	5.9	6.4	207.00	170.00	0.82	10.80	10,583	8,691	320		13,343	13,351	1,352	10,583	8,691	320	13,343	13,351	1,352
12/24/2015	TRUE	TRUE	TRUE	3.55	8.80	5.80	61%	40%	66%		1.52	5.9	6.4									13,343	13,351	1,352				13,343	13,351	1,352
12/25/2015 12/26/2015	TRUE TRUE	TRUE TRUE	TRUE FALSE	3.47 3.40	7.27 7.95	4.95 5.22	70% 65%	48% 43%	68% 66%	MinAvg	1.47 1.52	5.9 5.9	6.5 6.3									13,343 13,472	13,351 13,930	1,352 1,352				13,343 13,472	13,351 13,930	1,352 1,352
12/27/2015	TRUE	TRUE	FALSE	3.41	8.13	5.32	64%	42%	65%		1.53	5.9	6.0									13,472	13,930	1,352				13,472	13,930	1,352
12/28/2015 12/29/2015	TRUE TRUE	TRUE TRUE	TRUE FALSE	3.46 3.48	8.10 7.81	5.51 5.46	63% 64%	43% 45%	68% 70%		1.47 1.43	5.9 5.9	5.9 5.7									13,472 13,472	13,930 13,930	1,352 1,352				13,472 13,472	13,930 13,930	1,352 1,352
12/30/2015	TRUE	TRUE	FALSE	3.44	7.66	5.34	64%	45%	70%		1.43	5.9	5.5	287.00	253.00	0.88		12,782	11,268			13,299	13,397	1,352	12,782	11,268		13,299	13,397	1,352
12/31/2015	TRUE	TRUE	FALSE	3.37	8.09	5.45	62%	42%	67%		1.48	5.9	5.4				28.00			1,273		13,299	13,397	1,336			1,273	13,299	13,397	1,336
1/1/2016 1/2/2016	TRUE TRUE	TRUE TRUE	FALSE FALSE	3.38 3.37	7.38 8.11	4.97 5.17	68% 65%	46% 42%	67% 64%		1.48 1.57	5.9 5.8	5.3 5.3									13,299 12,986	13,397 13,592	1,336 1,336				13,299 12,986	13,397 13,592	1,336 1,336
1/3/2016	TRUE	TRUE	FALSE	3.33	8.23	5.46	61%	40%	66%		1.51	5.8	5.3									12,986	13,592	1,271				12,986	13,592	1,271
1/4/2016 1/5/2016	TRUE TRUE	TRUE TRUE	TRUE TRUE	3.23 3.50	7.65 10.81	5.40 7.54	60% 46%	42% 32%	71% 70%		1.42 1.43	5.8 5.9	5.3 5.6									12,986 12,986	13,592 13,592	1,271 1,271				12,986 12,986	13,592 13,592	1,271 1,271
1/6/2016	TRUE	TRUE	TRUE	3.93	11.36	8.40	47%	35%	74%		1.35	6.0	6.0	224.00	183.00	0.82		15,693	12,820			13,663	13,437	1,271	15,693	12,820		13,663	13,437	1,271
1/7/2016	TRUE	TRUE	TRUE	5.10	10.83	8.19	62%	47%	76%	in May Aven 4	1.32	6.0	6.3				10.84			740		13,663	13,437	1,165			740	13,663	13,437	1,165
1/8/2016 1/9/2016	TRUE TRUE	TRUE TRUE	FALSE TRUE	3.86 3.56	18.52 10.06	6.91 6.42	56% 55%	21% 35%	64%	inMaxAvgM	2.68 1.57	6.1 6.1	6.4 6.7									13,663 13,019	13,437 14,149	1,165 1,165				13,663 13,019	13,437 14,149	1,165 1,165
1/10/2016	TRUE	TRUE	FALSE	3.36	9.34	6.12	55%	36%	66%		1.53	6.1	6.8									13,019	14,149	1,084				13,019	14,149	1,084
1/11/2016 1/12/2016	TRUE TRUE	TRUE TRUE	FALSE FALSE	3.37 3.27	8.93 8.48	6.20 5.90	54% 55%	38% 39%	69% 70%		1.44 1.44	6.1 6.1	6.9 7.0									13,019 13,019	14,149 14,149	1,084 1,084				13,019 13,019	14,149 14,149	1,084 1,084
1/13/2016	TRUE	TRUE	TRUE	3.58	9.83	6.80	53%	36%	69%		1.45	6.1	6.9	229.00	230.00	1.00		12,987	13,044			13,013	13,928	1,084	12,987	13,044		13,011	13,928	1,084
1/14/2016	TRUE	TRUE	TRUE	3.52	9.91	6.74	52% EE%	36%	68%		1.47	6.2	6.6				15.40			866		13,011	13,928	1,040			866	13,011	13,928	1,040
1/15/2016 1/16/2016	TRUE TRUE	TRUE TRUE	TRUE TRUE	3.80 3.80	9.84 11.05	6.94 7.18	55% 53%	39% 34%	71% 65%		1.42 1.54	6.2 6.2	6.4 6.5									13,011 13,011	13,928 11,456	1,040 1,040				13,011 13,011	13,928 11,456	1,040 1,040
1/17/2016	TRUE	TRUE	TRUE	3.86	13.38	8.55	45%	29%	64%		1.56	6.3	6.8									13,011	11,456	951				13,011	11,456	951
1/18/2016 1/19/2016	TRUE TRUE	TRUE TRUE	TRUE TRUE	8.24 5.24	13.62 13.82	10.87 10.12	76% 52%	60% 38%	80% 73%	inAvgMinM	1.25 1.37	6.3 6.4	6.9 7.5									13,011 13,011	11,456 11,456	951 951				13,011 13,011	11,456 11,456	951 951
1/20/2016	TRUE	TRUE	FALSE	5.36	11.43	8.70	62%	47%	76%		1.31	6.5	7.9									13,011	11,456	951				13,011	11,456	951
1/21/2016	TRUE	TRUE	TRUE	4.26	10.53	7.74	55%	40%	74%		1.36	6.5	8.0				15.80			1,020		13,011	11,456	965			1,020	13,011	11,456	965

				D.O.	Danie	Aum				Fla	Diurnal	20 d Av.	7 d 0.00 of	i inflorent	Influent		Influent	Ava laf	Ave Inf	Ave Inf	Lood	20 d A	20 d Av.	20 d Av.	non CN	non CN	non CNI	30-d Avg	30-d Avg	30-d Avg
Date	Butte Break?	CSU Break?	Precip?	Min Influent	Max Influent	Avg Influent	Min % of Avg	Min % of Max	Avg % of Max	Flow Outlier	Peak Factor	30-d Avg of Avg		TSS Conc.,	BOD Conc	BOD/TSS Ratio	NH3-N Conc.,	Avg Inf TSS Load,	Avg Inf BOD Load,	Avg Inf NH3 Load,	Load Outlier	of TSS				non-SN BOD Load,			of non-SN BOD Load,	
	Dreum.	Dream.		Flow, mgd	Flow, mgd	Flow, mgd	, ··• b	iviax	max	Туре	(DPF)	Flow, mgd	mgd	mg/L	mg/L	natio	mg/L	ppd	ppd	ppd	Туре	Load, ppd	Load, ppd	Load, ppd	ppd	ppd	ppd	ppd	ppd	Load, ppd
1/22/2016	TRUE	TRUE	TRUE	4.07	10.58	8.08	50%	38%	76%		1.31	6.6	8.2	204.00	180.00	0.88		13,747	12,130			13,158	11,590	975	13,747	12,130		13,158	11,590	975
1/23/2016 1/24/2016	TRUE TRUE	TRUE TRUE	TRUE TRUE	5.66 4.33	11.90 10.95	8.98 8.13	63% 53%	48% 40%	75% 74%		1.33 1.35	6.7 6.8	8.5 8.6									13,802 13,802	12,315 12,315	975 975				13,802 13,802	12,315 12,315	975 975
1/25/2016 1/26/2016	TRUE FALSE	TRUE FALSE	TRUE FALSE	3.88 3.79	10.91 10.68	7.68 7.36	51% 51%	36% 35%	70% 69%		1.42 1.45	6.8 6.9	8.5 8.3									13,802 13,802	12,315 12,315	975 975				13,802 13,802	12,315 12,315	975 975
1/27/2016	FALSE	FALSE	FALSE	3.56	10.36	6.95	51%	34%	67%		1.49	6.9	8.0	213.00	229.00	1.08		12,346	13,274			13,511	12,507	975	12,346	13,274		13,511	12,507	975
1/28/2016 1/29/2016	FALSE FALSE	FALSE FALSE	TRUE TRUE	3.52 3.52	9.91 9.57	6.80 6.82	52% 52%	36% 37%	69% 71%		1.46 1.40	7.0 7.0	7.7 7.6				21.10			1,197		13,511 13,511	12,507 12,507	1,019 1,019			1,197	13,511 13,511	12,507 12,507	1,019 1,019
1/30/2016	FALSE	FALSE	TRUE	3.65	10.38	7.06	52%	35%	68%		1.47	7.1	7.5									13,693	12,817	1,019				13,693	12,817	1,019
1/31/2016 2/1/2016	FALSE FALSE	FALSE FALSE	TRUE FALSE	3.49 3.40	10.92 10.07	6.92 6.75	50% 50%	32% 34%	63% 67%		1.58 1.49	7.1 7.2	7.2 7.0									13,693 13,693	12,817 12,817	956 956				13,693 13,693	12,817 12,817	956 956
2/2/2016	FALSE	FALSE	FALSE	3.42	9.55	6.53	52%	36%	68%		1.46	7.2	6.9									13,693	12,817	956				13,693	12,817	956
2/3/2016 2/4/2016	FALSE FALSE	FALSE FALSE	FALSE FALSE	3.36 3.32	9.37 9.37	6.40 6.31	53% 53%	36% 35%	68% 67%		1.46 1.48	7.3 7.3	6.8 6.7	261.00	302.00	1.16		13,735	15,893			13,693 13,702	12,817 13,432	956 956	13,735	15,893		13,693 13,702	12,817 13,432	956 956
2/5/2016	FALSE	FALSE	FALSE	3.21	9.18	6.22	52%	35%	68%		1.48	7.3	6.6	201.00	302.00	1.10		13,733	13,833			13,702	13,432	956	13,733	13,633		13,702	13,432	956
2/6/2016 2/7/2016	FALSE FALSE	FALSE FALSE	FALSE FALSE	3.24 3.23	9.60 10.03	6.05	54% 55%	34% 32%	63% 59%		1.59 1.69	7.2 7.1	6.5 6.4									13,204 13,204	13,585 13,585	956 1,027				13,204 13,204	13,585 13,585	956 1,027
2/8/2016	FALSE	FALSE	FALSE	3.16	8.94	5.92 6.02	52%	35%	67%		1.49	7.1	6.3									13,204	13,585	1,027				13,204	13,585	1,027
2/9/2016	FALSE	FALSE	FALSE	3.20	8.88	6.04	53%	36%	68%		1.47	7.1	6.2	226.00	141.00	0.63		11 150	C 0C2			13,204	13,585	1,027	11 150	C 0C2		13,204	13,585	1,027
2/10/2016 2/11/2016	FALSE FALSE	FALSE FALSE	FALSE FALSE	3.20 3.19	8.73 8.79	5.92 5.85	54% 55%	37% 36%	68% 67%		1.47 1.50	7.1 7.0	6.1 6.0	226.00	141.00	0.62		11,158	6,962			12,795 12,795	12,260 12,260	1,027 1,027	11,158	6,962		12,795 12,795	12,260 12,260	1,027 1,027
2/12/2016	FALSE	FALSE	FALSE	3.20	8.95	5.89	54%	36%	66%		1.52	7.0	6.0									12,795	12,260	1,027				12,795	12,260	1,027
2/13/2016 2/14/2016	FALSE FALSE	FALSE FALSE	FALSE FALSE	3.16 3.12	9.27 8.97	5.66 5.56	56% 56%	34% 35%	61% 62%		1.64 1.61	7.0 7.0	5.9 5.9									12,747 12,747	12,064 12,064	1,027 1,108				12,747 12,747	12,064 12,064	1,027 1,108
2/15/2016	FALSE	FALSE	FALSE	3.11	8.88	5.79	54%	35%	65%		1.53	6.9	5.8									12,747	12,064	1,108				12,747	12,064	1,108
2/16/2016 2/17/2016	FALSE FALSE	FALSE FALSE	FALSE TRUE	3.17 3.14	8.58 9.51	5.76 5.89	55% 53%	37% 33%	67% 62%		1.49 1.61	6.9 6.8	5.8 5.8	274.00	327.00	1.19		13,460	16,063			12,747 12,889	12,064 12,864	1,108 1,108	13,460	16,063		12,747 12,889	12,064 12,864	1,108 1,108
2/18/2016	FALSE	FALSE	TRUE	3.25	9.42	6.14	53%	35%	65%		1.53	6.8	5.8					,	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			12,889	12,864	1,108	,	.,		12,889	12,864	1,108
2/19/2016 2/20/2016	FALSE FALSE	FALSE FALSE	TRUE FALSE	3.24 3.22	8.65 9.60	6.08 5.96	53% 54%	37% 34%	70% 62%		1.42 1.61	6.6 6.6	5.8 5.9									12,889 12,889	12,864 12,864	1,108 1,108				12,889 12,889	12,864 12,864	1,108 1,108
2/21/2016	FALSE	FALSE	FALSE	3.16	9.40	5.93	53%	34%	63%		1.59	6.5	5.9									12,889	12,864	1,197				12,889	12,864	1,197
2/22/2016 2/23/2016	FALSE FALSE	FALSE FALSE	FALSE FALSE	3.17 3.25	8.79 9.01	5.94 5.94	53% 55%	36% 36%	68% 66%		1.48 1.52	6.4 6.3	5.9 6.0									12,675 12,675	13,048 13,048	1,197 1,197				12,675 12,675	13,048 13,048	1,197 1,197
2/24/2016	FALSE	FALSE	FALSE	3.23	9.09	5.92	55%	36%	65%		1.54	6.3	6.0	236.00	194.00	0.82		11,652	9,578			12,470	12,354	1,197	11,652	9,578		12,470	12,354	1,197
2/25/2016 2/26/2016	FALSE FALSE	FALSE FALSE	FALSE FALSE	3.21 3.16	8.60 8.51	5.81 5.75	55% 55%	37% 37%	68% 68%		1.48 1.48	6.2 6.1	6.0 5.9									12,470 12,470	12,354 12,354	1,197 1,197				12,470 12,470	12,354 12,354	1,197 1,197
2/27/2016	FALSE	FALSE	FALSE	3.12	9.20	5.71	55%	34%	62%		1.61	6.1	5.9									12,501	12,124	1,197				12,501	12,124	1,197
2/28/2016 2/29/2016	FALSE FALSE	FALSE FALSE	FALSE FALSE	3.12 3.09	9.00 8.69	5.70 5.74	55% 54%	35% 36%	63% 66%		1.58 1.51	6.1 6.0	5.8 5.8									12,501 12,501	12,124 12,124					12,501 12,501	12,124 12,124	
3/1/2016	FALSE	FALSE	FALSE	3.14	8.33	5.68	55%	38%	68%		1.47	6.0	5.8									12,501	12,124					12,501	12,124	
3/2/2016	FALSE	FALSE FALSE	FALSE TRUE	3.13	8.55	5.76	54% 55%	37% 37%	67%		1.48	6.0	5.8	319.00	239.00	0.75	20.00	15,324	11,481	1,396		13,066	11,995	1 206	15,324	11,481	1 206	13,066	11,995	1 206
3/3/2016 3/4/2016	FALSE FALSE	FALSE	TRUE	3.16 3.16	8.44 8.39	5.77 5.82	55% 54%	38%	68% 69%		1.46 1.44	5.9 5.9	5.7 5.7				29.00			1,396		13,066 13,066	11,995 11,995	1,396 1,396			1,396	13,066 13,066	11,995 11,995	1,396 1,396
3/5/2016	FALSE	FALSE	TRUE	3.27	10.68	6.61	49%	31%	62%		1.62	5.9	5.8									13,066	11,995	1,396				13,066	11,995	1,396
3/6/2016 3/7/2016	FALSE FALSE	FALSE FALSE	TRUE TRUE	5.25 8.80	11.84 16.65	9.16 12.75	57% 69%	44% 53%	77% 77%		1.29 1.31	6.0 6.2	6.3 7.2									12,899 12,899	11,021 11,021	1,396 1,396				12,899 12,899	11,021 11,021	1,396 1,396
3/8/2016	FALSE	FALSE	FALSE	6.20	13.27	9.82	63%	47%	74%		1.35	6.3	7.7									12,899	11,021	1,396				12,899	11,021	1,396
3/9/2016 3/10/2016	FALSE FALSE	FALSE FALSE	TRUE TRUE	4.84 4.39	11.50 15.06	8.55 10.17	57% 43%	42% 29%	74% 68%		1.35 1.48	6.4 6.6	8.0 8.6				26.40			2,239	NH3	12,899 12,899	11,021 11,021	1,396 1,396			2,239	12,899 12,899	11,021 11,021	1,396 1,396
3/11/2016	FALSE	TRUE	TRUE	9.01	16.18	12.91	70%	56%		nAvgMinM	1.25	6.6	9.0									12,899	11,021	1,396				12,899	11,021	1,396
3/12/2016 3/13/2016	FALSE FALSE	TRUE TRUE	TRUE TRUE	6.93 7.59	13.88 13.37	11.14 10.72	62% 71%	50% 57%	80% 80%	nAvgMinM	1.25 1.25	6.7 6.8	9.7 10.3									13,479 13,479	12,374 12,374	1,396 1,396				13,479 13,479	12,374 12,374	1,396 1,396
3/14/2016	FALSE	TRUE	FALSE	6.41	12.20	9.73	66%	53%	80%	3	1.25	6.9	10.4									13,479	12,374	1,396				13,479	12,374	1,396
3/15/2016 3/16/2016	FALSE FALSE	TRUE TRUE	FALSE FALSE	5.46 4.82	10.80 10.34	8.62 7.92	63% 61%	51% 47%	80% 77%		1.25 1.31	7.0 7.1	9.7 9.4	175.00	159.00	0.91		11,559	10,502			13,479 12,999	12,374 11,906	1,396 1,396	11,559	10,502		13,479 12,999	12,374 11,906	1,396 1,396
3/17/2016	FALSE	TRUE	FALSE	4.41	10.26	7.51	59%	43%	73%		1.37	7.1	9.2	1, 3.00	133.00	0.51	16.40	11,333	10,302	1,027		12,999	11,906	1,211	11,333	10,302	1,027	12,999	11,906	1,211
3/18/2016 3/19/2016	TRUE TRUE	TRUE TRUE	FALSE FALSE	4.03 3.69	9.83 9.53	7.14 6.67	56% 55%	41% 39%	73% 70%		1.38 1.43	7.2 7.2	8.7 8.4									12,999 12,845	11,906 10,521	1,211 1,211				12,999 12,845	11,906 10,521	1,211 1,211
3/20/2016	TRUE	TRUE	TRUE	3.03	10.21	6.82	55/0	3370		nAvgMinM	1.50	7.2	7.9									12,845	10,521	1,211				12,845	10,521	1,211
3/21/2016	TRUE	TRUE	TRUE	3.60	10.40	7.21	50%	35%	69%		1.44	7.3	7.8									12,845	10,521	1,211				12,845	10,521	1,211
3/22/2016 3/23/2016	TRUE TRUE	FALSE FALSE	FALSE FALSE	3.73 3.54	10.31 10.26	7.23 6.97	52% 51%	36% 35%	70% 68%		1.43 1.47	7.3 7.4	7.5 7.2				27.40			1,593		12,845 12,845	10,521 10,521	1,211 1,338			1,593	12,845 12,845	10,521 10,521	1,211 1,338
3/24/2016	TRUE	FALSE	FALSE	3.48	9.91	6.81	51%	35%	69%		1.46	7.4	7.1	224.00	196.00	0.88		12,722	11,132			12,814	10,673	1,338	12,477	11,072		12,753	10,658	1,338

											Diurnal				Influent		Influent											30-d Avg	30-d Avg	30-d Avg
Date	Butte	CSU	Precip?	Min Influent	Max Influent	Avg Influent		Min % of		Flow Outlier	Peak	_	7-d Avg of Avg Flow,		BOD	BOD/TSS	NH3-N	Avg Inf TSS Load,	Avg Inf BOD Load,	Avg Inf NH3 Load,	Load Outlier	30-d Avg of TSS	30-d Avg of BOD	30-d Avg of NH3-N		non-SN BOD Load,		of non-SN	of non-SN	of non-SN
	Break?	Break?		Flow, mgd	Flow, mgd	l Flow, mgd	Avg	Max	Max	Туре	Factor (DPF)	Flow, mgd	mgd	mg/L	Conc., mg/L	Ratio	Conc., mg/L	ppd	ppd	ppd	Туре	Load, ppd	Load, ppd	Load, ppd	ppd	ppd	ppd	ppd	BOD Load, ppd	NH3-N Load, ppd
3/25/2016	TRUE	FALSE	FALSE	3.46	9.87	6.69	52%	35%	68%		1.48	7.4	7.0									12,814	10,673	1,338				12,753	10,658	1,338
3/26/2016 3/27/2016	FALSE FALSE	FALSE FALSE	FALSE FALSE	3.36 3.36	9.92 9.61	6.39 6.09	53% 55%	34% 35%	64% 63%		1.55 1.58	7.5 7.5	6.9 6.8									13,202 13,202	11,038 11,038	1,338 1,338				13,120 13,120	11,018 11,018	1,338 1,338
3/28/2016	FALSE	FALSE	FALSE	3.27	9.84	6.36	51%	33%	65%		1.55	7.5	6.7									13,202	11,038	1,338				13,120	11,018	1,338
3/29/2016 3/30/2016	FALSE FALSE	FALSE FALSE	FALSE FALSE	3.35 3.27	9.37 9.22	6.28 6.20	53% 53%	36% 35%	67% 67%		1.49 1.49	7.5 7.5	6.6 6.5	256.00	316.00	1.23		13,237	16,340			13,202 13,211	11,038 12,364	1,338 1,338	13,237	16,340		13,120 13,150	11,018 12,349	1,338 1,338
3/31/2016	FALSE	FALSE	FALSE	3.36	9.23	6.14	55%	36%	67%		1.50	7.5	6.4	230.00	310.00	1.23	29.90	13,237	10,340	1,531		13,211	12,364	1,387	13,237	10,340	1,531	13,150	12,349	1,387
4/1/2016	FALSE	FALSE	FALSE	3.26	9.08	6.07	54%	36%	67%		1.50	7.6	6.3									13,211	12,364	1,387				13,150	12,349	1,387
4/2/2016 4/3/2016	FALSE FALSE	FALSE FALSE	FALSE FALSE	3.23 3.26	8.93 9.21	5.83 5.87	55% 56%	36% 35%	65% 64%		1.53 1.57	7.6 7.6	6.2 6.1									12,506 12,506	12,658 12,658	1,387 1,384				12,425 12,425	12,638 12,638	1,387 1,384
4/4/2016	FALSE	FALSE	FALSE	3.22	8.88	6.03	53%	36%	68%		1.47	7.6	6.1									12,506	12,658	1,384				12,425	12,638	1,384
4/5/2016	FALSE	FALSE	FALSE	3.16	8.77	6.00	53%	36%	68%		1.46	7.5	6.1	240.00	170.00	0.72		42.200	0.043			12,506	12,658	1,384	42.200	0.043		12,425	12,638	1,384
4/6/2016 4/7/2016	FALSE FALSE	FALSE FALSE	FALSE FALSE	3.39 3.40	8.76 8.85	5.99 6.01	57% 57%	39% 38%	68% 68%		1.46 1.47	7.4 7.2	6.0 6.0	248.00	179.00	0.72	28.30	12,389	8,942	1,418		12,477 12,477	11,729 11,729	1,384 1,392	12,389	8,942	1,418	12,416 12,416	11,714 11,714	1,384 1,392
4/8/2016	FALSE	FALSE	FALSE	3.41	8.79	5.99	57%	39%	68%		1.47	7.1	6.0									12,477	11,729	1,392				12,416	11,714	1,392
4/9/2016 4/10/2016	FALSE FALSE	FALSE FALSE	TRUE TRUE	3.35 3.36	9.08 9.26	5.97 5.98	56% 56%	37% 36%	66% 65%		1.52 1.55	7.0 6.8	6.0 6.0									12,477 12,477	11,729 11,729	1,392 1,392				12,416 12,416	11,714 11,714	1,392 1,392
4/11/2016	FALSE	FALSE	FALSE	3.36	8.39	5.94	57%	40%	71%		1.41	6.8	6.0									12,477	11,729	1,392				12,416	11,714	1,392
4/12/2016	FALSE	FALSE	FALSE	3.43	8.58	5.94	58%	40%	69%		1.44	6.6	6.0									12,477	11,729	1,392				12,416	11,714	1,392
4/13/2016 4/14/2016	FALSE FALSE	FALSE FALSE	FALSE FALSE	3.38 3.41	8.39 8.69	5.94 6.00	57% 57%	40% 39%	71% 69%		1.41 1.45	6.6 6.5	6.0 6.0	277.00	217.00	0.78	31.80	13,722	10,750	1,591		12,726 12,726	11,533 11,533	1,392 1,432	13,722	10,750	1,591	12,677 12,677	11,521 11,521	1,392 1,432
4/15/2016	FALSE	FALSE	FALSE	3.32	8.45	5.88	56%	39%	70%		1.44	6.4	6.0				01.00			2,002		12,726	11,533	1,432			2,002	12,677	11,521	1,432
4/16/2016	FALSE	FALSE FALSE	FALSE FALSE	3.34	8.79	5.70	59%	38%	65%		1.54	6.3	5.9									13,018	11,791	1,432				12,957	11,776	1,432
4/17/2016 4/18/2016	FALSE FALSE	FALSE	FALSE	3.40 3.39	8.63 8.49	5.68 5.87	60% 58%	39% 40%	66% 69%		1.52 1.45	6.2 6.2	5.9 5.9									13,018 13,018	11,791 11,791	1,533 1,533				12,957 12,957	11,776 11,776	1,533 1,533
4/19/2016	FALSE	FALSE	FALSE	3.40	8.36	5.87	58%	41%	70%		1.42	6.2	5.9									13,018	11,791	1,533				12,957	11,776	1,533
4/20/2016 4/21/2016	FALSE FALSE	FALSE FALSE	FALSE FALSE	3.40 3.46	8.56 8.38	5.87 5.99	58% 58%	40% 41%	69% 71%		1.46 1.40	6.2 6.1	5.9 5.9	316.00			35.20	15,470		1,758		13,508 13,508	11,791 11,791	1,533 1,578	15,470		1,758	13,459 13,459	11,776 11,776	1,533 1,578
4/22/2016	FALSE	FALSE	TRUE	3.58	9.49	6.40	56%	38%	67%		1.48	6.1	5.9				33.20			1,738		13,508	11,791	1,578			1,738	13,459	11,776	1,578
4/23/2016	FALSE	FALSE	FALSE	3.48	9.07	6.05	58%	38%	67%		1.50	6.1	5.9									13,508	11,791	1,575				13,459	11,776	1,575
4/24/2016 4/25/2016	FALSE FALSE	FALSE FALSE	FALSE FALSE	3.49 3.38	8.86 8.62	5.95 5.99	59% 56%	39% 39%	67% 69%		1.49 1.44	6.0 6.0	6.0 6.0									13,705 13,705	12,011 12,011	1,575 1,575				13,705 13,705	12,011 12,011	1,575 1,575
4/26/2016	FALSE	FALSE	FALSE	3.43	8.72	6.01	57%	39%	69%		1.45	6.0	6.0									13,705	12,011	1,575				13,705	12,011	1,575
4/27/2016	FALSE	FALSE	FALSE	3.44	8.61	6.04	57%	40%	70%		1.43	6.0	6.0	261.00	189.00	0.72		13,148	9,521			13,593	11,388	1,575	13,148	9,521		13,593	11,388	1,575
4/28/2016 4/29/2016	FALSE FALSE	FALSE FALSE	FALSE FALSE	3.41 3.46	8.53 8.51	5.98 5.93	57% 58%	40% 41%	70% 70%		1.43 1.44	6.0 6.0	6.1 6.0									13,593 13,593	11,388 11,388	1,575 1,575				13,593 13,593	11,388 11,388	1,575 1,575
4/30/2016	FALSE	FALSE	FALSE	3.46	8.70	5.76	60%	40%	66%		1.51	6.0	6.0									13,682	9,738	1,575				13,682	9,738	1,575
5/1/2016 5/2/2016	FALSE FALSE	FALSE FALSE	TRUE TRUE	3.42 3.36	8.52 8.36	5.70 5.85	60% 57%	40% 40%	67% 70%		1.49 1.43	5.9 5.9	5.9 5.9									13,682 13,682	9,738 9,738	1,589 1,589				13,682 13,682	9,738 9,738	1,589 1,589
5/3/2016	FALSE	FALSE	FALSE	3.41	8.37	5.86	58%	41%	70%		1.43	5.9	5.9									13,682	9,738	1,589				13,682	9,738	1,589
5/4/2016	FALSE	FALSE	FALSE	3.44	8.44	5.90	58%	41%	70%		1.43	5.9	5.9	252.00	195.00	0.77		12,400	9,595			13,426	9,702	1,589	12,400	9,595		13,426	9,702	1,589
5/5/2016 5/6/2016	FALSE FALSE	FALSE FALSE	TRUE TRUE	3.41 3.43	8.66 8.26	6.19 5.92	55% 58%	39% 42%	71% 72%		1.40 1.40	5.9 5.9	5.9 5.9				32.30			1,667		13,426 13,426	9,702 9,702	1,609 1,609			1,667	13,426 13,426	9,702 9,702	1,609 1,609
5/7/2016	FALSE	FALSE	TRUE	3.43	9.39	5.88	58%	37%	63%		1.60	5.9	5.9									13,685	9,955	1,609				13,685	9,955	1,609
5/8/2016	FALSE	FALSE	TRUE	3.36	8.92	5.73	59%	38%	64%		1.56	5.9	5.9									13,685	9,955	1,672				13,685	9,955	1,672
5/9/2016 5/10/2016	FALSE FALSE	FALSE FALSE	FALSE FALSE	3.41 3.44	8.39 8.35	5.99 5.89	57% 58%	41% 41%	71% 71%		1.40 1.42	5.9 5.9	5.9 5.9									13,685 13,685	9,955 9,955	1,672 1,672				13,685 13,685	9,955 9,955	1,672 1,672
5/11/2016	FALSE	FALSE	FALSE	3.51	8.28	5.83	60%	42%	70%		1.42	5.9	5.9	202.20	203.00	1.00		9,831	9,870			12,914	9,934	1,672	9,831	9,870		12,914	9,934	1,672
5/12/2016 5/13/2016	FALSE FALSE	FALSE FALSE	FALSE FALSE	3.42 3.43	8.37 8.81	5.81 5.83	59% 59%	41% 39%	69% 66%		1.44 1.51	5.9 5.9	5.9 5.9									12,914 12,914	9,934 9,934	1,672 1,672				12,914 12,914	9,934 9,934	1,672 1,672
5/13/2016	FALSE	FALSE	FALSE	3.34	8.57	5.66	59%	39%	66%		1.51	5.9	5.8									12,712	9,662	1,672				12,712	9,954	1,672
5/15/2016	FALSE	FALSE	FALSE	3.33	8.82	5.67	59%	38%	64%		1.56	5.9	5.8									12,712	9,662	1,713				12,712	9,662	1,713
5/16/2016 5/17/2016	FALSE FALSE	FALSE FALSE	FALSE FALSE	3.30 3.40	8.28 8.61	5.79 5.80	57% 59%	40% 39%	70% 67%		1.43 1.48	5.9 5.9	5.8 5.8									12,712 12,712	9,662 9,662	1,713 1,713				12,712 12,712	9,662 9,662	1,713 1,713
5/18/2016	FALSE	FALSE	FALSE	3.41	8.52	5.84	58%	40%	69%		1.46	5.9	5.8	299.00				14,563				13,082	9,662	1,713	14,563			13,082	9,662	1,713
5/19/2016	FALSE	FALSE	FALSE	3.37	8.41	5.81	58%	40%	69%		1.45	5.9	5.8									13,082	9,662	1,713				13,082	9,662	1,713
5/20/2016 5/21/2016	FALSE FALSE	FALSE FALSE	TRUE FALSE	3.37 3.42	8.22 8.89	5.84 5.81	58% 59%	41% 38%	71% 65%		1.41 1.53	5.9 5.9	5.8 5.8									13,082 12,485	9,662 9,662	1,713 1,713				13,082 12,485	9,662 9,662	1,713 1,713
5/22/2016	FALSE	TRUE	FALSE	3.42	8.41	5.66	60%	41%	67%		1.49	5.9	5.8									12,485	9,662	1,667				12,485	9,662	1,667
5/23/2016 5/24/2016	FALSE	TRUE	FALSE	3.42	8.04 7.71	5.64 5.49	61%	43% 45%	70% 71%		1.43	5.9 5.8	5.8 5.7									12,485	9,662	1,667				12,485	9,662	1,667 1,667
5/24/2016 5/25/2016	FALSE FALSE	TRUE TRUE	FALSE FALSE	3.44 3.40	7.71 7.74	5.49 5.51	63% 62%	45% 44%	71% 71%		1.40 1.40	5.8 5.8	5.7 5.7									12,485 12,485	9,662 9,662	1,667 1,667				12,485 12,485	9,662 9,662	1,667
5/26/2016	FALSE	TRUE	FALSE	3.45	7.63	5.47	63%	45%	72%		1.39	5.8	5.7									12,485	9,662	1,667				12,485	9,662	1,667

										-1	Diurnal	20.44	7 .1 0	161	Influent		Influent	A	A	A		20.44	20 14	20 44				30-d Avg	30-d Avg	30-d Avg
Date	Butte Break?	CSU Break?	Precip?	Min Influent	Max Influent	Avg Influent		Min % of		Flow Outlier	Peak		7-d Avg of Avg Flow,	TSS Conc.,	BOD	BOD/TSS		Avg Inf TSS Load,	Avg Inf BOD Load,	Avg Inf NH3 Load,	Load Outlier	of TSS		30-d Avg of NH3-N				of non-SN	of non-SN	of non-SN
	Dieakt	DIEdKI		Flow, mg	d Flow, mgc	l Flow, mgd	Avg	Max	Max	Туре	Factor (DPF)	Flow, mgd	mgd	mg/L	Conc., mg/L	Ratio	Conc., mg/L	ppd	ppd	ppd	Туре	Load, ppd	Load, ppd	Load, ppd	ppd	ppd	ppd	ppd	BOD Load, ppd	NH3-N Load, ppd
5/27/2016	TRUE TRUE	TRUE TRUE	FALSE FALSE	3.48 3.41	7.75 7.91	5.44 5.18	64% 66%	45% 43%	70% 65%		1.42 1.53	5.8 5.8	5.6 5.5	315.00	237.00	0.75		14,291	10,753			12,847 12,771	9,935 10,073	1,667 1,667	14,291	10,753		12,847 12,771	9,935 10,073	1,667 1,667
5/28/2016 5/29/2016	TRUE	TRUE	FALSE	3.41	7.48	5.18	69%	45%	67%		1.53	5.8	5.5									12,771	10,073	1,667				12,771	10,073	1,667
5/30/2016	TRUE	TRUE	FALSE	3.43	8.02	5.21	66%	43%	65%		1.54	5.7	5.4									12,771	10,073	1,667				12,771	10,073	1,667
5/31/2016 6/1/2016	TRUE TRUE	TRUE TRUE	FALSE FALSE	3.45 3.53	7.54 7.37	5.33 5.36	65% 66%	46% 48%	71% 73%		1.41 1.38	5.7 5.7	5.3 5.3	356.85	186.00	0.52		15,952	8,315			12,771 13,408	10,073 9,633	1,667 1,667	15,952	8,315		12,771 13,408	10,073 9,633	1,667 1,667
6/2/2016	TRUE	TRUE	FALSE	3.46	7.58	5.40	64%	46%	71%		1.40	5.7	5.3				30.00	,	,	1,351		13,408	9,633	1,509	,	,	1,351	13,408	9,633	1,509
6/3/2016 6/4/2016	TRUE TRUE	TRUE TRUE	FALSE FALSE	3.50 3.50	7.28 8.04	5.37 5.31	65% 66%	48% 44%	74% 66%		1.36 1.51	5.7 5.6	5.3 5.3									13,408 13,659	9,633 9,646	1,509 1,509				13,408 13,659	9,633 9,646	1,509 1,509
6/5/2016	TRUE	TRUE	FALSE	3.48	7.70	5.21	67%	45%	68%		1.48	5.6	5.3									13,659	9,646	1,351				13,659	9,646	1,351
6/6/2016	TRUE	TRUE	FALSE	3.44	7.24	5.31	65%	48%	73%		1.36	5.6	5.3									13,659	9,646	1,351				13,659	9,646	1,351
6/7/2016 6/8/2016	TRUE TRUE	TRUE TRUE	FALSE FALSE	3.51 3.50	7.48 7.62	5.33 5.38	66% 65%	47% 46%	71% 71%		1.40 1.42	5.6 5.6	5.3 5.3	134.70	97.00	0.72		6,044	4,352			13,659 12,136	9,646 8,322	1,351 1,351	6,044	4,352		13,659 12,136	9,646 8,322	1,351 1,351
6/9/2016	TRUE	TRUE	FALSE	3.48	7.31	5.32	65%	48%	73%		1.37	5.5	5.3					•				12,136	8,322	1,351				12,136	8,322	1,351
6/10/2016 6/11/2016	TRUE TRUE	TRUE TRUE	FALSE FALSE	3.40 3.41	7.61 7.73	5.29 5.10	64% 67%	45% 44%	70% 66%		1.44 1.52	5.5 5.5	5.3 5.3	289.00	229.00	0.79		12,750	10,103			12,239 12,720	8,679 8,381	1,351 1,351	12,750	10,103		12,239 12,720	8,679 8,381	1,351 1,351
6/12/2016	TRUE	TRUE	FALSE	3.42	7.74	5.09	67%	44%	66%		1.52	5.5	5.3									12,720	8,381	1,351				12,720	8,381	1,351
6/13/2016	TRUE	TRUE	FALSE	3.43	7.42	5.33	64%	46%	72%		1.39	5.5	5.3									12,720	8,381	1,351				12,720	8,381	1,351
6/14/2016 6/15/2016	TRUE TRUE	TRUE TRUE	FALSE FALSE	3.44 3.44	7.10 7.43	5.28 5.42	65% 63%	48% 46%	74% 73%		1.34 1.37	5.4 5.4	5.3 5.3	280.40	246.00	0.88		12,675	11,120			12,720 12,713	8,381 8,929	1,351 1,351	12,675	11,120		12,720 12,713	8,381 8,929	1,351 1,351
6/16/2016	TRUE	TRUE	FALSE	3.45	7.35	5.37	64%	47%	73%		1.37	5.4	5.3					,	, -			12,713	8,929	1,351	,			12,713	8,929	1,351
6/17/2016 6/18/2016	TRUE TRUE	TRUE TRUE	TRUE TRUE	3.41 3.53	7.59 8.01	5.38 5.29	63% 67%	45% 44%	71% 66%		1.41 1.51	5.4 5.4	5.3 5.3	278.20	247.00	0.89		12,483	11,083			12,680 12,366	9,288 9,288	1,351 1,351	12,483	11,083		12,680 12,366	9,288 9,288	1,351 1,351
6/19/2016	TRUE	TRUE	FALSE	3.40	7.51	5.05	67%	45%	67%		1.49	5.4	5.3									12,366	9,288	1,351				12,366	9,288	1,351
6/20/2016	TRUE	TRUE	FALSE	3.38	7.23	5.17	65%	47%	72%		1.40	5.3	5.3				30.00			1,294		12,366	9,288	1,322			1,294	12,366	9,288	1,322
6/21/2016 6/22/2016	TRUE TRUE	TRUE TRUE	FALSE FALSE	3.44 3.44	7.15 7.28	5.28 5.28	65% 65%	48% 47%	74% 73%		1.35 1.38	5.3 5.3	5.3 5.3	270.40	201.00	0.74		11,907	8,851			12,366 12,300	9,288 9,225	1,322 1,322	11,907	8,851		12,366 12,300	9,288 9,225	1,322 1,322
6/23/2016	TRUE	TRUE	FALSE	3.36	7.35	5.24	64%	46%	71%		1.40	5.3	5.3					,	0,000			12,300	9,225	1,322	,	-,		12,300	9,225	1,322
6/24/2016	TRUE	TRUE	FALSE	3.44	7.24	5.25	66%	48%	73%		1.38	5.3	5.2	348.60	310.00	0.89		15,263	13,573			12,671	9,769	1,322	15,263	13,573		12,671	9,769	1,322
6/25/2016 6/26/2016	TRUE TRUE	TRUE TRUE	FALSE FALSE	3.45 3.42	7.30 7.35	5.02 5.03	69% 68%	47% 47%	69% 68%		1.45 1.46	5.3 5.3	5.2 5.2									12,671 12,671	9,769 9,769	1,322 1,322				12,671 12,671	9,769 9,769	1,322 1,322
6/27/2016	TRUE	TRUE	FALSE	3.44	7.41	5.26	65%	46%	71%		1.41	5.3	5.2									12,439	9,628	1,322				12,439	9,628	1,322
6/28/2016 6/29/2016	TRUE TRUE	TRUE TRUE	FALSE FALSE	3.53 3.43	7.36 7.18	5.25 5.29	67% 65%	48% 48%	71% 74%		1.40 1.36	5.3 5.3	5.2 5.2									12,439 12,439	9,628 9,628	1,322 1,322				12,439 12,439	9,628 9,628	1,322 1,322
6/30/2016	TRUE	TRUE	FALSE	3.52	7.02	5.23	67%	50%	75%		1.34	5.3	5.2	284.40	184.00	0.65		12,405	8,026			12,435	9,428	1,322	12,405	8,026		12,435	9,428	1,322
7/1/2016 7/2/2016	TRUE TRUE	TRUE TRUE	FALSE FALSE	3.45 3.44	7.41 7.02	5.21	66% 70%	47% 49%	70%	MinAvg	1.42	5.3 5.3	5.2 5.2	262.60	216.00	0.82		11,410	9,386			12,321	9,423 9,562	1,322 1,322	11,410	9,386		12,321	9,423 9,562	1,322 1,322
7/2/2016	TRUE	TRUE	FALSE	1.34	6.87	4.94 4.75	28%	20%	70% 69%	inAvgMinM	1.42 1.45	5.3	5.2									11,867 11,867	9,562	1,322				11,867 11,867	9,562	1,322
7/4/2016	TRUE	TRUE	FALSE	3.42	7.26	4.86	70%	47%	67%	MinAvg	1.49	5.2	5.2									11,867	9,562	1,294				11,867	9,562	1,294
7/5/2016 7/6/2016	TRUE TRUE	TRUE TRUE	FALSE FALSE	3.44 3.47	7.43 7.21	5.18 4.90	66% 71%	46% 48%	70% 68%	MinAvg	1.43 1.47	5.2 5.2	5.2 5.2	293.00	201.00	0.69		11,974	8,214			11,867 11,879	9,562 9,412	1,294 1,294	11,974	8,214		11,867 11,879	9,562 9,412	1,294 1,294
7/7/2016	TRUE	TRUE	FALSE	3.50	7.23	5.67	62%	48%	78%		1.28	5.3	5.3	255.00	201.00	0.03		11,37	0,22 :			11,879	9,412	1,294	11,57	5,22 :		11,879	9,412	1,294
7/8/2016	TRUE	TRUE	FALSE	3.42	7.66	5.34	64%	45%	70%		1.43	5.3	5.4									11,879	9,412	1,294				11,879	9,412	1,294
7/9/2016 7/10/2016	TRUE TRUE	TRUE TRUE	FALSE FALSE	3.42 3.37	7.68 7.61	5.16 5.09	66% 66%	45% 44%	67% 67%		1.49 1.50	5.3 5.2	5.3 5.3									12,608 12,608	10,044 10,044	1,294 1,294				12,608 12,608	10,044 10,044	1,294 1,294
7/11/2016	TRUE	TRUE	FALSE	3.33	7.24	5.22	64%	46%	72%		1.39	5.2	5.3									12,588	10,036	1,294				12,588	10,036	1,294
7/12/2016 7/13/2016	TRUE	TRUE TRUE	FALSE FALSE	3.39 3.40	7.54 7.15	5.30 5.29	64% 64%	45% 48%	70% 74%		1.42 1.35	5.2 5.3	5.3 5.3									12,588 12,588	10,036 10,036	1,294 1,294				12,588 12,588	10,036 10,036	1,294 1,294
7/14/2016	TRUE	TRUE	FALSE	3.45	7.30	5.30	65%	47%	73%		1.38	5.3	5.3									12,588	10,036	1,294				12,588	10,036	1,294
7/15/2016 7/16/2016	TRUE	TRUE	FALSE FALSE	3.39	7.24	5.25 5.06	65%	47%	73%		1.38	5.3	5.2	275.60	205.00	0.74		12,067	8,976			12,523	9,904 9,730	1,294	12,067	8,976		12,523	9,904	1,294
7/16/2016	TRUE TRUE	TRUE TRUE	FALSE	3.37 3.38	7.28 7.30	5.06	67% 66%	46% 46%	70% 70%		1.44 1.43	5.2 5.2	5.2 5.2									12,501 12,501	9,730	1,294 1,294				12,501 12,501	9,730 9,730	1,294 1,294
7/18/2016	TRUE	TRUE	FALSE	3.37	7.51	5.28	64%	45%	70%		1.42	5.2	5.2									12,504	9,504	1,294				12,504	9,504	1,294
7/19/2016 7/20/2016	TRUE TRUE	TRUE TRUE	FALSE FALSE	3.43 3.41	7.41 7.19	5.35 5.31	64% 64%	46% 47%	72% 74%		1.39 1.35	5.2 5.2	5.2 5.2	270.50				11,979				12,504 12,429	9,504 9,504	1,294 1,294	11,979			12,504 12,429	9,504 9,504	1,294 1,294
7/21/2016	TRUE	TRUE	FALSE	3.45	7.55	5.29	65%	46%	70%		1.43	5.2	5.2									12,429	9,504	.,				12,429	9,504	,
7/22/2016 7/23/2016	TRUE TRUE	TRUE TRUE	FALSE FALSE	3.48 3.44	6.85 7.58	5.22 5.01	67% 69%	51% 45%	76% 66%		1.31 1.51	5.2 5.2	5.2 5.2	250.90	183.00	0.73		10,923	7,967			12,241 12,289	9,285 9,357		10,923	7,967		12,241 12,289	9,285 9,357	
7/23/2016	TRUE	TRUE	FALSE	3.44	7.58	5.01 4.97	69%	45% 47%	68%		1.47	5.2	5.2									12,289	9,357					12,289	9,357	
7/25/2016	TRUE	TRUE	FALSE	3.42	7.56	5.24	65%	45%	69%		1.44	5.2	5.2									11,793	8,514					11,793	8,514	
7/26/2016 7/27/2016	TRUE TRUE	TRUE TRUE	FALSE FALSE	3.46 3.46	7.13 7.18	5.22 5.31	66% 65%	49% 48%	73% 74%		1.37 1.35	5.2 5.2	5.2 5.2	258.20	202.00	0.78		11,434	8,946			11,793 11,742	8,514 8,586		11,434	8,946		11,793 11,742	8,514 8,586	
7/28/2016	TRUE	TRUE	FALSE	3.53	7.52	5.31	66%	47%	71%		1.42	5.2	5.2	22.20		20		_,	,			11,742	8,586		_,			11,742	8,586	

				Min	May	Ave				Flour	Diurnal	20 d Ava	7 d Ava of	Influent	Influent		Influent	Avalet	Avalnf	Avalnt	Lood	20 d Ava	20 d Ava	20 d Ava	non SN	non CN	non SN	30-d Avg	30-d Avg	30-d Avg
Date	Butte Break?	CSU Break?	Precip?	Min Influent	Max Influent	Avg Influent		Min % of Max	Avg % of Max	Flow Outlier	Peak Factor		7-d Avg of Avg Flow,	TSS Conc.,	BOD Conc.,	BOD/TSS Ratio	NH3-N Conc.,	Avg Inf TSS Load,	Avg Inf BOD Load,	Avg Inf NH3 Load,	Load Outlier	of TSS		30-d Avg of NH3-N					of non-SN BOD Load,	
	Dieak:	Dieak:		Flow, mgd	l Flow, mgd	Flow, mgd	Avg	IVIGA	IVIGA	Туре	(DPF)	Flow, mgd	mgd	mg/L	mg/L	Natio	mg/L	ppd	ppd	ppd	Туре	Load, ppd	Load, ppd	Load, ppd	ppd	ppd	ppd	ppd	ppd	Load, ppd
7/29/2016	TRUE	TRUE	FALSE	3.46	7.53	5.25	66%	46%	70%		1.43	5.2	5.2	250.00	177.00	0.71		10,946	7,750			11,642	8,466		10,946	7,750		11,642	8,466	
7/30/2016 7/31/2016	TRUE TRUE	TRUE TRUE	FALSE FALSE	3.51 3.44	7.26 7.36	5.07 5.06	69% 68%	48% 47%	70% 69%		1.43 1.45	5.2 5.2	5.2 5.2									11,642 11,533	8,466 8,540					11,642 11,533	8,466 8,540	
8/1/2016	TRUE	TRUE	FALSE	3.46	7.51	5.28	66%	46%	70%		1.42	5.2	5.2									11,554	8,370					11,554	8,370	
8/2/2016 8/3/2016	TRUE TRUE	TRUE TRUE	FALSE FALSE	3.47 3.46	7.14 7.39	5.25 5.34	66% 65%	49% 47%	74% 72%		1.36 1.38	5.2 5.2	5.2 5.2									11,554 11,554	8,370 8,370					11,554 11,554	8,370 8,370	
8/4/2016	TRUE	TRUE	FALSE	3.55	7.21	5.32	67%	49%	74%		1.36	5.2	5.2	288.00	173.00	0.60		12,778	7,676			11,729	8,255		12,778	7,676		11,729	8,255	
8/5/2016	TRUE	TRUE	FALSE	3.41	7.54	5.28	65%	45%	70%		1.43	5.2	5.2	264.20	170.00	0.64		11,634	7,486			11,717	8,145		11,634	7,486		11,717	8,145	
8/6/2016 8/7/2016	TRUE TRUE	TRUE TRUE	FALSE FALSE	3.45 3.41	7.47 7.70	5.15 5.21	67% 65%	46% 44%	69% 68%		1.45 1.48	5.2 5.2	5.2 5.2									11,680 11,680	8,133 8,133					11,680 11,680	8,133 8,133	
8/8/2016	TRUE	TRUE	FALSE	3.46	7.57	5.35	65%	46%	71%		1.41	5.2	5.3									11,680	8,133					11,680	8,133	
8/9/2016	TRUE	TRUE	FALSE	3.51	7.48	5.41	65%	47%	72%		1.38	5.2	5.3	246.20	122.00	0.50		11 272	F (22			11,680	8,133		11 272	F (22		11,680	8,133	
8/10/2016 8/11/2016	TRUE TRUE	TRUE TRUE	FALSE FALSE	3.46 3.48	7.55 7.59	5.49 5.41	63% 64%	46% 46%	73% 71%		1.38 1.40	5.2 5.2	5.3 5.3	246.20	123.00	0.50		11,273	5,632			11,629 11,629	7,776 7,776		11,273	5,632		11,629 11,629	7,776 7,776	
8/12/2016	TRUE	TRUE	FALSE	3.33	7.94	5.42	61%	42%	68%		1.46	5.3	5.3									11,629	7,776					11,629	7,776	
8/13/2016 8/14/2016	TRUE TRUE	TRUE TRUE	FALSE FALSE	3.47 3.41	8.15 7.90	5.29 5.28	66% 65%	43% 43%	65% 67%		1.54 1.50	5.3 5.3	5.3 5.4									11,629 11,629	7,776 7,776					11,629 11,629	7,776 7,776	
8/15/2016	TRUE	TRUE	FALSE	3.44	13.15	5.59	62%	26%	43%	AvgMax	2.35	5.3	5.4									11,567	7,776					11,529	7,776	
8/16/2016	TRUE	TRUE	FALSE	3.42	7.89	5.66	60%	43%	72%	_	1.39	5.3	5.4									11,567	7,576					11,567	7,576	
8/17/2016 8/18/2016	TRUE TRUE	TRUE TRUE	FALSE FALSE	3.47 3.47	8.07 8.47	5.68 5.74	61% 60%	43% 41%	70% 68%		1.42 1.48	5.3 5.3	5.5 5.5	285.00	190.00	0.67	28.90	13,501	9,001	1,383		11,809 11,809	7,780 7,780	1,383	13,501	9,001	1,383	11,809 11,809	7,780 7,780	1,383
8/19/2016	TRUE	TRUE	FALSE	3.44	7.99	5.76	60%	43%	72%		1.39	5.3	5.5	255.00	167.00	0.65	26.90	12,250	8,022	1,363		11,858	7,780	1,383	12,250	8,022	1,363	11,858	7,780	1,383
8/20/2016	TRUE	TRUE	FALSE	3.46	8.87	5.73	60%	39%	65%		1.55	5.3	5.6									11,842	7,810	1,383				11,842	7,810	1,383
8/21/2016 8/22/2016	TRUE TRUE	TRUE TRUE	FALSE FALSE	3.45 3.45	9.10 8.79	5.85 5.82	59% 59%	38% 39%	64% 66%		1.56 1.51	5.4 5.4	5.7 5.7									11,842 11,974	7,810 7,787	1,383 1,383				11,842 11,974	7,810 7,787	1,383 1,383
8/23/2016	FALSE	FALSE	FALSE	3.45	8.61	5.82	59%	40%	67%		1.48	5.4	5.8									11,974	7,787	1,383				11,974	7,787	1,383
8/24/2016	FALSE	FALSE	FALSE	3.43	8.68	5.87	58%	40%	68%		1.48	5.4	5.8	265.00				12,973				12,099	7,787	1,383	12,973			12,099	7,787	1,383
8/25/2016 8/26/2016	FALSE FALSE	FALSE FALSE	FALSE FALSE	3.49 3.50	8.72 8.41	5.82 5.87	60% 60%	40% 42%	67% 70%		1.50 1.43	5.4 5.5	5.8 5.8	232.00	211.00	0.91		11,358	10,330			12,099 12,016	7,787 8,105	1,383 1,383	11,358	10,330		12,099 12,016	7,787 8,105	1,383 1,383
8/27/2016	FALSE	FALSE	FALSE	3.49	9.03	5.72	61%	39%	63%		1.58	5.5	5.8	232.00	211.00	0.91		11,336	10,330			12,010	7,985	1,383	11,338	10,330		12,010	7,985	1,383
8/28/2016	FALSE	FALSE	FALSE	3.39	8.97	5.81	58%	38%	65%		1.54	5.5	5.8									12,089	7,985	1,383				12,089	7,985	1,383
8/29/2016 8/30/2016	FALSE FALSE	FALSE FALSE	FALSE FALSE	3.48 3.39	8.79 8.58	5.94 5.91	59% 57%	40% 40%	68% 69%		1.48 1.45	5.5 5.6	5.8 5.8									12,252 12,252	8,024 8,024	1,383 1,383				12,252 12,252	8,024 8,024	1,383 1,383
8/31/2016	FALSE	FALSE	FALSE	3.44	8.75	5.89	58%	39%	67%		1.49	5.6	5.9									12,252	8,024	1,383				12,252	8,024	1,383
9/1/2016	FALSE	FALSE	FALSE	3.46	9.32	6.02	57%	37%	65%		1.55	5.6	5.9									12,252	8,024	1,383				12,252	8,024	1,383
9/2/2016 9/3/2016	FALSE FALSE	FALSE FALSE	FALSE FALSE	3.56 3.50	8.52 8.93	5.92 5.64	60% 62%	42% 39%	69% 63%		1.44 1.58	5.6 5.6	5.9 5.9	258.00	191.00	0.74		12,738	9,430			12,313 12,313	8,225 8,225	1,383 1,383	12,738	9,430		12,313 12,313	8,225 8,225	1,383 1,383
9/4/2016	FALSE	FALSE	FALSE	3.41	8.88	5.54	62%	38%	62%		1.60	5.6	5.8									12,247	8,317	1,383				12,247	8,317	1,383
9/5/2016	FALSE	FALSE	FALSE	3.46	9.05	5.73	60%	38%	63%		1.58	5.7	5.8									12,349	8,483	1,383				12,349	8,483	1,383
9/6/2016 9/7/2016	FALSE FALSE	FALSE FALSE	FALSE FALSE	3.42 3.50	8.55 8.76	5.93 5.97	58% 59%	40% 40%	69% 68%		1.44 1.47	5.7 5.7	5.8 5.8	253.70				12,632				12,349 12,389	8,483 8,483	1,383 1,383	12,632			12,349 12,389	8,483 8,483	1,383 1,383
9/8/2016	FALSE	FALSE	FALSE	3.52	8.59	5.99	59%	41%	70%		1.43	5.7	5.8	233.70				12,032				12,389	8,483	1,383	12,032			12,389	8,483	1,383
9/9/2016	FALSE	FALSE	FALSE	3.42	8.50	5.99	57%	40%	70%		1.42	5.8	5.8	272.80	174.00	0.64		13,628	8,692			12,544	8,518	1,383	13,628	8,692		12,544	8,518	1,383
9/10/2016 9/11/2016	FALSE FALSE	FALSE FALSE	FALSE FALSE	3.55 3.45	8.94 8.99	5.87 5.85	60% 59%	40% 38%	66% 65%		1.52 1.54	5.8 5.8	5.8 5.9									12,726 12,726	9,095 9,095	1,383 1,383				12,726 12,726	9,095 9,095	1,383 1,383
9/12/2016	FALSE	FALSE	FALSE	3.47	8.51	6.02	58%	41%	71%		1.41	5.8	5.9									12,726	9,095	1,383				12,726	9,095	1,383
9/13/2016	FALSE	FALSE	FALSE	3.53	8.81	6.00	59%	40%	68%		1.47	5.8	6.0	467.00				0.272				12,726	9,095	1,383	0.272			12,726	9,095	1,383
9/14/2016 9/15/2016	FALSE FALSE	FALSE FALSE	FALSE FALSE	3.50 3.51	8.96 8.76	5.94 5.93	59% 59%	39% 40%	66% 68%		1.51 1.48	5.8 5.8	6.0 5.9	167.00				8,273				12,169 12,169	9,095 9,095	1,383 1,383	8,273			12,169 12,169	9,095 9,095	1,383 1,383
9/16/2016	FALSE	FALSE	FALSE	3.51	17.50	5.91	59%	20%		nMaxAvgM	2.96	5.9	5.9	244.60	176.00	0.72		12,056	8,675			12,157	9,025	1,383	12,056	8,675		12,157	9,025	1,383
9/17/2016	FALSE	FALSE	FALSE	3.60	7.95	5.69	63%	45%	72%		1.40	5.9	5.9									11,989	9,030	1,383				11,989	9,030	1,383
9/18/2016 9/19/2016	FALSE FALSE	FALSE FALSE	FALSE FALSE	3.51 3.54	8.04 8.68	5.77 5.89	61% 60%	44% 41%	72% 68%		1.39 1.47	5.9 5.9	5.9 5.9									11,989 11,951	9,030 9,282					11,989 11,951	9,030 9,282	
9/20/2016	FALSE	FALSE	FALSE	3.52	8.71	5.87	60%	40%	67%		1.48	5.9	5.9									11,951	9,282					11,951	9,282	
9/21/2016	FALSE	FALSE	FALSE	3.50	8.69	5.90	59%	40%	68%		1.47	5.9	5.9	250.50	169.00	0.67	20.20	12,326	8,316	1 444		11,998	9,089	1 444	12,326	8,316	1 444	11,998	9,089	1 4 4 4
9/22/2016 9/23/2016	FALSE FALSE	FALSE FALSE	FALSE FALSE	3.55 3.50	8.55 8.27	5.93 5.90	60% 59%	42% 42%	69% 71%		1.44 1.40	5.9 5.9	5.9 5.9	272.70	228.00	0.84	29.20	13,418	11,219	1,444		11,998 12,156	9,089 9,444	1,444 1,444	13.418	11,219	1,444	11,998 12,156	9,089 9,444	1,444 1,444
9/24/2016	FALSE	FALSE	FALSE	3.60	8.35	5.79	62%	43%	69%		1.44	5.9	5.8					2, 20	.,_20			12,054	9,444	1,444	2, 20	_,		12,054	9,444	1,444
9/25/2016	FALSE	FALSE	FALSE	3.50	8.12	5.72	61%	43%	70%		1.42	5.9	5.8									12,054	9,444	1,444				12,054	9,444	1,444
9/26/2016 9/27/2016	FALSE FALSE	FALSE FALSE	FALSE FALSE	3.56 3.54	7.77 8.06	5.86 5.96	61% 59%	46% 44%	75% 74%		1.33 1.35	5.9 5.9	5.9 5.9									12,153 12,153	9,266 9,266	1,444 1,444				12,153 12,153	9,266 9,266	1,444 1,444
9/28/2016	FALSE	FALSE	FALSE	3.52	8.16	5.95	59%	43%	73%		1.37	5.9	5.9									12,153	9,266	1,444				12,153	9,266	1,444
9/29/2016	FALSE	FALSE	FALSE	3.58	8.18	6.01	60%	44%	73%		1.36	5.9	5.9									12,153	9,266	1,444				12,153	9,266	1,444

				Min	Max	Δνα				Flow	Diurnal	30-d Avg	7-d Avg of	Influent	Influent		Influent	Ava Inf	Avg Inf	Avg Inf	Load	30-d Ava	30-d Ava	30-d Avg	non-SN	non-SN	non-SN	30-d Avg	30-d Avg	30-d Avg
Date	Butte Break?	CSU Break?	Precip?	Influent		Avg Influent		Min % of Max	Avg % of Max	Outlier	Peak Factor	of Avg		TSS Conc.,	BOD Conc	BOD/TSS Ratio	NH3-N Conc.,	Avg Inf TSS Load,	BOD Load,		Outlier	of TSS		of NH3-N					of non-SN BOD Load,	
	Dieak:	DIEGK:		Flow, mg	d Flow, mgc	l Flow, mgd	Avg	IVIAA	IVIAA	Туре	(DPF)	Flow, mgd	mgd	mg/L	mg/L	Natio	mg/L	ppd	ppd	ppd	Туре	Load, ppd	Load, ppd	Load, ppd	ppd	ppd	ppd	ppd	ppd	Load, ppd
9/30/2016	FALSE	FALSE	FALSE	3.57	8.37	6.09	59%	43%	73%		1.37	5.9	5.9	238.50	191.00	0.80		12,114	9,701			12,148	9,339	1,444	12,114	9,701		12,148	9,339	1,444
10/1/2016 10/2/2016	FALSE FALSE	FALSE FALSE	FALSE TRUE	3.54 3.42	8.41 9.12	5.82 6.15	61% 56%	42% 38%	69% 67%		1.45 1.48	5.9 5.9	5.9 5.9									12,148 12,148	9,339 9,339	1,444 1,444				12,148 12,148	9,339 9,339	1,444 1,444
10/3/2016	FALSE	FALSE	TRUE	3.58	8.68	6.35	56%	41%	73%		1.37	5.9	6.0									12,064	9,321	1,444				12,064	9,321	1,444
10/4/2016	FALSE	FALSE	FALSE	3.62	8.61	6.15	59%	42%	71%		1.40	5.9	6.1	220.00	240.00	0.67		16 126	10.040			12,064	9,321	1,444	16.426	10.040		12,064	9,321	1,444
10/5/2016 10/6/2016	FALSE FALSE	FALSE FALSE	FALSE FALSE	3.54 3.58	8.12 7.81	5.99 5.83	59% 61%	44% 46%	74% 75%		1.36 1.34	5.9 5.9	6.1 6.0	329.00	219.00	0.67		16,436	10,940			12,610 12,610	9,591 9,591	1,444 1.444	16,436	10,940		12,610 12,610	9,591 9,591	1,444 1,444
10/7/2016	FALSE	FALSE	FALSE	3.27	7.80	5.84	56%	42%	75%		1.34	5.9	6.0	277.00	184.00	0.66		13,491	8,962			12,708	9,501	1,444	13,491	8,962		12,708	9,501	1,444
10/8/2016	FALSE	FALSE	FALSE	3.31	8.53	5.62	59%	39%	66%		1.52	5.9	6.0									12,718	9,501	1,444				12,718	9,501	1,444
10/9/2016 10/10/2016	FALSE FALSE	FALSE FALSE	FALSE FALSE	3.20 3.21	8.03 8.25	5.51 5.89	58% 54%	40% 39%	69% 71%		1.46 1.40	5.9 5.9	5.9 5.9									12,718 12,588	9,501 9,636	1,444 1,444				12,718 12,588	9,501 9,636	1,444 1,444
10/11/2016	FALSE	FALSE	FALSE	3.21	7.92	5.68	57%	41%	72%		1.39	5.9	5.8									12,588	9,636	1,444				12,588	9,636	1,444
10/12/2016	FALSE	FALSE	FALSE	3.19	7.95	5.71	56%	40%	72%		1.39	5.9	5.8	308.00	202.00	0.66		14,667	9,620			12,848	9,633	1,444	14,667	9,620		12,848	9,633	1,444
10/13/2016 10/14/2016	FALSE FALSE	FALSE FALSE	FALSE TRUE	3.26 3.20	7.75 8.77	5.74 6.09	57% 53%	42% 36%	74% 69%		1.35 1.44	5.9 5.9	5.7 5.8	343.00	269.00	0.78		17,421	13,663			12,848 13,356	9,633 10,137	1,444 1,444	17,421	13,663		12,848 13,356	9,633 10,137	1,444 1,444
10/15/2016	FALSE	FALSE	TRUE	3.28	8.86	5.99	55%	37%	68%		1.48	5.9	5.8									13,991	10,137	1,444				13,991	10,137	1,444
10/16/2016	FALSE	FALSE	TRUE	3.25	8.73	6.01	54%	37%	69%		1.45	5.9	5.8									13,991	10,137	1,444				13,991	10,137	1,444
10/17/2016 10/18/2016	FALSE FALSE	FALSE FALSE	FALSE FALSE	2.39 3.31	8.32 8.09	6.08 5.95	39% 56%	29% 41%	73% 74%	MinAvg	1.37 1.36	5.9 5.9	5.9 5.9									14,268 14,268	10,346 10,346	1,444 1,444				14,268 14,268	10,346 10,346	1,444 1,444
10/19/2016	FALSE	FALSE	FALSE	3.27	8.04	5.86	56%	41%	73%		1.37	5.9	5.9	274.00				13,391				14,158	10,346	1,444	13,391			14,158	10,346	1,444
10/20/2016	FALSE	FALSE	FALSE	3.29	8.21	5.78	57%	40%	70%		1.42	5.9	5.9									14,158	10,346	1,444				14,158	10,346	1,444
10/21/2016 10/22/2016	FALSE FALSE	FALSE FALSE	FALSE FALSE	3.27 3.25	8.28 8.60	5.74 5.61	57% 58%	39% 38%	69% 65%		1.44 1.53	5.9 5.9	5.9 5.8	296.00	238.00	0.80		14,170	11,393			14,159 14,389	10,477 10,785	1,444 1,444	14,170	11,393		14,159 14,389	10,477 10,785	1,444 1.444
10/23/2016	FALSE	FALSE	FALSE	3.20	8.21	5.62	57%	39%	68%		1.46	5.9	5.8									14,389	10,785	1,444				14,389	10,785	1,444
10/24/2016	FALSE	FALSE	TRUE	3.20	8.50	6.02	53%	38%	71%		1.41	5.9	5.8									14,527	10,713					14,527	10,713	
10/25/2016 10/26/2016	FALSE FALSE	FALSE FALSE	TRUE FALSE	4.60 4.00	18.57 10.81	8.91 7.32	52% 55%	25% 37%	48% 68%	inMaxAvgM	2.08 1.48	5.9 5.9	5.8 6.0	206.00	197.00	0.96		12,576	12,027			14,527 14,283	10,713 10,901		12,576	12,027		14,527 14,283	10,713 10,901	
10/27/2016	FALSE	FALSE	TRUE	3.47	9.37	6.63	52%	37%	71%		1.41	6.0	6.1	200.00	137.00	0.50		12,370	12,027			14,283	10,901		12,370	12,027		14,283	10,901	
10/28/2016	FALSE	FALSE	TRUE	3.59	14.88	6.97	52%	24%	47%	inMaxAvgM	2.13	6.0	6.2	244.00	199.00	0.82		14,184	11,568			14,272	10,984		14,184	11,568		14,272	10,984	
10/29/2016 10/30/2016	FALSE FALSE	FALSE FALSE	TRUE TRUE	4.00 3.65	15.90	7.26	55% 53%	25% 36%	46%	AvgMax	2.19 1.45	6.0 6.0	6.2 6.5									14,272 14,272	10,984 10,984					14,272	10,984 10,984	
10/30/2016	FALSE	FALSE	TRUE	3.50	10.01 9.52	6.90 6.77	52%	37%	69% 71%		1.45	6.0	6.7									14,542	11,167					14,272 14,542	11,167	
11/1/2016	FALSE	FALSE	FALSE	3.81	9.44	7.08	54%	40%	75%		1.33	6.1	6.9									14,542	11,167					14,542	11,167	
11/2/2016	FALSE	FALSE	FALSE	3.59	10.10	6.60	54%	36%	65%		1.53	6.1	6.9	145.00	131.00	0.90		7,981	7,211			13,813	10,673		7,981	7,211		13,813	10,673	
11/3/2016 11/4/2016	FALSE FALSE	FALSE FALSE	FALSE FALSE	3.45 1.93	8.87 8.67	6.37 5.98	54% 32%	39% 22%	72% 69%	inAvgMinM	1.39 1.45	6.1 6.1	6.7 6.7	123.40	148.00	1.20		6,154	7,381			13,813 13,047	10,673 10,307		6,154	7,381		13,813 13,047	10,673 10,307	
11/5/2016	FALSE	FALSE	FALSE	3.35	8.25	5.96	56%	41%	72%	J	1.38	6.1	6.6					,	,			12,671	10,228		ĺ	,		12,671	10,228	
11/6/2016	FALSE	FALSE	FALSE	3.00	8.45	5.94	51%	36%	70%		1.42	6.1	6.5									12,671	10,228					12,671	10,228	
11/7/2016 11/8/2016	FALSE FALSE	FALSE FALSE	FALSE FALSE	3.28 3.31	8.40 8.21	5.96 5.86	55% 56%	39% 40%	71% 71%		1.41 1.40	6.1 6.1	6.4 6.3									12,568 12,568	10,409 10,409					12,568 12,568	10,409 10,409	
11/9/2016	FALSE	FALSE	FALSE	3.33	7.99	5.82	57%	42%	73%		1.37	6.1	6.1									12,568	10,409					12,568	10,409	
11/10/2016	FALSE	FALSE	FALSE	3.27	7.89	5.81	56%	41%	74%		1.36	6.1	6.0	223.00	155.00	0.70		10,806	7,511			12,372	10,047		10,806	7,511		12,372	10,047	
11/11/2016 11/12/2016	FALSE FALSE	FALSE FALSE	FALSE FALSE	3.29 3.28	8.36 7.54	5.84 5.62	56% 58%	39% 44%	70% 75%		1.43 1.34	6.1 6.1	5.9 5.9	250.20	235.00	0.94		12,186	11,446			12,354 12,097	10,202 10,275		12,186	11,446		12,354 12,097	10,202 10,275	
11/13/2016	FALSE	FALSE	FALSE	3.19	7.95	5.67	56%	40%	71%		1.40	6.1	5.8									12,097	10,275					12,097	10,275	
11/14/2016	FALSE	FALSE	FALSE	3.23	8.01	5.81	56%	40%	73%		1.38	6.1	5.8									11,431	9,791					11,431	9,791	
11/15/2016 11/16/2016	FALSE FALSE	FALSE FALSE	FALSE FALSE	3.36 3.29	8.27 8.40	5.93 5.87	57% 56%	41% 39%	72% 70%		1.39 1.43	6.1 6.1	5.8 5.8	291.00	225.00	0.77		14,246	11,015			11,431 11,744	9,791 9,944		14,246	11,015		11,431 11,744	9,791 9,944	
11/17/2016	FALSE	FALSE	FALSE	3.28	7.96	5.84	56%	41%	73%		1.36	6.1	5.8					_ ,,_	,			11,744	9,944		_ ,,	,		11,744	9,944	
11/18/2016	FALSE	TRUE	FALSE	3.23	7.89	5.74	56%	41%	73%		1.37	6.1	5.8	256.00	246.00	0.96		12,255	11,776			11,795	10,148		12,255	11,776		11,795	10,148	
11/19/2016 11/20/2016	FALSE FALSE	TRUE TRUE	TRUE TRUE	3.31 4.43	12.93 11.05	7.15 7.89	46% 56%	26% 40%	55% 71%	AvgMax	1.81 1.40	6.1 6.2	5.8 6.1									11,618 11,618	10,148 10,148					11,618 11,618	10,148 10,148	
11/21/2016	FALSE	TRUE	FALSE	4.17	9.58	7.10	59%	44%	74%		1.35	6.2	6.3									11,299	9,992					11,299	9,992	
11/22/2016	FALSE	TRUE	TRUE	3.60	8.66	6.48	56%	42%	75%		1.34	6.2	6.4						10.55			11,299	9,992			:		11,299	9,992	
11/23/2016 11/24/2016	TRUE TRUE	TRUE TRUE	TRUE FALSE	3.68 3.49	8.83 8.79	6.59 5.82	56% 60%	42% 40%	75% 66%		1.34 1.51	6.3 6.3	6.5 6.5	278.00	228.00	0.82		15,279	12,531			11,741 11,741	10,274 10,274		15,279	12,531		11,741 11,741	10,274 10,274	
11/25/2016	TRUE	TRUE	FALSE	3.41	7.67	5.40	63%	44%	70%		1.42	6.2	6.4									11,741	10,274					11,741	10,274	
11/26/2016	TRUE	TRUE	TRUE	3.35	9.29	6.24	54%	36%	67%		1.49	6.2	6.5									11,636	10,055					11,636	10,055	
11/27/2016 11/28/2016	TRUE TRUE	TRUE TRUE	TRUE TRUE	1.83 3.62	9.05 9.28	6.67 6.72	27% 54%	20% 39%	74% 72%	inAvgMinM	1.36 1.38	6.2 6.2	6.5 6.3									11,636 11,273	10,055 9,839					11,636 11,273	10,055 9,839	
11/28/2016	FALSE	FALSE	FALSE	3.62	8.98	6.54	55%	40%	73%		1.38	6.2	6.3									11,273	9,839					11,273	9,839	
11/30/2016	FALSE	FALSE	FALSE	3.52	8.60	6.42	55%	41%	75%		1.34	6.2	6.2	242.00	240.00	0.99		12,957	12,850			11,483	10,215		12,957	12,850		11,483	10,215	
12/1/2016	FALSE	FALSE	FALSE	3.46	8.52	6.34	55%	41%	74%		1.34	6.2	6.2									11,483	10,215					11,483	10,215	

				Min	Max	Λνα				Flow	Diurnal	30-d Ava	7-d Avg of	i Influent	Influent		Influent	Ava Inf	Avg Inf	Avg Inf	Load	30-d Ava	30-d Ava	30-d Ava	non-SN	non-SN	non-SN	30-d Avg	30-d Avg	30-d Avg
Date	Butte Break?	CSU Break?	Precip?	Influent	Influent		Δνσ	Min % of Max	Avg % of Max	Outlier	Peak Factor	of Avg		TSS Conc.,	BOD Conc.,	BOD/TSS Ratio	NH3-N Conc.,	Avg Inf TSS Load,		, NH3 Load,	Outlier	of TSS				BOD Load,			of non-SN BOD Load,	
				Flow, mgd	Flow, mgd	d Flow, mgd	···•			Туре	(DPF)	Flow, mgd	mgd	mg/L	mg/L		mg/L	ppd	ppd	ppd	Type	Load, ppd	Load, ppd	Load, ppd	ppd	ppd	ppd	ppd		Load, ppd
12/2/2016	FALSE	FALSE	FALSE	3.32	8.34	6.13	54%	40%	74%		1.36	6.2	6.3	252.70	213.00	0.84		12,919	10,889			11,643	10,290		12,919	10,889		11,643	10,290	
12/3/2016 12/4/2016	FALSE FALSE	FALSE FALSE	FALSE FALSE	3.33 3.27	8.75 8.70	6.03 5.96	55% 55%	38% 38%	69% 69%		1.45 1.46	6.1 6.1	6.3 6.3									12,100 12,100	10,675 10,675					12,100 12,100	10,675 10,675	
12/5/2016	FALSE	FALSE	FALSE	2.81	10.22	6.06	46%	27%	59%		1.69	6.1	6.3									12,950	11,146					12,950	11,146	
12/6/2016 12/7/2016	FALSE FALSE	FALSE FALSE	FALSE TRUE	3.23 3.21	8.44 8.16	5.97 5.98	54% 54%	38% 39%	71% 73%		1.41 1.36	6.1 6.1	6.2 6.1	281.70	283.00	1.00		14,049	14,114			12,950 13,087	11,146 11,517		14,049	14,114		12,950 13,087	11,146 11,517	
12/8/2016	FALSE	FALSE	TRUE	3.51	10.05	7.05	50%	35%	70%		1.43	6.2	6.2									13,087	11,517					13,087	11,517	
12/9/2016 12/10/2016	FALSE FALSE	FALSE FALSE	TRUE TRUE	3.66 7.30	21.29 19.64	11.38 10.26	32% 71%	17% 37%		rgMinMaxAv inAvgAvgM	1.87 1.91	6.2 6.2	6.2 6.2	125.90	134.00	1.06		11,949	12,718			12,961 12,961	11,650 11,650		11,949	12,718		12,961 12,961	11,650 11,650	
12/11/2016	FALSE	FALSE	FALSE	4.81	11.43	8.27	58%	42%	72%	1117 (46) (46)	1.38	6.3	6.5									13,230	12,167					13,230	12,167	
12/12/2016	FALSE	FALSE	FALSE	4.06	10.62	7.49	54%	38%	71%		1.42	6.3	6.8									13,379	12,271					13,379	12,271	
12/13/2016 12/14/2016	FALSE FALSE	FALSE FALSE	TRUE TRUE	3.68 4.30	10.02 11.48	7.09 8.44	52% 51%	37% 37%	71% 74%		1.41 1.36	6.4 6.5	7.0 7.4				16.90			1,190		13,379 13,379	12,271 12,271	1,190			1,190	13,379 13,379	12,271 12,271	1,190
12/15/2016	FALSE	FALSE	TRUE	5.58	18.88	13.07	43%	30%	69%		1.44	6.8	8.6	242.80	180.00	0.74		26,466	19,621		TSS	13,379	13,189	1,190	26,466	19,621		13,379	13,189	1,190
12/16/2016 12/17/2016	TRUE TRUE	TRUE TRUE	FALSE FALSE	9.30 6.10	17.60 12.29	12.53 9.36	74% 65%	53% 50%	71% 76%	MinAvg	1.40 1.31	6.8 6.9	8.9 9.0									13,379 13,235	13,189 13,500	1,190 1,190				13,379 13,235	13,189 13,500	1,190 1,190
12/18/2016	TRUE	TRUE	FALSE	4.77	11.66	7.95	60%	41%	68%		1.47	7.0	8.8									13,235	13,500	1,190				13,235	13,500	1,190
12/19/2016 12/20/2016	TRUE TRUE	TRUE TRUE	FALSE FALSE	4.24 4.08	10.10 9.38	7.58 7.14	56% 57%	42% 43%	75% 76%		1.33 1.31	7.1 7.1	8.7 8.7	152.90				9,666				12,803 12,803	13,787 13,787	1,190 1,190	9,666			12,803 12,803	13,787 13,787	1,190 1,190
12/21/2016	TRUE	TRUE	FALSE	3.79	8.99	6.85	55%	42%	76%		1.31	7.0	8.6	170.40				9,735				12,365	13,787	1,190	9,735			12,365	13,787	1,190
12/22/2016	TRUE	TRUE	FALSE	3.64	9.11	6.68	54%	40%	73%		1.36	7.0	8.4	190.70	182.00	0.95		10,624	10,139			12,147	13,266	1,190	10,624	10,139		12,147	13,266	1,190
12/23/2016 12/24/2016	TRUE TRUE	TRUE TRUE	TRUE FALSE	3.75 4.64	11.43 10.61	7.49 7.50	50% 62%	33% 44%	66% 71%		1.53 1.41	7.1 7.1	7.6 7.6									12,147 11,700	13,266 13,389	1,190 1,190				12,147 11,700	13,266 13,389	1,190 1,190
12/25/2016	TRUE	TRUE	FALSE	3.81	8.23	6.04	63%	46%	73%		1.36	7.1	7.2									11,700	13,389	1,190				11,700	13,389	1,190
12/26/2016 12/27/2016	TRUE TRUE	TRUE TRUE	FALSE FALSE	3.56 3.43	9.04 8.70	6.21 6.30	57% 54%	39% 39%	69% 72%		1.46 1.38	7.1 7.1	6.9 6.8									11,700 11,700	13,389 13,389	1,190 1,190				11,700 11,700	13,389 13,389	1,190 1,190
12/28/2016	TRUE	TRUE	FALSE	3.61	8.54	6.18	58%	42%	72%		1.38	7.1	6.7	190.00	187.00	0.98		9,793	9,638			11,462	12,853	1,190	9,793	9,638		11,462	12,853	1,190
12/29/2016 12/30/2016	TRUE TRUE	TRUE TRUE	FALSE FALSE	3.45 3.45	8.07 8.13	6.03 5.94	57% 58%	43% 42%	75% 73%		1.34 1.37	7.1 7.1	6.6 6.5	265.90				13,173				11,462 11,652	12,853 12,853	1,190 1,190	13,173			11,462 11,652	12,853 12,853	1,190 1,190
12/31/2016	TRUE	TRUE	TRUE	3.47	8.37	5.89	59%	41%	70%		1.42	7.0	6.3	203.30				13,173				11,488	12,853	1,190	13,173			11,488	12,853	1,190
1/1/2017	TRUE	TRUE	TRUE	3.38	7.71	5.48	62%	44%	71%		1.41	7.0	6.0									11,488	12,853	1,190				11,488	12,853	1,190
1/2/2017 1/3/2017	TRUE TRUE	TRUE TRUE	FALSE TRUE	3.34 3.35	8.42 12.17	5.80 6.75	58% 50%	40% 28%	69% 55%	AvgMax	1.45 1.80	7.0 7.0	6.0 5.9									11,284 11,284	13,246 13,246	1,190 1,190				11,284 11,284	13,246 13,246	1,190 1,190
1/4/2017	TRUE	TRUE	FALSE	6.56	11.97	9.22	71%	55%		inAvgMinM	1.30	7.1	5.9	174.20	189.00	1.08		13,395	14,533			11,548	13,461	1,190	13,395	14,533		11,548	13,461	1,190
1/5/2017 1/6/2017	TRUE TRUE	TRUE TRUE	FALSE FALSE	4.36 3.95	9.74 9.31	7.55 7.03	58% 56%	45% 42%	78% 76%		1.29 1.32	7.1 7.2	6.1 6.3	107.80				6,788				11,019 11,019	13,461 13,461	1,190 1,190	6,788			11,019 11,019	13,461 13,461	1,190 1,190
1/7/2017	TRUE	TRUE	TRUE	3.80	12.40	8.17	47%	31%	66%		1.52	7.3	6.7									10,640	13,330	1,190				10,640	13,330	1,190
1/8/2017 1/9/2017	TRUE TRUE	TRUE TRUE	TRUE TRUE	6.68 7.99	17.91 15.14	12.79 11.28	52% 71%	37% 53%	71% 75%	MinAvg	1.40 1.34	7.5 7.5	7.8 8.3									10,640 10,453	13,330 13,483	1,190 1,190				10,640 10,453	13,330 13,483	1,190 1,190
1/10/2017	TRUE	TRUE	TRUE	6.51	14.41	10.70	61%	45%	74%	IVIIIIAVg	1.35	7.6	9.2									10,453	13,483	1,190				10,453	13,483	1,190
1/11/2017	TRUE	TRUE	FALSE	7.64	14.07	10.74	71%	54%	76%	MinAvg	1.31	7.6	9.2	136.00	116.00	0.85		12,182	10,390			10,669	12,864	1,190	12,182	10,390		10,669	12,864	1,190
1/12/2017 1/13/2017	TRUE TRUE	TRUE TRUE	TRUE FALSE	5.87 5.16	12.38 11.64	9.37 8.53	63% 60%	47% 44%	76% 73%		1.32 1.36	7.6 7.7	9.3 9.4	129.70	115.00	0.89		10,136	8,987			10,610 10,610	12,218 12,218	1,190 1,190	10,136	8,987		10,610 10,610	12,218 12,218	1,190 1,190
1/14/2017	TRUE	TRUE	FALSE	4.73	11.14	7.94	60%	42%	71%		1.40	7.7	9.6									10,610	12,218					10,610	12,218	
1/15/2017 1/16/2017	TRUE TRUE	TRUE TRUE	FALSE TRUE	4.29 4.10	10.64 10.48	7.41 7.46	58% 55%	40% 39%	70% 71%		1.44 1.40	7.5 7.5	9.5 8.6									10,610 10,610	10,738 10,738					10,610 10,610	10,738 10,738	
1/17/2017	TRUE	TRUE	FALSE	3.82	9.84	7.14	54%	39%	73%		1.38	7.4	8.4									10,610	10,738					10,610	10,738	
1/18/2017	TRUE	TRUE	TRUE	3.70	13.50	8.07	46%	27%	60%		1.67	7.4	8.0	213.50 206.60	164.00	0.77		14,369 17,299	11,038			10,986	10,788		14,369 17,299	11,038		10,986	10,788	
1/19/2017 1/20/2017	TRUE TRUE	TRUE TRUE	TRUE TRUE	6.82 6.34	13.49 15.09	10.04 11.59	68% 55%	51% 42%	74% 77%		1.34 1.30	7.5 7.6	8.2 8.5	200.00				17,299				11,749 11,749	10,788 10,788		17,299			11,749 11,749	10,788 10,788	
1/21/2017	TRUE	TRUE	TRUE	6.96	12.81	10.18	68%	54%	79%		1.26	7.8	8.7									11,973	10,788					11,973	10,788	
1/22/2017 1/23/2017	TRUE TRUE	TRUE TRUE	TRUE FALSE	8.11 6.45	15.17 13.37	11.72 10.25	69% 63%	53% 48%	77% 77%		1.29 1.30	7.9 8.0	9.2 9.6									12,142 12,142	10,917 10,917					12,142 12,142	10,917 10,917	
1/24/2017	FALSE	FALSE	TRUE	5.29	13.08	9.61	55%	40%	73%		1.36	8.1	9.8									12,142	10,917					12,142	10,917	
1/25/2017	FALSE	FALSE	FALSE	4.98	12.39	8.89	56%	40%	72%		1.39	8.2	10.0	167.70	149.00	0.89		12,434	11,047			12,174	10,939		12,434	11,047		12,174	10,939	
1/26/2017 1/27/2017	FALSE FALSE	FALSE FALSE	FALSE FALSE	4.56 4.07	11.42 10.70	8.34 7.84	55% 52%	40% 38%	73% 73%		1.37 1.36	8.3 8.4	10.1 9.8	155.50	154.00	0.99		10,816	10,712			12,038 12,038	10,906 10,906		10,816	10,712		12,038 12,038	10,906 10,906	
1/28/2017	FALSE	FALSE	FALSE	4.03	10.66	7.44	54%	38%	70%		1.43	8.4	9.3									12,288	11,118					12,288	11,118	
1/29/2017 1/30/2017	FALSE FALSE	FALSE FALSE	FALSE FALSE	3.77 3.59	10.86 9.74	7.34 7.07	51% 51%	35% 37%	68% 73%		1.48 1.38	8.5 8.5	8.9 8.3									12,288 12,177	11,118 11,118					12,288 12,177	11,118 11,118	
1/31/2017	FALSE	FALSE	FALSE	3.71	9.80	6.97	53%	38%	71%		1.41	8.5	7.9									12,177	11,118					12,177	11,118	
2/1/2017	FALSE	FALSE	FALSE	3.66	9.86	6.95	53%	37%	70%		1.42	8.6	7.6	195.00	200.00	1.00		10.034	11 700			12,177	11,118		10.024	11 700		12,177	11,118	
2/2/2017	FALSE	FALSE	TRUE	3.47	9.47	7.02	49%	37%	74%		1.35	8.6	7.4	185.00	200.00	1.08		10,831	11,709			12,028	11,202		10,831	11,709		12,028	11,202	

											Diurnal				Influent		Influent											30-d Avg	30-d Avg	30-d Avg
Date	Butte	CSU	Precip?	Min Influent	Max Influent	Avg Influent	Min % of	Min % of		Flow Outlier	Peak		7-d Avg of Avg Flow.	Influent TSS Conc.,	BOD	BOD/TSS	NH3-N	Avg Inf TSS Load.	Avg Inf BOD Load,	Avg Inf NH3 Load.	Load Outlier	30-d Avg of TSS		30-d Avg of NH3-N				of non-SN	of non-SN	of non-SN
	Break?	Break?				flow, mgd	Avg	Max	Max	Туре	Factor (DPF)	Flow, mgd		mg/L	Conc., mg/L	Ratio	Conc., mg/L	ppd	ppd	ppd	Туре			Load, ppd		ppd	ppd	TSS Load, ppd	BOD Load, ppd	NH3-N Load, ppd
2/3/2017	FALSE	FALSE	TRUE	4.33	11.73	8.07	54%	37%	69%		1.45	8.6	7.3	198.60	216.00	1.09		13,367	14,538			12,162	11,619		13,367	14,538		12,162	11,619	
2/4/2017 2/5/2017	FALSE FALSE	FALSE FALSE	TRUE TRUE	4.73 4.12	11.89 11.89	8.15 7.61	58% 54%	40% 35%	69% 64%		1.46 1.56	8.6 8.6	7.4 7.4									12,025 12,679	11,203 11,203					12,025 12,679	11,203 11,203	
2/6/2017	FALSE	FALSE	TRUE	4.10	11.49	7.95	52%	36%	69%		1.45	8.6	7.5									12,679	11,203					12,679	11,203	
2/7/2017	FALSE	FALSE	TRUE	8.85	15.12	12.03	74%	59%		inAvgMinM	1.26	8.7	7.5	192 50	122.00	0.72		16 120	11 602			12,679	11,203		16 120	11 602		12,679	11,203	
2/8/2017 2/9/2017	FALSE FALSE	FALSE FALSE	TRUE TRUE	6.23 5.74	13.28 13.78	10.54 10.56	59% 54%	47% 42%	79% 77%		1.26 1.30	8.6 8.6	8.0 8.6	183.50 173.00	132.00 152.00	0.72 0.88		16,130 15,236	11,603 13,387			13,063 13,280	11,253 11,490		16,130 15,236	11,603 13,387		13,063 13,280	11,253 11,490	
2/10/2017	FALSE	FALSE	FALSE	6.72	13.49	10.32	65%	50%	77%		1.31	8.6	9.0					•	,			13,280	11,490		•	,		13,280	11,490	
2/11/2017	FALSE FALSE	FALSE FALSE	TRUE FALSE	5.28 4.74	12.89 12.29	9.04 8.38	58% 57%	41% 39%	70% 68%		1.43 1.47	8.6 8.6	9.2 9.2									13,402 13,810	11,628 12,005					13,402 13,810	11,628 12,005	
2/12/2017 2/13/2017	FALSE	FALSE	FALSE	4.74	10.99	8.21	53%	40%	75%		1.34	8.6	9.3									13,810	12,005					13,810	12,005	
2/14/2017	FALSE	FALSE	FALSE	4.24	10.96	8.05	53%	39%	73%		1.36	8.6	9.3									13,810	12,005					13,810	12,005	
2/15/2017 2/16/2017	FALSE FALSE	FALSE FALSE	FALSE TRUE	3.78 4.00	10.53 10.05	7.57 7.68	50% 52%	36% 40%	72% 76%		1.39 1.31	8.6 8.6	9.1 8.7	257.40	206.00	0.80		16,487	13,195			13,810 14,108	12,005 12,154		16,487	13,195		13,810 14,108	12,005 12,154	
2/17/2017	FALSE	FALSE	TRUE	4.10	15.64	9.94	41%	26%	64%	MinAvg	1.57	8.7	8.5	224.00	212.00	0.95		18,570	17,575			14,554	12,756		18,570	17,575		14,554	12,756	
2/18/2017	FALSE	FALSE	TRUE	9.56	17.77	13.72	70%	54%	77%	MinAvg	1.30	8.7	8.2									14,574	12,971					14,574	12,971	
2/19/2017 2/20/2017	FALSE FALSE	FALSE FALSE	TRUE TRUE	7.52 7.94	13.82 16.00	11.10 12.21	68% 65%	54% 50%	80% 76%		1.25 1.31	8.7 8.8	8.5 9.1									14,234 14,234	12,971 12,971					14,234 14,234	12,971 12,971	
2/21/2017	FALSE	FALSE	FALSE	7.92	15.29	11.47	69%	52%	75%		1.33	8.8	9.7									14,234	12,971					14,234	12,971	
2/22/2017	FALSE	FALSE	TRUE	6.02	13.05	9.95	61%	46%	76%		1.31	8.7	10.0	173.10	146.00	0.84		14,364	12,116			14,248	12,876		14,364	12,116		14,248	12,876	
2/23/2017 2/24/2017	FALSE FALSE	FALSE FALSE	TRUE FALSE	5.42 4.92	12.12 11.54	9.16 8.68	59% 57%	45% 43%	76% 75%		1.32 1.33	8.7 8.7	10.3 10.4									14,248 14,248	12,876 12,876					14,248 14,248	12,876 12,876	
2/25/2017	FALSE	FALSE	FALSE	4.48	11.60	8.11	55%	39%	70%		1.43	8.6	10.1									14,475	13,104					14,475	13,104	
2/26/2017	FALSE	FALSE	FALSE	4.26	11.20	7.86	54%	38%	70%		1.42	8.6	9.8									14,998	13,446					14,998	13,446	
2/27/2017 2/28/2017	FALSE FALSE	FALSE FALSE	FALSE FALSE	3.85 3.75	10.33 10.29	7.64 7.40	50% 51%	37% 36%	74% 72%		1.35 1.39	8.6 8.6	9.4 8.8									14,998 14,998	13,446 13,446					14,998 14,998	13,446 13,446	
3/1/2017	FALSE	FALSE	FALSE	3.61	10.25	7.17	50%	35%	70%		1.43	8.6	8.2	194.30	209.00	1.08		11,619	12,498			14,575	13,327		11,619	12,498		14,575	13,327	
3/2/2017	FALSE	FALSE	FALSE	3.49	9.67	7.03	50%	36%	73%		1.38	8.6	7.9	111.20	98.00	0.88		6,520	5,746			13,680	12,485		6,520	5,746		13,680	12,485	
3/3/2017 3/4/2017	FALSE FALSE	FALSE FALSE	FALSE TRUE	3.49 3.60	9.46 9.97	6.92 6.77	50% 53%	37% 36%	73% 68%		1.37 1.47	8.6 8.6	7.6 7.4									13,680 13,680	12,485 12,485					13,680 13,680	12,485 12,485	
3/5/2017	FALSE	FALSE	FALSE	3.50	10.17	6.76	52%	34%	66%		1.50	8.6	7.2									14,037	12,582					14,037	12,582	
3/6/2017	FALSE	FALSE	FALSE	3.46	9.40	6.69	52%	37%	71%		1.41	8.5	7.0									14,132	12,303					14,132	12,303	
3/7/2017 3/8/2017	FALSE FALSE	FALSE FALSE	FALSE FALSE	3.41 3.31	9.53 9.28	6.59 6.48	52% 51%	36% 36%	69% 70%		1.45 1.43	8.5 8.4	6.9 6.8	239.70	241.00	1.01		12,954	13,024			14,132 13,985	12,303 12,393		12,954	13,024		14,132 13,985	12,303 12,393	
3/9/2017	FALSE	FALSE	FALSE	3.36	9.04	6.48	52%	37%	72%		1.40	8.4	6.7	218.00	241.00	1.11		11,781	13,024			13,740	12,463		11,556	12,920		13,715	12,451	
3/10/2017	FALSE	TRUE	FALSE	3.44	8.85	6.26	55%	39%	71%		1.41	8.3	6.6									13,740	12,463					13,715	12,451	
3/11/2017 3/12/2017	FALSE FALSE	TRUE TRUE	FALSE FALSE	3.33 3.31	8.84 7.84	5.96 5.60	56% 59%	38% 42%	67% 71%		1.48 1.40	8.2 8.0	6.5 6.4									13,441 13,185	12,570 12,454					13,413 13,153	12,557 12,439	
3/13/2017	FALSE	TRUE	FALSE	3.24	7.60	5.64	57%	43%	74%		1.35	7.8	6.2									13,185	12,454					13,153	12,439	
3/14/2017	FALSE	TRUE	FALSE	3.32	7.45	5.57	60%	45%	75%		1.34	7.7	6.1	245 50	240.00	0.00		11 560	11 200			13,185	12,454		11 560	11 200		13,153	12,439	
3/15/2017 3/16/2017	FALSE FALSE	TRUE TRUE	FALSE FALSE	3.27 3.29	7.35 7.48	5.65 5.65	58% 58%	44% 44%	77% 76%		1.30 1.32	7.6 7.5	6.0 5.9	245.50 242.70	240.00 239.00	0.98 0.98		11,568 11,436	11,309 11,262			12,983 12,811	12,311 12,194		11,568 11,436	11,309 11,262		12,955 12,786	12,298 12,183	
3/17/2017	TRUE	TRUE	FALSE	3.27	7.52	5.60	58%	43%	74%		1.34	7.4	5.7									12,811	12,194					12,786	12,183	
3/18/2017 3/19/2017	TRUE	TRUE TRUE	TRUE FALSE	3.28 3.17	8.09 8.39	5.60 5.82	59% 54%	41% 38%	69%		1.44 1.44	7.4 7.3	5.7 5.6									12,811 12,352	12,194					12,786 12,323	12,183 12,056	
3/19/2017	TRUE TRUE	TRUE	TRUE	3.17	8.39 8.44	6.21	52%	38%	69% 74%		1.44	7.3	5.7									11,463	12,069 11,283					11,431	11,268	
3/21/2017	TRUE	FALSE	TRUE	3.65	9.70	6.97	52%	38%	72%		1.39	7.3	5.9									11,463	11,283					11,431	11,268	
3/22/2017 3/23/2017	TRUE TRUE	FALSE FALSE	TRUE TRUE	3.91 4.02	10.37 10.60	7.72 7.53	51% 53%	38% 38%	74% 71%		1.34 1.41	7.1 7.0	6.2 6.4	288.40 235.90	271.00 204.00	0.94 0.86		18,569 14,815	17,448 12,811			12,351 12,625	12,053 12,138		18,569 14,815	17,448 12,811		12,323 12,600	12,040 12,126	
3/23/2017	TRUE	FALSE	TRUE	3.70	13.17	8.99	41%	28%	68%	MinAvg	1.41	6.8	6.5	233.30	204.00	0.00		17,013	12,011			12,625	12,138		17,013	12,011		12,600	12,126	
3/25/2017	FALSE	FALSE	FALSE	5.42	12.92	8.83	61%	42%	68%		1.46	6.8	7.0									12,408	12,140					12,379	12,127	
3/26/2017 3/27/2017	FALSE FALSE	FALSE FALSE	TRUE FALSE	4.39 3.89	11.45 10.53	8.03 7.61	55% 51%	38% 37%	70% 72%		1.43 1.38	6.8 6.7	7.3 7.6				21.00			1,333		12,408 12,408	12,140 12,140	1,333			1,333	12,379 12,379	12,127 12,127	1,333
3/28/2017	FALSE	FALSE	FALSE	3.86	11.00	7.40	52%	35%	67%		1.49	6.7	7.7				21.00			1,555		12,408	12,140	1,333			1,555	12,379	12,127	1,333
3/29/2017	FALSE	FALSE	FALSE	3.76	10.32	7.15	53%	36%	69%		1.44	6.7	7.8	160.00	178.00	1.11		9,541	10,614			12,089	11,971	1,333	9,541	10,614		12,064	11,959	1,333
3/30/2017 3/31/2017	FALSE FALSE	FALSE FALSE	FALSE FALSE	3.72 3.60	9.75 9.73	6.92 6.78	54% 53%	38% 37%	71% 70%		1.41 1.44	6.7 6.6	7.6 7.5	140.00	172.00	1.23		8,080	9,927			11,688 11,688	11,766 11,766	1,333 1,333	8,080	9,927		11,666 11,666	11,756 11,756	1,333 1,333
4/1/2017	FALSE	FALSE	FALSE	3.51	9.37	6.40	55%	37%	68%		1.46	6.6	7.4									11,696	11,685	1,333				11,671	11,674	1,333
4/2/2017	FALSE	FALSE	FALSE	3.42	9.38	6.38	54%	36%	68%		1.47	6.6	7.1									12,343	12,428	1,333				12,315	12,415	1,333
4/3/2017 4/4/2017	FALSE FALSE	FALSE FALSE	FALSE FALSE	3.33 3.42	9.19 9.59	6.42 6.42	52% 53%	36% 36%	70% 67%		1.43 1.49	6.6 6.6	6.9 6.7									12,343 12,343	12,428 12,428	1,333 1,333				12,315 12,315	12,415 12,415	1,333 1,333
4/5/2017	FALSE	FALSE	FALSE	3.34	9.43	6.33	53%	35%	67%		1.49	6.6	6.6	260.80	214.00	0.82		13,768	11,298			12,501	12,302	1,333	13,768	11,298		12,476	12,290	1,333
4/6/2017	FALSE	FALSE	TRUE	3.43	10.75	6.66	52%	32%	62%		1.61	6.6	6.5	254.40	198.00	0.78		14,130	10,998			12,664	12,172	1,333	14,130	10,998		12,642	12,161	1,333

											Diurnal				Influent		Influent											30-d Avg	30-d Avg	30-d Avg
Date	Butte	CSU	Precip?	Min Influent	Max Influent	Avg Influent		Min % of		Flow Outlier	Peak	30-d Avg of Avg		Influent TSS Conc.,	BOD	BOD/TSS	NH3-N	Avg Inf TSS Load,	Avg Inf BOD Load,	Avg Inf NH3 Load,	Load Outlier	30-d Avg of TSS	30-d Avg of BOD			non-SN BOD Load,	NH3 Load.	of non-SN	of non-SN	of non-SN
	Break?	Break?		Flow, mgd	d Flow, mgd	Flow, mgd	Avg	Max	Max	Туре	Factor (DPF)	Flow, mgd	mgd	mg/L	Conc., mg/L	Ratio	Conc., mg/L	ppd	ppd	ppd	Туре	Load, ppd	Load, ppd	Load, ppd	ppd	ppd	ppd	ppd	BOD Load, ppd	NH3-N Load, ppd
4/7/2017	FALSE	FALSE	TRUE	4.98	11.74	8.52	58%	42%	73%		1.38	6.6	6.7									12,664	12,172	1,333				12,642	12,161	1,333
4/8/2017 4/9/2017	FALSE FALSE	FALSE FALSE	TRUE FALSE	4.25 3.72	11.05 10.44	7.69 7.12	55% 52%	38% 36%	70% 68%		1.44 1.47	6.7 6.7	6.9 6.9									12,632 12,738	12,077 11,958	1,333 1,333				12,607 12,738	12,065 11,958	1,333 1,333
4/10/2017	FALSE	FALSE	FALSE	3.66	10.13	6.99	52%	36%	69%		1.45	6.7	7.0									12,738	11,958	1,333				12,738	11,958	1,333
4/11/2017	FALSE	FALSE	TRUE	3.64	9.73	6.99	52%	37%	72%		1.39	6.7	7.1	261.00	276.00	1.00		15 422	16 220			12,738	11,958	1,333	15 422	16 220		12,738	11,958	1,333
4/12/2017 4/13/2017	FALSE FALSE	FALSE FALSE	TRUE TRUE	3.66 4.23	9.57 10.21	7.09 7.81	52% 54%	38% 41%	74% 76%		1.35 1.31	6.8 6.9	7.2 7.4	261.00 209.90	276.00 237.00	1.06 1.13		15,433 13,672	16,320 15,437			13,038 13,101	12,443 12,742	1,333 1,333	15,433 13,672	16,320 15,437		13,038 13,101	12,443 12,742	1,333 1,333
4/14/2017	FALSE	FALSE	FALSE	4.37	10.73	7.80	56%	41%	73%		1.38	6.9	7.5					-,-	-, -			13,101	12,742	1,333	-,-	-, -		13,101	12,742	1,333
4/15/2017 4/16/2017	FALSE FALSE	FALSE FALSE	FALSE TRUE	3.92 3.67	9.50 9.74	7.04	56% 51%	41% 38%	74% 74%		1.35	7.0 7.0	7.3 7.3									13,272 13,501	12,902 13,107	1,333 1,333				13,272 13,501	12,902 13,107	1,333 1,333
4/17/2017	FALSE	FALSE	TRUE	4.36	10.09	7.18 8.05	54%	43%	80%		1.36 1.25	7.0	7.5									13,501	13,107	1,333				13,501	13,107	1,333
4/18/2017	FALSE	FALSE	TRUE	4.10	10.68	7.68	53%	38%	72%		1.39	7.2	7.5									13,501	13,107	1,333				13,501	13,107	1,333
4/19/2017 4/20/2017	FALSE FALSE	FALSE FALSE	TRUE FALSE	3.84 3.82	10.34 10.23	7.49 7.10	51% 54%	37% 37%	72% 69%		1.38 1.44	7.2 7.3	7.5 7.5	203.00	192.00	0.95		12,020	11,369			13,501 13,336	13,107 12,914	1,333 1,333	11,657	11,226		13,501 13,296	13,107 12,898	1,333 1,333
4/21/2017	FALSE	FALSE	FALSE	3.63	9.73	6.90	53%	37%	71%		1.41	7.3	7.4	182.00	179.00	0.98		10,473	10,301			13,050	12,652	1,333	10,473	10,301		13,014	12,638	1,333
4/22/2017	FALSE	FALSE	FALSE	3.68	8.88	6.68	55%	41%	75%		1.33	7.2	7.3									12,437	12,119	1,333				12,397	12,103	1,333
4/23/2017 4/24/2017	FALSE FALSE	FALSE FALSE	FALSE TRUE	3.99 3.44	9.00 9.45	7.66 6.71	52% 51%	44% 36%	85% 71%		1.17 1.41	7.2 7.2	7.3 7.3									12,140 12,140	12,033 12,033	1,333 1,333				12,094 12,094	12,015 12,015	1,333 1,333
4/25/2017	FALSE	FALSE	FALSE	3.34	9.08	6.43	52%	37%	71%		1.41	7.1	7.1									12,140	12,033	1,333				12,094	12,015	1,333
4/26/2017	FALSE	FALSE	TRUE	3.49	9.10	6.53	53%	38%	72%		1.39	7.1	6.9	269.60	242.00	0.90		14,682	13,179			12,422	12,160	1,333	14,682	13,179		12,382	12,144	1,333
4/27/2017 4/28/2017	FALSE FALSE	FALSE FALSE	TRUE FALSE	3.49 3.22	9.05 8.70	6.44 6.26	54% 51%	39% 37%	71% 72%		1.41 1.39	7.1 7.0	6.8 6.7									12,422 12,422	12,160 12,160					12,382 12,382	12,144 12,144	
4/29/2017	FALSE	FALSE	FALSE	3.30	8.42	6.02	55%	39%	71%		1.40	7.0	6.6									12,782	12,354					12,737	12,336	
4/30/2017	FALSE	FALSE	FALSE	3.26	8.26	5.95	55%	39%	72%		1.39	7.0	6.5									13,454	12,700					13,402	12,680	
5/1/2017 5/2/2017	FALSE FALSE	FALSE FALSE	FALSE FALSE	3.26 3.25	8.26 8.66	5.95 6.13	55% 53%	39% 38%	72% 71%		1.39 1.41	6.9 6.9	6.3 6.2									13,454 13,454	12,700 12,700					13,402 13,402	12,680 12,680	
5/3/2017	FALSE	FALSE	FALSE	3.29	8.57	5.99	55%	38%	70%		1.43	6.9	6.2	253.00	253.00	1.00		12,639	12,639			13,352	12,693		12,639	12,639		13,307	12,675	
5/4/2017	FALSE	FALSE	FALSE	3.30	8.47	6.08	54%	39%	72%		1.39	6.9	6.1	281.50				14,274				13,455	12,693		14,274			13,414	12,675	
5/5/2017 5/6/2017	FALSE FALSE	FALSE FALSE	FALSE FALSE	3.36 3.24	8.42 8.17	6.06 5.78	55% 56%	40% 40%	72% 71%		1.39 1.41	6.9 6.9	6.1 6.0									13,455 13,416	12,693 12,892					13,414 13,370	12,675 12,871	
5/7/2017	FALSE	FALSE	FALSE	3.14	8.10	5.73	55%	39%	71%		1.41	6.8	6.0									13,313	13,208					13,262	13,184	
5/8/2017 5/9/2017	FALSE FALSE	FALSE FALSE	FALSE FALSE	3.26 3.24	8.51 8.48	5.91 5.90	55% 55%	38% 38%	69% 70%		1.44 1.44	6.7 6.7	6.0 5.9									13,313 13,313	13,208 13,208					13,262 13,262	13,184 13,184	
5/10/2017	FALSE	FALSE	FALSE	3.24	8.35	5.91	55%	39%	71%		1.41	6.7	5.9									13,313	13,208					13,262	13,184	
5/11/2017	FALSE	FALSE	FALSE	3.27	8.30	5.99	55%	39%	72%		1.39	6.6	5.9	257.00	206.00	0.80		12,839	10,291			13,254	12,791		12,839	10,291		13,209	12,770	
5/12/2017 5/13/2017	FALSE FALSE	FALSE FALSE	FALSE FALSE	3.19 3.19	8.12 7.91	5.84 5.65	55% 56%	39% 40%	72% 71%		1.39 1.40	6.6 6.5	5.9 5.8	254.00	242.00	0.95		12,371	11,787			13,156 12,871	12,665 12,143		12,371	11,787		13,116 12,826	12,647 12,123	
5/14/2017	FALSE	FALSE	FALSE	3.14	7.95	5.60	56%	39%	70%		1.42	6.5	5.8									12,757	11,594					12,705	11,570	
5/15/2017	FALSE	FALSE	FALSE	3.18	7.96	5.92	54%	40%	74%		1.34	6.4	5.8										11,594					12,705	11,570	
5/16/2017 5/17/2017	FALSE FALSE	FALSE FALSE	FALSE FALSE	3.21 3.18	8.42 8.03	6.05 5.83	53% 55%	38% 40%	72% 73%		1.39 1.38	6.4 6.3	5.9 5.8	275.00	252.00	0.92		13,371	12,253			12,757 12,834	11,594 11,688		13,322	12,191		12,705 12,782	11,570 11,659	
5/18/2017	FALSE	FALSE	FALSE	3.29	8.24	5.85	56%	40%	71%		1.41	6.3	5.8	251.00	255.00	1.02		12,246	12,441			12,769	11,783		12,246	12,441		12,723	11,757	
5/19/2017	FALSE	FALSE	FALSE	3.26	7.89	5.85	56%	41%	74%		1.35	6.2	5.8									12,769	11,783					12,723	11,757	
5/20/2017 5/21/2017	FALSE FALSE	FALSE TRUE	FALSE FALSE	3.29 3.32	7.69 7.45	5.63 5.57	58% 60%	43% 45%	73% 75%		1.37 1.34	6.1 6.1	5.8 5.8									12,769 12,862	11,783 11,842					12,723 12,856	11,757 11,833	
5/22/2017	FALSE	TRUE	FALSE	3.24	7.88	5.66	57%	41%	72%		1.39	6.1	5.8									13,203	12,098					13,196	12,088	
5/23/2017 5/24/2017	FALSE	TRUE	FALSE FALSE	3.38	7.92	5.66	60%	43%	71%		1.40	6.0	5.8 5.7	264.60	221.00	0.84		12,490	10,432			13,114	11,860		12,490	10,432		13,108	11,851	
5/25/2017	FALSE FALSE	TRUE TRUE	FALSE	3.34 3.25	7.97 7.85	5.65 5.60	59% 58%	42% 41%	71% 71%		1.41 1.40	6.0 5.9	5.7									13,114 13,114	11,860 11,860					13,108 13,108	11,851 11,851	
5/26/2017	TRUE	TRUE	FALSE	3.20	7.67	5.51	58%	42%	72%		1.39	5.9	5.6	287.10	272.00	0.95		13,193	12,499			13,123	11,940		13,193	12,499		13,117	11,932	
5/27/2017 5/28/2017	TRUE TRUE	TRUE TRUE	FALSE FALSE	3.18 3.16	7.29 6.91	5.20 5.04	61% 63%	44% 46%	71% 73%		1.40 1.37	5.8 5.8	5.6 5.5									12,928 12,928	11,763 11,763					12,922 12,922	11,754 11,754	
5/29/2017	TRUE	TRUE	FALSE	3.10	7.21	5.27	59%	43%	73%		1.37	5.8	5.4									12,928	11,763					12,922	11,754	
5/30/2017	TRUE	TRUE	FALSE	3.11	7.50	5.56	56%	41%	74%		1.35	5.8	5.4									12,928	11,763					12,922	11,754	
5/31/2017 6/1/2017	TRUE TRUE	TRUE TRUE	TRUE FALSE	3.35 3.29	7.55 7.62	5.55 5.55	60% 59%	44% 43%	74% 73%		1.36 1.37	5.7 5.7	5.4 5.4	355.00 265.30	255.00 219.00	0.72 0.83		16,432 12,280	11,803 10,137			13,317 13,214	11,768 11,587		16,432 12,280	11,803 10,137		13,312 13,209	11,760 11,580	
6/2/2017	TRUE	TRUE	FALSE	3.21	7.45	5.29	61%	43%	71%		1.41	5.7	5.4	203.30	213.00	0.05		12,200	10,107			13,214	11,587		12,200	10,137		13,209	11,580	
6/3/2017	TRUE	TRUE	FALSE	3.12	7.14	5.17	60%	44%	72%		1.38	5.7	5.3									13,277	11,455					13,272	11,448	
6/4/2017 6/5/2017	TRUE TRUE	TRUE TRUE	FALSE FALSE	3.21 3.21	7.29 7.73	5.22 5.36	61% 60%	44% 42%	72% 69%		1.40 1.44	5.6 5.6	5.3 5.4									13,153 13,153	11,455 11,455					13,147 13,147	11,448 11,448	
6/6/2017	TRUE	TRUE	FALSE	3.19	7.53	5.38	59%	42%	71%		1.40	5.6	5.4									13,153	11,455					13,147	11,448	
6/7/2017	TRUE	TRUE	FALSE	3.26	7.63	5.52	59%	43%	72%		1.38	5.6	5.4	277.60	209.00	0.75		12,780	9,622			13,111	11,252		12,780	9,622		13,106	11,245	
6/8/2017	TRUE	TRUE	TRUE	3.23	7.62	5.76	56%	42%	76%		1.32	5.6	5.4	279.30	273.00	0.98		13,417	13,114			13,142	11,438		13,417	13,114		13,137	11,432	

				Min	Max	Avg				Flow	Diurnal	30-d Avg	7-d Avg of	Influent	Influent		Influent	Avg Inf	Avg Inf	Avg Inf	Load	30-d Avg	30-d Avg	30-d Δvø	non-SN	non-SN	non-SN	30-d Avg	30-d Avg 30-d	Avg
Date	Butte Break?	CSU Break?	Precip?	Influent	Influent	Influent	Δνσ	Min % of Max	Avg % of Max	Outlier	Peak Factor			TSS Conc.,	BOD Conc.,	BOD/TSS Ratio	NH3-N Conc.,			, NH3 Load,	Outlier	of TSS				BOD Load,	NH3 Load.	of non-SN TSS Load,	of non-SN of nor BOD Load, NH3	
	Dicur.	Dicak.		Flow, mgd	l Flow, mgd	Flow, mgd	A.R	IVIUA	IVIUA	Туре	(DPF)	Flow, mgd	mgd	mg/L	mg/L	Natio	mg/L	ppd	ppd	ppd	Type	Load, ppd	Load, ppd	Load, ppd	ppd	ppd	ppd	ppd	ppd Load,	_
6/9/2017	TRUE	TRUE	FALSE	3.26	7.30	5.44	60%	45%	75%		1.34	5.6	5.4									13,142	11,438					13,137	11,432	
6/10/2017 6/11/2017	TRUE TRUE	TRUE TRUE	FALSE FALSE	3.15 3.09	7.40 7.61	5.19 5.25	61% 59%	43% 41%	70% 69%		1.43 1.45	5.6 5.5	5.4 5.4									13,142 13,176	11,438 11,565					13,137 13,170	11,432 11,558	
6/12/2017	TRUE	TRUE	FALSE	3.15	7.09	5.43	58%	44%	77%		1.31	5.5	5.4									13,276	11,538					13,270	11,530	
6/13/2017	TRUE	TRUE	FALSE	3.22	7.46	5.39	60%	43%	72%		1.38	5.5	5.4									13,276	11,538					13,270	11,530	
6/14/2017 6/15/2017	TRUE TRUE	TRUE TRUE	FALSE FALSE	3.21 3.25	7.38 7.60	5.41 5.34	59% 61%	43% 43%	73% 70%		1.36 1.42	5.5 5.5	5.4 5.4									13,276 13,276	11,538 11,538					13,270 13,270	11,530 11,530	
6/16/2017	TRUE	TRUE	FALSE	3.20	7.50	5.25	61%	43%	70%		1.43	5.5	5.3	298.00	286.00	0.96		13,048	12,523			13,251	11,647		13,048	12,523		13,245	11,640	
6/17/2017	TRUE	TRUE	FALSE	3.21	7.14	5.12	63%	45%	72%		1.39	5.4	5.3									13,236	11,571					13,236	11,571	
6/18/2017 6/19/2017	TRUE TRUE	TRUE TRUE	FALSE FALSE	3.21 3.17	7.31 6.97	5.02 4.58	64% 69%	44% 45%	69% 66%		1.46 1.52	5.4 5.4	5.3 5.2	230.00	240.00	1.04		8,785	9,167			13,377 12,803	11,447 11,162		8,785	9,167		13,377 12,803	11,447 11,162	
6/20/2017	TRUE	TRUE	FALSE	4.30	7.00	5.35	80%	61%		inAvgMinM	1.31	5.4	5.2	250.00	240.00	1.04		0,703	3,107			12,803	11,162		0,703	3,107		12,803	11,162	
6/21/2017	TRUE	TRUE	FALSE	5.43	7.04	6.12	89%	77%		'gMinMaxA	1.15	5.4	5.1	269.00	252.00	0.94		13,730	12,862			12,906	11,351		13,730	12,862		12,906	11,351	
6/22/2017 6/23/2017	TRUE TRUE	TRUE TRUE	FALSE FALSE	3.20 3.23	7.35 7.25	5.35 5.25	60% 62%	44% 45%	73% 72%		1.37 1.38	5.3 5.3	5.1 5.1	252.00				11,244				12,740 12,768	11,351 11,466		11,036			12,719 12,745	11,351 11,466	
6/24/2017	TRUE	TRUE	FALSE	3.23	7.19	5.06	64%	45%	70%		1.42	5.3	5.1									12,768	11,466					12,745	11,466	
6/25/2017	TRUE	TRUE	FALSE	3.15	7.12	5.09	62%	44%	71%		1.40	5.3	5.1									12,768	11,466					12,745	11,466	
6/26/2017 6/27/2017	TRUE TRUE	TRUE TRUE	FALSE FALSE	3.17 3.23	7.10 7.50	5.31 5.35	60% 60%	45% 43%	75% 71%		1.34 1.40	5.3 5.3	5.1 5.2									12,715 12,715	11,318 11,318					12,688 12,688	11,318 11,318	
6/28/2017	TRUE	TRUE	FALSE	3.24	7.55	5.38	60%	43%	71%		1.40	5.3	5.3	301.00	264.00	0.88		13,506	11,845			12,802	11,318		13,506	11,845		12,779	11,384	
6/29/2017	TRUE	TRUE	FALSE	3.17	7.38	5.35	59%	43%	72%		1.38	5.3	5.3	267.00	202.00	0.76		11,913	9,013			12,713	11,121		11,913	9,013		12,693	11,121	
6/30/2017	TRUE	TRUE TRUE	FALSE FALSE	3.15 3.22	7.26	5.25	60% 64%	43%	72% 70%		1.38	5.3	5.3 5.2									12,713	11,121					12,693	11,121	
7/1/2017 7/2/2017	TRUE TRUE	TRUE	FALSE	3.22	7.16 6.80	5.04 4.85	65%	45% 46%	70%		1.42 1.40	5.3 5.3	5.2									12,300 12,303	11,035 11,164					12,277 12,277	11,035 11,164	
7/3/2017	TRUE	TRUE	FALSE	3.17	6.92	4.94	64%	46%	71%		1.40	5.2	5.2									12,303	11,164					12,277	11,164	
7/4/2017	TRUE	TRUE	FALSE	0.55	6.69	4.77	12%	8%		inAvgMinM	1.40	5.2	5.2	227.00	240.00	0.00		0.540	0.775			12,303	11,164		0.540	0.775		12,277	11,164	
7/5/2017 7/6/2017	TRUE TRUE	TRUE TRUE	FALSE FALSE	3.14 3.22	6.63 7.09	5.01 5.22	63% 62%	47% 45%	76% 74%		1.32 1.36	5.2 5.2	5.1 5.1	227.80 256.00	210.00	0.92		9,518 11,145	8,775			11,993 11,909	10,865 10,865		9,518 11,145	8,775		11,970 11,888	10,865 10,865	
7/7/2017	TRUE	TRUE	FALSE	3.18	7.27	5.20	61%	44%	72%		1.40	5.2	5.1	250.00				11,1-13				11,909	10,865		11,143			11,888	10,865	
7/8/2017	TRUE	TRUE	FALSE	3.28	6.99	5.03	65%	47%	72%		1.39	5.2	5.0									11,812	11,043					11,789	11,043	
7/9/2017 7/10/2017	TRUE TRUE	TRUE TRUE	FALSE FALSE	3.15 3.18	6.91 7.13	4.99 5.32	63% 60%	46% 45%	72% 75%		1.38 1.34	5.2 5.2	5.0 5.1									11,611 11,611	10,698 10,698					11,585 11,585	10,698 10,698	
7/10/2017	TRUE	TRUE	FALSE	3.29	7.13	5.33	62%	45%	72%		1.34	5.2	5.2									11,611	10,698					11,585	10,698	
7/12/2017	TRUE	TRUE	FALSE	3.32	7.53	5.36	62%	44%	71%		1.40	5.2	5.2	275.00	191.00	0.69		12,293	8,538			11,687	10,389		12,293	8,538		11,664	10,389	
7/13/2017 7/14/2017	TRUE TRUE	TRUE TRUE	FALSE FALSE	3.21 3.35	7.42 7.43	5.41 5.29	59% 63%	43% 45%	73% 71%		1.37 1.40	5.2 5.2	5.2 5.2	229.00	220.00 169.00	0.74		10,103	9,926 7,456			11,687 11,529	10,331 10,012		10,103	9,855 7,456		11,664 11,508	10,322 10,004	
7/14/2017	TRUE	TRUE	FALSE	3.23	7.43	5.06	64%	46%	72%		1.40	5.2	5.2	229.00	109.00	0.74		10,103	7,430			11,529	10,012		10,103	7,430		11,508	10,004	
7/16/2017	TRUE	TRUE	FALSE	3.19	6.85	4.99	64%	47%	73%		1.37	5.2	5.2									11,529	10,012					11,508	10,004	
7/17/2017	TRUE	TRUE	FALSE	3.31	7.08	5.27	63%	47%	74%		1.34	5.2	5.3									11,360	9,698					11,337	9,689	
7/18/2017 7/19/2017	TRUE TRUE	TRUE TRUE	FALSE FALSE	3.23 3.19	7.34 7.37	5.72 5.24	56% 61%	44% 43%	78% 71%		1.28 1.41	5.2 5.2	5.3 5.3	236.80	274.00	1.16		10,349	11,974			11,360 11,259	9,698 9,951		10,349	11,974		11,337 11,238	9,689 9,943	
7/20/2017	TRUE	TRUE	FALSE	3.19	7.33	5.24	61%	44%	71%		1.40	5.2	5.3		274.00	1.02		11,690	11,974			11,549	10,263		11,690	11,974		11,528	10,255	
7/21/2017	TRUE	TRUE	FALSE	3.20	7.34	5.20	62%	44%	71%		1.41	5.2	5.3									11,549	10,263					11,528	10,255	
7/22/2017 7/23/2017	TRUE TRUE	TRUE TRUE	FALSE FALSE	3.22 3.14	6.95 7.04	5.01 4.98	64% 63%	46% 45%	72% 71%		1.39 1.41	5.2 5.2	5.2 5.2									11,307 11,315	9,938 9,938					11,284 11,315	9,929 9,929	
7/24/2017	TRUE	TRUE	FALSE	3.18	7.01	5.19	61%	45%	74%		1.35	5.2	5.2									11,315	9,938					11,315	9,929	
7/25/2017	TRUE	TRUE	FALSE	3.13	7.06	5.19	60%	44%	74%		1.36	5.2	5.2	2.0	407.5	0 = 5		40.05	0 = 2 =			11,315	9,938		10.05	0.70-		11,315	9,929	
7/26/2017 7/27/2017	TRUE TRUE	TRUE TRUE	FALSE FALSE	3.20 3.10	7.31 7.13	5.23 5.19	61% 60%	44% 43%	72% 73%		1.40 1.37	5.2 5.2	5.2 5.2	249.00 255.00	197.00 222.00	0.79 0.87		10,861 11,038	8,593 9,609			11,264 11,242	9,788 9,770		10,861 11,038	8,593 9,609		11,264 11,242	9,780 9,763	
7/28/2017	TRUE	TRUE	FALSE	3.14	7.13	5.13	61%	44%	71%		1.40	5.2	5.1	255.00	222.00	0.07		11,030	5,505			11,242	9,770		11,000	5,005		11,242	9,763	
7/29/2017	TRUE	TRUE	FALSE	3.17	6.93	4.97	64%	46%	72%		1.39	5.2	5.1									10,990	9,540					10,990	9,532	
7/30/2017	TRUE	TRUE	FALSE	3.12	6.92	4.95	63%	45%	72%		1.40	5.2	5.1									10,875	9,606					10,875	9,597	
7/31/2017 8/1/2017	TRUE TRUE	TRUE TRUE	FALSE FALSE	3.14 3.27	7.20 7.37	5.31 5.33	59% 61%	44% 44%	74% 72%		1.36 1.38	5.2 5.2	5.1 5.2									10,875 10,875	9,606 9,606					10,875 10,875	9,597 9,597	
8/2/2017	TRUE	TRUE	FALSE	3.21	7.23	5.30	61%	44%	73%		1.36	5.2	5.2	272.80	187.00	0.69		12,058	8,266			11,006	9,457		12,058	8,266		11,006	9,449	
8/3/2017	TRUE	TRUE	FALSE	3.22	7.61	5.33	60%	42%	70%		1.43	5.2	5.2	177.00	134.00	0.76		7,868	5,957			10,692	9,107		7,868	5,957		10,692	9,100	
8/4/2017 8/5/2017	TRUE TRUE	TRUE TRUE	FALSE FALSE	3.18 3.17	7.22 7.20	5.21 5.09	61% 62%	44% 44%	72% 71%		1.39 1.41	5.2 5.2	5.2 5.2									10,692 10,823	9,107 9,144					10,692 10,823	9,100 9,136	
8/6/2017	TRUE	TRUE	FALSE	3.16	7.21	5.16	61%	44%	72%		1.40	5.2	5.2									10,782	9,144					10,782	9,136	
8/7/2017	TRUE	TRUE	FALSE	3.18	7.45	5.38	59%	43%	72%		1.38	5.2	5.3									10,782	9,144					10,782	9,136	
8/8/2017 8/9/2017	TRUE TRUE	TRUE TRUE	FALSE FALSE	3.29 3.37	7.29 7.60	5.44 5.44	60% 62%	45% 44%	75% 72%		1.34 1.40	5.2 5.2	5.3 5.3	258.80	230.00	0.89		11,742	10,435			10,782 10,889	9,144 9,273		11,742	10,435		10,782 10,889	9,136 9,266	
8/10/2017	TRUE	TRUE	FALSE	3.27	7.61	5.48	60%	43%	72%		1.39	5.2	5.3	245.90	212.00	0.86		11,238	9,689			10,924	9,311		11,238	9,689		10,924	9,304	

				Min	Max	Avg				Flow	Diurnal	30-d Avg	7-d Avg of	Influent	Influent		Influent	Avg Inf	Avg Inf	Avg Inf	Load	30-d Ava	30-d Ava	30-d Ava	non-SN	non-SN	non-SN	30-d Avg	30-d Avg 30-	-d Avg
Date	Butte Break?	CSU Break?	Precip?	Influent	Influent	Influent	Δνσ	Min % of Max	Avg % of Max	Outlier	Peak Factor			TSS Conc.,	BOD Conc.,	BOD/TSS Ratio	NH3-N Conc.,			NH3 Load,	Outlier	of TSS				BOD Load,			of non-SN of r BOD Load, N	non-SN IH3-N
				Flow, mgd	l Flow, mgd	Flow, mgd	J			Type	(DPF)	Flow, mgd	mgd	mg/L	mg/L		mg/L	ppd	ppd	ppd	Type	Load, ppd	Load, ppd	Load, ppd	ppd	ppd	ppd	ppd		ad, ppd
8/11/2017	TRUE	TRUE	FALSE	3.23	7.45	5.38	60%	43%	72%		1.38	5.2	5.3									10,924	9,311					10,924	9,304	
8/12/2017 8/13/2017	TRUE TRUE	TRUE TRUE	FALSE FALSE	3.24 3.19	7.38 7.42	5.21 5.27	62% 61%	44% 43%	71% 71%		1.42 1.41	5.2 5.2	5.3 5.3									10,772 10,772	9,388 9,328					10,772 10,772	9,381 9,328	
8/14/2017	TRUE	TRUE	FALSE	3.20	7.44	5.57	57%	43%	75%		1.34	5.2	5.4									10,855	9,562					10,855	9,562	
8/15/2017 8/16/2017	TRUE TRUE	TRUE TRUE	FALSE FALSE	3.26 3.19	7.72 7.81	5.56 5.54	59% 58%	42% 41%	72% 71%		1.39 1.41	5.3 5.3	5.4 5.4	222.65	241.00	1.08		10,287	11,135			10,855 10,792	9,562 9,737		10,287	11,135		10,855 10,792	9,562 9,737	
8/17/2017	TRUE	TRUE	FALSE	3.19	7.59	5.63	58%	41%	71%		1.41	5.3	5.5	254.00	308.00	1.08		11,926	14,462			10,792	10,209		11,926	14,462		10,792	10,209	
8/18/2017	TRUE	TRUE	FALSE	3.21	7.70	5.66	57%	42%	74%		1.36	5.3	5.5						•			10,906	10,209		•	·		10,906	10,209	
8/19/2017 8/20/2017	TRUE	TRUE TRUE	FALSE FALSE	3.26 3.16	8.27 8.48	5.65 5.80	58% 54%	39% 37%	68%		1.46 1.46	5.3	5.5 5.6									10,968	10,013 9,768					10,968	10,013 9,768	
8/21/2017	TRUE TRUE	TRUE	FALSE	3.15	8.85	5.84	54%	36%	68% 66%		1.52	5.3 5.3	5.7									10,877 10,877	9,768					10,877 10,877	9,768	
8/22/2017	FALSE	FALSE	FALSE	3.32	8.90	5.98	56%	37%	67%		1.49	5.4	5.7									10,877	9,768					10,877	9,768	
8/23/2017 8/24/2017	FALSE FALSE	FALSE FALSE	FALSE FALSE	3.15 3.20	8.78 8.57	5.89	53% 54%	36% 37%	67% 70%		1.49 1.44	5.4 5.4	5.7 5.8	265.00	306.00	1.15		13,017	15,032			11,115	10,353		13,017	15,032		11,115	10,353	
8/25/2017	FALSE	FALSE	FALSE	3.24	8.25	5.97 5.83	56%	39%	70%		1.44	5.4	5.8									11,115 11,115	10,353 10,353					11,115 11,115	10,353 10,353	
8/26/2017	FALSE	FALSE	FALSE	3.25	8.39	5.66	57%	39%	67%		1.48	5.5	5.8									11,147	10,573					11,147	10,573	
8/27/2017 8/28/2017	FALSE FALSE	FALSE FALSE	FALSE FALSE	3.16 3.25	8.57 8.89	5.66 5.82	56% 56%	37% 37%	66% 65%		1.51 1.53	5.5 5.5	5.8 5.8									11,163	10,711					11,163	10,711	
8/29/2017	FALSE	FALSE	FALSE	3.26	8.38	5.78	56%	39%	69%		1.45	5.5	5.8									11,163 11,163	10,711 10,711					11,163 11,163	10,711 10,711	
8/30/2017	FALSE	FALSE	FALSE	3.22	8.48	5.95	54%	38%	70%		1.43	5.6	5.8									11,163	10,711					11,163	10,711	
8/31/2017 9/1/2017	FALSE FALSE	FALSE FALSE	FALSE FALSE	3.18 3.21	8.65 8.22	5.82 5.80	55% 55%	37% 39%	67% 71%		1.49 1.42	5.6 5.6	5.8 5.8	236.40 228.60	329.00	1.39 1.38		11,475	15,969 15,286			11,202	11,368 11,803		11,475 11,058	15,969 15,286		11,202	11,368 11,803	
9/2/2017	FALSE	FALSE	FALSE	3.25	7.98	5.54	59%	41%	69%		1.42	5.6	5.8	228.00	316.00	1.50		11,058	15,200			11,186 11,076	12,245		11,036	13,200		11,186 11,076	12,245	
9/3/2017	FALSE	FALSE	FALSE	3.22	7.97	5.41	60%	40%	68%		1.47	5.6	5.7									11,535	13,144					11,535	13,144	
9/4/2017	FALSE	FALSE	FALSE	3.19	8.43	5.70	56%	38%	68%		1.48	5.6	5.7									11,535	13,144					11,535	13,144	
9/5/2017 9/6/2017	FALSE FALSE	FALSE FALSE	TRUE FALSE	3.25 3.36	8.35 8.58	5.92 6.00	55% 56%	39% 39%	71% 70%		1.41 1.43	5.6 5.7	5.7 5.8									11,535 11,535	13,144 13,144					11,535 11,535	13,144 13,144	
9/7/2017	FALSE	FALSE	FALSE	3.23	8.68	6.02	54%	37%	69%		1.44	5.7	5.8	294.50	390.00	1.32		14,786	19,581		BOD	11,941	13,144		14,786	19,581		11,941	13,144	
9/8/2017	FALSE	FALSE	FALSE	3.22	8.33	5.91	54%	39%	71%		1.41	5.7	5.8	237.40	315.00	1.33		11,701	15,526			11,915	13,442		11,701	15,526		11,915	13,442	
9/9/2017 9/10/2017	FALSE FALSE	FALSE FALSE	FALSE FALSE	3.20 3.22	8.33 8.41	5.72 5.80	56% 56%	38% 38%	69% 69%		1.46 1.45	5.7 5.7	5.8 5.8									11,936 12,036	13,871 14,568					11,936 12,036	13,871 14,568	
9/11/2017	FALSE	FALSE	FALSE	3.12	8.39	5.94	53%	37%	71%		1.41	5.7	5.9									12,036	14,568					12,036	14,568	
9/12/2017	FALSE	FALSE	FALSE	3.37	8.80	6.00	56%	38%	68%		1.47	5.8	5.9	405.50	224.00		50.90	. =	44.050	2,547	NH3	12,036	14,568				2,547	12,036	14,568	
9/13/2017 9/14/2017	FALSE FALSE	FALSE FALSE	FALSE FALSE	3.41 3.24	8.58 8.79	6.00 6.03	57% 54%	40% 37%	70% 69%		1.43 1.46	5.8 5.8	5.9 5.9	195.70 257.10	221.00 284.00	1.13 1.10		9,793 12,930	11,059 14,282			11,755 11,886	14,067 14,094		9,793 12,930	11,059 14,282		11,755 11,886	14,067 14,094	
9/15/2017	FALSE	FALSE	FALSE	3.21	8.23	5.92	54%	39%	72%		1.39	5.8	5.9	237.10	204.00	1.10		12,550	14,202			11,886	14,094		12,550	1-1,202		11,886	14,094	
9/16/2017	FALSE	FALSE	FALSE	3.27	8.45	5.74	57%	39%	68%		1.47	5.8	5.9									12,086	14,517					12,086	14,517	
9/17/2017 9/18/2017	FALSE FALSE	FALSE FALSE	FALSE FALSE	3.19 3.31	8.71 8.37	5.82 6.01	55% 55%	37% 40%	67% 72%		1.50 1.39	5.8 5.8	5.9 5.9									12,109 12,109	14,526 14,526					12,109 12,109	14,526 14,526	
9/19/2017	FALSE	FALSE	FALSE	3.15	8.36	5.99	53%	38%	72%		1.40	5.8	5.9									12,109	14,526					12,109	14,526	
9/20/2017	FALSE	FALSE	FALSE	3.25	8.59	6.09	53%	38%	71%		1.41	5.9	6.0	258.90	385.00	1.49		13,150	19,554			12,239	15,244		13,150	19,554		12,239	15,244	
9/21/2017 9/22/2017	FALSE FALSE	FALSE FALSE	FALSE FALSE	3.20 3.21	8.38 8.48	6.01 5.88	53% 55%	38% 38%	72% 69%		1.39 1.44	5.9 5.9	6.0 5.9	289.60	282.00	0.97		14,516	14,135			12,492 12,492	15,105 15,105		14,516	14,135		12,492 12,492	15,105 15,105	
9/23/2017	FALSE	FALSE	FALSE	3.16	8.57	5.73	55%	37%	67%		1.50	5.9	5.9									12,426	15,116					12,426	15,116	
9/24/2017	FALSE	FALSE	FALSE	3.21	8.79	5.87	55%	37%	67%		1.50	5.9	5.9									12,426	15,116					12,426	15,116	
9/25/2017 9/26/2017	FALSE FALSE	FALSE FALSE	FALSE FALSE	3.17 3.17	8.33 9.21	5.94 5.94	53% 53%	38% 34%	71% 64%		1.40 1.55	5.9 5.9	5.9 5.9									12,426 12,426	15,116 15,116					12,426 12,426	15,116 15,116	
9/27/2017	FALSE	FALSE	FALSE	3.24	8.53	5.90	55%	38%	69%		1.45	5.9	5.9	247.80				12,193				12,400	15,116		12,193			12,400	15,116	
9/28/2017	FALSE	FALSE	FALSE	3.22	8.81	5.93	54%	37%	67%		1.49	5.9	5.9	247.90	266.00	1.07		12,260	13,155			12,386	14,871		12,059	13,115		12,366	14,866	
9/29/2017 9/30/2017	FALSE FALSE	FALSE FALSE	FALSE FALSE	3.19 3.25	8.33 8.63	5.96 5.76	54% 56%	38% 38%	72% 67%		1.40 1.50	5.9 5.9	5.9 5.9									12,386 12,386	14,871 14,871					12,366 12,366	14,866 14,866	
10/1/2017	FALSE	FALSE	FALSE	3.14	8.56	5.78	54%	37%	68%		1.48	5.9	5.9									12,487	14,714					12,465	14,708	
10/2/2017	FALSE	FALSE	FALSE	3.13	8.31	5.80	54%	38%	70%		1.43	5.9	5.9									12,666	14,619					12,641	14,612	
10/3/2017 10/4/2017	FALSE FALSE	FALSE FALSE	FALSE FALSE	3.21 3.18	8.49 8.82	5.90 5.85	54% 54%	38% 36%	69% 66%		1.44 1.51	5.9 5.9	5.9 5.9	273.50	289.00	1.06		13,344	14,100			12,666 12,741	14,619 14,545		13,344	14,100		12,641 12,719	14,612 14,539	
10/4/2017	FALSE	FALSE	FALSE	3.14	8.21	5.75	55%	38%	70%		1.43	5.9	5.8	262.20	271.00	1.03		12,574	12,996			12,741	14,343		12,574	12,996		12,719	14,339	
10/6/2017	FALSE	FALSE	FALSE	3.12	8.37	5.85	53%	37%	70%		1.43	5.9	5.8									12,725	14,351					12,704	14,346	
10/7/2017 10/8/2017	FALSE FALSE	FALSE FALSE	FALSE FALSE	3.22 3.11	8.49 8.41	5.65 5.71	57% 54%	38% 37%	67% 68%		1.50 1.47	5.9 5.9	5.8 5.8									12,725 12,496	14,351					12,704 12,473	14,346 14,346	
10/8/2017	FALSE	FALSE	FALSE	3.11	8.41 8.19	5.71	52%	37% 37%	71%		1.47	5.9	5.8									12,496	14,351 14,183					12,473	14,346 14,177	
10/10/2017	FALSE	FALSE	FALSE	3.22	8.37	5.95	54%	38%	71%		1.41	5.9	5.8									12,595	14,183					12,570	14,177	
10/11/2017	FALSE	FALSE	FALSE	3.20	8.68	5.90	54%	37%	68%		1.47	5.9	5.8	265.80	284.00	1.07		13,079	13,975			12,649	14,157		13,079	13,975		12,626	14,152	
10/12/2017	FALSE	FALSE	FALSE	3.15	8.40	5.85	54%	38%	70%		1.44	5.9	5.8	345.50	262.00	0.76		16,857	12,783			13,069	14,004		10,85/	12,783		13,049	14,000	

				Min	Max	Avg				Flow	Diurnal	30-d Avg	7-d Ave of	Influent	Influent		Influent	Avg Inf	Avg Inf	Avg Inf	Load	30-d Avg	30-d Avg	30-d Avg	non-SN	non-SN	non-SN	30-d Avg	30-d Avg 3	30-d Avg
Date	Butte Break?	CSU Break?	Precip?	Influent	Influent	Influent	Δνσ	Min % of Max	Avg % of Max	Outlier	Peak Factor			TSS Conc.,	BOD Conc.,	BOD/TSS Ratio	NH3-N Conc.,			NH3 Load,	Outlier	of TSS		of NH3-N			NH3 Load.		of non-SN o BOD Load,	of non-SN NH3-N
	J. 60	J. 00		Flow, mgd	Flow, mgd	Flow, mgd				Туре	(DPF)	Flow, mgd	mgd	mg/L	mg/L		mg/L	ppd	ppd	ppd	Туре	Load, ppd	Load, ppd	Load, ppd	ppd	ppd	ppd	ppd		Load, ppd
10/13/2017	FALSE	FALSE	FALSE	3.20	8.47	5.84	55%	38%	69%		1.45	5.9	5.8									13,069	14,004					13,049	14,000	
10/14/2017 10/15/2017	FALSE FALSE	FALSE FALSE	FALSE FALSE	3.17 3.16	8.65 8.87	5.73 5.78	55% 55%	37% 36%	66% 65%		1.51 1.53	5.9 5.9	5.8 5.8									13,434 13,497	14,372 14,385					13,411 13,471	14,367 14,380	
10/16/2017	FALSE	FALSE	FALSE	3.17	8.44	5.86	54%	38%	69%		1.44	5.9	5.8									13,497	14,385					13,471	14,380	
10/17/2017	FALSE	FALSE	FALSE	3.22	8.39	5.88	55%	38%	70%		1.43	5.9	5.8	220.00	264.00	1.00		44.556	42.625			13,497	14,385		44.556	42.625		13,471	14,380	
10/18/2017 10/19/2017	FALSE FALSE	FALSE FALSE	FALSE TRUE	3.15 3.23	8.27 8.65	5.80 5.91	54% 55%	38% 37%	70% 68%		1.43 1.46	5.9 5.9	5.8 5.8	238.90 300.50	261.00 296.00	1.09 0.99		11,556 14,811	12,625 14,590			13,281 13,434	14,165 14,212		11,556 14,811	12,625 14,590		13,258 13,414	14,160 14,208	
10/20/2017	FALSE	FALSE	TRUE	3.27	8.37	6.04	54%	39%	72%		1.39	5.9	5.9	555.55	230.00	0.55		1.,011	2 1,000			13,434	14,212		1.,011	1.,550		13,414	14,208	
10/21/2017	FALSE	FALSE	FALSE	3.24	8.66	5.84	55%	37%	67%		1.48	5.9	5.9									13,466	13,545					13,443	13,540	
10/22/2017 10/23/2017	FALSE FALSE	FALSE FALSE	FALSE FALSE	3.24 3.17	8.74 8.44	5.84 5.89	55% 54%	37% 38%	67% 70%		1.50 1.43	5.8 5.8	5.9 5.9									13,334 13,334	13,460 13,460					13,309 13,309	13,455 13,455	
10/24/2017	FALSE	FALSE	FALSE	3.20	8.64	5.84	55%	37%	68%		1.48	5.9	5.9									13,334	13,460					13,309	13,455	
10/25/2017	FALSE	FALSE	FALSE	3.19	8.79	5.87	54%	36%	67%		1.50	5.9	5.9	281.50	194.00	0.69		13,781	9,497			13,384	12,965		13,781	9,497		13,362	12,960	
10/26/2017 10/27/2017	FALSE FALSE	FALSE FALSE	FALSE FALSE	3.24 3.24	8.39 8.44	5.95 5.93	54% 55%	39% 38%	71% 70%		1.41 1.42	5.9 5.9	5.9 5.9	276.00	232.00	0.84		13,696	11,513			13,415 13,415	12,804 12,804		13,696	11,513		13,395 13,395	12,799 12,799	
10/28/2017	FALSE	FALSE	FALSE	3.24	8.50	5.85	55%	38%	69%		1.45	5.8	5.9									13,551	12,804					13,528	12,799	
10/29/2017	FALSE	FALSE	FALSE	3.23	8.46	5.79	56%	38%	68%		1.46	5.8	5.9									13,712	12,760					13,712	12,760	
10/30/2017 10/31/2017	FALSE FALSE	FALSE FALSE	FALSE FALSE	3.33 3.20	8.41 8.72	5.90 5.85	56% 55%	40% 37%	70% 67%		1.43 1.49	5.8 5.8	5.9 5.9									13,712 13,712	12,760 12,760					13,712 13,712	12,760 12,760	
11/1/2017	FALSE	FALSE	FALSE	3.20	8.40	5.87	55%	38%	70%		1.43	5.8	5.9	257.60				12,611				13,590	12,760		12,611			13,590	12,760	
11/2/2017	FALSE	FALSE	FALSE	3.22	8.45	5.99	54%	38%	71%		1.41	5.9	5.9	135.70	91.00	0.67		6,779	4,546			12,909	11,847		6,779	4,546		12,909	11,847	
11/3/2017 11/4/2017	FALSE	FALSE FALSE	TRUE TRUE	3.21 3.51	8.42	6.03	53% 55%	38% 37%	72%		1.40 1.50	5.9	5.9 6.0									12,909	11,847					12,909	11,847	
11/4/2017	FALSE FALSE	FALSE	FALSE	3.25	9.47 9.55	6.33 6.20	52%	34%	67% 65%		1.54	5.9 5.9	6.0									12,860 12,896	11,565 11,361					12,860 12,896	11,565 11,361	
11/6/2017	FALSE	FALSE	FALSE	3.25	8.63	6.07	54%	38%	70%		1.42	5.9	6.0									12,896	11,361					12,896	11,361	
11/7/2017	FALSE	FALSE	FALSE	3.26	8.42	6.01	54%	39%	71%		1.40	5.9	6.0	254.70	270.00	4.07		42.040	12.010			12,896	11,361		12.010	42.040		12,896	11,361	
11/8/2017 11/9/2017	FALSE FALSE	FALSE FALSE	TRUE TRUE	3.20 3.63	9.31 9.56	6.15 6.92	52% 52%	34% 38%	66% 72%		1.51 1.38	5.9 6.0	6.1 6.2	251.70 199.10	270.00 240.00	1.07 1.21		12,910 11,491	13,849 13,851			12,898 12,757	11,672 11,914		12,910 11,491	13,849 13,851		12,898 12,757	11,672 11,914	
11/10/2017	FALSE	FALSE	TRUE	3.40	9.54	6.51	52%	36%	68%		1.47	6.0	6.3	133.10	240.00	1.21		11,431	13,031			12,757	11,914		11,451	13,031		12,757	11,914	
11/11/2017	FALSE	FALSE	FALSE	3.38	9.00	6.15	55%	38%	68%		1.46	6.0	6.3									12,721	11,657					12,721	11,657	
11/12/2017 11/13/2017	FALSE FALSE	FALSE FALSE	FALSE TRUE	3.27 3.25	8.83 8.60	6.13 6.27	53% 52%	37% 38%	69% 73%		1.44 1.37	6.0 6.0	6.3 6.3									12,204 12,204	11,496 11,496					12,204 12,204	11,496 11,496	
11/14/2017	FALSE	FALSE	FALSE	3.34	8.69	6.23	54%	38%	72%		1.39	6.0	6.3									12,204	11,496					12,204	11,496	
11/15/2017	FALSE	FALSE	TRUE	3.27	9.50	6.65	49%	34%	70%		1.43	6.1	6.4	234.50	252.00	1.07		13,006	13,976			12,293	11,806		13,006	13,976		12,293	11,806	
11/16/2017 11/17/2017	FALSE FALSE	FALSE TRUE	TRUE FALSE	3.61 3.64	9.43 8.96	6.99 6.63	52% 55%	38% 41%	74% 74%		1.35 1.35	6.1 6.1	6.5 6.4	247.80	319.00	1.29		14,446	18,597			12,509 12,509	12,560 12,560		14,446	18,597		12,509 12,509	12,560 12,560	
11/17/2017	FALSE	TRUE	FALSE	3.62	8.64	6.13	59%	41%	71%		1.41	6.1	6.4									12,615	12,552					12,615	12,552	
11/19/2017	FALSE	TRUE	FALSE	3.47	8.51	5.92	59%	41%	70%		1.44	6.1	6.4									12,340	12,261					12,340	12,261	
11/20/2017	FALSE	TRUE	TRUE TRUE	3.46	8.63	6.18	56%	40%	72%		1.40	6.1	6.4	120.40	175.00	1 26		7 200	0.151			12,340	12,261		7 200	0.151		12,340	12,261	
11/21/2017 11/22/2017	FALSE TRUE	TRUE TRUE	FALSE	3.64 3.42	8.33 8.26	6.27 6.05	58% 57%	44% 41%	75% 73%		1.33 1.37	6.1 6.1	6.4 6.4	139.40	175.00	1.26		7,289	9,151			11,779 11,779	11,872 11,872		7,289	9,151		11,779 11,779	11,872 11,872	
11/23/2017	TRUE	TRUE	TRUE	3.26	9.03	5.47	60%	36%	61%		1.65	6.1	6.2									11,779	11,872					11,779	11,872	
11/24/2017	TRUE	TRUE	FALSE	3.21	7.67	5.22	61%	42%	68%		1.47	6.1	6.0									11,779	11,872					11,779	11,872	
11/25/2017 11/26/2017	TRUE TRUE	TRUE TRUE	FALSE TRUE	3.21 3.20	8.14 9.66	5.44 6.39	59% 50%	39% 33%	67% 66%		1.50 1.51	6.1 6.1	5.8 5.9									11,528 11,219	12,212 12,328					11,528 11,219	12,212 12,328	
11/27/2017	TRUE	TRUE	TRUE	3.39	9.28	6.85	49%	37%	74%		1.35	6.1	6.0									11,219	12,328					11,219	12,328	
11/28/2017	FALSE	FALSE	FALSE	3.43	9.11	6.65	52%	38%	73%		1.37	6.2	6.0	100.00				10.510	40.000			11,219	12,328			10.000		11,219	12,328	
11/29/2017 11/30/2017	FALSE FALSE	FALSE FALSE	FALSE FALSE	3.33 3.30	9.11 8.65	6.43 6.27	52% 53%	37% 38%	71% 72%		1.42 1.38	6.2 6.2	6.1 6.1	198.00 243.30	229.00 229.00	1.16 0.94		10,618 12,723	12,280 11,975			11,144 11,319	12,321 12,278		10,618 12,723	12,280 11,975		11,144 11,319	12,321 12,278	
12/1/2017	FALSE	FALSE	FALSE	3.35	8.45	6.18	54%	40%	73%		1.37	6.2	6.2	2 .5.55	223.00	0.5 .		12,723	11,575			11,319	12,278		12,720	11,575		11,319	12,278	
12/2/2017	FALSE	FALSE	FALSE	3.30	9.32	6.17	53%	35%	66%		1.51	6.2	6.3									11,158	12,278					11,158	12,278	
12/3/2017 12/4/2017	FALSE FALSE	FALSE FALSE	FALSE FALSE	3.25 3.20	8.96 8.48	6.17	53%	36%	69% 72%		1.45	6.2	6.4 6.4									11,783	13,383					11,783	13,383	
12/5/2017	FALSE	FALSE	FALSE	3.23	8.54	6.08 6.04	53% 53%	38% 38%	72% 71%		1.39 1.41	6.2 6.2	6.2									11,783 11,783	13,383 13,383					11,783 11,783	13,383 13,383	
12/6/2017	FALSE	FALSE	FALSE	3.20	8.58	6.05	53%	37%	71%		1.42	6.2	6.2	265.00	364.00	1.37		13,371	18,366			11,982	14,006		13,371	18,366		11,982	14,006	
12/7/2017 12/8/2017	FALSE	FALSE FALSE	FALSE FALSE	3.22	8.26	6.03 6.04	53%	39%	73%		1.37	6.2	6.1 6.1	240.60	281.00	1.17		12,100	14,132			11,995	14,020		12,100	14,132		11,995	14,020	
12/8/2017	FALSE FALSE	FALSE	FALSE	3.20 3.25	8.31 8.75	5.91	53% 55%	39% 37%	73% 68%		1.38 1.48	6.2 6.2	6.1									11,995 11,880	14,020 14,041					11,995 11,880	14,020 14,041	
12/10/2017	FALSE	FALSE	FALSE	3.19	8.70	5.90	54%	37%	68%		1.47	6.2	6.0									11,936	14,068					11,936	14,068	
12/11/2017	FALSE	FALSE	FALSE	3.13	8.13	5.98	52%	38%	74%		1.36	6.2	6.0									11,936	14,068					11,936	14,068	
12/12/2017 12/13/2017	FALSE FALSE	FALSE FALSE	FALSE FALSE	3.12 3.08	8.29 8.17	5.89 5.93	53% 52%	38% 38%	71% 73%		1.41 1.38	6.1 6.1	6.0 6.0	260.60	269.00	1.03		12,888	13,304			11,936 12,055	14,068 13,973		12,888	13,304		11,936 12,055	14,068 13,973	
12/14/2017	FALSE	FALSE	FALSE	3.12	7.89	5.94	53%	40%	75%		1.33	6.1	6.0	297.20	255.00	0.86		14,723	12,633			12,352	13,824		14,328	12,495		12,308	13,808	

				Min	Max	Avg				Flow	Diurnal	30-d Avg	7-d Avg of	f Influent	Influent		Influent	Avg Inf	Avg Inf	Avg Inf	Load	30-d Avg	30-d Avg	30-d Avg	non-SN	non-SN	non-SN		30-d Avg	
Date	Butte Break?	CSU Break?	Precip?	Influent		Influent	Min % of Avg	Min % of Max	Avg % of Max	Outlier Type	Peak Factor		Avg Flow,	TSS Conc., mg/L	BOD Conc.,	BOD/TSS Ratio	NH3-N Conc.,			, NH3 Load,	Outlier Type	of TSS		of NH3-N		BOD Load,	NH3 Load.		of non-SN of BOD Load,	of non-SN NH3-N
										Турс	(DPF)			1116/ -	mg/L		mg/L	ppu	рри	ppu	1,460			Loud, ppu	ppu	рри	ррч	ppd		Load, ppd
12/15/2017	TRUE	TRUE	FALSE	3.05	7.80	5.84	52%	39%	75%		1.34	6.1	5.9									12,352	13,824					12,308	13,808	
12/16/2017 12/17/2017	TRUE TRUE	TRUE TRUE	FALSE FALSE	3.15 3.11	7.97 7.79	5.61 5.51	56% 56%	40% 40%	70% 71%		1.42 1.41	6.1 6.0	5.9 5.8									12,270 11,959	13,805 13,120					12,220 11,903	13,787 13,100	
12/17/2017	TRUE	TRUE	FALSE	3.16	7.73	5.52	57%	43%	75%		1.34	6.0	5.8									11,959	13,120					11,903	13,100	
12/19/2017	TRUE	TRUE	FALSE	3.14	7.52	5.62	56%	42%	75%		1.34	6.0	5.7									11,959	13,120					11,903	13,100	
12/20/2017	TRUE	TRUE	TRUE	3.22	7.42	5.59	58%	43%	75%		1.33	6.0	5.7									11,959	13,120					11,903	13,100	
12/21/2017	TRUE	TRUE	FALSE	3.10	7.48	5.56	56%	41%	74%		1.35	6.0	5.6	270.90	274.00	1.01		12,562	12,705			12,034	13,068		12,562	12,705		11,985	13,051	
12/22/2017	TRUE	TRUE	FALSE	3.22	7.47	5.55	58%	43%	74%		1.35	5.9	5.6									12,712	13,628					12,656	13,608	
12/23/2017 12/24/2017	TRUE TRUE	TRUE TRUE	FALSE FALSE	3.14 3.13	7.93 7.90	5.42 5.23	58% 60%	40% 40%	68% 66%		1.46 1.51	5.9 5.9	5.5 5.5									12,712 12,712	13,628 13,628					12,656 12,656	13,608 13,608	
12/25/2017	TRUE	TRUE	FALSE	3.08	6.29	4.62	67%	49%	73%		1.36	5.9	5.4									12,712	13,628					12,656	13,608	
12/26/2017	TRUE	TRUE	FALSE	3.08	7.27	5.17	60%	42%	71%		1.41	5.9	5.3									12,712	13,628					12,656	13,608	
12/27/2017	TRUE	TRUE	FALSE	3.16	7.15	5.38	59%	44%	75%		1.33	5.8	5.3									12,712	13,628					12,656	13,608	
12/28/2017	TRUE	TRUE	FALSE	3.16	7.38	5.43	58%	43%	74%		1.36	5.8	5.3	261.70	339.00	1.30		11,851	15,352			12,605	13,843		11,851	15,352		12,555	13,826	
12/29/2017	TRUE	TRUE	FALSE	3.13	7.33	5.35	59%	43%	73%		1.37	5.8	5.3									12,605	13,843					12,555	13,826	
12/30/2017	TRUE	TRUE	FALSE	3.10	7.44	5.27	59%	42%	71%		1.41	5.7	5.2									12,888	14,067					12,832	14,047	
12/31/2017 1/1/2018	TRUE TRUE	TRUE TRUE	FALSE FALSE	3.01 3.06	7.76 6.98	5.31 4.99	57% 61%	39% 44%	68% 71%		1.46 1.40	5.7 5.6	5.2 5.2									12,916 12,916	14,415 14,415					12,850 12,850	14,392 14,392	
1/2/2018	TRUE	TRUE	FALSE	2.99	7.30	5.35	56%	41%	73%		1.36	5.6	5.3									12,916	14,415					12,850	14,392	
1/3/2018	TRUE	TRUE	FALSE	3.11	7.33	5.42	57%	42%	74%		1.35	5.6	5.3	278.30				12,580				12,868	14,415		12,580			12,812	14,392	
1/4/2018	TRUE	TRUE	TRUE	3.13	7.24	5.48	57%	43%	76%		1.32	5.6	5.3	255.70	280.00	1.10		11,686	12,797			12,720	14,184		11,686	12,797		12,671	14,164	
1/5/2018	TRUE	TRUE	TRUE	3.14	7.51	5.52	57%	42%	74%		1.36	5.6	5.3									12,720	14,184					12,671	14,164	
1/6/2018	TRUE	TRUE	TRUE	3.12	7.73	5.49	57%	40%	71%		1.41	5.5	5.4									12,627	13,487					12,571	13,464	
1/7/2018	TRUE	TRUE	FALSE	3.02	7.87	5.56	54%	38%	71%		1.42	5.5	5.4									12,715	13,358					12,649	13,331	
1/8/2018 1/9/2018	TRUE TRUE	TRUE TRUE	TRUE TRUE	3.06 7.70	10.98 11.66	6.65 9.80	46% 79%	28% 66%	61% 84%	inAvgMinM	1.65 1.19	5.5 5.5	5.6 5.6									12,715 12,715	13,358 13,358					12,649 12,649	13,331 13,331	
1/10/2018	TRUE	TRUE	TRUE	4.22	10.62	7.41	57%	40%	70%	IIIAvgiviiiiivi	1.43	5.6	5.9	176.70	217.00	1.23		10,920	13,410			12,459	13,367		10,920	13,410		12,402	13,344	
1/11/2018	TRUE	TRUE	FALSE	3.64	9.46	6.77	54%	38%	72%		1.40	5.6	6.1	167.60	192.00	1.15		9,463	10,841			12,084	13,006		9,302	10,772		12,015	12,976	
1/12/2018	TRUE	TRUE	FALSE	3.35	8.77	6.29	53%	38%	72%		1.39	5.6	6.2									12,084	13,006					12,015	12,976	
1/13/2018	TRUE	TRUE	FALSE	3.29	8.46	6.06	54%	39%	72%		1.40	5.6	6.3									11,969	12,956					11,890	12,922	
1/14/2018	TRUE	TRUE	FALSE	3.25	8.67	5.90	55%	37%	68%		1.47	5.6	6.4									11,510	13,021					11,484	13,007	
1/15/2018	TRUE	TRUE	TRUE	3.18	8.59	6.09	52%	37%	71%		1.41	5.6	6.5									11,510	13,021					11,484	13,007	
1/16/2018 1/17/2018	TRUE TRUE	TRUE TRUE	TRUE FALSE	3.37 3.35	8.44 8.65	6.14 6.13	55% 55%	40% 39%	73% 71%		1.37 1.41	5.7 5.7	6.4 6.3	219.40	283.00	1.29		11,217	14,468			11,510 11,468	13,021 13,262		11,217	14,468		11,484 11,445	13,007 13,251	
1/18/2018	TRUE	TRUE	TRUE	3.28	8.29	6.10	54%	40%	74%		1.36	5.7	6.2	237.80	359.00	1.51		12,098	18,264			11,547	13,202		12,098	18,264		11,527	13,967	
1/19/2018	TRUE	TRUE	FALSE	3.38	8.24	6.17	55%	41%	75%		1.34	5.7	6.1					,				11,547	13,977		,			11,527	13,967	
1/20/2018	TRUE	TRUE	FALSE	3.25	8.81	6.08	53%	37%	69%		1.45	5.7	6.1									11,547	13,977					11,527	13,967	
1/21/2018	TRUE	TRUE	TRUE	3.26	9.70	6.24	52%	34%	64%		1.55	5.8	6.1									11,402	14,189					11,379	14,177	
1/22/2018	TRUE	TRUE	TRUE	3.43	9.80	7.09	48%	35%	72%		1.38	5.8	6.3									11,402	14,189					11,379	14,177	
1/23/2018	FALSE	FALSE	FALSE	3.57	9.94	6.99	51%	36%	70%		1.42	5.9	6.4	200.70	356.00	1 22		11 000	14 (25			11,402	14,189		11 000	14 (25		11,379	14,177	
1/24/2018 1/25/2018	FALSE FALSE	FALSE FALSE	TRUE FALSE	3.42 3.43	9.52 9.53	6.85 6.85	50% 50%	36% 36%	72% 72%		1.39 1.39	5.9 6.0	6.5 6.5	209.70 190.70	256.00 290.00	1.22 1.52		11,980 10,895	14,625 16,567			11,474 11,410	14,251 14,541		11,980 10,895	14,625 16,567		11,454 11,392	14,241 14,532	
1/26/2018	FALSE	FALSE	FALSE	3.48	9.16	6.60	53%	38%	72%		1.39	6.0	6.6		_50.50	1.52		20,000	_3,307			11,410	14,541		13,033	23,307		11,392	14,532	
1/27/2018	FALSE	FALSE	FALSE	3.40	9.88	6.48	52%	34%	66%		1.52	6.1	6.6									11,410	14,541					11,392	14,532	
1/28/2018	FALSE	FALSE	FALSE	3.31	9.39	6.40	52%	35%	68%		1.47	6.1	6.7									11,355	14,425					11,335	14,415	
1/29/2018	FALSE	FALSE	FALSE	3.24	8.96	6.36	51%	36%	71%		1.41	6.1	6.7									11,355	14,425					11,335	14,415	
1/30/2018	FALSE	FALSE	FALSE	3.21	9.00	6.30	51%	36%	70%		1.43	6.2	6.6	204 50	204.00	1.20		15.005	10 700		000	11,355	14,425		15.005	10.700		11,335	14,415	
1/31/2018 2/1/2018	FALSE FALSE	FALSE FALSE	FALSE FALSE	3.20 3.33	8.99 8.62	6.23 6.17	51% 54%	36% 39%	69% 72%		1.44 1.40	6.2 6.2	6.5 6.4	301.50 234.70	381.00	1.26		15,665 12,077	19,796		BOD	11,834 11,858	14,425 14,425		15,665 12,077	19,796		11,816 11,842	14,415 14,415	
2/2/2018	FALSE	FALSE	FALSE	3.25	8.48	6.07	54%	38%	72%		1.40	6.3	6.3	234.70				12,077				11,858	14,425		12,077			11,842	14,415	
2/3/2018	FALSE	FALSE	FALSE	3.24	9.07	6.02	54%	36%	66%		1.51	6.3	6.3									11,778	14,425					11,760	14,415	
2/4/2018	FALSE	FALSE	FALSE	3.19	9.60	6.00	53%	33%	63%		1.60	6.3	6.2									11,789	14,696					11,769	14,684	
2/5/2018	FALSE	FALSE	FALSE	3.18	8.39	6.04	53%	38%	72%		1.39	6.3	6.1									11,789	14,696					11,769	14,684	
2/6/2018	FALSE	FALSE	FALSE	3.24	8.53	6.01	54%	38%	70%		1.42	6.3	6.1									11,789	14,696					11,769	14,684	
2/7/2018	FALSE	FALSE	FALSE	3.24	8.78	6.04	54%	37%	69%		1.45	6.4	6.1	206.00	206.00	1.02		14 702	15 201			11,789	14,696		14 702	15 261		11,769	14,684	
2/8/2018 2/9/2018	FALSE FALSE	FALSE FALSE	FALSE FALSE	3.29 3.14	8.43 8.33	5.98 5.95	55% 53%	39% 38%	71% 71%		1.41 1.40	6.3	6.0 6.0	296.60 245.00	306.00 263.00	1.03 1.07		14,792 12,158	15,261 13,051			12,123 12,126	14,777 14,561		14,792 12,158	15,261 13,051		12,105 12,110	14,767 14,552	
2/10/2018	FALSE	FALSE	FALSE	3.14	8.94	5.95	54%	35%	66%		1.51	6.3	6.0	243.00	203.00	1.07		12,130	13,031			12,126	14,725		12,130	13,031		12,110	14,715	
2/11/2018	FALSE	FALSE	FALSE	3.16	8.84	5.96	53%	36%	67%		1.48	6.2	6.0									12,610	15,373					12,610	15,373	
2/12/2018	FALSE	FALSE	FALSE	3.12	8.34	6.01	52%	37%	72%		1.39	6.2	6.0									12,610	15,373					12,610	15,373	
2/13/2018	FALSE	FALSE	FALSE	3.16	8.30	5.90	54%	38%	71%		1.41	6.2	6.0									12,610	15,373					12,610	15,373	
2/14/2018	FALSE	FALSE	FALSE	3.15	8.60	5.92	53%	37%	69%		1.45	6.2	6.0									12,610	15,373					12,610	15,373	
2/15/2018	FALSE	FALSE	FALSE	3.17	8.24	5.81	55%	38%	71%		1.42	6.2	5.9	257.20	285.00	1.11		12,463	13,810			12,594	15,149		12,463	13,810		12,594	15,149	

	Butte	CSU		Min	Max	Avg	Min % of	Min % of	Avg % of	Flow	Diurnal Peak	30-d Avg	7-d Avg of	Influent	Influent BOD	BOD/TSS	Influent NH3-N	Avg Inf	Avg Inf	Avg Inf	Load	30-d Avg	30-d Avg	30-d Avg	non-SN	non-SN	non-SN		30-d Avg	
Date	Break?	Break?	Precip?	Influent Flow, mgd	Influent Flow, mgd		Λνισ	Max	Max	Outlier Type	Factor (DPF)	of Avg Flow, mgd		TSS Conc., mg/L	Conc., mg/L	Ratio	Conc., mg/L	TSS Load, ppd	BOD Load, ppd	NH3 Load, ppd	Outlier Type	of TSS Load, ppd			TSS Load, ppd	BOD Load, ppd	NH3 Load, ppd		BOD Load,	NH3-N Load, ppd
2/16/2018	FALSE	FALSE	FALSE	3.11	8.11	5.84	53%	38%	72%		1.39	6.2	5.9	257.20	277.00	1.08		12,527	13,491			12,587	14,942		12,527	13,491		12,587	14,942	
2/17/2018	FALSE	FALSE	FALSE	3.18	8.57	5.76	55%	37%	67%		1.49	6.2	5.9									12,739	15,010					12,739	15,010	
2/18/2018 2/19/2018	FALSE FALSE	FALSE FALSE	FALSE FALSE	3.16 3.07	8.86 8.64	5.72 5.97	55% 51%	36% 36%	65% 69%		1.55 1.45	6.2 6.2	5.9 5.9									12,820 12,820	14,468 14,468					12,820 12,820	14,468 14,468	
2/20/2018	FALSE	FALSE	FALSE	3.07	8.53	5.95	52%	36%	70%		1.43	6.2	5.9									12,820	14,468					12,820	14,468	
2/21/2018	FALSE	FALSE	FALSE	3.14	8.30	5.93	53%	38%	71%		1.40	6.2	5.9	253.70	293.00	1.15		12,547	14,491			12,789	14,471		12,547	14,491		12,789	14,471	
2/22/2018 2/23/2018	FALSE FALSE	FALSE FALSE	FALSE FALSE	3.42 3.32	8.40 8.20	6.01 5.89	57% 56%	41% 40%	72% 72%		1.40 1.39	6.1 6.1	5.9 5.9	267.20	268.00	1.00		13,393	13,433			12,850 12,850	14,341 14,341		13,393	13,433		12,850 12,850	14,341 14,341	
2/24/2018	FALSE	FALSE	FALSE	3.33	8.96	5.86	57%	37%	65%		1.53	6.1	5.9									12,946	14,301					12,946	14,301	
2/25/2018	FALSE	FALSE	FALSE	3.29	8.83	5.96	55%	37%	67%		1.48	6.0	5.9									13,203	13,923					13,203	13,923	
2/26/2018 2/27/2018	FALSE FALSE	FALSE FALSE	FALSE FALSE	3.36 3.14	8.34 8.35	5.96 5.92	56% 53%	40% 38%	71% 71%		1.40 1.41	6.0 6.0	5.9 5.9									13,203 13,203	13,923 13,923					13,203 13,203	13,923 13,923	
2/28/2018	FALSE	FALSE	FALSE	3.14	8.77	5.98	53%	36%	68%		1.41	6.0	5.9	266.10				13,271				13,210	13,923		13,271			13,210	13,923	
3/1/2018	FALSE	FALSE	TRUE	3.54	9.12	6.75	52%	39%	74%		1.35	6.0	6.0	262.20	287.00	1.09		14,761	16,157			13,365	14,242		14,761	16,157		13,365	14,242	
3/2/2018	FALSE	FALSE	FALSE	3.50	9.20	6.65	53%	38%	72%		1.38	6.0	6.1									13,365	14,242					13,365	14,242	
3/3/2018 3/4/2018	FALSE FALSE	FALSE FALSE	FALSE FALSE	3.39 3.30	9.70 9.56	6.43 6.25	53% 53%	35% 35%	66% 65%		1.51 1.53	6.0 6.0	6.2 6.2									13,110 13,239	14,242 14,242					13,110 13,239	14,242 14,242	
3/5/2018	FALSE	FALSE	FALSE	3.21	8.67	6.22	52%	37%	72%		1.39	6.0	6.3									13,239	14,242					13,239	14,242	
3/6/2018	FALSE	FALSE	FALSE	3.25	8.80	6.26	52%	37%	71%		1.41	6.0	6.3									13,239	14,242					13,239	14,242	
3/7/2018	FALSE	FALSE	TRUE	3.40	8.74	6.27	54%	39%	72%		1.39	6.0	6.4	237.20	237.00	1.00		12,404	12,393			13,146	14,011		12,404	12,393		13,146	14,011	
3/8/2018 3/9/2018	FALSE FALSE	FALSE FALSE	TRUE FALSE	3.53 3.49	8.53 8.78	6.40 6.31	55% 55%	41% 40%	75% 72%		1.33 1.39	6.0 6.1	6.4 6.3	245.70	256.00	1.04		13,114	13,664			13,143 13,143	13,972 13,972		13,114	13,664		13,143 13,143	13,972 13,972	
3/10/2018	FALSE	FALSE	FALSE	3.45	9.12	6.23	55%	38%	68%		1.46	6.1	6.3									13,143	13,972					13,143	13,972	
3/11/2018	FALSE	FALSE	FALSE	3.44	8.98	6.23	55%	38%	69%		1.44	6.1	6.3									12,960	13,811					12,960	13,811	
3/12/2018 3/13/2018	FALSE FALSE	FALSE FALSE	TRUE	3.36 3.51	8.76 9.47	6.25	54%	38% 37%	71% 73%		1.40	6.1	6.3 6.4									13,060	13,920					13,060	13,920	
3/13/2018	FALSE	FALSE	TRUE TRUE	3.63	9.47	6.89 7.18	51% 51%	39%	73% 77%		1.37 1.30	6.1 6.2	6.5									13,060 13,060	13,920 13,920					13,060 13,060	13,920 13,920	
3/15/2018	FALSE	FALSE	TRUE	3.61	9.84	7.31	49%	37%	74%		1.35	6.2	6.6									13,060	13,920					13,060	13,920	
3/16/2018	TRUE	TRUE	FALSE	3.87	9.59	7.17	54%	40%	75%		1.34	6.2	6.7	182.40	216.00	1.18		10,907	12,916			12,821	13,794		10,907	12,916		12,821	13,794	
3/17/2018 3/18/2018	TRUE TRUE	TRUE TRUE	FALSE FALSE	3.61 3.33	8.97 8.25	6.53 6.05	55% 55%	40% 40%	73% 73%		1.37 1.36	6.3 6.3	6.7 6.7									12,821 12,866	13,794 13,792					12,821 12,866	13,794 13,792	
3/19/2018	TRUE	TRUE	FALSE	3.23	7.58	5.88	55%	43%	78%		1.29	6.3	6.7	62.00				3,040			TSS	12,914	13,732		3,040			12,914	13,842	
3/20/2018	TRUE	TRUE	TRUE	3.18	8.00	5.92	54%	40%	74%		1.35	6.3	6.6					ĺ				12,914	13,842		,			12,914	13,842	
3/21/2018	TRUE	TRUE	TRUE	3.89	10.84	7.95	49%	36%	73%		1.36	6.3	6.7	227.70	248.00	1.09		15,097	16,443			13,187	14,214		15,097	16,443		13,187	14,214	
3/22/2018 3/23/2018	TRUE TRUE	TRUE TRUE	TRUE FALSE	5.47 5.00	11.50 10.31	9.38 8.03	58% 62%	48% 48%	82% 78%		1.23 1.28	6.5 6.5	7.0 7.1	183.60	157.00	0.86		14,363	12,282			13,317 13,317	13,972 13,972		14,228	12,229		13,302 13,302	13,966 13,966	
3/24/2018	TRUE	TRUE	TRUE	4.30	9.60	7.24	59%	45%	75%		1.33	6.6	7.1									13,414	13,898					13,397	13,891	
3/25/2018	TRUE	TRUE	FALSE	3.33	9.65	7.05	47%	35%	73%		1.37	6.6	7.2									13,417	13,976					13,397	13,967	
3/26/2018	TRUE	TRUE	FALSE	3.39	9.34	7.00	48%	36%	75%		1.33	6.6	7.3									13,417	13,976					13,397	13,967	
3/27/2018 3/28/2018	FALSE FALSE	FALSE FALSE	FALSE FALSE	3.50 3.42	9.66 9.79	6.79 6.69	52% 51%	36% 35%	70% 68%		1.42 1.46	6.7 6.7	7.4 7.5	193.90	233.00	1.20		10,819	13,000			13,417 13,092	13,976 13,837		10,819	13,000		13,397 13,075	13,967 13,829	
3/29/2018	FALSE	FALSE	FALSE	3.55	9.38	6.63	54%	38%	71%		1.41	6.7	7.4		227.00	1.12		11,214	12,552			12,883	13,676		11,214	12,552		12,868	13,669	
3/30/2018	FALSE	FALSE	FALSE	3.41	9.17	6.48	53%	37%	71%		1.42	6.7	7.0									12,883	13,676					12,868	13,669	
3/31/2018 4/1/2018	FALSE FALSE	FALSE FALSE	FALSE FALSE	3.31 3.28	9.32 8.91	6.20 6.00	53% 55%	36% 37%	67% 67%		1.50 1.49	6.7 6.7	6.8 6.6									12,835 12,560	13,676 13,322					12,818 12,540	13,669 13,314	
4/2/2018	FALSE	FALSE	FALSE	3.27	8.55	6.29	52%	38%	74%		1.36	6.7	6.5									12,560	13,322					12,540	13,314	
4/3/2018	FALSE	FALSE	FALSE	3.29	9.23	6.26	53%	36%	68%		1.47	6.7	6.4									12,560	13,322					12,540	13,314	
4/4/2018	FALSE	FALSE	FALSE	3.24	8.81	6.22	52%	37%	71%		1.42	6.7	6.3									12,560	13,322					12,540	13,314	
4/5/2018 4/6/2018	FALSE FALSE	FALSE FALSE	TRUE TRUE	3.26 3.38	8.79 13.29	6.25 8.58	52% 39%	37% 25%	71% 65%	MinAvg	1.41 1.55	6.7 6.7	6.3 6.2									12,560 12,560	13,322 13,322					12,540 12,540	13,314 13,314	
4/7/2018	FALSE	FALSE	TRUE	9.97	16.01	12.25	81%	62%		nAvgMinM	1.31	6.7	6.2									12,586	13,476					12,563	13,467	
4/8/2018	FALSE	FALSE	FALSE	5.68	12.10	9.06	63%	47%	75%	-	1.34	6.8	6.7									12,480	13,439					12,453	13,428	
4/9/2018	FALSE	FALSE	FALSE	4.43	11.10	8.17	54%	40%	74%		1.36	6.9	7.0									12,480	13,439					12,453	13,428	
4/10/2018 4/11/2018	FALSE FALSE	FALSE FALSE	TRUE TRUE	4.27 3.91	10.94 10.37	7.64 7.45	56% 52%	39% 38%	70% 72%		1.43 1.39	6.9 7.0	7.3 7.5									12,480 12,480	13,439 13,439					12,453 12,453	13,428 13,428	
4/12/2018	FALSE	FALSE	FALSE	3.82	10.09	7.07	54%	38%	70%		1.43	7.0	7.6									12,480	13,439					12,453	13,428	
4/13/2018	FALSE	FALSE	FALSE	3.35	9.52	6.69	50%	35%	70%		1.42	7.0	7.7									12,480	13,439					12,453	13,428	
4/14/2018 4/15/2018	FALSE	FALSE	FALSE	3.45	9.18	6.41	54% 51%	38%	70%		1.43	7.0 6.0	7.5									12,480	13,439					12,453	13,428	
4/15/2018 4/16/2018	FALSE FALSE	FALSE FALSE	TRUE TRUE	3.35 3.29	9.36 9.83	6.55 6.98	51% 47%	36% 33%	70% 71%		1.43 1.41	6.9 6.9	7.4 7.1									12,480 12,873	13,439 13,569					12,453 12,839	13,428 13,556	
4/17/2018	FALSE	FALSE	FALSE	3.69	10.07	7.09	52%	37%	70%		1.42	6.9	7.0				39.80			2,353	NH3	12,873	13,569				2,353	12,839	13,556	
4/18/2018	FALSE	FALSE	FALSE	3.53	9.75	6.78	52%	36%	70%		1.44	7.0	6.9				19.60			1,108		12,873	13,569	1,108			1,108	12,839	13,556	1,108
4/19/2018	FALSE	FALSE	FALSE	3.45	9.41	6.60	52%	37%	70%		1.43	7.0	6.8									12,873	13,569	1,108				12,839	13,556	1,108

											Diurnal				Influent		Influent											30-d Avg	30-d Avg	30-d Avg
Date	Butte	CSU	Precip?	Min Influent	Max Influent	Avg Influent		Min % of		Flow Outlier	Peak		7-d Avg of Avg Flow,		BOD	BOD/TSS	NH3-N	Avg Inf TSS Load,	Avg Inf BOD Load,	Avg Inf NH3 Load,	Load Outlier	30-d Avg of TSS	30-d Avg of BOD	30-d Avg of NH3-N		non-SN BOD Load,		of non-SN	of non-SN	of non-SN
	Break?	Break?		Flow, mgd	Flow, mgd	Flow, mgd	Avg	Max	Max	Туре	Factor (DPF)	Flow, mgd	mgd	mg/L	Conc., mg/L	Ratio	Conc., mg/L	ppd	ppd	ppd	Туре	Load, ppd	Load, ppd	Load, ppd	ppd	ppd	ppd	ppd	BOD Load, ppd	NH3-N Load, ppd
4/20/2018	FALSE	FALSE	FALSE FALSE	3.41	8.97	6.34	54% 55%	38%	71%		1.41	7.0	6.7 6.6									12,873	13,569	1,108				12,839	13,556	1,108
4/21/2018 4/22/2018	FALSE FALSE	FALSE FALSE	FALSE	3.36 3.28	8.79 8.92	6.07 6.12	55%	38% 37%	69% 69%		1.45 1.46	6.9 6.8	6.6									12,132 11,016	12,611 12,776	1,108 1,108				12,087 11,016	12,594 12,776	1,108 1,108
4/23/2018	FALSE	FALSE	FALSE	3.22	9.18	6.17	52%	35%	67%		1.49	6.8	6.5									11,016	12,776	1,108				11,016	12,776	1,108
4/24/2018 4/25/2018	FALSE FALSE	FALSE FALSE	FALSE FALSE	3.25 3.22	8.84 8.96	6.18 6.09	53% 53%	37% 36%	70% 68%		1.43 1.47	6.7 6.7	6.4				22.50 33.00			1,160 1,676		11,016 11,016	12,776 12,776	1,134 1,315			1,160 1,676	11,016 11,016	12,776 12,776	1,134 1,315
4/26/2018	FALSE	FALSE	FALSE	3.24	8.86	6.08	53%	37%	69%		1.46	6.7	6.2				34.00			1,724		11,016	12,776	1,417			1,724	11,016	12,776	1,417
4/27/2018	FALSE	FALSE	FALSE	3.26	8.63	6.06	54%	38%	70%		1.42	6.6	6.1							·		11,016	12,776	1,417			·	11,016	12,776	1,417
4/28/2018	FALSE	FALSE	FALSE	3.20	8.80	5.91	54%	36%	67%		1.49	6.6	6.1									11,214	12,552	1,417				11,214	12,552	1,417
4/29/2018 4/30/2018	FALSE FALSE	FALSE FALSE	FALSE FALSE	3.13 3.11	8.48 8.63	5.81 5.95	54% 52%	37% 36%	69% 69%		1.46 1.45	6.6 6.6	6.1 6.0											1,417 1,417						1,417 1,417
5/1/2018	FALSE	FALSE	FALSE	3.20	8.71	5.91	54%	37%	68%		1.47	6.6	6.0											1,417						1,417
5/2/2018	FALSE	FALSE	FALSE	3.26	8.53	6.00	54%	38%	70%		1.42	6.6	6.0	208.80	235.00	1.13	38.50	10,448	11,759	1,927		10,448	11,759	1,519	10,448	11,759	1,927	10,448	11,759	1,519
5/3/2018 5/4/2018	FALSE FALSE	FALSE FALSE	FALSE FALSE	3.25 3.24	8.63 8.29	5.96 5.98	55% 54%	38% 39%	69% 72%		1.45 1.39	6.5 6.5	6.0 5.9	231.00	248.00	1.07	36.80	11,482	12,327	1,829		10,965 10,965	12,043 12,043	1,571 1,571	11,482	12,327	1,829	10,965 10,965	12,043 12,043	1,571 1,571
5/5/2018	FALSE	FALSE	FALSE	3.27	8.26	5.93	55%	40%	72%		1.39	6.5	5.9									10,965	12,043	1,571				10,965	12,043	1,571
5/6/2018	FALSE	FALSE	FALSE	3.25	8.10	5.80	56%	40%	72%		1.40	6.5	5.9									10,965	12,043	1,571				10,965	12,043	1,571
5/7/2018 5/8/2018	FALSE FALSE	FALSE FALSE	FALSE FALSE	3.11 3.26	8.62 8.33	5.84 5.86	53% 56%	36% 39%	68% 70%		1.48 1.42	6.5 6.5	5.9 5.9									10,965 10,965	12,043 12,043	1,571 1,571				10,965 10,965	12,043 12,043	1,571 1,571
5/9/2018	FALSE	FALSE	FALSE	3.22	8.80	5.97	54%	37%	68%		1.47	6.4	5.9	322.70	299.00	0.93	40.30	16,067	14,887	2,007		12,666	12,991	1,633	16,067	14,887	2,007	12,666	12,991	1,633
5/10/2018	FALSE	FALSE	FALSE	3.23	8.56	5.92	55%	38%	69%		1.45	6.3	5.9	264.70	284.00	1.07	39.00	13,069	14,022	1,926		12,767	13,249	1,669	13,069	14,022	1,926	12,767	13,249	1,669
5/11/2018 5/12/2018	FALSE FALSE	FALSE FALSE	FALSE FALSE	3.19 3.26	8.24 8.36	5.84 5.69	55% 57%	39% 39%	71% 68%		1.41 1.47	6.2 6.2	5.9 5.9									12,767 12,767	13,249 13,249	1,669 1,669				12,767 12,767	13,249 13,249	1,669 1,669
5/13/2018	FALSE	FALSE	FALSE	3.16	8.30	5.66	56%	38%	68%		1.47	6.1	5.8									12,767	13,249	1,669				12,767	13,249	1,669
5/14/2018	FALSE	FALSE	FALSE	3.17	8.23	5.87	54%	39%	71%		1.40	6.1	5.8									12,767	13,249	1,669				12,767	13,249	1,669
5/15/2018 5/16/2018	FALSE FALSE	FALSE FALSE	FALSE FALSE	3.22 3.27	8.53 8.41	5.93 5.97	54% 55%	38% 39%	70% 71%		1.44 1.41	6.1 6.1	5.8 5.9	300.60	303.00	1.01	42.30	14,967	15,086	2,106	NH3	12,767 13,207	13,249 13,616	1,669 1,669	14,967	15,086	2,106	12,767 13,207	13,249 13,616	1,669 1,669
5/17/2018	FALSE	FALSE	FALSE	3.21	8.23	5.82	55%	39%	71%		1.41	6.0	5.8	277.10	298.00	1.08	38.80	13,450	14,465	1,883	MIIS	13,247	13,758	1,693	13,450	14,465	1,883	13,247	13,758	1,693
5/18/2018	FALSE	FALSE	FALSE	3.25	8.46	5.94	55%	38%	70%		1.42	6.0	5.8									13,247	13,758	1,693				13,247	13,758	1,693
5/19/2018 5/20/2018	FALSE FALSE	FALSE TRUE	FALSE FALSE	3.28 3.18	8.18 8.13	5.75 5.66	57% 56%	40% 39%	70% 70%		1.42 1.44	6.0 5.9	5.8 5.8									13,247 13,247	13,758 13,758	1,766 1,766				13,247 13,247	13,758 13,758	1,766 1,766
5/21/2018	FALSE	TRUE	FALSE	3.20	8.20	5.61	57%	39%	68%		1.44	5.9	5.8									13,247	13,758	1,766				13,247	13,758	1,766
5/22/2018	FALSE	TRUE	FALSE	3.26	7.81	5.53	59%	42%	71%		1.41	5.9	5.8									13,247	13,758	1,766				13,247	13,758	1,766
5/23/2018	FALSE FALSE	TRUE TRUE	FALSE FALSE	3.19 3.20	7.87	5.54	58% 58%	41%	70%		1.42 1.41	5.9	5.7 5.7	400.00	217.00	0.70	45 50	10 /15	14 504	2.005	NHO	13,247	13,758	1,766 1,766	10 /15	14 504	2 005	13,247	13,758	1,766
5/24/2018 5/25/2018	TRUE	TRUE	TRUE	3.18	7.80 7.68	5.52 5.75	55%	41% 41%	71% 75%		1.41	5.9 5.8	5.7	400.00 323.30	317.00 441.00	0.79 1.36	45.50 34.70	18,415 15,504	14,594 21,148	2,095 1,664	NH3 BOD	13,985 14,175	13,877 13,877	1,766	18,415 15,504	14,594 21,148	2,095 1,664	13,985 14,175	13,877 13,877	1,766 1,829
5/26/2018	TRUE	TRUE	TRUE	3.22	7.82	5.35	60%	41%	68%		1.46	5.8	5.6									14,175	13,877	1,851				14,175	13,877	1,851
5/27/2018	TRUE	TRUE	FALSE	3.14	7.19	5.08	62%	44% 44%	71%		1.42	5.8	5.5									14,175	13,877	1,873				14,175	13,877	1,873
5/28/2018 5/29/2018	TRUE TRUE	TRUE TRUE	FALSE FALSE	3.20 3.21	7.29 7.71	5.26 5.40	61% 59%	44%	72% 70%		1.39 1.43	5.8 5.7	5.5 5.4									14,175 14,175	13,877 13,877	1,873 1,873				14,175 14,175	13,877 13,877	1,873 1,873
5/30/2018	TRUE	TRUE	FALSE	3.27	7.84	5.51	59%	42%	70%		1.42	5.7	5.4	247.60	367.00	1.48	37.70	11,378	16,865	1,732		13,864	14,251	1,853	11,256	16,833	1,732	13,851	14,247	1,853
5/31/2018	TRUE	TRUE	FALSE	3.19	8.10	5.48	58%	39%	68%		1.48	5.7	5.4	261.00	344.00	1.32	37.10	11,929	15,722	1,696		13,671	14,414	1,833	11,929	15,722	1,696	13,659	14,411	1,833
6/1/2018 6/2/2018	TRUE TRUE	TRUE TRUE	FALSE FALSE	3.20 3.21	7.68 7.45	5.39 5.21	59% 62%	42% 43%	70% 70%		1.42 1.43	5.7 5.7	5.4 5.3									13,671 14,029	14,414 14,746	1,833 1,820				13,659 14,015	14,411 14,742	1,833 1,820
6/3/2018	TRUE	TRUE	FALSE	3.16	7.11	5.15	61%	44%	72%		1.38	5.7	5.3									14,347	15,091	1,818				14,332	15,087	1,818
6/4/2018	TRUE	TRUE	FALSE	3.16	7.67	5.40	59%	41%	70%		1.42	5.6	5.4									14,347	15,091	1,818				14,332	15,087	1,818
6/5/2018 6/6/2018	TRUE TRUE	TRUE TRUE	FALSE FALSE	3.22 3.13	7.55 7.39	5.33 5.35	60% 59%	43% 42%	71% 72%		1.42 1.38	5.6 5.6	5.4 5.4	271.30	273.00	1.01	40.90	12,105	12,181	1,825		14,347 14,098	15,091 14,728	1,818 1,819	12,105	12,181	1,825	14,332 14,085	15,087 14,724	1,818 1,819
6/7/2018	TRUE	TRUE	FALSE	3.15	7.31	5.37	59%	43%	73%		1.36	5.6	5.3	264.50	264.00	1.00	38.10	11,846	11,823	1,706		13,873	14,405	1,805	11,846	11,823	1,706	13,861	14,401	1,805
6/8/2018	TRUE	TRUE	FALSE	3.15	6.85	5.24	60%	46%	76%		1.31	5.6	5.3									13,873	14,405	1,805				13,861	14,401	1,805
6/9/2018 6/10/2018	TRUE TRUE	TRUE TRUE	FALSE FALSE	3.12 3.09	7.23 7.09	5.19 5.09	60% 61%	43% 44%	72% 72%		1.39 1.39	5.5 5.5	5.3 5.3									13,629 13,699	14,345 14,391	1,776 1,751				13,616 13,684	14,341 14,386	1,776 1,751
6/11/2018	TRUE	TRUE	FALSE	3.09	7.16	5.23	59%	43%	73%		1.37	5.5	5.3									13,699	14,391	1,751				13,684	14,386	1,751
6/12/2018	TRUE	TRUE	FALSE	3.15	7.14	5.21	60%	44%	73%		1.37	5.5	5.3									13,699	14,391	1,751				13,684	14,386	1,751
6/13/2018 6/14/2018	TRUE TRUE	TRUE TRUE	FALSE FALSE	3.25 3.11	7.31 7.35	5.25 5.27	62% 59%	44% 42%	72% 72%		1.39 1.39	5.5 5.4	5.2 5.2	288.40 278.90	257.00 266.00	0.89 0.95	39.10	12,628 12,258	11,253 11,691	1,712		13,580 13,448	13,999 13,742	1,746 1,746	12,628 12,152	11,253 11,661	1,712	13,566 13,425	13,995 13,735	1,746 1,746
6/15/2018	TRUE	TRUE	FALSE	3.15	7.33	5.22	60%	45%	74%		1.35	5.4	5.2	270.30	200.00	0.33		12,230	11,031			13,448	13,742	1,746	12,132	11,001		13,425	13,735	1,746
6/16/2018	TRUE	TRUE	FALSE	3.19	6.87	5.06	63%	46%	74%		1.36	5.4	5.2									13,279	13,574	1,746				13,254	13,566	1,746
6/17/2018 6/18/2018	TRUE	TRUE	FALSE	3.12	6.80	5.00	62% 60%	46% 46%	74% 77%		1.36	5.4	5.2									13,258	13,447	1,723				13,229	13,438	1,723
6/18/2018	TRUE TRUE	TRUE TRUE	FALSE FALSE	3.14 3.28	6.85 7.20	5.25 5.28	60% 62%	46% 46%	77% 73%		1.30 1.36	5.3 5.3	5.2 5.2									13,258 13,258	13,447 13,447	1,723 1,723				13,229 13,229	13,438 13,438	1,723 1,723
6/20/2018	TRUE	TRUE	FALSE	3.16	7.25	5.25	60%	44%	72%		1.38	5.3	5.2	284.10	298.00	1.05	38.80	12,439	13,048	1,699		13,167	13,397	1,719	12,439	13,048	1,699	13,141	13,389	1,719
6/21/2018	TRUE	TRUE	FALSE	3.20	7.17	5.28	61%	45%	74%		1.36	5.3	5.2	335.10	283.00	0.84		14,756	12,462			13,326	13,293	1,719	14,756	12,462		13,303	13,286	1,719

Date	Butte Break?	CSU Break?	Precip?	Min Influent	Max Influent	Avg Influent		Min % of Max		Flow Outlier	Diurnal Peak			f Influent TSS Conc.,	Influent BOD Conc.,	BOD/TSS Ratio	Influent NH3-N Conc.,	Avg Inf TSS Load,	Avg Inf BOD Load,	Avg Inf NH3 Load,	Load Outlier	30-d Avg				non-SN BOD Load,		of non-SN	30-d Avg of non-SN BOD Load,	of non-SN
	DIEGK:	DIEdK:		Flow, mgc	d Flow, mgd	Flow, mgd	Avg	IVIdA	Max	Туре	Factor (DPF)	Flow, mgd	mgd	mg/L	mg/L	Natio	mg/L	ppd	ppd	ppd	Туре	Load, ppd	Load, ppd	Load, ppd	ppd	ppd	ppd	ppd		Load, ppd
6/22/2018	TRUE	TRUE	FALSE	3.19	7.01	5.19	61%	46%	74%		1.35	5.3	5.2									13,326	13,293	1,719				13,303	13,286	1,719
6/23/2018 6/24/2018	TRUE TRUE	TRUE TRUE	FALSE FALSE	3.20 3.14	6.99 6.82	5.02 4.96	64% 63%	46% 46%	72% 73%		1.39 1.38	5.3 5.3	5.2 5.2									13,326 12,760	13,293 13,131	1,719 1,719				13,303 12,735	13,286 13,123	1,719 1,719
6/25/2018	TRUE	TRUE	FALSE	3.19	6.88	5.26	61%	46%	76%		1.31	5.2	5.2									12,417	13,131	1,728				12,389	13,123	1,728
6/26/2018 6/27/2018	TRUE TRUE	TRUE TRUE	FALSE FALSE	3.20 3.17	7.37 7.31	5.30 5.27	60% 60%	43% 43%	72% 72%		1.39 1.39	5.2 5.2	5.2 5.2	377.00	246.00	0.65		16,570	10,812			12,417 12,879	13,131 12,873	1,728 1,728	16,570	10,812		12,389 12,853	13,123 12,866	1,728 1,728
6/28/2018	TRUE	TRUE	FALSE	3.22	7.15	5.28	61%	45%	74%		1.35	5.2	5.2	251.10	234.00	0.93		11,057	10,304			12,697	12,616	1,728	11,057	10,304		12,674	12,610	1,728
6/29/2018	TRUE	TRUE	FALSE	3.20	7.14	5.23	61%	45%	73%		1.37	5.2	5.2									12,697	12,616	1,728				12,674	12,610	1,728
6/30/2018 7/1/2018	TRUE	TRUE TRUE	FALSE FALSE	3.20 3.15	7.10 6.81	5.05 4.88	63% 65%	45% 46%	71% 72%		1.41	5.2 5.2	5.2 5.2									12,843 12,957	12,144 11,697	1,728 1,736				12,831 12,944	12,141 11,693	1,728 1,736
7/2/2018	TRUE	TRUE	FALSE	3.13	6.84	5.17	61%	46%	76%		1.32	5.2	5.2									12,957	11,697	1,736				12,944	11,693	1,736
7/3/2018	TRUE	TRUE TRUE	FALSE	3.22	7.13	5.14	63% 65%	45% 46%	72%		1.39	5.2	5.2 5.1									12,957	11,697	1,736				12,944	11,693	1,736
7/4/2018 7/5/2018	TRUE TRUE	TRUE	FALSE FALSE	3.14 3.12	6.89 6.65	4.80 4.87	64%	46%	70% 73%		1.44 1.37	5.2 5.2	5.1	207.70	212.00	1.02		8,436	8,611			12,957 12,455	11,697 11,354	1,736 1,736	8,436	8,611		12,944 12,443	11,693 11,351	1,736 1,736
7/6/2018	TRUE	TRUE	FALSE	3.10	6.94	5.12	61%	45%	74%		1.36	5.2	5.0					·				12,455	11,354	1,736	·			12,443	11,351	1,736
7/7/2018 7/8/2018	TRUE TRUE	TRUE TRUE	FALSE FALSE	3.21 3.14	7.03	5.00 4.98	64% 63%	46% 46%	71% 73%		1.41	5.2	5.0 5.0									12,499	11,251 11,169	1,706 1,705				12,486	11,247 11,164	1,706
7/8/2018	TRUE	TRUE	FALSE	3.15	6.80 7.07	5.21	60%	45%	74%		1.37 1.36	5.1 5.1	5.0									12,592 12,592	11,169	1,705				12,577 12,577	11,164	1,705 1,705
7/10/2018	TRUE	TRUE	FALSE	3.25	7.25	5.25	62%	45%	72%		1.38	5.1	5.0									12,592	11,169	1,705				12,577	11,164	1,705
7/11/2018 7/12/2018	TRUE TRUE	TRUE TRUE	FALSE FALSE	3.17 3.20	7.17 7.33	5.21 5.24	61% 61%	44% 44%	73% 71%		1.38 1.40	5.1 5.1	5.1 5.1	268.10 277.00	175.00 190.00	0.65 0.69		11,649 12,105	7,604 8,303			12,474 12,433	10,723 10,454	1,705 1,705	11,649 12,105	7,604 8,303		12,461 12,421	10,719 10,451	1,705 1,705
7/13/2018	TRUE	TRUE	FALSE	3.17	6.94	5.20	61%	46%	75%		1.33	5.1	5.2	277.00	190.00	0.03		12,103	8,303			12,433	10,454	1,705	12,103	0,303		12,421	10,451	1,705
7/14/2018	TRUE	TRUE	FALSE	3.25	7.06	5.01	65%	46%	71%		1.41	5.1	5.1									12,409	10,354	1,699				12,396	10,351	1,699
7/15/2018 7/16/2018	TRUE TRUE	TRUE TRUE	FALSE FALSE	3.13 3.16	6.95 7.28	4.99 5.20	63% 61%	45% 43%	72% 71%		1.39 1.40	5.1 5.1	5.1 5.2									12,430 12,430	10,163 10,163	1,699 1,699				12,430 12,430	10,163 10,163	1,699 1,699
7/17/2018	TRUE	TRUE	FALSE	3.22	7.28	5.26	61%	45%	74%		1.36	5.1	5.2									12,430	10,163	1,699				12,430	10,163	1,699
7/18/2018	TRUE	TRUE	FALSE	3.15	7.10	5.29	60%	44%	75%		1.34	5.143226	5.18	348.00	102.00	0.29		15,353	4,500			12,796	9,456	1,699	15,353	4,500		12,796	9,456	1,699
7/19/2018 7/20/2018	TRUE TRUE	TRUE TRUE	FALSE FALSE	3.21 3.22	7.30 7.27	5.29 5.24	61% 61%	44% 44%	72% 72%		1.38 1.39	5.144516 5.143226	5.19 5.19	290.00	200.00	0.69		12,794	8,824			12,796 12,796	9,385 9,385	1,699 1,699	12,794	8,824		12,796 12,796	9,385 9,385	1,699 1,699
7/21/2018	TRUE	TRUE	FALSE	3.23	7.29	5.07	64%	44%	70%		1.44	5.137419	5.17									12,840	8,928	1,055				12,730	8,928	1,033
7/22/2018	TRUE	TRUE	FALSE	3.13	7.11	5.04	62%	44%	71%		1.41	5.129677	5.17									12,566	8,423					12,566	8,423	
7/23/2018 7/24/2018	TRUE TRUE	TRUE TRUE	FALSE FALSE	3.18 3.26	7.35 7.40	5.28 5.41	60% 60%	43% 44%	72% 73%		1.39 1.37	5.132581 5.145161	5.21 5.24									12,566 12,566	8,423 8,423				ì	12,566 12,566	8,423 8,423	
7/25/2018	TRUE	TRUE	FALSE	3.45	7.40	5.41	64%	48%	75%		1.33	5.159677	5.25	243.80	127.00	0.52		11,000	5,730			12,300	8,086		11,000	5,730		12,300	8,086	
7/26/2018	TRUE	TRUE	FALSE	3.38	7.12	5.33	63%	47%	75%		1.34	5.161935	5.26	260.00				11,558				12,280	8,086		11,558			12,280	8,086	
7/27/2018 7/28/2018	TRUE TRUE	TRUE TRUE	FALSE FALSE	3.19 3.25	7.34 7.14	5.31 5.19	60% 63%	43% 46%	72% 73%		1.38 1.38	5.162258 5.159677	5.26 5.26									12,280	8,086 7,697					12,280	8,086 7,697	
7/29/2018	TRUE	TRUE	FALSE	3.17	7.14	5.19	61%	43%	70%		1.42	5.156129	5.27									11,744 11,842	7,097					11,744 11,842	7,097	
7/30/2018	TRUE	TRUE	FALSE	3.19	7.26	5.45	59%	44%	75%		1.33	5.163226	5.32									11,842	7,262					11,842	7,262	
7/31/2018 8/1/2018	TRUE TRUE	TRUE TRUE	FALSE FALSE	3.20 3.24	7.49 7.34	5.43 5.40	59% 60%	43% 44%	72% 74%		1.38 1.36	5.175484 5.192258	5.34 5.34									11,842 11,842	7,262 7,262					11,842 11,842	7,262 7,262	
8/2/2018	TRUE	TRUE	FALSE	3.24	7.54	5.33	61%	44%	69%			5.192238	5.33									11,842	7,262					11,842	7,262	
8/3/2018	TRUE	TRUE	FALSE	3.21	7.07	5.33	60%	45%	75%		1.33	5.203548	5.33	259.50	125.00	0.48		11,535	5,557			11,804	7,018		11,535	5,557		11,804	7,018	
8/4/2018 8/5/2018	TRUE TRUE	TRUE TRUE	FALSE FALSE	3.25 3.17	7.24 7.40	5.15 5.17	63% 61%	45% 43%	71% 70%		1.41 1.43	5.214839 5.224516	5.31 5.30									11,804 12,285	7,018 6,753					11,804 12,285	7,018 6,753	
8/6/2018	TRUE	TRUE	FALSE	3.16	6.98	5.35	59%	45%	77%		1.30	5.231935	5.33									12,285	6,753					12,285	6,753	
8/7/2018	TRUE	TRUE	FALSE	3.18	7.42	5.32	60%	43%	72%			5.242258	5.31									12,285	6,753					12,285	6,753	
8/8/2018 8/9/2018	TRUE TRUE	TRUE TRUE	FALSE FALSE	3.28 3.24	7.49 7.42	5.50 5.42	60% 60%	44% 44%	73% 73%		1.36 1.37	5.259032 5.265806	5.32 5.32	230.70 243.20	174.00 121.00	0.75 0.50		10,582 10,993	7,981 5,470			12,072 11,952	6,928 6,746		10,582 10,993	7,981 5,470		12,072 11,952	6,928 6,746	
8/10/2018	TRUE	TRUE	FALSE	3.21	7.42	5.23	61%	43%	71%			5.265161	5.31	243.20	121.00	0.50		10,555	3,470			11,952	6,746		10,555	3,470		11,952	6,746	
8/11/2018	TRUE	TRUE	FALSE	3.20	7.38	5.18	62%	43%	70%		1.42	5.264194	5.29									11,990	6,624					11,990	6,624	
8/12/2018 8/13/2018	TRUE TRUE	TRUE TRUE	FALSE FALSE	3.19 3.16	7.23 7.46	5.24 5.33	61% 59%	44% 42%	72% 71%			5.264194 5.268387	5.30 5.32									11,974 11,974	6,344 6,344					11,974 11,974	6,344 6,344	
8/14/2018	TRUE	TRUE	FALSE	3.26	7.47	5.46	60%	44%	73%		1.37	5.282903	5.34									11,974	6,344					11,974	6,344	
8/15/2018	TRUE	TRUE	FALSE	3.18	7.83	5.61	57%	41%	72%		1.40	5.302903	5.37	251.90	238.00	0.94		11,786	11,135			11,950	7,028		11,786	11,135		11,950	7,028	
8/16/2018 8/17/2018	TRUE TRUE	TRUE TRUE	FALSE FALSE	3.33 3.20	8.25 7.67	5.63 5.40	59% 59%	40% 42%	68% 70%		1.47 1.42	5.316774 5.32129	5.39 5.39	282.50	187.00	0.66		13,265	8,780			12,096 12,096	7,247 7,247		13,265	8,780		12,096 12,096	7,247 7,247	
8/18/2018	TRUE	TRUE	FALSE	3.21	7.81	5.43	59%	41%	70%			5.325806	5.41									11,689	7,640					11,689	7,640	
8/19/2018	TRUE	TRUE	FALSE	3.21	8.02	5.59	57%	40%	70%			5.335484	5.46									11,531	7,442					11,531	7,442	
8/20/2018 8/21/2018	TRUE FALSE	TRUE TRUE	FALSE FALSE	3.16 3.26	8.00 8.31	5.59 5.67	57% 57%	40% 39%	70% 68%		1.43 1.47	5.346774 5.366129	5.51 5.55									11,531 11,531	7,442 7,442					11,531 11,531	7,442 7,442	
8/22/2018	FALSE	TRUE	FALSE	3.32	8.26	5.78	57%	40%	70%		1.43	5.39	5.59	251.90	163.00	0.65		12,143	7,857			11,608	7,502		12,143	7,857		11,608	7,502	

											Diurnal				Influent		Influent											20 d Ava	20 d Avg 2	O d Ava
Date	Butte	CSU	Precip?	Min Influent	Max Influent	Avg Influent	Min % of	Min % of	Avg % of	Flow Outlier	Diurnal Peak		7-d Avg of	Influent TSS Conc.,	Influent BOD	BOD/TSS	Influent NH3-N	Avg Inf	Avg Inf BOD Load,	Avg Inf	Load Outlier	30-d Avg of TSS		30-d Avg of NH3-N			non-SN		of non-SN of	
Date	Break?	Break?	ricup:		d Flow, mgd		Avg	Max	Max	Type	Factor (DPF)	Flow, mgd		mg/L	Conc., mg/L	Ratio	Conc., mg/L	ppd	ppd	ppd	Туре		Load, ppd		ppd	ppd	ppd 1	ΓSS Load, ∣ ppd		NH3-N pad, ppd
8/23/2018	FALSE	TRUE	FALSE	3.26	8.63	5.87	56%	38%	68%		1.47	5.409032	5.62	247.20	193.00	0.78		12,102	9,448			11,663	7,745		12,102	9,448		11,663	7,745	
8/24/2018	FALSE	TRUE	FALSE	3.23	8.27	5.80	56%	39%	70%		1.43	5.421613	5.64					, -	,			11,663	7,745		,	,		11,663	7,745	
8/25/2018 8/26/2018	FALSE FALSE	TRUE TRUE	FALSE FALSE	3.25 3.25	8.50 8.88	5.73 5.95	57% 55%	38% 37%	67% 67%		1.48 1.49	5.431935 5.451935	5.68 5.75									11,745 11,772	8,033 8,033					11,745 11,772	8,033 8,033	
8/27/2018	FALSE	TRUE	FALSE	3.31	8.87	6.03	55%	37%	68%		1.47	5.475161	5.80									11,772	8,033					11,772	8,033	
8/28/2018	FALSE	FALSE	FALSE	3.23	8.70	5.95	54%	37%	68%		1.46	5.499677	5.85									11,772	8,033					11,772	8,033	
8/29/2018 8/30/2018	FALSE FALSE	FALSE FALSE	FALSE FALSE	3.23 3.25	8.98 8.94	5.93 5.95	54% 55%	36% 36%	66% 67%		1.51 1.50	5.524194 5.540323	5.88 5.90	250.40	173.00	0.69		12,384	8,556			11,849	8,098 8,098		12,384	8,556		11,849	8,098 8,098	
8/31/2018	FALSE	FALSE	FALSE	3.26	8.68	5.85	56%	38%	67%		1.48	5.553871	5.90									11,849 11,849	8,098					11,849 11,849	8,098	
9/1/2018	FALSE	FALSE	FALSE	3.27	8.22	5.62	58%	40%	68%		1.46	5.560968	5.88									11,849	8,098					11,849	8,098	
9/2/2018	FALSE	FALSE	FALSE	3.22	8.20	5.51	58%	39%	67%		1.49	5.566774	5.85									11,849	8,098					11,849	8,098	
9/3/2018 9/4/2018	FALSE FALSE	FALSE FALSE	FALSE FALSE	3.25 3.24	8.67 8.75	5.81 5.88	56% 55%	37% 37%	67% 67%		1.49 1.49	5.582258 5.605806	5.83 5.81									11,893 11,893	8,461 8,461					11,893 11,893	8,461 8,461	
9/5/2018	FALSE	FALSE	FALSE	3.33	8.81	5.88	57%	38%	67%		1.50	5.62871	5.80	244.80	140.00	0.57		12,005	6,865			11,893	8,262		12,005	6,865		11,907	8,262	
9/6/2018	FALSE	FALSE	FALSE	3.37	8.63	5.97	56%	39%	69%		1.45	5.64871	5.81	231.40	173.00	0.75		11,521	8,614			11,865	8,301		11,521	8,614		11,865	8,301	
9/7/2018	FALSE	FALSE	FALSE	3.27	8.66	5.84	56%	38%	67%		1.48	5.665484	5.80									11,865	8,301					11,865	8,301	
9/8/2018 9/9/2018	FALSE FALSE	FALSE FALSE	FALSE FALSE	3.33 3.23	8.33 8.34	5.80 5.75	57% 56%	40% 39%	70% 69%		1.44 1.45	5.675161 5.685806	5.79 5.81									12,025 12,172	8,341 8,751					12,025 12,172	8,341 8,751	
9/10/2018	FALSE	FALSE	FALSE	3.18	8.17	5.88	54%	39%	72%		1.43	5.706774	5.85									12,172	8,751					12,172	8,751	
9/11/2018	FALSE	FALSE	FALSE	3.35	8.59	6.01	56%	39%	70%		1.43	5.733548	5.88									12,172	8,751					12,172	8,751	
9/12/2018	FALSE	FALSE	FALSE	3.26	8.81	6.06	54%	37%	69%		1.45	5.76	5.90									12,172	8,751					12,172	8,751	
9/13/2018 9/14/2018	FALSE FALSE	FALSE FALSE	FALSE FALSE	3.14 3.33	8.67 8.35	5.93 5.96	53% 56%	36% 40%	68% 71%		1.46 1.40	5.779355 5.795484	5.91 5.90	245.80 220.20	178.00 202.00	0.72 0.92		12,156 10,945	8,803 10,041			12,170 12,034	8,758 8,900		12,156 10,945	8,803 10,041		12,170 12,034	8,758 8,900	
9/15/2018	FALSE	FALSE	FALSE	3.23	8.10	5.86	55%	40%	72%		1.38	5.803548	5.91	220.20	202.00	0.52		10,545	10,041			12,065	8,621		10,545	10,041		12,065	8,621	
9/16/2018	FALSE	FALSE	FALSE	3.22	8.25	5.85	55%	39%	71%		1.41	5.810645	5.91									11,894	8,598					11,894	8,598	
9/17/2018	FALSE	FALSE	FALSE	3.14	8.64	5.89	53%	36%	68%		1.47	5.826452	5.93									11,894	8,598					11,894	8,598	
9/18/2018 9/19/2018	FALSE FALSE	FALSE FALSE	FALSE FALSE	3.37 3.32	8.43 8.65	5.96 5.92	57% 56%	40% 38%	71% 68%		1.41 1.46	5.843548 5.854194	5.94 5.93	265.40	217.00	0.82		13,104	10,714			11,894	8,598 8,862		13,104	10,714		11,894	8,598 8,862	
9/20/2018	FALSE	FALSE	FALSE	3.32	8.37	5.79	55%	38%	69%		1.45	5.860645	5.90	203.40	217.00	0.62		13,104	10,714			12,045 12,045	8,862		13,104	10,714		12,045 12,045	8,862	
9/21/2018	FALSE	FALSE	FALSE	3.23	8.22	5.85	55%	39%	71%		1.41	5.866452	5.89	259.90	212.00	0.82		12,680	10,343			12,116	9,027		12,680	10,343		12,116	9,027	
9/22/2018	FALSE	FALSE	FALSE	3.29	7.98	5.71	58%	41%	72%		1.40	5.864194	5.85									12,112	9,173					12,112	9,173	
9/23/2018	FALSE	FALSE	FALSE	3.19	7.89	5.73	56%	40%	73%		1.38	5.859677	5.84									12,114	9,134					12,114	9,134	
9/24/2018 9/25/2018	FALSE FALSE	FALSE FALSE	FALSE FALSE	3.09 3.21	8.28 8.65	5.78 5.81	53% 55%	37% 37%	70% 67%		1.43 1.49	5.859032 5.861613	5.83 5.82									12,114 12,114	9,134 9,134					12,114 12,114	9,134 9,134	
9/26/2018	FALSE	FALSE	FALSE	3.22	8.57	5.77	56%	38%	67%		1.49	5.855806	5.80	260.40	150.00	0.58		12,531	7,218			12,166	8,894		12,531	7,218		12,166	8,894	
9/27/2018	FALSE	FALSE	FALSE	3.25	8.39	5.77	56%	39%	69%		1.45	5.847419	5.78	252.60	187.00	0.74		12,156	8,999			12,165	8,906		12,156	8,999		12,165	8,906	
9/28/2018	FALSE FALSE	FALSE	FALSE	3.31	8.03	5.86	56%	41%	73%		1.37	5.844516	5.79 5.79									12,165	8,906					12,165	8,906	
9/29/2018 9/30/2018	FALSE	FALSE FALSE	FALSE FALSE	3.25 3.12	8.19 8.15	5.89 5.82	55% 54%	40% 38%	72% 71%		1.39 1.40	5.843226 5.839032	5.79									12,137 12,137	8,950 8,950					12,137 12,137	8,950 8,950	
10/1/2018	FALSE	FALSE	FALSE	3.12	8.40	5.96	52%	37%	71%		1.41	5.842581	5.83									12,137	8,950					12,137	8,950	
10/2/2018	FALSE	FALSE	TRUE	3.15	8.36	6.05	52%	38%	72%		1.38	5.856452	5.87									12,137	8,950					12,137	8,950	
10/3/2018 10/4/2018	FALSE	FALSE	TRUE	3.25	8.64 8.61	6.13	53% 54%	38%	71% 71%		1.41		5.91	205 10	196.00	0.62		15 111	0 525			12,137	8,950 9.01 <i>4</i>		15 111	0 525		12,137	8,950 9.01 <i>4</i>	
10/4/2018	FALSE FALSE	FALSE FALSE	TRUE TRUE	3.29 3.27	8.61 8.35	6.14 5.98	54% 55%	38% 39%	71% 72%		1.40 1.40	5.887097 5.890323	5.95 5.98	295.10 297.80	186.00 233.00	0.63 0.78		15,111 14,852	9,525 11,620			12,468 12,706	9,014 9,274		15,111 14,852	9,525 11,620		12,468 12,706	9,014 9,274	
10/6/2018	FALSE	FALSE	FALSE	3.23	8.31	5.80	56%	39%	70%		1.43	5.887742	5.97					,,	,			12,784	9,542		,	,		12,784	9,542	
10/7/2018	FALSE	FALSE	FALSE	3.15	8.17	5.73	55%	39%	70%		1.43	5.88	5.95									12,942	9,658					12,942	9,658	
10/8/2018	FALSE	FALSE	FALSE	3.09	8.05	5.81	53%	38%	72%		1.39	5.879032	5.95									12,942	9,658					12,942	9,658	
10/9/2018 10/10/2018	FALSE FALSE	FALSE FALSE	FALSE FALSE	3.24 3.18	8.30 8.63	5.82 5.81	56% 55%	39% 37%	70% 67%		1.43 1.49	5.879677 5.881613	5.93 5.90	371.00	165.00	0.44		17,977	7,995			12,942 13,501	9,658 9,473		17,977	7,995		12,942 13,501	9,658 9,473	
10/11/2018	FALSE	FALSE	FALSE	3.20	8.25	5.87	55%	39%	71%		1.41	5.88129	5.87	133.10	311.00	2.34		6,516	15,225			12,803	10,048		6,239	15,124		12,775	10,038	
10/12/2018	FALSE	FALSE	FALSE	3.20	8.21	5.85	55%	39%	71%		1.40	5.876129	5.83									12,803	10,048					12,775	10,038	
10/13/2018	FALSE	FALSE	FALSE	3.21	7.88	5.64	57% 56%	41%	72% 71%		1.40	5.862581	5.79									12,803	10,048					12,775	10,038	
10/14/2018 10/15/2018	FALSE FALSE	FALSE FALSE	FALSE FALSE	3.17 3.15	8.00 8.26	5.68 5.78	56% 54%	40% 38%	71% 70%		1.41 1.43	5.854516 5.84871	5.78 5.78									12,875 13,116	10,187 10,205					12,844 13,081	10,175 10,192	
10/16/2018	FALSE	FALSE	FALSE	3.08	8.33	5.81	53%	37%	70%		1.43	5.847097	5.78									13,116	10,205					13,081	10,192	
10/17/2018	FALSE	FALSE	FALSE	3.17	8.49	5.87	54%	37%	69%		1.45	5.847742	5.79	272.90	182.00	0.67		13,360	8,910			13,143	10,061		13,360	8,910		13,112	10,050	
10/18/2018 10/19/2018	FALSE FALSE	FALSE FALSE	FALSE FALSE	3.26 3.20	8.58	5.90 5.81	55% 55%	38% 38%	69%		1.45	5.848065	5.80 5.79	285.70	217.00	0.76		14,058	10,678			13,235	10,123		14,058	10,678		13,207	10,113	
10/19/2018	FALSE	FALSE	FALSE	3.20	8.48 8.05	5.81 5.71	56%	40%	69% 71%		1.46 1.41	5.843226 5.836452	5.79									13,235 13,249	10,123 10,057					13,207 13,218	10,113 10,046	
10/21/2018	FALSE	FALSE	FALSE	3.18	8.03	5.75	55%	40%	72%		1.40	5.835161	5.79									13,249	10,057					13,218	10,046	
10/22/2018	FALSE	FALSE	FALSE	3.13	8.42	5.83	54%	37%	69%		1.44	5.834516	5.81									13,320	10,021					13,285	10,009	
10/23/2018 10/24/2018	FALSE FALSE	FALSE FALSE	FALSE FALSE	3.22 3.19	8.48 8.49	5.89 5.86	55% 54%	38% 38%	69% 69%		1.44	5.840323 5.844516	5.82 5.83	270.60	251.00	0.93		13,225	12,267			13,320	10,021		13,225	12 267		13,285	10,009	
10/24/2010	IALSE	IALSE	IALSE	3.13	0.49	5.00	J4/0	30%	05/0		1.43	7.044310	5.05	270.00	231.00	0.55		13,223	12,207			13,310	10,271		13,223	12,20/		13,279	10,260	1

											Diurnal				Influent		Influent											30-d Avg	30-d Avg 30-d Avg
Date	Butte	CSU	Precip?	Min Influent	Max Influent	Avg Influent		Min % of		Flow Outlier	Peak		7-d Avg of Avg Flow,	Influent TSS Conc.,	BOD	BOD/TSS	NH3-N	Avg Inf TSS Load,	Avg Inf BOD Load,	Avg Inf NH3 Load,	Load Outlier	30-d Avg of TSS		30-d Avg of NH3-N				of non-SN	of non-SN of non-SN
	Break?	Break?		Flow, mgd	d Flow, mgd	Flow, mgd	Avg	Max	Max	Туре	Factor (DPF)	Flow, mgd	mgd	mg/L	Conc., mg/L	Ratio	Conc., mg/L	ppd	ppd	ppd	Туре	Load, ppd	Load, ppd	Load, ppd	ppd	ppd	ppd	TSS Load, ppd	BOD Load, NH3-N ppd Load, ppd
10/25/2018	FALSE	FALSE	FALSE	3.18	8.51	5.88	54%	37%	69%		1.45	5.847742	5.83	294.20	151.00	0.51		14,427	7,405			13,421	9,984		14,427	7,405		13,394	9,974
10/26/2018 10/27/2018	FALSE FALSE	FALSE FALSE	FALSE FALSE	3.18 3.22	8.33 8.13	5.86 5.74	54% 56%	38% 40%	70% 71%		1.42 1.42	5.849355 5.848387	5.82 5.82									13,421 13,520	9,984 10,292					13,394 13,489	9,974 10,280
10/28/2018	FALSE	FALSE	FALSE	3.20	8.51	5.79	55%	38%	68%		1.47	5.849032	5.83									13,691	10,453					13,656	10,440
10/29/2018	FALSE	FALSE	FALSE	3.15	8.14	5.85	54%	39%	72%		1.39	5.84871	5.84									13,691	10,453					13,656	10,440
10/30/2018 10/31/2018	FALSE FALSE	FALSE FALSE	FALSE FALSE	3.16 3.15	8.23 8.40	5.90 5.83	54% 54%	38% 38%	72% 69%		1.39 1.44	5.849032 5.849355	5.85 5.84									13,691 13,691	10,453 10,453					13,656 13,656	10,440 10,440
11/1/2018	FALSE	FALSE	FALSE	3.25	7.98	5.84	56%	41%	73%		1.37	5.845484	5.84									13,691	10,453					13,656	10,440
11/2/2018 11/3/2018	FALSE FALSE	FALSE FALSE	FALSE FALSE	3.18 3.18	8.27 8.11	5.85 5.76	54% 55%	38% 39%	71% 71%		1.41 1.41	5.839032 5.827097	5.83 5.82									13,691 13,691	10,453 10,453					13,656 13,656	10,440 10,440
11/4/2018	FALSE	FALSE	FALSE	3.09	8.66	5.90	52%	36%	68%		1.41	5.819355	5.84									13,488	10,433					13,448	10,440
11/5/2018	FALSE	FALSE	FALSE	3.11	8.19	5.82	53%	38%	71%		1.41	5.814194	5.84									13,261	10,413					13,214	10,396
11/6/2018 11/7/2018	FALSE FALSE	FALSE FALSE	FALSE FALSE	3.17 3.15	8.11 8.09	5.90 5.84	54% 54%	39% 39%	73% 72%		1.37 1.39	5.817419 5.820968	5.85 5.84									13,261 13,261	10,413 10,413					13,214 13,214	10,396 10,396
11/8/2018	FALSE	FALSE	FALSE	3.12	7.95	5.81	54%	39%	73%		1.37	5.820968	5.84	255.60	197.00	0.77		12,385	9,546			13,136	10,289		12,385	9,546		13,096	10,275
11/9/2018	FALSE	FALSE	FALSE	3.14	6.99	5.15	61%	45%	74%		1.36	5.799355	5.75									13,136	10,289					13,096	10,275
11/10/2018 11/11/2018	FALSE FALSE	FALSE FALSE	FALSE FALSE	3.07 3.04	7.22 7.54	5.16 5.36	59% 57%	43% 40%	71% 71%		1.40 1.41	5.778387 5.761935	5.67 5.62									12,329 13,491	10,672 9,761					12,282 13,491	10,655 9,761
11/12/2018	FALSE	FALSE	FALSE	3.08	7.96	5.66	54%	39%	71%		1.41	5.755806	5.59									13,491	9,761					13,491	9,761
11/13/2018	FALSE	FALSE	FALSE	3.18	7.63	5.79	55%	42%	76%		1.32	5.760645	5.58	242.22	470.00	0.50			2 222			13,491	9,761			2 222		13,491	9,761
11/14/2018 11/15/2018	FALSE FALSE	FALSE FALSE	FALSE FALSE	3.11 3.19	7.88 7.74	5.84 5.85	53% 55%	39% 41%	74% 76%		1.35 1.32	5.765806 5.768065	5.58 5.58	249.30 253.00	170.00 259.00	0.68 1.02		12,142 12,344	8,280 12,636			13,266 13,135	9,514 9,960		12,142 12,344	8,280 12,636		13,266 13,135	9,514 9,960
11/16/2018	FALSE	TRUE	FALSE	3.29	8.05	5.86	56%	41%	73%		1.37	5.769677	5.58	255.00	233.00	1.02		22,0	22,000			13,135	9,960		22,3	22,000		13,135	9,960
11/17/2018	FALSE	TRUE	FALSE	3.19	7.97	5.71	56%	40%	72%		1.40	5.764516	5.65									13,097	10,135					13,097	10,135
11/18/2018 11/19/2018	FALSE FALSE	TRUE TRUE	FALSE FALSE	3.23 3.03	7.59	5.72 5.81	56% 52%	40%	77%	inMaxAvgM	0.00 1.31	5.76 5.76	5.72 5.79									12,905 12,905	10,027 10,027					12,905 12,905	10,027 10,027
11/20/2018	FALSE	TRUE	FALSE	3.22	7.85	5.87	55%	41%	75%		1.34	5.765333	5.82									12,905	10,027					12,905	10,027
11/21/2018	TRUE	TRUE	TRUE	3.16	8.50	6.18	51%	37%	73%		1.38	5.779667	5.87	274.50	210.00	0.77		14,148	10,824			13,112	10,160		14,148	10,824		13,112	10,160
11/22/2018 11/23/2018	TRUE TRUE	TRUE TRUE	TRUE TRUE	3.39 3.28	9.43 8.48	6.02 5.88	56% 56%	36% 39%	64% 69%		1.57 1.44	5.786 5.785667	5.90 5.90									13,112 13,112	10,160 10,160					13,112 13,112	10,160 10,160
11/24/2018	TRUE	TRUE	FALSE	3.40	8.78	6.10	56%	39%	69%		1.44	5.793667	5.94									13,089	9,738					13,089	9,738
11/25/2018	TRUE	TRUE	FALSE	3.31	8.88	6.35	52%	37%	72%		1.40	5.809333	6.03									12,755	10,321					12,755	10,321
11/26/2018 11/27/2018	TRUE FALSE	TRUE FALSE	FALSE TRUE	3.24 3.31	8.50 8.79	6.46 6.61	50% 50%	38% 38%	76% 75%		1.32 1.33	5.829333 5.858333	6.08 6.18									12,755 12,755	10,321 10,321					12,755 12,755	10,321 10,321
11/28/2018	FALSE	FALSE	TRUE	3.49	9.03	6.70	52%	39%	74%		1.35	5.888667	6.29	248.60				13,891				12,982	10,321		13,891			12,982	10,321
11/29/2018	FALSE	FALSE	TRUE	3.85	11.12	8.34	46%	35%	75%		1.33	5.971667	6.56	244.80	173.00	0.71		17,027	12,033			13,656	10,664		16,972	12,008		13,647	10,659
11/30/2018 12/1/2018	FALSE FALSE	FALSE FALSE	TRUE FALSE	4.47 3.69	11.13 10.08	7.97 7.20	56% 51%	40% 37%	72% 71%		1.40 1.40	6.040667 6.086333	6.80 6.97									13,656 13,656	10,664 10,664					13,647 13,647	10,659 10,659
12/2/2018	FALSE	FALSE	FALSE	3.47	9.87	6.99	50%	35%	71%		1.41	6.124667	7.08									13,656	10,664					13,647	10,659
12/3/2018	FALSE	FALSE	FALSE	3.41	9.32	6.79	50%	37%	73%		1.37	6.156	7.13									13,656	10,664					13,647	10,659
12/4/2018 12/5/2018	FALSE FALSE	FALSE FALSE	FALSE TRUE	3.33 3.33	9.32 9.15	6.70 6.70	50% 50%	36% 36%	72% 73%		1.39 1.37	6.187333 6.214	7.16 7.17	218.40	234.00	1.07		12,204	13,075			13,656 13,449	10,664 11,066		12,204	13,075		13,647 13,441	10,659 11,062
12/6/2018	FALSE	FALSE	FALSE	3.33	9.14	6.63	50%	36%	73%		1.38	6.241	7.17	221.70	244.00	1.10		12,259	13,492			13,300	11,412		12,259	13,492		13,293	11,409
12/7/2018 12/8/2018	FALSE FALSE	FALSE FALSE	FALSE FALSE	3.36 3.29	8.93 9.27	6.53 6.42	51% 51%	38% 35%	73% 69%		1.37 1.44	6.262 6.281333	6.94 6.75									13,300 13,300	11,412 11,412					13,293 13,293	11,409 11,409
12/8/2018	FALSE	FALSE	FALSE	3.29	9.27	6.44	50%	35% 35%	70%		1.44	6.302333	6.65									13,431	11,412					13,423	11,719
12/10/2018	FALSE	FALSE	TRUE	3.20	8.53	6.38	50%	38%	75%		1.34	6.343333	6.57									13,431	11,723					13,423	11,719
12/11/2018 12/12/2018	FALSE FALSE	FALSE FALSE	FALSE FALSE	3.16 3.16	8.80 8.96	6.45 6.40	49% 49%	36% 35%	73% 71%		1.36 1.40	6.386333 6.421	6.53 6.49	233.30	235.00	1.01		12,453	12,543			13,431 13,308	11,723 11,841		12,453	12,543		13,423 13,302	11,719 11,837
12/12/2018	FALSE	FALSE	FALSE	3.27	8.56	6.34	52%	38%	74%		1.35	6.443667	6.45	247.00	198.00	0.80		13,060	10,469			13,281	11,669		12,455	10,415		13,254	11,659
12/14/2018	FALSE	FALSE	TRUE	3.22	8.62	6.37	51%	37%	74%		1.35	6.463	6.42									13,281	11,669					13,254	11,659
12/15/2018 12/16/2018	FALSE FALSE	FALSE TRUE	TRUE TRUE	3.37 3.27	9.63 12.22	6.58 7.44	51% 44%	35% 27%	68% 61%		1.46 1.64	6.487667 6.540667	6.42 6.55									13,423 13,577	12,153 12,073					13,393 13,543	12,142 12,060
12/17/2018	FALSE	TRUE	TRUE	7.34	12.22	10.16	72%	60%		inAvgMinM	1.04	6.564138	6.57									13,577	12,073					13,543	12,060
12/18/2018	FALSE	TRUE	FALSE	4.35	11.12	8.06	54%	39%	72%		1.38	6.645172	6.81	400	2.2			0 ===	45.0:=			13,577	12,073		0 ===	45.0:=		13,543	12,060
12/19/2018 12/20/2018	TRUE TRUE	TRUE TRUE	FALSE TRUE	3.71 3.78	9.81 9.30	7.39 7.14	50% 53%	38% 41%	75% 77%		1.33 1.30	6.67 6.714333	6.94 7.05	139.20	249.00	1.79		8,579	15,347			12,953 12,953	12,540 12,540		8,579	15,347		12,922 12,922	12,529 12,529
12/21/2018	TRUE	TRUE	TRUE	3.67	9.51	7.25	51%	39%	76%		1.31	6.760333	7.18									12,953	12,540					12,922	12,529
12/22/2018	TRUE	TRUE	FALSE	3.68	9.56	6.72	55%	38%	70%		1.42	6.778333	7.23									12,782	12,827					12,747	12,813
12/23/2018 12/24/2018	TRUE TRUE	TRUE TRUE	TRUE TRUE	3.42 3.57	9.40 9.80	6.34 6.75	54% 53%	36% 36%	67% 69%		1.48 1.45	6.789 6.818	7.19 7.09									12,782 12,782	12,827 12,827					12,747 12,747	12,813 12,813
12/25/2018	TRUE	TRUE	TRUE	3.97	8.33	6.44	62%	48%	77%		1.29	6.829333	7.01									12,782	12,827					12,747	12,813
12/26/2018	TRUE	TRUE	TRUE	3.50	8.81	6.56	53%	40%	74%		1.34	6.836333	6.82									12,782	12,827					12,747	12,813

											Diurnal				Influent		Influent											30-d Avg	30-d Avg 30-d Avg
Date	Butte	CSU	Precip?	Min Influent	Max Influent	Avg Influent		Min % of		Flow Outlier	Peak		7-d Avg of Avg Flow,		BOD	BOD/TSS	NH3-N	Avg Inf TSS Load,	Avg Inf BOD Load,	Avg Inf NH3 Load,	Load Outlier	30-d Avg of TSS		30-d Avg of NH3-N				of non-SN	of non-SN of non-Si
	Break?	Break?		Flow, mg	d Flow, mg	d Flow, mgd	Avg	Max	Max	Туре	Factor (DPF)	Flow, mgd		mg/L	Conc., mg/L	Ratio	Conc., mg/L	ppd	ppd	ppd	Туре	Load, ppd	Load, ppd	Load, ppd	ppd	ppd	ppd	TSS Load, ppd	BOD Load, NH3-N ppd Load, pp
12/27/2018	TRUE	TRUE	FALSE	3.53	8.49	6.52	54%	42%	77%		1.30	6.838333	6.72	218.00	176.00	0.81		11,854	9,570			12,666	12,361		11,854	9,570		12,635	12,350
12/28/2018 12/29/2018	TRUE TRUE	TRUE TRUE	FALSE FALSE	3.27 3.35	8.27 8.61	6.24 6.05	52% 55%	40% 39%	75% 70%		1.33 1.42	6.826 6.804333	6.60 6.45									12,666 12,491	12,361 12,361					12,635 12,456	12,350 12,350
12/30/2018	TRUE	TRUE	FALSE	3.25	8.10	5.91	55%	40%	73%		1.37	6.723333	6.35									11,735	12,416					11,703	12,407
12/31/2018 1/1/2019	TRUE TRUE	TRUE TRUE	FALSE FALSE	3.18 3.26	8.19 7.80	6.02 5.64	53% 58%	39% 42%	74% 72%		1.36 1.38	6.658333 6.61	6.31 6.17									11,735 11,735	12,416 12,416					11,703 11,703	12,407 12,407
1/2/2019	TRUE	TRUE	FALSE	3.13	7.68	5.88	53%	41%	77%		1.31	6.57	6.10									11,735	12,416					11,703	12,407
1/3/2019	TRUE	TRUE	FALSE	3.23	7.79	5.92	55%	41%	76%		1.32	6.54	6.02	259.70	191.00	0.74		12,822	9,430			11,890	11,990		12,822	9,430		11,863	11,982
1/4/2019 1/5/2019	TRUE TRUE	TRUE TRUE	FALSE TRUE	3.24 3.13	7.81 8.89	5.93 6.04	55% 52%	41% 35%	76% 68%		1.32 1.47	6.51 6.49	5.95 5.92									11,890 11,838	11,990 11,809					11,863 11,806	11,982 11,800
1/6/2019	TRUE	TRUE	TRUE	3.29	13.05	7.59	43%	25%	58%		1.72	6.52	6.12									11,754	11,472					11,716	11,461
1/7/2019	TRUE	TRUE	TRUE	5.79	12.39	9.08	64%	47%	73%		1.36	6.61	6.51									11,754	11,472					11,716	11,461
1/8/2019 1/9/2019	TRUE TRUE	TRUE TRUE	TRUE TRUE	4.22 8.16	12.68 12.98	8.18 11.01	52% 74%	33% 63%	65% 85%	inAvgMinM	1.55 1.18	6.67 6.68	6.78 6.95	147.20	223.00	1.51		13,516	20,477			11,754 12,047	11,472 12,973		13,516	20,477		11,716 12,016	11,461 12,964
1/10/2019	TRUE	TRUE	TRUE	5.43	11.43	8.87	61%	48%	78%		1.29	6.76	7.37	157.80	189.00	1.20		11,673	13,981			11,994	13,117		11,673	13,981		11,967	13,109
1/11/2019	TRUE	TRUE	FALSE	4.72	11.01	8.09	58%	43%	73%		1.36	6.82	7.68									11,994	13,117					11,967	13,109
1/12/2019 1/13/2019	TRUE TRUE	TRUE TRUE	FALSE FALSE	4.22 3.86	9.72 9.58	7.37 7.11	57% 54%	43% 40%	76% 74%		1.32 1.35	6.85 6.88	7.89 8.04									11,918 11,689	13,212 13,761					11,886 11,689	13,203 13,761
1/14/2019	TRUE	TRUE	TRUE	3.53	9.14	6.87	51%	39%	75%		1.33	6.90	7.94									11,689	13,761					11,689	13,761
1/15/2019	TRUE	TRUE	TRUE	3.64	10.75	7.07	51%	34%	66%		1.52	6.91	7.65	213.50				10.010				11,689	13,761		10.010			11,689	13,761
1/16/2019 1/17/2019	TRUE TRUE	TRUE TRUE	TRUE TRUE	5.53 8.35	17.15 17.17	11.13 12.13	50% 69%	32% 49%	65% 71%		1.54 1.42	7.04 7.21	8.07 8.58	161.20	219.00	1.36		19,818 16,308	22,155			13,044 13,510	13,761 15,160		19,818 16,308	22,155		13,044 13,510	13,761 15,160
1/18/2019	TRUE	TRUE	TRUE	6.16	12.59	9.83	63%	49%	78%		1.28	7.27	8.70					•	,			13,510	15,160		,	,		13,510	15,160
1/19/2019	TRUE	TRUE	TRUE	5.34	12.23	8.76	61%	44%	72%		1.40	7.31	8.78									14,332	15,123					14,332	15,123
1/20/2019 1/21/2019	TRUE TRUE	TRUE TRUE	TRUE TRUE	4.58 4.63	11.39 11.09	8.26 8.50	55% 54%	40% 42%	73% 77%		1.38 1.30	7.35 7.39	8.90 9.07									14,332 14,332	15,123 15,123					14,332 14,332	15,123 15,123
1/22/2019	TRUE	TRUE	FALSE	3.98	11.02	7.98	50%	36%	72%		1.38	7.44	9.21									14,332	15,123					14,332	15,123
1/23/2019 1/24/2019	TRUE FALSE	FALSE FALSE	FALSE FALSE	3.98 3.81	10.55 10.54	7.67	52% 51%	38% 36%	73%		1.38	7.48 7.50	9.28 8.83	145.20	263.00 236.00	1.81 1.23		9,288	16,824 14,703			13,611	15,406		9,288 11,565	16,824		13,611	15,406
1/25/2019	FALSE	FALSE	FALSE	3.71	9.86	7.47 7.13	52%	38%	71% 72%		1.41 1.38	7.53	8.20	191.50	236.00	1.25		11,930	14,703			13,401 13,401	15,306 15,306		11,505	14,604		13,356 13,356	15,292 15,292
1/26/2019	FALSE	FALSE	FALSE	3.59	10.22	7.01	51%	35%	69%		1.46	7.54	7.85									13,401	15,306					13,356	15,292
1/27/2019 1/28/2019	FALSE FALSE	FALSE	FALSE FALSE	3.47 3.39	9.74	6.94	50%	36% 36%	71%		1.40	7.56	7.62 7.45									13,622	16,262					13,570 13,570	16,245 16,245
1/29/2019	FALSE	FALSE FALSE	FALSE	3.39	9.42 9.38	6.92 6.80	49% 50%	36%	73% 72%		1.36 1.38	7.58 7.60	7.45									13,622 13,622	16,262 16,262					13,570	16,245
1/30/2019	FALSE	FALSE	FALSE	3.37	9.58	6.74	50%	35%	70%		1.42	7.63	7.09	238.80	253.00	1.06		13,423	14,222			13,597	15,970		13,423	14,222		13,552	15,956
1/31/2019 2/1/2019	FALSE FALSE	FALSE FALSE	FALSE TRUE	3.47 3.33	9.28 9.26	6.67 6.70	52% 50%	37% 36%	72% 72%		1.39 1.38	7.65 7.69	6.96 6.86	214.80	229.00	1.07		11,949	12,739			13,414 13,414	15,566 15,566		11,949	12,739		13,374 13,374	15,554 15,554
2/2/2019	FALSE	FALSE	TRUE	4.87	15.57	10.54	46%	31%	68%		1.48	7.84	7.29									13,414	15,566					13,374	15,554
2/3/2019	FALSE	FALSE	TRUE	8.26	15.20	11.73	70%	54%	77%	MinAvg	1.30	7.91	7.33									13,488	16,443					13,443	16,429
2/4/2019 2/5/2019	FALSE FALSE	FALSE FALSE	TRUE TRUE	7.49 6.25	15.15 13.25	11.93 10.19	63% 61%	49% 47%	79% 77%		1.27 1.30	8.12 8.26	8.04 8.51									13,488 13,488	16,443 16,443					13,443 13,443	16,429 16,429
2/6/2019	FALSE	FALSE	FALSE	5.45	12.15	9.30	59%	45%	77%		1.31	8.32	8.87									13,488	16,443					13,443	16,429
2/7/2019	FALSE	FALSE	FALSE	4.52	11.50	8.49	53%	39%	74%		1.35	8.30	9.12	200.40				14,190	45 = 1			13,566	16,443		14,190			13,526	16,429
2/8/2019 2/9/2019	FALSE FALSE	FALSE FALSE	TRUE TRUE	4.20 4.09	11.16 10.85	8.03 7.77	52% 53%	38% 38%	72% 72%		1.39 1.40	8.29 8.28	9.31 9.46	162.90	188.00	1.15		10,909	12,590			13,301 13,277	15,961 15,316		10,909	12,590		13,264 13,236	15,949 15,302
2/10/2019	FALSE	FALSE	FALSE	3.83	10.17	7.52	51%	38%	74%		1.35	8.23	9.03									13,477	15,539					13,431	15,522
2/11/2019	FALSE	FALSE	FALSE	3.54	10.18	7.30	48%	35%	72%		1.39	8.20	8.82									13,477	15,539					13,431	15,522
2/12/2019 2/13/2019	FALSE FALSE	FALSE FALSE	TRUE TRUE	3.42 5.74	9.95 20.93	7.08 13.34	48% 43%	34% 27%	71% 64%		1.41 1.57	8.19 8.40	8.21 8.60	201.70				22,440				13,477 14,473	15,539 15,539		22,440			13,431 14,432	15,522 15,522
2/14/2019	FALSE	FALSE	TRUE	16.13	22.01	18.59	87%	73%		inAvgMinM	1.18	8.46	8.50	134.80	163.00	1.21		20,899	25,272			15,116	16,929		20,899	25,272		15,079	16,915
2/15/2019	FALSE	FALSE	FALSE	10.10	17.23	13.94	72%	59%		inAvgMinM	1.24	8.50	8.51									15,116	16,929					15,079	16,915
2/16/2019 2/17/2019	FALSE FALSE	FALSE FALSE	FALSE TRUE	5.58 5.73	15.55 12.37	11.29 9.46	49% 61%	36% 46%	73% 76%		1.38 1.31	8.51 8.42	9.05 9.33									14,593 14,379	16,929 16,058					14,552 14,333	16,915 16,042
2/18/2019	FALSE	FALSE	FALSE	4.93	11.52	8.97	55%	43%	78%		1.28	8.38	9.57									14,379	16,058					14,333	16,042
2/19/2019	FALSE	FALSE	FALSE	4.25	11.12	7.69	55% 51%	38%	69%		1.45	8.35	9.64	172.40	225.00	1.20		11 570	15.050			14,379	16,058		11 570	15.050		14,333	16,042
2/20/2019 2/21/2019	FALSE FALSE	FALSE FALSE	FALSE FALSE	4.09 3.91	11.10 10.54	8.02 7.71	51% 51%	37% 37%	72% 73%		1.38 1.37	8.34 8.31	9.80 8.86	173.10 152.00	225.00 262.00	1.30 1.72		11,578 9,774	15,050 16,847			14,068 13,638	15,914 16,031		11,578 9,774	15,050 16,847		14,027 13,602	15,900 16,018
2/22/2019	FALSE	FALSE	FALSE	3.84	10.16	7.32	52%	38%	72%		1.39	8.29	8.64			_		- 7 1	»,= ··			13,638	16,031		- / '	-,		13,602	16,018
2/23/2019	FALSE	FALSE	FALSE	3.70	9.92	7.10	52%	37%	72%		1.40	8.27	8.45									14,121	15,917					14,081	15,903
2/24/2019 2/25/2019	FALSE FALSE	FALSE FALSE	TRUE TRUE	3.54 3.52	10.08 14.10	7.13 8.34	50% 42%	35% 25%	71% 59%	MinMax	1.41 1.69	8.25 8.29	7.93 7.71									14,395 14,395	16,120 16,120					14,395 14,395	16,120 16,120
2/26/2019	FALSE	FALSE	TRUE	8.02	26.46	16.10	50%	30%	61%		1.64	8.63	8.72									14,395	16,120					14,395	16,120
2/27/2019	FALSE	FALSE	TRUE	16.84	24.57	20.49	82%	69%	83%	in Avg Min M	1.20	8.70	8.90									14,395	16,120					14,395	16,120

											Diurnal				Influent		Influent											30-d Avg	30-d Avg 30-d Avg
Date	Butte	CSU	Precip?	Min Influent	Max Influent	Avg Influent		Min % of		Flow Outlier	Peak		7-d Avg of Avg Flow,		BOD	BOD/TSS	NH3-N	Avg Inf TSS Load,	Avg Inf BOD Load,	Avg Inf NH3 Load,	Load Outlier	30-d Avg of TSS		30-d Avg of NH3-N				of non-SN	of non-SN of non-SN
	Break?	Break?				d Flow, mgd	Avg	Max	Max	Туре	Factor (DPF)	Flow, mgd		mg/L	Conc., mg/L	Ratio	Conc., mg/L	ppd	ppd	ppd	Туре			Load, ppd		ppd	ppd	TSS Load, ppd	BOD Load, NH3-N ppd Load, ppd
2/28/2019	FALSE	FALSE	FALSE	11.02	19.27	14.90	74%	57%		inAvgMinM	1.29	8.77	9.07	93.50	149.00	1.59		11,619	18,516			14,087	16,462		11,619	18,516		14,087	16,462
3/1/2019 3/2/2019	FALSE FALSE	FALSE FALSE	TRUE TRUE	9.50 8.71	16.51 17.34	13.22 13.37	72% 65%	58% 50%	80% 77%	inAvgMinM	1.25 1.30	8.85 9.13	9.41 10.93	135.80	268.00	1.97		14,973	29,548			14,175 14,259	18,098 18,652		14,973	29,548		14,175 14,259	18,098 18,652
3/3/2019	FALSE	FALSE	TRUE	8.99	16.95	13.59	66%	53%	80%		1.25	9.41	12.55									14,548	19,637					14,548	19,637
3/4/2019 3/5/2019	FALSE FALSE	FALSE FALSE	FALSE TRUE	9.68 8.35	16.98 16.16	13.52 12.67	72% 66%	57% 52%	80% 78%	inAvgMinM	1.26 1.28	9.53 9.62	14.35 13.93									14,548 14,548	19,637 19,637					14,548 14,548	19,637 19,637
3/6/2019	FALSE	FALSE	TRUE	10.43	17.59	14.84	70%	59%		inAvgMinM		9.62	13.21									14,548	19,637					14,548	19,637
3/7/2019	FALSE	FALSE	FALSE	10.06	17.42	14.18	71%	58%		inAvgMinM		9.52	13.21	142.60	187.00	1.31		16,864	22,115			14,805	19,991		16,864	22,115		14,805	19,991
3/8/2019 3/9/2019	FALSE FALSE	FALSE FALSE	FALSE TRUE	9.24 8.41	16.81 15.14	12.68 12.01	73% 70%	55% 56%	75% 79%	inAvgMinM inAvgMinM	1.33 1.26	9.49 9.50	13.21 13.21	138.60	204.00	1.47		14,657	21,573			14,790 14,790	20,189 20,189		14,657	21,573		14,790 14,790	20,189 20,189
3/10/2019	FALSE	FALSE	TRUE	7.95	14.58	11.41	70%	55%	78%	MinAvg	1.28	9.55	13.13									14,857	20,189					14,857	20,189
3/11/2019	FALSE	FALSE	FALSE	7.34	14.29	11.08	66%	51%	78%		1.29	9.71	11.88									15,351	21,274					15,351	21,274
3/12/2019 3/13/2019	FALSE TRUE	FALSE FALSE	FALSE FALSE	7.63 7.23	15.03 13.56	10.69 10.38	71% 70%	51% 53%	71% 77%	MinAvg MinAvg	1.41 1.31	9.82 9.95	11.88 11.08	194.20	230.00	1.18		16,812	19,911			15,351 15,513	21,274 21,104		16,812	19,911		15,351 15,513	21,274 21,104
3/14/2019	TRUE	FALSE	FALSE	7.01	13.36	9.94	71%	52%	74%	MinAvg	1.34	10.12	11.08	195.70				16,223				15,584	21,104		15,888			15,550	21,104
3/15/2019	TRUE	FALSE	FALSE	6.82	12.50	9.46	72%	55%	76%	MinAvg	1.32	10.32	11.08									15,584	21,104					15,550	21,104
3/16/2019 3/17/2019	TRUE TRUE	TRUE TRUE	FALSE FALSE	6.77 6.70	11.12 10.92	8.98 8.81	75% 76%	61% 61%		inAvgMinM inAvgMinM		10.11 10.11	11.08 11.08									14,822 14,062	21,104 20,508					14,785 14,021	21,104 20,508
3/18/2019	TRUE	TRUE	FALSE	6.70	10.53	8.65	77%	64%		inAvgMinM		10.11	11.08									14,062	20,508					14,021	20,508
3/19/2019	TRUE	TRUE	FALSE	6.65	10.70	8.74	76%	62%	82%	inAvgMinM		10.02	#DIV/0!									14,062	20,508					14,021	20,508
3/20/2019 3/21/2019	FALSE FALSE	TRUE TRUE	TRUE FALSE	6.73 6.86	10.57 11.01	9.02 8.86	75% 77%	64% 62%	85% 80%	inAvgMinM inAvgMinM		10.06 10.16	#DIV/0! #DIV/0!	233.90	299.00	1.28		17,283	22,094			14,062 14,420	20,508 20,707		17,283	22,094		14,021 14,383	20,508 20,707
3/22/2019	FALSE	TRUE	TRUE	6.96	10.86	9.01	77%	64%		inAvgMinM	1.21	10.41	#DIV/0!	245.90	197.00	0.80		18,478	14,803			14,826	20,051		18,478	14,803		14,793	20,051
3/23/2019	FALSE	TRUE	TRUE	6.73	12.43	9.38	72%	54%	75%	MinAvg	1.33	10.67	#DIV/0!									15,187	20,676					15,150	20,676
3/24/2019 3/25/2019	FALSE FALSE	TRUE TRUE	FALSE TRUE	6.76 6.59	11.71 13.11	9.45 10.21	72% 65%	58% 50%	81% 78%	inAvgMinM	1.24 1.28	11.05 11.41	#DIV/0! 10.21									15,864 15,864	21,223 21,223					15,822 15,822	21,223 21,223
3/26/2019	FALSE	TRUE	TRUE	7.44	13.61	10.35	72%	55%	76%	MinAvg	1.31	12.02	10.21									15,864	21,223					15,822	21,223
3/27/2019	FALSE	FALSE	TRUE	8.11	13.71	11.33	72%	59%	83%	inAvgMinM	1.21	12.84	10.21	218.30	215.00	0.98		20,628	20,316			16,393	21,109		20,628	20,316		16,356	21,109
3/28/2019 3/29/2019	FALSE FALSE	FALSE FALSE	TRUE FALSE	7.60 7.30	14.13 13.33	10.77 10.10	71% 72%	54% 55%	76% 76%	MinAvg inAvgMinM	1.31 1.32	12.84 12.18	10.21 10.21	127.90	235.00	1.84		11,488	21,108			15,902 15,902	21,109 21,109		11,488	21,108		15,869 15,869	21,109 21,109
3/30/2019	FALSE	FALSE	FALSE	7.19	12.08	9.75	74%	60%		inAvgMinM		12.18	10.21									15,902	21,109					15,869	21,109
3/31/2019	FALSE	FALSE	FALSE	6.94	12.10	9.53	73%	57%	79%	inAvgMinM		12.18	10.21									16,378	21,434					16,341	21,434
4/1/2019 4/2/2019	FALSE FALSE	FALSE FALSE	TRUE TRUE	7.18 7.00	12.44 24.55	9.78 11.31	73% 62%	58% 29%	79% 46%	inAvgMinM AvgMax	1.27 2.17	12.18 11.89	10.21 #DIV/0!									16,554 16,554	20,274 20,274					16,512 16,512	20,274 20,274
4/3/2019	FALSE	FALSE	FALSE	12.76	24.15	15.87	80%	53%	66%	MinAvg	1.52	11.32	#DIV/0!	313.20	105.00	0.34		41,454	13,897			19,321	19,477		41,454	13,897		19,284	19,477
4/4/2019	FALSE	FALSE	FALSE	8.85	15.77	12.46	71%	56%	79%	inAvgMinM	1.27	11.32	#DIV/0!	124.10	225.00	4.60		42.074	22.024			19,321	19,477		42.074	22.024		19,284	19,477
4/5/2019 4/6/2019	FALSE FALSE	FALSE FALSE	TRUE TRUE	8.41 7.89	14.88 13.62	11.69 10.87	72% 73%	57% 58%	79% 80%	inAvgMinM inAvgMinM		10.65 10.65	#DIV/0! #DIV/0!	134.10	226.00	1.69		13,074	22,034			18,696 18,696	19,761 19,761		13,074	22,034		18,663 18,663	19,761 19,761
4/7/2019	FALSE	FALSE	FALSE	7.46	12.61	10.27	73%	59%		inAvgMinM		10.65	#DIV/0!									18,900	19,467					18,862	19,467
4/8/2019	FALSE	FALSE	FALSE	7.18	12.95	10.30	70%	55%		inAvgMinM		10.65	#DIV/0!									19,430	19,166					19,388	19,166
4/9/2019 4/10/2019	FALSE FALSE	FALSE FALSE	FALSE FALSE	6.78 6.77	12.50 12.50	10.03 9.55	68% 71%	54% 54%	80% 76%	MinAvg	1.25 1.31	10.44 10.44	10.03 10.03									19,430 19,430	19,166 19,166					19,388 19,388	19,166 19,166
4/11/2019	FALSE	FALSE	FALSE	6.72	11.92	9.44	71%	56%		inAvgMinM		10.12	10.03	238.10				18,746				19,354	19,166		18,746			19,317	19,166
4/12/2019	FALSE	FALSE	FALSE	6.79	11.63	9.35	73%	58%		inAvgMinM		10.12	10.03	228.00	223.00	0.98		17,779	17,389			19,196	18,944		17,779	17,389		19,163	18,944
4/13/2019 4/14/2019	FALSE FALSE	FALSE FALSE	FALSE FALSE	6.80 6.63	11.20 11.22	9.06 9.17	75% 72%	61% 59%		inAvgMinM inAvgMinM		10.12 10.12	10.03 10.03									19,461 19,866	18,806 18,806					19,424 19,866	18,806 18,806
4/15/2019	FALSE	FALSE	TRUE	6.79	11.65	9.39	72%	58%		inAvgMinM		10.12	10.03									19,866	18,806					19,866	18,806
4/16/2019	FALSE	FALSE	TRUE	6.76	11.63	9.12	74%	58%		inAvgMinM		10.12	10.03	242.52	405.00			40.040	= 00.			19,866	18,806			7.004		19,866	18,806
4/17/2019 4/18/2019	FALSE FALSE	FALSE FALSE	FALSE FALSE	6.46 3.40	11.71 11.58	8.98 7.47	72% 46%	55% 29%	77% 65%	inAvgMinM	1.30 1.55	10.12 9.24	#DIV/0! 7.47	240.50 232.40	105.00 188.00	0.44 0.81		18,012 14,478	7,864 11,712			19,660 19,142	17,438 16,802		18,012 14,478	7,864 11,712		19,660 19,142	17,438 16,802
4/19/2019	FALSE	FALSE	FALSE	3.58	8.91	6.67	54%	40%	75%		1.34	8.60	7.07	232.40	100.00	0.01		11,170	11,712			19,142	16,802		11,170	11,712		19,142	16,802
4/20/2019	FALSE	FALSE	TRUE	3.46	8.73	6.50	53%	40%	74%		1.34	8.18	6.88									19,142	16,802					19,142	16,802
4/21/2019 4/22/2019	FALSE FALSE	FALSE FALSE	FALSE FALSE	3.40 3.34	9.04 9.01	6.29 6.57	54% 51%	38% 37%	70% 73%		1.44 1.37	7.86 7.68	6.73 6.70									19,348 19,457	16,140 16,332					19,348 19,457	16,140 16,332
4/23/2019	FALSE	FALSE	FALSE	3.48	9.57	6.58	53%	36%	69%		1.45	7.54	6.68									19,457	16,332					19,457	16,332
4/24/2019	FALSE	FALSE	FALSE	3.44	9.48	6.57	52%	36%	69%		1.44	7.43	6.66	185.30	168.00	0.91		10,153	9,205			18,424	15,441		10,153	9,205		18,424	15,441
4/25/2019 4/26/2019	FALSE FALSE	FALSE FALSE	FALSE FALSE	3.35 3.34	9.25 9.14	6.47 6.41	52% 52%	36% 37%	70% 70%		1.43 1.43	7.02 6.96	6.64 6.51	227.60	159.00	0.70		12,167	8,500			18,424 17,798	15,441 14,670		12,167	8,500		18,424 17,798	15,441 14,670
4/27/2019	FALSE	FALSE	FALSE	3.42	8.51	6.23	55%	40%	73%		1.37	6.89	6.45	227.00	133.00	5.70		12,107	5,500			17,738	13,964		12,107	5,500		17,738	13,964
4/28/2019	FALSE	FALSE	FALSE	3.39	8.47	6.29	54%	40%	74%		1.35	6.84	6.43									18,233	12,943					18,233	12,943
4/29/2019 4/30/2019	FALSE FALSE	FALSE FALSE	FALSE FALSE	3.33 3.39	8.96 9.32	6.42 6.36	52% 53%	37% 36%	72% 68%		1.40 1.47	6.81 6.78	6.44 6.42									18,233 18,233	12,943 12,943					18,233 18,233	12,943 12,943
5/1/2019	FALSE	FALSE	FALSE	3.32	9.09	6.27	53%	37%	69%		1.45	6.74	6.38	276.50	219.00	0.79		14,459	11,452				12,757		14,459	11,452		17,814	

											Diurnal				Influent		Influent											30-d Ava	30-d Avg 3	30-d Avg
Date	Butte	CSU	Precip?	Min Influent	Max Influent	Avg Influent	Min % of	Min % of		Flow Outlier	Diurnal Peak		7-d Avg of Avg Flow,	Influent TSS Conc.,	Influent BOD	BOD/TSS		Avg Inf TSS Load,	Avg Inf BOD Load,	Avg Inf NH3 Load,	Load Outlier	30-d Avg of TSS		30-d Avg of NH3-N			NH3 Load.	of non-SN	of non-SN o	of non-SN
	Break?	Break?			d Flow, mgd		Avg	Max	Max	Туре	Factor (DPF)	Flow, mgd		mg/L	Conc., mg/L	Ratio	Conc., mg/L	ppd	ppd	ppd	Туре			Load, ppd		ppd	ppd	TSS Load, ppd		NH3-N .oad, ppd
5/2/2019	FALSE	FALSE	FALSE	3.32	9.20	6.28	53%	36%	68%		1.46	6.71	6.34	188.60	189.00	1.00		9,878	9,899			17,020	12,439		9,878	9,899		17,020	12,439	
5/3/2019 5/4/2019	FALSE FALSE	FALSE FALSE	FALSE FALSE	3.35 3.36	8.87 8.52	6.37 6.19	53% 54%	38% 39%	72% 73%		1.39 1.38	6.69 6.67	6.33 6.30									17,020 14,305	12,439 12,257					17,020 14,305	12,439 12,257	
5/5/2019	FALSE	FALSE	FALSE	3.26	8.79	6.23	52%	37%	71%		1.41	6.64	6.30									14,305	12,257					14,305	12,257	
5/6/2019 5/7/2019	FALSE FALSE	FALSE FALSE	FALSE FALSE	3.20 3.29	8.77 8.96	6.29 6.34	51% 52%	36% 37%	72% 71%		1.39 1.41	6.62 6.61	6.30 6.29									14,459 14,459	10,860 10,860					14,459 14,459	10,860 10,860	
5/8/2019	FALSE	FALSE	FALSE	3.37	9.04	6.35	53%	37%	70%		1.42	6.60	6.29	284.70	192.00	0.67		15,077	10,168			14,528	10,774		15,077	10,168		14,528	10,774	
5/9/2019 5/10/2019	FALSE	FALSE FALSE	FALSE FALSE	3.28	9.02	6.38	51% 56%	36% 40%	71%		1.41	6.59	6.30 6.30	221.40	246.00	1.11		11,781	13,089			14,253	11,031		11,781	13,089		14,253	11,031	
5/11/2019	FALSE FALSE	FALSE	FALSE	3.51 3.35	8.77 8.38	6.24 6.11	55%	40%	71% 73%		1.41	6.42 6.41	6.27									14,253 14,253	11,031 11,031					14,253 14,253	11,031 11,031	
5/12/2019	FALSE	FALSE	FALSE	3.27	8.36	6.04	54%	39%	72%		1.38	6.40	6.25									13,754	11,031					13,754	11,031	
5/13/2019 5/14/2019	FALSE FALSE	FALSE FALSE	FALSE FALSE	3.30 3.40	8.47 8.67	6.20 6.31	53% 54%	39% 39%	73% 73%		1.37 1.37	6.39 6.39	6.24 6.25									13,251 13,251	10,236 10,236					13,251 13,251	10,236 10,236	
5/15/2019	FALSE	FALSE	TRUE	3.55	11.00	6.63	54%	32%	60%		1.66	6.40	6.28									13,251	10,236					13,251	10,236	
5/16/2019	FALSE	FALSE	TRUE	5.38	11.01	8.64	62%	49%	78%		1.27	6.47	6.57	259.10	204.00	0.79		18,670	14,700			13,853	10,732		18,670	14,700		13,853	10,732	
5/17/2019 5/18/2019	FALSE FALSE	FALSE FALSE	TRUE TRUE	3.80 3.64	10.50 9.63	7.29 7.05	52% 52%	36% 38%	69% 73%		1.44 1.37	6.50 6.52	6.68 6.78									13,853 13,333	10,732 11,091					13,853 13,333	10,732 11,091	
5/19/2019	FALSE	TRUE	TRUE	4.44	10.22	7.75	57%	43%	76%		1.32	6.53	6.99									13,169	11,002					13,169	11,002	
5/20/2019	FALSE	TRUE	TRUE	4.15	10.06	7.34	57%	41%	73%		1.37	6.55	7.15 7.26									13,169	11,002					13,169	11,002	
5/21/2019 5/22/2019	FALSE FALSE	TRUE TRUE	TRUE FALSE	3.80 3.70	9.69 9.14	7.04 6.76	54% 55%	39% 40%	73% 74%		1.38 1.35	6.57 6.58	7.26	228.90	196.00	0.86		12,905	11,050			13,169 13,136	11,002 11,008		12,905	11,050		13,169 13,136	11,002 11,008	
5/23/2019	TRUE	TRUE	FALSE	3.62	9.06	6.63	55%	40%	73%		1.37	6.58	7.31	231.50	127.00	0.55		12,801	7,022			13,099	10,565		12,801	7,022		13,099	10,565	
5/24/2019 5/25/2019	TRUE TRUE	TRUE TRUE	FALSE TRUE	3.55 3.65	8.69 8.52	6.47 6.21	55% 59%	41% 43%	74% 73%		1.34 1.37	6.58 6.57	7.04 6.91									13,099 13,467	10,565 10,735					13,099 13,467	10,565 10,735	
5/26/2019	TRUE	TRUE	TRUE	4.14	11.08	8.00	52%	37%	72%		1.39	6.62	7.03									13,467	10,735					13,467	10,735	
5/27/2019	TRUE	TRUE	FALSE	4.24	9.77	7.47	57%	43%	76%		1.31	6.65	6.99									13,653	11,054					13,653	11,054	
5/28/2019 5/29/2019	TRUE TRUE	TRUE TRUE	FALSE FALSE	3.86 3.68	9.61 9.51	7.11 6.98	54% 53%	40% 39%	74% 73%		1.35 1.36	6.68 6.70	6.96 6.95									13,653 13,653	11,054 11,054					13,653 13,653	11,054 11,054	
5/30/2019	TRUE	TRUE	TRUE	3.72	9.17	6.93	54%	41%	76%		1.32	6.72	6.98	219.20	171.00	0.78		12,669	9,883			13,530	10,908		12,669	9,883		13,530	10,908	
5/31/2019	TRUE	TRUE	FALSE	3.61	8.81	6.55	55%	41%	74%		1.35	6.72	6.97									13,530	10,908					13,530	10,908	
6/1/2019 6/2/2019	TRUE TRUE	TRUE TRUE	FALSE TRUE	3.69 3.51	8.28 8.49	6.31 6.24	58% 56%	45% 41%	76% 73%		1.31 1.36	6.73 6.72	6.95 6.95									13,397 13,984	10,830 10,986					13,397 13,984	10,830 10,986	
6/3/2019	TRUE	TRUE	FALSE	3.57	8.56	6.37	56%	42%	74%		1.34	6.72	6.75									13,984	10,986					13,984	10,986	
6/4/2019	TRUE	TRUE	FALSE	3.51	8.72	6.19	57%	40%	71%		1.41	6.72	6.59	255.50	256.00	1.00		12.000	12.024			13,984	10,986		42.000	12.024		13,984	10,986	
6/5/2019 6/6/2019	TRUE TRUE	TRUE TRUE	FALSE FALSE	3.47 3.59	8.49 8.19	6.10 6.07	57% 59%	41% 44%	72% 74%		1.39 1.35	6.72 6.71	6.46 6.35	255.50 255.40	256.00 236.00	1.00 0.92		12,998 12,929	13,024 11,947			13,843 13,729	11,277 11,360		12,998 12,929	13,024 11,947		13,843 13,729	11,277 11,360	
6/7/2019	TRUE	TRUE	FALSE	3.26	7.70	5.84	56%	42%	76%		1.32	6.70	6.21					,	,			13,729	11,360		,	,		13,729	11,360	
6/8/2019 6/9/2019	TRUE TRUE	TRUE TRUE	FALSE FALSE	3.50 3.27	7.77 7.38	5.72 5.59	61% 58%	45% 44%	74% 76%		1.36 1.32	6.68	6.11 6.02									13,536	11,531 11,271					13,536	11,531 11,271	
6/10/2019	TRUE	TRUE	FALSE	3.41	7.36	5.79	59%	44%	75%		1.34	6.65 6.64	5.96									13,829 13,829	11,271					13,829 13,829	11,271	
6/11/2019	TRUE	TRUE	FALSE	3.45	8.03	5.78	60%	43%	72%		1.39	6.63	5.89									13,829	11,271					13,829	11,271	
6/12/2019 6/13/2019	TRUE TRUE	TRUE TRUE	FALSE FALSE	3.39 3.44	7.89 7.91	5.84 5.97	58% 58%	43% 43%	74% 75%		1.35 1.32	6.62 6.61	5.84 5.83	295.50	139.00	0.47		14,713	6,921			13,829 13,955	11,271 10,650		14,713	6,921		13,829 13,955	11,271 10,650	
6/14/2019	TRUE	TRUE	FALSE	3.49	7.66	5.88	59%	46%	77%		1.30	6.60	5.80	268.00	206.00	0.47		13,143	10,102			13,853	10,581		13,143	10,102		13,853	10,581	
6/15/2019	TRUE	TRUE	FALSE	3.55	7.76	5.77	62%	46%	74%		1.34	6.57	5.79									13,853	10,581					13,853	10,581	
6/16/2019 6/17/2019	TRUE TRUE	TRUE TRUE	FALSE FALSE	3.41 3.52	7.71 7.63	5.59 5.85	61% 60%	44% 46%	73% 77%		1.38 1.30	6.47 6.43	5.78 5.81									13,165 13,165	9,993 9,993					13,165 13,165	9,993 9,993	
6/18/2019	TRUE	TRUE	FALSE	3.58	7.92	5.85	61%	45%	74%		1.35	6.39	5.82									13,165	9,993					13,165	9,993	
6/19/2019	TRUE	TRUE	FALSE	3.42	7.87	5.86	58%	43%	74%		1.34	6.33	5.83	266.00	124.00	0.47		13,000	6,060			13,145	9,501		13,000	6,060		13,145	9,501	
6/20/2019 6/21/2019	TRUE TRUE	TRUE TRUE	FALSE FALSE	3.49 3.46	7.97 7.87	5.88 5.72	59% 60%	44% 44%	74% 73%		1.36 1.38	6.28 6.24	5.83 5.80	264.70	136.00	0.51		12,981	6,669			13,126 13,126	9,187 9,187		12,981	6,669		13,126 13,126	9,187 9,187	
6/22/2019	TRUE	TRUE	FALSE	3.44	7.51	5.59	62%	46%	74%		1.34	6.20	5.76									13,154	8,954					13,154	8,954	
6/23/2019	TRUE	TRUE	FALSE	3.61	7.84	5.69 5.70	63%	46%	73%		1.38	6.17	5.75									13,205	9,229					13,205	9,229	
6/24/2019 6/25/2019	TRUE TRUE	TRUE TRUE	FALSE FALSE	3.41 3.65	7.92 8.06	5.79 5.86	59% 62%	43% 45%	73% 73%		1.37 1.38	6.15 6.13	5.78 5.78									13,205 13,205	9,229 9,229					13,205 13,205	9,229 9,229	
6/26/2019	TRUE	TRUE	FALSE	3.36	8.26	5.89	57%	41%	71%		1.40	6.07	5.79	277.40				13,627				13,257	9,229		13,627			13,257	9,229	
6/27/2019	TRUE	TRUE	FALSE	3.51	7.90	5.90 5.91	59%	44%	75%		1.34	6.02	5.79 5.79	284.20	205.00	0.72		13,984	10,087			13,338	9,337		13,984	10,087		13,338	9,337	
6/28/2019 6/29/2019	TRUE TRUE	TRUE TRUE	FALSE FALSE	3.44 3.50	7.74 7.47	5.81 5.52	59% 63%	44% 47%	75% 74%		1.33 1.35	5.97 5.93	5.78 5.76									13,338 13,338	9,337 9,337					13,338 13,338	9,337 9,337	
6/30/2019	TRUE	TRUE	FALSE	3.46	7.50	5.56	62%	46%	74%		1.35	5.88	5.75									13,422	9,259					13,422	9,259	
7/1/2019 7/2/2019	TRUE TRUE	TRUE TRUE	FALSE FALSE	3.54 3.50	7.61 7.99	5.85 5.78	61% 61%	47% 44%	77% 72%		1.30 1.38	5.86 5.84	5.77 5.77									13,422 13,422	9,259 9,259					13,422 13,422	9,259 9,259	
7/3/2019	TRUE	TRUE	FALSE	3.37	7.61	5.72	59%	44%	75%		1.33	5.83	5.75	250.00				11,926				13,256	9,259		11,926			13,256	9,259	

											Diurnal				Influent		Influent										30-d Av	g 30-d Avg 30-d Avg
Date	Butte	CSU	Precip?	Min Influent	Max Influent	Avg Influent		Min % of		Flow Outlier	Peak		7-d Avg of Avg Flow,		BOD	BOD/TSS	NH3-N	Avg Inf TSS Load,	Avg Inf BOD Load, NI			of TSS				non-SN n BOD Load, NH	on-SN of non-S	N of non-SN of non-SN
	Break?	Break?		Flow, mg	d Flow, mg	d Flow, mgd	Avg	Max	Max	Type	Factor (DPF)	Flow, mgd	mgd	mg/L	Conc., mg/L	Ratio	Conc., mg/L	ppd	ppd	ppd Ty	pe Lo	oad, ppd	Load, ppd	Load, ppd	ppd	ppd	ppd ppd	, BOD Load, NH3-N ppd Load, ppd
7/4/2019	TRUE	TRUE	FALSE	3.49	7.33	5.32	66%	48%	73%		1.38	5.79	5.68									13,256	9,259				13,256	·
7/5/2019 7/6/2019	TRUE TRUE	TRUE TRUE	FALSE FALSE	3.41 3.45	7.12 7.18	5.23 5.40	65% 64%	48% 48%	73% 75%		1.36 1.33	5.76 5.74	5.60 5.55	233.00	231.00	0.99		10,163	10,076			12,946 12,941	9,361 8,838		10,163	10,076	12,946 12,941	9,361 8,838
7/7/2019	TRUE	TRUE	FALSE	3.37	7.34	5.53	61%	46%	75%		1.33	5.72	5.55									12,942	8,319				12,942	·
7/8/2019 7/9/2019	TRUE TRUE	TRUE TRUE	FALSE FALSE	3.38 3.47	7.66 8.03	5.86 5.84	58% 59%	44% 43%	77% 73%		1.31 1.38	5.72 5.73	5.59 5.59									12,942	8,319 8,319				12,942 12,942	8,319 8,319
7/10/2019	TRUE	TRUE	FALSE	3.48	8.03	5.80	60%	43%	72%		1.38	5.73	5.59									12,942 12,942	8,319				12,942	
7/11/2019	TRUE	TRUE	FALSE	3.63	8.04	5.83	62%	45%	73%		1.38	5.73	5.60	284.50	266.00	0.93		13,833	12,934			13,041	8,978		13,833	12,934	13,041	
7/12/2019 7/13/2019	TRUE TRUE	TRUE TRUE	FALSE FALSE	3.47 3.54	7.77 7.23	5.76 5.51	60% 64%	45% 49%	74% 76%		1.35 1.31	5.73 5.72	5.66 5.69	247.40	304.00	1.23		11,885	14,604			12,925 12,925	9,682 9,682		11,885	14,604	12,925 12,925	9,682 9,682
7/14/2019	TRUE	TRUE	FALSE	3.45	7.08	5.48	63%	49%	77%		1.29	5.71	5.70									12,727	10,076				12,727	
7/15/2019	TRUE	TRUE	FALSE	3.61	7.78	5.73	63%	46%	74%		1.36	5.70	5.73									12,675	10,072				12,675	10,072
7/16/2019 7/17/2019	TRUE TRUE	TRUE TRUE	FALSE FALSE	3.61 3.72	7.65 7.60	5.72 5.73	63% 65%	47% 49%	75% 75%		1.34 1.33	5.70 5.71	5.71 5.70	266.80	209.00	0.78		12,750	9,988			12,675 12,683	10,072 10,060		12,750	9,988	12,675 12,683	10,072 10,060
7/18/2019	TRUE	TRUE	FALSE	3.65	7.68	5.79	63%	48%	75%		1.33	5.70	5.69									12,683	10,060				12,683	10,060
7/19/2019 7/20/2019	TRUE TRUE	TRUE TRUE	FALSE FALSE	3.53 3.62	7.59 7.29	5.80 5.60	61% 65%	47% 50%	76% 77%		1.31 1.30	5.70 5.69	5.69 5.67	260.30	259.00	1.00		12,591	12,528			12,674 12,638	10,368 10,984		12,591	12,528	12,674 12,638	
7/21/2019	TRUE	TRUE	FALSE	3.50	7.11	5.54	63%	49%	78%		1.28	5.68	5.67									12,595	11,703				12,595	11,703
7/22/2019	TRUE	TRUE	FALSE	3.50	7.68	5.76	61%	46%	75%		1.33	5.68	5.71									12,595	11,703				12,595	
7/23/2019 7/24/2019	TRUE TRUE	TRUE TRUE	FALSE FALSE	3.68 3.54	7.89 7.52	5.77 5.65	64% 63%	47% 47%	73% 75%		1.37 1.33	5.69 5.69	5.71 5.71	262.50	258.00	0.98		12,369	12,157			12,595 12,570	11,703 11,768		12,369	12,157	12,595 12,570	
7/25/2019	TRUE	TRUE	FALSE	3.60	7.62	5.77	62%	47%	76%		1.32	5.69	5.71			5.05		,				12,570	11,768		,		12,570	11,768
7/26/2019 7/27/2019	TRUE TRUE	TRUE TRUE	FALSE FALSE	3.56 3.56	7.69 7.19	5.71 5.50	62% 65%	46% 50%	74% 76%		1.35 1.31	5.68 5.67	5.70 5.66									12,570 12,438	11,768 11,768				12,570 12,438	
7/28/2019	TRUE	TRUE	FALSE	3.47	6.92	5.40	64%	50%	78%		1.28	5.65	5.64									12,438	12,048				12,438	·
7/29/2019	TRUE	TRUE	FALSE	3.53	7.51	5.74	61%	47%	76%		1.31	5.65	5.66									12,217	12,048				12,217	
7/30/2019 7/31/2019	TRUE TRUE	TRUE TRUE	FALSE FALSE	3.55 3.63	7.73 7.79	5.76 5.73	62% 63%	46% 47%	75% 74%		1.34 1.36	5.66 5.66	5.66 5.66									12,217 12,217	12,048 12,048				12,217 12,217	
8/1/2019	TRUE	TRUE	FALSE	3.63	7.55	5.77	63%	48%	76%		1.31	5.66	5.67	182.00	323.00	1.77		8,758	15,543			11,784	12,547		8,758	15,543	11,784	12,547
8/2/2019	TRUE	TRUE	FALSE	3.53	7.70	5.72	62%	46%	74%		1.35	5.66	5.67	569.60	380.00	0.67		27,173	18,128			13,494	13,245		27,173	18,128	13,494	13,245
8/3/2019 8/4/2019	TRUE TRUE	TRUE TRUE	FALSE FALSE	3.48 3.46	7.12 7.21	5.44 5.57	64% 62%	49% 48%	76% 77%		1.31 1.29	5.65 5.66	5.63 5.64									13,690 13,690	13,245 13,245				13,690 13,690	13,245 13,245
8/5/2019	TRUE	TRUE	FALSE	3.57	7.64	5.80	62%	47%	76%		1.32	5.68	5.69									14,194	13,697				14,194	·
8/6/2019	TRUE TRUE	TRUE TRUE	FALSE FALSE	3.54	7.98	5.74 5.78	62%	44% 45%	72% 74%		1.39	5.69 5.70	5.69 5.69	126.60	403.00	3.18		6,103	10 427			14,194	13,697		6,103	10 427	14,194	13,697
8/7/2019 8/8/2019	TRUE	TRUE	FALSE	3.53 3.57	7.76 7.84	5.76	61% 61%	45%	75%		1.34 1.34	5.70	5.71	268.00	366.00	1.37		13,120	19,427 17,918			13,183 13,176	14,414 14,803		13,120	19,427 17,918	13,183 13,176	·
8/9/2019	TRUE	TRUE	FALSE	3.54	7.51	5.52	64%	47%	74%		1.36	5.69	5.68									13,176	14,803				13,176	
8/10/2019 8/11/2019	TRUE TRUE	TRUE TRUE	FALSE FALSE	3.43 3.43	7.31 7.23	5.67 5.61	60% 61%	47% 47%	78% 78%		1.29 1.29	5.68 5.68	5.67 5.70									13,176 13,094	14,803 15,037				13,176 13,094	·
8/12/2019	TRUE	TRUE	FALSE	3.56	7.40	5.82	61%	48%	79%		1.27	5.68	5.73									13,266	15,098				13,266	·
8/13/2019	TRUE	TRUE	FALSE	3.58	8.00	5.91	61%	45%	74%		1.35	5.69	5.74	C20 00	100.00	0.20		21 (20	0.505			13,266	15,098		21.620	0.505	13,266	
8/14/2019 8/15/2019	TRUE TRUE	TRUE TRUE	FALSE FALSE	3.46 3.57	8.23 8.89	6.03 6.03	57% 59%	42% 40%	73% 68%		1.36 1.47	5.71 5.72	5.78 5.81	628.90 295.80	189.00 240.00	0.30 0.81		31,628 14,876	9,505 12,070			15,561 15,485	14,399 14,140		31,628 14,876	9,505 12,070	15,561 15,485	
8/16/2019	TRUE	TRUE	FALSE	3.51	8.01	5.86	60%	44%	73%		1.37	5.72	5.81									15,485	14,140				15,485	14,140
8/17/2019 8/18/2019	TRUE TRUE	TRUE TRUE	FALSE FALSE	3.40 3.28	7.80 8.22	5.78 5.88	59% 56%	44% 40%	74% 72%		1.35 1.40	5.72 5.73	5.84 5.87									15,827 15,827	14,659 14,659				15,827 15,827	
8/19/2019	TRUE	TRUE	FALSE	3.34	11.04	6.20	54%	30%	56%	AvgMax	1.78	5.72	5.90									16,289	14,964				16,289	
8/20/2019	TRUE	TRUE	FALSE	3.40	8.35	6.13	55%	41%	73%		1.36	5.74	5.95									16,289	14,964				16,289	
8/21/2019 8/22/2019	TRUE TRUE	TRUE TRUE	FALSE FALSE	3.53 3.40	8.62 8.89	6.29 6.18	56% 55%	41% 38%	73% 70%		1.37 1.44	5.77 5.78	6.00 6.02	322.20 317.20	214.00 231.00	0.66 0.73		16,902 16,349	11,226 11,906			16,366 16,364	14,497 14,209		16,902 16,349	11,226 11,906	16,366 16,364	
8/23/2019	TRUE	TRUE	FALSE	3.56	8.65	6.19	58%	41%	72%		1.40	5.80	6.04	317.20	_51.00	0.75		20,343	,500			16,364	14,209		_0,5.45	,500	16,364	
8/24/2019	TRUE	TRUE	FALSE	3.35	8.62	6.05	55%	39%	70%		1.42	5.81	6.07									16,864	14,465				16,864	
8/25/2019 8/26/2019	TRUE TRUE	TRUE TRUE	FALSE FALSE	3.30 3.37	8.75 9.01	6.15 6.23	54% 54%	38% 37%	70% 69%		1.42 1.45	5.82 5.84	6.12 6.17									16,864 16,864	14,465 14,465				16,864 16,864	
8/27/2019	FALSE	TRUE	FALSE	3.48	9.08	6.24	56%	38%	69%		1.46	5.86	6.18									16,864	14,465				16,864	14,465
8/28/2019	FALSE	FALSE	FALSE	3.28	9.09	6.26	52% 54%	36% 38%	69% 70%		1.45	5.89 5.01	6.20 6.21	299.50	157.00	0.52		15,836	Q 201			16,864	14,465		15,836	Q 201	16,864	14,465 13,780
8/29/2019 8/30/2019	FALSE FALSE	FALSE FALSE	FALSE FALSE	3.45 3.50	9.12 8.83	6.34 6.23	54% 56%	38% 40%	70% 71%		1.44 1.42	5.91 5.93	6.21	233.30	137.00	0.52		13,630	8,301			16,749 16,749	13,780 13,780		13,030	8,301	16,749 16,749	
8/31/2019	FALSE	FALSE	FALSE	3.46	8.49	5.92	58%	41%	70%		1.43	5.93	6.18									16,749	13,780				16,749	13,780
9/1/2019 9/2/2019	FALSE FALSE	FALSE FALSE	FALSE FALSE	3.32 3.37	8.16 8.94	5.69 6.11	58% 55%	41% 38%	70% 68%		1.43 1.46	5.93 5.94	6.13 6.13									17,748 16,402	13,560 12,908				17,748 16,402	
9/3/2019	FALSE	FALSE	FALSE	3.35	9.17	6.30	53%	37%	69%		1.46	5.97	6.14									16,402	12,908				16,402	12,908
9/4/2019	FALSE	FALSE	TRUE	3.55	9.09	6.38	56%	39%	70%		1.42	6.00	6.15	333.20	246.00	0.74		17,729	13,089			16,568	12,930		17,729	13,089	16,568	

Part											Diurnal				Influent		Influent								30-d Ava-	30-d Avg - 20	0-d Avg
1. 1. 1. 1. 1. 1. 1. 1.	Date			Precip?				Min % of	Min % of																of non-SN	of non-SN of	non-SN
	Dute	Break?	Break?	riccip.				Avg	Max	Max						Ratio											
	9/5/2019	FALSE	FALSE	FALSE	3.46	9.35	6.26	55%	37%	67%	1.49	6.02	6.15	289.00	144.00	0.50		15,088	7,518		16,403	12,329	15,088	7,518	16,403	12,329	
Property																					-	•				•	
1																											
Section Sect																											
Part														276.00	280 00	1.05		1/1 3/10	15.016		•	•	1/1 3/10	15.016	•	•	
Second S																		· · ·									
Marche M																											
																					•	•			•	•	
Symbol S																											
State Stat			FALSE		3.40	8.90	6.30	54%		71%	1.41	6.19									15,308	11,992			15,308		
1.600 1.60																		•	•		•	•	,	•		•	
Post														230.00	187.00	0.73		13,344	9,901				13,344	9,961			
1,000 1,00	9/21/2019	FALSE	FALSE					55%	40%	73%			6.27								•	•			•	•	
PAT-PATE PATE PAT																					•	•			•	•	
1.500 1.50																											
																					-	•				•	
9.79/2019 FALS FALS														273.90	269.00	0.98		14,323	14,066			•	14,323	14,066		•	
101/7/2019 14.34																					•					•	
100/2009 FALE FAL																					•	•				•	
100/10799 14.58														217.60	246.00	0.77		16 740	12.066				16 740	12.066			
10/2019 FALSE FALSE ASS SAS SAS SAS SAS SAS SAS SAS SAS S																		•	•		•	•	,	•		•	
100/2009 FALSE FALSE FALSE 138 834 6.5 5.5 15.0 376 6.66 13.905 13.89 13.905 13.		FALSE	FALSE	FALSE	3.48	9.02	6.29	55%		70%	1.43	6.27									14,462	13,054			14,462	13,054	
100/2019 FALSE FALSE FALSE FALSE SALS																											
19/8/2019 FAISE FAISE FAISE 13.98 9.28 6.21 51% 37% 67% 1.49 6.27 6.27 6.26 26.53 28.500 1.10 13.274 14.557 13.862 13.242 13.242 1																					•	•			•	•	
101/12/019 FAISE																											
101/17/019 FALSE FALSE FALSE 3.30 8.85 6.15 540k 37% 69% 1.44 6.26 6.24 13,867 14,342 13,867 14,245 13,871 101/17/019 FALSE FALSE FALSE 3.35 8.86 6.15 53% 36% 67% 1.49 6.25 6.25 1.29 1.20																											
101/12/019 FALSE FALSE FALSE SAS 8.86 6.11 55% 38% 69% 1.45 6.26 6.21 1.42														2/1.00	336.00	1.24		14,148	17,542		•	•	14,148	17,542		•	
10/14/2019 FALSE																											
10/15/2019 FALSE FALSE FALSE TRUE 3.29 9.11 6.16 53% 36% 68% 1.48 6.26 6.21 3.274.50 3.22.00 1.77 14.400 16.892 14.238 14.258 14.400 16.892 14.238 14.258 14.400 16.892 14.238 14.258 14.400 16.892 14.238 14.258 14.400 16.892 14.238 14.258 14.400 16.892 14.238 14.258 14.400 16.892 14.238 14.258 14.400 16.892 14.238 14.258 14.400 16.892 14.238 14.258 14.400 16.892 14.238 14.258 14.400 16.892 14.238 14.258 14.400 16.892 14.238 14.258 14.400 16.892 14.238 14.258 14.400 16.892 14.238 14.258 14.400 16.892 14.238 14.258 14.400 16.892 14.238 14.258 14.400 16.892 14.238 14.258 14.400 16.892 14.258 14.400 16.892 14.258 14.258 14.400 16.892 14.258 14.2																											
10/16/2019 FALSE																											
10/18/2019 FALSE														274.50	322.00	1.17		14,400	16,892				14,400	16,892			
10/19/2019 FALSE FALSE FALSE FALSE FALSE FALSE S.27 8.87 6.20 53% 37% 70% 1.42 6.25 6.22 14,639 15,852 14,639 14,668 14,668 15,852 14,639 14,668	10/17/2019						6.31			69%		6.26		307.00	366.00	1.19		16,156	19,261				16,156	19,261	14,451		
10/20/2019 FALSE FALSE FALSE ALSE 3.27 8.87 6.20 53% 37% 70% 1.43 6.24 6.23 10/21/2019 FALSE FALSE FALSE ALSE 3.23 8.69 6.25 5.2% 3.5% 6.8% 1.48 6.24 6.23 10/22/2019 FALSE SALSE SA																											
10/21/2019 FALSE FALSE ALSE ALSE ALSE ALSE ALSE ALSE ALSE																											
10/23/2019 FALSE FALSE FALSE SA45 8.93 6.27 55% 39% 70% 1.42 6.25 6.24 122.00 6.380 14,905 14,688 14,881 14,481 14,723 12,889 14,848 14,481 14,723 12,889 14,848 14,481 14,723 12,889 14,848 14,481 14,723 12,889 14,848 14,481 14,723 12,889 14,481 14,723 12,889 14,481 14,723 12,889 14,481 14,723 12,889 14,481 14,723 12,889 14,481 14,723 12,889 14,481 14,723 12,889 14,481 14,723 12,889 14,481 14,723 12,889 14,481 14,723 12,889 14,481 14,481 14,723 12,889 14,481 14,481 14,723 14,891 14,481 14,723 14,891 14,481 14,723 14,891 14,481 14,723 14,891 14,481 14,723 14,891 14,481 14,723 14,891 14,481 14,723 14,891 14,481 14,4	10/21/2019	FALSE	FALSE	FALSE	3.23	8.69	6.25	52%	37%	72%	1.39	6.24	6.24								14,639	15,852			14,639	15,852	
10/24/2019 FALSE FALSE FALSE SALE														323.20	122.00			16,766	6 290				16,443	6 200			
10/25/2019 FALSE FALSE FALSE FALSE FALSE S.14 9.07 6.19 56% 38% 68% 1.47 6.24 6.23 14,881 14,881 14,881 14,881 14,481 14,88														281.10		0.88		14,723					14,723				
10/27/2019 FALSE FALSE FALSE FALSE ALSE ALSE FALSE ALSE ALSE FALSE FALSE FALSE ALSE ALSE ALSE FALSE FALSE FALSE ALSE ALSE ALSE FALSE FALSE ALSE ALSE ALSE ALSE ALSE ALSE ALSE	10/25/2019			FALSE														,	,				,	,			
10/28/2019 FALSE F																											
10/29/2019 FALSE FALSE FALSE FALSE FALSE FALSE S3.31 9.05 6.36 52% 37% 70% 1.42 6.25 6.28 14,914 14,533 10/30/2019 FALSE S3.28 9.07 6.43 51% 36% 71% 1.41 6.26 6.30 274.50 227.00 0.83 14,720 12,173 14,929 14,271 14,720 12,173 14,893 14,271 10/31/2019 FALSE FA																											
10/30/2019 FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE 14,929 14,271 14,720 12,173 14,893 14,271 10/31/2019 FALSE FALSE FALSE FALSE SAS 9.07 6.26 54% 37% 69% 1.45 6.26 6.30 308.60 274.50 227.00 0.83 14,720 12,173 14,720 12,173 14,893 14,271 10/31/2019 FALSE FALSE FALSE FALSE SAS 9.07 6.26 54% 37% 69% 1.45 6.26 6.30 308.60 217.00 0.70 16,112 11,329 16,112 11,329 15,015 13,977 11/2/2019 FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE 14,893 14,271 14,720 12,173 14,271 14,271 14,271 14,271 14,271 14,271 14,271 14,271 14,271 14,271 14,271 12,173 14,271 12,173 14,271 14,271																											
11/1/2019 FALSE FALSE FALSE FALSE SALSE FALSE SALSE	10/30/2019																						•				
11/2/2019 FALSE FALSE FALSE FALSE SALSE FALSE 14,089 11/3/2019 FALSE FALSE FALSE FALSE SALSE														308.60	217.00	0.70		16,112	11,329				16,112	11,329			
11/3/2019 FALSE FALSE FALSE FALSE 54.58 9.19 6.34 52% 36% 69% 1.45 6.25 6.32 11/4/2019 FALSE FALSE FALSE FALSE FALSE 51.937 13,903 14,997 13,903 11/5/2019 FALSE FALSE FALSE FALSE FALSE 53.32 9.24 6.24 53% 36% 68% 1.48 6.26 6.31																											
11/5/2019 FALSE FALSE FALSE 3.32 9.24 6.24 53% 36% 68% 1.48 6.26 6.31 15,037 13,903 14,997 13,903	11/3/2019	FALSE	FALSE	FALSE	3.29				36%				6.32												14,997	13,903	
11/6/2019 FALSE FALSE FALSE 3.36 9.22 6.36 53% 36% 69% 1.45 6.27 6.31 15,037 13,903 14,997 13,903	11/5/2019			FALSE																							

											Diurnal				Influent		Influent											30-d Avg	30-d Avg 30-d Avg
Date	Butte Break?	CSU	Precip?	Min Influent	Max Influent	Avg Influent		Min % of		Flow Outlier	Peak	30-d Avg of Avg		Influent TSS Conc.,	BOD	BOD/TSS	NH3-N	Avg Inf TSS Load,	Avg Inf BOD Load,	Avg Inf NH3 Load,	Load Outlier	30-d Avg of TSS	30-d Avg 3	_		non-SN BOD Load,	non-SN NH3 Load.	of non-SN	of non-SN of non-SN
	DIEdK!	Break?		Flow, mgd	d Flow, mgd	Flow, mgd	Avg	Max	Max	Туре	Factor (DPF)	Flow, mgd	mgd	mg/L	Conc., mg/L	Ratio	Conc., mg/L	ppd	ppd	ppd	Туре	Load, ppd	Load, ppd L	oad, ppd	ppd	ppd	ppd	ppd	BOD Load, NH3-N ppd Load, ppd
11/7/2019	FALSE	FALSE	FALSE	3.38	9.14	6.40	53%	37%	70%		1.43	6.27	6.31									15,037	13,903					14,997	13,903
11/8/2019 11/9/2019	FALSE FALSE	FALSE FALSE	FALSE FALSE	3.41 3.39	9.00 8.98	6.35 6.17	54% 55%	38% 38%	71% 69%		1.42 1.46	6.27 6.27	6.32 6.30	260.10	295.00	1.13		13,775	15,623			14,897 15,100	14,094 14,024		13,775	15,623		14,861 15,060	14,094 14,024
11/10/2019	FALSE	FALSE	FALSE	3.30	8.67	6.00	55%	38%	69%		1.45	6.26	6.27									15,236	13,521					15,190	13,521
11/11/2019	FALSE	FALSE	FALSE	3.35	9.31	6.40	52%	36%	69%		1.45	6.27	6.28									15,236	13,521					15,190	13,521
11/12/2019 11/13/2019	FALSE FALSE	FALSE FALSE	FALSE FALSE	3.36 3.37	9.19 9.32	6.36 6.36	53% 53%	37% 36%	69% 68%		1.44 1.47	6.27 6.28	6.29 6.30	272.10	296.00	1.09		14,433	15,701			15,236 15,135	13,521 13,793		14,433	15,701		15,190 15,095	13,521 13,793
11/13/2019	FALSE	FALSE	FALSE	3.40	9.24	6.37	53%	37%	69%		1.47	6.28	6.30	272.10	362.00	1.30		14,790	19,232			15,133	14,398		14,790	19,232		15,061	14,398
11/15/2019	FALSE	FALSE	FALSE	3.33	8.92	6.36	52%	37%	71%		1.40	6.29	6.30									15,097	14,398					15,061	14,398
11/16/2019	FALSE	FALSE	FALSE	3.43	9.50	6.36	54%	36%	67%		1.49	6.29	6.30									15,184	14,086					15,144	14,086
11/17/2019 11/18/2019	FALSE FALSE	FALSE FALSE	FALSE FALSE	3.32 3.35	9.31 9.17	6.38 6.38	52% 53%	36% 37%	69% 70%		1.46 1.44	6.29 6.30	6.32 6.37									15,045 15,045	13,347 13,347					14,999 14,999	13,347 13,347
11/19/2019	FALSE	FALSE	FALSE	3.37	9.14	6.34	53%	37%	69%		1.44	6.30	6.36									15,045	13,347					14,999	13,347
11/20/2019	FALSE	FALSE	FALSE	3.35	9.20	6.29	53%	36%	68%		1.46	6.31	6.36									15,045	13,347					14,999	13,347
11/21/2019 11/22/2019	TRUE TRUE	FALSE TRUE	FALSE FALSE	3.38 3.39	9.17 8.86	6.38 6.22	53% 55%	37% 38%	70% 70%		1.44 1.42	6.31 6.31	6.36 6.34	286.60 241.10	260.00	1.08		15,250 12,507	13,487			15,071 14,539	13,347 13,364		15,250 12,507	13,487		15,031 14,539	13,347 13,364
11/23/2019	TRUE	TRUE	FALSE	3.20	8.27	6.04	53%	39%	73%		1.42	6.30	6.30	241.10	200.00	1.00		12,307	13,467			14,539	14,362		12,307	13,467		14,539	14,362
11/24/2019	TRUE	TRUE	FALSE	3.27	8.03	5.85	56%	41%	73%		1.37	6.29	6.24									14,512	14,591					14,512	14,591
11/25/2019	TRUE	TRUE	FALSE	3.31	8.17	5.98	55%	41%	73%		1.37	6.28	6.19									14,512	14,591					14,512	14,591
11/26/2019 11/27/2019	TRUE TRUE	TRUE TRUE	TRUE FALSE	3.33 3.54	9.07 8.85	6.26 6.39	53% 55%	37% 40%	69% 72%		1.45 1.38	6.28 6.29	6.17 6.18	307.30	360.00	1.17		16,377	19,185			14,512 14,745	14,591 15,247		16,377	19,185		14,512 14,745	14,591 15,247
11/28/2019	TRUE	TRUE	TRUE	3.34	8.31	5.79	58%	40%	70%		1.44	6.27	6.11	307.30	300.00	1.17		10,377	13,103			14,745	15,247		10,577	13,103		14,745	15,247
11/29/2019	TRUE	TRUE	FALSE	3.31	7.45	5.53	60%	44%	74%		1.35	6.24	6.01									14,745	15,247					14,745	15,247
11/30/2019	TRUE	TRUE	TRUE	3.34	8.06	5.93	56%	41%	74%		1.36	6.22	5.97									14,749	15,760					14,749	15,760
12/1/2019 12/2/2019	TRUE TRUE	TRUE TRUE	TRUE TRUE	4.14 6.54	11.67 12.70	7.76 10.30	53% 63%	35% 51%	66% 81%		1.50 1.23	6.27 6.40	6.19 6.74									14,522 14,522	16,646 16,646					14,522 14,522	16,646 16,646
12/3/2019	FALSE	FALSE	FALSE	5.61	11.46	8.48	66%	49%	74%		1.35	6.47	7.06									14,522	16,646					14,522	16,646
12/4/2019	FALSE	FALSE	TRUE	4.46	10.78	7.57	59%	41%	70%		1.42	6.51	7.22	197.80	368.00	1.86		12,488	23,233			14,231	17,744		12,488	23,233		14,231	17,744
12/5/2019	FALSE	FALSE	TRUE	4.10	10.04	7.26	56%	41%	72%		1.38	6.54	7.33	220.00	362.00	1.65		13,321	21,919			14,117	18,340		13,321	21,919		14,117	18,340
12/6/2019 12/7/2019	FALSE FALSE	FALSE FALSE	TRUE TRUE	3.99 4.24	9.85 10.17	7.04 7.53	57% 56%	41% 42%	71% 74%		1.40 1.35	6.57 6.61	7.48 7.73									14,117 14,117	18,340 18,340					14,117 14,117	18,340 18,340
12/8/2019	FALSE	FALSE	TRUE	4.15	10.37	7.48	55%	40%	72%		1.39	6.64	7.93									14,117	18,340					14,117	18,340
12/9/2019	FALSE	FALSE	FALSE	3.98	10.07	7.14	56%	40%	71%		1.41	6.67	7.85									14,166	18,793					14,166	18,793
12/10/2019	FALSE FALSE	FALSE FALSE	TRUE TRUE	3.81 3.91	9.84 10.72	6.98 7.26	55% 54%	39% 36%	71% 68%		1.41 1.48	6.69 6.73	7.44 7.28	245.60	301.00	1.23		14,871	18,225			14,166 14,254	18,793 18,712		14,871	18,225		14,166 14,254	18,793 18,712
12/11/2019 12/12/2019	FALSE	FALSE	TRUE	4.98	10.72	8.19	61%	46%	76%		1.46	6.79	7.26	239.80	297.00	1.23		16,379	20,286			14,254	18,909		16,379	20,286		14,491	18,909
12/13/2019	FALSE	FALSE	TRUE	4.41	10.23	7.57	58%	43%	74%		1.35	6.83	7.40					,	,			14,491	18,909			· ·		14,491	18,909
12/14/2019	FALSE	FALSE	TRUE	3.88	10.00	7.32	53%	39%	73%		1.37	6.86	7.43									14,498	19,367					14,498	19,367
12/15/2019 12/16/2019	FALSE FALSE	TRUE TRUE	FALSE FALSE	3.93 3.77	10.37 10.02	7.32 7.10	54% 53%	38% 38%	71% 71%		1.42 1.41	6.89 6.92	7.41 7.36									14,456 14,456	19,389 19,389					14,456 14,456	19,389 19,389
12/17/2019	FALSE	TRUE	FALSE	3.60	9.83	6.99	52%	37%	71%		1.41	6.94	7.34									14,456	19,389					14,456	19,389
12/18/2019	FALSE	TRUE	TRUE	3.49	9.71	7.07	49%	36%	73%		1.37	6.96	7.35	255.60	198.00	0.77		15,071	11,675			14,533	18,287		14,805	11,564		14,500	18,271
12/19/2019	TRUE	TRUE	TRUE	3.97	9.65	7.36	54%	41%	76%		1.31	6.99	7.37									14,533	18,287					14,500	18,271
12/20/2019 12/21/2019	TRUE TRUE	TRUE TRUE	FALSE TRUE	3.93 3.69	9.41 9.20	7.10 6.68	55% 55%	42% 40%	75% 73%		1.33 1.38	7.02 7.03	7.23 7.12									14,533 14,533	18,287 18,287					14,500 14,500	18,271 18,271
12/22/2019	TRUE	TRUE	TRUE	3.51	10.09	7.00	50%	35%	69%		1.44	7.05	7.08									14,431	18,287					14,392	18,271
12/23/2019	TRUE	TRUE	FALSE	4.56	9.98	7.53	61%	46%	75%		1.33	7.09	7.10									14,751	19,087					14,707	19,069
12/24/2019	TRUE	TRUE	FALSE	4.11	9.16	7.01	59%	45%	77%		1.31	7.12	7.09									14,751	19,087					14,707	19,069
12/25/2019 12/26/2019	TRUE TRUE	TRUE TRUE	TRUE FALSE	3.70 3.48	7.81 8.42	5.89 6.15	63% 57%	47% 41%	75% 73%		1.33 1.37	7.12 7.13	6.96 6.84									14,751 14,751	19,087 19,087					14,707 14,707	19,069 19,069
12/27/2019	TRUE	TRUE	FALSE	3.51	8.24	6.29	56%	43%	76%		1.31	7.13	6.71									14,751	19,087					14,707	19,069
12/28/2019	TRUE	TRUE	FALSE	3.47	8.23	6.13	57%	42%	74%		1.34	7.12	6.59	268.30	243.00	0.91		13,717	12,423			14,308	17,960		13,717	12,423		14,263	17,942
12/29/2019	TRUE	TRUE	TRUE	3.30	8.29	6.02	55%	40%	73%		1.38	7.13	6.50									14,308	17,960					14,263	17,942
12/30/2019 12/31/2019	TRUE TRUE	TRUE TRUE	TRUE FALSE	3.43 3.45	8.34 8.43	6.23 6.20	55% 56%	41% 41%	75% 74%		1.34 1.36	7.15 7.16	6.41 6.24									14,308 14,308	17,960 17,960					14,263 14,263	17,942 17,942
1/1/2020	TRUE	TRUE	FALSE	3.49	7.91	5.76	61%	44%	73%		1.37	7.095161	6.08									14,308	17,960					14,263	17,942
1/2/2020	TRUE	TRUE	FALSE	3.26	8.40	5.97	55%	39%	71%		1.41	6.955484	6.09									14,308	17,960					14,263	17,942
1/3/2020	TRUE	TRUE	FALSE	3.41	8.48	6.01	57%	40%	71%		1.41	6.875806	6.08	294.60	208.00	0.71		14,766	10,426			14,373	16,884		14,766	10,426		14,335	16,868
1/4/2020 1/5/2020	TRUE TRUE	TRUE TRUE	TRUE FALSE	3.37 3.28	8.30 8.37	5.99 5.96	56% 55%	41% 39%	72% 71%		1.39 1.40	6.824839 6.782903	6.04 6.02									14,687 14,961	15,826 14,607					14,643 14,908	15,807 14,585
1/6/2020	TRUE	TRUE	FALSE	3.25	8.71	6.07	54%	37%	70%		1.43	6.751613	6.02									14,961	14,607					14,908	14,585
1/7/2020	TRUE	TRUE	FALSE	3.36	8.79	6.09	55%	38%	69%		1.44	6.705161	6.01									14,961	14,607					14,908	14,585
1/8/2020	TRUE	TRUE	FALSE	3.32	8.66	6.10	54%	38%	70%		1.42	6.660645	5.99									14,961	14,607					14,908	14,585

											Diurnal				Influent		Influent											20 d Ava	20 d Avg 2	O d Ava
Date	Butte	CSU	Precip?	Min Influent	Max Influent	Avg Influent	Min % of	Min % of	Avg % of	Flow Outlier	Diurnal Peak		7-d Avg of	Influent TSS Conc.,	Influent BOD	BOD/TSS	Influent NH3-N	Avg Inf TSS Load.	Avg Inf BOD Load,	Avg Inf NH3 Load.	Load Outlier	30-d Avg of TSS				non-SN BOD Load,	non-SN		30-d Avg 30 of non-SN of	
Bute	Break?	Break?	т тестр.		d Flow, mgd		Avg	Max	Max	Туре	Factor (DPF)	Flow, mgd		mg/L	Conc., mg/L	Ratio	Conc., mg/L	ppd	ppd	ppd	Туре			Load, ppd		ppd	ppd T	rss Load, ppd		NH3-N pad, ppd
1/9/2020	TRUE	TRUE	TRUE	3.41	8.64	6.21	55%	39%	72%		1.39	6.630645	6.05									14,961	14,607					14,908	14,585	
1/10/2020 1/11/2020	TRUE TRUE	TRUE TRUE	FALSE FALSE	3.35 3.39	8.53 8.06	6.14 6.04	55% 56%	39% 42%	72% 75%		1.39 1.33	6.603548 6.564194	6.07 6.08	180.80	424.00	2.35		9,108	21,358			14,961 13,808	14,607 15,234		9,108	21,358		14,908 13,755	14,585 15,212	
1/11/2020	TRUE	TRUE	FALSE	3.23	8.84	6.03	54%	37%	68%		1.33	6.494516	6.08	180.80	424.00	2.33		9,106	21,336			13,165	13,234		9,108	21,336		13,099	13,943	
1/13/2020	TRUE	TRUE	FALSE	3.24	8.70	6.03	54%	37%	69%		1.44	6.444839	6.09									13,165	13,971					13,099	13,943	
1/14/2020 1/15/2020	TRUE TRUE	TRUE TRUE	FALSE FALSE	3.22 3.28	8.79 8.70	5.99 6.17	54% 53%	37% 38%	68% 71%		1.47 1.41	6.401935 6.364839	6.08 6.09	383.50	327.00	0.85		19,734	16,827			13,165 14,479	13,971 14,542		19,734	16,827		13,099 14,426	13,943 14,520	
1/16/2020	TRUE	TRUE	TRUE	3.34	8.76	6.35	53%	38%	72%		1.38	6.340645	6.12	361.00	330.00	0.91		19,118	17,476			15,252	15,031		19,118	17,476		15,208	15,012	
1/17/2020	TRUE	TRUE	FALSE	3.39	8.66	6.31	54%	39%	73%		1.37	6.31871	6.13									15,252	15,031					15,208	15,012	
1/18/2020 1/19/2020	TRUE TRUE	TRUE TRUE	FALSE FALSE	3.31 3.24	8.30 8.63	6.16 6.12	54% 53%	40% 38%	74% 71%		1.35 1.41	6.289355 6.249355	6.14 6.15									15,289 15,289	15,702 15,702					15,289 15,289	15,702 15,702	
1/20/2020	TRUE	TRUE	FALSE	3.30	9.51	6.48	51%	35%	68%		1.47	6.229355	6.20									15,289	15,702					15,289	15,702	
1/21/2020	TRUE	TRUE	TRUE	3.34	9.21	6.58	51%	36%	71%		1.40	6.226129	6.27	270.40	220.00	1 10		15 201	10.000			15,289	15,702		15 224	10.020		15,289	15,702	
1/22/2020 1/23/2020	TRUE TRUE	TRUE FALSE	FALSE TRUE	3.39 3.42	9.39 9.23	6.59 6.54	51% 52%	36% 37%	70% 71%		1.42 1.41	6.212903 6.180968	6.35 6.39	278.40 218.50	329.00 410.00	1.18 1.88		15,301 11,918	18,082 22,363			15,291 14,809	16,099 16,994		15,234 11,918	18,038 22,363		15,280 14,799	16,091 16,987	
1/24/2020	TRUE	FALSE	FALSE	3.49	8.93	6.58	53%	39%	74%		1.36	6.167097	6.42									14,809	16,994					14,799	16,987	
1/25/2020 1/26/2020	TRUE TRUE	FALSE FALSE	TRUE TRUE	3.62 4.36	8.67	6.62 7.88	55% 55%	42% 40%	76% 72%		1.31	6.190645	6.46 6.67									14,809	16,994					14,799	16,987	
1/27/2020	TRUE	FALSE	FALSE	4.36	10.92 10.93	7.88	55% 54%	37%	69%		1.39 1.46	6.246452 6.285484	6.85									14,809 14,809	16,994 16,994					14,799 14,799	16,987 16,987	
1/28/2020	TRUE	FALSE	FALSE	3.80	11.70	7.28	52%	32%	62%		1.61	6.322581	6.95									14,991	17,755					14,980	17,748	
1/29/2020	FALSE	FALSE	FALSE FALSE	3.62	10.10	6.92	52%	36%	69%		1.46	6.351613	6.99	378.60	314.00	0.83		21,850	18,122			15,971	17,808		21,850	18,122		15,961	17,801	
1/30/2020 1/31/2020	FALSE FALSE	FALSE FALSE	FALSE	3.54 3.50	9.55 9.48	6.72 6.58	53% 53%	37% 37%	70% 69%		1.42 1.44	6.367419 6.379677	7.01 7.01									15,971 15,971	17,808 17,808					15,961 15,961	17,801 17,801	
2/1/2020	FALSE	FALSE	FALSE	3.47	9.17	6.52	53%	38%	71%		1.41	6.404194	7.00									15,971	17,808					15,961	17,801	
2/2/2020	FALSE	FALSE	FALSE	3.21	9.55	6.36	50%	34%	67%		1.50	6.416774	6.97									15,971	17,808					15,961	17,801	
2/3/2020 2/4/2020	FALSE FALSE	FALSE FALSE	FALSE FALSE	3.20 3.18	9.76 9.59	6.35 6.42	50% 50%	33% 33%	65% 67%		1.54 1.49	6.427742 6.441613	6.78 6.64									16,171 16,171	19,038 19,038					16,160 16,160	19,031 19,031	
2/5/2020	FALSE	FALSE	FALSE	3.25	9.51	6.48	50%	34%	68%		1.47	6.458387	6.54									16,171	19,038					16,160	19,031	
2/6/2020	FALSE	FALSE	FALSE	3.26	9.48	6.31	52%	34%	67%		1.50	6.466129	6.47	270.00	254.00	0.00		10 170	12 124			16,171	19,038		10 170	12 124		16,160	19,031	
2/7/2020 2/8/2020	FALSE FALSE	FALSE FALSE	FALSE FALSE	3.23 3.21	9.11 8.78	6.20 6.17	52% 52%	35% 37%	68% 70%		1.47 1.42	6.469677 6.471935	6.40 6.35	370.90	254.00	0.68		19,178	13,134			16,601 16,601	18,195 18,195		19,178	13,134		16,591 16,591	18,188 18,188	
2/9/2020	FALSE	FALSE	FALSE	3.10	9.26	6.24	50%	33%	67%		1.48	6.472903	6.32									16,601	18,195					16,591	18,188	
2/10/2020 2/11/2020	FALSE FALSE	FALSE FALSE	FALSE FALSE	3.19 3.14	9.50 9.34	6.23 6.13	51% 51%	34% 34%	66% 66%		1.52 1.52	6.475806 6.47871	6.30 6.27									16,601	18,195					16,591	18,188	
2/11/2020	FALSE	FALSE	FALSE	3.14	9.11	6.20	51%	35%	68%		1.52	6.484194	6.25									17,850 17,850	17,667 17,667					17,839 17,839	17,660 17,660	
2/13/2020	FALSE	FALSE	FALSE	3.20	8.97	6.07	53%	36%	68%		1.48	6.485484	6.19									17,850	17,667					17,839	17,660	
2/14/2020 2/15/2020	FALSE FALSE	FALSE FALSE	FALSE FALSE	3.24 3.14	8.42 8.57	6.11 5.96	53% 53%	38% 37%	73% 70%		1.38 1.44	6.489355 6.482581	6.17 6.14	298.80	221.00	0.74		15,226	11,262			17,475	16,752		15,226	11,262		17,466 17,087	16,746 16,732	
2/16/2020	FALSE	FALSE	FALSE	3.14	8.29	5.90	53%	38%	70%		1.44	6.468387	6.14									17,099 16,695	16,740 16,592					16,681	16,732	
2/17/2020	FALSE	FALSE	FALSE	3.12	9.53	6.28	50%	33%	66%		1.52	6.467419	6.11									16,695	16,592					16,681	16,584	
2/18/2020	FALSE	FALSE FALSE	FALSE FALSE	3.16	9.34	6.16	51%	34% 34%	66%		1.52	6.467419	6.10 6.10	201 60	357.00	0.01		20,053	18,281			16,695	16,592		20.052	10 201		16,681	16,584	
2/19/2020 2/20/2020	FALSE FALSE	FALSE	FALSE	3.13 3.20	9.21 9.13	6.14 6.16	51% 52%	35%	67% 67%		1.50 1.48	6.468065 6.457742	6.10	391.60 403.40	332.00	0.91 0.82		20,033	17,056			17,254 17,750	16,874 16,900		20,053 20,724	18,281 17,056		17,243 17,741	16,867 16,894	
2/21/2020	FALSE	FALSE	FALSE	3.23	8.75	6.06	53%	37%	69%		1.44	6.440968	6.10									17,750	16,900					17,741	16,894	
2/22/2020 2/23/2020	FALSE FALSE	FALSE FALSE	FALSE FALSE	3.16 3.17	8.38 9.22	5.94 6.13	53% 52%	38% 34%	71% 66%		1.41 1.50	6.42 6.406774	6.08 6.10									18,158 19,406	16,703 15,571					18,158 19,406	16,703 15,571	
2/23/2020	FALSE	FALSE	FALSE	3.17	9.22	6.14	52% 52%	35%	67%		1.49	6.392581	6.13									19,406	15,571					19,406	15,571	
2/25/2020	FALSE	FALSE	FALSE	3.15	9.15	6.00	53%	34%	66%		1.53	6.372581	6.09									19,406	15,571					19,406	15,571	
2/26/2020	FALSE FALSE	FALSE	FALSE FALSE	3.19	8.98	6.08	52% 52%	36%	68%		1.48	6.314516	6.08 6.07	339.00	279.00	0.82 1.07		17,190 15,721	14,147 16,747			19,037	15,334		17,072	14,114		19,017	15,328	
2/27/2020 2/28/2020	FALSE	FALSE FALSE	FALSE	3.14 3.25	9.10 8.79	6.03 6.06	54%	35% 37%	66% 69%		1.51 1.45	6.267097 6.227742	6.06	312.60	333.00	1.07		13,721	10,747			18,563 18,563	15,536 15,536		15,721	16,747		18,546 18,546	15,531 15,531	
2/29/2020	FALSE	FALSE	FALSE	3.19	8.80	6.05	53%	36%	69%		1.45	6.199677	6.05									18,015	15,104					17,996	15,099	
3/1/2020 3/2/2020	FALSE FALSE	FALSE FALSE	FALSE FALSE	3.08 3.03	9.22 9.35	6.08 6.13	51% 49%	33% 32%	66% 66%		1.52 1.53	6.179032 6.164516	6.07 6.07									18,015 18,015	15,104 15,104					17,996 17,996	15,099 15,099	
3/2/2020	FALSE	FALSE	FALSE	3.10	9.35	6.13	51%	34%	67%		1.53	6.150968	6.07									18,015	15,104					17,996	15,099	
3/4/2020	FALSE	FALSE	FALSE	3.19	9.19	6.14	52%	35%	67%		1.50	6.143871	6.08	340.70				17,446				17,934	15,104		17,446			17,917	15,099	
3/5/2020 3/6/2020	FALSE FALSE	FALSE FALSE	FALSE FALSE	3.18 3.30	9.03 8.77	6.11 6.26	52% 53%	35% 38%	68% 71%		1.48 1.40	6.136129 6.130968	6.09 6.12	342.20	262.00	0.77		17,438	13,351			17,872 17,872	14,854 14,854		17,438	13,351		17,857 17,857	14,849 14,849	
3/6/2020	FALSE	FALSE	TRUE	3.36	9.21	6.40	53%	36%	69%		1.44	6.128387	6.16									17,872	14,854					17,857	14,849	
3/8/2020	FALSE	FALSE	FALSE	3.28	9.04	6.34	52%	36%	70%		1.43	6.129355	6.20									17,872	14,854					17,857	14,849	
3/9/2020 3/10/2020	FALSE FALSE	FALSE FALSE	FALSE FALSE	3.30 3.34	9.33 9.53	6.26 6.21	53% 54%	35% 35%	67% 65%		1.49 1.53	6.13129 6.132581	6.22 6.23									17,685 17,685	15,141 15,141					17,669 17,669	15,135 15,135	
3/10/2020	FALSE	FALSE	FALSE	3.37	8.68	6.21	54%	39%	72%		1.40	6.131613	6.24	335.30	209.00	0.62		17,366	10,824			17,645	14,524		17,366	10,824		17,631	14,519	

											Diurnal		- 11		Influent		Influent											30-d Avg	30-d Avg 30-d Avg
Date	Butte	CSU	Precip?	Min Influent	Max Influent	Avg Influent		Min % of		Flow Outlier	Peak		7-d Avg of Avg Flow,	TSS Conc.,	BOD	BOD/TSS	NH3-N	Avg Inf TSS Load,	Avg Inf BOD Load,	Avg Inf NH3 Load,	Load Outlier	30-d Avg of TSS				non-SN BOD Load,		of non-SN	of non-SN of non-SN
	Break?	Break?		Flow, mg	l Flow, mgd	Flow, mgd	Avg	Max	Max	Туре	Factor (DPF)	Flow, mgd	mgd	mg/L	Conc., mg/L	Ratio	Conc., mg/L	ppd	ppd	ppd	Туре	Load, ppd	Load, ppd	Load, ppd	ppd	ppd	ppd	ppd	BOD Load, NH3-N ppd Load, ppd
3/12/2020	FALSE	FALSE	FALSE	3.35	8.64	6.22	54%	39%	72%		1.39	6.13129	6.25									17,645	14,524					17,631	14,519
3/13/2020 3/14/2020	TRUE TRUE	TRUE TRUE	FALSE FALSE	3.33 2.06	8.54 8.60	6.14 6.08	54% 34%	39% 24%	72% 71%	inAvgMinM	1.39 1.41	6.131613 6.129333	6.26 6.25	326.30	263.00	0.81		16,709	13,468			17,541 17,541	14,392 14,392		16,603	13,405		17,516 17,516	14,380 14,380
3/15/2020	TRUE	TRUE	TRUE	2.75	8.53	5.95	46%	32%	70%		1.43	6.125333	6.19									17,541	14,392					17,516	14,380
3/16/2020 3/17/2020	TRUE	TRUE TRUE	TRUE TRUE	3.31	7.73	5.90	56% 57%	43% 43%	76%		1.31	6.118333	6.13 6.13									17,831	14,839					17,803	14,825
3/18/2020	TRUE TRUE	TRUE	TRUE	3.59 3.60	8.33 8.26	6.30 6.32	57%	45%	76% 77%		1.32 1.31	6.129667 6.143333	6.15	290.40	202.00	0.70		15,307	10,647			17,831 17,550	14,839 14,315		15,307	10,647		17,803 17,525	14,825 14,303
3/19/2020	TRUE	TRUE	FALSE	3.43	7.93	6.07	57%	43%	77%		1.31	6.136333	6.13									17,550	14,315					17,525	14,303
3/20/2020 3/21/2020	FALSE FALSE	TRUE TRUE	FALSE FALSE	3.46 3.35	7.74 8.19	5.95 5.88	58% 57%	45% 41%	77% 72%		1.30 1.39	6.129333 6.120667	6.09 6.05									17,550 17,238	14,315 13,749					17,525 17,209	14,303 13,735
3/22/2020	FALSE	TRUE	FALSE	3.30	8.13	5.84	57%	41%	72%		1.39	6.11	6.03									16,739	13,197					16,707	13,181
3/23/2020	FALSE	TRUE	FALSE	3.40	7.89	6.03	56%	43%	76%		1.31	6.109	6.04									16,739	13,197					16,707	13,181
3/24/2020 3/25/2020	FALSE FALSE	FALSE FALSE	TRUE FALSE	1.83 3.42	7.94 7.95	6.18 6.01	30% 57%	23% 43%	78% 76%	inAvgMinM	1.28 1.32	6.114828 6.11069	6.06 6.01	260.00	316.00	1.22		13,032	15,839			16,739 16,276	13,197 13,575		13,032	15,839		16,707 16,248	13,181 13,561
3/26/2020	FALSE	FALSE	FALSE	3.36	7.92	5.83	58%	42%	74%		1.36	6.1	5.94	200.00	310.00	1.22		13,032	13,033			16,276	13,575		13,032	13,033		16,248	13,561
3/27/2020	FALSE	FALSE	FALSE	3.33	7.72	5.85	57%	43%	76%		1.32	6.094828	5.91									16,276	13,575					16,248	13,561
3/28/2020 3/29/2020	FALSE FALSE	FALSE FALSE	TRUE TRUE	3.35 3.25	8.29 8.25	5.92 5.85	57% 56%	40% 39%	71% 71%		1.40 1.41	6.08931 6.083103	5.91 5.90									16,145 16,216	13,479 12,826					16,130 16,199	13,469 12,813
3/30/2020	FALSE	FALSE	FALSE	3.33	7.71	5.90	56%	43%	77%		1.31	6.077586	5.91									16,216	12,826					16,199	12,813
3/31/2020	FALSE	FALSE	FALSE	3.37	7.79	5.85	58%	43%	75%		1.33	6.07069	5.89									16,216	12,826					16,199	12,813
4/1/2020 4/2/2020	FALSE FALSE	FALSE FALSE	FALSE FALSE	3.35 3.30	7.71 7.91	5.76 5.73	58% 58%	43% 42%	75% 72%		1.34 1.38	6.059655 6.045862	5.87 5.84	346.50	326.00	0.94		16,559	15,579			16,216 16,265	12,826 13,285		16,559	15,579		16,199 16,250	12,813 13,274
4/3/2020	FALSE	FALSE	FALSE	3.38	7.59	5.71	59%	45%	75%		1.33	6.032414	5.82									16,265	13,285					16,250	13,274
4/4/2020 4/5/2020	FALSE FALSE	FALSE FALSE	TRUE TRUE	3.22 3.37	8.78 10.53	6.07 6.82	53% 49%	37% 32%	69% 65%		1.45 1.54	6.03 6.054483	5.85 5.96									16,068 15,794	13,285 13,271					16,051 15,773	13,274 13,259
4/6/2020	FALSE	FALSE	TRUE	4.00	8.77	6.82	59%	46%	78%		1.29	6.073793	6.08									15,794	13,271					15,773	13,259
4/7/2020	FALSE	FALSE	TRUE	3.74	8.36	6.38	59%	45%	76%		1.31	6.073103	6.14									15,794	13,271					15,773	13,259
4/8/2020 4/9/2020	FALSE FALSE	FALSE FALSE	FALSE FALSE	3.65 3.56	8.28 7.91	6.28 6.15	58% 58%	44% 45%	76% 78%		1.32	6.071034 6.067241	6.20 6.25	331.60	234.00	0.71		17,008	12,002			15,794 15,997	13,271 13,060		17,008	12,002		15,773 15,979	13,259 13,049
4/10/2020	FALSE	FALSE	FALSE	3.54	7.63	5.96	59%	46%	78%		1.28	6.058621	6.27	270.20	280.00	1.04		13,431	13,918			15,630	13,182		13,431	13,918		15,615	13,173
4/11/2020	FALSE	FALSE	FALSE	3.47	8.11	5.95	58%	43%	73%		1.36	6.049655	6.30									15,341	13,575					15,323	13,565
4/12/2020 4/13/2020	FALSE FALSE	FALSE FALSE	FALSE FALSE	3.38 3.41	8.21 7.84	5.86 5.79	58% 59%	41% 43%	71% 74%		1.40 1.35	6.037241 6.025172	6.28 6.15									15,341 15,067	13,575 13,597					15,323 15,067	13,565 13,597
4/14/2020	FALSE	FALSE	FALSE	3.34	7.78	5.80	58%	43%	75%		1.34	6.017667	6.02									15,067	13,597					15,067	13,597
4/15/2020	FALSE	FALSE	FALSE	3.43	7.66	5.88	58%	45%	77%		1.30	6.015333	5.96	310.80	260.00	0.84		15,241	12,750			15,096	13,456		15,241	12,750		15,096	13,456
4/16/2020 4/17/2020	FALSE FALSE	FALSE FALSE	FALSE FALSE	3.42 3.42	7.69 7.55	5.89 5.85	58% 58%	44% 45%	77% 77%		1.31	6.015 6	5.91 5.87									15,096 15,096	13,456 13,456					15,096 15,096	13,456 13,456
4/18/2020	FALSE	FALSE	FALSE	3.43	7.90	5.88	58%	43%	74%		1.34	5.985333	5.86									15,054	14,018					15,054	14,018
4/19/2020	FALSE	FALSE	FALSE FALSE	3.42	8.13	5.82	59% 57%	42% 44%	72%		1.40	5.977	5.85 5.85									15,054	14,018					15,054	14,018
4/20/2020 4/21/2020	FALSE FALSE	FALSE FALSE	FALSE	3.38 3.38	7.75 7.71	5.91 5.79	58%	44%	76% 75%		1.31 1.33	5.975667 5.972667	5.85									15,054 15,054	14,018 14,018					15,054 15,054	14,018 14,018
4/22/2020	FALSE	FALSE	FALSE	3.45	7.60	5.79	60%	45%	76%		1.31	5.971	5.85									15,054	14,018					15,054	14,018
4/23/2020 4/24/2020	FALSE FALSE	FALSE FALSE	FALSE FALSE	3.36 3.39	7.55 7.38	5.76 5.68	58% 60%	45% 46%	76% 77%		1.31 1.30	5.962 5.952903	5.84 5.81	146.60	282.00	1.92		7,042	13,547			13,719 13,719	13,939 13,939		7,042	13,547		13,719 13,719	13,939 13,939
4/25/2020	FALSE	FALSE	FALSE	3.34	7.73	5.69	59%	43%	74%			5.942581	5.79									13,856	13,559					13,856	13,559
4/26/2020	FALSE	FALSE	FALSE	3.35	7.73	5.71	59%	43%	74%		1.35	5.93871	5.77									13,856	13,559					13,856	13,559
4/27/2020 4/28/2020	FALSE FALSE	FALSE FALSE	FALSE FALSE	3.40 3.41	7.45 7.63	5.72 5.69	59% 60%	46% 45%	77% 75%		1.30 1.34	5.934516 5.927097	5.76 5.73									13,856 13,856	13,559 13,559					13,856 13,856	13,559 13,559
4/29/2020	FALSE	FALSE	FALSE	3.37	7.49	4.78	71%	45%	64%	MinAvg	1.57	5.929667	5.72	317.50	282.00	0.89		12,657	11,242			13,656	13,173		12,657	11,242		13,656	13,173
4/30/2020	FALSE	FALSE	FALSE	0.00	0.00	0.00	0464	7501	0201	'gMinMaxA'	1.07	5.93069	5.71									13,656	13,173					13,656	13,173
5/1/2020 5/2/2020	FALSE FALSE	FALSE FALSE	FALSE FALSE	5.41 3.44	7.22 7.86	6.72 5.82	81% 59%	75% 44%	93% 74%	'gMinMaxA	1.07	5.933571 5.935714	5.70 5.73									13,656 13,656	13,173 13,173					13,656 13,656	13,173 13,173
5/3/2020	FALSE	FALSE	FALSE	3.29	7.98	5.75	57%	41%	72%		1.39	5.936429	5.74									13,076	12,692					13,076	12,692
5/4/2020	FALSE	FALSE	FALSE	3.44	7.70	5.80	59%	45%	75%		1.33	5.939643	5.76									13,076	12,692					13,076	12,692
5/5/2020 5/6/2020	FALSE FALSE	FALSE FALSE	FALSE FALSE	3.39 3.40	7.64 7.40	5.75 5.74	59% 59%	44% 46%	75% 78%		1.33 1.29	5.928214 5.889643	5.76 5.77									13,076 13,076	12,692 12,692					13,076 13,076	12,692 12,692
5/7/2020	FALSE	FALSE	FALSE	3.36	7.43	5.68	59%	45%	76%		1.31	5.848929	5.76	349.90	248.00	0.71		16,575	11,748			13,659	12,534		16,575	11,748		13,659	12,534
5/8/2020	FALSE	FALSE	FALSE	3.42	7.46	5.71	60%	46%	77%		1.31	5.825	5.75									13,659	12,534					13,659	12,534
5/9/2020 5/10/2020	FALSE FALSE	FALSE FALSE	FALSE FALSE	3.38 3.31	7.54 7.62	5.54 5.54	61% 60%	45% 43%	73% 73%		1.36 1.38	5.798571 5.776786	5.72 5.69									13,659 12,989	12,534 12,641					13,659 12,989	12,534 12,641
5/11/2020	FALSE	FALSE	TRUE	3.37	7.89	6.00	56%	43%	76%			5.778214	5.72									12,879	12,322					12,879	12,322
5/12/2020	FALSE	FALSE	TRUE	3.00	7.70	5.94	51%	39%	77%			5.777857	5.74									12,879	12,322					12,879	12,322
5/13/2020	FALSE	FALSE	FALSE	3.42	7.70	5.98	57%	44%	78%		1.29	5.782143	5.77									12,879	12,322					12,879	12,322

	Dutte	CCII		Min	Max	Avg	BA: 0/ 5	Battle of the	A 0/ f	Flow	Diurnal	30-d Avg	7-d Avg of	: Influent	Influent	DOD/TCC	Influent	Avg Inf	Avg Inf	Avg Inf	Load	30-d Avg	30-d Avg	30-d Avg	non-SN	non-SN	non-SN		30-d Avg 30-	
Date	Butte Break?	CSU Break?	Precip?	Influent Flow, mgd	Influent Flow, mgd	Influent	Δνσ	Min % of Max	Avg % of Max	Outlier Type	Peak Factor	of Avg Flow, mgd		TSS Conc., mg/L	BOD Conc.,	BOD/TSS Ratio	NH3-N Conc.,	TSS Load, ppd	BOD Load,	NH3 Load, ppd	Outlier Type	of TSS Load, ppd			TSS Load, ppd	BOD Load, ppd	NH3 Load, ppd	TSS Load,		IH3-N
											(DPF)				mg/L		mg/L											ppd		ad, ppd
5/14/2020 5/15/2020	FALSE FALSE	FALSE FALSE	FALSE FALSE	3.42 3.48	7.70 7.68	5.98 5.80	57% 60%	44% 45%	78% 76%		1.29 1.32	5.788929 5.788929	5.80 5.81	242.90	389.00	1.60		12,114	19,401			12,726 12,726	13,738 13,738		12,114	19,401		12,726 12,726	13,738 13,738	
5/16/2020	FALSE	FALSE	TRUE	3.36	7.86	5.83	58%	43%	74%		1.35	5.787143	5.83									12,097	13,984					12,097	13,984	
5/17/2020	FALSE	TRUE	TRUE	3.63	8.92	6.47	56%	41%	73%		1.38	5.807857	5.94									12,097	13,984					12,097	13,984	
5/18/2020 5/19/2020	FALSE FALSE	TRUE TRUE	TRUE TRUE	3.97 3.74	8.79 8.37	6.84 6.55	58% 57%	45% 45%	78% 78%		1.29 1.28	5.843214 5.867143	6.11 6.17									12,097 12,097	13,984 13,984					12,097 12,097	13,984 13,984	
5/20/2020	FALSE	TRUE	TRUE	3.97	8.31	6.63	60%	48%	80%		1.25	5.896071	6.26	309.40	293.00	0.95		17,108	16,201			13,099	14,428		16,898	16,127		13,057	14,413	
5/21/2020	FALSE	TRUE	FALSE	3.69	8.25	6.35	58%	45%	77%		1.30	5.911786	6.31									13,099	14,428					13,057	14,413	
5/22/2020 5/23/2020	FALSE FALSE	TRUE TRUE	FALSE FALSE	3.55 3.63	7.95 7.74	6.17 5.89	58% 62%	45% 47%	78% 76%		1.29 1.31	5.925357 5.928929	6.33 6.34									13,099 13,099	14,428 14,428					13,057 13,057	14,413 14,413	
5/24/2020	FALSE	TRUE	FALSE	3.43	7.74	5.64	61%	46%	75%		1.33	5.924643	6.32									14,614	14,428					14,561	14,629	
5/25/2020	FALSE	TRUE	FALSE	3.65	7.86	5.89	62%	46%	75%		1.33	5.932143	6.25									14,614	14,648					14,561	14,629	
5/26/2020	FALSE	TRUE	FALSE	3.67	7.46	5.91	62%	49%	79%		1.26	5.94	6.13	272.20	240.00	4.20		42.552	47 277			14,614	14,648		42.552	47 277		14,561	14,629	
5/27/2020 5/28/2020	FALSE FALSE	TRUE TRUE	FALSE FALSE	3.61 3.89	7.63 7.65	5.97 6.10	60% 64%	47% 51%	78% 80%		1.28 1.25	5.949286 5.962857	6.06 5.99	272.20	349.00	1.28		13,553	17,377			14,401 14,401	15,194 15,194		13,553	17,377		14,359 14,359	15,179 15,179	
5/29/2020	TRUE	TRUE	FALSE	3.75	7.76	6.14	61%	48%	79%		1.26	5.978929	5.96									14,401	15,194					14,359	15,179	
5/30/2020	TRUE	TRUE	TRUE	3.68	8.08	6.07	61%	46%	75%		1.33	5.982069	5.95									14,838	16,182					14,785	16,163	
5/31/2020	TRUE	TRUE	FALSE	3.60	8.11	6.01	60%	44%	74%		1.35	5.983	5.97									14,838	16,182					14,785	16,163	
6/1/2020 6/2/2020	TRUE TRUE	TRUE TRUE	FALSE FALSE	3.65 3.47	7.51 7.40	5.96 5.79	61% 60%	49% 47%	79% 78%		1.26 1.28	5.982258 5.98129	6.01 5.99									14,838 14,838	16,182 16,182					14,785 14,785	16,163 16,163	
6/3/2020	TRUE	TRUE	FALSE	3.51	7.57	5.84	60%	46%	77%		1.30	5.984194	5.99	326.40	324.00	0.99		15,898	15,781			15,050	16,101		15,898	15,781		15,007	16,087	
6/4/2020	TRUE	TRUE	FALSE	3.49	7.42	5.81	60%	47%	78%		1.28	5.984516	5.97									15,050	16,101					15,007	16,087	
6/5/2020 6/6/2020	TRUE TRUE	TRUE TRUE	FALSE TRUE	3.46 3.49	7.52 7.85	5.93 5.86	58% 60%	46% 44%	79% 75%		1.27 1.34	5.990323 5.994194	5.94 5.91									15,050 15,050	16,101 16,101					15,007 15,007	16,087 16,087	
6/7/2020	TRUE	TRUE	FALSE	3.43	7.88	5.73	58%	42%	73%		1.34	5.995806	5.87									14,668	17,190					14,616	17,171	
6/8/2020	TRUE	TRUE	FALSE	3.32	7.41	5.77	58%	45%	78%		1.28	5.997742	5.84									14,668	17,190					14,616	17,171	
6/9/2020	TRUE	TRUE	FALSE	3.53	7.36	5.82	61%	48%	79%		1.26	6.006774	5.82									14,668	17,190					14,616	17,171	
6/10/2020 6/11/2020	TRUE TRUE	TRUE TRUE	FALSE FALSE	3.43 3.50	7.37 7.40	5.77 5.82	59% 60%	47% 47%	78% 79%		1.28 1.27	6.014194 6.008387	5.82 5.81	328.80	245.00	0.75		15,960	11,892			14,668 14,926	17,190 16,130		15,960	11,892		14,616 14,884	17,171 16,115	
6/12/2020	TRUE	TRUE	TRUE	3.38	7.40	5.94	57%	47%	82%		1.22	6.008387	5.83	328.80	243.00	0.73		13,300	11,032			14,926	16,130		13,300	11,032		14,884	16,115	
6/13/2020	TRUE	TRUE	TRUE	2.08	7.69	5.72	36%	27%	74%	MinAvg	1.34	6.009333	5.82									14,926	16,130					14,884	16,115	
6/14/2020	TRUE	TRUE	FALSE	3.37	7.55	5.64	60%	45%	75%		1.34	5.998	5.78									15,629	15,313					15,577	15,294	
6/15/2020 6/16/2020	TRUE TRUE	TRUE TRUE	FALSE FALSE	3.44 3.52	7.53 7.41	5.93 5.75	58% 61%	46% 48%	79% 78%		1.27 1.29	6.002333 5.999667	5.81 5.81									15,629 15,629	15,313 15,313					15,577 15,577	15,294 15,294	
6/17/2020	TRUE	TRUE	FALSE	3.45	7.41	5.79	60%	47%	78%		1.28	5.977	5.81	334.80	244.00	0.73		16,167	11,782			15,737	14,607		16,167	11,782		15,695	14,592	
6/18/2020	TRUE	TRUE	FALSE	3.42	7.24	5.71	60%	47%	79%		1.27	5.939333	5.80									15,737	14,607					15,695	14,592	
6/19/2020	TRUE	TRUE	FALSE	3.58	7.21	5.77	62%	50%	80%		1.25	5.913333	5.79									15,737	14,607					15,695	14,592	
6/20/2020 6/21/2020	TRUE TRUE	TRUE TRUE	FALSE FALSE	3.35 3.31	7.47 7.37	5.58 5.49	60% 60%	45% 45%	75% 74%		1.34 1.34	5.878333 5.849667	5.74 5.71									15,394 15,394	14,208 14,208					15,394 15,394	14,208 14,208	
6/22/2020	TRUE	TRUE	FALSE	3.41	7.35	5.78	59%	46%	79%		1.27	5.836667	5.73									15,394	14,208					15,394	14,208	
6/23/2020	TRUE	TRUE	FALSE	3.39	7.37	5.81	58%	46%	79%		1.27	5.834	5.71									15,394	14,208					15,394	14,208	
6/24/2020	TRUE	TRUE	FALSE	3.45	7.33	5.84	59%	47%	80%		1.26	5.840667	5.72	353.50	243.00	0.69		17,217	11,835			15,759	13,733		17,217	11,835		15,759	13,733	
6/25/2020 6/26/2020	TRUE TRUE	TRUE TRUE	FALSE FALSE	3.48 3.60	7.31 7.20	5.79 5.76	60% 63%	48% 50%	79% 80%		1.26 1.25	5.837333 5.832333	5.72 5.73									15,759 15,759	13,733 13,733					15,759 15,759	13,733 13,733	
6/27/2020	TRUE	TRUE	FALSE	3.47	7.47	5.66	61%	46%	76%		1.32	5.822	5.71									16,310	12,823					16,310	12,823	
6/28/2020	TRUE	TRUE	FALSE	3.35	7.60	5.75	58%	44%	76%		1.32	5.810333	5.74									16,310	12,823					16,310	12,823	
6/29/2020	TRUE	TRUE	FALSE FALSE	3.35	7.32	5.79	58% 62%	46%	79%			5.798667 5.789667	5.77 5.78									16,310	12,823					16,310	12,823	
6/30/2020 7/1/2020	TRUE TRUE	TRUE TRUE	FALSE	3.57 3.49	7.33 7.31	5.80 5.80	62% 60%	49% 48%	79% 79%		1.26 1.26	5.789667	5.78 5.77	312.40	150.00	0.48		15,111	7,256			16,310 16,071	12,823 11,709		15,111	7,256		16,310 16,071	12,823 11,709	
7/2/2020	TRUE	TRUE	FALSE	3.47	7.25	5.81	60%	48%	80%			5.777667	5.77					-,	,			16,071	11,709		/	,		16,071	11,709	
7/3/2020	TRUE	TRUE	FALSE	3.48	7.50	5.71	61%	46%	76%		1.31	5.775	5.76									16,071	11,709					16,071	11,709	
7/4/2020 7/5/2020	TRUE	TRUE	FALSE	3.41	7.23	5.29	64%	47% 46%	73%		1.37	5.756667	5.70									16,114	10,691					16,114	10,691	
7/5/2020	TRUE TRUE	TRUE TRUE	FALSE FALSE	3.30 3.42	7.21 7.34	5.34 5.80	62% 59%	46% 47%	74% 79%		1.35 1.27	5.741 5.736667	5.66 5.67									16,114 16,114	10,691 10,691					16,114 16,114	10,691 10,691	
7/7/2020	TRUE	TRUE	FALSE	3.39	7.32	5.78	59%	46%	79%		1.27	5.734	5.67									16,114	10,691					16,114	10,691	
7/8/2020	TRUE	TRUE	FALSE	3.51	7.27	5.84	60%	48%	80%		1.24	5.737667	5.67									16,114	10,691					16,114	10,691	
7/9/2020 7/10/2020	TRUE	TRUE TRUE	FALSE FALSE	3.43 3.47	7.23 7.29	5.73 5.74	60% 60%	47% 48%	79% 79%		1.26 1.27	5.736333 5.733667	5.66 5.65	331.50	224.00	0.68		15,869	10,723			16,114 16,065	10,691 10,698		15,869	10,723		16,114 16,065	10,691 10,698	
7/10/2020	TRUE TRUE	TRUE	FALSE	3.47	7.29	5.74	64%	48%	75% 75%			5.727333	5.64	331.30	224.00	0.08		13,003	10,723			16,065	10,698		13,003	10,723		16,065	10,698	
7/12/2020	TRUE	TRUE	FALSE	3.36	7.33	5.52	61%	46%	75%		1.33	5.717333	5.67									16,091	10,399					16,091	10,399	
7/13/2020	TRUE	TRUE	FALSE	3.39	7.42	5.80	58%	46%	78%		1.28	5.712667	5.72									16,091	10,399					16,091	10,399	
7/14/2020 7/15/2020	TRUE TRUE	TRUE TRUE	FALSE FALSE	3.50 3.53	7.41 7.34	5.85 5.89	60% 60%	47% 48%	79% 80%			5.717097 5.725161	5.73 5.74	290.40	250.00	0.86		14,265	12,281			16,091 15,726	10,399 10,776		14,265	12,281		16,091 15,726	10,399 10,776	

The column The					Min	Max	Avg				Flow	Diurnal	30-d Avg	7-d Avg of	Influent	Influent		Influent	Avg Inf	Avg Inf	Avg Inf	Load	30-d Avg	30-d Avg	30-d Avg	non-SN	non-SN	non-SN		30-d Avg 30	
Part	Date		CSU Break?	Precip?	Influent	Influent	Influent				Outlier					BOD Conc	BOD/TSS Ratio	NH3-N Conc					of TSS	of BOD	of NH3-N			NH3 Load.			
					Flow, mgd	l Flow, mgd	Flow, mgd	Ŭ			Туре		Flow, mgd	mgd	mg/L	mg/L			ppd	ppd	ppd	Туре	Load, ppd	Load, ppd	Load, ppd	ppd	ppd	ppd	ppd	ppd Lo	ad, ppd
																							•	•					•	•	
																							•	•					•	•	
																							-	•						•	
															338.40	229.00	0.68		16.651	11.268						16.651	11.268				
PATE															555.15	223.00	0.00		10,001	11,200			-	•		20,032	11,200		•	•	
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																														•	
Page																							•							•	
1.5 1.5																							-							•	
															352.30	268.00	0.76		17,218	13,098						17,218	13,098				
																							-							•	
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PACTORN THE																															
March The Th																														•	
1879 1879	8/5/2020	TRUE	TRUE	FALSE	3.57	7.63	5.94	60%		78%		1.28	5.797097	5.84	315.90	254.00	0.80		15,650	12,583			15,931	11,991		15,650	12,583		15,931	11,991	
\$\text{\$\frac{8}{9}\text{\$\frac{7}{20}}\text{\$\frac{7}{20}}\tex																															
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Mystyle Myst															320.70	204.00	0.64		16 101	10 242			-			16 101	10 242			•	
Section Sect															320.70	201.00	0.01		10,101	10,212						10,101	10,212				
11-78 11-7																															
Stripton																														•	
SATING COLOR FRUE TRUE FALSE 3.61 7.88 5.10 5.99 4.9% 7.7% 1.29 5.87 5.95 32.290 20.200 0.63 16.427 10.277 16.940 11.494 14.748 9.981 18.087 11.494 18.087 11.																							· · · · · · · · · · · · · · · · · · ·								
SAPANOZOO TRUE TRUE FALSE 3.68 7.91 6.15 6.07 4.70 7.80 1.28 5.88 5.97 1.60 11.6	8/18/2020	TRUE	TRUE	FALSE	3.57	7.96	6.02	59%	45%	76%		1.32	5.855806	5.94									16,405	11,798					16,405	11,798	
SATION TRUE TRUE FALSE 5.69 4.7% 7.8% 1.28 5.885774 5.99 1.690															322.90	202.00	0.63		16,427	10,277			-			14,714	9,961			•	
\$\frac{8}{12,000} \text{FRUE} \text{TRUE} \text{FRUE} FRUE																															
\$\frac{8}{1}\frac{1}{2}\frac{1}\frac{1}{2}\frac{1}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\fr			TRUE						43%														•	•					•	•	
R/15/20/20 FALSE FALSE FALSE AS 8.06 6.14 5.9% 45% 76% 1.31 5.993103 6.12 73.60 28.00 0.83 14,033 11,694 15,543 11,510 15,543 11,516 8/27/20/20 FALSE FALSE FALSE AS 3.00 7.99 6.15 5.7% 44% 77% 1.30 5.94800 6.13 6.13 5.94800 6.13 6.14 6						_																	•	•					•	•	
R/16/2020 FALSE FALSE FALSE ASS 8.08 6.15 59% 45% 76% 1.31 5.939032 6.12 273.60 228.00 0.83 14,033 11,694 15,886 11,579 14,033 11,694 15,543 11,516 15,642 15,643 15,156 15,642 15,643 15,156 15,642 15,643 15,156 15,642 15,643 15,156 15,642 15,643 15,156 15,642 15,643 15,156 15,																															
8/29/2020 FALSE FALSE FALSE FALSE AGA 8.11 6.07 6.0% 45% 75% 1.34 5.963584 6.14 1.553 11.599 1.51.24 11.120 8/30/2020 FALSE FALSE FALSE FALSE FALSE AGA 8.11 6.07 6.0% 45% 75% 1.34 5.963584 6.14 1.553 11.199 1.51.24 11.120 8/30/2020 FALSE FALSE FALSE FALSE AGA 8.18 6.15 57% 43% 75% 1.33 5.983286 6.14 1.553 11.199 1.51.24 11.120 9/1/2020 FALSE FALSE FALSE FALSE AGA 8.25 6.19 58% 43% 75% 1.33 5.983286 6.14 1.553 11.199 1.51.24 11.120 9/2/2020 FALSE FALSE FALSE AGA 8.25 6.19 58% 43% 75% 1.33 6.008387 6.13 2.8670 303.00 1.06 14.801 15.642 15.642 15.060 12.025 9/3/2020 FALSE FALSE FALSE FALSE AGA 8.25 6.19 58% 43% 75% 1.33 6.008387 6.13 2.8670 303.00 1.06 14.801 15.642 15.042 12.088 14.801 15.642 15.060 12.025 9/3/2020 FALSE FALSE FALSE FALSE AGA 8.25 6.19 58% 43% 75% 1.33 6.008387 6.13 2.8670 303.00 1.06 14.801 15.642 15.042 12.088 14.801 15.642 15.060 12.025 9/3/2020 FALSE FALSE FALSE FALSE AGA 8.25 6.19 58% 43% 75% 1.34 6.019355 6.14 1.540 1.540 1.540 1.540 1.540 1.540 9/3/2020 FALSE FALSE FALSE AGA 8.37 7.70 5.81 6.11% 4.06% 75% 1.33 6.0023871 6.00 6.15 6.000 6.15 6.000 6.15 6.000 6.15 6.000 6.15 6.100 6.15 6.100 6.15 6.100 6.15 6.100 6.15 6.100 6.15 6.100 6.15 6.100 6.15 6.100 6.15 6.100 6.15 6.100 6.15 6.100 6.15 6.100 6.15 6.100 6.15 6.100 6.15 6.1															273.60	228.00	0.83		14,033	11,694						14,033	11,694				
8/29/2020 FALSE FALSE FALSE SALSE FALSE SALSE																															
8/31/2002 FALSE FALSE FALSE ALSE ALSE ALSE ALSE ALSE ALSE ALSE																															
8/31/2020																															
9/2/2020 FALSE FALSE FALSE ALSE FALSE ALSE ALSE ALSE ALSE ALSE ALSE ALSE	8/31/2020	FALSE	FALSE	FALSE	3.50	8.18	6.15	57%	43%	75%		1.33	5.983226	6.14									15,553	11,199					15,124	11,120	
9/3/2020 FALSE FALSE FALSE 3.60 8.10 6.25 88% 44% 77% 1.30 6.019355 6.14 9/4/2020 FALSE FALSE FALSE 3.57 7.70 5.81 61% 46% 75% 1.28 6.026774 6.15 9/6/2020 FALSE FALSE FALSE 3.57 7.70 5.81 61% 46% 75% 1.34 6.02781 6.10 9/6/2020 FALSE FALSE FALSE 3.57 7.57 5.65 60% 45% 75% 1.34 6.017419 6.05 9/7/2020 FALSE FALSE FALSE 3.47 8.08 6.04 57% 42% 75% 1.34 6.033226 6.02 9/8/2020 FALSE FALSE FALSE 3.47 8.08 6.04 57% 43% 75% 1.34 6.033226 6.02 9/9/2020 FALSE FALSE FALSE 3.48 8.06 6.25 56% 43% 78% 1.29 6.048387 6.05 297.90 313.00 1.05 15,528 16,315 15,378 12,834 15,528 16,315 15,035 12,771 9/10/2020 FALSE FALSE FALSE 3.57 8.06 6.26 57% 44% 78% 1.29 6.059677 6.06 9/11/2020 FALSE FALSE FALSE 3.54 8.25 6.12 58% 43% 74% 1.35 6.069032 6.04 9/11/2020 FALSE FALSE FALSE 3.54 8.28 6.07 58% 1.34 6.077097 6.08 9/11/2020 FALSE FALSE FALSE 3.58 8.08 6.04 57% 45% 78% 1.28 6.065806 6.05 9/11/2020 FALSE FALSE FALSE 3.58 8.08 6.04 57% 45% 78% 1.29 6.059677 6.06 9/11/2020 FALSE FALSE FALSE 3.58 8.08 6.04 57% 45% 78% 1.29 6.059677 6.06 9/11/2020 FALSE FALSE FALSE 3.58 8.08 6.04 57% 45% 78% 1.29 6.059607 6.06 9/11/2020 FALSE FALSE FALSE 3.58 8.08 6.04 57% 45% 78% 1.29 6.059607 6.06 9/11/2020 FALSE FALSE FALSE 3.54 8.25 6.12 58% 43% 74% 1.35 6.069032 6.04 9/11/2020 FALSE FALSE FALSE 3.54 8.28 6.17 56% 42% 75% 1.34 6.085806 6.13 9/11/2020 FALSE FALSE FALSE 5.45 5.45 8.38 6.14 56% 41% 73% 1.36 6.077097 6.08 9/11/2020 FALSE FALSE FALSE 5.45 5.45 8.38 6.14 56% 41% 73% 1.36 6.077097 6.08 9/11/2020 FALSE FALSE FALSE 5.45 5.45 8.38 6.14 56% 42% 75% 1.34 6.085806 6.15															206.70	303.00	1.06		1/1 001	15 642						1/1 901	15 6/2				
9/4/2020 FALSE FALSE FALSE ALSE ALSE ALSE ALSE ALSE ALSE ALSE															200.70	303.00	1.00		14,001	13,042						14,001	13,042				
9/6/2020 FALSE FALSE FALSE FALSE FALSE S.3.7 7.57 5.65 60% 45% 75% 1.34 6.017419 6.05 9/7/2020 FALSE FALSE FALSE FALSE S.4.4 8.2.8 6.01 57% 42% 73% 1.38 6.023871 6.04 15,341 11,964 11,914 11,964 11,914 11,964 11,914 11,964 11,914 11,964 11,914 11,964 11,914 11,964 11,914 11,964 11,914 11,964 11,914 11,964 11,914 11,964 11,914 11,964 11,914 11,964 11,914 11,																															
9/7/2020 FALSE FAL																															
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9/9/2020 FALSE FALSE FALSE SAB 8.06 6.25 56% 43% 78% 1.29 6.048387 6.05 297.90 313.00 1.05 15,528 16,315 15,378 12,834 15,528 16,315 15,035 12,771 9/10/2020 FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE 15,378 12,834 15,528 16,315 15,035 12,771 9/11/2020 FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE 57% 44% 78% 1.29 6.059677 6.06 6.05 43% 78% 1.28 6.065806 6.05 58% 43% 74% 1.35 6.065806 6.05 58% 43% 74% 1.35 6.069032 6.04 6.077097 6.08 6.077097 6.08 6.077097 6.08 6.13 15,197 13,482 15,197 13,403 14,769 <th< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></th<>																															
9/11/2020 FALSE FALSE FALSE 3.55 7.92 6.18 57% 45% 78% 1.28 6.065806 6.05 9/12/2020 FALSE FALSE FALSE FALSE 3.54 8.25 6.12 58% 43% 74% 1.35 6.069032 6.04 9/13/2020 FALSE FALSE FALSE FALSE FALSE 3.45 8.38 6.14 56% 41% 73% 1.36 6.077097 6.08 9/14/2020 FALSE FALSE FALSE FALSE FALSE 3.48 8.08 6.05 58% 43% 75% 1.34 6.085806 6.13 9/15/2020 FALSE FALSE FALSE FALSE FALSE 3.44 8.28 6.17 56% 42% 75% 1.34 6.10968 6.15															297.90	313.00	1.05		15,528	16,315						15,528	16,315				
9/12/2020 FALSE FALSE FALSE S.54 8.25 6.12 58% 43% 74% 1.35 6.069032 6.04 9/13/2020 FALSE FALSE FALSE FALSE S.45 8.38 6.14 56% 41% 73% 1.36 6.077097 6.08 9/14/2020 FALSE FALSE FALSE FALSE FALSE S.48 8.08 6.05 58% 43% 75% 1.34 6.085806 6.13 9/15/2020 FALSE FALSE FALSE FALSE FALSE FALSE FALSE 5.6% 42% 75% 1.34 6.10968 6.15																															
9/13/2020 FALSE FALSE FALSE 13,482 14,769 13,403 9/14/2020 FALSE FALSE FALSE 14,769 13,403 9/15/2020 FALSE FALSE FALSE 13,482 14,769 13,403 9/15/2020 FALSE FALSE FALSE 13,482 14,769 13,403 9/15/2020 FALSE FALSE 14,769 13,403 15,197 13,482 14,769 13,403 14,769 13,403 15,197 13,482 14,769 13,403 15,197 13,482 14,769 13,403 15,197 13,482 14,769 13,403 15,197 13,482 14,769 13,403 15,197 13,482 14,769 13,403 15,197 13,482 14,769 13,403 15,197 13,482 14,769 13,403 15,197 13,482 14,769 13,403 15,197 13,482 14,769 13,403 15,197 13,482 14,769 13,403 15,197 13,482 14,769 13,403 15,197 13,482 14,769 13,403 15,197 13,																															
9/15/2020 FALSE FALSE FALSE 3.44 8.28 6.17 56% 42% 75% 1.34 6.100968 6.15 15,197 13,482 14,769 13,403	9/13/2020	FALSE	FALSE	FALSE	3.45	8.38	6.14	56%	41%	73%		1.36	6.077097	6.08									15,197	13,482					14,769	13,403	

											Diurnal			-	Influent		Influent											30-d Avg	30-d Avg 30-d Av
Date	Butte	csu	Precip?	Min Influent	Max Influent	Avg Influent		Min % of		Flow Outlier	Peak		7-d Avg of Avg Flow,	Influent TSS Conc.,	BOD	BOD/TSS	NH3-N	Avg Inf TSS Load,	Avg Inf BOD Load,	Avg Inf NH3 Load,	Load Outlier	30-d Avg of TSS		30-d Avg of NH3-N			NH3 Load.	of non-SN	of non-SN of non-S
	Break?	Break?		Flow, mgd	d Flow, mgd	Flow, mgd	Avg	Max	Max	Туре	Factor (DPF)	Flow, mgd	mgd	mg/L	Conc., mg/L	Ratio	Conc., mg/L	ppd	ppd	ppd	Туре	Load, ppd	Load, ppd	Load, ppd	ppd	ppd	ppd	ppd	BOD Load, NH3-N ppd Load, pp
9/17/2020	FALSE	FALSE	FALSE	3.57	8.10	6.15	58%	44%	76%		1.32	6.10871	6.16	306.30	218.00	0.71		15,710	11,181			15,300	13,022		15,710	11,181		14,957	12,959
9/18/2020 9/19/2020	FALSE FALSE	FALSE FALSE	FALSE FALSE	3.55 3.53	7.99 8.22	6.23 6.08	57% 58%	44% 43%	78% 74%		1.28 1.35	6.115484 6.114839	6.16 6.14									15,300 15,018	13,022 13,708					14,957 15,018	12,959 13,708
9/20/2020	FALSE	FALSE	FALSE	3.39	8.20	6.02	56%	41%	73%		1.36	6.110645	6.13									15,018	13,708					15,018	13,708
9/21/2020 9/22/2020	FALSE FALSE	FALSE FALSE	FALSE FALSE	3.48 3.56	8.05 8.24	6.17 6.19	56% 58%	43% 43%	77% 75%		1.30 1.33	6.114516 6.119355	6.14 6.15									15,018 15,018	13,708 13,708					15,018 15,018	13,708 13,708
9/23/2020	FALSE	FALSE	FALSE	3.59	8.20	6.24	58%	44%	76%		1.31	6.121935	6.16	313.00	232.00	0.74		16,289	12,074			15,272	13,381		16,289	12,074		15,272	13,381
9/24/2020	FALSE	FALSE	FALSE	3.56	8.20	6.21	57%	43%	76%		1.32	6.122258	6.16									15,272	13,381					15,272	13,381
9/25/2020 9/26/2020	FALSE FALSE	FALSE FALSE	FALSE FALSE	3.50 3.53	8.18 8.00	6.16 5.98	57% 59%	43% 44%	75% 75%		1.33 1.34	6.122903 6.117419	6.16 6.13									15,272 15,582	13,381 13,803					15,272 15,582	13,381 13,803
9/27/2020	FALSE	FALSE	FALSE	3.41	8.33	6.05	56%	41%	73%		1.38	6.114194	6.13									15,582	13,803					15,582	13,803
9/28/2020	FALSE	FALSE	FALSE	3.45	8.19	6.18	56%	42%	75%		1.33	6.113548	6.15									15,582	13,803					15,582	13,803
9/29/2020 9/30/2020	FALSE FALSE	FALSE FALSE	FALSE FALSE	3.52 3.58	8.01 8.24	6.10 6.17	58% 58%	44% 43%	76% 75%		1.31 1.34	6.114516 6.117097	6.14 6.14	342.20	258.00	0.75		17,609	13,276			15,582 15,987	13,803 13,698		17,609	13,276		15,582 15,987	13,803 13,698
10/1/2020	FALSE	FALSE	FALSE	3.57	8.18	6.20	58%	44%	76%		1.32	6.11871	6.13					,				15,987	13,698		,,			15,987	13,698
10/2/2020	FALSE	FALSE	FALSE	3.52	7.92	6.16	57%	44%	78%		1.29	6.122581	6.13									15,987	13,698					15,987	13,698
10/3/2020 10/4/2020	FALSE FALSE	FALSE FALSE	FALSE FALSE	3.55 3.45	8.23 8.35	6.13 6.09	58% 57%	43% 41%	74% 73%		1.34 1.37	6.120645 6.115484	6.12 6.14									16,284 16,284	13,212 13,212					16,284 16,284	13,212 13,212
10/5/2020	FALSE	FALSE	FALSE	3.51	8.22	6.12	57%	43%	74%		1.34	6.113548	6.14									16,284	13,212					16,284	13,212
10/6/2020	FALSE	FALSE	FALSE	3.50	8.26	6.13	57%	42%	74%		1.35	6.123871	6.14	247.20	222.00	1 25		12.702	17 101			16,284	13,212		12.762	17 101		16,284	13,212
10/7/2020 10/8/2020	FALSE FALSE	FALSE FALSE	FALSE FALSE	3.56 3.60	8.28 8.13	6.19 6.22	58% 58%	43% 44%	75% 77%		1.34	6.14129 6.148065	6.15 6.16	247.20	333.00	1.35		12,762	17,191			15,580 15,580	14,007 14,007		12,762	17,191		15,580 15,580	14,007 14,007
10/9/2020	FALSE	FALSE	FALSE	3.49	8.03	6.20	56%	43%	77%		1.30	6.153226	6.16									15,580	14,007					15,580	14,007
10/10/2020	FALSE	FALSE	FALSE	3.48	8.31	6.06	57%	42%	73%		1.37	6.147097	6.14									15,592	13,431					15,592	13,431
10/11/2020 10/12/2020	FALSE FALSE	FALSE FALSE	FALSE FALSE	3.39 3.41	8.22 8.33	6.04 6.16	56% 55%	41% 41%	73% 74%		1.36 1.35	6.14 6.139355	6.13 6.14									15,592 15,592	13,431 13,431					15,592 15,592	13,431 13,431
10/13/2020	FALSE	FALSE	FALSE	3.49	8.26	6.12	57%	42%	74%		1.35	6.139355	6.14									15,592	13,431					15,592	13,431
10/14/2020 10/15/2020	FALSE FALSE	FALSE FALSE	FALSE FALSE	3.45 3.44	8.07 8.00	6.04	57% 57%	43% 43%	75%		1.34	6.136129 6.136774	6.13 6.11	332.00	333.00	1.00		16,724	16,774			15,819	14,099		16,724	16,774		15,819	14,099
10/15/2020	FALSE	FALSE	FALSE	3.43	7.75	6.07 6.02	57%	45%	76% 78%		1.32 1.29	6.131935	6.09									15,819 15,819	14,099 14,099					15,819 15,819	14,099 14,099
10/17/2020	FALSE	FALSE	FALSE	3.45	7.79	5.86	59%	44%	75%		1.33	6.120645	6.05									15,819	14,099					15,819	14,099
10/18/2020 10/19/2020	FALSE	FALSE	FALSE FALSE	3.37 3.45	8.20	6.01	56% 56%	41%	73%		1.36	6.116129	6.04 6.05									15,846	14,829					15,846	14,829 14,829
10/19/2020	FALSE FALSE	FALSE FALSE	FALSE	3.43	8.33 8.44	6.12 6.11	56%	41% 40%	73% 72%		1.36 1.38	6.112581 6.113548	6.04									15,846 15,846	14,829 14,829					15,846 15,846	14,829
10/21/2020	FALSE	FALSE	FALSE	3.42	8.26	6.12	56%	41%	74%		1.35	6.116774	6.04									15,846	14,829					15,846	14,829
10/22/2020 10/23/2020	FALSE FALSE	FALSE FALSE	FALSE FALSE	3.46 3.43	8.06 7.80	6.09 6.09	57% 56%	43% 44%	76% 78%		1.32 1.28	6.114194 6.110968	6.05 6.05	293.50	244.00	0.83		14,907	12,393			15,658 15,658	14,342 14,342		14,907	12,393		15,658 15,658	14,342 14,342
10/23/2020	FALSE	FALSE	FALSE	3.49	8.27	6.02	58%	42%	73%		1.37	6.103871	6.05									15,500	14,909					15,500	14,909
10/25/2020	FALSE	FALSE	FALSE	3.40	8.37	6.10	56%	41%	73%		1.37	6.100323	6.08									15,500	14,909					15,500	14,909
10/26/2020 10/27/2020	FALSE FALSE	FALSE FALSE	FALSE FALSE	3.36 3.42	8.51 8.41	6.15 6.14	55% 56%	39% 41%	72% 73%		1.38 1.37	6.1 6.105161	6.10 6.10									15,500 15,500	14,909 14,909					15,500 15,500	14,909 14,909
10/28/2020	FALSE	FALSE	FALSE	3.44	8.44	6.18	56%	41%	73%		1.37	6.109355	6.11									15,500	14,909					15,500	14,909
10/29/2020	FALSE	FALSE	FALSE	3.50	8.35	6.21	56%	42%	74%		1.34	6.110323	6.12	396.80	288.00	0.73		20,551	14,916			16,510	14,910		20,551	14,916		16,510	14,910
10/30/2020 10/31/2020	FALSE FALSE	FALSE FALSE	FALSE FALSE	3.45 3.43	7.95 8.44	6.16 6.09	56% 56%	43% 41%	77% 72%		1.29 1.39	6.112258 6.109677	6.13 6.13									16,510 16,236	14,910 15,319					16,510 16,236	14,910 15,319
11/1/2020	FALSE	FALSE	FALSE	3.37	8.45	6.07	56%	40%	72%		1.39	6.105484	6.14									16,236	15,319					16,236	15,319
11/2/2020	FALSE	FALSE	FALSE	3.41	8.32	6.13	56%	41%	74%		1.36	6.104516	6.14									16,236	15,319					16,236	15,319
11/3/2020 11/4/2020	FALSE FALSE	FALSE FALSE	FALSE FALSE	3.41 3.48	8.07 8.31	6.15 6.21	55% 56%	42% 42%	76% 75%		1.31 1.34	6.105161 6.109032	6.14 6.15	281.00	204.00	0.73		14,553	10,565			16,236 15,899	15,319 14,368		14,553	10,565		16,236 15,899	15,319 14,368
11/5/2020	FALSE	FALSE	FALSE	3.47	8.06	6.14	57%	43%	76%		1.31	6.109677	6.15					_ ,,				15,899	14,368					15,899	14,368
11/6/2020	FALSE	FALSE	FALSE	3.37	7.65	6.09	55%	44%	80%		1.26	6.108387	6.13									15,899	14,368					15,899	14,368
11/7/2020 11/8/2020	FALSE FALSE	FALSE FALSE	FALSE FALSE	3.44 3.26	8.48 8.80	6.07 6.17	57% 53%	41% 37%	72% 70%		1.40 1.43	6.104516 6.102903	6.12 6.13									16,684 16,684	13,662 13,662					16,684 16,684	13,662 13,662
11/9/2020	FALSE	FALSE	FALSE	3.34	8.26	6.19	54%	40%	75%		1.33	6.102581	6.14									16,684	13,662					16,684	13,662
11/10/2020	FALSE	FALSE	FALSE	3.33	8.10	6.10	55%	41%	75%		1.33	6.103871	6.14									16,684	13,662					16,684	13,662
11/11/2020 11/12/2020	FALSE FALSE	FALSE FALSE	FALSE FALSE	3.38 3.39	8.33 8.24	6.15 6.15	55% 55%	41% 41%	74% 75%		1.35 1.34	6.107419 6.107097	6.14 6.13	172.40	252.00	1.46		8,843	12,925			16,684 15,116	13,662 13,515		8,843	12,925		16,684 15,116	13,662 13,515
11/13/2020	FALSE	FALSE	TRUE	3.46	7.98	6.17	56%	43%	77%		1.29	6.10871	6.14					2,2.10	_,			15,116	13,515		- /5	-,		15,116	13,515
11/14/2020	FALSE	FALSE	FALSE	3.32	8.56	6.06	55%	39%	71%		1.41	6.109355	6.13									14,713	12,700					14,713	
11/15/2020 11/16/2020	FALSE FALSE	FALSE FALSE	FALSE FALSE	3.36 3.39	8.50 8.27	6.15 6.12	55% 55%	40% 41%	72% 74%		1.38 1.35	6.111935 6.115161	6.14 6.14									14,713 14,713	12,700 12,700					14,713 14,713	12,700 12,700
11/17/2020	FALSE	FALSE	TRUE	3.47	8.11	6.28	55%	43%	77%		1.29	6.12871	6.15									14,713	12,700					14,713	12,700
11/18/2020	FALSE	FALSE	FALSE	3.59	8.37	6.29	57%	43%	75%		1.33	6.137742	6.17	166.00	271.00	1.63		8,708	14,216			13,512	13,003		8,708	14,216		13,512	13,003

											Diurnal				Influent		Influent										30-d Avg	30-d Avg 30-d Avg
Date	Butte	CSU	Precip?	Min Influent	Max Influent	Avg Influent		Min % of		Flow Outlier	Peak		7-d Avg of Avg Flow,		BOD	BOD/TSS	NH3-N	Avg Inf TSS Load,	Avg Inf BOD Load, N	Avg Inf NH3 Load,	Load Outlier	30-d Avg of TSS		30-d Avg of NH3-N		non-SN n BOD Load, NH	on-SN of non-SN 3 Load.	of non-SN of non-SN
	Break?	Break?		Flow, mg	d Flow, mgd	Flow, mgd	Avg	Max	Max	Туре	Factor (DPF)	Flow, mgd	mgd	mg/L	Conc., mg/L	Ratio	Conc., mg/L	ppd	ppd	ppd	Туре	Load, ppd	Load, ppd	Load, ppd	ppd	ppd	ppd TSS Load, ppd	BOD Load, NH3-N ppd Load, ppd
11/19/2020	FALSE	FALSE	FALSE	3.48	8.26	6.22	56%	42%	75%		1.33	6.140968	6.18									13,512	13,003				13,512	13,003
11/20/2020 11/21/2020	FALSE	TRUE	FALSE	3.48	7.82	6.09	57%	45% 42%	78%		1.28	6.140323	6.17 6.16									13,512	13,003				13,512	13,003
11/21/2020	FALSE FALSE	TRUE TRUE	FALSE FALSE	3.44 3.33	8.22 8.52	6.04 5.98	57% 56%	42% 39%	73% 70%		1.36 1.42	6.137742 6.134194	6.15									13,512 13,164	13,003 13,156				13,512 13,164	13,003 13,156
11/23/2020	FALSE	TRUE	FALSE	3.45	8.40	6.23	55%	41%	74%		1.35	6.13871	6.16									13,164	13,156				13,164	13,156
11/24/2020 11/25/2020	FALSE TRUE	TRUE TRUE	FALSE FALSE	3.53 3.46	7.95 7.90	6.11 6.08	58% 57%	44% 44%	77% 77%		1.30 1.30	6.141613 6.140968	6.16 6.13	265.90	236.00	0.89		13,550	12,026			13,241 13,241	12,930 12,930		13,550	12,026	13,241 13,241	12,930 12,930
11/25/2020	TRUE	TRUE	FALSE	3.41	8.63	5.85	58%	40%	68%		1.48	6.13129	6.08									13,241	12,930				13,241	12,930
11/27/2020	TRUE	TRUE	FALSE	3.33	7.65	5.57	60%	44%	73%		1.37	6.112903	5.99									13,241	12,930				13,241	12,930
11/28/2020 11/29/2020	TRUE TRUE	TRUE TRUE	FALSE FALSE	3.37 3.27	7.84 8.43	5.69 6.00	59% 55%	43% 39%	73% 71%		1.38 1.41	6.097097 6.090323	5.94 5.94									13,241 11,413	12,930 12,433				13,241 11,413	12,930 12,433
11/30/2020	TRUE	TRUE	FALSE	3.34	8.23	6.04	55%	41%	73%		1.36	6.086452	5.95									11,413	12,433				11,413	12,433
12/1/2020	FALSE	FALSE	FALSE	3.44	8.23	6.10	56%	42%	74%		1.35	6.086774	5.93									11,413	12,433				11,413	12,433
12/2/2020 12/3/2020	FALSE FALSE	FALSE FALSE	FALSE FALSE	3.43 3.39	8.22 8.08	6.05 6.07	57% 56%	42% 42%	74% 75%		1.36 1.33	6.086129 6.084194	5.92 5.92	339.80	298.00	0.88		17,145	15,036			12,560 12,560	12,954 12,954		17,145	15,036	12,560 12,560	12,954 12,954
12/4/2020	FALSE	FALSE	FALSE	3.41	7.77	6.03	57%	44%	78%		1.29	6.080323	5.94									12,560	12,954				12,560	12,954
12/5/2020	FALSE	FALSE	FALSE	3.39	8.27	5.94	57%	41%	72%		1.39	6.071613	5.99									12,061	13,551				12,061	13,551
12/6/2020 12/7/2020	FALSE FALSE	FALSE FALSE	FALSE FALSE	3.31 3.42	8.45 8.14	6.04 6.13	55% 56%	39% 42%	71% 75%		1.40 1.33	6.068387 6.069677	6.03 6.05									12,061 12,061	13,551 13,551				12,061 12,061	13,551 13,551
12/8/2020	FALSE	FALSE	FALSE	3.45	8.15	6.05	57%	42%	74%		1.35	6.069032	6.05									12,061	13,551				12,061	13,551
12/9/2020	FALSE	FALSE	FALSE	3.35	8.02	6.11	55%	42%	76%		1.31	6.067097	6.05	270.00	379.00	1.40		13,758	19,313			12,401	14,703		13,758	19,313	12,401	14,703
12/10/2020 12/11/2020	FALSE FALSE	FALSE FALSE	FALSE TRUE	3.40 3.35	7.92 7.96	6.08 6.05	56% 55%	43% 42%	77% 76%		1.30 1.32	6.063548 6.061935	6.06 6.05									12,401 12,401	14,703 14,703				12,401 12,401	14,703 14,703
12/12/2020	FALSE	FALSE	TRUE	3.42	8.62	6.03	57%	40%	70%		1.43	6.058065	6.05									12,401	14,703				12,401	14,703
12/13/2020	FALSE	FALSE	TRUE	3.41	9.55	6.45	53%	36%	68%		1.48	6.067742	6.12									13,290	15,148				13,290	15,148
12/14/2020 12/15/2020	FALSE FALSE	FALSE FALSE	FALSE TRUE	3.40 3.50	8.24 8.24	6.30 6.21	54% 56%	41% 42%	76% 75%		1.31 1.33	6.071935 6.076774	6.15 6.16									13,290 13,290	15,148 15,148				13,290 13,290	15,148 15,148
12/16/2020	FALSE	FALSE	TRUE	3.51	7.80	4.86	72%	45%	62%	MinAvg	1.60	6.074333	6.18	279.30	381.00	1.36		11,321	15,443			12,896	15,207		11,321	15,443	12,896	15,207
12/17/2020	FALSE	FALSE	TRUE	5.39	8.61	7.71	70%	63%		'gMinMaxA	1.12	6.072759	6.19									12,896	15,207				12,896	15,207
12/18/2020 12/19/2020	FALSE FALSE	TRUE TRUE	FALSE FALSE	3.56 3.52	8.03 8.62	6.43 6.20	55% 57%	44% 41%	80% 72%		1.25 1.39	6.077931 6.074828	6.25 6.27									12,896 13,944	15,207 15,454				12,896 13,944	15,207 15,454
12/20/2020	TRUE	TRUE	FALSE	3.37	8.60	6.11	55%	39%	71%		1.41	6.071034	6.28									13,944	15,454				13,944	15,454
12/21/2020	TRUE	TRUE	FALSE	3.44	8.17	6.11	56%	42%	75%		1.34	6.071724	6.23									13,944	15,454				13,944	15,454
12/22/2020 12/23/2020	TRUE TRUE	TRUE TRUE	FALSE FALSE	3.33 3.42	7.87 7.89	6.05 6.00	55% 57%	42% 43%	77% 76%		1.30 1.32	6.072069 6.072759	6.19 6.15	290.70	262.00	0.90		14,668	13,220			14,088 14,088	15,008 15,008		14,668	13,220	14,088 14,088	15,008 15,008
12/24/2020	TRUE	TRUE	FALSE	3.44	8.47	5.91	58%	41%	70%		1.43	6.061724	6.12									14,088	15,008				14,088	15,008
12/25/2020	TRUE	TRUE	TRUE	3.32	7.17	5.29	63%	46%	74%		1.36	6.033448	6.01									14,223	15,753				14,223	15,753
12/26/2020 12/27/2020	TRUE TRUE	TRUE TRUE	TRUE FALSE	3.35 3.32	7.77 8.20	5.65 5.82	59% 57%	43% 40%	73% 71%		1.38 1.41	6.018621 6.017586	5.92 5.87									14,223 14,223	15,753 15,753				14,223 14,223	15,753 15,753
12/28/2020	TRUE	TRUE	FALSE	3.39	8.10	5.99	57%	42%	74%		1.35	6.032069	5.85									14,223	15,753				14,223	15,753
12/29/2020	TRUE	TRUE	FALSE	3.32	7.64	5.89	56%	43%	77%		1.30	6.038966	5.83									14,223	15,753				14,223	15,753
12/30/2020 12/31/2020	TRUE TRUE	TRUE TRUE	TRUE FALSE	3.39 3.46	7.93 7.93	5.96 5.95	57% 58%	43% 44%	75% 75%		1.33 1.33	6.037586 6.034483	5.81 5.81	300.30	204.00	0.68		14,927	10,140			14,364 14,364	14,630 14,630		14,927	10,140	14,364 14,364	14,630 14,630
1/1/2021	TRUE	TRUE	FALSE	3.43	7.73	5.59	61%	44%	72%		1.38	6.016897	5.77									14,364	14,630				14,364	14,630
1/2/2021	TRUE	TRUE	TRUE	3.32	8.02	5.72	58%	41%	71%		1.40	6.005517	5.82									13,668	14,529				13,668	14,529
1/3/2021 1/4/2021	TRUE TRUE	TRUE TRUE	TRUE TRUE	3.33 3.48	8.58 8.54	6.01 6.43	55% 54%	39% 41%	70% 75%		1.43 1.33	6.003448 6.017241	5.87 5.94									13,668 13,668	14,529 14,529				13,668 13,668	14,529 14,529
1/5/2021	TRUE	TRUE	FALSE	3.59	8.36	6.27	57%	43%	75%		1.33	6.028621	5.98	237.90	265.00	1.11		12,440	13,857			13,423	14,395		12,440	13,857	13,423	14,395
1/6/2021	TRUE	TRUE	TRUE	3.52	8.15	6.24	56%	43%	77%		1.31	6.035517	6.02									13,423	14,395				13,423	14,395
1/7/2021 1/8/2021	TRUE TRUE	TRUE TRUE	FALSE TRUE	3.39 3.55	8.16 7.95	6.19 6.06	55% 59%	42% 45%	76% 76%		1.32 1.31	6.037586 6.037931	6.05 6.06									13,423 13,423	14,395 14,395				13,423 13,423	14,395 14,395
1/9/2021	TRUE	TRUE	FALSE	3.38	8.31	6.02	56%	41%	72%		1.38	6.034828	6.12									13,339	13,165				13,339	13,165
1/10/2021	TRUE	TRUE	FALSE	3.35	8.40	6.06	55%	40%	72%		1.39	6.034138	6.16									13,339	13,165				13,339	13,165
1/11/2021 1/12/2021	TRUE TRUE	TRUE TRUE	FALSE FALSE	3.39 3.44	8.13 8.01	6.07 6.04	56% 57%	42% 43%	75% 75%		1.34 1.33	6.034828 6.035172	6.17 6.12									13,339 13,339	13,165 13,165				13,339 13,339	13,165 13,165
1/13/2021	TRUE	TRUE	FALSE	3.44	8.15	6.04	57%	42%	74%		1.35	6.021034	6.09	310.80	195.00	0.63		15,656	9,823			13,802	12,497		15,656	9,823	13,802	12,497
1/14/2021	TRUE	TRUE	FALSE	3.47	8.10	6.02	58%	43%	74%		1.35	6.011379	6.06									13,802	12,497				13,802	12,497
1/15/2021 1/16/2021	TRUE TRUE	TRUE TRUE	FALSE FALSE	3.40 3.38	7.78 7.95	5.96 5.87	57% 58%	44% 43%	77% 74%		1.31 1.35	6.002759 5.998333	6.03 6.01									13,802 14,423	12,497 11,760				13,802 14,423	12,497 11,760
1/17/2021	TRUE	TRUE	FALSE	3.31	8.13	5.87	56%	41%	72%		1.39	5.994194	5.99									14,423	11,760				14,423	11,760
1/18/2021	TRUE	TRUE	FALSE	3.40	8.24	6.10	56%	41%	74%		1.35	5.983548	6.00									14,423	11,760				14,423	11,760
1/19/2021 1/20/2021	TRUE TRUE	TRUE TRUE	FALSE FALSE	3.34 3.42	8.20 8.24	6.02 5.95	55% 57%	41% 42%	73% 72%		1.36 1.38	5.977742 5.972581	5.99 5.98	253.40	253.00	1.00		12,574	12,555			14,423 14,053	11,760 11,919		12,574	12,555	14,423 14,053	11,760 11,919

				Min	Max	Avg				Flow	Diurnal	30-d Avg	7-d Ave of	Influent	Influent		Influent	Avg Inf	Avg Inf	Avg Inf	Load	30-d Avg	30-d Avg	30-d Avg	non-SN	non-SN	non-SN	30-d Avg	30-d Avg 30-d Avg
Date	Butte Break?	CSU Break?	Precip?	Influent	Influent	Influent	Δνσ	Min % of Max	Avg % of Max	Outlier	Peak Factor			TSS Conc.,	BOD Conc.,	BOD/TSS Ratio	NH3-N Conc.,			NH3 Load,	Outlier	of TSS		of NH3-N			NH3 Load.		of non-SN of non-SN BOD Load, NH3-N
				Flow, mgd	I Flow, mgd	Flow, mgd	,			Type	(DPF)	Flow, mgd	mgd	mg/L	mg/L		mg/L	ppd	ppd	ppd	Туре	Load, ppd	Load, ppd	Load, ppd	ppd	ppd	ppd	ppd	ppd Load, ppd
1/21/2021	TRUE	TRUE	FALSE	3.44	8.04	6.04	57%	43%	75%		1.33	5.970323	5.98									14,053	11,919					14,053	11,919
1/22/2021 1/23/2021	TRUE TRUE	TRUE TRUE	TRUE FALSE	3.47 3.38	7.86 8.12	6.05 5.91	57% 57%	44% 42%	77% 73%		1.30 1.37	5.970323 5.967419	5.98 5.98									13,899 13,899	11,594 11,594					13,899 13,899	11,594 11,594
1/24/2021	TRUE	TRUE	TRUE	3.32	8.79	6.16	54%	38%	70%		1.43	5.975484	6.01									13,899	11,594					13,899	11,594
1/25/2021	TRUE	TRUE	TRUE	3.32	8.32	6.19	54%	40%	74%		1.34	6.004516	6.05									13,899	11,594					13,899	11,594
1/26/2021 1/27/2021	FALSE FALSE	FALSE FALSE	TRUE TRUE	3.44 4.05	8.54 9.57	6.25 7.19	55% 56%	40% 42%	73% 75%		1.37 1.33	6.023871 6.068065	6.07 6.22	284.60	214.00	0.75		17,066	12,832			13,899 14,533	11,594 11,841		17,066	12,832		13,899 14,533	11,594 11,841
1/28/2021	FALSE	FALSE	TRUE	5.06	10.68	8.23	61%	47%	77%		1.30	6.140323	6.50	2000	2200	0.75		17,000	12,002			14,533	11,841		27,000	12,002		14,533	11,841
1/29/2021	FALSE	FALSE	TRUE	4.77	10.23	7.92	60%	47%	77%		1.29	6.205806	6.74									14,533	11,841					14,533	11,841
1/30/2021 1/31/2021	FALSE FALSE	FALSE FALSE	FALSE FALSE	4.11 3.68	9.39 9.16	7.10 6.82	58% 54%	44% 40%	76% 74%		1.32 1.34	6.242581 6.270645	6.87 6.98									14,434 14,434	12,267 12,267					14,434 14,434	12,267 12,267
2/1/2021	FALSE	FALSE	TRUE	3.74	9.47	6.75	55%	39%	71%		1.40	6.308065	7.06									14,434	12,267					14,434	12,267
2/2/2021	FALSE	FALSE	TRUE	4.62	9.80	7.67	60%	47%	78%		1.28	6.370968	7.24	218.40	337.00	1.54		13,971	21,557			14,341	14,125		13,971	21,557		14,341	14,125
2/3/2021 2/4/2021	FALSE FALSE	FALSE FALSE	FALSE FALSE	4.08 3.80	9.41 8.92	7.22 6.82	57% 56%	43% 43%	77% 76%		1.30 1.31	6.41 6.422581	7.36 7.32									14,341 14,341	14,125 14,125					14,341 14,341	14,125 14,125
2/5/2021	FALSE	FALSE	FALSE	3.81	8.60	6.55	58%	44%	76%		1.31	6.431613	7.11									14,817	14,192					14,817	14,192
2/6/2021	FALSE	FALSE	FALSE	3.73	8.58	6.47	58%	43%	75%		1.33	6.439032	6.93									14,817	14,192					14,817	14,192
2/7/2021	FALSE	FALSE	FALSE	3.52	8.83	6.34	56%	40%	72%		1.39	6.443871	6.83									14,817	14,192					14,817	14,192
2/8/2021 2/9/2021	FALSE FALSE	FALSE FALSE	FALSE FALSE	3.53 3.52	8.51 8.47	6.37 6.25	55% 56%	41% 42%	75% 74%		1.34 1.36	6.453871 6.46129	6.77 6.71	218.40	363.00	1.66		11,384	18,921			14,817 14,130	14,192 15,138		11,384	18,921		14,817 14,130	14,192 15,138
2/10/2021	FALSE	FALSE	FALSE	3.57	8.35	6.25	57%	43%	75%		1.34	6.467419	6.53					,	-,-			14,130	15,138		,	-7-		14,130	15,138
2/11/2021	FALSE	FALSE	TRUE	3.57	8.71	6.48	55%	41%	74%		1.34	6.480645	6.44									14,130	15,138					14,130	15,138
2/12/2021 2/13/2021	FALSE FALSE	FALSE FALSE	TRUE TRUE	3.85 3.75	8.41 9.07	6.62 6.61	58% 57%	46% 41%	79% 73%		1.27 1.37	6.499355 6.517742	6.42 6.42									14,130 13,749	15,138 16,466					14,130 13,749	15,138 16,466
2/14/2021	FALSE	FALSE	FALSE	3.56	9.05	6.49	55%	39%	72%		1.39	6.532903	6.43									13,749	16,466					13,749	16,466
2/15/2021	FALSE	FALSE	TRUE	3.63	9.20	6.72	54%	39%	73%		1.37	6.557419	6.47									13,749	16,466					13,749	16,466
2/16/2021 2/17/2021	FALSE FALSE	FALSE FALSE	FALSE FALSE	3.72 3.62	8.77 8.74	6.64 6.46	56% 56%	42% 41%	76% 74%		1.32	6.582258 6.60129	6.51	245.40	224.00	0.01		12 221	12.069			13,749	16,466		12 221	12,068		13,749	16,466
2/17/2021 2/18/2021	FALSE	FALSE	FALSE	3.62	8.37	6.44	56%	41%	74%		1.35 1.30	6.612258	6.53 6.56	245.40	224.00	0.91		13,221	12,068			13,643 13,643	15,587 15,587		13,221	12,000		13,643 13,643	15,587 15,587
2/19/2021	FALSE	FALSE	TRUE	3.59	8.24	6.37	56%	44%	77%		1.29	6.623548	6.54									13,643	15,587					13,643	15,587
2/20/2021	FALSE	FALSE	FALSE	3.51	8.35	6.17	57%	42%	74%		1.35	6.630645	6.49									13,910	16,345					13,910	16,345
2/21/2021 2/22/2021	FALSE FALSE	FALSE FALSE	FALSE FALSE	3.36 3.49	8.47 8.44	6.23 6.21	54% 56%	40% 41%	74% 74%		1.36 1.36	6.636774 6.641935	6.44 6.41									13,910 13,910	16,345 16,345					13,910 13,910	16,345 16,345
2/23/2021	FALSE	FALSE	FALSE	3.46	8.64	6.18	56%	40%	72%		1.40	6.650645	6.34	266.00	347.00	1.30		13,710	17,885			13,870	16,653		13,710	17,885		13,870	16,653
2/24/2021	FALSE	FALSE	FALSE	3.45	8.59	6.20	56%	40%	72%		1.39	6.651935	6.28									13,870	16,653					13,870	16,653
2/25/2021 2/26/2021	FALSE FALSE	FALSE FALSE	FALSE FALSE	3.36 3.40	8.36 8.16	6.13 6.08	55% 56%	40% 42%	73% 75%		1.36 1.34	6.65 6.644516	6.24									13,870 13,870	16,653 16,653					13,870 13,870	16,653 16,653
2/27/2021	FALSE	FALSE	FALSE	3.40	8.13	5.92	55%	40%	73%		1.37	6.603548	6.14									13,071	17,608					13,071	17,608
2/28/2021	FALSE	FALSE	FALSE	3.25	8.50	6.04	54%	38%	71%		1.41	6.532903	6.12									13,071	17,608					13,071	17,608
3/1/2021	FALSE	FALSE	FALSE	3.36	8.39	6.09	55%	40%	73%		1.38	6.473871	6.11	224.00	200.00	0.00		16 204	12.075			13,071	17,608		16 204	12.075		13,071	17,608
3/2/2021 3/3/2021	FALSE FALSE	FALSE FALSE	FALSE FALSE	3.41 3.46	8.41 8.40	6.03 6.13	57% 56%	41% 41%	72% 73%		1.39 1.37	6.439355 6.417097	6.08 6.08	324.00	260.00	0.80		16,294	13,075			13,716 13,716	16,701 16,701		16,294	13,075		13,716 13,716	16,701 16,701
3/4/2021	FALSE	FALSE	FALSE	3.44	8.24	6.10	56%	42%	74%		1.35	6.396129	6.07									13,716	16,701					13,716	16,701
3/5/2021	FALSE	FALSE	FALSE	3.44	8.24	6.10	56%	42%	74%		1.35	6.345484	6.06									13,652	15,487					13,652	15,487
3/6/2021 3/7/2021	FALSE FALSE	FALSE FALSE	TRUE FALSE	3.52 3.29	8.29 8.39	6.08 6.10	58% 54%	42% 39%	73% 73%		1.36 1.38	6.30871 6.285484	6.06									13,652 13,652	15,487 15,487					13,652 13,652	15,487 15,487
3/8/2021	FALSE	FALSE	FALSE	3.46	8.18	6.18	56%	42%	76%		1.32	6.273548	6.10									13,652	15,487					13,652	15,487
3/9/2021	FALSE	FALSE	TRUE	3.44	8.35	6.20	55%	41%	74%		1.35	6.264839	6.12	249.20	477.00	1.91		12,886	24,665			13,499	17,323		12,886	24,665		13,499	17,323
3/10/2021 3/11/2021	FALSE FALSE	FALSE FALSE	TRUE FALSE	3.52 3.45	8.50 8.40	6.52 6.27	54% 55%	41% 41%	77% 75%		1.30 1.34	6.270645 6.267419	6.18 6.19									13,499 13,499	17,323 17,323					13,499 13,499	17,323 17,323
3/11/2021	TRUE	TRUE	FALSE	3.52	8.18	6.14	57%	43%	75%		1.33	6.263871	6.20									14,028	16,923					14,028	16,923
3/13/2021	TRUE	TRUE	FALSE	3.45	8.14	5.91	58%	42%	73%		1.38	6.252903	6.18									14,028	16,923					14,028	16,923
3/14/2021	TRUE	TRUE	TRUE	3.34	8.62	6.10	55%	39%	71%		1.41	6.240645	6.18									14,028	16,923					14,028	16,923
3/15/2021 3/16/2021	TRUE TRUE	TRUE TRUE	TRUE FALSE	3.82 3.80	8.64 8.53	6.71 6.42	57% 59%	44% 45%	78% 75%		1.29 1.33	6.243548 6.237419	6.25 6.28	246.50	285.00	1.16		13,198	15,260			14,028 13,862	16,923 16,591		13,198	15,260		14,028 13,862	16,923 16,591
3/17/2021	TRUE	TRUE	FALSE	3.79	8.19	6.26	61%	46%	76%		1.31	6.23	6.29					-,-50	-,			13,862	16,591		-,=50	-,=30		13,862	16,591
3/18/2021	TRUE	TRUE	TRUE	3.69	9.58	6.87	54%	39%	72%		1.39	6.234839	6.34									13,862	16,591					13,862	16,591
3/19/2021 3/20/2021	TRUE TRUE	TRUE TRUE	FALSE TRUE	4.57 4.11	9.52 8.86	7.47 6.80	61% 60%	48% 46%	78% 77%		1.27 1.30	6.261613 6.272581	6.49 6.57									13,862 14,022	16,591 17,721					13,862 14,022	16,591 17,721
3/20/2021	TRUE	TRUE	FALSE	3.60	9.07	6.63	54%	40%	73%		1.37	6.27871	6.66									14,022	17,721					14,022	17,721
3/22/2021	TRUE	TRUE	TRUE	3.76	8.99	6.74	56%	42%	75%		1.33	6.290645	6.74									14,022	17,721					14,022	17,721
3/23/2021	FALSE	FALSE	FALSE	3.68	8.83	6.59	56%	42%	75% 74%		1.34	6.304194	6.72	281.70	279.00	0.99		15,482	15,334			14,314	17,244		15,482	15,334		14,314	17,244
3/24/2021	FALSE	FALSE	FALSE	3.63	8.84	6.56	55%	41%	74%		1.35	6.314839	6.74									14,314	17,244					14,314	11,444

											Diurnal				Influent		Influent									20.6	Ανα	30-d Avg 30-d Avg
Date	Butte	CSU	Precip?	Min Influent	Max Influent	Avg Influent	Min % of	Min % of	Avg % of	Flow Outlier	Peak		7-d Avg of Avg Flow,		BOD	BOD/TSS	Influent NH3-N	Avg Inf TSS Load.	Avg Inf BOD Load,	Avg Inf NH3 Load.	Load Outlier	30-d Avg of TSS			non-SN BOD Load, N	non-SN NH3 Load.	n-SN o	of non-SN of non-SN
	Break?	Break?				d Flow, mgd	Avg	Max	Max	Туре	Factor (DPF)	Flow, mgd		mg/L	Conc., mg/L	Ratio	Conc., mg/L	ppd	ppd	ppd	Туре		Load, ppd		ppd	ppd TSS	oad, B d	BOD Load, NH3-N ppd Load, ppd
3/25/2021	FALSE	FALSE	FALSE	3.67	8.74	6.49	57%	42%	74%		1.35	6.323871	6.77									14,314	17,244			14,		17,244
3/26/2021 3/27/2021	FALSE FALSE	FALSE FALSE	FALSE FALSE	3.55 3.63	8.57 8.52	6.28 6.17	57% 59%	41% 43%	73% 72%		1.36 1.38	6.327097 6.326129	6.70 6.53									14,465 14,465	17,083 17,083					17,083 17,083
3/28/2021	FALSE	FALSE	FALSE	3.45	8.40	6.13	56%	41%	73%		1.37	6.326129	6.45									14,465	17,083					17,083
3/29/2021	FALSE	FALSE	FALSE	3.58	8.36	6.30	57%	43%	75%		1.33	6.333226	6.41									14,465	17,083					17,083
3/30/2021 3/31/2021	FALSE FALSE	FALSE FALSE	FALSE FALSE	3.42 3.65	8.38 8.27	6.17 6.20	55% 59%	41% 44%	74% 75%		1.36 1.33	6.34129 6.346452	6.34 6.29	351.40	270.00	0.77		18,082	13,894			15,189 15,189	16,445 16,445	18,082	13,894			16,445 16,445
4/1/2021	FALSE	FALSE	FALSE	3.48	8.24	6.10	57%	42%	74%		1.35	6.346774	6.23									15,189	16,445					16,445
4/2/2021	FALSE	FALSE	FALSE	3.53	8.00	6.17	57%	44%	77%		1.30	6.35129	6.19									14,912	17,288					17,288
4/3/2021 4/4/2021	FALSE FALSE	FALSE FALSE	FALSE FALSE	3.53 3.31	8.16 8.34	6.00 5.91	59% 56%	43% 40%	74% 71%		1.36 1.41	6.347097 6.340968	6.16 6.12									14,912 14,912	17,288 17,288					17,288 17,288
4/5/2021	FALSE	FALSE	FALSE	3.40	8.37	6.07	56%	41%	73%		1.38	6.34	6.12									14,912	17,288					17,288
4/6/2021	FALSE	FALSE	FALSE	3.45	8.24	6.11	56%	42%	74%		1.35	6.340968	6.09									14,912	17,288			14,	912	17,288
4/7/2021 4/8/2021	FALSE FALSE	FALSE FALSE	FALSE FALSE	3.54 3.46	8.30 8.26	6.14 6.13	58% 56%	43% 42%	74% 74%		1.35 1.35	6.342258 6.340645	6.09 6.08	110.40	549.00	4.97		5,653	28,113			13,060 13,060	19,453 19,453	5,653	28,113			19,453 19,453
4/9/2021	FALSE	FALSE	FALSE	3.59	8.00	6.10	59%	45%	76%		1.33	6.337419	6.08									13,104	18,150					18,150
4/10/2021	FALSE	FALSE	FALSE	3.54	8.12	5.94	60%	44%	73%		1.37	6.31871	6.05									13,104	18,150					18,150
4/11/2021	FALSE	FALSE	FALSE	3.43	8.23	6.00	57%	42%	73%		1.37	6.31	6.05									13,104	18,150					18,150
4/12/2021 4/13/2021	FALSE FALSE	FALSE FALSE	FALSE FALSE	3.55 3.51	8.22 8.25	6.09 6.08	58% 58%	43% 43%	74% 74%		1.35 1.36	6.308387 6.313871	6.07 6.07	317.90	256.00	0.81		16,120	12,981			13,104 13,707	18,150 17,116	16,120	12,981			18,150 17,116
4/14/2021	FALSE	FALSE	FALSE	3.45	8.31	6.10	57%	42%	73%		1.36	6.313871	6.07									13,707	17,116					17,116
4/15/2021	FALSE	FALSE	FALSE	3.61	8.26	6.11	59%	44%	74%		1.35	6.294516	6.07									13,707	17,116					17,116
4/16/2021 4/17/2021	FALSE FALSE	FALSE FALSE	FALSE FALSE	3.54 3.48	7.98 7.90	6.07 5.88	58% 59%	44% 44%	76% 74%		1.31 1.34	6.283226 6.270968	6.06 6.03									13,834 13,834	17,580 17,580					17,580 17,580
4/18/2021	FALSE	FALSE	FALSE	3.37	8.16	5.90	57%	41%	72%		1.38	6.239677	6.03									13,834	17,580					17,580
4/19/2021	FALSE	FALSE	FALSE	3.53	8.00	6.04	58%	44%	76%		1.32	6.193548	6.03									13,834	17,580					17,580
4/20/2021 4/21/2021	FALSE FALSE	FALSE FALSE	FALSE FALSE	3.50 3.64	8.07 8.15	5.99 6.13	58% 59%	43% 45%	74% 75%		1.35 1.33	6.167419 6.15129	6.02 6.03	301.20	238.00	0.79		15,047	11,890			14,077 14,077	16,442 16,442	15,047	11,890			16,442 16,442
4/22/2021	FALSE	FALSE	FALSE	3.72	8.19	6.16	60%	45%	75%		1.33	6.132581	6.04									14,077	16,442					16,442
4/23/2021	FALSE	FALSE	FALSE	3.47	7.75	6.05	57%	45%	78%		1.28	6.115161	6.03									13,726	16,719					16,719
4/24/2021 4/25/2021	FALSE FALSE	FALSE FALSE	FALSE TRUE	3.55 3.48	7.96 8.51	5.97 6.18	59% 56%	45% 41%	75% 73%		1.33 1.38	6.096129 6.086129	6.02 6.05									13,726 13,726	16,719 16,719					16,719 16,719
4/26/2021	FALSE	FALSE	FALSE	3.48	8.18	6.21	56%	43%	76%		1.32	6.083871	6.09									13,726	16,719					16,719
4/27/2021	FALSE	FALSE	FALSE	3.42	8.14	6.07	56%	42%	75%		1.34	6.080645	6.10	348.10	260.00	0.75		17,622	13,162			14,505	16,008	17,622	13,162	14,	505	16,008
4/28/2021 4/29/2021	FALSE FALSE	FALSE FALSE	FALSE FALSE	3.59 3.67	8.16 7.98	6.02 6.00	60% 61%	44% 46%	74% 75%		1.36 1.33	6.077097 6.067419	6.10 6.08									14,505 14,505	16,008 16,008					16,008 16,008
4/30/2021	FALSE	FALSE	FALSE	3.62	7.75	6.04	60%	47%	78%		1.28	6.063226	6.07									13,611	16,536					16,536
5/1/2021	FALSE	FALSE	FALSE	0.00	0.00	0.00						5.863226	5.31									13,611	16,536				611	16,536
5/2/2021 5/3/2021	FALSE	FALSE FALSE	FALSE FALSE	0.00	0.00	0.00						5.666452 5.467419	4.57 3.79									13,611	16,536 16,536					16,536 16,536
5/4/2021	FALSE FALSE	FALSE	FALSE	0.00	0.00	0.00						5.273871	3.02									13,611 13,611	16,536					16,536
5/5/2021	FALSE	FALSE	FALSE	0.00	0.00	0.00						5.083226	2.26									13,611	16,536			13,	611	16,536
5/6/2021	FALSE	FALSE	FALSE	0.00	0.00	0.00						4.887419	1.51									13,611	16,536					16,536
5/7/2021 5/8/2021	FALSE FALSE	FALSE FALSE	FALSE FALSE	0.00	0.00	0.00						4.690323 4.492258	0.76 0.00									13,611 16,263	16,536 12,678					16,536 12,678
5/9/2021	FALSE	FALSE	FALSE	0.00	0.00	0.00						4.294516	0.00									16,263	12,678					12,678
5/10/2021	FALSE	FALSE	FALSE	0.00	0.00	0.00						4.097742	0.00									16,263	12,678					12,678
5/11/2021 5/12/2021	FALSE FALSE	FALSE FALSE	FALSE FALSE	0.00	0.00	0.00						3.906129 3.712581	0.00									16,263 16,263	12,678 12,678					12,678 12,678
5/13/2021	FALSE	FALSE	FALSE	0.00	0.00	0.00						3.516129	0.00									16,263	12,678					12,678
5/14/2021	FALSE	FALSE	FALSE	0.00	0.00	0.00						3.32	0.00									16,335	12,526					12,526
5/15/2021 5/16/2021	FALSE FALSE	FALSE FALSE	FALSE FALSE	0.00	0.00	0.00						3.123226 2.926129	0.00									16,335 16,335	12,526 12,526					12,526 12,526
5/17/2021	FALSE	FALSE	FALSE	0.00	0.00	0.00						2.730323	0.00									16,335	12,526					12,526
5/18/2021	FALSE	FALSE	FALSE	0.00	0.00	0.00						2.540645	0.00									16,335	12,526					12,526
5/19/2021 5/20/2021	FALSE FALSE	FALSE FALSE	FALSE FALSE	0.00	0.00	0.00						2.350323 2.155484	0.00									16,335 16,335	12,526 12,526					12,526 12,526
5/21/2021	FALSE	TRUE	FALSE	0.00	0.00	0.00						1.962258	0.00									17,622	13,162					13,162
5/22/2021	FALSE	TRUE	FALSE	0.00	0.00	0.00						1.764516	0.00									17,622	13,162					13,162
5/23/2021 5/24/2021	FALSE FALSE	TRUE TRUE	FALSE FALSE	0.00	0.00	0.00						1.565806 1.370645	0.00									17,622 17,622	13,162 13,162					13,162 13,162
5/25/2021	FALSE	TRUE	FALSE	0.00	0.00	0.00						1.178065	0.00									17,622	13,162					13,162
5/26/2021	FALSE	TRUE	FALSE	0.00	0.00	0.00						0.97871	0.00									17,622						13,162

Exhibit 4 - Regionalization Planning Report

Date	Butte Break?	CSU Break?	Precip?	Min Influent Flow, mgd	Max Influent Flow, mgd	Avg Influent I Flow, mgd	Min % of Avg	Min % of Max	Avg % of Max	Flow Outlier Type	Diurnal Peak Factor (DPF)	30-d Avg of Avg Flow, mgd	7-d Avg of Avg Flow, mgd	Influent TSS Conc., mg/L	Influent BOD Conc., mg/L	BOD/TSS Ratio	Influent NH3-N Conc., mg/L	Avg Inf TSS Load, ppd	Avg Inf BOD Load, ppd	Avg Inf NH3 Load, ppd	Load Outlier Type	30-d Avg of TSS Load, ppd	30-d Avg of BOD Load, ppd	30-d Avg of NH3-N Load, ppd	non-SN TSS Load, ppd	non-SN BOD Load, ppd	non-SN NH3 Load, (30-d Avg of non-SN o TSS Load, E ppd	30-d Avg of non-SN 3OD Load, ppd	30-d Avg of non-SN NH3-N Load, ppd
5/27/2021	FALSE	TRUE	FALSE	0.00	0.00	0.00						0.778387	0.00									17,622	13,162					17,622	13,162	
5/28/2021	TRUE	TRUE	FALSE	0.00	0.00	0.00						0.582581	0.00									#DIV/0!	#DIV/0!					#DIV/0!	#DIV/0!	
5/29/2021	TRUE	TRUE	FALSE	0.00	0.00	0.00						0.388387	0.00									#DIV/0!	#DIV/0!					#DIV/0!	#DIV/0!	
5/30/2021	TRUE	TRUE	FALSE	0.00	0.00	0.00						0.194839	0.00									#DIV/0!	#DIV/0!					#DIV/0!	#DIV/0!	
5/31/2021	TRUE	TRUE	FALSE	0.00	0.00	0.00						0	0.00									#DIV/0!	#DIV/0!					#DIV/0!	#DIV/0!	

INSURANCE REQUIREMENTS

Town shall comply with the following insurance requirements unless the City specifically approves a deviation in writing:

- 1. Prior to the commencement of any construction work for the Project, Town shall procure and maintain in force the following coverages through the term of the IMA and provide the City with the appropriate certificate of insurance/memorandum of coverage and related documents.
- **1.1 Commercial General Liability Insurance.** A commercial general liability insurance or equivalent with limits not less than:

1.1.1 Each Occurrence: \$5,000,000

1.1.2 General Aggregate: \$5,000,000

1.1.3 Products/Completed Operations Aggregate: \$5,000,000

1.1.4 Personal Injury: \$5,000,000

Town may utilize an excess liability policy (following form coverage) to meet the required limits of coverage. Insurance deductibles greater than [\$25,000] must be declared on the certificate of insurance and are subject to approval by the City.

The City must be named as an additional insured party. Additional insured endorsement ISO Form CG2010 11 85 or equivalent form must be attached to the certificate of insurance evidencing completed operations coverage in order to be valid.

The policy or coverage must contain a waiver of subrogation in favor of all additional insureds. Any waiver of subrogation must be endorsed by the contractor's general liability insurance company on ISO Form CG 24 04 10/93 "Waiver of Transfer of Rights of Recovery Against Others to Us" or its equivalent.

Coverage afforded must be primary and non-contributing with any other insurance coverage maintained by the additional insured parties and the policy must provide for severability of interests. The severability of interest clause must state: "the term 'insured' is hereby used severally and not collectively, but the inclusion herein of more than one insured shall not operate to increase the limits of the insurer's liability."

- **1.2 Automobile Liability.** A policy of automobile liability insurance having a combined single limit of at least \$1,000,000. The policy must name the City as an additional insured party. Coverage must provide for the loading and unloading of vehicles and liabilities arising out of the use of hired and/or non-owned vehicles.
- **1.3 Workers' Compensation.** Workers compensation insurance as required by applicable state law for employees engaged in work at any job site or operation. The policy must provide a waiver of subrogation in favor of the City. Such waiver of subrogation must be

endorsed by the workers compensation insurance company. In addition, employers liability insurance must be provided in amounts not less than:

- 1.3.1 \$1,000,000 Each Accident for Bodily Injury by Accident
- 1.3.2 \$1,000,000 Policy Limit for Bodily Injury by Disease
- 1.3.3 \$1,000,000 Each Employee for Bodily Injury by Disease
- **1.4 Pollution Liability.** Pollution/environmental liability insurance with limits of \$2,000,000 covering liability arising from the sudden and accidental release of pollution on or near the sites of the Project or Regional Facilities.
- **2.** Town shall provide proof of insurance to the City.
- 2.1 Commencing with the construction work. Insurance may be satisfied by the contractor.
 - 2.2 The certificate of insurance for the City will be made to:

Certificate Holder:

Address:

- 3. Town must maintain the required insurance continuously during the effectiveness of this Agreement. However, Town's liabilities under this Agreement are not limited in any manner to the insurance coverage required. Insurance is to be maintained with insurers having at least an A-VII or greater policyholder's rating in accordance with the current A. M. Best Rating Guide, or equivalent insurer rating service. In addition, any and all insurers must be authorized to conduct business in the State of California.
- **4.** Each required insurance policy must be endorsed to state that coverage will not be suspended, voided, cancelled, reduced in coverage or limits except after a 30 day prior written notice, 10 days for non-payment of premium, has been submitted to the City.
- 5. Town is responsible to pay the insurance deductibles required by its policies. If the City directs Town to pay the insurance deductible, Town shall do so promptly and in accordance with policy requirements.
- 6. Town's contractors shall provide equivalent coverage. Any waiver of subrogation must be endorsed by the contractor's general liability insurance company on ISO Form CG 24 04 10/93 "Waiver of Transfer of Rights of Recovery Against Others to Us" or its equivalent. Coverage must provide for the loading and unloading of vehicles and liabilities arising out of the use of hired and/or non-owned vehicles.

Town of Paradise



Council Agenda Summary

Date: February 14, 2023

ORIGINATED BY: Scott Huber, Town Attorney
REVIEWED BY: Kevin Phillips, Town Manager

SUBJECT: Consider the Creation of the Legislative Committee, a

Standing Committee of the Town Council

Agenda Item: 6(e)

LONG TERM No. RECOVERY PLAN:

COUNCIL ACTION REQUESTED:

Upon conclusion of public discussion of this agenda item:

- 1. Consider establishing a standing committee of the Town Council entitled "Legislative Committee" and appoint two members of the Council to the serve on the committee, including setting policies and priorities of the committee; or,
- 2. Provide an alternative directive to Town staff.

Background:

At the request of Council Member Tryon, and with the concurrence of other members of the Council, this matter is placed on the agenda for consideration to establishing a committee to track legislation of impact on the Town and to interact with state and federal legislators related to legislation and administrative regulations.

Analysis:

At the January 10, 2023 Town Council Meeting, Council Member Tryon requested the Council to consider the creation of a Legislative Committee. The purpose of a Legislative Committee would be to track state and federal legislation and administrative regulation that have an impact on the Town. Further, the Committee would be tasked with representing the Town before legislative and regulatory bodies to work with elected and appointed officials to make recommendations on legislative advocacy issues that benefit the Town and its residents.

If established, the Legislative Committee members would regularly report to the Council regarding state and federal legislation that may impact the Town and seek direction from the Town Council as to what position they should take when interacting with elected and appointed officials.

Upon establishment of the Legislative Committee, the Town Council should appoint one or two members of the Council to serve on the Legislative Committee. In addition, the Town Manager should be assigned the task of interacting with the Committee.

Financial Impact:

None at this time. In the future, there may be certain travel expenses incurred with Committee member travel to meet with state and federal legislators and administrative regulatory bodies.

Town of Paradise



Council Agenda Summary

Agenda Item: 6(f)

Date: February 14, 2023

ORIGINATED BY: Ross Gilb, Finance Director / Town Treasurer

REVIEWED BY: Kevin Phillips, Town Manager

SUBJECT: FY 2022-23 Operating and Capital Budget Update

COUNCIL ACTION REQUESTED:

- 1. Review and file the financial information provided by staff concerning the FY 2022-23 operating and capital budgets; and
- 2. Approve position control from 1.0 to 0.9 FTE for the Senior Accountant position; and
- 3. Approve position control from 0.6 to 0.9 FTE for the Administrative Assistant (Public Works) position; and
- 4. Approve the job classification of Engineering Intern and add this new position to the salary pay plan and position control; and
- 5. Approve the job classification of Accounting Analyst and add this new position to the salary pay plan and position control; and
- Adopt Resolution No. 23-___, A Resolution of the Town Council of the Town of Paradise, California adopting the amended Salary Pay Plan for Town of Paradise Employees for the Fiscal Year 2022-2023; and
- 7. Approve staff recommended budget adjustments.

Background:

The fiscal year (FY) 2022-23 operating and capital budgets were adopted July 12, 2022. The General Fund was adopted with a balanced budget, which was achieved through a transfer from the PG&E Settlement funds to compensate for revenue shortfalls resulting from the 2018 Camp Fire. During the September 13, September 15, and October 11, 2022 Town Council Meetings, Council approved additional expenditures relating to the restoration of dispatch services project (CIP #7324), the Category 4 Tree Removal program (CIP #7312), various capital projects relating to CDBG-DR Infrastructure funding, and additional public works department positions. Further adjustments to the amended operating and capital budgets were adopted by Council during the November 7, 2022 regularly scheduled Council meeting, based on recommendations resulting from detailed analysis of financial activity occurring during the first four months of the fiscal year.

Currently, about seven months of transactions have been recorded for the current fiscal year. Revenues and expenditures from the beginning of FY 2022-23 through the end of January 2023 have been recorded and reviewed in preparation of the analysis below. Staff will continue to closely monitor costs and prepare recommended budget updates regularly to keep the Town Council and community apprised of any significant changes.

Analysis:

A complete budget performance report is attached for detail review, which contains unaudited actual figures for FY 2021-22, the adopted budget for FY 2022-23, the currently amended budget for FY 2022-23 including amendments approved by Council during meetings from the beginning of the fiscal year through January 10, 2023, actual revenues and expenditures to date, proposed budget amendments by general ledger account, and the proposed amended budget for FY 2022-23. The most significant developments are described in detail for each major fund below. Additionally, all recommended budget adjustments have been summarized in the attached Adjustment Summary document as well as listed in detail for each fund affected in the attached Budget Worksheet Report.

Staffing Update

Public Works

Administrative Assistant

- Public works staff has identified the need to increase the hours for this position from 24 to 36 per week. The increase in hours will provide better coverage for the department as well as better support for grant reimbursement processes.
- The increase in hours for this position would change the position status from part time to full time. The total financial impact of this change is expected to be approximately \$18,500 for an entire fiscal year. The financial impact for the current fiscal year is expected to be approximately \$7,000.

Engineering Intern

- Public works staff has identified the need for an engineering intern. This position is recommended to work full time (40 hours per week) for three months out of the fill fiscal year annually. The intern will perform soon to be outdated engineering and traffic surveys to ensure local speed limits are legally enforceable while providing minor support to active construction projects.
- The total financial impact of this position is expected to be approximately \$11,250 annually.

Finance

Accounting Analyst

- The 2018 Camp Fire and the subsequent recovery process has created a monumental increase in activity and responsibility in the Finance Department. Post Camp Fire, the sheer volume of invoices, receivables, as well as the complexity of the grant projects and related grant reimbursements has increased substantially. It has become apparent that there is a need for additional personnel resource in the Finance Department to support the burdensome administration of these reimbursements. Initially, a need for a position of this nature was identified as a Grant Administrator in the Recovery Department, however, as project reimbursement processes unfold, it is best served in the Finance Department. Ultimately this is where the reimbursement administration and processing come together. The substantially higher volume and complexity of the funding sources, including a host of different governmental agencies, equates to onerous reimbursement processes. Additional personnel are needed to ensure reimbursements are eligible and timely, and to support the overall increased workload that the Finance department has experienced following the Camp Fire.
- This salary pay plan placement of this position is recommended to be equivalent to that of the currently approved Accountant position, which ranges from \$30.44 (Step A) to \$38.85 (Step F). The total annual financial impact of this position, including wages and benefits,

is expected to be approximately \$96,000. However, as this position is anticipated to support the grant administration process, an estimated 60% (\$58,000) of the total annual cost is expected to be recoverable through grant project funding. As such, only 40% (\$38,000) of the total annual cost would result in a General Fund impact.

 Based on a conservatively estimated start date of mid-March 2023, the total financial impact of this position for the current fiscal year is estimated to be \$28,000. \$16,800 of this total would be expected to be recoverable through grant funding, resulting in a total General Fund impact of \$11,200.

Senior Accountant

- Finance staff has requested a reduction in the hours for this position from 40 to 36 per week
- The total General Fund savings of this reduction in hours is expected to be approximately \$10,000 for an entire fiscal year. The General Fund savings for the current fiscal year is expected to be approximately \$4,000.

Actual Financial Activity Review through January 30, 2023

General Fund (1010):

Revenues:

Property tax and sales tax revenues make up the majority of the Town's General Fund revenue budget. Overall, the Town's property and sales tax revenues are trending at or above budgeted expectations for the first seven months of fiscal activity. A summary of the most significant General Fund revenue sources is included below.

G/L Account Number	Account Description	FY 2021-22 Unaudited Actual Amount	FY 2022-23 Adopted Budget	FY 2022-23 Amended Budget	FY 2022-23 Actuals to Date
1010.00.0000.3110.311	Property Tax Current Secured	2,368,023	2,340,000	2,340,000	1,680,279
1010.00.0000.3110.312	Property Tax Current Unsecured	107,575	116,500	116,500	134,420
1010.00.0000.3130.325	General Sales and Use Tax Sales and Use Tax	1,198,929	1,000,000	1,000,000	304,142
1010.00.0000.3182.335	Franchise Taxes Franchise Taxes	386,817	347,000	347,000	79,634
1010.00.0000.3185.340	Transient Occupancy Tax Transient Occupancy Tax	225,722	200,000	200,000	59,254
1010.00.0000.3356.001	State Motor Vehicle In Lieu Motor Vehicle In Lieu Tax	1,067,604	1,097,000	1,097,000	659,794

Expenditures:

Overall, General Fund expenditures are largely within revised budgeted expectations for the first seven months of the fiscal year.

Based on detailed analysis of the General Fund financial activity, additional General Fund expenditures totaling \$145,500 have been proposed as budget adjustments for the mid-year review period. In order to maintain a balanced General Fund budget, the additional expenditures are proposed to be offset by additionally identified General Fund revenues totaling \$40,000 and an additional transfer from the PG&E Settlement Funds totaling \$105,500. The total revised proposed budgeted transfer from the PG&E Settlement Fund of \$11,280,797 is still within the maximum annual transfer as projected using the medium rate growth projection in the Town's long-term fiscal sustainability model.

The recommended changes by department are summarized in the chart below. A detailed description of each change by department is also provided.

		TOWN OF	PARADISE			
	General	Fund Expendit	ure Summary b	y Division		
		Fiscal Year 2	022/23 Budget			
	2021/22	2022/23	2022/23	2022/23	2022/23	2022/23
	Unaudited	Adopted	Amended	Actual	Proposed	Proposed
Description	Acutal	Budget	Budget	to Date	Adjustments	Budget
Non Departmental	\$ 1,323,274	\$ 1,734,773	\$ 1,734,773	\$ 29,959	\$ -	\$ 1,734,773
Town Council	36,066	37,600	39,100	20,123	-	39,100
Town Clerk	257,213	334,531	334,531	183,306	-	334,531
Town Manager	294,433	370,179	370,179	196,498	-	370,179
Central Services	593,519	665,138	677,838	523,331	-	677,838
Information Technology	95,838	-	-	-	-	-
HR & Risk Management	210,709	226,733	226,733	128,123	-	226,733
Legal Services	156,559	203,110	203,110	10,593	-	203,110
Finance	293,384	309,762	311,912	137,957	7,200	319,112
Police	5,405,275	6,118,298	6,130,798	3,703,214	3,400	6,134,198
Fire	4,511,280	5,857,303	5,857,303	1,180,733	1,650	5,858,953
Community Development	586,049	1,469,713	1,469,713	333,519	-	1,469,713
Public Works	1,212,520	1,226,280	1,704,300	820,779	133,250	1,837,550
Subtotal	14,976,118	18,553,420	19,060,290	7,268,134	145,500	19,205,790
Measure V	1,183,046	1,510,994	1,654,994	804,114	-	1,654,994
Grand Total	\$ 16,159,164	\$ 20,064,414	\$ 20,715,284	\$ 8,072,248	\$ 145,500	\$ 20,860,784

Measure V:

- \$0 Net Impact: During the second quarter of FY 2022/23, the Town worked with Northern Recycling and Waste Services (NRWS) to secure funding that would provide an additional \$75,000 towards the total purchase price of the previously approved Public Works street sweeper. This reduces the total expenditure budgeted from Measure V needed for this purchase from \$144,000 to \$69,000, and provides \$75,000 from the amended Measure V budget that can be reallocated towards other expenditures. Based on the most urgent needs identified by staff, the \$75,000 is proposed to be reallocated toward the following budgeted expenditures:
 - \$32,000: In-Vehicle Cameras for 3 New Chevy Tahoes to be integrated into police department body-worn and in-vehicle camera program.
 - \$30,000: Fire Utility Vehicle based on additional funding need due to inflationary pressures since initial budget development. The additionally proposed \$30,000 funding would be applied toward the previously budgeted \$20,000 in funding from Measure V, as well as an additional \$50,000 in General Fund budget to meet the total estimated purchase price of approximately \$100,000.
 - \$7,000: Animal Control Vehicle based on additional funding need due to inflationary pressures since initial budget development. The additionally proposed \$7,000 funding would be applied toward the previously budgeted \$43,000 in funding from Measure V, as well as additional USDA grant revenue funding to meet the total estimated purchase price of approximately \$120,000.
 - \$4,000: K-9 Upfit of 1 Chevy Tahoe for additional K-9 unit brought on during the second quarter of FY 2022/23. The proposed budget of \$4,000 would support the upfit costs of one of the newly purchased Chevy Tahoes to accommodate this additional K-9.
 - \$2,000: Training for 1 additional K-9 brought on during the second quarter of FY 2022/23. The proposed budget of \$2,000 would support the ongoing K-9 training costs for the second half of the fiscal year.
- The proposed amendment and revised budget, as described above, was presented to, and approved by the Measure V Citizen Oversight Committee on January 24, 2023.

Town Clerk:

\$0 Net Impact: The Town Clerk department has identified additional budget needs totaling \$6,320 for office supplies, a program to ensure website ADA compliance, 8 hours of overtime for staff to attend committee meetings to aid in succession planning, and additional employee development expenses to allow for attendance at the annual CCAC Conference. The additional budget needs are offset by budget savings realized in the actual cost of the election, which results in a net \$0 General fund impact.

Information Technology

• \$0 Net Impact: The IT department has identified additional professional services needs totaling approximately \$50,000 to allow for continued support of the department for the remainder of the fiscal year. The additional cost of these services is offset by an additional transfer from the Technology Equipment Replacement Fund, which results in a net \$0 General Fund impact.

Finance

\$7,200 Increase: As described in the Staffing Update section above, the Finance department has proposed the addition of an Accounting Analyst position, as well as the reduction in the weekly hours for the Senior Accountant position from 40 to 36. The General Fund net impact of these staffing changes for the current fiscal year is estimated to be \$7,200.

Police Department

\$3,400 Increase: The Police Department has identified \$1,200 of additional improvements needs based on actual quoted costs above original estimates for the budgeted project to repair the station front doors and the administrative assistant office enclosure. Additionally, \$2,200 has been identified as a need for ongoing connectivity costs for six additional in vehicle / body worn cameras to be incorporated into the Town wide system.

Fire Department

\$1,650 Increase: The actual cost of the Town's annual HazMat JPA County agreement has increased approximately \$550 above original budget expectations as a result of the growing population within the Town limits. Additionally, Emergency Operations staff has identified an additional budget need of \$1,100 to allow for printing and lamination of Town maps and restocking of EOC supplies to ensure the Town EOC is properly prepared in the event of an emergency.

Public Works Fleet

\$70,000 Increase: The Public Works Fleet department has identified additional budget needs totaling \$70,000 for additional repair and maintenance supplies and services (\$65,000), operating supplies (\$4,000) and fuel (\$1,000) to support the fleet for the remainder of the fiscal year. The additional cost above original budget expectations are the result of increased output of the fleet department in keeping up with scheduled maintenance as opposed to responding only to emergency repairs, inflation leading to higher prices of parts, and the growing size of the town-wide fleet.

Public Works Engineering

\$18,250 Increase: As described in the Staffing Update section above, the Engineering department has proposed the addition of an Engineering Intern position, as well as the increase in the weekly hours for the Administrative Assistant position from 24 to 36. The General Fund net impact of these staffing changes for the current fiscal year is estimated

- to be \$18,250.
- \$5,000 Increase: Public works staff has identified the need for a total of \$6,500 above the original budget estimates to assist in the recruitment and hiring efforts of the newly approved positions. These costs are expected to be partially offset by a \$1,500 savings in original budget estimates for wages, resulting in a net \$5,000 General Fund impact.

Facilities

\$0 Net Impact: The originally adopted budget included an estimate for the planned replacement of the fuel island and related software serving the Town fleet. The actual quote for this replacement was \$12,000 over the original budget estimate. The additional costs for this project are proposed to be reallocated from the budgeted purchase of tire equipment for the fleet, which staff has suggested to be postponed until next fiscal year.

General Fund Fiscal Impact and Fund Summary:

The recommended General Fund budget amendments includes \$145,500 of total additional expenditures, which is offset by \$40,000 of additional revenues. This leaves a total of \$105,500 of additional funding requirements. In order to balance the General Fund budget, an additional transfer from the PG&E Settlement Fund in the amount of \$105,500 is recommended. This additional recommended transfer amount brings the total proposed budgeted transfer from the settlement funds to \$11,280,797 for the full fiscal year. The Fiscal Sustainability Model has been updated based on this amended transfer amount to ensure ongoing fiscal sustainability based on a medium growth scenario. The details of the updates to the Fiscal Sustainability Model have been included below. A General Fund and PG&E Settlement Fund budget summary is also included below which presents the beginning fund balances, original and amended budget figures, and summarized actual results to date. A full detail of all figures presented below is included in the attached Budget Worksheet Reports.

TOWN OF PARADISE General Fund (GF) Summary Fiscal Year 2022/23 Budget													
Description	2021/22 Unaudited Acutal	2022/23 Adopted Budget	2022/23 Amended Budget	2022/23 Actual to Date	2022/23 Proposed Adjustments	2022/23 Proposed Budget							
Beginning Fund Balance													
GF (excluding Measure V)	2,265,760	2,265,760	2,265,760	2,265,760		2,265,760							
Measure V	1,672,024	1,790,220	1,790,220	1,790,220		1,790,220							
Measure V (encumbrances)	(364,694)	(562,162)	(562,162)	(562,162)		(562,162)							
Total	3,573,090	3,493,818	3,493,818	3,493,818		3,493,818							
GF Revenues	7,694,514	5,751,853	5,770,085	3,547,513	40,000	5,810,085							
GF Transfers In	7,283,123	12,801,567	13,290,205	3,723,094	105,500	13,395,705							
GF Expenditures / Transfers Out (excluding Measure V)	14,977,637	18,553,420	19,060,290	7,270,607	145,500	19,205,790							
GF Net Income (Expense)	, , , , , , , , , , , , , , , , , , ,	· · ·	· -	<u> </u>	-	<u> </u>							
Measure V Revenues	1,299,723	1,200,000	1,200,000	384,685	-	1,200,000							
Measure V Expenditures	1,181,527	1,510,994	1,654,994	801,641	-	1,654,994							
Measure V Net Income (Expense)	118,196	(310,994)	(454,994)	(416,956)	-	(454,994)							
Ending Fund Balance													
GF (excluding Measure V)	2,265,760	2,265,760	2,265,760	2,265,760		2,265,760							
Measure V	1,790,220	1,479,226	1,335,226	1,373,264		1,335,226							
Measure V (encumbrances)	(562,162)	(562,162)	(562,162)	(549,775)		(562,162)							
Total	3,493,818	3,182,824	3,038,824	3,089,249		3,038,824							
PGE Settlement Fund													
Beginning Fund Balance	220,091,398	214,971,613	214,971,613	214,971,613		214,971,613							
Revenues	959,687	1,100,000	3,327,843	2,917,815	-	3,327,843							
Expenditures / Transfers Out	6,079,472	11,069,377	11,259,297	3,724,220	105,500	11,364,797							
Ending Fund Balance	214,971,613	205,002,236	207,040,159	214,165,208	(105,500)	206,934,659							

General Fund Long Term Fiscal Sustainability Model Impact:

The originally adopted budget for FY 2022-23 included a transfer from the PG&E Fund to the General Fund totaling \$10,985,377. The originally budgeted transfer amount maintained an ending reserve balance of the PG&E Settlement Fund of \$205,002,236 as of the end of FY 2022-23. Based on the fiscal sustainability model projections from the FY 2022-23 adopted budget, the amount of the original settlement amount reserved for use toward operational costs (~\$200 million) remaining as of the end of the 25-year projection period is projected to be \$64 million, as shown in the charts below.

The amendments to the originally adopted budget that were approved by Council during the September 13, 2022, September 15, 2022, October 11, 2022, and November 7, 2022 Council meetings increased the total projected General Fund expenditures for FY 2022-23 by \$189,920. These General Fund impacts increased the revised estimated total projected transfer needed from the PG&E Fund to balance the General Fund to \$11,175,297.

During the first quarter of the fiscal year, the Town received reimbursement of the 1% total settlement amount that was originally held back during the settlement to pay for trailing legal costs. The amount of the reimbursement received by the Town was equal to 1% of the total settlement amount (\$2,700,000) less final attorney fees (\$472,157), for a net reimbursement of \$2,227,843.

The net effect of the additional increase to the budgeted transfer from the PG&E Fund and the trailing cost reimbursement is projected to maintain an estimated balance of the PG&E Fund at the end of FY 2022-23 to \$207,040,159 based on the currently amended budget.

Based on the updated fiscal sustainability model projections from the receipt of the trailing costs reimbursement and recurring additional budget amendments incorporated into the FY 2022-23 amended budget, the amount of the original settlement amount reserved for use toward operational costs (~\$200 million) remaining as of the end of the 25-year projection period is projected to be approximately \$1.6 million less than the original estimate based on the adopted budget, or \$62.4 million.

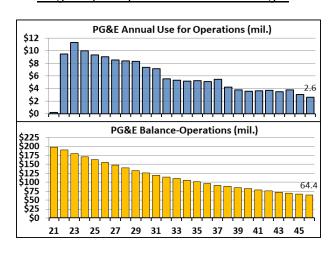
Based on review of the actual fiscal activity compared to the amended budget through January 2023, staff has proposed net additional General Fund expenditures totaling \$100,500, which would bring the revised estimated total projected transfer from the PG&E Fund required to balance the General Fund to \$11,280,297. The additional expenditures for the Town fleet department are expected to be one-time expenditures that should not be expected to recur in future fiscal years, while the remaining \$30,500 of general fund expenditures are expected be recurring.

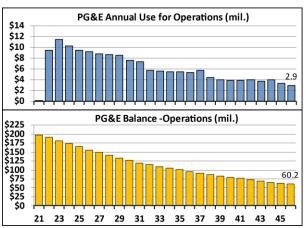
Based on the further updated fiscal sustainability model projections from the recurring additional General Fund budgeted expenditures incorporated into the FY 2022-23 amended budget, as described above, the amount of the original settlement amount reserved for use toward operational costs (~\$200 million) remaining as of the end of the 25-year projection period after is projected to be approximately \$2.4 million less than the amended estimate based on the currently amended budget, or \$60.2 million as shown in the charts below.

The projected balance of \$60.2 million is a positive indicator of continued long-term fiscal sustainability through the period projected and provides an additional contingency reserve that can be utilized if revenue backfill is needed beyond the 25-year projection period, or in the event that rebuild activity, or other factors, varies significantly from current projections at any point in the future.

Originally Adopted FY 2022-23 Budget

Proposed Amended FY 2022-23 Budget





Building Safety and Wastewater Services (BSW) (Fund 2030)

The Town is currently leasing a 2018 Chevy Colorado for use within the BSW department. The monthly payments have been included in the adopted budget through the end of the lease term, which is set to expire in February 2023. After review of the lease agreement, the Town has the option to purchase the vehicle at the end of the lease term based on the reduced book value at lease termination, which is estimated to be approximately \$5,700. The vehicle is recommended by BSW staff to be purchased at the end of the lease term. The funds for this purchase are proposed to be reallocated from savings realized in the current BSW Fund 2030 improvements account. As such, this purchase will not result in any additional fund financial impacts.

All other revenues and expenditures relating to the Building Safety and Wastewater Services fund are within budgeted expectations for the first seven months of the fiscal year. A detailed budget performance report is attached for review.

Animal Control Services (Fund 2070)

All revenues and expenditures relating to the Animal Control fund are within budgeted expectations for the first seven months of the fiscal year. A detailed budget performance report is attached for review.

Camp Fire Recovery (Fund 2090)

All revenues and expenditures relating to the Camp Fire Recovery Fund are within budgeted expectations for the first seven months of the fiscal year. Town staff continues to work closely with FEMA, CalOES, and insurance to recover reimbursement for infrastructure project costs related to the 2018 Camp Fire on a timely basis. A detailed budget performance report is attached for review.

COVID-19 (Fund 2095)

The originally adopted budget included \$1,359,500 of approved expenditures for FY 2022-23 and projected an ending fund balance of \$1,224,280 as of June 30, 2023.

During Town Council meetings held through November 7, 2022, Council approved \$822,601 of total additional expenditures funded through the use of the American Rescue Plan Act (ARPA) funds. The additional expenditures included \$418,361 toward the restoration of dispatch services

project (CIP #7324), \$90,000 toward the Category 4 Tree Removal program (CIP #7312), \$259,000 toward facility repairs to Town Hall, and \$55,240 toward facility repairs to Fire Station 81.

The amended budget includes \$2,182,101 of approved expenditures for FY 2022-23 and currently projects an ending fund balance of \$401,679 as of June 30, 2023.

All revenues and expenditures relating to the COVID-19 fund are within revised budgeted expectations for the first seven months of the fiscal year. A detailed budget performance report is attached for review.

Capital Improvement Fund (2100)

- \$0 Net Impact: Additional funds in the amount of \$350,000 have been identified as needed towards the completion of the Downtown Sewer Environmental Survey (CIP/DR Project #9394). The original budget estimate included in the CIP/DR plan for FY 2022-23 was \$303,782, which was budgeted to be funded through the use of California State Water Board Financial Assistance funds. The additional \$350,000 budget amendment is proposed to be funded through additional use of State Water Board Financial Assistance funds available.
- All other revenues and expenditures relating to the Capital Improvement fund are within budgeted expectations for the first seven months of the fiscal year. Revenues are likely to be realized later in the fiscal year as reimbursement requests are completed for costs incurred during the fiscal year. A detailed budget performance report is attached for review.

Significant expenditures for the first seven months of the fiscal year include:

0	9385 Paradise Gap Closure Project:	\$ 807,496
0	9377 Almond Multi-Modal Improvements:	\$ 796,562
0	9394 Downtown Sewer Environmental Survey:	\$ 495,527
0	9418 Stearns Road Culvert Replacement	\$ 197,919
0	9417 CDBG Sidewalk Improvements 2022	\$ 165,671
0	9389 Pentz Pathway Phase II Project	\$ 101,163
0	9420 Interim Safety Striping 2022	\$ 95,098
0	9391 Oliver Curve Pathway Project	\$ 62,536
0	9390 Skyway-Neal Bike-Ped Project	\$ 59,421

Disaster Recovery Fund (2105)

• \$0 Net Impact: Additional funds in the amount of \$150,000 and \$37,000 have been identified as needed towards the completion of the On-System Hardscape Replacement (CIP/DR Project #7302) and On-System Culvert Replacement (CIP/DR Project #7301) projects, respectively. The original budget estimate included in the CIP/DR plan for FY 2022-23 was \$138,875 for the On-System Hardscape Replacement project and \$139,483 for the On-System Culvert Replacement project. Both projects were budgeted to be funded through the use of Federal Emergency Relief Program (88.53%) and CDBG-DR (11.47%) funds. The additional \$187,000 budget amendment is proposed to be funded through additional use of additional Federal Emergency Relief Program and CDBR-DR funds available.

All other revenues and expenditures relating to the Disaster Recovery fund are within budgeted expectations for the first seven months of the fiscal year. Revenues are likely to be realized later

in the fiscal year as reimbursement requests are completed for costs incurred during the fiscal year. A detailed budget performance report is attached for review.

Significant expenditures for the first seven months of the fiscal year include:

0	7303 On System Road Rehabilitation:	\$5,148,376
0	7106 Portable and Mobile Police Radios	\$ 718,944
0	7314 Early Warning System	\$ 573,188
0	7324 Restoration of Dispatch Services:	\$ 216,486
0	7320 SWRCB Septic Grant	\$ 158,964
0	7301 On-System Culvert Replacement	\$ 139,483
0	7302 On-System Hardscape Replacement	\$ 138,875
0	7312 Category 4 Tree Removal:	\$ 119,261
0	7309 Transportation Master Plan	\$ 70,201

Gas Tax / Street Maintenance (Fund 2120)

- \$64,000 Increase: Public works staff has identified the need for a net \$64,000 in additional operating, repair, and maintenance supplies to maintain the Town's streets for the remainder of the fiscal year. This total includes \$30,000 for vegetation management, \$25,000 for traffic signals (of which \$10,000 is expected to reimbursed through insurance claims for damages incurred), \$15,500 in additional rental equipment (100% of which is expected to be reimbursed through the Town's 2018 Camp Fire insurance claim), \$10,000 for signs, \$5,000 for drainage, and \$4,000 for essential personal protective equipment to ensure safety of the crew performing street related work. The additional expenditures are proposed to be funded through Gas Tax reserves. As such, these expenditures will not result in any additional General Fund financial impacts.
- \$5,700 Increase: The Town is currently leasing a 2018 Chevy Colorado for use within the Public Works department, funded through Gas Tax funds. The monthly payments have been included in the adopted budget through the end of the lease term, which is set to expire in February 2023. After review of the lease agreement, the Town has the option to purchase the vehicle at the end of the lease term based on the reduced book value at lease termination, which is estimated to be approximately \$5,700. The vehicle is recommended by Public Works staff to be purchased at the end of the lease term. The vehicle purchase is proposed to be funded through Gas Tax reserves. As such, this purchase will not result in any additional General Fund financial impacts.
- All other revenues and expenditures relating to the Gas Tax fund are within budgeted expectations for the first seven months of the fiscal year. A detailed budget performance report is attached for review.

Business and Housing Services (BHS) (Fund 2160)

BHS staff has identified the need for a full-time temporary position to assist with the increased workload the department has experienced since the 2018 Camp Fire. As the need for this position is currently expected to be temporary in nature, the position is proposed to be filled through a temporary staffing agency. The estimated cost of the position through the remainder of the current fiscal year is estimated to be \$20,000. The additional cost of the position is expected to be funded through the housing grants that this position would be working on, primarily the Cal HOME program. As such, the addition of this position would not result in any additional General Fund impact.

All other revenues and expenditures relating to the Business and Housing fund are within

budgeted expectations for the first seven months of the fiscal year. A detailed budget performance report is attached for review.

PGE Settlement Fund (7700)

o Revenues:

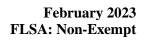
The Town has received \$689,972 in net interest revenues for the first six months of the fiscal year, which is trending in line with total budgeted expectations of \$1,100,000 for the full fiscal year. Staff continues to closely monitor revenues as securities mature and funds are reinvested into new investments under this quickly changing interest rate environment.

Expenditures / Transfers Out:

\$105,500 Increase: As mentioned above, the total recommended General Fund budget amendments includes \$145,500 of net additional expenditures, which is offset by \$40,000 of additional General Fund revenues. This leaves a total of \$105,500 of additional funding requirements. In order to balance the General Fund budget, an additional transfer from the PG&E Settlement Fund in the amount of \$105,500 is recommended.

Conclusion:

Overall, the Town-wide financial activity for the first seven months of the fiscal year is largely within budgeted expectations. The total impact to the General Fund of the recommended adjustments above is an additional \$145,500 in expenditures, which is recommended to be offset by additional General Fund revenues in the amount of \$40,000 and an additional transfer from the PG&E Settlement Funds in the amount of \$105,500. The amended FY 2022-23 PG&E fund total transfer amount of \$11,280,797 and projected PG&E Settlement Fund balance at the end of the projection period included in the Fiscal Sustainability model (\$60.2 million) is still a positive indicator of ongoing fiscal sustainability based on a medium growth scenario. Staff will continue to closely monitor financial activity against budgeted benchmarks and will bring any additional recommendations for budget amendment throughout the remainder of the fiscal year through the regular budget review process.





ACCOUNTING ANALYST

DEFINITION

Under general direction, organizes, analyzes and monitors disaster recovery projects to facilitate reimbursement of funds within the Town of Paradise;; provides grants administration support; develops, summarizes, and maintains administrative and fiscal records; coordinates grants programs to document specifics needed for reimbursement, special projects, and studies and performs related administrative functions; assists in reconciliation of general ledger accounts; assists in preparation of the Town's annual budgets; prepares year-end audit reports and schedules; fosters cooperative working relationships among Town departments and acts as liaison with various community, public, and regulatory agencies; and performs related work as required.

SUPERVISION RECEIVED AND EXERCISED

Receives general direction from the Finance Director/Town Treasurer. Exercises no supervision over staff.

CLASS CHARACTERISTICS

This is a professional classification responsible for activities related to the Town's finances with a special emphasis in supporting disaster recovery projects. Responsibilities include budget development, grant funding administration and reporting, expenditure monitoring, and grant funds disbursement. Incumbents serve as a resource for project analyses, evaluation, and reporting. Performance of the work requires the use of considerable independence, initiative, and discretion within established guidelines.

EXAMPLES OF TYPICAL JOB FUNCTIONS (Illustrative Only)

Management reserves the right to add, modify, change, or rescind the work assignments of different positions and to make reasonable accommodations so that qualified employees can perform the essential functions of the job.

- > Provides responsible professional and technical assistance in the administration and implementation of the Town's financial, auditing, and accounting programs.
- > Coordinates reimbursement for disaster recovery projects, reviews, evaluates, and assesses methods and procedures and administrative support systems to ensure compliance with funding.
- ➤ Coordinates and performs work in administration, and reporting, including evaluating funding opportunities relative to Town policies and vision, preparing grant proposals, assisting in preparing budgets, and interpreting funding agency regulations and requirements.
- Tracks Capital Improvement Program expenditures and allocates funds to the appropriate Capital Improvement Project account.
- Maintains and monitors the Town's grant funds and ensures compliance with rules and regulations governing the use of each grant.
- Monitors expenditures, revenues, and budget allocations to determine the Town's financial status and prepares custom reports, graphs, and schedules as needed.
- Analyzes, reviews, and ensures compliance of proposals and grant budgets with policies, regulations, funding agency requirements, and accounting protocols and procedures; facilitates documentation requirements.
- ➤ Develops and maintains specialized databases and systems for recording and tracking grant proposals, awards, and related statistical information.

- Collects, compiles, and analyzes information from various sources on a variety of specialized topics to related projects; prepares comprehensive technical records and reports to present and interpret data, identifies alternatives, and makes and justifies recommendations.
- Advises and guides staff on the application of grant funding policies, regulations, and procedures.
- > Serves as a liaison with employees and grant funding organizations pertaining to grant reimbursement submissions and future funding; provides information and assistance to the departments regarding research of funding opportunities; receives and responds to questions relating to assigned area of responsibility.
- Maintains accurate records and files; develops storage of records and retention schedules.
- ➤ Attends meetings, conferences, workshops, and training sessions and reviews publications and materials to remain current on grant funding policies, regulations, procedures, and new developments; prepares reports of changes to management; provides recommendations on implementation and impact of changes.
- Negotiates project contracts and agreements; determines needs and requirements for contractual services; ensures legal and contractual provisions are included to protect the Town's interests; ensures contractor compliance with contractual provisions.
- > Serves as a liaison for the division with other Town departments, divisions, and outside agencies; attends meetings in various locations; provides staff support to the Town, committees, and task forces; participates in community events and workshops that provide public information regarding divisional projects and services.
- ➤ Confers with Town departments, elected officials, and outside agencies to define and develop strategies to achieve Town objectives.
- Attends and participates in professional group meetings; stays abreast of new trends and innovations in disaster recovery.
- Monitors changes in laws, regulations, and technology that may affect Town or divisional operations; implements policy and procedural changes as required.
- > Performs other related duties as assigned.

QUALIFICATIONS

Knowledge of:

- Modern principles, practices, and methods of public and governmental accounting and financing, including program budgeting and auditing and their application to municipal operations.
- > Organizational and management practices as applied to the analysis and evaluation of projects, policies, procedures, and operational needs, principles and practices of public agency administration.
- > Principles, practices, and procedures of budgeting, contract administration, and grant administration.
- Project and/or program management, analytical processes, and report preparation techniques.
- Research and reporting methods, techniques, and procedures.
- > Sources of information related to a broad range of municipal programs, services, and administration.
- Applicable Federal, State, and local laws, regulatory codes ordinances, and procedures relevant to assigned area of responsibility.
- > Record keeping principles and procedures.
- Techniques for effectively representing the Town in contacts with governmental agencies, community groups, and various business, professional, educational, regulatory, and legislative organizations.
- Administrative principles and practices, including goal setting, project development, implementation, and evaluation.
- Methods and techniques for the development of presentations, business correspondence, and information distribution.
- Techniques for providing a high level of customer service by effectively dealing with the public, vendors, contractors, and Town staff.

- ➤ The structure and content of the English language, including the meaning and spelling of words, rules of composition, and grammar.
- Modern equipment and communication tools used for business functions and program, project, and task coordination.
- > Computers and software programs (e.g., Microsoft software packages) to conduct, compile, and/or generate documentation.

Ability to:

- Assist in the development of goals, objectives, policies, procedures, and work standards for grant administration.
- ➤ Coordinate and oversee departmental administrative, budgeting and fiscal reporting activities as they relate to projects funded by grants.
- ➤ Interpret, apply, and explain complex Federal, State, and local laws, codes, regulations, and departmental policies and procedures.
- Analyze, interpret, summarize and present administrative and technical information and data in an effective manner.
- ➤ Prepare clear and effective financial, statistical, narrative, informational, and educational reports, correspondence, procedures, and other written material.
- Make accurate arithmetic, financial and statistical computations.
- ➤ Analyze situations and identify pertinent problems/issues, conduct research to gather relevant information, evaluate alternatives, make sound recommendations, and prepare effective technical staff reports.
- > Organize and prioritize a variety of projects and multiple tasks in an effective and timely manner; organize own work, setting priorities, and meeting critical time deadlines.
- > Effectively administer special projects with contractual agreements and ensure compliance with stipulations.
- Conduct effective negotiations and effectively represent the Town and the assigned division in meetings with governmental agencies, contractors, vendors, and various businesses, professional, regulatory, and legislative organizations.
- ➤ Learn and understand the organization and operation of the Town and of outside agencies as necessary to assume assigned responsibilities.
- Effectively use computer systems, software applications, and modern business equipment to perform a variety of work tasks.
- > Communicate clearly and concisely, both orally and in writing, using appropriate English grammar and syntax.
- ➤ Use tact, initiative, prudence, and independent judgment within general policy, procedural, and legal guidelines.
- Establish, maintain, and foster positive and effective working relationships with those contacted in the course of work.

Education and Experience:

Any combination of training and experience that would provide the required knowledge, skills, and abilities is qualifying. A typical way to obtain the required qualifications would be:

Equivalent to a bachelor's degree in in public administration, business administration, or a closely related field and three (3) years of municipal government experience including grant development and administration.

Licenses and Certifications:

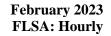
➤ Possession of, or ability to obtain, a valid California Driver's License by time of appointment and a satisfactory driving record.

PHYSICAL DEMANDS

The standard office position requires an employee to access their work location, attend meetings, use computerized workstations, and lift paperwork and light-weight equipment or resources (less than 20 pounds). Typically, an employee will need to walk, stand, sit, use a keyboard, see, hear, bend, lift, and twist. The employee obtains information from oral instructions, conversations, written reports, email, the Internet, and professional publications, and will process and analyze the information obtained. The employee will provide information orally or in writing, and work on numerous concurrent projects and tasks under deadlines. Typically, an employee will need to mentally process and analyze complex information, compose complex responses, interact with others, and present information and reports.

ENVIRONMENTAL CONDITIONS

Employees work in an office environment with moderate noise levels, controlled temperature conditions, and no direct exposure to hazardous physical substances.





ENGINEERING INTERN (400 HOURS - PART-TIME, TEMPORARY)

DEFINITION

Under the direction of Engineering staff, perform a variety of engineering field related tasks.

SUPERVISION RECEIVED AND EXERCISED

Receives general supervision from engineering staff including Capital Project Managers and Engineering Division Manager. Exercises no direct supervision over staff.

CLASS CHARACTERISTICS

This is an internship level classification responsible for assigned activities related to the Town's Public Works Engineering Division. Responsibilities include the preparation of an update to the Town's Engineering & Traffic Surveys, including data collection and analysis. This position will provide time shadowing project managers, visiting job sites, and gaining meaningful experience with consultants. The ideal candidates will have some experience with CAD/GIS, computer skills using Microsoft Suites, ability to research online, and great oral and written communication skills.

EXAMPLES OF TYPICAL JOB FUNCTIONS (Illustrative Only)

Management reserves the right to add, modify, change, or rescind the work assignments of different positions and to make reasonable accommodations so that qualified employees can perform the essential functions of the job.

- Assists supervisor and department staff members with a variety of support duties as assigned
- Assists in researching, compiling, and analyzing data
- Prepares and/or processes routine reports, correspondence, and records
- Performs computer data entry to record and retrieve department information
- Interacts with interdepartmental staff and other agency representatives in obtaining or providing data
- Performs routine clerical tasks as needed, including copying and filing documents, collating materials, etc.
- Performs routine field reconnaissance and inspections as needed
- Picks up and delivers documents, materials, supplies, etc., as needed
- Prepare plans and drawings as directed by supervisor and department staff members
- Performs related duties as assigned

QUALIFICATIONS

Knowledge of:

Business English, spelling and grammar; modern office practices, procedures and equipment; personal computer operations; AutoCAD; Microsoft Office Suite, specifically Word and Excel; basic math principles; effective public relations/customer service principles, practices and techniques.

Ability to:

Utilize general office equipment such as telephone, fax, printers, copiers, and computers; learn and apply City policies, procedures, rules and regulations; conduct basic research, research, compile and analyze data and prepare accurate reports and correspondence; reason logically, draw valid conclusions and make appropriate recommendations; maintain work effectiveness and meet deadlines with frequent changes in workload and the priority of assignments; understand and carry out oral and written instructions; communicate clearly and concisely, orally and in writing; establish and maintain cooperative working relationships with those contacted in the course of work; provide quality customer service.

Education and Experience:

Any combination of training and experience that would provide the required knowledge, skills, and abilities is qualifying. A typical way to obtain the required qualifications would be:

Preferred: Must be currently enrolled in an Undergraduate Civil Engineering Program (Sophomore or Junior level).

Accepted: Must be currently enrolled in a collegiate program with a focus in Civil Engineering courses

Licenses and Certifications:

Must possess a valid US driver's license upon date of application. Must obtain California driver's license following hire date per California DMV regulations.

PHYSICAL DEMANDS

Must possess mobility to work in a standard office setting and use standard office equipment, including a computer, to inspect Town development sites, including traversing uneven terrain, climbing ladders, stairs, and other temporary or construction access points, to operate a motor vehicle, and to visit various Town and meeting sites; vision to read printed materials and a computer screen; and hearing and speech to communicate in person, before groups, and over the telephone. This is primarily a sedentary office classification although standing and walking between work areas and to conduct inspections may be required. Finger dexterity is needed to access, enter, and retrieve data using a computer keyboard or calculator and to operate standard office equipment. Positions in this classification occasionally bend, stoop, kneel, reach, push, and pull drawers open and closed to retrieve and file information. Employee must possess the ability to lift, carry, push, and pull materials and objects weighing up to 25 pounds.

ENVIRONMENTAL CONDITIONS

- Office environment with moderate noise levels, controlled temperature conditions and no direct exposure to hazardous physical substances.
- Employees may work in the field and occasionally be exposed to loud noise levels, cold and hot temperatures, inclement weather conditions, road hazards, vibration, mechanical and/or electrical hazards, and hazardous physical substances and fumes.
- Employees may interact with upset staff and/or public and private representatives in interpreting and enforcing departmental policies and procedures.

					TOWN OF PA	RADISE									
				SAI	LARY PAY PLAN										
				Δ	S OF FEBRUAR	Y 14, 2023									
Head Au	uth Budge	et Position	Hours/		Α	В	С	D	E	F					
Count FT	TE's FTE	Title	Week		Step	Step	Step	Step	Step	Step					
0.00 0.	.00 0.00	CRIMINAL RECORD	S TECUNICIA	N NI											
	.00 0.00				FINAL DART TIN	AE /HOLIBLY)									
0.00 0.	.00 0.00	HOURLY	18	IN HALF-	18.56	19.49	20.46	21.48	22.55	23.68					
			18	20											
		BIWEEKLY		36	668.16	701.64	736.56	773.28	811.80	852.48					
		MONTHLY		78	1,447.68	1,520.22	1,595.88	1,675.44	1,758.90	1,847.04					
		ANNUAL		936	17,372.16	18,242.64	19,150.56	20,105.28	21,106.80	22,164.48					
1.00 1.	1.00 1.00 MAINTENANCE WORKER I HOURLY 40 19.02 19.97 20.97 22.02 23.12 24.28														
		HOURLY	40		19.02	19.97	20.97	22.02	23.12	24.28					
		BIWEEKLY		80	1,521.60	1,597.60	1,677.60	1,761.60	1,849.60	1,942.40					
		MONTHLY		173	3,296.80	3,461.47	3,634.80	3,816.80	4,007.47	4,208.53					
		ANNUAL		2,080	39,561.60	41,537.60	43,617.60	45,801.60	48,089.60	50,502.40					
1.00 1.	.00 1.00	OFFICE ASSISTANT	(BLIII DING)												
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	.00 1.00		•	KCEIVIEI	VI)										
	.90 0.90		• •												
1.00 1.	.00 1.00)	40.54	20.40	24.54	22.50	22.72	24.04					
		HOURLY	40	00	19.51	20.49	21.51	22.59	23.72	24.91					
		BIWEEKLY		80	1,560.80	1,639.20	1,720.80	1,807.20	1,897.60	1,992.80					
		MONTHLY		173	3,381.73	3,551.60	3,728.40	3,915.60	4,111.47	4,317.73					
		ANNUAL		2,080	40,580.80	42,619.20	44,740.80	46,987.20	49,337.60	51,812.80					
1.00 0.	.75 0.75	OFFICE ASSISTANT	(ANIMAL CO	ONTROL)											
		HOURLY	30		19.51	20.49	21.51	22.59	23.72	24.91					
		BIWEEKLY		60	1,170.60	1,229.40	1,290.60	1,355.40	1,423.20	1,494.60					
		MONTHLY		130	2,536.30	2,663.70	2,796.30	2,936.70	3,083.60	3,238.30					
		ANNUAL		1,560	30,435.60	31,964.40	33,555.60	35,240.40	37,003.20	38,859.60					

						TOWN OF PA	RADISE				
						LARY PAY PLAN	and the second second				
Head	Auth	Budget	Position	Hours/	,	AS OF FEBRUAR A	Y 14, 2023 B	С	D	E	F
Count	FTE's	FTE		Week		Step	Step	Step	Step	Step	Step
1.00	0.25	0.25	ENGINEERING INTER								
			HOURLY	40		20.00	20.00	20.00	20.00	20.00	20.00
			BIWEEKLY		80	1,600.00	1,600.00	1,600.00	1,600.00	1,600.00	1,600.00
			MONTHLY		173	3,466.67	3,466.67	3,466.67	3,466.67	3,466.67	3,466.67
			ANNUAL		520	10,400.00	10,400.00	10,400.00	10,400.00	10,400.00	10,400.00
3.00	3.00	3.00	BUILDING/ONSITE PE	RMIT TE	CHNICIAN	N I					
3.00	3.00	3.00	MAINTENANCE WOR	KER II							
			HOURLY	40		21.02	22.07	23.17	24.33	25.55	26.83
			BIWEEKLY		80	1,681.60	1,765.60	1,853.60	1,946.40	2,044.00	2,146.40
			MONTHLY		173	3,643.47	3,825.47	4,016.13	4,217.20	4,428.67	4,650.53
			ANNUAL		2,080	43,721.60	45,905.60	48,193.60	50,606.40	53,144.00	55,806.40
1.00	0.60	0.60	ADMINISTRATIVE AS	SISTANT	(FIRE)						
			HOURLY	24		21.54	22.62	23.75	24.94	26.19	27.50
			BIWEEKLY		48	1,033.92	1,085.76	1,140.00	1,197.12	1,257.12	1,320.00
			MONTHLY		104	2,240.16	2,352.48	2,470.00	2,593.76	2,723.76	2,860.00
			ANNUAL		1,248	26,881.92	28,229.76	29,640.00	31,125.12	32,685.12	34,320.00
1.00	0.90	0.90	ADMINISTRATIVE AS	SISTANT	(PUBLIC V	WORKS)					
1.00	0.90	0.90	ADMINISTRATIVE AS	SISTANT	(TOWN N	1ANAGER & HU	IMAN RESOUR	CES)			
			HOURLY	36		21.54	22.62	23.75	24.94	26.19	27.50
			BIWEEKLY		72	1,550.88	1,628.64	1,710.00	1,795.68	1,885.68	1,980.00
			MONTHLY		156	3,360.24	3,528.72	3,705.00	3,890.64	4,085.64	4,290.00
			ANNUAL		1,872	40,322.88	42,344.64	44,460.00	46,687.68	49,027.68	51,480.00
1.00	1.00	1.00	ADMINISTRATIVE AS	SISTANT	(POLICE)						
1.00	1.00	1.00	ADMINISTRATIVE AS	SISTANT	(RECOVEI	RY)					
			HOURLY	40		21.54	22.62	23.75	24.94	26.19	27.50
			BIWEEKLY		80	1,723.20	1,809.60	1,900.00	1,995.20	2,095.20	2,200.00
			MONTHLY		173	3,733.60	3,920.80	4,116.67	4,322.93	4,539.60	4,766.67
			ANNUAL		2,080	44,803.20	47,049.60	49,400.00	51,875.20	54,475.20	57,200.00

					SA	TOWN OF PA					
						AS OF FEBRUAR					
Head	Auth	Budget	Position	Hours/		Α	В	С	D	E	F
Count	FTE's	FTE	Title	Week		Step	Step	Step	Step	Step	Step
2.00	1.80	1.80	ANIMAL CONTROL O								
			HOURLY	36		22.08	23.18	24.34	25.56	26.84	28.18
			BIWEEKLY		72	1,589.76	1,668.96	1,752.48	1,840.32	1,932.48	2,028.96
			MONTHLY		156	3,444.48	3,616.08	3,797.04	3,987.36	4,187.04	4,396.08
			ANNUAL		1,872	41,333.76	43,392.96	45,564.48	47,848.32	50,244.48	52,752.96
0.00	0.00	0.00	ACCOUNTING TECHI	NICIAN							
1.00	1.00	1.00	COMMUNITY SERVI	CES OFFIC	ER						
1.00	1.00	1.00	PROPERTY & EVIDER	NCE TECHI	NICIAN						
			HOURLY	40		22.63	23.76	24.95	26.20	27.51	28.89
			BIWEEKLY		80	1,810.40	1,900.80	1,996.00	2,096.00	2,200.80	2,311.20
			MONTHLY		173	3,922.46	4,118.32	4,324.58	4,541.25	4,768.31	5,007.50
			ANNUAL		2,080	47,070.40	49,420.80	51,896.00	54,496.00	57,220.80	60,091.20
0.00	0.00	0.00	PUBLIC SAFETY DISP	ATCHER (I FSS THA	N HAIF-TIME P	ART-TIME/HO	IRI VI			
0.00	0.00	0.00	HOURLY	18	LL33 111A	23.20	24.36	25.58	26.86	28.20	29.61
1.00	1.00	1.00	BUILDING/ONSITE P	EDMIT TE	CHMICIVI	N II					
2.00	2.00	2.00	PUBLIC SAFETY DISP		CHIVICIA	• 11					
2.00	2.00	2.00	HOURLY	40		23.20	24.36	25.58	26.86	28.20	29.61
			BIWEEKLY	40	80	1,856.00	1,948.80	2,046.40	2,148.80	2,256.00	2,368.80
			MONTHLY		173	4,021.33	4,222.40	4,433.87	4,655.73	4,888.00	5,132.40
			ANNUAL		2,080	48,256.00	50,668.80	53,206.40	55,868.80	58,656.00	61,588.80
			ANNOAL		2,000	40,230.00	30,000.00	33,200.40	33,000.00	30,030.00	01,500.00
2.00	2.00	2.00	SENIOR MAINTENAN	NCE WOR	KER						
0.00	0.00	0.00	CONSTRUCTION INS	PECTOR I							
			HOURLY	40		24.37	25.59	26.87	28.21	29.62	31.10
			BIWEEKLY		80	1,949.60	2,047.20	2,149.60	2,256.80	2,369.60	2,488.00
			MONTHLY		173	4,224.13	4,435.60	4,657.47	4,889.73	5,134.13	5,390.67
			ANNUAL		2,080	50,689.60	53,227.20	55,889.60	58,676.80	61,609.60	64,688.00
0.00	0.00	0.00	CODE ENFORCEMEN	IT OFFICER	R II (LESS	THAN HALF-TIN	IE. PART-TIME	/HOURLY)			
			HOURLY	18	, ,,	25.59	26.87	28.21	29.62	31.10	32.66

						TOWN OF PA	RADISE										
					SA	LARY PAY PLAN											
					1	AS OF FEBRUAR	Y 14, 2023										
Head	Auth	Budget	Position	Hours/		Α	В	С	D	E	F						
Count	FTE's	FTE	Title	Week		Step	Step	Step	Step	Step	Step						
1.00	1.00	1.00	CODE ENFORCEMEI	NT OFFICER	п												
0.00	0.00	0.00	FIRE PREVENTION I														
1.00	1.00	1.00	FLEET MECHANIC II		-												
			HOURLY	40		25.59	26.87	28.21	29.62	31.10	32.66						
			BIWEEKLY		80	2,047.20	2,149.60	2,256.80	2,369.60	2,488.00	2,612.80						
			MONTHLY		173	4,435.60	4,657.47	4,889.73	5,134.13	5,390.67	5,661.07						
			ANNUAL		2,080	53,227.20	55,889.60	58,676.80	61,609.60	64,688.00	67,932.80						
	1.00 1.00 ANIMAL CONTROL SUPERVISOR																
1.00			CDD PERMIT COORDINATOR														
1.00	1.00	1.00															
2.00	2.00	2.00	CONSTRUCTION INSPECTOR II														
1.00	1.00	1.00	CONSTRUCTION INSPECTOR II DEPUTY TOWN CLERK														
2.00	2.00	2.00	HOUSING PROGRAI		IAN												
			HOURLY	40		26.90	28.25	29.66	31.14	32.70	34.34						
			BIWEEKLY		80	2,152.00	2,260.00	2,372.80	2,491.20	2,616.00	2,747.20						
			MONTHLY		173	4,662.67	4,896.67	5,141.07	5,397.60	5,668.00	5,952.27						
			ANNUAL		2,080	55,952.00	58,760.00	61,692.80	64,771.20	68,016.00	71,427.20						
1.00	0.50	0.50	POLICE OFFICER TR	AINEE													
			HOURLY			27.58	28.96	30.41	31.93	33.53	35.21						
1.00	0.45	0.45	BUILDING/ONSITE I	NSPECTOR	I (I FSS T	ΓΗΔΝ ΗΔΙ Ε-ΤΙΜ	F PART-TIME/	HOURLY)									
2.00	01.15	05	HOURLY	18	. (2200 .	28.27	29.68	31.16	32.72	34.36	36.08						
	0.00		D. III D. II. C / 2 - 2	NODECTO -	. /	T12.45\											
0.00	0.00	0.00	BUILDING/ONSITE I		I (PART-	-	20.60	24.45	22.72	24.25	26.63						
			HOURLY	25		28.27	29.68	31.16	32.72	34.36	36.08						
			BIWEEKLY		50	1,413.50	1,484.00	1,558.00	1,636.00	1,718.00	1,804.00						
			MONTHLY		108	3,062.58	3,215.33	3,375.67	3,544.67	3,722.33	3,908.67						
			ANNUAL		1,300	36,751.00	38,584.00	40,508.00	42,536.00	44,668.00	46,904.00						

					TOWN OF PA	ARADISE				
					SALARY PAY PLAI					
Head	Auth	Budget	Position	Hours/	AS OF FEBRUAF	RY 14, 2023 B	С	D	E	F
Count	FTE's	FTE	Title	Week	Step	Step	Step	Step	Step	Step
Count	FIE 3	FIE	Title	vveek	Step	Step	Step	Step	Step	Step
4.00	4.00	4.00	BUILDING/ONSITE	INSPECTOR I						
2.00	2.00	2.00	FIRE PREVENTION	INSPECTOR II						
1.00	1.00	1.00	PUBLIC WORKS SU	PERVISOR						
			HOURLY	40	28.27	29.68	31.16	32.72	34.36	36.08
			BIWEEKLY	80	2,261.60	2,374.40	2,492.80	2,617.60	2,748.80	2,886.40
			MONTHLY	173	4,900.13	5,144.53	5,401.07	5,671.47	5,955.73	6,253.87
			ANNUAL	2,080	58,801.60	61,734.40	64,812.80	68,057.60	71,468.80	75,046.40
1.00	1.00	1.00	ASSISTANT PLANN	ER						
0.00	0.00	0.00	MANAGEMENT AN	IALYST						
			HOURLY	40	28.98	30.43	31.95	33.55	35.23	36.99
			BIWEEKLY	80	2,318.40	2,434.40	2,556.00	2,684.00	2,818.40	2,959.20
			MONTHLY	173	5,023.20	5,274.53	5,538.00	5,815.33	6,106.53	6,411.60
			ANNUAL	2,080	60,278.40	63,294.40	66,456.00	69,784.00	73,278.40	76,939.20
1.00	1.00	1.00	SUPPORT SERVICES	SUPERVISOR						
			HOURLY	40	29.70	31.19	32.75	34.39	36.11	37.92
			BIWEEKLY	80	2,376.00	2,495.20	2,620.00	2,751.20	2,888.80	3,033.60
			MONTHLY	173	5,148.00	5,406.27	5,676.67	5,960.93	6,259.07	6,572.80
			ANNUAL	2,080	61,776.00	64,875.20	68,120.00	71,531.20	75,108.80	78,873.60
1.00	1.00	1.00	ACCOUNTANT							
1.00	1.00	1.00	ACCOUNTANTING	ANALYST						
			HOURLY	40	30.44	31.96	33.56	35.24	37.00	38.85
			BIWEEKLY	80	2,435.20	2,556.80	2,684.80	2,819.20	2,960.00	3,108.00
			MONTHLY	173	5,276.27	5,539.73	5,817.07	6,108.27	6,413.33	6,734.00
			ANNUAL	2,080	63,315.20	66,476.80	69,804.80	73,299.20	76,960.00	80,808.00
2.00	0.90	0.90	BUILDING/ONSITE	INSPECTOR II (LES	S THAN HALF-TIN	ЛЕ, PART-TIME/	HOURLY)			
			HOURLY	18	31.21	32.77	34.41	36.13	37.94	39.84

						TOWN OF PA	RADISE				
					SA	LARY PAY PLAN					
						AS OF FEBRUAR	Y 14, 2023				
Head	Auth	Budget		ours/		Α	В	С	D	E	F
Count	FTE's	FTE	Title V	Veek		Step	Step	Step	Step	Step	Step
1.00	0.90	0.90	FLEET SERVICES SUPER	RVISOR							
	0.00		HOURLY	36		31.21	32.77	34.41	36.13	37.94	39.84
			BIWEEKLY		72	2,247.12	2,359.44	2,477.52	2,601.36	2,731.68	2,868.48
			MONTHLY		156	4,868.76	5,112.12	5,367.96	5,636.28	5,918.64	6,215.04
			ANNUAL		1,872	58,425.12	61,345.44	64,415.52	67,635.36	71,023.68	74,580.48
1.00	1.00	1.00	BUILDING/ONSITE INS	PECTOR	R II						
1.00	1.00	1.00	BUILDING PLANS EXAI								
1.00	1.00	1.00	SENIOR CONSTRUCTION	ON INSP	ECTOR						
1.00	1.00	1.00	SENIOR SUPERVISING	CODE E	NFORCE	MENT OFFICER					
			HOURLY	40		31.21	32.77	34.41	36.13	37.94	39.84
			BIWEEKLY		80	2,496.80	2,621.60	2,752.80	2,890.40	3,035.20	3,187.20
			MONTHLY		173	5,409.73	5,680.13	5,964.40	6,262.53	6,576.27	6,905.60
			ANNUAL		2,080	64,916.80	68,161.60	71,572.80	75,150.40	78,915.20	82,867.20
11.00	11.00	11.00	POLICE OFFICER								
			HOURLY	40		31.98	33.58	35.26	37.02	38.87	40.81
			BIWEEKLY		80	2,558.40	2,686.40	2,820.80	2,961.60	3,109.60	3,264.80
			MONTHLY		173	5,543.20	5,820.53	6,111.73	6,416.80	6,737.47	7,073.73
			ANNUAL		2,080	66,518.40	69,846.40	73,340.80	77,001.60	80,849.60	84,884.80
1.00	0.60	0.60	GIS ANALYST								
			HOURLY	24		33.59	35.27	37.03	38.88	40.82	42.86
			BIWEEKLY		48	1,612.32	1,692.96	1,777.44	1,866.24	1,959.36	2,057.28
			MONTHLY		104	3,493.36	3,668.08	3,851.12	4,043.52	4,245.28	4,457.44
			ANNUAL		1,248	41,920.32	44,016.96	46,213.44	48,522.24	50,943.36	53,489.28
1.00	0.90	0.90	SENIOR ACCOUNTANT								
			HOURLY	36		33.59	35.27	37.03	38.88	40.82	42.86
			BIWEEKLY		72	2,418.48	2,539.44	2,666.16	2,799.36	2,939.04	3,085.92
			MONTHLY		156	5,240.04	5,502.12	5,776.68	6,065.28	6,367.92	6,686.16
			ANNUAL		1,872	62,880.48	66,025.44	69,320.16	72,783.36	76,415.04	80,233.92

	TOWN OF PARADISE SALARY PAY PLAN FY 2022/23											
						AS OF FEBRUAR						
Head	Auth	Budget	Position	Hours/	·	A	В	С	D	E	F	
Count	FTE's	FTE	Title	Week		Step	Step	Step	Step	Step	Step	
							-					
0.00	0.00	0.00	ASSOCIATE PLANNE	R								
0.00	0.00	0.00	GRANT ADMINISTR	ATOR								
0.00	0.00	0.00	SENIOR MANAGEM		_YST							
			HOURLY	40		33.59	35.27	37.03	38.88	40.82	42.86	
			BIWEEKLY		80	2,687.20	2,821.60	2,962.40	3,110.40	3,265.60	3,428.80	
			MONTHLY		173	5,822.27	6,113.47	6,418.53	6,739.20	7,075.47	7,429.07	
			ANNUAL		2,080	69,867.20	73,361.60	77,022.40	80,870.40	84,905.60	89,148.80	
0.00	0.00	0.00	ASSISTANT ENGINE	ER								
			HOURLY	40		35.31	37.08	38.93	40.88	42.92	45.07	
			BIWEEKLY		80	2,824.80	2,966.40	3,114.40	3,270.40	3,433.60	3,605.60	
			MONTHLY		173	6,120.40	6,427.20	6,747.87	7,085.87	7,439.47	7,812.13	
			ANNUAL		2,080	73,444.80	77,126.40	80,974.40	85,030.40	89,273.60	93,745.60	
1.00	0.45	0.45	EMERGENCY OPERA	ATIONS CO	ORDINA	TOR (LESS THAN	I HALF-TIME, PA	ART-TIME/HOU	RLY)			
			HOURLY	18		36.18	37.99	39.89	41.88	43.97	46.17	
1.00	1.00	1.00	ONSITE SANITARY	OFFICIAL								
			HOURLY	40		36.18	37.99	39.89	41.88	43.97	46.17	
			BIWEEKLY		80	2,894.40	3,039.20	3,191.20	3,350.40	3,517.60	3,693.60	
			MONTHLY		173	6,271.20	6,584.93	6,914.27	7,259.20	7,621.47	8,002.80	
			ANNUAL		2,080	75,254.40	79,019.20	82,971.20	87,110.40	91,457.60	96,033.60	
1.00	1.00	1.00	ACCOUNTING MAN	AGER								
			HOURLY	40		37.10	38.96	40.91	42.96	45.11	47.37	
			BIWEEKLY		80	2,968.00	3,116.80	3,272.80	3,436.80	3,608.80	3,789.60	
			MONTHLY		173	6,430.67	6,753.07	7,091.07	7,446.40	7,819.07	8,210.80	
			ANNUAL		2,080	77,168.00	81,036.80	85,092.80	89,356.80	93,828.80	98,529.60	
1.00	1.00	1.00	SENIOR PLANNER									
			HOURLY	40		38.02	39.92	41.92	44.02	46.22	48.53	
			BIWEEKLY		80	3,041.60	3,193.60	3,353.60	3,521.60	3,697.60	3,882.40	
			MONTHLY		173	6,590.13	6,919.47	7,266.13	7,630.13	8,011.47	8,411.87	
			ANNUAL		2,080	79,081.60	83,033.60	87,193.60	91,561.60	96,137.60	100,942.40	

	TOWN OF PARADISE SALARY PAY PLAN FY 2022/23											
				,	AS OF FEBRUA			_	_	_		
Head	Auth	_		ours/	A	В	C	D	E	F		
Count	FTE's	FTE	Title W	'eek	Step	Step	Step	Step	Step	Step		
5.00	5.00	5.00	POLICE SERGEANT									
3.00	3.00	3.00	HOURLY	40	38.97	40.92	42.97	45.12	47.38	49.75		
			BIWEEKLY	-10		3,273.60	3,437.60	3,609.60	3,790.40	3,980.00		
			MONTHLY	173	•	7,092.80	7,448.13	7,820.80	8,212.53	8,623.33		
			ANNUAL	2.080	,	85,113.60	89,377.60	93,849.60	98,550.40	103,480.00		
			-	,	0=,007.100	00,110.00	00,077.00	30,0 .3.00	30,000.10	200, 100.00		
1.00	1.00	1.00	HOUSING PROGRAM N									
1.00	1.00	1.00	INFRASTRUCTURE PRO	_	AGER							
1.00	1.00	1.00	PUBLIC WORKS MANA	GER								
0.00	0.00	0.00	TOWN CLERK									
			HOURLY	40	39.95	41.95	44.05	46.25	48.56	50.99		
			BIWEEKLY	80	,	3,356.00	3,524.00	3,700.00	3,884.80	4,079.20		
			MONTHLY	173	,	7,271.33	7,635.33	8,016.67	8,417.07	8,838.27		
			ANNUAL	2,080	83,096.00	87,256.00	91,624.00	96,200.00	101,004.80	106,059.20		
0.00	0.00	0.00	ASSOCIATE ENGINEER									
2.00	2.00	2.00	CAPITAL PROJECTS MA	NAGER								
1.00	1.00	1.00	PROJECT MANAGER (R	ECOVERY)								
			HOURLY	40	40.93	42.98	45.13	47.39	49.76	52.25		
			BIWEEKLY	80	3,274.40	3,438.40	3,610.40	3,791.20	3,980.80	4,180.00		
			MONTHLY	173	7,094.53	7,449.87	7,822.53	8,214.27	8,625.07	9,056.67		
			ANNUAL	2,080	85,134.40	89,398.40	93,870.40	98,571.20	103,500.80	108,680.00		
0.00	0.00	0.00	ASSISTANT TO THE TO	WN MANAGE	R							
0.00	0.00	0.00	HUMAN RESOURCES N		•							
0.00	0.00	0.00	INFORMATION TECHN		GER							
0.00	0.00	0.00	HOURLY	40	43.01	45.16	47.42	49.79	52.28	54.89		
			BIWEEKLY	80		3,612.80	3,793.60	3,983.20	4,182.40	4,391.20		
			MONTHLY	173	•	7,827.73	8,219.47	8,630.27	9,061.87	9,514.27		
			ANNUAL	2,080	•	93.932.80	98.633.60	103,563.20	108,742.40	114,171.20		
			-	•	•	,	2 2, 300.00			,0		
0.00	0.00	0.00	SURVEYOR (LESS THAN	-	=	•						
			HOURLY	18	44.09	46.29	48.60	51.03	53.58	56.26		

	TOWN OF PARADISE											
					SA	ALARY PAY PLAN	N FY 2022/23					
						AS OF FEBRUAF	RY 14, 2023					
Head	Auth	Budget	Position	Hours/		Α	В	С	D	E	F	
Count	FTE's	FTE	Title	Week		Step	Step	Step	Step	Step	Step	
0.00	0.00	0.00	BUILDING OFFICIAL									
0.00	0.00	0.00	COMMUNITY DEVE		MANAG	ER						
0.00	0.00	0.00	FIRE MARSHALL									
1.00	1.00	1.00	SENIOR CAPITAL PR	OJECTS M	ANAGER							
			HOURLY	40		44.09	46.29	48.60	51.03	53.58	56.26	
			BIWEEKLY		80	3,527.20	3,703.20	3,888.00	4,082.40	4,286.40	4,500.80	
			MONTHLY		173	7,642.27	8,023.60	8,424.00	8,845.20	9,287.20	9,751.73	
			ANNUAL		2,080	91,707.20	96,283.20	101,088.00	106,142.40	111,446.40	117,020.80	
2.00	2.00	2.00	POLICE LIEUTENAN	т								
0.00	0.00	0.00	PRINCIPAL ENGINE	ER								
			HOURLY	40		47.48	49.85	52.34	54.96	57.71	60.60	
			BIWEEKLY		80	3,798.40	3,988.00	4,187.20	4,396.80	4,616.80	4,848.00	
			MONTHLY		173	8,229.87	8,640.67	9,072.27	9,526.40	10,003.07	10,504.00	
			ANNUAL		2,080	98,758.40	103,688.00	108,867.20	114,316.80	120,036.80	126,048.00	
1.00	1.00	1.00	ENGINEERING DIVI	SION MAN	AGER							
			HOURLY	40		49.88	52.37	54.99	57.74	60.63	63.66	
			BIWEEKLY		80	3,990.40	4,189.60	4,399.20	4,619.20	4,850.40	5,092.80	
			MONTHLY		173	8,645.87	9,077.47	9,531.60	10,008.27	10,509.20	11,034.40	
			ANNUAL		2,080	103,750.40	108,929.60	114,379.20	120,099.20	126,110.40	132,412.80	
0.00	0.00	0.00	DISASTER RECOVER	RY DIRECTO	OR							
1.00	1.00	1.00	HUMAN RESOURCE	S & RISK N	MANAGE	MENT DIRECTO	R					
1.00	1.00	1.00	INFORMATION SYS	TEMS DIRE	CTOR							
1.00	1.00	1.00	TOWN CLERK / ELE		FICIAL							
			HOURLY	40		53.71	56.40	59.22	62.18	65.29	68.55	
			BIWEEKLY		80	4,296.80	4,512.00	4,737.60	4,974.40	5,223.20	5,484.00	
			MONTHLY		173	9,309.55	9,775.81	10,264.60	10,777.66	11,316.72	11,881.77	
			ANNUAL		2,080	111,716.80	117,312.00	123,177.60	129,334.40	135,803.20	142,584.00	

						TOWN OF PA	ARADISE					
						ALARY PAY PLAI	•					
						AS OF FEBRUAR			_			
Head	Auth		Position	Hours/		Α	В	С	D	E	F	
Count	FTE's	FTE	Title	Week		Step	Step	Step	Step	Step	Step	
0.00	0.00	0.00	ADMINISTRATIVE	SERVICES D	IRFCTOR	/TOWN TREAS	JRFR					
1.00	1.00	1.00		DMINISTRATIVE SERVICES DIRECTOR/TOWN TREASURER OMMUNITY DEVELOPMENT DIRECTOR - BUILDING & CODE ENFORCEMENT								
1.00	1.00	1.00	COMMUNITY DE	_				_				
1.00	1.00	1.00	FINANCE DIRECT	_		_	a					
1.00	1.00	1.00	RECOVERY & ECO	-								
			HOURLY			59.28	62.24	65.35	68.62	72.05	75.65	
			BIWEEKI	_Y	80	4,742.40	4,979.20	5,228.00	5,489.60	5,764.00	6,052.00	
			MONTH	LY	173	10,275.20	10,788.27	11,327.33	11,894.13	12,488.67	13,112.67	
			ANNUAL	-	2,080	123,302.40	129,459.20	135,928.00	142,729.60	149,864.00	157,352.00	
0.00	0.00	0.00	ASSISTANT TOW	N MANAGER								
1.00	1.00	1.00	POLICE CHIEF									
1.00	1.00	1.00	PUBLIC WORKS D	IRECTOR/TO	WN ENG	GINEER						
			HOURLY	40		60.78	63.82	67.01	70.36	73.88	77.57	
			BIWEEKI	_Y	80	4,862.40	5,105.60	5,360.80	5,628.80	5,910.40	6,205.60	
			MONTH	LY	173	10,535.00	11,061.92	11,614.84	12,195.50	12,805.62	13,445.21	
			ANNUAL	-	2,080	126,422.40	132,745.60	139,380.80	146,348.80	153,670.40	161,345.60	
1.00	1.00	1.00	TOWN MANAGE	R								
			HOURLY	40		72.24	75.85	79.64	83.62	87.80	92.19	
			BIWEEKI	_Y	80	5,779.20	6,068.00	6,371.20	6,689.60	7,024.00	7,375.20	
			MONTH	LY	173	12,521.36	13,147.08	13,804.00	14,493.85	15,218.37	15,979.29	
			ANNUAL	=	2,080	150,259.20	157,768.00	165,651.20	173,929.60	182,624.00	191,755.20	
99.00	93.80	93.80	FTE's									

	Adjustment Summary: February 14, 2023										
Budget Fund (Department)	Adjustment Item	GL Budget Code	Adjustment Description	Amount							
General (Clerk)	Office Supplies	1010.15.4100.5201.100	Office supplies - offset by election expense savings reallocation	1,700 Actual expense							
General (Clerk)	Website Program	1010.15.4100.5213.100	Monsido website program for ADA accessibility - offset by election expense savings reallocation	2,760 Actual expense							
General (Clerk)	Anticipated Overtime (Succession Planning)	1010.15.4100.5105	Overtime for Deputy Town Clerk to attend Planning Commission meetings for succession planning - offset by election expense savings reallocation	360 Estimated expense							
General (Clerk)	Conference Attendance	1010.15.4100.5220.100	CCAC Town Clerk Conference Attendance - offset by election expense savings reallocation	1,500 Estimated expense							
General (Clerk)	Budget Reallocation from Election Expenses	1010.15.4100.5221	Budget reallocation from election expenses under budget	(6,320) Actual expense							
General (IT)	Technology Fee Transfer	1010.20.4202.5199.199	Additional cost of contracted services compared to original budget estimate to support IT Function - offset by IT Tech Fee Transfer In	(50,000) Estimated expense							
General (IT)	Contracted Services	1010.20.4202.5213.100	Additional cost of contracted services compared to original budget estimate to support IT Function - offset by IT Tech Fee Transfer In	50,000 Estimated expense							
General (Finance)	Senior Accountant Reduced Hours	1010.25.4400.5001	Senior Accountant reduced hours from 40/wk to 36/wk (remainder of fiscal year impact beginning 02/15/23)	(4,000) Estimated expense							
General (PD Admin)	Front Door / Admin Asst Office	1010.30.4510.5303	Actual cost overage expected for PD Station front door repairs & admin asst office enclosure	1,200 Actual expense							
General (PD Admin)	Body Worn / In Vehicle Camera Connectivity	1010.30.4510.5216.100	Additional cost for connectivity of 6 in vehicle / body worn cameras (approx. \$2,200 / year)	2,200 Estimated expense							
General (Fleet) General (Fleet)	Operating Supplies Repairs and Maintenance Supplies	1010.30.4550.5202.100 1010.30.4550.5203.100	Operating supplies needed to maintain fleet for remainder of fiscal year Repair and maintenance supplies needed to maintain fleet for remainder of fiscal year	4,000 Estimated expense 55,000 Estimated expense							
General (Fleet)	Repairs and Maintenance Supplies Fuel			1,000 Estimated expense							
General (Fleet)	Repairs and Maintenance Services	1010.30.4550.5209.101 1010.30.4550.5214.100	Fuel needed to support fleet for remainder of fiscal year Repair and maintenance services needed to maintain fleet for remainder of fiscal year	10,000 Estimated expense							
General (Fire Admin)	Hazmat JPA	1010.35.4610.5213.100	Repair and maniferiance services needed to maintain neet for terrainder or insical year Increased cost of Hazmat JPA annual membership above original budget due to increased population of Town for current fiscal year	550 Actual expense							
General (EOC)	Printing / Operating Supplies	1010.35.4615.5202.100	increased to so in razinat unit a manufacturi paove original bodget que do increased population or fown for current inscar year. Increase in budget to allow for printing / lamination of Town maps and restocking of EOC supplies.	1,100 Actual expense							
General (PW Engineering)	Engineering Intern	1010.45.4740.5000	Inclease in Jought to allow for printing / animation of Town maps and resourcing of Loc supplies Engineering Intern (3 months of the fiscal year)	11,250 Estimated expense							
General (PW Engineering)	Engineering Admin Assistant Increased Hours	1010.45.4740.5000	Engineering inclination the library state year) Engineering Admin Assistant Increased Hours from 24/wk to 36/wk (remainder of fiscal year impact beginning 02/15/23)	7,000 Estimated expense							
General (PW Engineering)	Encroachment Permit Fee Revenues	1010.45.4740.3000	Engineering Annini Assistant introcased industrion (24WK to 55WK (terrained or inscal year impact beginning 02 (1925) Additional temporary staffing for public works inspections - offset by additional encroachment permit fee revenues	(40,000) Estimated expense							
General (PW Engineering)	Professional contract services	1010.45.4740.5213.100	Additional temporary staffing for public works inspections - offset by additional encodement permit fee revenues	40,000 Actual expense							
General (PW Engineering)	Professional contract services	1010.45.4740.5213.100	Additional costs related to recruitment and hiring of capital projects managers	5,000 Actual expense							
General (PW Engineering)	Advertising	1010.45.4740.5218.100	Advertising for engineering department positions	1,500 Actual expense							
General (PW Engineering)	Salaries savings	1010.45.4740.5101	Savings in total salaries budget to be reallocated towards advertising for engineering department positions	(1,500) Estimated expense							
General (PW Facilities)	Fuel Island Installation	1010.45.4747.5214.100	Increase budget for Fuel Island Installation from original \$10k estimate to \$22k actual quote (offset by reduction in Tire Program Tools budget)	12.000 Estimated expense							
General (PW Fleet)	Reduction in Tire Program Tools Budget	1010.30.4550.5304	Increase budget for Fuel Island Installation from original \$10k estimate to \$22k actual quote (offset by reduction in Tire Program Tools budget)	(12,000) Estimated expense							
General (Revenues)	Transfer in from PGE Fund	1010.00.0000.3910.700	Additional transfer from PG&E Fund related to proposed adjustments	(105,500) Total Proposed GF adjustments							
PGE Fund	Transfer out to General Fund	7700.00.0000.5910.010	Additional transfer from PG&E Fund related to proposed adjustments	105,500 Total Proposed GF adjustments							
General (Finance)	Accounting Analyst	1010.25.4400.5001	Accounting Analyst position - General Fund portion of expected staff time (40%) (remainder of fiscal year impact beginning 02/15/23)	11,200 Estimated expense							
Gas Tax (Finance)	Accounting Analyst	2120.45.4750.5001	Accounting Analyst position - Grants Project portion of expected staff time (60%) (remainder of fiscal year impact beginning 02/15/23)	16,800 Estimated expense							
General (Measure V)	Utility 81	1010.25.4420.326.5304	Additional anticipated cost of Utility Vehicle purchase (\$100,000 anticipated total cost, net of \$70,000 current budget)	30,000 Estimated expense							
General (Measure V)	Animal Control Truck Additional Funding	1010.25.4420.303.5910.070	Transfer out from Measure V for additional AC Truck funding	7,000 Estimated expense							
General (Measure V)	Animal Control Truck Additional Funding	2070.30.4540.3910.010	Transfer in from Measure V for additional AC Truck funding	(7,000) Estimated expense							
General (Measure V)	Animal Control Truck Additional Funding	2070.30.4540.5305	Additional funding for AC Truck Actual costs greater than original budget	7,000 Estimated expense							
General (Measure V)	In-vehicle Cameras	1010.25.4420.301.5304	In Vehicle Cameras for 3 new Chevy Tahoes	32,000 Estimated expense							
General (Measure V)	K9 Upfit	1010.25.4420.301.5304	K9 Upfit in new Chevy Tahoe for 1 additional K9	4,000 Estimated expense							
General (Measure V)	K9 Training	1010.25.4420.301.5213.100	Additional K9 maintenance training for 1 additional K9 expected to begin 01/01/23	2,000 Estimated expense							
General (Measure V)	Street Sweeper Local Share	1010.25.4420.350.5910.100	Reduce Transfer out of General Fund (Measure V) to Gas Tax Fund for Public Works street sweeper - net of \$156,000 USDA Grant	(75,000) Estimated expense							
Gas Tax	Street Sweeper Local Share	2120.45.4750.3910.010 2120.45.4750.3901.100	Transfer in to Gas Tax Fund from General Fund (Measure V) for Public Works street sweeper - net of \$156,000 USDA Grant	(75,000) Estimated expense 75.000 Estimated expense							
Gas Tax Gas Tax	Street Sweeper Local Share		Expected revenue from NRWS to be applied toward street sweeper purchase								
BSWW	Chevy Colorado - Final Payment Facility Improvements Reallocation	2120.45.4750.5501 2030.40.4730.5303	Final reduced book value payment for 2018 Chevy Colorado - due at lease termination Budget reallocation from wastewater facility improvements to be applied toward Chevy Colorado lease termination	5,700 Actual expense (5,700) Actual expense							
BSWW	Chevy Colorado - Final Payment	2030.40.4730.5501	budget reamount into wastewater racing improvements to be applied toward cheey Cotorado rease termination. Final reduced book value payment for 2018 Cheey Cotorado - due at lease termination.	5,700 Actual expense							
Gas Tax	Insurance Revenues	2120.45.4750.3901.100	Prina reduced book value payment to 210 Creey Colorado - que at lease en imination Damaged traffic signal repairs - costs expected to be recovered through insurance reimbursement	(10,000) Estimated expense							
Gas Tax	Operating Supplies	2120.45.4750.5301.100	Denting supplies, including essential personal protective equipment, needed to maintain streets for remainder of fiscal year	4,000 Estimated expense							
Gas Tax	Repairs and Maintenance Supplies	2120.45.4750.5202.100	Repair and maintenance supplies needed to maintain streets for remainder of fiscal year (\$30k year gmmt, \$25k signals, \$10k signs, \$5k drainage)	70,000 Estimated expense							
Gas Tax	Rents and Leases	2120.45.4750.5205.100	Repair and immeniance suppries needed to maintain steess or in tenantical or inscar gear good reg might, \$20x signiss, \$10x signis, \$0x signiss, \$0x	15,500 Estimated expense							
Gas Tax	Insurance Reimbursement for Rented Equipment	2120.45.4750.3901.100	Additional rental costs for equipment damaged during the Camp Fire - offset by expected insurance reimbursement	(15.500) Estimated expense							
Camp Fire Recovery Fund	Insurance Reimbursement for Rented Equipment	2090.00.0000.3901.145	Additional rental costs for equipment damaged during the Camp Fire - offset by expected insurance reimbursement	(15,500) Estimated expense							
Camp Fire Recovery Fund	Insurance Reimbursement for Rented Equipment	2090.00.0000.556.5910.120	Additional rental costs for equipment damaged during the Camp Fire - offset by expected insurance reimbursement	15,500 Estimated expense							
Business & Housing	Temporary Staffing to Support Program	2160.55.4800.5213.100	Full time temporary staff member to support program activities for remainder of fiscal year	20,000 Estimated expense							
Business & Housing	Temporary Staffing to Support Program	2160.55.4800.3910.420	Transfer in to Business & Housing Services Fund from CalHOME Fund for expected activity delivery revenue	(20,000) Estimated expense							
Business & Housing	Temporary Staffing to Support Program	2420.55.0000.5910.160	Transfer in to Business & Housing Services Fund from CalHOME Fund for expected activity delivery revenue	20,000 Estimated expense							
Business & Housing	Temporary Staffing to Support Program	2420.55.0000.3340.100	Expected activity delivery revenue	(20,000) Estimated expense							
CIP / DR	9394 Downtown Sewer Environmental Study	2100.50.8901.9394	Additional costs expected over original budget amount for FY 2022-23	350,000 Actual expense							
CIP / DR	9394 Downtown Sewer Environmental Study	2100.50.8901.3910.130	Additional costs expected over original budget amount for FY 2022-23 - Transfer in to CIP Program Fund	(350,000) Actual expense							
CIP / DR	9394 Downtown Sewer Environmental Study	2130.00.0000.5910.100	Additional costs expected over original budget amount for FY 2022-23 - Transfer out to CIP Program Fund	350,000 Actual expense							
CIP / DR	9394 Downtown Sewer Environmental Study	2130.00.0000.3340.200	Additional costs expected over original budget amount for FY 2022-23 - State Water Board Additional Revenue	(350,000) Actual expense							
CIP / DR	7301 On system Culvert Replacement	2105.65.4205.7301	Additional costs expected over original budget amount for FY 2022-23	37,000 Estimated expense							
CIP / DR	7302 On system Hardscape Replacement	2105.65.4205.7302	Additional costs expected over original budget amount for FY 2022-23	150,000 Estimated expense							
CIP / DR	7302 On system Hardscape Replacement	2105.65.4205.3910.139	Additional costs expected over original budget amount for FY 2022-23 (7301 & 7302) - Transfer in From FHWA Funds	(165,551) Estimated expense							
CIP / DR	7302 On system Hardscape Replacement	2105.65.4205.3910.301	Additional costs expected over original budget amount for FY 2022-23 (7301 & 7302) - Transfer in From CDBG-DR Funds	(21,449) Estimated expense							
CIP / DR	7302 On system Hardscape Replacement	2139.00.0000.3310.200	Additional costs expected over original budget amount for FY 2022-23 (7301 & 7302) - FHWA Funds Revenues	(165,551) Estimated expense							
CIP / DR	7302 On system Hardscape Replacement	2139.00.0000.5910.105	Additional costs expected over original budget amount for FY 2022-23 (7301 & 7302) - Transfer Out to Disaster Recovery Projects	165,551 Estimated expense							
CIP / DR	7302 On system Hardscape Replacement	2301.65.4205.3310.099	Additional costs expected over original budget amount for FY 2022-23 (7301 & 7302) - CDBG-DR Funds Revenues	(21,449) Estimated expense							
CIP / DR	7302 On system Hardscape Replacement	2301.65.4205.5910.105	Additional costs expected over original budget amount for FY 2022-23 (7301 & 7302) - Transfer Out to Disaster Recovery Projects	21,449 Estimated expense							
Tech Equipment	Transfer out to General Fund	7627.00.0000.5199.199	Transfer out to General Fund for additional IT professional services	50,000 Estimated expense							

\$	242,000	Total Financial Impact

	Financial Impact Fund Distribution								
\$	105,500	General Fund (Non-Measure V)							
\$ \$ \$ \$ \$	-	General Fund (Measure V)							
\$	86,500	Gas Tax Fund							
\$	50,000	Tech Equipment Replacement							
\$	105.500	PG&F Settlement Fund							

TOWN OF PARADISE Budget Worksheet Report as of January 30, 2023

Account Number	Account Description	FY 2021-22 Unaudited Actual Amount	FY 2022-23 Adopted Budget	FY 2022-23 Amended Budget	FY 2022-23 Actuals to Date	FY 2022-23 Proposed Amendments	FY 2022-23 Proposed Amended Budget
	Account Description						
Fund: 1010 - General Fund							
REVENUES							
Department: 00 - Non Depart	,						
Program: 0000 - Non Prog	•						
3110.311	Property Tax Current Secured	2,368,023	2,340,000	2,340,000	1,680,279	-	2,340,000
3110.312	Property Tax Current Unsecured	107,575	116,500	116,500	134,420	-	116,500
3110.315	Property Tax Prior Secured/Unsecured	3,254	5,000	5,000	2,461	-	5,000
3110.320	Property Tax General Supplemental	43,459	40,000	40,000	21,473	-	40,000
3130.325	General Sales and Use Tax Sales and Use Tax	1,198,929	1,000,000	1,000,000	304,142	-	1,000,000
3167.330	Real Property Transfer Tax Real Property Transfer Tax	101,168	85,000	85,000	48,966	-	85,000
3182.335	Franchise Taxes Franchise Taxes	386,817	347,000	347,000	79,634	-	347,000
3185.340	Transient Occupancy Tax Transient Occupancy Tax	225,722	200,000	200,000	59,254	-	200,000
3210.110	Business Licenses and Permits Business Regulation	9,133	7,500	7,500	6,647	-	7,500
3210.120	Business Licenses and Permits Bingo Regulation	42	-	-	-	-	-
3215.100	DOJ/FBI Fees Fingerprinting/Processing	(2,271)	-	-	(1,842)	-	-
3351.001	Property Tax Homeowners Apportionment	22,404	15,000	15,000	3,873	-	15,000
3356.001	State Motor Vehicle In Lieu Motor Vehicle In Lieu Tax	1,067,604	1,097,000	1,097,000	659,794	-	1,097,000
3410.104	Administrative Services Returned Check Processing	307	150	150	102	-	150
3410.107	Administrative Services Electronic Audio Reproduction	12	-	-	-	-	-
3410.112	Administrative Services Printed Material Production/Sale	-	-	-	0	-	-
3410.113	Administrative Services Document Copying	138	50	50	8	-	50
3410.114	Administrative Services Document Certification	180	150	150	165	-	150
3610.100	Interest Revenue Investments	5,150	15,000	15,000	4,085	-	15,000
3630.200	Rents and Royalties Billboard Rents and Leases	440	440	440	240	-	440
3901.100	Refunds and Reimbursements Miscellaneous	25,740	2,000	2,000	1,051	-	2,000
3901.145	Refunds and Reimbursements Insurance Proceeds	1,071,088	-	-	-	-	-
3902.100	Miscellaneous Revenue General	14,192	4,000	5,500	1,950	-	5,500
3902.110	Miscellaneous Revenue Cash Over and Short	78	-	-	5	-	-
3910.030	Transfers In From Development Services Fund	262,686	341,836	341,836	-	-	341,836
3910.070	Transfers In From Animal Control	54,357	66,344	66,344	-	-	66,344
3910.090	Transfers In From Camp Fire Recovery	60,264	94,749	94,749	-	-	94,749
3910.095	Transfers In From COVID-19 Fund	-	102,000	361,000	-	-	361,000
3910.110	Transfers In From Local Transportation Fund	5,091	7,568	7,568	-	-	7,568

Account Number	Account Description	FY 2021-22 Unaudited Actual Amount	FY 2022-23 Adopted Budget	FY 2022-23 Amended Budget	FY 2022-23 Actuals to Date	FY 2022-23 Proposed Amendments	FY 2022-23 Proposed Amended Budget
3910.120	Transfers In From State Gas Tax Fund	353,824	225,147	225,147	-		225,147
3910.130	Transfers In From State Water Board Prop 1	361	-	-	-	-	-
3910.138	Transfers In From USDA Fund	-	70,500	104,000	-	-	104,000
3910.140	Transfers In From Traffic Safety Fund	2,250	2,250	2,250	-	-	2,250
3910.160	Transfers In From BHS Development Svcs Fund	76,274	73,096	73,096	-	-	73,096
3910.215	Transfers In From Aband Vehicle Abate Fund	26,858	16,500	16,500	2,159	-	16,500
3910.628	Transfers In From Gen Plan Fee	-	800,000	800,000	-	-	800,000
3910.650	Transfers In From Successor Agency to RDA NH	16,200	16,200	16,200	-	-	16,200
3910.700	Transfers In From PG&E Settlement Fund	5,581,881	10,985,377	11,175,297	3,695,973	105,500	11,280,797
	Program Total: 0000 - Non Program Activity	13,089,230	18,076,357	18,560,277	6,704,838	105,500	18,665,777
	Department Total: 00 - Non Department Activity	13,089,230	18,076,357	18,560,277	6,704,838	105,500	18,665,777
Department: 25 - Finance							
Program: 4420 - Measu	re C/V TUT						
3130.326	General Sales and Use Tax Transactions and Use Tax (TUT)	1,299,723	1,200,000	1,200,000	384,685	-	1,200,000
	Program Total: 4420 - Measure C/V TUT	1,299,723	1,200,000	1,200,000	384,685	-	1,200,000
Program: 5005 - Rental	Properties						
3901.100	Refunds and Reimbursements Miscellaneous	528	400	400	284		400
	Program Total: 5005 - Rental Properties	528	400	400	284	-	400
	Department Total: 25 - Finance	1,300,250	1,200,400	1,200,400	384,969	-	1,200,400

FY 2021-22

Accour	nt Number	Account Description	FY 2021-22 Unaudited Actual Amount	FY 2022-23 Adopted Budget	FY 2022-23 Amended Budget	FY 2022-23 Actuals to Date	Proposed Amendments	Proposed Amended Budget
Department:	30 - Police							
Program:	0000 - Non Progr	am Activity						
		Federal Revenue - Other Refunds and		2.000	2.000			2.000
3320.1		Reimbursements	-	2,000	2,000	-	-	2,000
3345.0	004	State Revenues - Other POST Reimbursements	858	5,000	5,000	2,474	-	5,000
3345.1	100	State Revenues - Other Refunds & Reimbursements	52	250	250	-	-	250
3380.1	100	Local Government Revenue Fines and Forfeitures	24,468	15,000	15,000	10,464	-	15,000
3380.1	106	Local Government Revenue Administrative Citations Police	100	400	400	-	-	400
3380.1	112	Local Government Revenue Property Room Proceeds	-	400	400	-	-	400
3421.1	100	Police Vehicle Repossession	-	100	100	27	-	100
3421.1	105	Police Cite Sign Off / VIN Verification	305	500	500	23	-	500
3421.1	110	Police DUI Accident & Arrest Processing	1,057	500	500	242	-	500
3421.1	111	Police Vehicle Impound Fee	1,446	500	500	482	-	500
3421.1	115	Police Police Report (Copy)	18	10	10	27	-	10
3421.1	120	Police Fingerprint Processing	4,712	2,500	2,500	3,378	-	2,500
3421.1	122	Police Visa/Clearance Letter	31	31	31	31	-	31
3421.1	130	Police Reproduce/Sale of Tapes & Photos	170	50	50	113	-	50
3421.1	140	Police Alarm System Registration	1,531	750	750	214	-	750
3421.1	141	Police False Alarm Response	2,808	500	500	119	-	500
3421.1	180	Police Special Services	-	250	250	275	-	250
3421.1	187	Police Subpoena Duces Tecum	63	-	-	47	-	-
3901.1	100	Refunds and Reimbursements Miscellaneous	40,348	1,500	1,500	43,435	-	1,500
3901.1	140	Refunds and Reimbursements Negligence Cost Recovery Fees	989	-	-	-	-	-
3902.1	100	Miscellaneous Revenue General	288	100	100	330	-	100
3910.0	010	Transfers In From General Fund	3,069	3,070	3,070	-	-	3,070
3910.1	138	Transfers In From USDA Fund	3,148	3,148	3,148	-		3,148
		Program Total: 0000 - Non Program Activity	85,461	36,559	36,559	61,684	-	36,559
		Department Total: 30 - Police	85,461	36,559	36,559	61,684	-	36,559
Department: Program:	35 - Fire 0000 - Non Progr	am Activity						
3345.1	100	State Revenues - Other Refunds & Reimbursements	302,196	75,000	75,000	122,813	-	75,000
3380.1	103	Local Government Revenue Fines and Citations Fire	36,650	-	-	(500)	-	-
3422.3	304	Fire Fuel Reduction Burn Permit	6,980	10,000	10,000	3,466	-	10,000
3422.3	315	Fire Residential Burning Regulation	13,393	10,000	10,000	4,377	-	10,000
3422.3	338	Fire Fire Flow/Hydrant Location	22	-	-	200	-	-

FY 2022-23

FY 2022-23

Account Number	Account Description	FY 2021-22 Unaudited Actual Amount	FY 2022-23 Adopted Budget	FY 2022-23 Amended Budget	FY 2022-23 Actuals to Date	FY 2022-23 Proposed Amendments	FY 2022-23 Proposed Amended Budget
3901.100	Refunds and Reimbursements Miscellaneous	-	_	-	52,500	-	-
3902.100	Miscellaneous Revenue General	1,706	-	-	-	-	-
3910.135	Transfers In From FEMA Reimb Fund SAFER	805,372	-	-	-	-	-
	Program Total: 0000 - Non Program Activity	1,166,319	95,000	95,000	182,855	-	95,000
	Department Total: 35 - Fire	1,166,319	95,000	95,000	182,855	-	95,000
Department: 40 - Comr	nunity Development						
Program: 4720 - CDI	Planning						
3380.101	Local Government Revenue Fines and Citations Comm Develop	12,400	8,000	8,000	-	-	8,000
3400.101	CDD Planning Appeals Review	104	-	-	-	-	-
3400.104	CDD Planning Tentative Parcel Map	2,074	1,754	1,754	-	-	1,754
3400.109	CDD Planning Street Address Change Review	-	176	176	-	-	176
3400.111	CDD Planning Landscape Plan	849	1,136	1,136	849	-	1,136
3400.130	CDD Planning General Plan Amend and Rezoning	-	2,907	2,907	-	-	2,907
3400.139	CDD Planning Research on Request	94	94	94	-	-	94
3400.170	CDD Planning Use Permit Class A	2,828	2,121	2,121	2,828	-	2,121
3400.171	CDD Planning Use Permit Class B	3,759	-	-	-	-	-
3400.173	CDD Planning Temporary Use Permit	3,991	3,000	3,000	2,249	-	3,000
3400.174	CDD Planning Administrative Permit	16,682	12,000	12,000	12,379	-	12,000
3400.176	CDD Planning Home Occupation Permit	-	-	-	263	-	-
3400.178	CDD Planning Site Plan/Use Permit Mod Class B	-	-	-	652	-	-
3400.184	CDD Planning Site Plan Review Class A	660	660	660	1,320	-	660
3400.185	CDD Planning Site Plan Review Class B	-	-	-	1,002	-	-
3400.200	CDD Planning Tree Felling Permit	49	-	-	-	-	-
3400.307	CDD Planning Design Review Application	1,581	1,756	1,756	1,976	-	1,756
3901.100	Refunds and Reimbursements Miscellaneous	-	-	-	435	-	-
3910.628	Transfers In From Gen Plan Fee	201,178	-	-	24,962		-
	Program Total: 4720 - CDD Planning	246,250	33,604	33,604	48,914	-	33,604

Accoun	nt Number	Account Description	FY 2021-22 Unaudited Actual Amount	FY 2022-23 Adopted Budget	FY 2022-23 Amended Budget	FY 2022-23 Actuals to Date	FY 2022-23 Proposed Amendments	FY 2022-23 Proposed Amended Budget
Program:		Waste Management	15 104	15 500	15 500	0.002		15 500
3182.3		Franchise Taxes Franchise Taxes Local Government Revenue Fines and Citations	15,184	15,500	15,500	8,892	-	15,500
3380.1	104	Waste Mgmt	100	-	-	-	-	-
		Program Total: 4780 - CDD - Waste Management	15,284	15,500	15,500	8,892	-	15,500
		Department Total: 40 - Community Development	261,534	49,104	49,104	57,807	-	49,104
Department:	45 - Public V							
Program:		Works - Engineering						
3402.2		PW Engineering Final Parcel Map	-	-	-	2,592	-	-
3402.2		PW Engineering Engineering Site Plan	1,037	1,000	1,000	518	-	1,000
3402.2	224	PW Engineering Grading Check/Inspection	14,229	7,500	7,500	2,761	-	7,500
3402.2	226	PW Engineering Cert of Correction with Hearing	2,333	-	-	1,462	-	-
3402.2	227	PW Engineering Lot Merger Review	4,666	7,500	7,500	3,629	-	7,500
3402.2	228	PW Engineering Lot Line Adjustment	4,536	4,000	4,000	3,629	-	4,000
3402.2	230	PW Engineering Engineer Drain Plan/Calc Review	18,534	20,000	20,000	415	-	20,000
3402.2	232	PW Engineering Erosion Control Plan Review	389	-	-	-	-	-
3402.2	250	PW Engineering Oversized Vehicle Regulation	4,360	5,000	5,000	2,354	-	5,000
3402.2	270	PW Engineering Encroachment Permit Fees	293,133	250,000	272,950	245,779	40,000	312,950
	P	Program Total: 4740 - Public Works - Engineering	343,218	295,000	317,950	263,139	40,000	357,950
Program:	4745 - Paradi	se Community Park						
3470.2	251	Parks & Recreation Space Rental	1,730	1,000	1,000	-	-	1,000
		Program Total: 4745 - Paradise Community Park	1,730	1,000	1,000	-	-	1,000
		Department Total: 45 - Public Works	344,948	296,000	318,950	263,139	40,000	358,950
		REVENUES Total	16,247,741	19,753,420	20,260,290	7,655,292	145,500	20,405,790
EXPENSES								
Department:	00 - Non Del	partment Activity						
Program:	0000 - Non P	rogram Activity						
5213.1	100	Professional/Contract Services General	124,824	100,000	100,000	28,319	-	100,000
5225		Bank Fees and Charges	4,638	3,500	3,500	1,640	-	3,500
5501		Debt Service Payment - Principal	484,425	469,658	469,658	-	-	469,658
5502		Debt Service Payment - Interest	640,575	685,342	685,342	-	-	685,342
5910.0)90	Transfers Out To Camp Fire 2018 Recovery	-	373,273	373,273	-	-	373,273
5910.1		Transfers Out To Camp Fire Recovery Projects	68,812	60,000	60,000	-	-	60,000
5910.6		Transfers Out To Successor Agency RDA NH	-	40,500	40,500	-	-	40,500
5910.9	923	Transfers Out To TOP Housing Loan Fund		2,500	2,500	-	-	2,500
		Program Total: 0000 - Non Program Activity	1,323,274	1,734,773	1,734,773	29,959	-	1,734,773
		Department Total: 00 - Non Department Activity	1,323,274	1,734,773	1,734,773	29,959	-	1,734,773

Account Number	Account Description	FY 2021-22 Unaudited Actual Amount	FY 2022-23 Adopted Budget	FY 2022-23 Amended Budget	FY 2022-23 Actuals to Date	FY 2022-23 Proposed Amendments	FY 2022-23 Proposed Amended Budget
Department: 10 - Legislat							
Program: 4000 - Town							
5101	Salaries - Permanent	18,000	18,000	18,000	10,500	-	18,000
5107	Car Allowance/Mileage	5,501	5,400	5,400	3,150	-	5,400
5111	Medicare	339	339	339	198	-	339
5112.102	GASB 68 - Pension Expense Social Security	1,451	1,451	1,451	846	-	1,451
5113	Worker's Compensation	124	160	160	80	-	160
5115	Unemployment Compensation	(570)	-	-	-	-	-
5202.100	Operating Supplies General	229	50	50	170	-	50
5213.100	Professional/Contract Services General	570	475	475	-	-	475
5219.100	Printing General	54	100	100	43	-	100
5220.100	Employee Development General	10,267	11,625	13,125	5,136	-	13,125
5223.105	Meals and Refreshments Emergencies and Meetings	102	-	-	-	-	-
	Program Total: 4000 - Town Council	36,066	37,600	39,100	20,123	-	39,100
	Department Total: 10 - Legislative	36,066	37,600	39,100	20,123	-	39,100
Department: 15 - Town Cl Program: 4100 - Town							
5101	Salaries - Permanent	155,022	179,809	179,809	93,933	_	179,809
5105	Salaries - Overtime/FLSA	304	179,009	179,009	-	360	360
5106.100	Incentives & Admin Leave Administrative Leave	4,529	6,870	6,870	_	-	6,870
5107	Car Allowance/Mileage	-	2,400	2,400	1,323		2,400
5111	Medicare	2,207	2,742	2,742	1,383		2,742
5112.101	GASB 68 - Pension Expense PERS	33,961	37,301	37,301	28,987	-	37,301
5113	Worker's Compensation	1,124	935	935	465	_	935
5114.101	Health Insurance Medical	15,636	19,662	19,662	10,165	_	19,662
5114.102	Health Insurance Dental	1,857	19,002	15,002	968	_	19,002
5114.103	Health Insurance Vision	1,837	-	_	76	_	_
5115	Unemployment Compensation	-	-	_	649	_	_
5116.101	Life and Disability Insurance Life & Disab.	499	2,006	2,006	362	_	2,006
5116.102	Life and Disability Insurance Long Term/Short Term Disability	1,211	-,	-	792	-	-
5119.100	Retiree Costs Medical Insurance	4,591	4,675	4,675	2,337	_	4,675
5201.100	Office Supplies General	247	250	250	1,461	1,700	1,950
5202.100	Operating Supplies General	1,225	235	235	-	-	235
5204	Subscriptions and Code Books	307	350	350	71	_	350
5210.100	Postage General	105	150	150	48	_	150
5213.100	Professional/Contract Services General	13,004	27,581	27,581	15,436	2,760	30,341
5214.100	Repair and Maint Service General	11,349	11,415	11,415	6,066	-	11,415

	Account Number	Account Description	FY 2021-22 Unaudited Actual Amount	FY 2022-23 Adopted Budget	FY 2022-23 Amended Budget	FY 2022-23 Actuals to Date	FY 2022-23 Proposed Amendments	FY 2022-23 Proposed Amended Budget
-		•	708	000	000	405		000
	5215.106	Rents and Leases Copiers		900	900	495	-	900
	5218.100	Advertising General	3,024	6,500	6,500	1,462	-	6,500
	5219.100	Printing General	48	50	50	38	-	50
	5220.100	Employee Development General	5,157	5,700	5,700	3,882	1,500	7,200
	5221	Election-County Services	-	25,000	25,000	12,908	(6,320)	18,680
	5304	Furniture & Equipment	-	-	-	-	-	-
		Program Total: 4100 - Town Clerk	256,244	334,531	334,531	183,306	-	334,531
		Department Total: 15 - Town Clerk	256,244	334,531	334,531	183,306	-	334,531
	Department: 20 - Administrat	tive Services						
	Program: 4001 - Tourism							
	5213.100	Professional/Contract Services General	17,363	-	-	(11,851)	-	-
		Program Total: 4001 - Tourism	17,363	-	-	(11,851)	-	-
	Program: 4200 - Town Mar							
	5101	Salaries - Permanent	175,918	184,673	184,673	99,862	-	184,673
	5106.100	Incentives & Admin Leave Administrative Leave	9,042	9,403	9,403	-	-	9,403
	5107	Car Allowance/Mileage	2,029	2,040	2,040	802	-	2,040
	5111	Medicare	2,663	2,406	2,406	1,424	-	2,406
	5112.101	GASB 68 - Pension Expense PERS	32,304	33,867	33,867	25,885	-	33,867
	5113	Worker's Compensation	1,211	960	960	477	-	960
	5114.101	Health Insurance Medical	13,519	18,320	18,320	9,182	-	18,320
	5114.102	Health Insurance Dental	1,848	-	-	1,087	-	-
	5114.103	Health Insurance Vision	153	-	-	89	-	-
	5115	Unemployment Compensation	-	-	-	668	-	-
	5116.101	Life and Disability Insurance Life & Disab.	459	1,305	1,305	266	-	1,305
	5116.102	Life and Disability Insurance Long Term/Short Term Disability	1,813	-	-	1,085	-	-
	5119.100	Retiree Costs Medical Insurance	33,946	36,318	36,318	15,726	-	36,318
	5201.100	Office Supplies General	14	500	500	57	-	500
	5202.100	Operating Supplies General	990	1,000	1,000	151	-	1,000
	5203.100	Repairs and Maint Supplies General	-	-	-	21	-	-
	5210.100	Postage General	71	80	80	23	-	80
	5213.100	Professional/Contract Services General	5,600	65,500	65,500	35,605	-	65,500
	5216.100	Communications General Services	760	607	607	286	-	607
	5218.100	Advertising General	25	-	-	-	-	-
	5219.100	Printing General	102	200	200	38	-	200
	5220.100	Employee Development General	7,774	5,000	5,000	2,706	-	5,000
	5223.105	Meals and Refreshments Emergencies and Meetings	1,132	1,000	2,000	1,057	-	2,000
	5224	Travel Expenses - Lodging, Airfare, Incidentals	-	2,500	5,500	-	-	5,500

Account Number	Account Description	FY 2021-22 Unaudited Actual Amount	FY 2022-23 Adopted Budget	FY 2022-23 Amended Budget	FY 2022-23 Actuals to Date	FY 2022-23 Proposed Amendments	FY 2022-23 Proposed Amended Budget
5260	Miscellaneous	(2,565)	-	-	-	-	-
5304	Furniture & Equipment	4,441	4,500	500	-	-	500
	Program Total: 4200 - Town Manager	293,250	370,179	370,179	196,498	-	370,179
Program: 4201 - Central	Services						
5101	Salaries - Permanent	126,982	144,186	144,186	75,465	-	144,186
5106.100	Incentives & Admin Leave Administrative Leave	-	3,421	3,421	-	-	3,421
5111	Medicare	1,989	2,140	2,140	1,191	-	2,140
5112.101	GASB 68 - Pension Expense PERS	24,324	26,489	26,489	21,361	-	26,489
5113	Worker's Compensation	881	750	750	373	-	750
5114.101	Health Insurance Medical	10,410	13,612	13,612	6,777	-	13,612
5114.102	Health Insurance Dental	1,279	-	-	955	-	-
5114.103	Health Insurance Vision	87	-	-	55	-	-
5115	Unemployment Compensation	-	-	-	556	-	-
5116.101	Life and Disability Insurance Life & Disab.	509	1,905	1,905	292	-	1,905
5116.102	Life and Disability Insurance Long Term/Short Term Disability	1,275	-	-	816	-	-
5201.100	Office Supplies General	1,011	1,000	1,000	169	-	1,000
5202.100	Operating Supplies General	3,775	3,145	3,145	1,602	-	3,145
5203.100	Repairs and Maint Supplies General	5,048	3,500	3,500	2,332	-	3,500
5209.101	Auto Fuel Expense Town Vehicles	1,131	2,000	2,000	-	-	2,000
5210.100	Postage General	-	50	50	-	-	50
5211.135	Utilities Water and Sewer	1,445	1,401	1,401	700	-	1,401
5211.137	Utilities Electric and Gas	30,132	31,000	31,000	18,772	-	31,000
5212.100	Insurance General	264,212	289,850	299,850	298,379	-	299,850
5213.100	Professional/Contract Services General	47,114	66,525	66,525	37,524	-	66,525
5214.100	Repair and Maint Service General	27,177	26,800	26,800	11,201	-	26,800
5215.100	Rents and Leases Miscellaneous	1,578	1,620	1,620	929	-	1,620
5218.100	Advertising General	-	100	100	-	-	100
5219.100	Printing General	245	750	750	541	-	750
5220.100	Employee Development General	918	-	-	-	-	-
5223.105	Meals and Refreshments Emergencies and Meetings	72	-	-	-	-	-
5225	Bank Fees and Charges	0	-	-	-	-	-
5260	Miscellaneous	38,392	40,644	43,344	43,344	-	43,344
5304	Furniture & Equipment	1,162	-	-	-	-	-
5500	Bond Payments - Fiscal Agent	1,496	4,250	4,250			4,250
	Program Total: 4201 - Central Services	592,645	665,138	677,838	523,331	-	677,838
Program: 4202 - Inform	ation Technology						
5101	Salaries - Permanent	47,824	131,698	131,698	69,642	-	131,698

Account Number	Account Description	FY 2021-22 Unaudited Actual Amount	FY 2022-23 Adopted Budget	FY 2022-23 Amended Budget	FY 2022-23 Actuals to Date	FY 2022-23 Proposed Amendments	FY 2022-23 Proposed Amended Budget
5106.100	Incentives & Admin Leave Administrative Leave	2,693	7,598	7,598	-	-	7,598
5107	Car Allowance/Mileage	907	2,400	2,400	1,400	-	2,400
5111	Medicare	691	2,055	2,055	959	-	2,055
5112.101	GASB 68 - Pension Expense PERS	4,137	25,781	25,781	20,425	-	25,781
5113	Worker's Compensation	-	685	685	341	-	685
5114.101	Health Insurance Medical	5,639	17,994	17,994	8,809	-	17,994
5114.102	Health Insurance Dental	901	-	-	1,279	-	-
5114.103	Health Insurance Vision	75	-	-	105	-	-
5115	Unemployment Compensation	-	-	-	454	-	-
5116.101	Life and Disability Insurance Life & Disab.	128	1,336	1,336	225	-	1,336
5116.102	Life and Disability Insurance Long Term/Short Term Disability	239	-	-	467	-	-
5199.199	Other Fund Support IT-Serv from Tech Fee	(476,466)	(463,123)	(463,123)	(283,587)	(50,000)	(513,123)
5202.100	Operating Supplies General	628	3,250	3,250	806	-	3,250
5209.101	Auto Fuel Expense Town Vehicles	881	-	-	-	-	-
5213.100	Professional/Contract Services General	270,218	59,890	59,890	68,521	50,000	109,890
5214.100	Repair and Maint Service General	70,236	131,482	131,482	72,558	-	131,482
5215.106	Rents and Leases Copiers	2,203	2,184	2,184	1,274	-	2,184
5216.100	Communications General Services	41,992	49,320	49,320	24,181	-	49,320
5218.100	Advertising General	1,371	-	-	-	-	-
5219.100	Printing General	27	-	-	-	-	-
5220.100	Employee Development General	-	5,000	5,000	2,437	-	5,000
5223.105	Meals and Refreshments Emergencies and Meetings	54	-	-	-	-	-
5225	Bank Fees and Charges	1,798	1,450	1,450	678	-	1,450
5304	Furniture & Equipment	23,825	21,000	21,000	9,028		21,000
F	Program Total: 4202 - Information Technology	-	-	-	-	-	-
Program: 4203 - HR and R	Risk Management						
5101	Salaries - Permanent	143,522	149,530	149,530	83,474	-	149,530
5106.100	Incentives & Admin Leave Administrative Leave	1,890	7,828	7,828	-	-	7,828
5107	Car Allowance/Mileage	2,316	2,400	2,400	1,400	-	2,400
5111	Medicare	2,077	2,430	2,430	1,186	-	2,430
5112.101	GASB 68 - Pension Expense PERS	32,064	33,542	33,542	25,858	-	33,542
5113	Worker's Compensation	996	818	818	407	-	818
5114.101	Health Insurance Medical	16,135	21,019	21,019	10,378	-	21,019
5114.102	Health Insurance Dental	2,105	-	-	1,279	-	-
5114.103	Health Insurance Vision	180	-	-	103	-	-
5115	Unemployment Compensation	-	-	-	558	-	-
5116.101	Life and Disability Insurance Life & Disab.	505	1,473	1,473	296	-	1,473

 Account Number	Account Description	FY 2021-22 Unaudited Actual Amount	FY 2022-23 Adopted Budget	FY 2022-23 Amended Budget	FY 2022-23 Actuals to Date	FY 2022-23 Proposed Amendments	FY 2022-23 Proposed Amended Budget
5116.102	Life and Disability Insurance Long Term/Short Term Disability	910	-	-	597	-	-
5119.120	Retiree Costs PERS 1959 Survivor Benefits	4,061	3,750	3,750	-	-	3,750
5201.100	Office Supplies General	358	500	500	57	-	500
5202.100	Operating Supplies General	471	700	700	223	-	700
5210.100	Postage General	3	25	25	22	-	25
5213.100	Professional/Contract Services General	1,481	2,218	2,218	2,285	-	2,218

Account Number	Account Description	FY 2021-22 Unaudited Actual Amount	FY 2022-23 Adopted Budget	FY 2022-23 Amended Budget	FY 2022-23 Actuals to Date	FY 2022-23 Proposed Amendments	FY 2022-23 Proposed Amended Budget
5214.100	Repair and Maint Service General	373	500	500		-	500
5216.100	Communications General Services	31	-	-	-	_	-
5219.100	Printing General	75	-	_	0	_	_
5220.100	Employee Development General	246	-	_	-	_	_
	Program Total: 4203 - HR and Risk Management	209,800	226,733	226,733	128,123	-	226,733
Program: 4300 - Le	gal Services	,	,	,	,		,
5210.100	Postage General	-	10	10	-	_	10
5213.100	Professional/Contract Services General	247,743	203,100	203,100	10,593	-	203,100
	Program Total: 4300 - Legal Services	247,743	203,110	203,110	10,593	-	203,110
	Department Total: 20 - Administrative Services	1,360,801	1,465,160	1,477,860	846,695	-	1,477,860
Department: 25 - Fina Program: 4400 - Fin							
5101	Salaries - Permanent	156,006	171,452	171,452	91,618	7,200	178,652
5106.100	Incentives & Admin Leave Administrative Leave	8,392	8,924	8,924	-	-	8,924
5107	Car Allowance/Mileage	1,992	1,992	1,992	1,162	-	1,992
5111	Medicare	2,358	2,644	2,644	1,309	-	2,644
5112.101	GASB 68 - Pension Expense PERS	30,134	31,539	31,539	25,569	-	31,539
5113	Worker's Compensation	1,084	892	892	443	-	892
5114.101	Health Insurance Medical	7,728	10,073	10,073	5,082	-	10,073
5114.102	Health Insurance Dental	914	-	-	556	-	-
5114.103	Health Insurance Vision	91	-	-	54	-	-
5115	Unemployment Compensation	-	-	-	617	-	-
5116.101	Life and Disability Insurance Life & Disab.	486	1,594	1,594	287	-	1,594
5116.102	Life and Disability Insurance Long Term/Short Term Disability	927	-	-	571	-	-
5119.100	Retiree Costs Medical Insurance	33,083	34,000	34,000	17,477	-	34,000
5201.100	Office Supplies General	267	500	500	89	-	500
5202.100	Operating Supplies General	-	230	230	96	-	230
5210.100	Postage General	1,477	1,300	1,300	936	-	1,300
5213.100	Professional/Contract Services General	20,872	36,480	36,480	866	-	36,480
5218.100	Advertising General	-	100	100	-	-	100
5219.100	Printing General	1,272	1,000	1,000	-	-	1,000
5220.100	Employee Development General	2,532	4,750	4,750	225	-	4,750
5220.110	Employee Development Education Reimb MOU Program	400	-	-	600	-	-
5304	Furniture & Equipment	4,158	1,500	3,650	2,112		3,650
	Program Total: 4400 - Finance	274,173	308,970	311,120	149,669	7,200	318,320

Program: 4420 - Measure C/V TUT

Cost Center Activity: 300 - Police Administration

Account Number	Account Description	FY 2021-22 Unaudited Actual Amount	FY 2022-23 Adopted Budget	FY 2022-23 Amended Budget	FY 2022-23 Actuals to Date	FY 2022-23 Proposed Amendments	FY 2022-23 Proposed Amended Budget
5910.010	Transfers Out To General Fund	3,069	-	-	-	-	-
Cos	st Center Activity Total: 300 - Police Administration	3,069	-	-	-	-	-
Cost Center Activity:	301 - Police Operations						
5102	Salaries - Temporary	24,124	40,000	40,000	-	-	40,000
5105	Salaries - Overtime/FLSA	5,733	-	-	-	-	-
5111	Medicare	432	-	-	-	-	-
5112.101	GASB 68 - Pension Expense PERS	76	-	-	-	-	-
5112.102	GASB 68 - Pension Expense Social Security	1,785	-	-	-	-	-
5113	Worker's Compensation	1,328	-	-	-	-	-
5114.101	Health Insurance Medical	220	-	-	-	-	-
5114.102	Health Insurance Dental	23	-	-	-	-	-
5114.103	Health Insurance Vision	2	-	-	-	-	-
5115	Unemployment Compensation	-	-	-	-	-	-
5116.101	Life and Disability Insurance Life & Disab.	9	-	-	-	-	-
5202.100	Operating Supplies General	6,846	5,500	5,500	6,903	-	5,500
5213.100	Professional/Contract Services General	1,846	18,000	18,000	2,704	2,00	20,000
5220.100	Employee Development General	29,513	40,000	40,000	13,303	-	40,000
5303	Improvements	6,404	-	-	2,660	-	-
5304	Furniture & Equipment	249,872	-	-	-	-	-
5305	Vehicles	-	235,000	235,000	408,558	36,00	271,000
5501	Debt Service Payment - Principal	15,194	-	-	(1,911)	-	-
	Cost Center Activity Total: 301 - Police Operations	343,407	338,500	338,500	432,217	38,00	376,500
Cost Center Activity:	302 - Police Dispatch						
5910.105	Transfers Out To Camp Fire Recovery Projects	7,920	-	-	-	-	-
	Cost Center Activity Total: 302 - Police Dispatch	7,920	-	-	-	-	-
Cost Center Activity:	303 - Animal Control						
5910.070	Transfers Out To Animal Control Fund	288,954	360,494	360,494	151,314	7,00	367,494
	Cost Center Activity Total: 303 - Animal Control	288,954	360,494	360,494	151,314	7,00	367,494

Account Number	Account Description	FY 2021-22 Unaudited Actual Amount	FY 2022-23 Adopted Budget	FY 2022-23 Amended Budget	FY 2022-23 Actuals to Date	FY 2022-23 Proposed Amendments	FY 2022-23 Proposed Amended Budget
Cost Center Activity:	325 - Fire Administration						
5303	Improvements	-	-	50,000	77	-	50,000
	Cost Center Activity Total: 325 - Fire Administration	-	-	50,000	77	-	50,000
Cost Center Activity:	326 - Fire Suppression						
5213.100	Professional/Contract Services General	250,000	250,000	250,000	-	-	250,000
5304	Furniture & Equipment	43,254	70,000	20,000	586	30,00	0 50,000
5305	Vehicles	-	350,000	350,000	219,921	-	350,000
	Cost Center Activity Total: 326 - Fire Suppression	293,254	670,000	620,000	220,506	30,00	0 650,000
Cost Center Activity:	350 - Public Works Streets						
5305	Vehicles	-	142,000	142,000	-	-	142,000
5910.100	Transfers Out To Capital Projects	-	-	144,000	-	(75,00	0) 69,000
5910.120	Transfers Out To State Gas Tax Fund	235,177	-	-	-	-	-
Co	st Center Activity Total: 350 - Public Works Streets	235,177	142,000	286,000	-	(75,00	0) 211,000
	Program Total: 4420 - Measure C/V TUT	1,171,782	1,510,994	1,654,994	804,114	-	1,654,994
Program: 5005 - Ren	tal Properties						
5203.100	Repairs and Maint Supplies General	22	-	-	7	-	-
5211.175	Utilities Rental Properties	792	792	792	132	-	792
	Program Total: 5005 - Rental Properties	814	792	792	138	-	792
	Department Total: 25 - Finance	1,446,769	1,820,756	1,966,906	953,922	7,20	0 1,974,106
Department: 30 - Police	2						
Program: 4510 - Poli	ce Administration						
5101	Salaries - Permanent	407,610	484,467	484,467	252,981	-	484,467
5103.102	Differential Pay Out of Class	106	-	-	213	-	-
5104	Wages - PS Holiday Pay	18,612	24,383	24,383	13,147	-	24,383
5105	Salaries - Overtime/FLSA	311	500	500	186	-	500
5106.100	Incentives & Admin Leave Administrative Leave	20,571	25,940	25,940	14,085	-	25,940
5106.101	Incentives & Admin Leave School Incentive	21,342	26,363	26,363	14,666	-	26,363
5109.100	Allowances Uniform Allowance	2,403	1,860	1,860	1,628	-	1,860
5111	Medicare	6,617	8,164	8,164	4,137	-	8,164
5112.101	GASB 68 - Pension Expense PERS	368,868	385,047	385,047	331,258	-	385,047
5113	Worker's Compensation	30,993	28,070	28,070	13,955	-	28,070
5114.101	Health Insurance Medical	39,465	44,377	44,377	29,543	-	44,377
5114.102	Health Insurance Dental	7,610	-	-	5,162	-	-
5114.103	Health Insurance Vision	637	-	-	417	-	-
5115	Unemployment Compensation	-	-	-	1,937	-	-
5116.101	Life and Disability Insurance Life & Disab.	1,025	3,512	3,512	658	-	3,512
5116.102	Life and Disability Insurance Long Term/Short Term Disability	2,609	-	-	1,970	-	-

Account Number Account Description Amount Adopted Budget Amended Budget Actuals to Date	Amendments	Proposed Amended Budget
5119.100 Retiree Costs Medical Insurance 69,411 59,892 59,892 36,837	-	59,892
5201.100 Office Supplies General 594 2,000 2,000 1,281	-	2,000
5202.100 Operating Supplies General 5,415 5,650 5,650 2,679	-	5,650
5203.100 Repairs and Maint Supplies General 2,157 2,150 2,150 727	-	2,150
5210.100 Postage General 1,608 1,500 1,500 1,000	-	1,500
5211.135 Utilities Water and Sewer 1,137 1,137 1,137 399	-	1,137
5211.137 Utilities Electric and Gas 27,533 25,000 25,000 17,791	-	25,000
5211.139 Utilities Propane 1,971 1,750 1,750 483	-	1,750
5213.100 Professional/Contract Services General 7,646 13,590 13,590 2,690	-	13,590
5214.100 Repair and Maint Service General 39,224 34,139 34,139 17,549	-	34,139
5215.100 Rents and Leases Miscellaneous 676 565 565 270	-	565
5215.106 Rents and Leases Copiers 1,447 1,344 1,344 779	-	1,344
5216.100 Communications General Services 14,405 12,240 12,240 8,283	2,200	14,440
5218.100 Advertising General 1,259	-	-
5219.100 Printing General 1,305 500 500 38	-	500
5220.100 Employee Development General 7,072 8,500 8,500 1,659	-	8,500
5223.105 Meals and Refreshments Emergencies and Meetings 550 500 500 261	-	500
5225 Bank Fees and Charges 1,470 1,000 1,000 593	-	1,000
5303 Improvements - 14,000 14,000 15,186	1,200	15,200
5304 Furniture & Equipment 15,690 2,500 -	-	2,500
Program Total: 4510 - Police Administration 1,129,349 1,220,640 1,220,640 794,446	3,400	1,224,040
Program: 4520 - Police Operations		
5101 Salaries - Permanent 1,231,392 1,502,582 1,502,582 719,219	-	1,502,582
5103.102 Differential Pay Out of Class 5,529 6,701	-	-
5103.105 Differential Pay Swing/Graveyard Shift 37,315 22,697	-	-
5103.108 Differential Pay Canine Maintenance 15,708 8,124	-	-
5104 Wages - PS Holiday Pay 65,550 79,805 79,805 43,202	-	79,805
5105 Salaries - Overtime/FLSA 294,473 235,000 235,000 157,409	-	235,000
5106.100 Incentives & Admin Leave Administrative Leave 34,726	-	-
5106.101 Incentives & Admin Leave School Incentive 73,855 59,347 59,347 32,627	-	59,347
5106.103 Incentives & Admin Leave Team Pay 10,085 5,077	-	-
5106.200 Incentives & Admin Leave Gym Reimbursement - 360 360 -	-	360
5106.205 Incentives & Admin Leave PS Recruitment Incentive - 5,000 5,000 -	-	5,000
5109.100 Allowances Uniform Allowance 15,102 15,562 15,562 10,616	-	15,562
5111 Medicare 23,170 28,023 28,023 13,583	-	28,023
5112.101 GASB 68 - Pension Expense PERS 1,248,327 1,347,719 1,347,719 1,200,194	-	1,347,719
5113 Worker's Compensation 114,038 105,564 105,564 52,482	-	105,564

Account Number	Account Description	FY 2021-22 Unaudited Actual Amount	FY 2022-23 Adopted Budget	FY 2022-23 Amended Budget	FY 2022-23 Actuals to Date	FY 2022-23 Proposed Amendments	FY 2022-23 Proposed Amended Budget
5114.101	Health Insurance Medical	198,063	252,993	252,993	115,720	-	252,993
5114.102	Health Insurance Dental	24,909	-	-	15,787	-	-
5114.103	Health Insurance Vision	2,177	-	-	1,317	-	-
5115	Unemployment Compensation	4,937	-	-	6,272	-	-
5116.101	Life and Disability Insurance Life & Disab.	3,859	16,711	16,711	2,305	-	16,711
5116.102	Life and Disability Insurance Long Term/Short Term Disability	10,353	-	-	6,458	-	-
5119.100	Retiree Costs Medical Insurance	143,591	154,019	154,019	73,257	-	154,019
5122	Accrual Bank Payoff	3,288	-	-	422	-	-
5199.130	Other Payroll Expenses Interfund Payroll Transfers	(86,985)	(93,478)	(93,478)	-	-	(93,478)
5202.100	Operating Supplies General	21,202	44,333	44,333	26,997	-	44,333
5204	Subscriptions and Code Books	1,235	500	500	-	-	500
5209.101	Auto Fuel Expense Town Vehicles	80,917	70,000	70,000	34,715	-	70,000
5213.100	Professional/Contract Services General	7,389	10,200	10,200	5,549	-	10,200
5214.100	Repair and Maint Service General	810	1,500	1,500	-	-	1,500
5216.100	Communications General Services	33,728	98,281	98,281	2,054	-	98,281
5218.100	Advertising General	235	200	200	-	-	200
5220.110	Employee Development Education Reimb MOU Program	-	200	200	-	-	200
5223.105	Meals and Refreshments Emergencies and Meetings	26	-	-	-	-	-
5224	Travel Expenses - Lodging, Airfare, Incidentals	146	-	-	-	-	-
5304	Furniture & Equipment	8,750	65,500	3,000	479	-	3,000
5305	Vehicles	-	-	75,000	-	-	75,000
5501	Debt Service Payment - Principal	10,861	10,861	10,861	10,861	-	10,861
	Program Total: 4520 - Police Operations	3,604,034	4,010,782	4,023,282	2,608,851	-	4,023,282
Program: 4530 - Public	c Safety Communications						
5101	Salaries - Permanent	129,489	244,835	234,335	74,903	-	234,335
5104	Wages - PS Holiday Pay	3,744	10,718	10,718	4,293	-	10,718
5105	Salaries - Overtime/FLSA	1,783	1,000	1,000	1,458	-	1,000
5106.100	Incentives & Admin Leave Administrative Leave	-	-	-	2,084	-	-
5106.101	Incentives & Admin Leave School Incentive	3,284	13,767	13,767	2,860	-	13,767
5106.200	Incentives & Admin Leave Gym Reimbursement	360	90	90	330	-	90
5109.100	Allowances Uniform Allowance	1,364	3,228	3,228	796	-	3,228
5109.101	Allowances Boot Allowance	500	-	-	500	-	-
5111	Medicare	1,705	3,968	3,968	1,047	-	3,968
5112.101	GASB 68 - Pension Expense PERS	28,250	51,845	51,845	36,619	-	51,845
5113	Worker's Compensation	3,085	4,888	4,888	2,430	-	4,888
5114.101	Health Insurance Medical	28,851	63,624	63,624	18,351	-	63,624

	Account Number	Account Description	FY 2021-22 Unaudited Actual Amount	FY 2022-23 Adopted Budget	FY 2022-23 Amended Budget	FY 2022-23 Actuals to Date	FY 2022-23 Proposed Amendments	FY 2022-23 Proposed Amended Budget
	5114.102	Health Insurance Dental	4,280	-	-	2,558	-	-
	5114.103	Health Insurance Vision	306	-	-	181	-	-
	5115	Unemployment Compensation	-	-	-	493	-	-
	5116.101	Life and Disability Insurance Life & Disab.	506	3,520	3,520	300	-	3,520
	5116.102	Life and Disability Insurance Long Term/Short Term Disability	1,312	-	-	795	-	-
	5119.100	Retiree Costs Medical Insurance	70,577	74,720	74,720	31,253	-	74,720
	5122	Accrual Bank Payoff	-	-	=	778	-	-
	5199.130	Other Payroll Expenses Interfund Payroll Transfers	(61,358)	(66,785)	(66,785)	-	-	(66,785)
	5202.100	Operating Supplies General	656	2,200	2,200	157	-	2,200
	5204	Subscriptions and Code Books	160	190	190	-	-	190
	5213.100	Professional/Contract Services General	374,595	352,008	352,008	95,766	-	352,008
	5214.100	Repair and Maint Service General	22,310	96,310	96,310	-	-	96,310
	5216.100	Communications General Services	39,133	13,200	13,200	7,632	-	13,200
	5218.100	Advertising General	-	100	10,600	5,403	-	10,600
	5220.100	Employee Development General	3,117	8,450	8,450	7,595	-	8,450
	5304	Furniture & Equipment	-	5,000	5,000	1,335	-	5,000
	-	1 Total: 4530 - Public Safety Communications	658,009	886,876	886,876	299,917	-	886,876
Prog	gram: 4550 - Fleet Mana							
	5101	Salaries - Permanent	99,793	130,238	130,238	72,664	-	130,238
	5109.100	Allowances Uniform Allowance	779	1,000	1,000	583	-	1,000
	5109.101	Allowances Boot Allowance	1,000	1,000	1,000	1,000	-	1,000
	5109.102	Allowances Tool Allowance	2,000	2,000	2,000	3,500	-	2,000
	5111	Medicare	1,437	1,946	1,946	1,080	-	1,946
	5112.101	GASB 68 - Pension Expense PERS	22,807	24,798	24,798	19,853	-	24,798
	5113	Worker's Compensation	4,817	3,243	3,243	1,612	-	3,243
	5114.101	Health Insurance Medical	9,626	14,277	14,277	6,777	-	14,277
	5114.102	Health Insurance Dental	1,811	-	-	1,218	-	-
	5114.103	Health Insurance Vision	99	-	-	71	-	-
	5115	Unemployment Compensation	-	-	-	507	-	-
	5116.101	Life and Disability Insurance Life & Disab. Life and Disability Insurance Long Term/Short Term	417	1,845	1,845	300	-	1,845
	5116.102	Disability	987	-	-	753	-	-
	5119.100	Retiree Costs Medical Insurance	7,259	7,213	7,213	3,558	-	7,213
	5202.100	Operating Supplies General	12,328	4,500	4,500	5,206	4,000	8,500
	5203.100	Repairs and Maint Supplies General	101,476	65,000	65,000	62,736	55,000	120,000
	5203.300	Repairs and Maint Supplies Accident and Negligence	11,326	5,000	5,000	1,031	-	5,000
	5209.101	Auto Fuel Expense Town Vehicles	1,752	1,000	1,000	1,204	1,000	2,000

Account Number	Account Description	FY 2021-22 Unaudited Actual Amount	FY 2022-23 Adopted Budget	FY 2022-23 Amended Budget	FY 2022-23 Actuals to Date	FY 2022-23 Proposed Amendments	FY 2022-23 Proposed Amended Budget
5210.100	Postage General	-	50	50	26	-	50
5213.100	Professional/Contract Services General	4,082	2,316	2,316	957	-	2,316
5214.100	Repair and Maint Service General	33,130	22,000	22,000	18,280	10,000	32,000
5214.300	Repair and Maint Service Accident and Negligence	5,292	3,500	3,500	903	· .	3,500
	,	900	900	900	525		900
5216.100 5218.100	Communications General Services Advertising General	259	900	900	525	-	900
5220.100	Employee Development General	5,854	10,000	10,000	1,781	-	10,000
5220.100	Travel Expenses - Lodging, Airfare, Incidentals	3,634	-	10,000	1,761	-	10,000
5304	Furniture & Equipment	5,908	21,800	21,800	4,434	(12,000)	9,800
3304	Program Total: 4550 - Fleet Management	335,182	323,626	323,626	210,559	58,000	381,626
	Department Total: 30 - Police	5,726,574	6,441,924	6,454,424	3,913,773	61,400	6,515,824
Department: 35 - Fire	2-5	3,720,371	0,111,521	0, 13 1, 12 1	3/313///3	01,100	0,313,021
	Administrative						
5101	Salaries - Permanent	95,828	122,922	122,922	64,714	<u>-</u>	122,922
5105	Salaries - Overtime/FLSA	34	,	,		<u>-</u>	,
5106.200	Incentives & Admin Leave Gym Reimbursement	-	60	60	<u>-</u>	<u>-</u>	60
5109.100	Allowances Uniform Allowance	566	636	636	450	-	636
5109.101	Allowances Boot Allowance	565	700	700	565	-	700
5111	Medicare	1,522	1,802	1,802	1,043	-	1,802
5112.101	GASB 68 - Pension Expense PERS	18,158	22,496	22,496	18,048	-	22,496
5113	Worker's Compensation	2,436	2,299	2,299	1,143	-	2,299
5114.101	Health Insurance Medical	7,617	10,466	10,466	5,862	-	10,466
5115	Unemployment Compensation	-	-	-	488	-	-
5116.101	Life and Disability Insurance Life & Disab.	372	1,630	1,630	257	-	1,630
5116.102	Life and Disability Insurance Long Term/Short Term Disability	927	-	-	693	-	-
5119.100	Retiree Costs Medical Insurance	55,180	53,231	53,231	28,770	-	53,231
5201.100	Office Supplies General	212	400	400	110	-	400
5202.100	Operating Supplies General	1,574	3,450	3,450	1,193	-	3,450
5203.100	Repairs and Maint Supplies General	7,725	8,050	8,050	6,905	-	8,050
5209.101	Auto Fuel Expense Town Vehicles	-	500	500	-	-	500
5210.100	Postage General	255	300	300	353	-	300
5211.135	Utilities Water and Sewer	2,589	2,300	2,300	1,128	-	2,300
5211.137	Utilities Electric and Gas	30,466	27,000	27,000	19,001	-	27,000
5211.139	Utilities Propane	698	750	750	381	-	750
5213.100	Professional/Contract Services General	5,072	1,476	1,476	1,253	550	2,026
5214.100	Repair and Maint Service General	7,442	7,320	7,320	4,456	-	7,320
5215.106	Rents and Leases Copiers	802	780	780	429	-	780

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Account Number	Account Description	Unaudited Actual Amount	FY 2022-23 Adopted Budget	FY 2022-23 Amended Budget	FY 2022-23 Actuals to Date	Proposed Amendments	Proposed Amended Budget
5216.100	Communications General Services	14,192	16,270	16,270	7,029	-	16,270
5219.100	Printing General	-	11,000	11,000	-	-	11,000
5225	Bank Fees and Charges	-	-	-	-	-	-
5303	Improvements	-	35,100	35,100	32,629	-	35,100
5304	Furniture & Equipment	-	-	-	-	-	-
	Program Total: 4610 - Fire - Administrative	254,229	330,938	330,938	196,899	550	331,488
Program: 4615 - Fire - E	ос						
5202.100	Operating Supplies General	18	400	400	1,313	1,100	1,500
5203.100	Repairs and Maint Supplies General	-	-	-	75	-	-
5213.100	Professional/Contract Services General	96	-	-	-	-	-
5214.100	Repair and Maint Service General	3,502	4,760	4,760	563	-	4,760
5216.100	Communications General Services	6,885	5,862	5,862	4,104	-	5,862
5223.105	Meals and Refreshments Emergencies and Meetings	-	500	500	-	-	500
5304	Furniture & Equipment	-	6,500	6,500	-	-	6,500
	Program Total: 4615 - Fire - EOC	10,500	18,022	18,022	6,055	1,100	19,122
Program: 4620 - Fire - P	revention						
5213.100	Professional/Contract Services General	13,175	-	-	1	-	-
	Program Total: 4620 - Fire - Prevention	13,175	-	-	1	-	-
Program: 4630 - Fire - S	uppression						
5112.101	GASB 68 - Pension Expense PERS	112,411	224,287	224,287	224,287	-	224,287
5119.100	Retiree Costs Medical Insurance	165,243	164,362	164,362	83,608	-	164,362
5202.100	Operating Supplies General	8,712	12,750	12,750	5,853	-	12,750
5203.100	Repairs and Maint Supplies General	1,984	4,450	4,450	2,731	-	4,450
5209.101	Auto Fuel Expense Town Vehicles	28,822	19,000	19,000	12,493	-	19,000
5213.100	Professional/Contract Services General	3,813,964	4,320,404	4,320,404	-	-	4,320,404
5214.100	Repair and Maint Service General	3,603	9,750	9,750	4,574	-	9,750
5220.100	Employee Development General	(50)	500	500	172	-	500
5223.105	Meals and Refreshments Emergencies and Meetings	14	200	200	-	-	200
5269.135	Emergency Incident Costs Fire Related	-	250	250	-	-	250
5303	Improvements	-	-	-	-	-	-
5304	Furniture & Equipment	23,158	22,420	22,420	2,564	-	22,420
5305	Vehicles	4,952	659,000	659,000	572,374	-	659,000
5501	Debt Service Payment - Principal	68,738	68,738	68,738	68,738	-	68,738
	Program Total: 4630 - Fire - Suppression	4,231,550	5,506,111	5,506,111	977,394	-	5,506,111
Program: 4640 - Fire - V	olunteer Program						
5118	Volunteer Benefits	587	1,632	1,632	384	-	1,632
5202.100	Operating Supplies General	-	200	200	-	-	200

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Account Number	Account Description	Unaudited Actual Amount	FY 2022-23 Adopted Budget	FY 2022-23 Amended Budget	FY 2022-23 Actuals to Date	Proposed Amendments	Proposed Amended Budget
5213.100	Professional/Contract Services General	583	400	400	-	-	400
	Program Total: 4640 - Fire - Volunteer Program	1,170	2,232	2,232	384	-	2,232
	Department Total: 35 - Fire	4,510,624	5,857,303	5,857,303	1,180,733	1,650	5,858,953
Department: 40 - Comr	nunity Development						
Program: 4720 - CDE	Planning						
5101	Salaries - Permanent	262,507	376,161	376,161	154,713	-	376,161
5105	Salaries - Overtime/FLSA	387	5,000	5,000	-	-	5,000
5106.100	Incentives & Admin Leave Administrative Leave	2,962	6,076	6,076	-	-	6,076
5106.200	Incentives & Admin Leave Gym Reimbursement	216	432	432	348	-	432
5107	Car Allowance/Mileage	360	360	360	210	-	360
5109.101	Allowances Boot Allowance	450	1,100	1,100	1,000	-	1,100
5111	Medicare	3,711	5,394	5,394	2,224	-	5,394
5112.101	GASB 68 - Pension Expense PERS	59,196	71,471	71,471	53,538	-	71,471
5113	Worker's Compensation	6,546	4,726	4,726	2,350	-	4,726
5114.101	Health Insurance Medical	33,974	61,595	61,595	20,506	-	61,595
5114.102	Health Insurance Dental	5,194	-	-	2,716	-	-
5114.103	Health Insurance Vision	455	-	-	235	-	-
5115	Unemployment Compensation	-	-	-	1,036	-	-
5116.101	Life and Disability Insurance Life & Disab.	1,094	4,779	4,779	688	-	4,779
5116.102	Life and Disability Insurance Long Term/Short Term Disability	2,034	-	-	1,269	-	-
5119.100	Retiree Costs Medical Insurance	15,042	15,311	15,311	8,135	-	15,311
5122	Accrual Bank Payoff	145	-	-	-	-	-
5201.100	Office Supplies General	90	200	200	60	-	200
5202.100	Operating Supplies General	165	500	500	53	-	500
5209.101	Auto Fuel Expense Town Vehicles	4,081	4,000	4,000	1,538	-	4,000
5210.100	Postage General	232	500	500	138	-	500
5213.100	Professional/Contract Services General	167,510	800,000	800,000	40,701	-	800,000
5214.100	Repair and Maint Service General	5,073	5,500	5,500	5,327	-	5,500
5216.100	Communications General Services	901	8,032	8,032	-	-	8,032
5218.100	Advertising General	3,152	2,000	2,000	784	-	2,000
5219.100	Printing General	54	55	55	86	-	55
5220.100	Employee Development General	665	5,000	5,000	3,079	-	5,000
5305	Vehicles	-	84,000	84,000	32,637	-	84,000
	Program Total: 4720 - CDD Planning	576,197	1,462,192	1,462,192	333,372	-	1,462,192
Program: 4780 - CDE) - Waste Management						
5101	Salaries - Permanent	5,905	-	-	117	-	-
5106.100	Incentives & Admin Leave Administrative Leave	243	-	-	-	-	-

Account	t Number	Account Description	FY 2021-22 Unaudited Actual Amount	FY 2022-23 Adopted Budget	FY 2022-23 Amended Budget	FY 2022-23 Actuals to Date	FY 2022-23 Proposed Amendments	FY 2022-23 Proposed Amended Budget
5107		Car Allowance/Mileage	72	-	-	-	-	-
5111		Medicare	95	-	-	2	-	_
5112.10	01	GASB 68 - Pension Expense PERS	1,280	-	-	8	-	-
5113		Worker's Compensation	41	-	-	-	-	-
5114.10	01	Health Insurance Medical	349	-	-	15	-	-
5114.10	02	Health Insurance Dental	89	-	-	1	-	_
5114.10	03	Health Insurance Vision	9	-	-	0	-	-
5115		Unemployment Compensation	-	-	-	1	-	-
5116.10	01	Life and Disability Insurance Life & Disab.	22	-	-	1	-	-
5116.10	02	Life and Disability Insurance Long Term/Short Term Disability	71	-	-	1	-	-
5213.10	00	Professional/Contract Services General	-	7,521	7,521	-	-	7,521
	Prograi	m Total: 4780 - CDD - Waste Management	8,177	7,521	7,521	147	-	7,521
	Depart	ment Total: 40 - Community Development	584,374	1,469,713	1,469,713	333,519	-	1,469,713
Department:	45 - Public Works							
Program:	4740 - Public Works	- Engineering						
5101		Salaries - Permanent	229,239	342,967	402,398	170,380	16,750	419,148
5105		Salaries - Overtime/FLSA	2,961	2,800	2,800	718	-	2,800
5106.10	00	Incentives & Admin Leave Administrative Leave	7,211	9,795	11,147	-	-	11,147
5106.20	00	Incentives & Admin Leave Gym Reimbursement	-	-	-	240	-	-
5107		Car Allowance/Mileage	1,200	1,200	1,200	700	-	1,200
5109.10	01	Allowances Boot Allowance	400	800	1,200	565	-	1,200
5111		Medicare	3,516	5,185	6,072	2,548	-	6,072
5112.10	01	GASB 68 - Pension Expense PERS	46,526	66,734	81,224	52,183	-	81,224
5113		Worker's Compensation	19,108	29,135	32,640	14,485	-	32,640
5114.10	01	Health Insurance Medical	20,462	43,529	53,397	17,085	-	53,397
5114.10	02	Health Insurance Dental	2,263	-	-	1,612	-	-
5114.10	03	Health Insurance Vision	198	-	-	141	-	-
5115		Unemployment Compensation	-	-	-	1,185	-	-
5116.10	01	Life and Disability Insurance Life & Disab.	677	3,504	4,441	531	-	4,441
5116.10	02	Life and Disability Insurance Long Term/Short Term Disability	2,267	-	-	1,847	-	-
5119.10	00	Retiree Costs Medical Insurance	6,077	7,213	7,213	1,779	-	7,213
5201.10	00	Office Supplies General	691	1,500	1,500	1,347	-	1,500
5202.10	00	Operating Supplies General	1,835	1,200	1,200	358	-	1,200
5203.10	00	Repairs and Maint Supplies General	94	100	100	-	-	100
5204		Subscriptions and Code Books	216	-	-	-	-	-
5209.10	01	Auto Fuel Expense Town Vehicles	2,301	1,800	1,800	1,239	-	1,800
5210.10	00	Postage General	121	1,000	1,000	18	-	1,000

Account Number	Account Description	FY 2021-22 Unaudited Actual Amount	FY 2022-23 Adopted Budget	FY 2022-23 Amended Budget	FY 2022-23 Actuals to Date	FY 2022-23 Proposed Amendments	FY 2022-23 Proposed Amended Budget
5213.100	Professional/Contract Services General	200,678	55,000	55,000	64,403	45,000	100,000
5214.100	Repair and Maint Service General	24,385	15,100	38,050	33,802	· -	38,050
5216.100	Communications General Services	2,213	2,082	2,082	1,623	-	2,082
5218.100	Advertising General	831	700	700	1,854	1,500	2,200
5219.100	Printing General	206	110	110	162	-	110
5220.100	Employee Development General	6,319	5,500	5,500	4,505	-	5,500
5223.105	Meals and Refreshments Emergencies and Meetings	383	-	-	37	-	-
5304	Furniture & Equipment	5,869	6,500	26,500	6,631	_	26,500
5305	Vehicles	-	30,000	75,200	· -	-	75,200
1	Program Total: 4740 - Public Works - Engineering	588,246	633,454	812,474	381,978	63,250	875,724
Program: 4745 - Parad	lise Community Park						
5202.100	Operating Supplies General	613	1,000	1,000	1,658	-	1,000
5203.100	Repairs and Maint Supplies General	2,017	1,000	1,000	459	-	1,000
5211.135	Utilities Water and Sewer	2,300	2,760	2,760	1,380	-	2,760
5211.137	Utilities Electric and Gas	2,230	2,050	2,050	1,007	-	2,050
5214.100	Repair and Maint Service General	59,024	58,800	58,800	32,043	-	58,800
5216.100	Communications General Services	274	275	275	139	<u> </u>	275
	Program Total: 4745 - Paradise Community Park	66,458	65,885	65,885	36,687	-	65,885
Program: 4747 - Public	Facilities						
5101	Salaries - Permanent	53,917	76,129	76,129	40,260	-	76,129
5105	Salaries - Overtime/FLSA	111	-	-	887	-	-
5106.100	Incentives & Admin Leave Administrative Leave	863	897	897	-	-	897
5109.101	Allowances Boot Allowance	99	560	560	560	-	560
5111	Medicare	735	1,125	1,125	544	-	1,125
5112.101	GASB 68 - Pension Expense PERS	11,079	13,913	13,913	11,188	-	13,913
5113	Worker's Compensation	13,693	15,515	15,515	7,713	-	15,515
5114.101	Health Insurance Medical	9,527	19,581	19,581	9,413	-	19,581
5114.102	Health Insurance Dental	1,649	-	-	1,476	-	-
5114.103	Health Insurance Vision	109	-	-	91	-	-
5115	Unemployment Compensation	-	-	-	257	-	-
5116.101	Life and Disability Insurance Life & Disab.	195	1,025	1,025	168	-	1,025
5116.102	Life and Disability Insurance Long Term/Short Term Disability	535	-	-	441	-	-
5201.100	Office Supplies General	64	-	-	182	-	-
5202.100	Operating Supplies General	-	-	-	24	-	-
5203.100	Repairs and Maint Supplies General	3,560	3,525	3,525	1,214	-	3,525
5211.135	Utilities Water and Sewer	5,061	4,380	4,380	2,328	-	4,380

Budget Worksheet Report as of January 30, 2023 TOWN OF PARADISE

FY 2021-22

FY 2022-23

FY 2022-23

FY 2022-23

FY 2022-23

FY 2022-23

Account Number	Account Description	Unaudited Actual Amount	Adopted Budget	Amended Budget	Actuals to Date	Proposed Amendments	Proposed Amended Budget
5211.136	Utilities Refuse Service	-	-	40,000	15,588	-	40,000
5214.100	Repair and Maint Service General	123,134	66,500	61,500	15,498	12,000	73,500
5216.100	Communications General Services	-	-	-	199	-	-
5218.100	Advertising General	140	140	140	-	-	140
5219.100	Printing General	27	25	25	43	-	25
5220.100	Employee Development General	200	-	-	-	-	-
5223.101	Meals and Refreshments Employee Meals-MOU Overtime	15	-	-	45	-	-
5303	Improvements		-	264,000	83,434		264,000
	Program Total: 4747 - Public Facilities	224,713	203,315	502,315	191,554	12,000	514,315
	Department Total: 45 - Public Works	879,417	902,654	1,380,674	610,220	75,250	1,455,924
	EXPENSES Total	16,124,144	20,064,414	20,715,284	8,072,248	145,500	20,860,784
	Fund REVENUE Total: 1010 - General Fund	16,247,741	19,753,420	20,260,290	7,655,292	145,500	20,405,790
	Fund EXPENSE Total: 1010 - General Fund	16,124,144	20,064,414	20,715,284	8,072,248	145,500	20,860,784
	Fund Total: 1010 - General Fund	123,598	(310,994)	(454,994)	(416,956)	-	(454,994)
	ity Development g and Onsite Inspections						
3380.102	Local Government Revenue Fines and Citations Onsite	2,800	1,000	1,000	-	-	1,000
3401.301	CDD Building Plan Check Fees	1,227,024	1,200,000	1,200,000	715,328	-	1,200,000
3401.302	CDD Building Construction Review-Bldg Permit	1,836,955	1,812,000	1,812,000	877,906	-	1,812,000
3401.306	CDD Building Development Permit/DIF Est Req	307	400	400	102	-	400
3401.308	CDD Building Solar System Plan Checks/Permits	-	-	-	(153)	-	-
3401.320	CDD Building Permit Valuation Surcharge	636	1,000	1,000	578	-	1,000
3404.116	Onsite Land Use Review	56,577	48,000	48,000	19,987	-	48,000
3404.117	Onsite Repairs to Maintain Existing Use	102,249	100,000	100,000	35,933	-	100,000
3404.118	Onsite New Installation Standard System	9,104	8,000	8,000	1,633	-	8,000
3404.119	Onsite Permit: Alteration/Expanded Use	53,655	45,000	45,000	32,582	-	45,000
3404.120	Onsite Review for Land Division	1,214	541	541	1,701	-	541
3404.125	Onsite Escrow Clearance	25,476	20,000	20,000	15,193	-	20,000
3404.126	Onsite Building Permit Clearance	48,381	46,000	46,000	25,873	-	46,000
3404.127	Onsite Operating Permit/Annual	378,424	385,000	385,000	229,015	-	385,000
3404.128	Onsite Construct Install Permit Renewal	-	272	272	-	-	272
3404.130	Onsite Water Well Clearance	94	190	190	-	-	190
3404.137	Onsite Alternative Systems Review	9,253	8,000	8,000	4,237	-	8,000
3404.138	Onsite Abandonment of Septic System	2,219	1,500	1,500	286	-	1,500

Ac	count Number	Account Description	FY 2021-22 Unaudited Actual Amount	FY 2022-23 Adopted Budget	FY 2022-23 Amended Budget	FY 2022-23 Actuals to Date	FY 2022-23 Proposed Amendments	FY 2022-23 Proposed Amended Budget
34	04.150	Onsite Annual Evaluator License Fee	817	850	850	1,177	-	850
34	04.151	Onsite Extension Req for Eval or Repair	-	-	-	33	-	-
34	10.150	Administrative Services Late Fees	16	-	-	-	-	-
34	22.337	Fire Code Enforcement Inspection	244,082	228,000	228,000	140,417	-	228,000
34	22.368	Fire Permit Fees	84,481	84,000	84,000	38,904	-	84,000
36	10.100	Interest Revenue Investments	2,556	10,000	10,000	-	-	10,000
39	01.100	Refunds and Reimbursements Miscellaneous	-	10,000	10,000	-	-	10,000
39	02.110	Miscellaneous Revenue Cash Over and Short	1	-	-	0	-	-
39	10.130	Transfers In From State Water Board Prop 1	14,351	-	-	-	-	-
39	10.221	Transfers In From WWAD	411,165	-	-	-	-	-
39	10.297	Transfers In Grants Miscellaneous State	83,451	-	-	23,442	-	-
39	10.627	Transfers In From Tech Equipment Replacement	-	116,000	116,000	-	-	116,000
39	10.628	Transfers In From Gen Plan Fee	-	-	-	48,341	-	-
	Progran	Total: 4730 - Building and Onsite Inspections	4,595,288	4,125,753	4,125,753	2,212,515	-	4,125,753
	De	epartment Total: 40 - Community Development	4,595,288	4,125,753	4,125,753	2,212,515	-	4,125,753
		REVENUES Total	4,595,288	4,125,753	4,125,753	2,212,515	-	4,125,753
EXPENSES								
Departmen	t: 40 - Communit	y Development						
Program	: 4730 - Building	and Onsite Inspections						
51	01	Salaries - Permanent	946,550	1,290,844	1,290,844	618,956	-	1,290,844
51	02	Salaries - Temporary	42,428	96,289	96,289	29,100	-	96,289
51	05	Salaries - Overtime/FLSA	1,421	5,000	5,000	-	-	5,000
51	06.100	Incentives & Admin Leave Administrative Leave	19,804	21,884	21,884	-	-	21,884

Account Number	Account Description	FY 2021-22 Unaudited Actual Amount	FY 2022-23 Adopted Budget	FY 2022-23 Amended Budget	FY 2022-23 Actuals to Date	FY 2022-23 Proposed Amendments	FY 2022-23 Proposed Amended Budget
 5106.200	Incentives & Admin Leave Gym Reimbursement	234	468	468	402		468
5107	Car Allowance/Mileage	2,372	2,448	2,448	1,402	-	2,448
5109.100	Allowances Uniform Allowance	3,675	3,028	3,028	2,031	-	3,028
5109.101	Allowances Boot Allowance	2,785	3,700	3,700	2,235	-	3,700
5111	Medicare	15,186	19,613	19,613	9,668	-	19,613
5112.101	GASB 68 - Pension Expense PERS	205,270	249,647	249,647	192,875	-	249,647
5112.102	GASB 68 - Pension Expense Social Security	767	5,970	5,970	806	-	5,970
5113	Worker's Compensation	31,170	28,639	28,639	14,238	-	28,639
5114.101	Health Insurance Medical	87,633	162,440	162,440	63,656	-	162,440
5114.102	Health Insurance Dental	17,467	-	-	11,212	-	-
5114.103	Health Insurance Vision	1,376	-	-	855	-	-
5115	Unemployment Compensation	(335)	-	-	4,521	-	-
5116.101	Life and Disability Insurance Life & Disab.	3,625	15,916	15,916	2,435	-	15,916
5116.102	Life and Disability Insurance Long Term/Short Term Disability	8,490	-	-	6,068	-	-
5119.100	Retiree Costs Medical Insurance	39,667	44,635	44,635	31,910	-	44,635
5122	Accrual Bank Payoff	8,234	-	-	807	-	-
5201.100	Office Supplies General	1,246	2,000	2,000	1,085	-	2,000
5202.100	Operating Supplies General	10,564	13,000	13,000	4,787	-	13,000
5203.100	Repairs and Maint Supplies General	22,984	26,500	26,500	1,176	-	26,500
5204	Subscriptions and Code Books	1,954	9,000	9,000	1,677	-	9,000
5209.101	Auto Fuel Expense Town Vehicles	10,308	7,000	7,000	6,915	-	7,000
5210.100	Postage General	(135)	1,500	1,500	(435)	-	1,500
5211.135	Utilities Water and Sewer	1,729	3,000	3,000	865	-	3,000
5211.137	Utilities Electric and Gas	30,784	45,600	45,600	21,066	-	45,600
5213.100	Professional/Contract Services General	1,033,858	903,650	903,650	307,721	-	903,650
5214.100	Repair and Maint Service General	156,889	258,490	258,490	140,756	-	258,490
5215.100	Rents and Leases Miscellaneous	2,080	2,300	2,300	1,073	-	2,300
5215.106	Rents and Leases Copiers	8,162	5,400	5,400	2,491	-	5,400
5216.100	Communications General Services	13,671	28,645	28,645	10,391	-	28,645
5218.100	Advertising General	690	500	500	160	-	500
5219.100	Printing General	611	1,000	1,000	172	-	1,000
5220.100	Employee Development General	8,525	30,000	30,000	11,300	-	30,000
5223.105	Meals and Refreshments Emergencies and Meetings	1,078	2,400	2,400	720	-	2,400
5225	Bank Fees and Charges	48,240	36,000	36,000	19,561	-	36,000
5303	Improvements	17,185	80,000	80,000	-	(5,700)	74,300
5304	Furniture & Equipment	6,665	45,300	45,300	23,476	-	45,300
5305	Vehicles	147,417	64,000	64,000	-	-	64,000

Account Number	Account Description	FY 2021-22 Unaudited Actual Amount	FY 2022-23 Adopted Budget	FY 2022-23 Amended Budget	FY 2022-23 Actuals to Date	FY 2022-23 Proposed Amendments	FY 2022-23 Proposed Amended Budget
5501	Debt Service Payment - Principal	7,944	4,830	4,830	3,757	5,700	10,530
5910.010	Transfers Out To General Fund	262,686	341,836	341,836	-	-	341,836
Program	Total: 4730 - Building and Onsite Inspections	3,232,956	3,862,472	3,862,472	1,551,890	-	3,862,472
Dep	partment Total: 40 - Community Development	3,232,956	3,862,472	3,862,472	1,551,890	-	3,862,472
	EXPENSES Total	3,232,956	3,862,472	3,862,472	1,551,890	-	3,862,472
Fund REVENUE	Total: 2030 - Building Safety & Waste Wtr Svcs	4,595,288	4,125,753	4,125,753	2,212,515	-	4,125,753
Fund EXPENSE	Total: 2030 - Building Safety & Waste Wtr Svcs	3,232,956	3,862,472	3,862,472	1,551,890	-	3,862,472
Fund To	otal: 2030 - Building Safety & Waste Wtr Svcs	1,362,332	263,281	263,281	660,625	-	263,281
Fund: 2070 - Animal Control REVENUES Department: 30 - Police Program: 4540 - Police - Animal Control	nimal Control						
3120.330	Other Taxes Voter Appointed Parcel Tax	131,776	130,000	130,000	79,830	-	130,000
3380.105	Local Government Revenue Fines and Citations Animal Cntrl	4,950	500	500	-	-	500
3410.113	Administrative Services Document Copying	-	25	25	-	-	25
3410.150	Administrative Services Late Fees	373	250	250	213	-	250
3455.200	Animal Control Adoption Fees	5,451	4,500	4,500	2,289	-	4,500
3455.205	Animal Control Surrender/Euth/Disp Fees	393	500	500	228	-	500
3455.210	Animal Control Dog Licenses	8,021	6,296	6,296	5,205	-	6,296
3455.215	Animal Control Dangerous/Wild Animal Permit	122	-	-	122	-	-
3455.225	Animal Control Impound/Quarantine Fees	6,545	6,000	6,000	2,169	-	6,000
3455.226	Animal Control Impound Unaltered State Fee	1,130	850	850	350	-	850
3901.100	Refunds and Reimbursements Miscellaneous	12,789	-	-	-	-	-
3902.100	Miscellaneous Revenue General	8	-	-	(0)	-	-
3910.010	Transfers In From General Fund	288,954	360,494	360,494	151,314	7,000	367,494
3910.138	Transfers In From USDA Fund	46,852	61,000	61,000	-	-	61,000
3910.811	Transfers In From Animal Control Donations	3,500	6,917	6,917	<u>-</u>	-	6,917
	Program Total: 4540 - Police - Animal Control	510,864	577,332	577,332	241,721	7,000	584,332
	Department Total: 30 - Police	510,864	577,332	577,332	241,721	7,000	584,332
	REVENUES Total	510,864	577,332	577,332	241,721	7,000	584,332

Account Number	Account Description	FY 2021-22 Unaudited Actual Amount	FY 2022-23 Adopted Budget	FY 2022-23 Amended Budget	FY 2022-23 Actuals to Date	FY 2022-23 Proposed Amendments	FY 2022-23 Proposed Amended Budget
EXPENSES	·						
Department: 30 - Police							
•	- Animal Control						
5101	Salaries - Permanent	173,551	215,048	215,048	78,963	_	215,048
5103.102	Differential Pay Out of Class	1,042	213,010	213,010	1,077	_	213,010
5104	Wages - PS Holiday Pay	8,606	10,273	10,273	3,842	-	10,273
5105	Salaries - Overtime/FLSA	1,360	2,500	2,500	1,080	-	2,500
5109.100	Allowances Uniform Allowance	2,359	2,558	2,558	1,094	-	2,558
5111	Medicare	2,572	3,340	3,340	1,173	-	3,340
5112.101	GASB 68 - Pension Expense PERS	39,508	43,023	43,023	31,351	-	43,023
5113	Worker's Compensation	12,488	11,603	11,603	5,769	-	11,603
5114.101	Health Insurance Medical	23,272	33,194	33,194	11,739	-	33,194
5114.102	Health Insurance Dental	3,302	-	-	1,277	-	-
5114.103	Health Insurance Vision	185	-	-	70	-	-
5115	Unemployment Compensation	-	-	-	546	-	-
5116.101	Life and Disability Insurance Life & Disab.	867	3,171	3,171	407	-	3,171
5116.102	Life and Disability Insurance Long Term/Short Term Disability	2,049	-	-	845	-	-
5119.100	Retiree Costs Medical Insurance	8,837	9,295	9,295	4,675	-	9,295
5122	Accrual Bank Payoff	-	-	-	9	-	-
5201.100	Office Supplies General	30	475	475	298	-	475
5202.100	Operating Supplies General	8,611	9,900	9,900	3,047	-	9,900
5203.100	Repairs and Maint Supplies General	1,933	1,000	1,000	54	-	1,000
5204	Subscriptions and Code Books	144	180	180	-	-	180
5209.101	Auto Fuel Expense Town Vehicles	6,049	7,000	7,000	2,760	-	7,000
5210.100	Postage General	1	-	-	-	-	-
5211.135	Utilities Water and Sewer	528	1,055	1,055	176	-	1,055
5211.137	Utilities Electric and Gas	4,841	4,125	4,125	3,727	-	4,125
5211.139	Utilities Propane	4,015	5,000	5,000	2,478	-	5,000
5213.100	Professional/Contract Services General	29,489	16,050	16,050	17,316	-	16,050
5214.100	Repair and Maint Service General	8,894	10,637	10,637	4,297	-	10,637
5215.100	Rents and Leases Miscellaneous	-	1	1	-	-	1
5216.100	Communications General Services	2,419	2,630	2,630	871	-	2,630
5219.100	Printing General	42	400	400	-	-	400
5220.100	Employee Development General	1,532	8,750	8,750	160	-	8,750
5223.101	Meals and Refreshments Employee Meals-MOU Overtime	-	30	30	-	-	30
5225	Bank Fees and Charges	1,473	1,250	1,250	594	-	1,250
5303	Improvements	-	4,500	4,500	-	-	4,500

Account Number	Account Description	FY 2021-22 Unaudited Actual Amount	FY 2022-23 Adopted Budget	FY 2022-23 Amended Budget	FY 2022-23 Actuals to Date	FY 2022-23 Proposed Amendments	FY 2022-23 Proposed Amended Budget
5305	Vehicles	106,229	104,000	104,000	-	7,000	111,000
5910.010	Transfers Out To General Fund	54,357	66,344	66,344	-	-	66,344
	Program Total: 4540 - Police - Animal Control	510,584	577,332	577,332	179,694	7,000	584,332
	Department Total: 30 - Police	510,584	577,332	577,332	179,694	7,000	584,332
	EXPENSES Total	510,584	577,332	577,332	179,694	7,000	584,332
	Fund REVENUE Total: 2070 - Animal Control	510,864	577,332	577,332	241,721	7,000	584,332
	Fund EXPENSE Total: 2070 - Animal Control	510,584	577,332	577,332	179,694	7,000	584,332
	Fund Total: 2070 - Animal Control	280	-	-	62,026	-	-
·	Department Activity						
Program: 0000 - Non	Program Activity						
3320.100	Federal Revenue - Other Refunds and Reimbursements	1,109,830	-	-	-	-	-
3345.100	State Revenues - Other Refunds & Reimbursements	379,607	4,642,667	4,642,667	-	-	4,642,667
3901.145	Refunds and Reimbursements Insurance Proceeds	37,849	648,150	648,150	-	15,500	663,650
3902.100	Miscellaneous Revenue General	5,412	_	-	475	-	_
3910.010	Transfers In From General Fund	-	373,273	373,273	_	-	373,273
3910.136	Transfers In From FEMA Grants FHMG	76,749	376,188	376,188	-	-	376,188
3910.137	Transfers In EDA Grant	128,068	-	-	-	-	-
3910.301	Transfers In CDBG - DR	115,926	309,511	309,511	-	-	309,511
3910.815	Transfers In From General Misc Donations	45,224	=	-	-	-	-
	Program Total: 0000 - Non Program Activity	1,898,665	6,349,789	6,349,789	475	15,500	6,365,289
	Department Total: 00 - Non Department Activity	1,898,665	6,349,789	6,349,789	475	15,500	6,365,289
	REVENUES Total	1,898,665	6,349,789	6,349,789	475	15,500	6,365,289
·	Department Activity Program Activity						
5213.100	Professional/Contract Services General	1,100	-	-	-	-	-
	Cost Center Activity Total	1,100	-	-	-	-	-
Cost Center Activity:	504 - FEMA Safety Assessment (SAP) B10						
5224	Travel Expenses - Lodging, Airfare, Incidentals	(154)	-	-	-	-	-
Cost Center Activ	ity Total: 504 - FEMA Safety Assessment (SAP) B10	(154)	-	-	-	-	-
Cost Center Activity:	506 - FEMA Administrative Costs Z1						
5213.100	Professional/Contract Services General	102,150	45,000	45,000			45,000
Cost Center	Activity Total: 506 - FEMA Administrative Costs Z1	102,150	45,000	45,000	-	-	45,000

Account Number	Account Description	FY 2021-22 Unaudited Actual Amount	FY 2022-23 Adopted Budget	FY 2022-23 Amended Budget	FY 2022-23 Actuals to Date	FY 2022-23 Proposed Amendments	FY 2022-23 Proposed Amended Budget
Cost Center Activity:	507 - FEMA Haz Tree Removal (P2) - A1					_	
5202.100	· ·	2,000			478		
	Operating Supplies General	·	-	-	4/0	-	-
5209.105	Auto Fuel Expense Employee Personal Vehicle Use	73	-	-	-	-	-
5213.100	Professional/Contract Services General	148,164	-	-	20,621	<u> </u>	-
Cost Center Act	ivity Total: 507 - FEMA Haz Tree Removal (P2) - A1	150,237	-	-	21,099	-	-
Cost Center Activity:	556 - Insurance Veh & Equip Repair/Rep						
5910.120	Transfers Out To State Gas Tax Fund	120,609	-	-	-	15,500	15,500
Cost Center Activ	vity Total: 556 - Insurance Veh & Equip Repair/Rep	120,609	-	-	-	15,500	15,500
Cost Center Activity:	560 - Insurance Claim Preparation						
5213.100	Professional/Contract Services General	56,740	10,000	10,000	-		10,000
Cost Cente	er Activity Total: 560 - Insurance Claim Preparation	56,740	10,000	10,000	-	-	10,000
Cost Center Activity:	561 - HMGP Administration						
5213.100	Professional/Contract Services General	12,546	-	-	-	-	-
Cos	st Center Activity Total: 561 - HMGP Administration	12,546	-	-	-	-	-
	Program Total: 0000 - Non Program Activity	443,227	55,000	55,000	21,099	15,500	70,500
	Department Total: 00 - Non Department Activity	443,227	55,000	55,000	21,099	15,500	70,500
Department: 30 - Police							
Program: 4540 - Poli	ce - Animal Control						
Cost Center Activity:	572 - NV Grant-Animal Control & Shelte						
5303	Improvements	4,905	-	-	-	-	-
Cost Center Act	ivity Total: 572 - NV Grant-Animal Control & Shelte	4,905	-	-	-	-	-
	Program Total: 4540 - Police - Animal Control	4,905	-	-	-	-	-
	Department Total: 30 - Police	4,905	-	-	-	-	-
Department: 45 - Public	Works						
Program: 4740 - Pub	lic Works - Engineering						
Cost Center Activity:	506 - FEMA Administrative Costs Z1						
5213.100	Professional/Contract Services General	(7,426)	-	_	-	-	-
Cost Center	Activity Total: 506 - FEMA Administrative Costs Z1	(7,426)	-	-	-	-	-
Cost Center Activity:	559 - Insurance - Infrastructure	, ,					
5213.100	Professional/Contract Services General	(28,875)	-	-	_	-	-
	nter Activity Total: 559 - Insurance - Infrastructure	(28,875)	-	-	-	-	-
	Program Total: 4740 - Public Works - Engineering	(36,301)	-	-	-	-	-
Program: 4743 - Stre	ets and Roads	(, ,					
Cost Center Activity:	506 - FEMA Administrative Costs Z1						
5213.100	Professional/Contract Services General	(2,222)	-	-	-	-	-
	Activity Total: 506 - FEMA Administrative Costs Z1	(2,222)	-	-	-	-	-
	Program Total: 4743 - Streets and Roads	(2,222)	-		_	-	-
	. 3	(2,222)					

Account Number	Account Description	FY 2021-22 Unaudited Actual Amount	FY 2022-23 Adopted Budget	FY 2022-23 Amended Budget	FY 2022-23 Actuals to Date	FY 2022-23 Proposed Amendments	FY 2022-23 Proposed Amended Budget
	· · · · · · · · · · · · · · · · · · ·						
Program: 4747 - Pub							
Cost Center Activity:	558 - Insurance Extra Expense						
5214.100	Repair and Maint Service General	31,750	-	-	3,639	-	-
Cost C	enter Activity Total: 558 - Insurance Extra Expense	31,750	-	-	3,639	-	-
	Program Total: 4747 - Public Facilities	31,750	-	-	3,639	-	-
Program: 4750 - Pub	lic Works - Streets Maint.						
Cost Center Activity:	505 - FEMA Toxic Debris Removal A2&3						
5203.100	Repairs and Maint Supplies General		-	-	5	-	-
Cost Center Act	ivity Total: 505 - FEMA Toxic Debris Removal A2&3	-	-	-	5	-	-
Cost Center Activity:	508 - FEMA - Culverts - C1-10						
5910.120	Transfers Out To State Gas Tax Fund	2,754	-	-	-	-	-
8408	Off-System Culvert Repair	27,965	607,790	607,790	497,835		607,790
Cost	Center Activity Total: 508 - FEMA - Culverts - C1-10	30,718	607,790	607,790	497,835	-	607,790
Cost Center Activity:	509 - FEMA - Non Fed Aid Roads - C2						
5910.120	Transfers Out To State Gas Tax Fund	29,395	41,539	41,539	-	-	41,539
8407	Off System Road Rehabilitation	1,413,901	4,006,488	4,006,488	105,715		4,006,488
Cost Center	Activity Total: 509 - FEMA - Non Fed Aid Roads - C2	1,443,296	4,048,027	4,048,027	105,715	-	4,048,027
Cost Center Activity:	516 - FEMA - Camp Fire Hydrant Repairs						
8404	Camp Fire Hydrant Repairs		251,361	251,361			251,361
Cost Center Acti	vity Total: 516 - FEMA - Camp Fire Hydrant Repairs	-	251,361	251,361	-	-	251,361
Cost Center Activity:	554 - Insurance Facility Yard Equip						
5304	Furniture & Equipment		-	-	2,285		<u>-</u> _
Cost Cente	r Activity Total: 554 - Insurance Facility Yard Equip	-	-	-	2,285	-	-
Cost Center Activity:	556 - Insurance Veh & Equip Repair/Rep						
5215.131	Rents and Leases Street Maintenance Equipment	-	10,000	10,000	-	-	10,000
Cost Center Activ	rity Total: 556 - Insurance Veh & Equip Repair/Rep	-	10,000	10,000	-	-	10,000
Cost Center Activity:	559 - Insurance - Infrastructure						
5203.100	Repairs and Maint Supplies General	-	-	-	629	-	-
5910.100	Transfers Out To Capital Projects	-	500,000	500,000	-	-	500,000
5910.105	Transfers Out To Camp Fire Recovery Projects	-	96,400	96,400	-	-	96,400
8402	Trailway Lighting Repairs	540	31,750	31,750	-	-	31,750
8403	Skyway/Pearson Traffic Signal Repair	287,408	-	-	52,282	-	-
Cost Cer	nter Activity Total: 559 - Insurance - Infrastructure	287,948	628,150	628,150	52,910	-	628,150
F	Program Total: 4750 - Public Works - Streets Maint.	1,761,962	5,545,328	5,545,328	658,751	-	5,545,328
	Department Total: 45 - Public Works	1,755,190	5,545,328	5,545,328	662,390	-	5,545,328

Department: 65 - Emergency Mngmt & Disaster Recov

Program: 4205 - Disaster Recovery

Account Number	Account Description	FY 2021-22 Unaudited Actual Amount	FY 2022-23 Adopted Budget	FY 2022-23 Amended Budget	FY 2022-23 Actuals to Date	FY 2022-23 Proposed Amendments	FY 2022-23 Proposed Amended Budget
Cost Center Activity:	590 - Disaster Management						
5101	Salaries - Permanent	196,929	337,215	337,215	138,389	-	337,215
5102	Salaries - Temporary	8,414	43,215	43,215	5,217	-	43,215
5103.102	Differential Pay Out of Class	632	-	-	-	-	-
5106.100	Incentives & Admin Leave Administrative Leave	7,945	12,371	12,371	-	-	12,371
5106.200	Incentives & Admin Leave Gym Reimbursement	-	-	-	300	-	-
5107	Car Allowance/Mileage	2,400	2,400	2,400	1,400	-	2,400
5109.101	Allowances Boot Allowance	-	-	-	300	-	-
5111	Medicare	3,429	5,730	5,730	2,216	-	5,730
5112.101	GASB 68 - Pension Expense PERS	62,633	64,379	64,379	46,856	-	64,379
5113	Worker's Compensation	2,236	1,978	1,978	983	-	1,978
5114.101	Health Insurance Medical	11,451	41,402	41,402	9,802	-	41,402
5114.102	Health Insurance Dental	2,017	-	-	1,602	-	-
5114.103	Health Insurance Vision	-	-	-	31	-	-
5115	Unemployment Compensation	-	-	-	1,032	-	-
5116.101	Life and Disability Insurance Life & Disab.	628	3,601	3,601	456	-	3,60
5116.102	Life and Disability Insurance Long Term/Short Term Disability	1,963	-	-	1,504	-	-
5122	Accrual Bank Payoff	11,921	-	-	-	-	-
5201.100	Office Supplies General	669	300	300	447	-	30
5202.100	Operating Supplies General	106	200	200	-	-	20
5203.100	Repairs and Maint Supplies General	-	619	619	-	-	61
5204	Subscriptions and Code Books	15	-	-	84	-	-
5213.100	Professional/Contract Services General	126,229	118,577	118,577	59,780	-	118,57
5216.100	Communications General Services	494	10,600	10,600	5,858	-	10,60
5218.100	Advertising General	280	125	125	451	-	12
5219.100	Printing General	80	-	-	300	-	-
5220.100	Employee Development General	2,090	8,500	8,500	1,219	-	8,50
5223.105	Meals and Refreshments Emergencies and Meetings	-	2,500	2,500	42	-	2,50
5304	Furniture & Equipment	2,932	1,000	1,000	247	-	1,00
5910.010	Transfers Out To General Fund	60,264	94,749	94,749	-	-	94,74
5910.105	Transfers Out To Camp Fire Recovery Projects	37,849	-	-	<u>-</u>		-
Cos	st Center Activity Total: 590 - Disaster Management	543,604	749,461	749,461	278,514	-	749,46
	Program Total: 4205 - Disaster Recovery	543,604	749,461	749,461	278,514	-	749,46
Departm	nent Total: 65 - Emergency Mngmt & Disaster Recov	543,604	749,461	749,461	278,514	-	749,46
	EXPENSES Total	2,746,926	6,349,789	6,349,789	962,002	15,500	6,365,28
	Fund REVENUE Total: 2090 - Camp Fire 2018	1,898,665	6,349,789	6,349,789	475	15,500	6,365,289

Account Number	Account Description	FY 2021-22 Unaudited Actual Amount	FY 2022-23 Adopted Budget	FY 2022-23 Amended Budget	FY 2022-23 Actuals to Date	FY 2022-23 Proposed Amendments	FY 2022-23 Proposed Amended Budget
7 decente Hamber	Fund EXPENSE Total: 2090 - Camp Fire 2018	2,746,926	6,349,789	6,349,789	962,002	15,500	6,365,289
	Fund Total: 2090 - Camp Fire 2018	(848,262)	-	-	(961,527)	-	-
Fund: 2095 - COVID-19		(0.10/202)			(302/327)		
REVENUES							
Department: 00 - No	n Department Activity						
Program: 0000 - N	Ion Program Activity						
Cost Center Activity	: 595 - COVID-19 - Emergency Response						
3320.100	Federal Revenue - Other Refunds and Reimbursements	25,983	-	-	-	-	-
3345.100	State Revenues - Other Refunds & Reimbursements	1,339,227	1,396,407	1,396,407	-	-	1,396,407
3610.100	Interest Revenue Investments	687	-	-	-	-	-
Cost Center	Activity Total: 595 - COVID-19 - Emergency Response	1,365,896	1,396,407	1,396,407	-	-	1,396,407
	Program Total: 0000 - Non Program Activity	1,365,896	1,396,407	1,396,407	-	-	1,396,407
	Department Total: 00 - Non Department Activity	1,365,896	1,396,407	1,396,407	-	-	1,396,407
	REVENUES Total	1,365,896	1,396,407	1,396,407	-	-	1,396,407
•	on Department Activity Ion Program Activity 1: 595 - COVID-19 - Emergency Response						
5101	Salaries - Permanent	52,056	50,000	50,000	28,904	-	50,000
5111	Medicare	702	-	-	397	-	-
5112.101	GASB 68 - Pension Expense PERS	3,775	-	-	2,390	-	-
5114.101	Health Insurance Medical	4,043	-	-	2,145	-	-
5114.103	Health Insurance Vision	66	-	-	34	-	-
5115	Unemployment Compensation	-	-	-	175	-	-
5116.101	Life and Disability Insurance Life & Disab.	206	-	-	88	-	-
5116.102	Life and Disability Insurance Long Term/Short Term Disability	519	-	-	14	-	-
5202.100	Operating Supplies General	6,930	17,500	17,500	788	-	17,500
5203.100	Repairs and Maint Supplies General	2,219	-	-	-	-	-
5213.100	Professional/Contract Services General	500	5,000	5,000	-	-	5,000
5214.100	Repair and Maint Service General	1,500	-	-	-	-	-
5304	Furniture & Equipment	-	5,000	5,000	-	-	5,000
5910.010	Transfers Out To General Fund	-	102,000	361,000	-	-	361,000
5910.105	Transfers Out To Camp Fire Recovery Projects	-	820,000	1,328,361	-	-	1,328,361
Cost Center	Activity Total: 595 - COVID-19 - Emergency Response	72,515	999,500	1,766,861	34,935	-	1,766,861
	Program Total: 0000 - Non Program Activity	72,515	999,500	1,766,861	34,935	-	1,766,861
	Department Total: 00 - Non Department Activity	72,515	999,500	1,766,861	34,935	-	1,766,861

Account Number Account Description	FY 2021-22 Unaudited Actual Amount	FY 2022-23 Adopted Budget	FY 2022-23 Amended Budget	FY 2022-23 Actuals to Date	FY 2022-23 Proposed Amendments	FY 2022-23 Proposed Amended Budget
<u> </u>						
Department: 20 - Administrative Services						
Program: 4202 - Information Technology						
Cost Center Activity: 595 - COVID-19 - Emergency Response						
5304 Furniture & Equipment	1,005	-	-	-		
Cost Center Activity Total: 595 - COVID-19 - Emergency Response	1,005	-	-	-		
Program Total: 4202 - Information Technology	1,005	-	-	-		-
Program: 4203 - HR and Risk Management						
Cost Center Activity: 595 - COVID-19 - Emergency Response						
5202.100 Operating Supplies General	110	-	-	-		<u> </u>
Cost Center Activity Total: 595 - COVID-19 - Emergency Response	110	-	-	-		
Program Total: 4203 - HR and Risk Management	110	-	-	-		
Department Total: 20 - Administrative Services	1,116	-	-	-		
Department: 30 - Police						
Program: 4510 - Police Administration						
Cost Center Activity: 595 - COVID-19 - Emergency Response						
5213.100 Professional/Contract Services General	150	-	-	-		
Cost Center Activity Total: 595 - COVID-19 - Emergency Response	150	-	-	-		
Program Total: 4510 - Police Administration	150	-	-	-		
Program: 4520 - Police Operations						
Cost Center Activity: 595 - COVID-19 - Emergency Response						
5213.100 Professional/Contract Services General	147	-	-	-		
Cost Center Activity Total: 595 - COVID-19 - Emergency Response	147	-	-	-		
Program Total: 4520 - Police Operations	147	-	-	-		
Department Total: 30 - Police	297	-	-	-		
Department: 35 - Fire						
Program: 4610 - Fire - Administrative						
Cost Center Activity: 595 - COVID-19 - Emergency Response						
5214.100 Repair and Maint Service General	<u>-</u>	150,000	<u>-</u>	754		_
5303 Improvements	<u>-</u>	-	205,240	-		- 205,240
Cost Center Activity Total: 595 - COVID-19 - Emergency Response	-	150,000	205,240	754		- 205,240
Program Total: 4610 - Fire - Administrative		150,000	205,240	754		- 205,240
Department Total: 35 - Fire		150,000	205,240	754		- 205,240
Department: 40 - Community Development		155,000	203,210	751		233,210
Program: 4720 - CDD Planning						
Cost Center Activity: 595 - COVID-19 - Emergency Response						
	2,127		_	_		_
5202.100 Operating Supplies General Cost Center Activity Total: 595 - COVID-19 - Emergency Response	2,127	-	-	-		
cost center Activity Total, 333 - COVID-13 - Entergency Response	2,127	•	-	•		-

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FY 2022-23

Account Number	Account Description	FY 2021-22 Unaudited Actual Amount	FY 2022-23 Adopted Budget	FY 2022-23 Amended Budget	FY 2022-23 Actuals to Date	Proposed Amendments	Proposed Amended Budget
/iccount number	· · · · · · · · · · · · · · · · · · ·	2.127					
Program: 4730 - Build	Program Total: 4720 - CDD Planning ding and Onsite Inspections	2,127	-	-	-	-	-
_	·						
Cost Center Activity:	595 - COVID-19 - Emergency Response	42					
5202.100	Operating Supplies General	43	-	-	-	-	-
	tivity Total: 595 - COVID-19 - Emergency Response	43	-	-	-	-	-
Pro	gram Total: 4730 - Building and Onsite Inspections	43	-	-	-	-	-
Device two sets of E. Buldin	Department Total: 40 - Community Development	2,170	-	-	-	-	-
Department: 45 - Public							
Program: 4747 - Publ							
Cost Center Activity:	595 - COVID-19 - Emergency Response		40.000	10.000	44.500		10.000
5214.100	Repair and Maint Service General		10,000	10,000	11,529	-	10,000
Cost Center Act	tivity Total: 595 - COVID-19 - Emergency Response		10,000	10,000	11,529	-	10,000
	Program Total: 4747 - Public Facilities	-	10,000	10,000	11,529	-	10,000
	lic Works - Streets Maint.						
Cost Center Activity:	595 - COVID-19 - Emergency Response						
5215.100	Rents and Leases Miscellaneous	22,218	-	-	-	-	-
	tivity Total: 595 - COVID-19 - Emergency Response	22,218	-	-	-	-	-
Р	Program Total: 4750 - Public Works - Streets Maint.	22,218	-	-	-	-	-
	Department Total: 45 - Public Works	22,218	10,000	10,000	11,529	-	10,000
	gency Mngmt & Disaster Recov						
-	ester Recovery						
Cost Center Activity:	595 - COVID-19 - Emergency Response						
5213.100	Professional/Contract Services General		200,000	200,000	-		200,000
Cost Center Act	tivity Total: 595 - COVID-19 - Emergency Response		200,000	200,000	-	-	200,000
	Program Total: 4205 - Disaster Recovery		200,000	200,000	-	-	200,000
Departmo	ent Total: 65 - Emergency Mngmt & Disaster Recov		200,000	200,000	-	-	200,000
	EXPENSES Total	98,316	1,359,500	2,182,101	47,218	-	2,182,101
	Fund REVENUE Total: 2095 - COVID-19	1,365,896	1,396,407	1,396,407	-	-	1,396,407
	Fund EXPENSE Total: 2095 - COVID-19	98,316	1,359,500	2,182,101	47,218	-	2,182,101
	Fund Total: 2095 - COVID-19	1,267,581	36,907	(785,694)	(47,218)	-	(785,694)
Fund: 2100 - CIP Fund							
REVENUES							
Department: 50 - CIP P	rograms						
Program: 8901 - CIP	Programs						
3910.090	Transfers In From Camp Fire Recovery	-	500,000	500,000	-	-	500,000
3910.110	Transfers In From Local Transportation Fund	196,416	676,099	776,099	298,928	-	776,099
3910.112	Transfers In From Federal CMAQ Fund	1,180,929	714,894	714,894	- -	-	714,894
	-		•	•			•

Accou	unt Number	Account Description	FY 2021-22 Unaudited Actual Amount	FY 2022-23 Adopted Budget	FY 2022-23 Amended Budget	FY 2022-23 Actuals to Date	FY 2022-23 Proposed Amendments	FY 2022-23 Proposed Amended Budget
3910.	.120	Transfers In From State Gas Tax Fund	-	_	60,000	-	-	60,000
3910.	.130	Transfers In From State Water Board Prop 1	896,593	303,782	303,782	-	350,000	653,782
3910.	.132	Transfers In From HSIP Grant	26,540	9,000	9,000	-	-	9,000
3910.	.133	Transfers In From ATP Grant	2,918,736	886,017	886,017	-	-	886,017
3910.	.161	Transfers In From BHS HUD Revolving Loan Fund	-	126,957	126,957	-	-	126,957
3910.	.301	Transfers In CDBG - DR	106,221	-	-	-	-	-
3910.	.315	Transfers In From BHS CDBG 2015 Grant	-	9,671	9,671	-	-	9,671
3910.	.316	Transfers In From BHS CDBG 2016 Grant	-	40,000	40,000	-	-	40,000
3910.	.317	Transfers In From BHS CDBG 2017 Grant	-	13,223	13,223	-	-	13,223
3910.	.318	Transfers In From BHS CDBG 2018 Grant	-	120,701	120,701	-	-	120,701
3910.	.319	Transfers In From BHS CDBG 2019 Grant	-	117,833	117,833	-	-	117,833
3910.	.320	Transfers In From BHS CDBG 2020 Grant	-	33,943	33,943	-	-	33,943
3910.	.321	Transfers In From BHS CDBG 2021 Grant	-	80,650	80,650	-	-	80,650
3910.	.322	Transfers In From BHS CDBG 2022 Grant	-	57,000	57,000	-	-	57,000
3910.	.551	Transfers In From Impact Fees Drainage Fund	-	-	250,000	-	-	250,000
		Program Total: 8901 - CIP Programs	5,325,435	3,689,770	4,099,770	298,928	350,000	4,449,770
		Department Total: 50 - CIP Programs	5,325,435	3,689,770	4,099,770	298,928	350,000	4,449,770
		REVENUES Total	5,325,435	3,689,770	4,099,770	298,928	350,000	4,449,770
Department: Program:	50 - CIP Programs 8901 - CIP Program	s						
9377		Almond Multi-Modal Improvements	978,415	819,681	819,681	796,562	-	819,681
9380		Ponderosa Safe Routes to School	1,001,407	74,000	74,000	11,527	-	74,000
9385		Paradise Gap Closure Complex	1,496,370	867,435	867,435	807,496	-	867,435
9389		Pentz Pathway Ph II Project	606,045	187,450	287,450	101,163	-	287,450
9390		Skyway-Neal Bike-Ped Project	129,827	291,188	291,188	59,421	-	291,188
9391		Oliver Curve Pathway Project	187,213	236,256	236,256	62,536	-	236,256
9394		Downtown Sewer Environmental Study	896,593	303,782	303,782	495,527	350,000	653,782
9408		Systemic Intersection Safety Improvements	29,489	10,000	10,000	24,638	-	10,000
9416		Pavement Management Program Update	-	-	60,000	-	-	60,000
9417		CDBG Sidewalk Improvements 2022 - HUD funding	150	899,978	794,978	165,671	-	794,978
9418		Stearns Road Emergency Culvert Replacement	-	-	250,000	197,919	-	250,000
9420		Interim Safety Striping 2022	-	-	105,000	95,098	-	105,000
		Program Total: 8901 - CIP Programs	5,325,509	3,689,770	4,099,770	2,817,559	350,000	4,449,770
		Department Total: 50 - CIP Programs	5,325,509	3,689,770	4,099,770	2,817,559	350,000	4,449,770
		EXPENSES Total	5,325,509	3,689,770	4,099,770	2,817,559	350,000	4,449,770

				FY 2021-22 Unaudited Actual Amount	FY 2022-23 Adopted Budget	FY 2022-23 Amended Budget	FY 2022-23 Actuals to Date	FY 2022-23 Proposed Amendments	FY 2022-23 Proposed Amended Budget
Accou	nt Number	Account Description		Amount				Amendments	Amended budget
		Fund REVENUE	Total: 2100 - CIP Fund	5,325,435	3,689,770	4,099,770	298,928	350,000	4,449,770
		Fund EXPENSE	Total: 2100 - CIP Fund	5,325,509	3,689,770	4,099,770	2,817,559	350,000	4,449,770
		Fund 1	Total: 2100 - CIP Fund	(74)	-	-	(2,518,632)	-	-
Fund: 2105 - Di	saster Recovery Pro	jects							
REVENUES									
Department:	65 - Emergency I	Mngmt & Disaster Reco	VOV						
Program:	4205 - Disaster R	ecovery							
3910.	010	Transfers In From G	eneral Fund	76,732	60,000	124,080	-	-	124,080
3910.	090	Transfers In From Ca	amp Fire Recovery	37,849	96,400	96,400	-	-	96,400
3910.	095	Transfers In From Co	OVID-19 Fund	-	820,000	1,328,361	-	-	1,328,361
3910.	130	Transfers In From St	tate Water Board Prop 1	47,499	492,546	492,546	-	-	492,546
3910.	136	Transfers In From FE	EMA Grants FHMG	265,741	4,263,497	4,263,497	511,314	-	4,263,497
3910.	137	Transfers In EDA Gra	ant	1,056,645	503,571	503,571	-	-	503,571
3910.	138	Transfers In From U	SDA Fund	48,900	-	-	-	-	-
3910.	139	Transfers In From Fl	HWA Funds	1,396,268	8,721,598	8,721,598	-	165,551	8,887,149
3910.	280	Transfers In From N	orth Valley/Butte Strong	37,236	-	-	-	-	-
3910.	298	Transfers In Grants I	Miscellaneous Federal	-	615,000	615,000	-	-	615,000
3910.	299	Transfers In From G	rants Misc One Time Fund	73,975	134,816	134,816	-	-	134,816
3910.	301	Transfers In CDBG -	DR	376,417	4,027,284	4,027,284	-	21,449	4,048,733
3910.	815	Transfers In From G	eneral Misc Donations	4,071	-	-	-	-	-
		Program Total: 420	05 - Disaster Recovery	3,421,332	19,734,712	20,307,153	511,314	187,000	20,494,153
	Department To	tal: 65 - Emergency Mr	ngmt & Disaster Recov	3,421,332	19,734,712	20,307,153	511,314	187,000	20,494,153
			REVENUES Total	3,421,332	19,734,712	20,307,153	511,314	187,000	20,494,153
EXPENSES									
Department:	65 - Emergency I	Mngmt & Disaster Reco	OV						
Program:	4205 - Disaster R	ecovery							
7100		Building Resource Ce	enter (BRC)	12,236	50,000	50,000	-	-	50,000
7105		Police Department R		86,749	-	-	-	-	-
7106		Portable and Mobile	Police Radios	-	711,400	711,400	718,944	-	711,400
7200		Public Safety Power	Shutoff Preparedness	30,829	30,829	30,829	-	-	30,829
7301		On-System Culvert R	Replacement	652,748	122,856	122,856	139,483	37,000	159,856
7302		On-System Hardscap	pe Replacement	552,629	10,000	10,000	138,875	150,000	160,000
7303		On-System Road Rel	habilitation	418,498	9,840,586	9,840,586	5,148,376	-	9,840,586
7304		On-System Sign Rep	lacement	18,236	274,200	274,200	2,979	-	274,200
7307		Neal Road Rehabilita	ation	41,956	-	-	-	-	-
7308		Storm Drain Master I	Plan	295,838	-	-	2,142	-	-
7309		Transportation Maste	er Plan	1,056,645	503,571	503,571	70,201	-	503,571

Accou	nt Number	Account Description	FY 2021-22 Unaudited Actual Amount	FY 2022-23 Adopted Budget	FY 2022-23 Amended Budget	FY 2022-23 Actuals to Date	FY 2022-23 Proposed Amendments	FY 2022-23 Proposed Amended Budget
7312		Category 4 Tree Removal	5,011	1,975,000	2,065,000	119,261		2,065,000
7313		Residential Ignition Resistant Program	104	137,337	137,337	-	-	137,337
7314		Early Warning System	132	2,952,325	2,952,325	573,188	-	2,952,325
7315		Hazardous Fuel Reduction Program	104	445,000	445,000	-	-	445,000
7316		Defensible Space Code Enforcement	105	175,000	175,000	-	-	175,000
7317		Reseeding Program	53,065	-	-	-	-	-
7320		SWRCB - Septic Grant (3 Years)	47,499	492,546	492,546	158,964	-	492,546
7321		Emergency Operations Plan Update	33,170	50,000	50,000	-	-	50,000
7322		Long Term Recovery Plan Update	85,642	60,000	60,000	25,646	-	60,000
7323		California Resilience Challenge 2021 Grant	48,975	134,816	134,816	42,209	-	134,816
7324		Restoration of Dispatch Services	7,920	820,000	1,302,441	216,486		1,302,441
		Program Total: 4205 - Disaster Recovery	3,448,090	18,785,466	19,357,907	7,356,755	187,00	0 19,544,907
	Department Total	l: 65 - Emergency Mngmt & Disaster Recov	3,448,090	18,785,466	19,357,907	7,356,755	187,00	0 19,544,907
		EXPENSES Total	3,448,090	18,785,466	19,357,907	7,356,755	187,00	0 19,544,907
	Fund REVE	NUE Total: 2105 - Disaster Recovery Projects	3,421,332	19,734,712	20,307,153	511,314	187,00	0 20,494,153
	Fund EXPE	NSE Total: 2105 - Disaster Recovery Projects	3,448,090	18,785,466	19,357,907	7,356,755	187,00	0 19,544,907
	Fun	nd Total: 2105 - Disaster Recovery Projects	(26,759)	949,246	949,246	(6,845,441)	-	949,246
REVENUES Department: Program:	00 - Non Departme	n Activity	242.002	724.649	224.649	224 472		224.649
3345.0	001	State Revenues - Other LTF - Local Transit Funds	240,000	731,640	831,640	331,478	-	831,640
3610.1		Interest Revenue Investments	176	-	-	-	-	-
3910.9		Transfers In From Transit Fund		28,720	28,720	-		28,720
		rogram Total: 0000 - Non Program Activity	240,176	760,360	860,360	331,478	-	860,360
	Depar	tment Total: 00 - Non Department Activity	240,176	760,360	860,360	331,478	-	860,360
		REVENUES Total	240,176	760,360	860,360	331,478	-	860,360
EXPENSES								
Department:	00 - Non Departme	,						
Program:	0000 - Non Program	•						
5910.1		Transfers Out To State Gas Tax Fund	7,034	62,682	62,682	-	-	62,682
		rogram Total: 0000 - Non Program Activity	7,034	62,682	62,682	-	-	62,682
		tment Total: 00 - Non Department Activity	7,034	62,682	62,682	-	-	62,682
Department:	45 - Public Works	Decide .						
Program:	4743 - Streets and I							
5101		Salaries - Permanent	26,475	41,975	42,477	19,934	-	42,477
5105		Salaries - Overtime/FLSA	74	-	-	18	-	-

Account Number	Account Description	FY 2021-22 Unaudited Actual Amount	FY 2022-23 Adopted Budget	FY 2022-23 Amended Budget	FY 2022-23 Actuals to Date	FY 2022-23 Proposed Amendments	FY 2022-23 Proposed Amended Budget
5106.100	Incentives & Admin Leave Administrative Leave	882	1,696	1,717	-	-	1,717
5106.200	Incentives & Admin Leave Gym Reimbursement	-	-	-	6	-	-
5107	Car Allowance/Mileage	48	48	48	28	-	48
5109.101	Allowances Boot Allowance	10	20	20	70	-	20
5111	Medicare	400	634	642	294	-	642
5112.101	GASB 68 - Pension Expense PERS	5,124	8,110	8,232	6,373	-	8,232
5113	Worker's Compensation	1,099	6,966	7,069	3,463	-	7,069
5114.101	Health Insurance Medical	1,898	4,502	4,502	1,682	-	4,502
5114.102	Health Insurance Dental	196	-	-	151	-	-
5114.103	Health Insurance Vision	16	-	-	12	-	-
5115	Unemployment Compensation	-	-	-	137	-	-
5116.101	Life and Disability Insurance Life & Disab.	65	387	415	50	-	415
5116.102	Life and Disability Insurance Long Term/Short Term Disability	259	-	-	217	-	-
5216.100	Communications General Services	173	105	105	116	-	105
5910.010	Transfers Out To General Fund	5,091	7,568	7,568	-	-	7,568
5910.100	Transfers Out To Capital Projects	196,416	676,099	776,099	298,928	-	776,099
	Program Total: 4743 - Streets and Roads	238,225	748,110	848,894	331,478	-	848,894
	Department Total: 45 - Public Works	238,225	748,110	848,894	331,478	-	848,894
	EXPENSES Total	245,259	810,792	911,576	331,478	-	911,576
	Fund REVENUE Total: 2110 - Transportation Fund	240,176	760,360	860,360	331,478	-	860,360
	Fund EXPENSE Total: 2110 - Transportation Fund	245,259	810,792	911,576	331,478	-	911,576
	Fund Total: 2110 - Transportation Fund	(5,082)	(50,432)	(51,216)	-	-	(51,216)
REVENUES Department: 00 - No	Congest Mgmt Air Qual on Department Activity Non Program Activity						
3310.200	Federal Funding CIP Funding	1,213,132	742,097	742,097	-		742,097
	Program Total: 0000 - Non Program Activity	1,213,132	742,097	742,097	-	-	742,097
	Department Total: 00 - Non Department Activity	1,213,132	742,097	742,097	-	-	742,097
	REVENUES Total	1,213,132	742,097	742,097	-	-	742,097
	on Department Activity Non Program Activity						
5910.100	Transfers Out To Capital Projects	1,180,929	714,894	714,894	-	-	714,894
5910.120	Transfers Out To State Gas Tax Fund	32,203	27,203	27,203	<u>-</u>	<u></u>	27,203
	Program Total: 0000 - Non Program Activity	1,213,132	742,097	742,097	-	-	742,097
	Department Total: 00 - Non Department Activity	1,213,132	742,097	742,097	-	-	742,097

Account Number	Account Description	FY 2021-22 Unaudited Actual Amount	FY 2022-23 Adopted Budget	FY 2022-23 Amended Budget	FY 2022-23 Actuals to Date	FY 2022-23 Proposed Amendments	FY 2022-23 Proposed Amended Budget
	EXPENSES Total	1,213,132	742,097	742,097	-	-	742,097
Fund REVENUE	Total: 2112 - Fed CMAQ Congest Mgmt Air Qual	1,213,132	742,097	742,097	-	-	742,097
Fund EXPENSE	Total: 2112 - Fed CMAQ Congest Mgmt Air Qual	1,213,132	742,097	742,097	-	-	742,097
Fund Tot	tal: 2112 - Fed CMAQ Congest Mgmt Air Qual	-	-	-	-	-	-
Fund: 2120 - State Gas Tax							
REVENUES							
Department: 45 - Public Works	s						
Program: 4750 - Public Wor	rks - Streets Maint.						
3355.001	State gas Tax Section 2106	114,154	22,872	22,872	8,480	-	22,872
3355.002	State gas Tax Section 2107	237,327	60,500	60,500	15,126	-	60,500
3355.003	State gas Tax Section 2107.5	6,000	2,000	2,000	2,000	-	2,000
3355.005	State gas Tax Section 2105	189,271	39,000	39,000	10,920	-	39,000
3355.006	State gas Tax RSTP Regional Surface Trans Prog	187,312	150,000	150,000	-	-	150,000
3355.007	State gas Tax Section 2103	257,681	59,500	59,500	19,616	-	59,500
3355.008	State gas Tax Section 2032	453,973	137,500	137,500	38,808	-	137,500
3410.150	Administrative Services Late Fees	198	-	-	-	-	-
3610.100	Interest Revenue Investments	138	200	200	-	-	200
3901.100	Refunds and Reimbursements Miscellaneous	53,465	10,000	10,000	10,842	85,00	95,000
3902.100	Miscellaneous Revenue General	-	913,716	913,716	-	-	913,716
3910.010	Transfers In From General Fund	235,177	-	144,000	-	(75,00	0) 69,000
3910.090	Transfers In From Camp Fire Recovery	152,758	41,539	41,539	-	15,50	57,039
3910.110	Transfers In From Local Transportation Fund	7,034	62,682	62,682	-	-	62,682
3910.112	Transfers In From Federal CMAQ Fund	32,203	27,203	27,203	-	-	27,203
3910.130	Transfers In From State Water Board Prop 1	67,949	76,916	76,916	-	-	76,916
3910.132	Transfers In From HSIP Grant	8,927	36,764	36,764	-	-	36,764
3910.133	Transfers In From ATP Grant	43,434	33,561	33,561	-	-	33,561
3910.136	Transfers In From FEMA Grants FHMG	15,695	-	-	-	-	-
3910.137	Transfers In EDA Grant	52,251	30,532	30,532	-	-	30,532
3910.138	Transfers In From USDA Fund	250,000	-	156,000	-	-	156,000
3910.139	Transfers In From FHWA Funds	61,245	63,479	63,479	-	-	63,479
3910.301	Transfers In CDBG - DR	24,666	19,911	204,381			204,381
Program	m Total: 4750 - Public Works - Streets Maint.	2,450,856	1,787,875	2,272,345	105,792	25,50	2,297,845
	Department Total: 45 - Public Works	2,450,856	1,787,875	2,272,345	105,792	25,50	2,297,845
	REVENUES Total	2,450,856	1,787,875	2,272,345	105,792	25,50	2,297,845

EXPENSES

Department: 45 - Public Works

Program: 4750 - Public Works - Streets Maint.

Account Number	Account Description	FY 2021-22 Unaudited Actual Amount	FY 2022-23 Adopted Budget	FY 2022-23 Amended Budget	FY 2022-23 Actuals to Date	FY 2022-23 Proposed Amendments	FY 2022-23 Proposed Amended Budget
5101	Salaries - Permanent	563,602	736,400	854,374	351,587	16,800	871,174
5103.101	Differential Pay On Call	23,755	23,500	23,500	12,978	-	23,500
5103.102	Differential Pay Out of Class	556	750	750	328	-	750
5105	Salaries - Overtime/FLSA	8,843	8,450	8,450	12,472	-	8,450
5106.100	Incentives & Admin Leave Administrative Leave	11,927	17,381	22,082	-	-	22,082
5106.200	Incentives & Admin Leave Gym Reimbursement	-	360	360	54	-	360
5107	Car Allowance/Mileage	1,388	1,392	1,392	786	-	1,392
5109.101	Allowances Boot Allowance	3,291	3,420	3,520	4,005	-	3,520
5111	Medicare	8,651	11,448	13,228	5,403	-	13,228
5112.101	GASB 68 - Pension Expense PERS	114,456	143,910	172,624	111,387	-	172,624
5113	Worker's Compensation	96,592	132,203	144,894	65,726	-	144,894
5114.101	Health Insurance Medical	53,933	92,735	109,636	36,626	-	109,636
5114.102	Health Insurance Dental	6,358	-	-	4,140	-	-
5114.103	Health Insurance Vision	589	-	-	363	-	-
5115	Unemployment Compensation	-	-	-	2,525	-	-
5116.101	Life and Disability Insurance Life & Disab.	1,935	8,557	10,166	1,218	-	10,166
5116.102	Life and Disability Insurance Long Term/Short Term Disability	3,779	-	-	2,622	-	-
5119.100	Retiree Costs Medical Insurance	21,367	22,307	22,307	11,128	-	22,307
5201.100	Office Supplies General	281	300	300	596	-	300
5202.100	Operating Supplies General	11,485	4,250	4,250	4,173	4,000	8,250
5203.100	Repairs and Maint Supplies General	94,668	94,000	94,000	77,728	70,000	164,000
5209.101	Auto Fuel Expense Town Vehicles	32,711	27,500	27,500	16,160	-	27,500
5211.135	Utilities Water and Sewer	264	264	264	426	-	264
5211.137	Utilities Electric and Gas	41,467	34,800	34,800	22,273	-	34,800
5213.100	Professional/Contract Services General	23,553	16,500	16,500	4,736	-	16,500
5214.100	Repair and Maint Service General	111,622	94,800	94,800	46,603	-	94,800
5215.100	Rents and Leases Miscellaneous	8,412	8,000	8,000	3,631	-	8,000
5215.131	Rents and Leases Street Maintenance Equipment	69,959	5,000	5,000	17,961	15,500	20,500
5216.100	Communications General Services	5,920	43,034	43,034	3,065	-	43,034
5218.100	Advertising General	123	100	100	163	-	100
5220.100	Employee Development General	5,084	5,000	5,000	4,099	-	5,000
5223.101	Meals and Refreshments Employee Meals-MOU Overtime	585	500	500	210	-	500
5223.105	Meals and Refreshments Emergencies and Meetings	-	-	-	30	-	-
5304	Furniture & Equipment	156,573	20,500	20,500	113,919	-	20,500
5305	Vehicles	307,682	-	300,000	-	-	300,000
5501	Debt Service Payment - Principal	8,376	5,367	5,367	3,757	5,700	11,067

Account Number	r Account Description		FY 2021-22 Unaudited Actual Amount	FY 2022-23 Adopted Budget	FY 2022-23 Amended Budget	FY 2022-23 Actuals to Date	FY 2022-23 Proposed Amendments	FY 2022-23 Proposed Amended Budget
5910.010	Transfers Out To General I	Fund	353,824	225,147	225,147	-	-	225,147
5910.100	Transfers Out To Capital P	rojects	-	-	60,000	-	-	60,000
	Program Total: 4750 - Public Work	s - Streets Maint.	2,153,613	1,787,875	2,332,345	942,877	112,000	2,444,345
	Department Total: 4	45 - Public Works	2,153,613	1,787,875	2,332,345	942,877	112,000	2,444,345
		EXPENSES Total	2,153,613	1,787,875	2,332,345	942,877	112,000	2,444,345
	Fund REVENUE Total: 21	20 - State Gas Tax	2,450,856	1,787,875	2,272,345	105,792	25,500	2,297,845
	Fund EXPENSE Total: 21	20 - State Gas Tax	2,153,613	1,787,875	2,332,345	942,877	112,000	2,444,345
	Fund Total: 2120) - State Gas Tax	297,243	-	(60,000)	(837,085)	(86,500)	(146,500)
REVENUES Department: 00 - N	r Board Prop 1 Grant on Department Activity Non Program Activity							
3340.200	State Funding - Grants CIF	P Funding	1,041,821	883,244	883,244	-	350,000	1,233,244
	Program Total: 0000 - Non		1,041,821	883,244	883,244	-	350,000	1,233,244
	Department Total: 00 - Non Dep	partment Activity	1,041,821	883,244	883,244	-	350,000	1,233,244
		REVENUES Total	1,041,821	883,244	883,244	-	350,000	1,233,244
Program: 0000 -	on Department Activity Non Program Activity							
5910.010	Transfers Out To General I	Fund	361	-	-	-	-	-
5910.030	Transfers Out To Developr	ment Services Fund	14,351	-	-	-	-	-
5910.100	Transfers Out To Capital P	rojects	896,593	303,782	303,782	-	350,000	653,782
5910.105	Transfers Out To Camp Fir	e Recovery Projects	47,499	492,546	492,546	-	-	492,546
5910.120	Transfers Out To State Ga	s Tax Fund	67,949	76,916	76,916	-	-	76,916
5910.160	Transfers Out To BHS Dev	elopment Svcs Fund	15,068	10,000	10,000	-	<u> </u>	10,000
	Program Total: 0000 - Non	Program Activity	1,041,821	883,244	883,244	-	350,000	1,233,244
	Department Total: 00 - Non Dep	partment Activity	1,041,821	883,244	883,244	-	350,000	1,233,244
		EXPENSES Total	1,041,821	883,244	883,244	-	350,000	1,233,244
Fu	nd REVENUE Total: 2130 - State Water	Board Prop 1 Grant	1,041,821	883,244	883,244	-	350,000	1,233,244
Fu	ind EXPENSE Total: 2130 - State Water	Board Prop 1 Grant	1,041,821	883,244	883,244	-	350,000	1,233,244
	Fund Total: 2130 - State Water Bo	oard Prop 1 Grant	-	-	-	-	-	-
REVENUES Department: 00 - N	vay Safety Imp Prog. on Department Activity Non Program Activity							
3310.200	Federal Funding CIP Fundi	ng	35,467	45,764	45,764	-	-	45,764
	Program Total: 0000 - Non	-	35,467	45,764	45,764	-		45,764

Account Number Accou	ınt Description	FY 2021-22 Unaudited Actual Amount	FY 2022-23 Adopted Budget	FY 2022-23 Amended Budget	FY 2022-23 Actuals to Date	FY 2022-23 Proposed Amendments	FY 2022-23 Proposed Amended Budget
Department *	Total: 00 - Non Department Activity	35,467	45,764	45,764	-	_	45,764
	REVENUES Total	35,467	45,764	45,764	-	-	45,764
EXPENSES							
Department: 00 - Non Department Acti	vity						
Program: 0000 - Non Program Activi	ty						
5910.100 Trans	fers Out To Capital Projects	26,540	9,000	9,000	-	-	9,000
5910.120 Trans	fers Out To State Gas Tax Fund	8,927	36,764	36,764	-	-	36,764
Program	Total: 0000 - Non Program Activity	35,467	45,764	45,764	-	-	45,764
Department *	Total: 00 - Non Department Activity	35,467	45,764	45,764	-	-	45,764
	EXPENSES Total	35,467	45,764	45,764	-	-	45,764
Fund REVENUE Total	: 2132 - HSIP Highway Safety Imp Prog.	35,467	45,764	45,764	_	_	45,764
	: 2132 - HSIP Highway Safety Imp Prog.	35,467	45,764	45,764	-	-	45,764
	2 - HSIP Highway Safety Imp Prog.		-	-	-	_	-
Department: 00 - Non Department Activity Program: 0000 - Non Program Activity							
3340.200 State	Funding - Grants CIP Funding	2,962,170	919,578	919,578	-	-	919,578
Program	Total: 0000 - Non Program Activity	2,962,170	919,578	919,578	-	-	919,578
Department 1	Total: 00 - Non Department Activity	2,962,170	919,578	919,578	-	-	919,578
	REVENUES Total	2,962,170	919,578	919,578	-	-	919,578
EXPENSES							
Department: 00 - Non Department Activ	vity						
Program: 0000 - Non Program Activi	ty						
	fers Out To Capital Projects	2,918,736	886,017	886,017	-	-	886,017
	fers Out To State Gas Tax Fund	43,434	33,561	33,561	-	-	33,561
	Total: 0000 - Non Program Activity	2,962,170	919,578	919,578	-	-	919,578
Department 1	Total: 00 - Non Department Activity	2,962,170	919,578	919,578	-	-	919,578
	EXPENSES Total	2,962,170	919,578	919,578	-	-	919,578
Fund REVENUE Total	al: 2133 - Active Transportation Program	2,962,170	919,578	919,578	-	-	919,578
Fund EXPENSE Total	al: 2133 - Active Transportation Program	2,962,170	919,578	919,578	-	-	919,578
Fund Total: 21	33 - Active Transportation Program	-	-	-	-	-	-

Fund: 2135 - FEMA Reimb Fund SAFER

REVENUES

Department: 00 - Non Department Activity
Program: 0000 - Non Program Activity

Side Revenue Ceter Refunds and Rembursements Side	FY 2022-23 Proposed Amended Budget	FY 2022-23 Proposed Amendments	FY 2022-23 Actuals to Date	FY 2022-23 Amended Budget	FY 2022-23 Adopted Budget	FY 2021-22 Unaudited Actual Amount	t Number Account Description	Account I
September Sept							Fodoral Povonuo - Other Pefunds and	
Program Total: 0000 - Non Program Activity 805,720	-	-	183,960	-	-	805,372	Reimbursements	
Department Total: 00 - Non Department Activity 805,720		-	-	-	-	348		3610.100
Department:	-	-	183,960	-	-	805,720	Program Total: 0000 - Non Program Activity	
Department: 00 - Non Department Activity Program: 0000 - Non Program Activity S910.010 Transfers Out To General Fund 805.372	-	-	183,960	-	-	805,720	Department Total: 00 - Non Department Activity	
Department: 00 - Non Department Activity Program: 0000 - Non Program Activity S910.010 Transfers Out To General Fund 805,372 - - - -	-	-	183,960	-	-	805,720	REVENUES Total	
Program: 0000 - Non Program Activity S910.010 Transfers Out To General Fund 805,372								EXPENSES
Spin_010 Transfers Out To General Fund 805,372 -							00 - Non Department Activity	Department:
Program Total: 0000 - Non Program Activity 805,372 - - -							0000 - Non Program Activity	Program: 0
Department Total: 00 - Non Department Activity	-			-	-	805,372	Transfers Out To General Fund	5910.010
EXPENSES Total 805,372 - - - -	-	-	-	-	-	805,372	Program Total: 0000 - Non Program Activity	
Fund REVENUE Total: 2135 - FEMA Reimb Fund SAFER 805,720 183,960 - Fund EXPENSE Total: 2135 - FEMA Reimb Fund SAFER 805,372	-	-	-	-	-	805,372	Department Total: 00 - Non Department Activity	
Fund EXPENSE Total: 2135 - FEMA Reimb Fund SAFER 805,372 183,960 - Fund: 2136 - FEMA Grants FHMG REVENUES Department: 00 - Non Department Activity Program: 0000 - Non Program Activity 3310.099 Federal Funding Federal Grants 358,251 4,639,685 4,639,685 511,314 Program Total: 000 - Non Program Activity 358,251 4,639,685 4,639,685 511,314 Program Total: 00 - Non Department Activity 358,251 4,639,685 4,639,685 511,314 Program: 0000 - Non Program Activity 358,251 4,639,685 4,639,685 511,314 Program: 0000 - Non Department Activity 8000 - Non Program Activity 9000 - Non Program Activity 90000 - Non Program Activ	-	-	-	-	-	805,372	EXPENSES Total	
Fund Total: 2135 - FEMA Reimb Fund SAFER 348 - 183,960 - Fund: 2136 - FEMA Grants FHMG REVENUES Department: 00 - Non Department Activity Program: 0000 - Non Program Activity 3310.099 Federal Funding Federal Grants 358,251 4,639,685 4,639,685 511,314 - Program Total: 000 - Non Department Activity 358,251 4,639,685 4,639,685 511,314 - REVENUES Total 358,251 4,639,685 4,639,685 511,314 - EXPENSES Department: 00 - Non Department Activity Program: 0000 - Non Program Activity Program: 0000 - Non Program Activity Figure 100 - Non Department Activity Program: 0000 - Non Program Activity Figure 2000 - Transfers Out To Camp Fire 2018 Recovery 76,749 376,188 376,188 Spi0.105 Transfers Out To Camp Fire Recovery Projects 265,741 4,263,497 4,263,497 511,314 - Spi0.120 Transfers Out To State Gas Tax Fund 15,695 Spi0.160 Transfers Out To BHS Development Svs Fund 67 Program Total: 0000 - Non Program Activity 358,251 4,639,685 4,639,685 511,314 - Department Total: 00 - Non Program Activity 358,251 4,639,685 4,639,685 511,314 -	-	-	183,960	-	-	805,720	Fund REVENUE Total: 2135 - FEMA Reimb Fund SAFER	
Fund: 2136 - FEMA Grants FHMG REVENUES Department: 00 - Non Department Activity Program: 0000 - Non Program Activity 3310.099 Federal Funding Federal Grants 358,251 4,639,685 4,639,685 511,314 Program Total: 0000 - Non Program Activity 358,251 4,639,685 4,639,685 511,314 Department Total: 00 - Non Department Activity 358,251 4,639,685 4,639,685 511,314 - REVENUES Total 358,251 4,639,685 4,639,685 511,314	-	-	-	-	-	805,372	Fund EXPENSE Total: 2135 - FEMA Reimb Fund SAFER	
Fund: 2136 - FEMA Grants FHMG	-	-	183.960	-	-	348	Fund Total: 2135 - FEMA Reimb Fund SAFER	
Program Total: 0000 - Non Program Activity 358,251 4,639,685 4,639,685 511,314								•
Department Total: 00 - Non Department Activity 358,251 4,639,685 4,639,685 511,314 -	4,639,685	-	511,314	4,639,685	4,639,685	358,251	99 Federal Funding Federal Grants	3310.099
REVENUES Total 358,251 4,639,685 4,639,685 511,314	4,639,685	-	511,314	4,639,685	4,639,685	358,251	Program Total: 0000 - Non Program Activity	
Department: 00 - Non Department Activity	4,639,685	-	511,314	4,639,685	4,639,685	358,251	Department Total: 00 - Non Department Activity	
Department: 00 - Non Department Activity Program: 0000 - Non Program Activity 5910.090 Transfers Out To Camp Fire 2018 Recovery 76,749 376,188 376,188 - - 5910.105 Transfers Out To Camp Fire Recovery Projects 265,741 4,263,497 4,263,497 511,314 - 5910.120 Transfers Out To State Gas Tax Fund 15,695 - - - - - 5910.160 Transfers Out To BHS Development Svcs Fund 67 - - - - - Program Total: 0000 - Non Program Activity 358,251 4,639,685 4,639,685 511,314 - Department Total: 00 - Non Department Activity 358,251 4,639,685 4,639,685 511,314 -	4,639,685	-	511,314	4,639,685	4,639,685	358,251	REVENUES Total	
Program: 00000 - Non Program Activity 5910.090 Transfers Out To Camp Fire 2018 Recovery 76,749 376,188 376,188 - - - 5910.105 5910.105 Transfers Out To Camp Fire Recovery Projects 265,741 4,263,497 4,263,497 511,314 - <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>EXPENSES</td></t<>								EXPENSES
5910.090 Transfers Out To Camp Fire 2018 Recovery 76,749 376,188 376,188 376,188 - - 5910.105 Transfers Out To Camp Fire Recovery Projects 265,741 4,263,497 4,263,497 511,314 - 5910.120 Transfers Out To State Gas Tax Fund 15,695 - - - - - 5910.160 Transfers Out To BHS Development Svcs Fund 67 - - - - - Program Total: 0000 - Non Program Activity 358,251 4,639,685 4,639,685 511,314 - Department Total: 00 - Non Department Activity 358,251 4,639,685 4,639,685 511,314 -							00 - Non Department Activity	Department:
5910.105 Transfers Out To Camp Fire Recovery Projects 265,741 4,263,497 4,263,497 511,314 - 5910.120 Transfers Out To State Gas Tax Fund 15,695 - - - - - 5910.160 Transfers Out To BHS Development Svcs Fund 67 - - - - - Program Total: 0000 - Non Program Activity 358,251 4,639,685 4,639,685 511,314 - Department Total: 00 - Non Department Activity 358,251 4,639,685 4,639,685 511,314 -							0000 - Non Program Activity	Program: 0
5910.120 Transfers Out To State Gas Tax Fund 15,695 -	376,188	-	-	376,188	376,188	76,749	Transfers Out To Camp Fire 2018 Recovery	5910.090
5910.160 Transfers Out To BHS Development Svcs Fund 67 - <t< td=""><td>4,263,497</td><td>-</td><td>511,314</td><td>4,263,497</td><td>4,263,497</td><td>265,741</td><td>Transfers Out To Camp Fire Recovery Projects</td><td>5910.105</td></t<>	4,263,497	-	511,314	4,263,497	4,263,497	265,741	Transfers Out To Camp Fire Recovery Projects	5910.105
Program Total: 0000 - Non Program Activity 358,251 4,639,685 4,639,685 511,314 Department Total: 00 - Non Department Activity 358,251 4,639,685 4,639,685 511,314	-	-	-	-	-	15,695	20 Transfers Out To State Gas Tax Fund	5910.120
Department Total: 00 - Non Department Activity 358,251 4,639,685 4,639,685 511,314 -	-	-	-	-	-	67	Transfers Out To BHS Development Svcs Fund	5910.160
the state of the s	4,639,685	-	511,314	4,639,685	4,639,685	358,251	Program Total: 0000 - Non Program Activity	
EXPENSES Total 358,251 4,639,685 4,639,685 511,314 -	4,639,685	-	511,314	4,639,685	4,639,685	358,251	Department Total: 00 - Non Department Activity	
	4,639,685	-	511,314	4,639,685	4,639,685	358,251	EXPENSES Total	
Fund REVENUE Total: 2136 - FEMA Grants FHMG 358,251 4,639,685 4,639,685 511,314 -	4,639,685	-	511,314	4,639,685	4,639,685	358,251	Fund REVENUE Total: 2136 - FEMA Grants FHMG	
Fund EXPENSE Total: 2136 - FEMA Grants FHMG 358,251 4,639,685 4,639,685 511,314 -	4,639,685	-				358,251	Fund EXPENSE Total: 2136 - FEMA Grants FHMG	
Fund Total: 2136 - FEMA Grants FHMG	-	-	-	-		-	Fund Total: 2136 - FEMA Grants FHMG	

Accou	nt Number	Account Description	FY 2021-22 Unaudited Actual Amount	FY 2022-23 Adopted Budget	FY 2022-23 Amended Budget	FY 2022-23 Actuals to Date	FY 2022-23 Proposed Amendments	Prop	2022-23 posed ed Budget
Fund: 2137 - Ec	onomic Developm	ent Admin (EDA)							
REVENUES		(=23)							
Department:	65 - Emergenc	y Mngmt & Disaster Recov							
Program:	4205 - Disaster								
3310.0		Federal Funding Federal Grants	1,236,964	534,103	534,103	-		-	534,103
		Program Total: 4205 - Disaster Recovery	1,236,964	534,103	534,103	-		-	534,103
	Department 1	Fotal: 65 - Emergency Mngmt & Disaster Recov	1,236,964	534,103	534,103	-		-	534,103
		REVENUES Total	1,236,964	534,103	534,103	-		-	534,103
EXPENSES									
Department:	65 - Emergenc	y Mngmt & Disaster Recov							
Program:	4205 - Disaster	Recovery							
5910.0	090	Transfers Out To Camp Fire 2018 Recovery	128,068	-	-	-		-	-
5910.1	105	Transfers Out To Camp Fire Recovery Projects	1,056,645	503,571	503,571	-		-	503,571
5910.1	120	Transfers Out To State Gas Tax Fund	52,251	30,532	30,532	-		-	30,532
		Program Total: 4205 - Disaster Recovery	1,236,964	534,103	534,103	-		-	534,103
	Department 1	Total: 65 - Emergency Mngmt & Disaster Recov	1,236,964	534,103	534,103	-		-	534,103
		EXPENSES Total	1,236,964	534,103	534,103	-		-	534,103
	Fund REVENUE	Total: 2137 - Economic Development Admin (EDA)	1,236,964	534,103	534,103	-		-	534,103
	Fund EXPENSE	Total: 2137 - Economic Development Admin (EDA)	1,236,964	534,103	534,103	-		-	534,103
	Fund Tota	al: 2137 - Economic Development Admin (EDA)	-	-	-	-		-	-
Fund: 2138 - US REVENUES Department:	OO - Non Depa	rtment Activity							
Program:	0000 - Non Pro	gram Activity							
3310.0	099	Federal Funding Federal Grants	348,900	131,500	321,000	-		-	321,000
		Program Total: 0000 - Non Program Activity	348,900	131,500	321,000	-		-	321,000
	D	epartment Total: 00 - Non Department Activity	348,900	131,500	321,000	-		-	321,000
		REVENUES Total	348,900	131,500	321,000	-		-	321,000
EXPENSES									
Department:	00 - Non Depa								
Program:	0000 - Non Pro	gram Activity							
5910.0		Transfers Out To General Fund	3,148	70,500	104,000	-		-	104,000
5910.0		Transfers Out To Animal Control Fund	46,852	61,000	61,000	-		-	61,000
5910.1	105	Transfers Out To Camp Fire Recovery Projects	48,900	-	-	-		-	-
5910.1	120	Transfers Out To State Gas Tax Fund	250,000	-	156,000	-		-	156,000
		Program Total: 0000 - Non Program Activity	348,900	131,500	321,000	-		-	321,000
	D	epartment Total: 00 - Non Department Activity	348,900	131,500	321,000	-		-	321,000

FY 2021-22

FY 2022-23

FY 2022-23

		Unaudited Actual	FY 2022-23 Adopted Budget	FY 2022-23 Amended Budget	FY 2022-23 Actuals to Date	Proposed	Proposed
Account Number	Account Description	Amount	Adopted budget	Amended budget	Actuals to Date	Amendments	Amended Budget
	EXPENSES Total	348,900	131,500	321,000	-	-	321,000
	Fund REVENUE Total: 2138 - USDA	348,900	131,500	321,000	-	-	321,000
	Fund EXPENSE Total: 2138 - USDA	348,900	131,500	321,000	-	-	321,000
	Fund Total: 2138 - USDA	-	-	-	-	-	-
Fund: 2139 - FHWA - Federal-Aid	d Highway Act						
REVENUES							
Department: 00 - Non Department:	artment Activity						
Program: 0000 - Non Pro	ogram Activity						
3310.200	Federal Funding CIP Funding	1,792,892	8,785,077	8,785,077	-	165,551	8,950,628
	Program Total: 0000 - Non Program Activity	1,792,892	8,785,077	8,785,077	-	165,551	8,950,628
I	Department Total: 00 - Non Department Activity	1,792,892	8,785,077	8,785,077	-	165,551	8,950,628
	REVENUES Total	1,792,892	8,785,077	8,785,077	-	165,551	8,950,628
EXPENSES							
	artment Activity						
Program: 0000 - Non Pro	,						
5910.105	Transfers Out To Camp Fire Recovery Projects	1,396,268	8,721,598	8,721,598	-	165,551	8,887,149
5910.120	Transfers Out To State Gas Tax Fund	61,245	63,479	63,479	-	-	63,479
	Program Total: 0000 - Non Program Activity	1,457,512	8,785,077	8,785,077	-	165,551	8,950,628
	Department Total: 00 - Non Department Activity	1,457,512	8,785,077	8,785,077	-	165,551	8,950,628
	EXPENSES Total	1,457,512	8,785,077	8,785,077	-	165,551	8,950,628
Fund REVEN	NUE Total: 2139 - FHWA - Federal-Aid Highway Act	1,792,892	8,785,077	8,785,077	-	165,551	8,950,628
Fund EXPEN	NSE Total: 2139 - FHWA - Federal-Aid Highway Act	1,457,512	8,785,077	8,785,077	-	165,551	8,950,628
Fund	d Total: 2139 - FHWA - Federal-Aid Highway Act	335,380	-	-	-	-	-
Fund: 2160 - Business & Housing	g Services						
REVENUES							
Department: 55 - Business	& Housing Services						
Program: 4800 - Develop	pment Services						
3610.100	Interest Revenue Investments	107	-	-	-	-	=
3902.100	Miscellaneous Revenue General	225	-	-	150	-	-
3910.130	Transfers In From State Water Board Prop 1	15,068	10,000	10,000	-	-	10,000
3910.136	Transfers In From FEMA Grants FHMG	67	-	-	-	-	-
3910.161	Transfers In From BHS HUD Revolving Loan Fund	1,257	-	-	-	-	-
3910.162	Transfers In From BHS Home Loan Repay Fund	19,009	35,000	35,000	-	-	35,000
3910.163	Transfers In From BHS Cal Home Loan Fund	33,195	22,500	22,500	-	-	22,500
3910.297	Transfers In Grants Miscellaneous State	29,313	-	-	-	-	-
3910.301	Transfers In CDBG - DR	1,646	60,000	60,000	-	-	60,000

Account Num	ber Account Description	FY 2021-22 Unaudited Actual Amount	FY 2022-23 Adopted Budget	FY 2022-23 Amended Budget	FY 2022-23 Actuals to Date	FY 2022-23 Proposed Amendments	FY 2022-23 Proposed Amended Budget
3910.420	Transfers In From 2020 CalHome DA Grant	349,588	358,390	358,390	-	20,000	378,390
	Program Total: 4800 - Development Services	449,473	485,890	485,890	150	20,000	505,890
	Department Total: 55 - Business & Housing Services	449,473	485,890	485,890	150	20,000	505,890
	REVENUES Total	449,473	485,890	485,890	150	20,000	505,890
EXPENSES							
Department: 55 -	Business & Housing Services						
Program: 4800	- Development Services						
5101	Salaries - Permanent	255,739	270,688	270,688	145,846	-	270,688
5105	Salaries - Overtime/FLSA	389	-	-	-	-	-
5106.100	Incentives & Admin Leave Administrative Leave	e 5,351	5,575	5,575	-	-	5,575
5106.200	Incentives & Admin Leave Gym Reimbursemen	rt -	-	-	120	-	-
5107	Car Allowance/Mileage	116	120	120	44	-	120
5111	Medicare	3,658	3,982	3,982	2,022	-	3,982
5112.101	GASB 68 - Pension Expense PERS	51,896	53,216	53,216	41,998	-	53,216
5113	Worker's Compensation	1,741	1,408	1,408	700	-	1,408
5114.101	Health Insurance Medical	33,230	43,422	43,422	21,617	-	43,422
5114.102	Health Insurance Dental	4,517	-	-	2,732	-	-
5114.103	Health Insurance Vision	323	-	-	189	-	-
5115	Unemployment Compensation	-	-	-	954	-	-
5116.101	Life and Disability Insurance Life & Disab.	805	3,070	3,070	468	-	3,070
5116.102	Life and Disability Insurance Long Term/Short Disability	Term 424	-	-	353	-	-
5199.130	Other Payroll Expenses Interfund Payroll Trans	efers (29,369)	(82,880)	(82,880)	-	-	(82,880)
5201.100	Office Supplies General	256	1,000	1,000	186	-	1,000
5202.100	Operating Supplies General	312	1,500	1,500	116	-	1,500
5209.105	Auto Fuel Expense Employee Personal Vehicle	Use 71	500	500	-	-	500
5210.100	Postage General	332	400	400	126	-	400
5213.100	Professional/Contract Services General	68,937	30,000	30,000	24,069	20,000	50,000
5214.100	Repair and Maint Service General	1,500	1,500	1,500	-	-	1,500
5218.100	Advertising General	114	-	-	90	-	-
5219.100	Printing General	48	300	300	(5)	-	300
5910.010	Transfers Out To General Fund	76,274	73,096	73,096	-	-	73,096
	Program Total: 4800 - Development Services	476,664	406,897	406,897	241,624	20,000	426,897
	Department Total: 55 - Business & Housing Services	476,664	406,897	406,897	241,624	20,000	426,897
	EXPENSES Total	476,664	406,897	406,897	241,624	20,000	426,897
	Fund REVENUE Total: 2160 - Business & Housing Services	449,473	485,890	485,890	150	20,000	505,890
	Fund EXPENSE Total: 2160 - Business & Housing Services	476,664	406,897	406,897	241,624	20,000	426,897

Accour	nt Number Account	Description	FY 2021-22 Unaudited Actual Amount	FY 2022-23 Adopted Budget	FY 2022-23 Amended Budget	FY 2022-23 Actuals to Date	FY 2022-23 Proposed Amendments	FY 2022-23 Proposed Amended Budget
	Fund Total: 21	60 - Business & Housing Services	(27,191)	78,993	78,993	(241,474)	_	78,993
Fund: 2161 - BH	S HUD Loan Fund		, ,	•	·	, , ,		
REVENUES								
Department:	55 - Business & Housing Ser	vices						
Program:	0000 - Non Program Activity							
3610.1	.00 Interest	Revenue Investments	90	-	-	-	-	-
3905.0	001 BHS Loa	n Payments Program Income	4,590	-	-	52,362	-	-
	Program To	otal: 0000 - Non Program Activity	4,680	-	-	52,362	-	-
	Department Total:	55 - Business & Housing Services	4,680	-	-	52,362	-	-
		REVENUES Total	4,680	-	-	52,362	-	-
EXPENSES								
Department:	55 - Business & Housing Ser	vices						
Program:	0000 - Non Program Activity							
5213.1	.00 Professio	onal/Contract Services General	14,338	-	-	120	-	-
5910.1	.00 Transfer	s Out To Capital Projects	-	126,957	126,957	-	-	126,957
5910.1	.60 Transfer	s Out To BHS Development Svcs Fund	1,257	-	-	-	-	-
	Program To	otal: 0000 - Non Program Activity	15,595	126,957	126,957	120	-	126,957
	Department Total:	55 - Business & Housing Services	15,595	126,957	126,957	120	-	126,957
		EXPENSES Total	15,595	126,957	126,957	120	-	126,957
	Fund REVENUE	Total: 2161 - BHS HUD Loan Fund	4,680	-	-	52,362	-	-
	Fund EXPENSE	Total: 2161 - BHS HUD Loan Fund	15,595	126,957	126,957	120	-	126,957
	Fund T	Total: 2161 - BHS HUD Loan Fund	(10,915)	(126,957)	(126,957)	52,242	-	(126,957)
	S Home Loan Fund							
REVENUES								
Department:	55 - Business & Housing Ser	vices						
Program:	0000 - Non Program Activity							
3610.1		Revenue Investments	1,489	-	-	-	-	-
3905.0	001 BHS Loa	n Payments Program Income	232,235	40,000	40,000	33,751	-	40,000
3905.0		n Payments Recapture Income		40,000	40,000	-	-	40,000
	Program To	otal: 0000 - Non Program Activity	233,724	80,000	80,000	33,751	-	80,000
	Department Total:	55 - Business & Housing Services	233,724	80,000	80,000	33,751	-	80,000
EXPENSES		REVENUES Total	233,724	80,000	80,000	33,751	-	80,000
Department:	55 - Business & Housing Ser	vices						
Program:	0000 - Non Program Activity	TICCS						
5910.1		s Out To BHS Development Svcs Fund	19,009	35,000	35,000	_	_	35,000
3910.1		otal: 0000 - Non Program Activity	19,009	35,000	35,000	-	-	35,000
	Fiogram 10	Tall 0000 - Holl Flogram Activity	19,009	35,000	35,000	-	-	33,000

		5	FY 2021-22 Unaudited Actual Amount	FY 2022-23 Adopted Budget	FY 2022-23 Amended Budget	FY 2022-23 Actuals to Date	FY 2022-23 Proposed Amendments	FY 2022-23 Proposed Amended Budget
		Description	Amount				Amendments	Amended budget
Program:	4802 - Rebuild with Held Fur							
5290.2		ograms BHS Loans	(32,302)	40,000	40,000	-		- 40,000
		l: 4802 - Rebuild with Held Funds	(32,302)	40,000	40,000	-		- 40,000
Program:	4808 - First Time Home Buye							
5290.2		ograms BHS Loans	80,000	40,000	40,000	126,850		- 40,000
		- First Time Home Buyer Program	80,000	40,000	40,000	126,850		- 40,000
	Department Total:	55 - Business & Housing Services	66,707	115,000	115,000	126,850		- 115,000
		EXPENSES Total	66,707	115,000	115,000	126,850		- 115,000
	Fund REVENUE	Total: 2162 - BHS Home Loan Fund	233,724	80,000	80,000	33,751		- 80,000
	Fund EXPENSE	Total: 2162 - BHS Home Loan Fund	66,707	115,000	115,000	126,850		- 115,000
	Fund To	otal: 2162 - BHS Home Loan Fund	167,017	(35,000)	(35,000)	(93,099)		- (35,000)
Fund: 2163 - BHS	S CAL-HOME Loan Fund							
REVENUES								
Department:	55 - Business & Housing Ser	vices						
Program:	0000 - Non Program Activity							
3610.1	00 Interest	Revenue Investments	768	-	-	-		
3905.0	01 BHS Loa	an Payments Program Income	198,257	50,000	50,000	52,230		- 50,000
	Program To	otal: 0000 - Non Program Activity	199,025	50,000	50,000	52,230		- 50,000
	Department Total:	55 - Business & Housing Services	199,025	50,000	50,000	52,230		- 50,000
		REVENUES Total	199,025	50,000	50,000	52,230		- 50,000
EXPENSES								
Department:	55 - Business & Housing Ser	vices						
Program:	0000 - Non Program Activity							
5910.1	60 Transfe	rs Out To BHS Development Svcs Fund	33,195	22,500	22,500	-		- 22,500
	Program To	otal: 0000 - Non Program Activity	33,195	22,500	22,500	-		- 22,500
Program:	4805 - Housing Rehab							
5290.2	90 Loan Pr	ograms BHS Loans	158,232	222,500	222,500	5,298		- 222,500
	Prog	ram Total: 4805 - Housing Rehab	158,232	222,500	222,500	5,298		- 222,500
Program:	4808 - First Time Home Buye	r Program						
5290.2	90 Loan Pr	ograms BHS Loans	80,000	-	-			
	Program Total: 4808	- First Time Home Buyer Program	80,000	-	-	-		-
	Department Total:	55 - Business & Housing Services	271,427	245,000	245,000	5,298		- 245,000
		EXPENSES Total	271,427	245,000	245,000	5,298		- 245,000
	Fund REVENUE To	tal: 2163 - BHS CAL-HOME Loan Fund	199,025	50,000	50,000	52,230		- 50,000
	Fund EXPENSE To	tal: 2163 - BHS CAL-HOME Loan Fund	271,427	245,000	245,000	5,298		- 245,000
	Fund Total:	2163 - BHS CAL-HOME Loan Fund	(72,402)	(195,000)	(195,000)	46,932		- (195,000)
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Fund: 2204 - State SLESF Grant

Accour	nt Number Account De	escription	FY 2021-22 Unaudited Actual Amount	FY 2022-23 Adopted Budget	FY 2022-23 Amended Budget	FY 2022-23 Actuals to Date	FY 2022-23 Proposed Amendments	FY 2022-23 Proposed Amended Budget
REVENUES								
Department:	30 - Police							
Program:	0000 - Non Program Activity							
3340.3	State Fund	ing - Grants Police Grants	161,301	170,000	170,000	116,923		170,000
3610.1	.00 Interest Re	evenue Investments	17	-	-	-		-
	Program Tota	l: 0000 - Non Program Activity	161,317	170,000	170,000	116,923		170,000
		Department Total: 30 - Police	161,317	170,000	170,000	116,923		170,000
		REVENUES Total	161,317	170,000	170,000	116,923		170,000
EXPENSES								
Department:	30 - Police							
Program:	4520 - Police Operations							
5199.1	.30 Other Payro	oll Expenses Interfund Payroll Transfers	86,985	93,478	93,478	-		93,478
5501	Debt Service	ce Payment - Principal	24,064	-	-	(6,016)		-
	Program 1	Total: 4520 - Police Operations	111,049	93,478	93,478	(6,016)		93,478
Program:	4530 - Public Safety Communic	ations						
5199.1	.30 Other Payro	oll Expenses Interfund Payroll Transfers	61,358	66,785	66,785	-		66,785
	Program Total: 4530 -	Public Safety Communications	61,358	66,785	66,785	-		66,785
		Department Total: 30 - Police	172,407	160,263	160,263	(6,016)		160,263
		EXPENSES Total	172,407	160,263	160,263	(6,016)	-	160,263
	Fund REVENUE	Total: 2204 - State SLESF Grant	161,317	170,000	170,000	116,923		170,000
	Fund EXPENSE	Total: 2204 - State SLESF Grant	172,407	160,263	160,263	(6,016)		160,263
	Fund T	otal: 2204 - State SLESF Grant	(11,090)	9,737	9,737	122,939		9,737
Fund: 2297 - Gra	ants Miscellaneous State							
REVENUES								
Department:	00 - Non Department Activity							
Program:	0000 - Non Program Activity							
3340.4	State Fund	ing - Grants LEAP Grant	112,764	-	-	23,442		-
		l: 0000 - Non Program Activity	112,764	-	-	23,442		-
	Department Total	: 00 - Non Department Activity	112,764	-	-	23,442	•	-
		REVENUES Total	112,764	-	-	23,442		-
EXPENSES								
Department:	00 - Non Department Activity							
Program:	0000 - Non Program Activity							
5910.0		Out To Development Services Fund	83,451	-	-	23,442	•	-
5910.1		Out To BHS Development Svcs Fund	29,313	-	-	-		-
	Program Tota	l: 0000 - Non Program Activity	112,764	-	-	23,442		-

Accoun	nt Number Account Description	FY 2021-22 Unaudited Actual Amount	FY 2022-23 Adopted Budget	FY 2022-23 Amended Budget	FY 2022-23 Actuals to Date	FY 2022-23 Proposed Amendments	FY 2022-23 Proposed Amended Budget
Accoun	it Number Account Description						
	Department Total: 00 - Non Department Activity	112,764	-	-	23,442	-	-
	EXPENSES Total	112,764	-	-	23,442	-	-
	Fund REVENUE Total: 2297 - Grants Miscellaneous State	112,764	-	-	23,442	-	-
	Fund EXPENSE Total: 2297 - Grants Miscellaneous State	112,764	-	-	23,442	-	-
	Fund Total: 2297 - Grants Miscellaneous State	-	-	-	-	-	-
Fund: 2298 - Gra	ants Miscellaneous Federal						
REVENUES							
Department:	00 - Non Department Activity						
Program:	0000 - Non Program Activity						
3310.0	999 Federal Funding Federal Grants		615,000	615,000	<u>-</u> _		615,000
	Program Total: 0000 - Non Program Activity	-	615,000	615,000	-	-	615,000
	Department Total: 00 - Non Department Activity	-	615,000	615,000	-	-	615,000
	REVENUES Total	-	615,000	615,000	-	-	615,000
EXPENSES							
Department:	00 - Non Department Activity						
Program:	0000 - Non Program Activity						
5910.1	105 Transfers Out To Camp Fire Recovery Projects	-	615,000	615,000	-	-	615,000
	Program Total: 0000 - Non Program Activity	-	615,000	615,000	-	-	615,000
	Department Total: 00 - Non Department Activity	-	615,000	615,000	-	-	615,000
	EXPENSES Total	-	615,000	615,000	-	-	615,000
	Fund REVENUE Total: 2298 - Grants Miscellaneous Federal		615,000	615,000	-	-	615,000
	Fund EXPENSE Total: 2298 - Grants Miscellaneous Federal	-	615,000	615,000	-	-	615,000
	Fund Total: 2298 - Grants Miscellaneous Federal	-	-	-	-	-	-
Fund: 2299 - Gra	ants Miscellaneous One Time						
REVENUES							
Department:	00 - Non Department Activity						
Program:	0000 - Non Program Activity						
3345.2	200 State Revenues - Other Miscellaneous	-	134,816	134,816	-	-	134,816
3610.1	100 Interest Revenue Investments	22	-	-	-	-	-
3650.1	.00 Donations Private Sources	73,975	-	-	-	-	-
	Program Total: 0000 - Non Program Activity	73,997	134,816	134,816	-	-	134,816
	Department Total: 00 - Non Department Activity	73,997	134,816	134,816	-	-	134,816
	REVENUES Total	73,997	134,816	134,816	-	-	134,816
EXPENSES		,	,	,			,
Department:	00 - Non Department Activity						
Program:	0000 - Non Program Activity						
5910.1		73,975	134,816	134,816	-	-	134,816
	, , ,	, -	,	,			,

Accou	nt Number	Account Description	FY 2021-22 Unaudited Actual Amount	FY 2022-23 Adopted Budget	FY 2022-23 Amended Budget	FY 2022-23 Actuals to Date	FY 2022-23 Proposed Amendments	FY 2022-23 Proposed Amended Budget
	Pr	ogram Total: 0000 - Non Program Activity	73,975	134,816	134,816	-	-	134,816
	Depart	tment Total: 00 - Non Department Activity	73,975	134,816	134,816	-	-	134,816
		EXPENSES Total	73,975	134,816	134,816	-	-	•
	Fund REVENUE	Total: 2299 - Grants Miscellaneous One Time	73,997	134,816	134,816	_	_	134,816
	Fund EXPENSE	Total: 2299 - Grants Miscellaneous One Time	73,975	134,816	134,816			
		tal: 2299 - Grants Miscellaneous One Time	22	134,610	134,810	<u>-</u>		·
Fund: 2301 - CD		tal. 2299 - Grants Phacenaneous One Time	22	-	-	-	_	-
REVENUES	700-DK							
Department:	55 - Business & Ho	ucina Services						
Program:	4812 - Multi-Family	-						
3310.0	-		122,602	260,000	260,000			260,000
3310.0		Federal Funding Federal Grants Program Total: 4812 - Multi-Family Homes	122,602	260,000	260,000	-	-	•
		nt Total: 55 - Business & Housing Services	122,602	260,000	260,000			,
Department:		gmt & Disaster Recov	122,602	260,000	260,000	-	-	260,000
Program:	4205 - Disaster Reco							
_		,		F 207 002	F 207 002		21.4	40 5 220 442
3310.0	J99	Federal Funding Federal Grants Program Total: 4205 - Disaster Recovery		5,207,993	5,207,993	-	21,4	
	Danastos ant Tatal			5,207,993	5,207,993	-	21,4	
	Department Total	: 65 - Emergency Mngmt & Disaster Recov REVENUES Total	- 422.602	5,207,993	5,207,993	-	21,4	
EVDENCEC		REVENUES TOTAL	122,602	5,467,993	5,467,993	-	21,4	49 5,489,442
EXPENSES	EE Business 9 He	using Camilan						
Department:	55 - Business & Hou							
Program:	4812 - Multi-Family							
5199.1	130	Other Payroll Expenses Interfund Payroll Transfers	29,369	200,000	200,000	-	-	200,000
5213.1	100	Professional/Contract Services General	91,255	-	-	71,594	-	-
5218.1	100	Advertising General	354	-	-	357	-	-
5910.1	160	Transfers Out To BHS Development Svcs Fund	1,624	60,000	60,000	-	-	60,000
	F	Program Total: 4812 - Multi-Family Homes	122,602	260,000	260,000	71,952	-	260,000
	Departme	nt Total: 55 - Business & Housing Services	122,602	260,000	260,000	71,952	-	260,000
Department:	65 - Emergency Mn	gmt & Disaster Recov						
Program:	4205 - Disaster Reco	overy						
5213.1	100	Professional/Contract Services General	4,874	-	-	-	-	-
5910.0	090	Transfers Out To Camp Fire 2018 Recovery	115,926	309,511	309,511	-	-	309,511
5910.1	100	Transfers Out To Capital Projects	106,221	-	-	-	-	-
5910.1	105	Transfers Out To Camp Fire Recovery Projects	376,417	4,027,284	4,027,284	-	21,4	4,048,733
5910.1	120	Transfers Out To State Gas Tax Fund	24,666	19,911	204,381	-	-	204,381
5910.1	160	Transfers Out To BHS Development Svcs Fund	22	-	-	-	-	-
		Program Total: 4205 - Disaster Recovery	628,126	4,356,706	4,541,176	-	21,4	49 4,562,625

FY 2021-22

FY 2022-23

FY 2022-23

Accour	nt Number Account Description	Unaudited Actual Amount	FY 2022-23 Adopted Budget	FY 2022-23 Amended Budget	FY 2022-23 Actuals to Date	Proposed Amendments	Proposed Amended Budget
	Department Total: 65 - Emergency Mngmt & Disaster Recov	628,126	4,356,706	4,541,176	-	21,449	4,562,625
	EXPENSES Total	750,728	4,616,706	4,801,176	71,952	21,449	4,822,625
	Fund REVENUE Total: 2301 - CDBG-DR	122,602	5,467,993	5,467,993	-	21,449	5,489,442
	Fund EXPENSE Total: 2301 - CDBG-DR	750,728	4,616,706	4,801,176	71,952	21,449	4,822,625
	Fund Total: 2301 - CDBG-DR	(628,126)	851,287	666,817	(71,952)	-	666,817
	S 2020 CalHome DA Grant						
REVENUES							
Department:	55 - Business & Housing Services						
Program:	0000 - Non Program Activity						
3340.1	00 State Funding - Grants BHS State Reimbursements	2,106,577	2,707,630	2,707,630	-	20,000	2,727,630
	Program Total: 0000 - Non Program Activity	2,106,577	2,707,630	2,707,630	-	20,000	2,727,630
	Department Total: 55 - Business & Housing Services	2,106,577	2,707,630	2,707,630	-	20,000	2,727,630
	REVENUES Total	2,106,577	2,707,630	2,707,630	-	20,000	2,727,630
EXPENSES							
Department:	55 - Business & Housing Services						
Program:	0000 - Non Program Activity						
5910.1	60 Transfers Out To BHS Development Svcs Fund	349,588	-	-		<u> </u>	-
	Program Total: 0000 - Non Program Activity	349,588	-	-	-	-	-
Program:	4805 - Housing Rehab						
5290.2	90 Loan Programs BHS Loans	2,144,797	2,250,000	2,250,000	1,265,898	-	2,250,000
5910.1	60 Transfers Out To BHS Development Svcs Fund		358,390	358,390		20,000	378,390
	Program Total: 4805 - Housing Rehab	2,144,797	2,608,390	2,608,390	1,265,898	20,000	2,628,390
Program:	4808 - First Time Home Buyer Program						
5290.2	90 Loan Programs BHS Loans		-	-	426,491	<u> </u>	-
	Program Total: 4808 - First Time Home Buyer Program		-	-	426,491	-	-
	Department Total: 55 - Business & Housing Services	2,494,385	2,608,390	2,608,390	1,692,389	20,000	2,628,390
	EXPENSES Total	2,494,385	2,608,390	2,608,390	1,692,389	20,000	2,628,390
	Fund REVENUE Total: 2420 - BHS 2020 CalHome DA Grant	2,106,577	2,707,630	2,707,630	-	20,000	2,727,630
	Fund EXPENSE Total: 2420 - BHS 2020 CalHome DA Grant	2,494,385	2,608,390	2,608,390	1,692,389	20,000	2,628,390
	Fund Total: 2420 - BHS 2020 CalHome DA Grant	(387,807)	99,240	99,240	(1,692,389)	-	99,240
Fund: 2510 - Im	pact Fees Road Improvements						
REVENUES							
Department:	45 - Public Works						
Program:	0000 - Non Program Activity						
3405.1	00 Impact Fees Development Impact Fees	13,940	14,000	14,000	7,985	-	14,000
3610.1	00 Interest Revenue Investments	403	1,660	1,660	-	-	1,660

Account Numb	ber	Account Description	FY 2021-22 Unaudited Actual Amount	FY 2022-23 Adopted Budget	FY 2022-23 Amended Budget	FY 2022-23 Actuals to Date	FY 2022-23 Proposed Amendments	FY 2022-23 Proposed Amended Budget
	Pro	gram Total: 0000 - Non Program Activity	14,342	15,660	15,660	7,985		15,660
		Department Total: 45 - Public Works	14,342	15,660	15,660	7,985		15,660
		REVENUES Total	14,342	15,660	15,660	7,985		15,660
						•		
		Total: 2510 - Impact Fees Road Improvements	14,342	15,660	15,660	7,985	-	15,660
Fi		Total: 2510 - Impact Fees Road Improvements						
		2510 - Impact Fees Road Improvements	14,342	15,660	15,660	7,985	-	15,660
•	ees Signal Impro Public Works - Non Program							
3405.100	- Non Program	·	1,204	1,150	1,150	697		1,150
3610.100		Impact Fees Development Impact Fees Interest Revenue Investments	46	1,130	1,130	097		1,130
3010.100	Pro	gram Total: 0000 - Non Program Activity	1,251	1,150	1,150	697		1,150
		Department Total: 45 - Public Works	1,251	1,150	1,150	697	-	
		REVENUES Total	1,251	1,150	1,150	697		1,150
		otal: 2520 - Impact Fees Signal Improvements	1,251	1,150	1,150	697	-	1,150
Fu		otal: 2520 - Impact Fees Signal Improvements						
		2520 - Impact Fees Signal Improvements	1,251	1,150	1,150	697	-	1,150
Fund: 2521 - Signal Ald REVENUES Department: 45 -	ong SR 191 (Clai	rk Rd)						
Program: 0000	- Non Program	Activity						
3610.100		Interest Revenue Investments	4	25	25	-	-	25
	Pro	gram Total: 0000 - Non Program Activity	4	25	25	-	-	25
		Department Total: 45 - Public Works	4	25	25	-	-	25
		REVENUES Total	4	25	25	-	-	25
	Fund REVENUE	Total: 2521 - Signal Along SR 191 (Clark Rd)	4	25	25	-	-	25
	Fund EXPENSE	Total: 2521 - Signal Along SR 191 (Clark Rd)	-					
	Fund Tot	al: 2521 - Signal Along SR 191 (Clark Rd)	4	25	25	-	-	25
•	ees Police Facilit Police - Non Program							
3405.100	rogram	Impact Fees Development Impact Fees	2,176	2,300	2,300	1,261	_	2,300
3610.100		Interest Revenue Investments	2,170	2,300	2,300	1,201		2,300
5010.100	Dro	gram Total: 0000 - Non Program Activity	2,192	2,500	2,500	1,261		2,500
	FIC	gram rount vood mon r rogram Activity	۷,132	2,300	2,300	1,201		2,300

A annumb I	Number Assess	ut Description	FY 2021-22 Unaudited Actual Amount	FY 2022-23 Adopted Budget	FY 2022-23 Amended Budget	FY 2022-23 Actuals to Date	FY 2022-23 Proposed Amendments	FY 2022-23 Proposed Amended Budget
Account I	Number Accou	nt Description	- Timodite				Amenamene	7 Whended Budget
		Department Total: 30 - Police	2,192	2,500	2,500	1,261	-	2,500
		REVENUES Total	2,192	2,500	2,500	1,261	-	2,500
	Fund REVENUE To	otal: 2540 - Impact Fees Police Facilities	2,192	2,500	2,500	1,261	-	2,500
	Fund EXPENSE To	otal: 2540 - Impact Fees Police Facilities						
	Fund Total:	2540 - Impact Fees Police Facilities	2,192	2,500	2,500	1,261	-	2,500
Fund: 2550 - Impa	ct Fees Fire Facilities							
REVENUES								
Department:	35 - Fire							
Program: 0	0000 - Non Program Activi	ty						
3405.100) Impac	t Fees Development Impact Fees	1,897	2,000	2,000	929	-	2,000
3610.100) Intere	est Revenue Investments	24	200	200		-	200
	Program	Total: 0000 - Non Program Activity	1,921	2,200	2,200	929	-	2,200
		Department Total: 35 - Fire	1,921	2,200	2,200	929	-	2,200
		REVENUES Total	1,921	2,200	2,200	929	-	2,200
	Fund REVENUE	Total: 2550 - Impact Fees Fire Facilities	1,921	2,200	2,200	929	-	2,200
	Fund EXPENSE	Total: 2550 - Impact Fees Fire Facilities						
	Fund Tota	l: 2550 - Impact Fees Fire Facilities	1,921	2,200	2,200	929	-	2,200
Fund: 2551 - Impa	ct Fees - Drainage							
REVENUES								
Department:	45 - Public Works							
Program: 0	0000 - Non Program Activi	ty						
3405.100) Impac	t Fees Development Impact Fees	15,374	15,500	15,500	5,349	-	15,500
3610.100) Intere	est Revenue Investments	454	1,500	1,500	-	-	1,500
		Total: 0000 - Non Program Activity	15,828	17,000	17,000	5,349	-	17,000
	D	epartment Total: 45 - Public Works	15,828	17,000	17,000	5,349	-	17,000
		REVENUES Total	15,828	17,000	17,000	5,349	-	17,000
EXPENSES								
	45 - Public Works							
_	0000 - Non Program Activi							
5910.100		fers Out To Capital Projects		-	250,000	-	-	250,000
		Total: 0000 - Non Program Activity		-	250,000	-	-	250,000
	D	epartment Total: 45 - Public Works	-	-	250,000	-	-	250,000
		EXPENSES Total		-	250,000	-	-	250,000
	Fund REVENUE	Total: 2551 - Impact Fees - Drainage	15,828	17,000	17,000	5,349	-	17,000
	Fund EXPENSE	Total: 2551 - Impact Fees - Drainage	-	-	250,000	-	-	250,000
	Fund To	otal: 2551 - Impact Fees - Drainage	15,828	17,000	(233,000)	5,349	-	(233,000)

Account I	Number	Account Description	FY 2021-22 Unaudited Actual Amount	FY 2022-23 Adopted Budget	FY 2022-23 Amended Budget	FY 2022-23 Actuals to Date	FY 2022-23 Proposed Amendments	FY 2022-23 Proposed Amended Budget
Fund: 2700 - SB-2 REVENUES	Building Homes a	nd Jobs Act						
Department:	55 - Business & H	ousing Services						
Program: 4	1800 - Developme	nt Services						
3345.200)	State Revenues - Other Miscellaneous	15,050	-	-	-		
	P	rogram Total: 4800 - Development Services	15,050	-	-	-		
	Departm	ent Total: 55 - Business & Housing Services	15,050	-	-	-		
		REVENUES Total	15,050	-	-	-		
EXPENSES								
Department:	55 - Business & H	ousing Services						
Program: 4	1800 - Developme	nt Services						
5213.100)	Professional/Contract Services General	15,050	-	-	6,959		
	P	rogram Total: 4800 - Development Services	15,050	-	-	6,959		
	Departm	ent Total: 55 - Business & Housing Services	15,050	-	-	6,959		
		EXPENSES Total	15,050	-	-	6,959		
	Fund REVENUE	Total: 2700 - SB-2 Building Homes and Jobs Act	15,050	-	-	-		
	Fund EXPENSE	Total: 2700 - SB-2 Building Homes and Jobs Act	15,050	-	-	6,959		
	Fund Tota	al: 2700 - SB-2 Building Homes and Jobs Act	-	-	-	(6,959)		
Fund: 2924 - RDA	Obligation Retiren	nent Fund				(, ,		
REVENUES								
Department:	60 - RDA							
Program: 4	1975 - Successor R	RDANH Operations						
3110.350)	Property Tax Redevelopment Trust Receipts	28,638	-	-	-		
	Program	Total: 4975 - Successor RDANH Operations	28,638	-	-	-		
		Department Total: 60 - RDA	28,638	-	-	-		
		REVENUES Total	28,638	-	-	-		
EXPENSES								
Department:	60 - RDA							
Program: 4	1975 - Successor R	RDANH Operations						
5910.650)	Transfers Out To Successor Agency RDA NH	28,674	-	-	32,421		
	Program	Total: 4975 - Successor RDANH Operations	28,674	-	-	32,421		
		Department Total: 60 - RDA	28,674	-	-	32,421		
		EXPENSES Total	28,674	-	-	32,421		
	Fund REVENUE	Total: 2924 - RDA Obligation Retirement Fund	28,638	-	-	-		
	Fund EXPENSE	Total: 2924 - RDA Obligation Retirement Fund	28,674	-	-	32,421		
	Fund To	tal: 2924 - RDA Obligation Retirement Fund	(36)	-	-	(32,421)		
Fund: 5900 - Trans		-	(50)			(, :)		

Fund: 5900 - Transit Fund

Accou	nt Number	Account Description	FY 2021-22 Unaudited Actual Amount	FY 2022-23 Adopted Budget	FY 2022-23 Amended Budget	FY 2022-23 Actuals to Date	FY 2022-23 Proposed Amendments	FY 2022-23 Proposed Amended Budget
REVENUES								
Department:	40 - Community De	evelonment						
Program:	4820 - CDD - Transi	·						
3610.		Interest Revenue Investments	24	_	_	_	_	_
3902.:		Miscellaneous Revenue Paratransit Tickets	25	_	_	_	_	_
3902.:		Miscellaneous Revenues BC Transit Tickets	1,366	1,200	1,200	691	_	1,200
3302		ram Total: 4820 - CDD - Transit Operations	1,415	1,200	1,200	691	-	
	_	ment Total: 40 - Community Development	1,415	1,200	1,200	691	-	
		REVENUES Total	1,415	1,200	1,200	691	-	1,200
EXPENSES			_,	_,	-,			=,===
Department:	40 - Community De	evelopment						
Program:	4820 - CDD - Transi	·						
5260		Miscellaneous	1,391	1,200	1,200	594	-	1,200
5910.	110	Transfers Out To Local Transportation Fund	· -	28,720	28,720	-	-	28,720
	Progi	ram Total: 4820 - CDD - Transit Operations	1,391	29,920	29,920	594	-	
	Depart	ment Total: 40 - Community Development	1,391	29,920	29,920	594	-	29,920
		EXPENSES Total	1,391	29,920	29,920	594	-	29,920
		Fund REVENUE Total: 5900 - Transit Fund	1.415	1 200	1 200	CO1		1 200
		Fund EXPENSE Total: 5900 - Transit Fund	1,415	1,200	1,200	691	-	1,200
		Fund Total: 5900 - Transit Fund	1,391	29,920 (28,720)	29,920	594 98	-	23/320
Fund: 7611 - GA	ASB 45 Retiree Medica		24	(28,720)	(28,720)	98	-	(28,720)
REVENUES	43b 43 Retiree Medica	Titust						
Department:	00 - Non Departme	ant Activity						
Program:	0000 - Non Progran	•						
3610.		Interest Revenue Investments	12,336	20,000	20,000	_	_	20,000
3010.		rogram Total: 0000 - Non Program Activity	12,336	20,000	20,000	-	-	
		tment Total: 00 - Non Department Activity	12,336	20,000	20,000	-	-	•
		REVENUES Total	12,336	20,000	20,000	-	-	20,000
EXPENSES			,	.,	,,,,,			.,
Department:	00 - Non Departme	ent Activity						
Program:	0000 - Non Progran							
5610		Trustee/Administrative Fees	572	450	450	-	-	450
5620.	101	Loss on Investment or Sale of Assets GASB 45 Trust	39,135	-	-	-	-	-
	Pi	rogram Total: 0000 - Non Program Activity	39,707	450	450	-	-	450
		tment Total: 00 - Non Department Activity	39,707	450	450	-	-	450
		EXPENSES Total	39,707	450	450	-	-	450
				.50	.50			.50

Accour	nt Number	Account Description	FY 2021-22 Unaudited Actual Amount	FY 2022-23 Adopted Budget	FY 2022-23 Amended Budget	FY 2022-23 Actuals to Date	FY 2022-23 Proposed Amendments	FY 2022-23 Proposed Amended Budget
	Fund REVENUE	Total: 7611 - GASB 45 Retiree Medical Trust	12,336	20,000	20,000	-	_	20,000
	Fund EXPENSE	Total: 7611 - GASB 45 Retiree Medical Trust	39,707	450	450	-	_	·
	Fund To	otal: 7611 - GASB 45 Retiree Medical Trust	(27,371)	19,550	19,550	-	-	
Fund: 7615 - Ass	set Replacement and F	Repairs	(, ,	,	•			
REVENUES								
Department:	30 - Police							
Program:	4520 - Police Operat	tions						
3920.1	.00	Proceeds from Sale of Asset General Fixed Assets	30,595	-	-	247	-	-
		Program Total: 4520 - Police Operations	30,595	-	-	247	-	-
Program:	4540 - Police - Anim		,					
3920.1	.00	Proceeds from Sale of Asset General Fixed Assets	58	-	-	-	-	-
	Proc	gram Total: 4540 - Police - Animal Control	58	-	-	-	_	-
	•	Department Total: 30 - Police	30,654	-	-	247	-	-
Department:	35 - Fire	·	20,00					
Program:	4630 - Fire - Suppres	ssion						
3920.1	.00	Proceeds from Sale of Asset General Fixed Assets	46,395	-	-	-	-	-
		Program Total: 4630 - Fire - Suppression	46,395	-	-	-	-	-
		Department Total: 35 - Fire	46,395	-	-	-	-	-
		REVENUES Total	77,049	-	-	247	-	-
EXPENSES								
Department:	30 - Police							
Program:	4520 - Police Operat	ions						
5304		Furniture & Equipment	2,153	-	-			-
		Program Total: 4520 - Police Operations	2,153	-	-	-	-	-
		Department Total: 30 - Police	2,153	-	-	-	-	-
		EXPENSES Total	2,153	-	-	-	-	-
	Fund REVENUE	Total: 7615 - Asset Replacement and Repairs	77,049	-	-	247	-	-
	Fund EXPENSE	Total: 7615 - Asset Replacement and Repairs	2,153	-	-	-	-	-
	Fund Tot	cal: 7615 - Asset Replacement and Repairs	74,896	-	-	247	-	-
Fund: 7621 - Em	ployee Bank							
REVENUES								
Department:	00 - Non Departme	nt Activity						
Program: 0000 - Non Program Activity								
3610.1		Interest Revenue Investments	1	5	5	-	-	5
3902.1		Miscellaneous Revenue General	957	60	60	62	-	60
	Pr	ogram Total: 0000 - Non Program Activity	958	65	65	62	-	65

Accour	nt Number	Account Description	FY 2021-22 Unaudited Actual Amount	FY 2022-23 Adopted Budget	FY 2022-23 Amended Budget	FY 2022-23 Actuals to Date	FY 2022-23 Proposed Amendments	FY 2022-23 Proposed Amended Budget
Account		·				62		65
	Departn	nent Total: 00 - Non Department Activity REVENUES Total	958 958	65 65	65 65	62 62	-	65 65
		KEVENOES TOTAL	936	05		02		
		nd REVENUE Total: 7621 - Employee Bank	958	65	65	62	-	65
	Fu	and EXPENSE Total: 7621 - Employee Bank						
		Fund Total: 7621 - Employee Bank	958	65	65	62	-	65
	IIP Strong Motion Impl	Prog						
REVENUES Department:	40 - Community Dev	olonmont						
Program:	4730 - Building and O	·						
3401.3		CDD Building S.M.I.P. Fees	1,075	1,900	1,900	1,577	_	1,900
3610.1		Interest Revenue Investments	7	-	-	-	-	-
3010.1		: 4730 - Building and Onsite Inspections	1,082	1,900	1,900	1,577	-	1,900
	_	ent Total: 40 - Community Development	1,082	1,900	1,900	1,577	-	1,900
		REVENUES Total	1,082	1,900	1,900	1,577	-	1,900
	Fund REVENUE	Total: 7624 - SMIP Strong Motion Impl Prog	1,082	1,900	1,900	1,577	-	1,900
	Fund EXPENSE	Total: 7624 - SMIP Strong Motion Impl Prog		,	,,,,,,	γ-		,
	Fund Tota	al: 7624 - SMIP Strong Motion Impl Prog	1,082	1,900	1,900	1,577	-	1,900
Fund: 7626 - Tra	affic Safety Impound Fu	ınd						
REVENUES								
Department:	30 - Police							
Program:	0000 - Non Program A	Activity						
3421.1	111	Police Vehicle Impound Fee	6,911	6,200	6,200	3,375	-	6,200
3610.1		Interest Revenue Investments	33	350	350	-	<u> </u>	350
	Pro	gram Total: 0000 - Non Program Activity	6,944	6,550	6,550	3,375	-	6,550
		Department Total: 30 - Police	6,944	6,550	6,550	3,375	-	6,550
		REVENUES Total	6,944	6,550	6,550	3,375	-	6,550
	Fund REVENUE	Total: 7626 - Traffic Safety Impound Fund	6,944	6,550	6,550	3,375	-	6,550
	Fund EXPENSE	Total: 7626 - Traffic Safety Impound Fund						
		tal: 7626 - Traffic Safety Impound Fund	6,944	6,550	6,550	3,375	-	6,550
	ch Equip Replacement/	Update						
REVENUES	00 Non Donastonous	to the section of the						
Department:	00 - Non Department							
Program:	0000 - Non Program A	•	471 670	465.000	465.000	225 400		465.000
3406.1		Surcharge Tech Equip Replacement/Update gram Total: 0000 - Non Program Activity	471,679 471,679	465,000 465,000	465,000 465,000	235,408	-	465,000 465,000
		nent Total: 000 - Non Department Activity	471,679	465,000	465,000	235,408	-	465,000
	Departi	Total of Hon Department Activity	7/1,0/9	703,000	703,000	233,700		703,000

Account Numb	er Account De	scription	FY 2021-22 Unaudited Actual Amount	FY 2022-23 Adopted Budget	FY 2022-23 Amended Budget	FY 2022-23 Actuals to Date	FY 2022-23 Proposed Amendments	FY 2022-23 Proposed Amended Budget
		REVENUES Total	471,679	465,000	465,000	235,408	-	465,000
EXPENSES								
Department: 00 -	Non Department Activity							
Program: 0000	- Non Program Activity							
5199.199	Other Fund	Support IT-Serv from Tech Fee	476,466	463,123	463,123	283,587	50,000	513,123
5910.203	Transfers C	Out Building Safety & WW Services	-	116,000	116,000	-	-	116,000
	Program Total	l: 0000 - Non Program Activity	476,466	579,123	579,123	283,587	50,000	629,123
	Department Total:	: 00 - Non Department Activity	476,466	579,123	579,123	283,587	50,000	629,123
		EXPENSES Total	476,466	579,123	579,123	283,587	50,000	629,123
Fu	nd REVENUE Total: 7627 -	- Tech Equip Replacement/Update	471,679	465,000	465,000	235,408	-	465,000
Fu	ind EXPENSE Total: 7627 -	Tech Equip Replacement/Update	476,466	579,123	579,123	283,587	50,000	629,123
	Fund Total: 7627 - Ted	ch Equip Replacement/Update	(4,787)	(114,123)	(114,123)	(48,179)	(50,000)	(164,123)
•	lan Update Non Department Activity - Non Program Activity							
3345.200	-	nues - Other Miscellaneous	124,679	65,000	65,000	73,303	-	65,000
3406.100	Surcharge (General Plan Fees	383,833	385,000	385,000	204,327	-	385,000
3610.100	-	venue Investments	979	-	-	-	-	-
	Program Total	l: 0000 - Non Program Activity	509,491	450,000	450,000	277,630	-	450,000
	Department Total:	: 00 - Non Department Activity	509,491	450,000	450,000	277,630	-	450,000
		REVENUES Total	509,491	450,000	450,000	277,630	-	450,000
•	Non Department Activity							
_	- Non Program Activity							
5910.010		out To General Fund	201,178	800,000	800,000	24,962	-	800,000
5910.030		Out To Development Services Fund		-	-	48,341	-	-
	_	l: 0000 - Non Program Activity	201,178	800,000	800,000	73,303	-	800,000
	Department Total:	: 00 - Non Department Activity	201,178	800,000	800,000	73,303	-	800,000
		EXPENSES Total	201,178	800,000	800,000	73,303	-	800,000
	Fund REVENUE	Total: 7628 - General Plan Update	509,491	450,000	450,000	277,630	-	450,000
	Fund EXPENSE	Total: 7628 - General Plan Update	201,178	800,000	800,000	73,303	-	800,000
Funds 7640 Disability	Fund Tota	al: 7628 - General Plan Update	308,313	(350,000)	(350,000)	204,327	-	(350,000)

Fund: 7640 - Disability Access and Education

REVENUES

Department: 00 - Non Department Activity
Program: 0000 - Non Program Activity

Accoun	nt Number	Account Description	FY 2021-22 Unaudited Actual Amount	FY 2022-23 Adopted Budget	FY 2022-23 Amended Budget	FY 2022-23 Actuals to Date	FY 2022-23 Proposed Amendments	FY 2022-23 Proposed Amended Budget
		·						
3406.1		Surcharge Disability Access SB 1186	1,124	1,000	1,000	471	-	1,000
3610.1		Interest Revenue Investments	2	-	-	-	-	-
		rogram Total: 0000 - Non Program Activity	1,126	1,000	1,000	471	-	1,000
	Depar	tment Total: 00 - Non Department Activity	1,126	1,000	1,000	471	-	1,000
		REVENUES Total	1,126	1,000	1,000	471	-	1,000
EXPENSES								
Department:	00 - Non Departme	•						
Program:	0000 - Non Progran	,						
5260	_	Miscellaneous	250	2,400	2,400	150	-	2,400
		rogram Total: 0000 - Non Program Activity	250	2,400	2,400	150	-	2,400
	Depar	rtment Total: 00 - Non Department Activity	250	2,400	2,400	150	-	2,400
		EXPENSES Total	250	2,400	2,400	150	-	2,400
	Fund REVENUE	Total: 7640 - Disability Access and Education	1,126	1,000	1,000	471	-	1,000
	Fund EXPENSE	Total: 7640 - Disability Access and Education	250	2,400	2,400	150	-	2,400
	Fund Tot	tal: 7640 - Disability Access and Education	876	(1,400)	(1,400)	321	-	(1,400)
Fund: 7650 - TO REVENUES Department: Program:	P as Successor RDA 60 - RDA 4975 - Successor RI	DANH Operations						
3610.1		Interest Revenue Investments	117	-	<u>-</u>	889	-	_
3910.0		Transfers In From General Fund	-	40,500	40,500	-	-	40,500
3910.9		Transfers In From RDA Obligation Retirement	28,674	-	-	32,421	_	-
		Total: 4975 - Successor RDANH Operations	28,791	40,500	40,500	33,310	-	40,500
		Department Total: 60 - RDA	28,791	40,500	40,500	33,310	-	40,500
		REVENUES Total	28,791	40,500	40,500	33,310	-	40,500
EXPENSES Department: Program:	60 - RDA 4975 - Successor R	·						
5213.1	100	Professional/Contract Services General	31,425	18,300	18,300	7,100	-	18,300
5225		Bank Fees and Charges	-	-	-	3	-	-
5500		Bond Payments - Fiscal Agent	8,500	6,000	6,000	6,000	-	6,000
5502		Debt Service Payment - Interest	297,759	146,149	146,149	-	-	146,149
5910.0		Transfers Out To General Fund	16,200	16,200	16,200	-	-	16,200
	Program '	Total: 4975 - Successor RDANH Operations	353,884	186,649	186,649	13,103	-	186,649
		Department Total: 60 - RDA	353,884	186,649	186,649	13,103	-	186,649
		EXPENSES Total	353,884	186,649	186,649	13,103	-	186,649
	Fund RI	EVENUE Total: 7650 - TOP as Successor RDA	28,791	40,500	40,500	33,310	-	40,500

FY 2021-22

Account Number	Account Description	Unaudited Actual Amount	FY 2022-23 Adopted Budget	FY 2022-23 Amended Budget	FY 2022-23 Actuals to Date	Proposed Amendments	Proposed Amended Budget
	Fund EXPENSE Total: 7650 - TOP as Successor RDA	353,884	186,649	186,649	13,103	-	186,649
	Fund Total: 7650 - TOP as Successor RDA	(325,093)	(146,149)	(146,149)	20,208	-	(146,149)
Fund: 7700 - PG&E Settlem	nent Fund						
REVENUES							
Department: 00 - Nor	Department Activity						
Program: 0000 - No	on Program Activity						
3610.100	Interest Revenue Investments	1,215,836	1,100,000	1,100,000	841,727	-	1,100,000
3615.100	Change in Investment Value - Unrealized Gain/Loss General	(10,924,975)	-	-	(4,344,052)	-	-
3616.100	Change in Investment Value - Realized Gain/Loss General	(295,421)	-	-	(151,755)	-	-
3901.100	Refunds and Reimbursements Miscellaneous	-	-	2,227,843	2,227,843		2,227,843
	Program Total: 0000 - Non Program Activity	(10,004,561)	1,100,000	3,327,843	(1,426,237)	-	3,327,843
	Department Total: 00 - Non Department Activity	(10,004,561)	1,100,000	3,327,843	(1,426,237)	-	3,327,843
	REVENUES Total	(10,004,561)	1,100,000	3,327,843	(1,426,237)	-	3,327,843
•	n Department Activity on Program Activity Professional/Contract Services General	83,286	84,000	84,000	28,247	_	84,000
5910.010	Transfers Out To General Fund	5,581,881	10,985,377	11,175,297	3,695,973	105,500	11,280,797
3310.010	Program Total: 0000 - Non Program Activity	5,665,167	11,069,377	11,259,297	3,724,221	105,500	11,364,797
	Department Total: 00 - Non Department Activity	5,665,167	11,069,377	11,259,297	3,724,221	105,500	11,364,797
	EXPENSES Total	5,665,167	11,069,377	11,259,297	3,724,221	105,500	11,364,797
	Fund REVENUE Total: 7700 - PG&E Settlement Fund	(10,004,561)	1,100,000	3,327,843	(1,426,237)	-	3,327,843
	Fund EXPENSE Total: 7700 - PG&E Settlement Fund	5,665,167	11,069,377	11,259,297	3,724,221	105,500	11,364,797
	Fund Total: 7700 - PG&E Settlement Fund	(15,669,728)	(9,969,377)	(7,931,454)	(5,150,458)	(105,500)	(8,036,954)
Fund: 7808 - Canine Protect REVENUES	ction Unit Donations						
Department: 30 - Poli Program: 0000 - No	ce on Program Activity						
3610.100	Interest Revenue Investments	7	175	175	-	-	175
3650.100	Donations Private Sources	9,516	5,000	5,000	7,690	-	5,000
	Program Total: 0000 - Non Program Activity	9,523	5,175	5,175	7,690	-	5,175
	Department Total: 30 - Police	9,523	5,175	5,175	7,690	-	5,175
	REVENUES Total	9,523	5,175	5,175	7,690	-	5,175
EXPENSES							

FY 2022-23

FY 2022-23

EXPENSES

Department: 30 - Police

Program: 4520 - Police Operations

Accoun	nt Number	Account Description	FY 2021-22 Unaudited Actual Amount	FY 2022-23 Adopted Budget	FY 2022-23 Amended Budget	FY 2022-23 Actuals to Date	FY 2022-23 Proposed Amendments	FY 2022-23 Proposed Amended Budget
		·						
5202.10		Operating Supplies General	5,355	2,000	2,000	1,620	-	2,000
5220.10	.00	Employee Development General	-	-	-	1,500		-
		Program Total: 4520 - Police Operations	5,355	2,000	2,000	3,120	-	2,000
		Department Total: 30 - Police	5,355	2,000	2,000	3,120	-	2,000
		EXPENSES Total	5,355	2,000	2,000	3,120	-	2,000
	Fund REVENUE	Total: 7808 - Canine Protection Unit Donations	9,523	5,175	5,175	7,690	-	5,175
	Fund EXPENSE	Total: 7808 - Canine Protection Unit Donations	5,355	2,000	2,000	3,120	-	2,000
	Fund Total	al: 7808 - Canine Protection Unit Donations	4,168	3,175	3,175	4,570	-	3,175
REVENUES Department:	imal Control Misc Do 30 - Police 4540 - Police - Anii							
3610.10	.00	Interest Revenue Investments	23	100	100	-	-	100
3650.10		Donations Private Sources	16,669	3,400	3,400	9,128	-	3,400
3695.10	.00	Private Grants Animal Control	, -	-	· -	5,000	-	· -
	Pr	ogram Total: 4540 - Police - Animal Control	16,692	3,500	3,500	14,128	-	3,500
		Department Total: 30 - Police	16,692	3,500	3,500	14,128	_	3,500
		REVENUES Total	16,692	3,500	3,500	14,128	-	3,500
EXPENSES			.,	.,	,,,,,,	, .		,,,,,
Department:	30 - Police							
Program:	4540 - Police - Anii	mal Control						
5910.0	70	Transfers Out To Animal Control Fund	3,500	6,917	6,917	-	-	6,917
	Pr	ogram Total: 4540 - Police - Animal Control	3,500	6,917	6,917	-	-	6,917
		Department Total: 30 - Police	3,500	6,917	6,917	-	-	6,917
		EXPENSES Total	3,500	6,917	6,917	-	-	6,917
	Fund REVENUE	E Total: 7811 - Animal Control Misc Donations	16,692	3,500	3,500	14,128	-	3,500
	Fund EXPENSE	Total: 7811 - Animal Control Misc Donations	3,500	6,917	6,917	-	-	6,917
	Fund T	Total: 7811 - Animal Control Misc Donations	13,192	(3,417)	(3,417)	14,128	-	(3,417)

TOWN OF PARADISE RESOLUTION NO. 23-__

A RESOLUTION OF THE TOWN COUNCIL OF THE TOWN OF PARADISE, CALIFORNIA, ADOPTING THE AMENDED SALARY PAY PLAN FOR TOWN OF PARADISE EMPLOYEES FOR THE FISCAL YEAR 2022-2023

WHEREAS, the Town wishes to revise the salary pay plan; and

WHEREAS, the salary pay plan will incorporate all salary paid within the Town into one salary pay plan.

NOW, THEREFORE be it resolved by the Town Council of the Town of Paradise, that the Town of Paradise salary pay plan attached to this resolution is hereby adopted.

PASSED AND ADOPTED by the Town Council of	f the Town of Paradise this 14th day of F	February, 2023, by the following vote:
AYES:		
NOES:		
ABSENT:		
NOT VOTING:		
ATTEST:	Greg Bolin, Mayor	_
By: Dina Volenski, CMC, Town Clerk		
APPROVED AS TO FORM:		

Scott E. Huber, Town Attorney



Council Agenda Summary Agenda Item: 6(g)

Date: February 14, 2023

ORIGINATED BY: Kate Anderson, Housing Program Manager

REVIEWED BY: Kevin Phillips, Town Manager

SUBJECT: MOU with local non-profits for lot acquisition for

affordable homeownership

LONG TERM No

RECOVERY PLAN:

COUNCIL ACTION REQUESTED:

1. Consider reviewing and approving the Memorandum of Understanding (MOU) with local non-profits for lot acquisition for affordable homeownership; and,

2. Adopt Resolution No. 2023-___ "A Resolution of the Town Council of the Town of Paradise Directing the Method of Purchase of Lots for the Construction of Affordable Housing and Making Findings Related Thereto."

Background:

As part of the 2020 CDBG Annual Action Plan, the Town set aside \$135,771 toward lot acquisition for affordable homeownership. In March of 2022, the Town applied for \$700,000 in HOME funds to create an Infill New Construction to build affordable homes on lots acquired using those CDBG funds. In addition, as part of the 2022 CDBG Annual Action Plan, the Town reserved \$12,899 in funds to assist with the management of the HOME Infill New Construction program.

Analysis:

Due to Council's desire for the Town not to acquire land until construction can take place, the Housing Department held off on acquiring the land until construction funds were secured. In July of 2022, the State temporarily suspended their HOME First-Time Homebuyer program, which the Infill New Construction program is under, delaying the ability to move forward with this program. In December, the State indicated that the Town has been awarded the HOME funds for the Infill New Construction program but cannot access those funds until the suspension is lifted.

The Town is experiencing a timeliness issue in spending down its CDBG entitlement funds, of which there is a May 1st deadline to spend a minimum of \$621,513.52. Spending the \$135,771 for property acquisition will help the Town's timeliness issue.

To accomplish both tasks of acquiring land for Infill New Construction and spending CDBG funds, while acknowledging Council's desire for the Town not to acquire land, the Housing Department reached out to local non-profits whose mission is affordable housing. This MOU allows the Town to pay for land, using CDBG funds, being acquired for affordable homeownership but the title will be held by the non-profit. In the case of CHIP and Habitat, they will use the property for affordable self-help homeownership; in the case of North Valley Housing Trust, they will hold the property

until HCD releases its First-Time Homebuyer program enabling the Town to conduct its Infill New Construction program.

The associated resolution was drafted by the Town's legal counsel to clarify that this MOU arrangement is not a gift of public funds and will result in affordable homeownership.

Financial Impact:

No effect on the general fund. However, by spending the \$135,771 on lot acquisition, the Town is closer to curing their timeliness issue with its CDBG entitlement, thereby better securing future CDBG entitlement funds.

TOWN OF PARADISE RESOLUTION NO. 2023-

A RESOLUTION OF THE TOWN COUNCIL OF THE TOWN OF PARADISE DIRECTING THE METHOD OF PURCHASE OF LOTS FOR THE CONSTRUCTION OF AFFORDABLE HOUSING AND MAKING FINDINGS RELATED THERETO

WHEREAS, the Town of Paradise has been subjected to the most disruptive and cataclysmic wildfire ("Camp Fire") which destroyed a majority of homes and residential dwellings in the Town; and

WHEREAS, the Camp Fire destruction has created many hundreds of homeless individuals in the Town of Paradise; and

WHEREAS, the public need for affordable and low-income housing has never been greater in the Town of Paradise; and

WHEREAS, the Town of Paradise has received Community Development Block Grant ("CDBG") funds earmarked for lot acquisition for the construction of affordable home ownership; and

WHEREAS, the Town of Paradise is temporarily not able to fully construct new affordable homes on any properties that it may purchase for that purpose; and

WHEREAS, the Town is experiencing a timeliness issue in spending down its CDBG entitlement funds: and

WHEREAS, to accomplish the goal of acquiring land for Infill New Construction and spending CDBG funds, the Town of Paradise desires to utilize the CDBG funds for the public purpose of purchasing lots for the construction of affordable housing; and

WHEREAS, the title to the purchased lots will be held in the name of a local non-profit housing provider; and

WHEREAS, the Town Council of the Town of Paradise determines and finds that this purchase of land is for a public purpose and in the benefit of the public at large to enable the timely construction of affordable housing in the community.

NOW, THEREFORE, BE IT RESOLVED BY THE TOWN COUNCIL OF THE TOWN OF PARADISE AS FOLLOWS:

SECTION 1. The above facts are true and correct and are incorporated by reference as if fully set forth herein.

SECTION 2. The Town Council determines and finds that the purchase of land for affordable housing purposes which title will be held in the name of a local non-profit is

TOWN OF PARADISE RESOLUTION NO. 2023-

for a public purpose and in the benefit of the public at large. In addition, this scenario will enable the timely construction of affordable housing in the community beyond what would be accomplished if the Town did not engage in this process.

SECTION 3. The Town Council determines and finds that the above-described scenario for the purchase of land for affordable housing purposes does not constitute an impermissible gift of public funds.

PASSED AND ADOPTED by the Town Council of the Town of Paradise on this 14th day of February, 2023, by the following vote:

AYES:			
NOES:			
ABSENT:			
ABSTAIN:			
ATTEST:	Ву: _	Greg Bolin, Mayor	
Dina Volenski, CMC, Town Clerk			
APPROVED AS TO FORM:			
Scott E. Huber, Town Attorney			

MEMORANDUM OF UNDERSTANDING

This Memorandum of Understanding ("MOU") is made effective as of <cdate>
("Effective Date"), setting forth the Parties' desires regarding their respective rights and responsibilities for potential development and construction of an affordable housing project, commonly known as <a

- Town of Paradise, a California municipality, ("Town"), located at 5555 Skyway, Paradise, CA 95969, who will serve as the financier of the Property and overseer of the Project; and
- <North Valley Housing Trust, Habitat for Humanity of Butte County, or
 Community Housing Improvement Program>, a California nonprofit corporation
 ("Non-profit"), located at ________, the Owner of the Property and a
 collaborator of the Project.

Town and Non-profit is each a "Party" and are collectively referred to as the "Parties".

NOW, THEREFORE, in consideration of the mutual understandings and agreements set forth herein, the Parties agree as follows:

AGREEMENT

- 2. <u>Funding of the Project</u>. Depending on the specific project and the capacities of the non-profit, the Town and/or the non-profit will be responsible for securing project funding. The financing structure will be mutually determined by the Town and the non-profit prior to the non-profit taking title of the property.
- 3. <u>Purchase, Sale and Transfer of the Property</u>. Town will pay for/provide the Property to the Non-profit, and the non-profit will hold title. Upon the close of escrow for the purchase of the Property ("**Closing**"), use of the Property will be restricted as an affordable homeownership project. Non-profit will, during the Term, maintain the Property (i.e., pay property taxes, secure liability insurance, maintain weed abatement, etc.). The property cannot be sold until and unless the Project has been

completed, resulting in affordable homeownership. Should this Agreement expire without the Project being completed, the Property shall be transferred to the Town of Paradise.

- 4. Planning, Development and Construction of the Project. Upon securing funding for the Project, and after the Closing, the Parties will approach the Project as follows: Non-profit will take the lead to organize and coordinate various phases of the Project, working with the Town to plan, design, develop and construct the Project pursuant to the requirements of all applicable local, state and federal authorities having jurisdiction over the matters, including, without limitation, Housing Quality Standards; and site, neighborhood and environmental standards of Housing and Urban Development (collectively the "Laws"). In consultation with Town, Non-profit is primarily responsible during these phases for developing and providing budget projections; architectural designs and engineering; and securing building and occupancy permits for low-income homeownership, with the goal of achieving an early and efficient completion and delivery of the Project in compliance with the Laws.
- 5. Ownership, Operation and Administration of the Project. Upon completion of the Project and issuance of a final occupancy permit, the Project will be sold to qualified, low-income household(s). Except in the case of a USDA Rural Development mutual self-help housing project, in which case the Project will be sold to a qualified, low-income household prior to construction and completion of the Project and issuance of a final occupancy permit. In the event that low-income household is unable to complete the Project, the Project must be sold to another qualified household.
- 6. Other Terms and Conditions. The Parties represent and warrant that they have full power and authority to execute this MOU, which shall be construed as if the Parties jointly prepared it, and which sets forth all the agreement and conditions among them concerning the Property and the Project, and that there are no covenants, agreements or conditions either oral or written among them other than are herein set forth. This MOU may be executed in counterparts via facsimile, email or DocuSign, each of which copies shall constitute an original, and all such counterparts when taken together shall constitute one and the same document. All notices under this MOU shall be in writing, and shall be deemed delivered when delivered in person or by overnight courier or by depositing in the United Sates mail, certified or registered mail, return receipt requested, postage prepaid, addressed to other Party as set forth above.

IN WITNESS WHEREOF, the parties have signed this MOU as of the Effective Date.

Town of Paradise, a California municipality		<non-profit>, a California nonprofit corporation</non-profit>	• ,		
By:		By:			
•	Kevin Phillips	<add person=""></add>			
lts:	Town Manager	Its: <add title=""></add>			

Town of Paradise



Council Agenda Summary

Date: February 14, 2023

ORIGINATED BY: Colette Curtis, Recovery and Economic

Development Director

Ross Gilb, Finance Director/Town Treasurer

Agenda Item: 6(h)

REVIEWED BY: Kevin Phillips, Town Manager

SUBJECT: Transient Occupancy Tax Discussion

COUNCIL ACTION REQUESTED:

Provide direction regarding future spending of transient occupancy tax revenues.

Background:

Transit Occupancy Tax (TOT) funds are intended to be used by local jurisdictions to offset impacts of short-term stays in the community. These funds may be used at the discretion of the local jurisdiction and may be used to promote tourism and increase the number of visitors to local hotels, thereby increasing revenue to local businesses and ultimately supporting economic vitality.

Per Paradise Municipal Code section 3.24.30, the current transient occupancy tax (TOT) rate is ten percent of the rent charged by the operator of the temporary lodging establishment. Based on the current TOT rate, the Town is expected to receive approximately \$200,000 in TOT revenues during fiscal year (FY) 2022-23. This current budget amount is estimated based on the trend of average revenues following the 2018 Camp Fire.

Prior to the 2018 Camp Fire, the historical 13-year annual average TOT revenue was approximately \$191,000, while the historical 5-year annual average TOT revenue was \$209,000.

All TOT revenues are currently maintained within the General Fund and applied toward budgeted General Fund expenditures. The use of TOT revenues towards General Fund expenditures has been the practice of the Town since FY 2009-10. Prior to FY 2009-10, the Town had allocated approximately 50% of all TOT revenues received to three outside agencies. Of the 50% allocated, approximately 50% was allocated to the Paradise Ridge Chamber of Commerce, 25% was allocated to the Gold Nugget Museum, and 25% was allocated to the Paradise Performing Arts Center. The average annual TOT revenues collected during the time period in which TOT revenues were allocated totaled approximately \$185,000.

Discussion

At the December 2023 Council meeting, Paradise Town Council gave direction to staff to look into a potential allocation of TOT funds once again towards tourism efforts in the Town of Paradise. Allocating funds to local community groups to further tourism can be accomplished in several ways:

1. **Direct Allocation to community groups**. The Town can choose to allocate a percentage of TOT funding to identified community groups, following the model of what was done prior

- to the 2000-10 fiscal year. Council may elect to add to remove community groups to the list of groups previously funded.
- 2. Allocation based on request by community groups. Council may offer funding to community groups on a request basis, where groups can apply or request funding through a defined process. Groups would identify the funding needs for their program and demonstrate the benefit to tourism for Paradise. A committee consisting of two Council members and staff would be formed to make allocation recommendations for the full Council to approve. This process could be done each year, or at a frequency of the Council's choosing.
- Allocation through another agency. Council could choose to allocate a percentage of TOT funds to an agency which would then grant out the funding to subrecipients through a process of their choosing.

Financial Impact:

As previously stated, the Town is currently expected to receive approximately \$200,000 in transient occupancy taxes during fiscal year 2022-23. This amount is estimated based on the trend of average revenues following the 2018 Camp Fire.

Based on the most recent updates to the fiscal sustainability model, the amount of the original settlement amount reserved for use toward operational costs (~\$200 million) remaining as of the end of the 25-year projection period is projected to be \$62.4 million. This projected reserve balance incorporates the assumption that transient occupancy taxes will be applied toward General Fund expenditures for the entirety of the 25-year projection period. Any allocation of current and future TOT revenues will reduce the projected reserve balance based on the proportionate share of TOT revenues provided to outside agencies and not utilized toward General Fund expenditures.