CITY OF STOCKTON
MUNICIPAL UTILITIES
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Monthly Operations and Maintenance Report

June 2015

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Acronyms and Abbreviations

ACRONYM	DEFINITION
- A -	
ABS	Acrylonitrile Butadiene Styrene
AED	Automated External Defibrillator
AF	Acre Feet
AICPA	American Institute of Certified Public Accountants
AL	Action Levels
ANSI	American National Standards Institute
APCD	Air Pollution Control District
APN	Assessor Parcel Number
APs	Action Plans
APSA	Aboveground Petroleum Storage Act
AQMD	Air Quality Management District
ARB	Air Resources Board
ARV	Air Relief Valve
ASDWA	Association of State Drinking Water Administrators
ATSDR	Agency for Toxic Substances and Disease Registry
AWWA	American Water Works Association
- B -	
BACM	Best Available Control Measure
BCP	Business Continuity Plan
BFP	Belt Filter Press
BMP	Best Management Practice
BOD	Biochemical Oxygen Demand
BOD_5	Standard Biochemical Oxygen Demand – 5 day
BOO	Build-Own-Operate
BOT	Build-Own-Transfer
BPMS	Backflow Prevention Management System
BTU	British Thermal Unit
- C -	
CAC	California Administrative Code
CAFR	Comprehensive Annual Financial Report
CalARP	California Accidental Release Prevention
Cal-EMA	California Emergency Management Association

ACRONYM	DEFINITION
Cal-EPA	California Environmental Protection Agency
Cal/OSHA	California Division of Occupational Safety and Health
CAMAL Net	California Mutual Aid Laboratory Network
CASA	California Association of Sanitation Agencies
c/b or cb	Catch Basin
CBOD	Carbonaceous Biochemical Oxygen Demand
CCC	Criterion Continuous Concentration
CCR	California Code of Regulations
CCTV	Closed Circuit Television
CDC	Centers for Disease Control and Prevention
CDPH	California Department of Public Health
CEQA	California Environmental Quality Act
CERS	California Environmental Reporting System
CFE	Combined Filter Effluent
CFR	Code of Federal Regulations
cfs	Cubic Feet per Second
CH_4	Methane
C.I.I.	Commercial, Institutional, Industrial
CIP	Capital Improvement Project
CIWMB	California Integrated Waste Management Board
CM	Construction Manager
CMC	Criterion Maximum Concentration
CO	Carbon Monoxide
CO	Correction Order
COD	Chemical Oxygen Demand
COP	Certificate of Participation
CoS	City of Stockton
CCB	Chlorine Contact Basin
CIP	Capital Improvement Projects
CMMS	Computerized Maintenance Management Systems
CPFF	Cost Plus Fixed Fee
CPIF	Cost Plus Incentive Fee

ACRONYM	DEFINITION
CPPC	Cost Plus Percentage
CPR	Cardiopulmonary Resuscitation
CQA	Construction Quality Assurance
CQC	Construction Quality Control
CSO	Combined Sewer Overflow
CSPA	California Sportfishing Protection Alliance
CSR	Customer Service Request
CTG	Control Techniques Guidelines
CUWCC	California Urban Water Conservation Council
CVFPB	Central Valley Flood Protection Board
CWEA	California Water Environment Association
- D -	
DO	Dissolved Oxygen
DAF	Dissolved Air Flotation
DAFT	Dissolved Air Flotation Thickener
DAT	Damage Assessment Team
dBA	Decibels (A weighted)
DBP	Disinfection Byproducts
DPH	Department of Public Health
DOT	Department of Transportation
DWSP	Delta Water Supply Project
DWTP	Delta Water Treatment Plant
- E -	
EC	Environmental Control Division
EC	Effective Concentration
EDU	Equivalent Dwelling Unit
EIR	Environmental Impact Report
EIS	Environmental Impact Statement
ELAP	Environmental Laboratory Accreditation Program
EOC	Emergency Operations Center
EOP	Emergency Operations Plan
EPA	Environmental Protection Agency
EPC	Engineer, Procure, Construct
EPT	Enhanced Primary Treatment
ERAP	Emergency Response Action Plan
ERP	Emergency Response Plan
- F -	
FA	First Aid
FBI	Federal Bureau of Investigation
FEMA	Federal Emergency Management Agency
FFY	Federal Fiscal Year

ACRONYM	DEFINITION
FFP	Firm Fixed Price
FIP	Federal Implementation Plan
FOG	Fats, Oils, and Grease
FY	Fiscal Year
- G -	
GAAP	Generally Accepted Accounting Principles
GAAS	Generally Accepted Auditing Standards
GAO	General Accounting Office
GAS	Government Auditing Standards
GASB	Governmental Accounting Standards Board
GBT	Gravity Belt Thickener
GIS	Geographic Information System
GO	General Obligation (bonds)
gpcd	gallons per capita-day
gpd	gallons per day
gpm	gallons per minute
- H -	
H_2S	Hydrogen Sulfide
HAA or HAA5	Halo Acetic Acids
HAP	Hazardous Air Pollutant
HAZMAT	Hazardous Material Response Team
HCFC	Hydrogenated Chlorofluorocarbon
HET	High Efficiency Toilet
HHS	Health and Human Services
HOA	Home Owners' Association
HS	Homeland Security
HSAS	Homeland Security Advisory System
- I -	
I&C	Instrumentation and Control
IC	Inhibition Concentration
IC	Incident Commander
ICS	Incident Command System
I/I	Infiltration/Inflow
IPP	Industrial Pretreatment Program
IO	Information Officer
IPM	Integrated Pest Management
IT	Information Technology
- J – K -	
JPA	Joint (exercise of) Powers Authority

ACRONYM	DEFINITION
- L -	
LCR	Environmental Protection Agency's Lead Copper Rule
LEPC	Local Emergency Planning Commission
LGRS 80	State Controller's Report
LO	Liaison Officer
LPoC	Laboratory Point of Contact
LRAA	Locational Running Annual Average
LRN	Laboratory Response Network
LRO	Legally Responsible Official
- M -	
MACT	Maximum Achievable Control Technology
MBAS	Methylene Blue Active Substances (foaming agents)
MCE	Maximum Credible Earthquake
MCL	Maximum Contaminant Level
MFE	Mixed Final Effluent
MG	Million Gallons
mgd	million gallons per day
mg/L	milligrams per liter
MIL	Million
MMF	Multi Media Filters
MOU	Memorandum of Understanding
MPE	Maximum Probable Earthquake
MPF	Maximum Probable Flood
MPN	Most Probable Number
MRP	Monitoring and Reporting Program
MSDS	Material Safety Data Sheets
MUD	Municipal Utilities Department
- N -	
NaOCl	Sodium Hypochlorite
NaOH	Sodium Hydroxide
NBT	Nitrifying Biotower
NH_3-N	Ammonia Nitrogen
NIMS	National Incident Management Systems
NIPC	National Infrastructure Protection Center
NIOSH	National Institute for Occupational Safety and Health
NOD	Nitrogenous Oxygen Demand
NOEC	No Observed Effect Concentration
NOEL	No Observed Effect Level

ACRONYM	DEFINITION
NOI	Notice of Intent
NOT	Notice of Termination
NOV	Notice of Violation
NOX	Nitrogen Oxides
NPDES	National Pollutant Discharge Elimination System
NRC	National Response Center
NRR	Noise Reduction Ranking
NRWA	National Rural Water Association
NTC	Notice To Clean
NTU	Nephelometric Turbidity Units
NWS	National Weather Service
- O -	
O_3	Ozone
O&M	Operations & Maintenance
OMB	Office of Management and Budget
OSHA	Occupational Safety and Health Administration
OCT	Operator Certification Training, Inc.
- P -	
PACP	Pipeline Assessment Certification Program
PAH	Polynuclear Aromatic Hydrocarbon
PCB	Polychlorinated biphenyl
PERL	Pacific EcoRisk Lab
PFRP	Processes to Further Reduce Pathogens
PG&E	Pacific, Gas, and Electric
PIDS	Primary Influent Distribution Structure
PLC	Programmable Logic Controllers
PLSD	Private Lateral Sewage Discharge
PM	Preventive Maintenance
PM-10	Particulate Matter <10 microns
PMP	Probable Maximum Precipitation
PMSD	Percent Minimum Statistical Difference
POC	Pollutants of Concern
POL	Petroleum, Oil, and Lubricant
POSM	Pipeline Observation System Management.

ACRONYM	DEFINITION
POTW	Publicly Owned Treatment Works
PPE	Personal Protective Equipment
ppm	parts per million
PSMP	Process Safety Management Plan
PSRP	Processes to Significantly Reduce Pathogens
PVC	Polyvinyl Chloride
- Q -	
QA	Quality Assurance
QC	Quality Control
- R -	
RACM	Reasonably Available Control Measures
RACT	Reasonably Available Control Technologies
RE	Resident Engineer
REACON	Recycling Energy Air Conservation
RFP	Request for Proposal
RFQ	Request for Qualifications
RMP	Risk Management Plan
RMP	Regional Monitoring Program
RO	Reverse Osmosis
ROW	Right of Way
ROWD	Report of Waste Discharge
RPR	Resident Project Representative
RQ	Reportable Quantity
RSP	Raw Sewage Pump
RST	RS Technical - The name of a company that makes television inspection equipment for sewer lines, and the TV equipment used by MUD.
RTU	Remote Terminal Units
RWCF	Regional Wastewater Control Facility
RWQCB	Regional Water Quality Control Board
- S -	
SAR	Sodium Adsorption Ratio
SAWS	Stockton Area Water Suppliers
SCADA	Supervisory Control and Data Acquisition
SCBA	Self-contained Breathing Apparatus

ACRONYM	DEFINITION
SEMS	Security and Emergency Management System
SEWD	Stockton East Water District
SIP	State Implementation Plan
SJCEHD	San Joaquin County Environmental Health Department
SJVAPCD	San Joaquin Valley Air Pollution Control District
SMARTS	Storm Water Multiple Application and Report Tracking System
SO_2	Sulfur Dioxide
SOP	Standard Operating Procedure
SPCC Plan	Spill Prevention, Control, and Countermeasures Plan
SS	Settleable Solids
SSES	Sewer System Evaluation Survey
SSMP	Sewer System Management Plan
SSO	Sanitary Sewer Overflow
SSORP	Sanitary Sewer Overflow Response Plan
STEP	Septic Tank Effluent Pumping
STP	Sewage Treatment Plant
SUA	Stockton Urbanized Area
SWMP	Stormwater Management Plan
SWQCCP	Stormwater Quality Control Criteria Plan
SWRCB	State Water Resources Control Board
- T -	
T&M	Time & Materials (contract)
TC	Total Carbon
TDH	Total Dynamic Head
TDS	Total Dissolved Solids
TTHM	Total Trihalomethanes
TIE	Toxicity Identification Evaluation
Title V	Federal Clean Air Standards
TKN	Total Kjeldahl Nitrogen
TMDL	Total Maximum Daily Load
TOC	Total Organic Carbon
TOD	Total Oxygen Demand
TSS	Total Suspended Solids
TU_c	Chronic Toxicity Unit

ACRONYM	DEFINITION
- U – V -	
UDRW	Urban Discharge Receiving Water
UERM	Utility Emergency Response Manager
UEOCM	Utility Emergency Operations Center Manager
U.S. EPA	United States Environmental Protection Agency
USA	Underground Service Alert
VA	Vulnerability Assessment
VAR	Vector Attraction Reduction
VCP	Vitrified Clay Pipe
VE	Value Engineering
VFD	Variable Frequency Drive
VOC	Volatile Organic Compound
VSS	Volatile Suspended Solids
VWN	Verbal Warning Notice
- W – X – Y – Z -	
Water**I**SAC	Water Information and Security Analysis Center
WDR	Waste Discharge Requirements
WERF	Water Environment Research Foundation
WFO	Water Field Office
WID	Woodbridge Irrigation District
WLA	Waste Load Allocation
WTP	Water Treatment Plant
WWTP	Wastewater Treatment Plant

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Executive Summary

Summary

This report is a summary of the information management records of the Water Resources; Water Distribution, Treatment & Production; Wastewater Treatment; Wastewater Collections; Environmental Control; Laboratory, Engineering; Stormwater; and Administration Division activities within the City of Stockton, Municipal Utilities Department (MUD) for June 2015. It includes statistical data and narrative descriptions of reportable activities, events, and issues.

Water Resources

The State Water Resources Control Board mandated on May 5, 2015, the City of Stockton water services areas to reduce 28% in water usage, when compared to 2013. For the month of June, the City achieved a 38% water conservation savings. In addition, during the month of June, the City received 394 water waste complaints from the general public.

Water Distribution, Treatment, and Production

The Delta Water Treatment Plant continued to receive water from the Woodbridge Irrigation District, and diversions from the San Joaquin River continued. Total drinking water treated and produced from the Delta Water Treatment Plant and groundwater wells to the City's north and south systems totaled approximately 875 million gallons for the month of June and averaged 29 million gallons per day (mgd). The City's wholesaler, Stockton East Water District, only delivered water to the City's Walnut Plant system through the California Water Service Company. The total and monthly average includes the amount of water delivered by the Stockton East Water District.

Wastewater Treatment

The plant treated an average flow of 25.7 mgd. Preventative maintenance work on the primary sedimentation tanks and the secondary clarifiers is ongoing. Operations continue to work to improve the control over the chloramination process. Plant flow has been regulated through the wetlands to help reduce the mosquito population. Operations worked with the Engineering division to test run Biotower #4. The results are being evaluated by Engineering. Operations monitored the plant influent and downstream processes closely while the collections division treated the interceptor pipes for sulfides.

Wastewater Collections

A total of four Sanitary Sewer Overflows (SSOs) occurred. All four were Category 3 SSOs. All pipes and areas affected were cleaned to ensure capture and return of the pollutants to the sanitary sewer system.

The City is continuing the odor and corrosion control pilot project on sanitary systems 7 & 8. There was one odor complaint this month. In the event there is an odor complaint, staff investigates to confirm if the odor complaint is associated with the City's sanitary sewer system and identify specific pipeline segments where the odors are coming from.

Environmental Control

The Fats, Oils, and Grease (FOG) Program is in its fifth year of restaurant inspections. AS400 data entries are made on a daily basis as officers complete their inspections.

Laboratory

The lab analyzed 769 samples for 2724 analyses. Contract labs analyzed 198 samples for 438 analyses. There were 151 samples for NPDES Permit compliance; 308 samples for process control, and 310 samples for drinking water compliance.

The lab continues to provide on-going support for additional sampling and analyses to a consultant working on Wastewater permit compliance items.

The laboratory staff welcomed a new Laboratory Supervisor mid-month.

Engineering

There were 19 development reviews received and 15 completed and returned in June.

The procurement of Progressive Design-Build Services for the Regional Wastewater Control Facility Project is moving forward. A Request for Proposals was issued on May 8, 2015 to four shortlisted firms and proposals are due on July 23, 2015.

Stormwater

There were five storm drain catch basin grates stolen in June. Since the beginning of fiscal year 2014-2015, there have been 175 grates stolen. The downtown business area is being inspected monthly and cleaning of the areas surrounding the catch basins is completed on an as-needed basis to minimize trash and debris entering the storm system.

Inspections of construction sites continue to be a priority for the City of Stockton. There were 16 Stormwater inspections conducted at active construction sites. There were five Verbal Warnings, two Correction Orders, and three Notices to Clean, no Notices of Violations, no Administrative Citations, and no Referrals were sent to Regional Water Quality Control Board during this period.

Inspections of industrial, commercial facilities and residential complaints and field observation resulted in eight Violation Warning Notices, and three Administrative Citations issued.

Administration

There were no unsafe conditions, no vehicle accidents, and two work related injuries. A total of 438 safety-training hours provided to staff this month through tailgate sessions and specialized training. Recruiting efforts have been active to fill openings due to resignations and retirements. Finding and retaining qualified candidates continues to be difficult. Current staff totals 196 of the approved 217 positions. Overtime decreased from last month.

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Water Resources

Operational Activities

The Water Resources Division is responsible for overall water supply planning for the Water Utility. Those duties include contracting for purchased water, water conservation, utility planning and reporting, regional planning coordination, water utility budgeting, and supporting the Community Development Department Planning Division. Since its inception in 2004, the Division has focused primarily on the development and startup of the Delta Water Treatment Plant (DWTP). DWTP was commissioned in 2012 and is now fully operational.

Water Resources staff supports the DWTP and Water Distribution by employee recruitments and safety training; preparing budgets; procuring materials, chemicals, vehicles and supplies; and negotiating various maintenance and service contracts.

CDM Smith has substantially completed the Chloramine Conversion Project, which includes facilities at the North Stockton Pipeline and six groundwater wells to convert residual chlorine disinfection to chloramines to ensure compliance with State and Federal Disinfection By-Product regulations. The Chloramine Conversion Project is scheduled for commissioning in the fall of 2015.

Surface water from the Delta Water Treatment Plant provides drinking water for the majority of the City's water service areas. Stockton East Water District and the City's groundwater wells supplement DWTP surface water.

The Stockton East Water District (SEWD) was informed by the Bureau of Reclamation they would be receiving 0% of their annual allocation from the New Melones Reservoir for calendar year 2015, but 20,000 acre-feet of water from New Hogan Reservoir and groundwater wells within SEWD's property are available to the Stockton Area Water Suppliers, which is comprised of the City of Stockton, California Water Service Company and San Joaquin County.

On September 23, 2014, the City Council declared a Stage 1 Water Shortage Emergency, requiring a mandatory 10% reduction in water use and extending water conservation requirements year-round and on May 19, 2015, an emergency ordinance was declared for additional water conservation measures to ensure compliance with the State Water Resources Control Board's emergency water conservation measures.

The Water Conservation Program continues to develop and implement water saving programs and incentives in accordance with the following:

- The 2006 Memorandum of Understanding with the California Urban Water Conservation Council (CUWCC) implements best management practices to conserve water in urban areas
- The Urban Water Management Planning Act identifies 14 Demand Management Measures to achieve water conservation savings

- The Water Conservation Act of 2009 requires a statewide reduction in per capita water consumption by the year 2020

The Governor's Proclamation declaring a State of Emergency in the State of California due to serve drought conditions has staff planning for extended drought conditions and increased water conservation messaging for this year. On May 5, 2015, the State Water Resources Control Board mandated the City's water utility to achieve a monthly 28% water conservation savings, using 2013 as a baseline. For the month of June, the City achieved a 38% reduction in water consumption when compared to June 2013.

In the following sections, a summary is presented for those programs and incentives.

Outreach and Education

As part of the City's efforts to educate the community, customers are encouraged to notify the City when they witness water waste. This allows members of the community and staff to identify potential water leaks, excessive watering, and/or misuse of water supplies. This is done in an effort to work cooperatively toward a solution. There were 394 complaints received for the month of June, and staff was able to resolve each of the problems. The number of complaints in June is a 1,691% jump in complaints when compared to March 2015. Table 1.1 provides a summary of these activities.

Outreach and education was achieved through monthly utility bill inserts, print and web-based publications. Table 1.2 Illustrates the number of impressions made as part of these outreach efforts.

The San Joaquin County Master Gardener Program did not hold a workshop in June, however, this group will continue to meet monthly at the DWTP on the second Saturday of each month.

School Programs

Through participation in the Stockton Area Water Suppliers (SAWS), local area schools are offered onsite assemblies, in-class presentations and after-school programs. The City receives an annual report on the SAWS Water Education Program that summarizes the programs and information provided, the number of students that were reached, and feedback from teaching professionals. For the 2014/2015 school year, the SAWS Water Education Program reached a total of 28,268 students and participants; 23,538 through in-class event and after-school programs, and 4,730 through the Zun Zun assembly program.

Water Use Surveys

In May 2009, in-home water use surveys became available to Stockton residents when staffing resources are available. This offered residents the opportunity to review one-on-one with Water Conservation staff their current water use practices and methods by which residents can save both water and money. In August 2011, self-certification water use surveys became available during times when staffing resources are limited. Through both surveys, customers are able to evaluate their water use and calculate estimated savings with the use of water efficient devices. Currently, only the self-certification water use surveys are available for customers due to limited staffing.

Table 1.3 identifies the number of surveys requested and completed. At the end of each residential survey, water efficient devices are provided to respective customers. A summary of water saving devices distributed is provided in Table 1.4.

Incentives and Rebates

The High Efficiency Toilet (HET) Direct Install Program was approved by City Council to reduce water use by commercial, industrial, and institutional customers, and ultimately, assist in reducing their cost of doing business. The program covers the material and installation cost of replacing older, inefficient toilets with EPA WaterSense labeled devices through local plumbing contractors. The program has exhausted its funding; and staff will be recommending to the City Council the addition of funding to the program in the near future.

Table 1.5 identifies the current number of installations for this program to-date, including estimated water savings.

Landscape Programs

Program development continues to assist large landscape customers in identifying ways to reduce water use. Upon request, water conservation staff will meet with homeowners' associations and other large landscape users to evaluate water use and provide recommendations for improvement.

Water conservation staff continued the pilot program, which calculates and distributes ongoing water use reports to large landscape sites. These reports compare actual water use to a budget benchmark based on site-specific characteristics and real-time weather for approximately 120 sites. To date, three field surveys have been completed. Survey customers were provided with a comprehensive report of findings and recommendations. The ultimate goal of the program is to improve water efficiency among large landscape customers.

There is an internet resource, www.stockton.watersavingplants.com, made available free of charge through the Water Conservation Program. This website provides information on water efficient gardens, resources, and watering tips. The site also allows users to plan their own water efficient garden online. This month, there were 737 visitors to the website.

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Water Treatment, Production, and Distribution

Operational Activities

The City's Delta Water Treatment and Water Distribution Divisions are responsible for the treatment, production, operation, and maintenance of the City of Stockton Water Treatment Plant and Distribution Systems. The distribution system uses a combination of surface water - treated and delivered by the City's water treatment plant from the Sacramento/San Joaquin Delta and/or the Mokelumne River - groundwater wells, and surface water treated and delivered by a water wholesaler - Stockton East Water District (SEWD) - from New Hogan and New Melones Reservoirs.

Staff is responsible for treating and distributing potable drinking water to more than 48,000 service connections. This is done through a networked system of wells, reservoirs (above-ground storage tanks), pipelines, valves, and meters. The system is monitored and maintained 24/7 through electronic equipment, telemetry and manual operation. Adequate water pressure must be maintained throughout the system at all times for water quality, firefighting, industrial, commercial, and residential use. Leaks are a high priority and are usually investigated within an hour of the report. Water quality complaints, such as pressure, odor, taste, or color issues, are handled on a same-day basis.

Additional responsibilities include enforcement of the water conservation program, collecting water samples for regulatory compliance, implementation, and monitoring of the City's Cross-Connection Prevention Program, manually reading all water meters for billing each month, investigating high bill complaints, performing fire flow tests, and the maintenance and repair of over 7,000 fire hydrants.

Department of Public Health

There were no bacteriological water quality violations during the month in the North, Walnut Plant, and South distribution systems. All sampling and monitoring pursuant to the Title 22 regulations was completed. A copy of the Title 22 monitoring results is included in Appendix A. The monthly coliform monitoring report was submitted to the Department of Public Health. Table 2.1 presents a summary of the Coliform Monitoring results in the distribution system.

Water Treatment

Delta water diversions from the San Joaquin River began on May 20, 2015, and Mokelumne River deliveries via the Woodbridge Irrigation District's canal system continued (deliveries started on March 7, 2015). DWTP daily production averaged 22.0 million gallons per day for the month.

The plant continued to meet regulatory limits for Combined Filter Effluent (CFE), maintained at 0.1 Nephelometric Turbidity Units (NTU) at all times.

Water Production

An electrical fire at Well SS2 caused damage to the electrical panel, meter, socket, relays and wiring inside the panel. Staff replaced all damaged components and upgraded the wiring to meet new PG&E standards. Personnel at DWTP continued closed system monitoring as water continued to flow from the north system to the south system. Staff continued daily well/reservoir checks and maintenance throughout the month. Operational status for existing wells is shown on Table 2.2.

Water Production Summary

Table 2.3 and Figure 2.A illustrate water production in million gallons (MG) pumped from the City's two well production systems, the DWTP, and purchased water delivered to the North, Walnut Plant, and South Systems from SEWD. The SEWD North System total includes water purchased by San Joaquin County and wheeled through the City's system. Table 2.3A shows total influent for the Delta Water Treatment Plant by water source. The detail of the production report is included in Appendix A-2. The corresponding table from Fiscal Year 2013-2014 is presented for comparison.

Production/Consumption Summary

Table 2.4 and 2.5 present the overall summary of water production and consumption for the previous month, current month, and fiscal year-to-date. The corresponding table from Fiscal Year 2013-2014 is presented for comparison. The metered consumption figures are not available until after all billing is completed in the City's billing system and are not included in the current month column.

Stockton East Water District City/County North System total includes water purchased by San Joaquin County from SEWD and wheeled through the City's System. This sum also includes City water wholesaled to the County.

The unmetered water consumption quantities are based upon estimates made from observations and documentation provided by other City departments.

Chemical/Utility Consumption Summary

Table 2.6 presents a summary of chemical consumption in connection with operation of the production system, including the DWTP. In response to a request, the electricity totals for the wells, reservoirs, and booster station are now being reported separately. These totals are not available for the previous months. The corresponding table from fiscal year 2013-2014 is presented for comparison.

Table 2.7 presents a summary of utility consumption and outages in connection with operation of the production system, including the DWTP. Table 2.7 also shows power generated by the DWTP solar energy system. The corresponding table from fiscal year 2013-2014 is presented for comparison.

Water Distribution

Construction

Construction crews replaced eight 1", eight 1.5" and two 2" service lines throughout the month. Personnel repaired two 6" main lines and replaced an 8" gate valve. Construction staff continued to assist other crews replacing meters and repairing minor leaks when time permitted. Outside contractors were used once during the month.

Hydrant

Crews repaired 19 hydrants. Repairs consisted of cap, O-ring, valve gasket, chain, and coupler repair/replacement. Staff performed one fire flow test at Delta College. Table 2.8 presents a summary of the hydrant maintenance and other duties performed by the crew. In addition, routine maintenance consisting of marker replacement, valve location and weed control continued.

Customer Service

There were 48,754 water meters read for monthly billing. There were 1,183 meters turned-on or locked-off for account openings or closings. Crews responded to 45 high bill complaints. Staff continued to replace broken registers, repair damaged touch-read wires, and respond to various customer inquiries.

Maintenance

Crews responded to 119 service calls consisting of small meter leaks, emergency customer water shut offs, and answering customer water-related questions. Staff replaced 83 small meters ranging from 5/8" to 2" in size. Personnel installed seven new meters for new construction and repaired a 6" main line. Staff assisted construction crews on emergency service line repairs when needed.

Distribution

Staff performed monthly backflow tests/surveys, valve exercising, and air relief valve maintenance. Table 2.9 presents a summary of the valve maintenance program. Staff completed inspection on two new 8" back-flow devices installed at the County Jail. Crews saw an increase in hydrant meter applications as well as underground service alert requests. Monthly bacteriological sampling continued throughout the month.

System Connections

Table 2.10 presents a summary of new meter installations applied to the reading routes. There may be a delay in applying the meter to the route once it has been installed, causing a difference from the actual number of new meter installations. The total number of active meter connections by size is presented in Table 2.11.

Water Quality Inquiries

Table 2.12 presents a summary of water quality inquiries and the corrective measures that were taken to resolve those inquiries. There were no inquiries and no taste/odor, turbidity, or suspended solids complaints.

Customer Services Operations

Table 2.13 presents a summary of the meters read during the month, and the account openings and closings.

Cross Connection Control Program

Table 2.14 presents the number of backflow devices in Stockton's service area and statistics for the number tested, installed, reactivated, and inactivated.

Staff continued cross connection survey efforts to identify and follow-up with water customers who are required to install backflow prevention devices on their water system. As the potential hazards are located, notices are sent, and staff is working to bring them into compliance. Table 2.15 presents the total number of cross connection surveys conducted for the fiscal year-to-date.

Wastewater Treatment

Operational Activities

The Wastewater Treatment Division is responsible for operating and maintaining the Regional Wastewater Control Facility (RWCF). The division is managed by the Deputy Director of Wastewater and consists of 28 employees in Operations and 19 in Maintenance. Operations staff works 24-hours a day, 7-days a week, treating approximately 30 million gallons of sewage a day before it is discharged into the Delta.

Discharge Permit

Staff continues to meet the National Pollutant Discharge Elimination System (NPDES) permit discharge requirements.

Lab results for routine quarterly testing showed toxicity to the water flea, *Ceriodaphnia dubia*. The permit requires accelerated monitoring of four events beginning in July. Operations staff has been coordinating with the Laboratory staff to ensure optimal conditions during this accelerated testing period.

All permit operation and discharge parameters were met with no reportable exceedances occurring. Table 3.1 presents a summary of influent and effluent discharge parameters as comprised with the NPDES permit limits. The Stockton Regional Wastewater Treatment Plant treated an average flow of 25.7 million gallons per day (mgd). Figures 3.A, 3.B, and 3.C are graphical representations of the year-to-date actual values for the flow and loading parameters. Prior year data are also shown for comparison.

Residuals and Chemical Management

Table 3.2 presents a summary of the biosolids processed and disposed for the current month and year-to-date.

Cake Solids

The Belt Filter Press is the wastewater treatment dewatering process that produces sludge cake solids. The sludge cake solids are collected, removed offsite, and applied to agricultural land. Figure 3.D presents actual values for the total percentage of cake solids produced. One of the two Schwing pumps that transport the cake solids has been replaced. Staff recommendation for replacement of the second pump was approved by the City Council this month. One of the two Belt Filter Presses has been rebuilt and Council recently approved a full rebuild of the second press. The new and refurbished presses and pumps will help meet production, improve the operational efficiency of the plant, and reduce sludge hauling and disposal charges.

Odor Control Practices

Bioscrubber air emissions are monitored routinely to ensure compliance with emission standards set by the San Joaquin Valley Air Pollution Control District under the Title V permit. Staff coordinates with Evoqua Water Technologies to determine dosage rates for the hydrogen peroxide addition on a weekly basis. Depending on the weather conditions, dosage rates could be determined twice per week. The proper dosage reduces the hydrogen sulfide and corrosion production in the plant influent wastewater, reducing the odors.

Oxidation Pond Levels

Table 3.3 presents a summary of the Tertiary Pond operating levels. This advanced secondary treatment process provides for increased metal removal from the effluent water, along with operational flexibility and storage capacity. The minimum level of freeboard in the tertiary treatment ponds is a requirement of the plant's NPDES permit and is monitored daily.

Chemical Consumption Summary

Various chemicals are used in the treatment process. Chlorine and aqueous ammonia are used for disinfection. Polymer is used for coagulation to increase the removal of solids in various processes throughout the plant. Sulfur dioxide is used to neutralize the chlorine used to disinfect the effluent prior to discharge to the river thus protecting water quality and wildlife. The sulfur dioxide supplier had production problems and could not consistently meet the moisture content the RWCF requires. Staff has coordinated the installation of a new holding tank and pumps for the use of sodium bisulfite (SBS) in place of sulfur dioxide. Progress is being made on the development of the operating software necessary to control the SBS feed. The first shipment will be ordered once the sodium bisulfite tank and dosing equipment has been programed into SCADA. Sodium hydroxide is used to raise the pH to meet the permit requirements for discharge. Table 3.4 presents a summary of the chemical consumption for the wastewater treatment facilities.

Wastewater Operations and Maintenance Facility Activity

Preventative maintenance work continued at the Main Plant and Tertiary facility to ensure all treatment processes are checked regularly and run properly. Part of those activities is to maintain the cogeneration engines to off-set the amount of power purchased for operations. Table 3.5 summarizes the utility consumption at the RWCF. Table 3.6 provides a breakdown of preventative and corrective maintenance activities at the Main Plant and Tertiary Plant.

Maintenance and repair activities are ongoing, with highlights of recent activities including:

- Performed annual inspections and repairs for primary clarifiers #1 & #3
- Repaired main service air compressors #1 and #2
- Installed replacement metering pump #3 at ferric chloride station
- Repaired Headworks compactor
- Drained, cleaned and inspected secondary sedimentation tank #3
- Repaired Belt Press sludge pump #2
- Replaced Belt Press Muffin Monster #2
- Replace belt #2 and pump #2 for the Gravity Belt Thickener (GBT) belt #2 replaced and pump #2 repaired

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Wastewater Collection Systems

Operational Activities

The primary responsibilities of the Wastewater Collection Systems Division are the maintenance, repair, and response to community concerns as they relate to the sanitary sewer systems within the City of Stockton.

Work orders are generated daily to address routine maintenance issues and public concerns. Each work order is categorized and addressed according to its priority.

Sanitary line maintenance work is driven by the Consent Decree[1] and preventive maintenance activities. The main focus of the daily activities are systematic cleaning of the sanitary system, followed by closed circuit television (CCTV) inspections, and responding to customer issues with the lower lateral.

Sanitary pump station maintenance is focused on repair and rehabilitation of the deteriorating infrastructure and implementing preventive maintenance measures. The current emphasis is on the testing, maintenance, repair, and replacement of air relief valves (ARV).

Regional Water Quality Control Board (RWQCB)

A total of four Sanitary Sewer Overflows (SSOs) occurred. All four were Category 3 SSOs. All pipes and areas affected were cleaned to ensure capture and return of the pollutants to the sanitary sewer system.

Details of the immediately reportable SSOs are listed in Table 4.1, with annual trend comparisons in Figures 4.A through 4.C.

Sanitary Sewer Overflows are categorized as follows:

Category 1 SSO – Discharges of untreated or partially treated wastewater of any volume resulting from a City's sewer system failure or flow condition that:

- Reach surface water and/or reach a drainage channel tributary to a surface water, or
- Reach a Municipal Separate Storm Sewer System (MS4); are not fully captured and returned to the sanitary sewer system; or not otherwise captured and disposed of properly. Any volume of wastewater not recovered from the MS4 is considered to have reached surface water, unless the storm drain system discharges to a dedicated stormwater or groundwater infiltration basin (e.g., infiltration pit, percolation pond).

[1] The Consent Decree is a negotiated settlement with the California Sportfishing Protection Alliance (CSPA). The Consent Decree requires specific maintenance schedules for sewer pipe to reduce sanitary sewer overflows (SSOs).

Category 2 SSO – Discharges of untreated or partially treated wastewater greater than or equal to 1,000 gallons resulting from a City sanitary sewer system failure or flow condition that does not reach surface water, a drainage channel, or the MS4 unless the entire SSO discharged to the storm drain system is fully recovered and disposed of properly.

Category 3 SSO – Category 3 SSOs are all other discharges of untreated or partially treated wastewater resulting from a City sanitary sewer system failure or flow condition.

Activities Summary

Collection System

Collections work included line cleaning, CCTV inspection, main line and lower lateral repair, and preventive maintenance. This work is in accordance with the Consent Decree. SSO records indicate continued problems with lower lateral sections of the City's pipes. Staff has initiated a program to proactively address maintenance issues with the lower laterals. The summary of maintenance work performed is shown in Table 4.2 and a comparative table of prior year activities is also presented for comparison.

Customer Service

Table 4.3 presents a summary of the customer services activities performed. A table of prior year activities is also presented for comparison.

Residuals Management

Table 4.4 presents a summary of spoils activities (material taken to a dumpsite) in the repair and maintenance of the stormwater and wastewater pumping stations, and the RWCF. Data is gathered on how many loads of spoils are removed from the plant site, and the tonnage of all the loads hauled.

Odor Control Program

MUD continued the odor and corrosion control pilot project on sanitary systems 7 & 8. There was one odor complaint this month. In the event there is an odor complaint, staff investigates to confirm if the odor complaint is associated with the City's sanitary sewer system and identify specific pipeline segments where the odors are coming from.

Pumping Facilities

Preventive maintenance on the sanitary stations continued. Pump impeller inspection and pump housing de-ragging continued at various sanitary sewer stations on a daily basis to keep the stations operating efficiently. Table 4.5 and 4.6 summarizes collection systems pump station maintenance activities.

In addition, the following work was performed:

- Manhole #1 at the Smith Canal sanitary station was completed
- The air scrubber fan at the Brookside Estates sanitary station was repaired
- The #2 water pump seal at the Smith Canal sanitary station was rebuilt
- The overhead crane at the Brookside Estates sanitary station was repaired with new wheels and rails.

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Environmental Control

Operational Activities

The Environmental Control Division (EC) is tasked with the responsibility of protecting the City's wastewater collection system, treatment plant, and biological treatment processes from interference, pass-through, and sludge contamination. This is accomplished through a system of permitting, monitoring, and enforcement of regulated sewer dischargers. Permitted users include significant industrial dischargers, categorical industrial users, groundwater remediation project discharges, and hauled waste discharges.

Staff conducts inspections, takes samples of wastewater, reviews self-monitoring reports, writes permits, and enforces permit requirements as specified in Stockton Municipal Code, Chapter 13.08 (Pretreatment Ordinance).

Staff is also tasked with implementing the Fats, Oils, and Grease (FOG) Control Program. This program involves inspecting all food service establishments in the City's sewer service area to ensure compliance with Stockton Municipal Code Chapter 13.40 (FOG Control Ordinance).

Staff responds to stormwater illicit discharge complaints and hazardous material spills, which potentially threaten the City's stormwater collection system and receiving waters. These responses are required to ensure public safety, environmental protection, and compliance with Stockton Municipal Code Chapter 13.16 (Stormwater Ordinance).

Reports/Statistics

Table 5.1 represents statistics of all pretreatment, waste hauler, stormwater, and FOG Program activities on a monthly basis. Some items reflect the previous month’s data due to the timing of when the data is received.

There were five pretreatment enforcement actions, no stormwater complaints, and no stormwater enforcement actions.

There was a decrease to FOG initial inspections while follow-up inspections slightly increased in comparison to last month.

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Laboratory

Operational Activities

The Laboratory Division collects and analyzes samples for National Pollutant Discharge Elimination System (NPDES) permit compliance for the Wastewater Division, and analyzes and oversees contract lab analyses for Title 22 compliance for the Water Division. The Laboratory is accredited under California Department of Health Services, Environmental Laboratory Accreditation in five different fields of testing. Those fields are: microbiology of water, microbiology of wastewater, inorganic chemistry of drinking water, inorganic chemistry of wastewater, and whole effluent toxicity of wastewater. The staff consists of the laboratory supervisor, a microbiologist (position is currently vacant), two chemists, and three laboratory technicians (one position is currently vacant).

Wastewater Sampling and Analyses

Effluent Weekly Acute Static-renewal Toxicity Testing with Rainbow Trout

The monthly test had 100% survival of Rainbow Trout. Results are shown in Table 6.1. Analyses were done by Pacific EcoRisk Laboratory (PERL).

Effluent Quarterly Chronic 3-Species Toxicity Testing – Accelerated Testing

Routine quarterly testing done in June showed toxicity to the reproduction of the water flea: *Ceriodaphnia dubia*. No toxicity was shown to the fish or algae. Accelerated monitoring for 4 events will began later in June for *C. dubia*. Results of all of the initial chronic testing are shown in Tables 6.2, 6.3, and 6.4.

Effluent Ammonia Testing

The Waste Discharge Requirements (WDR) contains a requirement to monitor the treatment plant effluent three times a week. For June, the permit contains limits of monthly average (1.2 mg/L) and daily maximum (4.0 mg/L) requirements. There were no daily maximum limit exceedances as shown on Table 6.5. The monthly average was < 0.8 mg/L, the monthly maximum was 1.5 mg/L.

Drinking Water Sampling and Analysis

Routine domestic water quality for finished water and raw water wells was completed. The annual T22 testing on the Delta source, the WID source and Finished Water for DWTP was done in June. No results exceeded regulatory limits.

Laboratory Operations

The lab analyzed 769 samples for 2724 analyses. Contract labs analyzed 198 samples for 438 analyses. Figures 6.A and 6.B display the results of the samples and analyses. Figure 6.C shows the number of samples processed for permit compliance, process control (plant performance), and drinking water regulatory compliance. There were 151 samples for NPDES Permit compliance; 308 samples for process control, and 310 samples for drinking water compliance.

The lab continues to provide on-going support for additional sampling and analyses to a consultant working on Wastewater permit compliance items.

The laboratory staff welcomed a new Laboratory Supervisor mid-month.

Engineering

Operational Activities

The primary responsibilities of the Engineering Division are management and execution of the Department's Capital Improvement Program (CIP) and Development Services.

Development-related submittals are received daily from Public Works, Community Development, other City Departments, and government agencies. The submittals, collectively called "development reviews," encompass environmental documents, fiscal impact analysis reports, feasibility analyses, utility master plans, engineering reports, improvement plans, permit applications, tentative subdivision maps, and parcel maps. Development reviews are assigned to individual engineers within the Engineering Division with specific completion dates.

The Department's CIP consists of the master planning, budgeting, design, competitive bidding, and construction management of capital improvement projects involving water, sanitary sewer, storm drainage, and nonpotable water. Engineering offers the full array of CIP services, including computer-aided design and drafting, modeling, and construction administration and inspections.

Figure 7.A represents the number of development submittals received and completed on a weekly basis. The amount of development reviews received in a particular week may not coincide with the number completed in the same week because of differing complexities and review times required for the submittals. There were 16 development reviews received and 10 completed and returned. In calendar year 2014, 134 development reviews were completed.

Development Review Projects

Short descriptions of the development reviews received this month are as follows:

- Improvement Plans – The Palms at Morada
- Improvement Plans – Union Pacific Railroad Stockton-Port Interchange
- Improvement Plans – Stockton Metropolitan Airport
- Improvement Plans – Cal-Weber 528 E Weber Street/24 & 26 N California Street
- Temporary Parcel Map – 2081 Dr. Martin Luther King Jr. Boulevard
- Use Permit – 1609 N Wilson Way
- Use Permit – 1404 S Fresno Avenue
- Storm Water Quality Control Criteria Plan –7810 Girardi Way – 1st submittal
- Storm Water Quality Control Criteria Plan – 2717 Auto Center Circle – 1st submittal
- Storm Water Quality Control Criteria Plan – 7810 Girardi Way – 3rd submittal

- Storm Water Quality Control Criteria Plan – 2717 Auto Center Circle – 4th submittal
- Storm Water Quality Control Criteria Plan –1664 East March Lane
- Storm Water Quality Control Criteria Plan – 528 E Weber Street/ 24 & 26 N California Street
- Storm Water Quality Control Criteria Plan –1638 E Fremont Street
- Storm Water Quality Control Criteria Plan –The Palms at Morada
- Storm Water Quality Control Criteria Plan –1700 Porter Way

Figure 7.B represents the number of development reviews received and completed since the start of the 2014-2015 fiscal year.

Capital Improvement Project Milestones

The Engineering Division has 52 budgeted CIPs in Fiscal Year 2014-2015. Table 7.1 is a graphic summary of the most active, current CIPs.

Upcoming and completed milestones for a few, select CIP projects are listed below with an updated status for each project.

Capital Improvement and Energy Management Plan EIR (M12019)

Robertson Bryan, Inc. is in the process of including the Nitrate permit requirement into the environmental impact report (EIR). The preparation of the EIR is temporarily on hold pending procurement efforts for the Design Build firm to perform the work contained in the Capital Improvement and Energy Management Plan (CIEMP).

Request for Qualifications (RFQ's) were issued for Progressive Design-Build Services for the Regional Wastewater Control Facility Project on January 20, 2015. This is the first step in the procurement process leading to a contract later this year to design and construct wastewater treatment plant projects identified in the 2011 CIEMP. Statements of Qualifications were received on March 5, 2015, and have been reviewed. A Request for Proposals was issued on May 8, 2015 to four shortlisted firms and proposals are due on July 23, 2015.

CAT Engine Replacement – Phase I & II (M08001)

Small engines and generators have been removed. The motor control center for the electric motor has been fabricated. Electric motors for Water Well 25 are currently being installed. PG&E has notified individuals affected by the removal of the existing transformer at Well 25. The transformer switch at Water Well 25 was successfully completed on March 30, 2015. PG&E's negotiation with East Bay MUD for right-of-way has been completed. PG&E is revising the plans to provide electrical service to Well 26 to incorporate the necessary changes.

Feather River Water Main Crossing at 14-Mile Slough (M07056)

The permit application has been submitted to the Central Valley Flood Protection Agency (CVFPA); and the plans and specifications are 100% complete. CVFPA is awaiting additional information to issue permit.

Highway 99 at Farmington Fresh Sewer Replacement (M14034)

The project is in the design phase.

Pershing Sewer Crossing at the Calaveras River (M13005)

The design phase is nearing completion; the environmental documents are still in a draft state. Construction for the project has been moved to the Fiscal Year 2016-2017.

RWCF Headworks Rehabilitation (M13007)

The design contract is currently on hold pending the Progressive Design Build procurement effort.

Rehabilitate Don Avenue and Thornton Road Sanitary Pump Stations (M13009 & M13010)

The designs are 100% complete. Plans have been received from the consultant; specifications are being prepared and internal review being performed prior to project bidding.

Smith Canal Sanitary Sewer Pump Station – Wet Well (M09093)

The project is substantially complete and the City has taken beneficial occupancy as of April 24, 2015. Maintenance hole #1 has been completed and project closeout is in progress.

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Stormwater

Operational Activities

The Stormwater Division is responsible for ensuring compliance with the City's municipal Stormwater National Pollutant Discharge Elimination System (NPDES) permit. The NPDES program is mandated by the Federal Clean Water Act, and administered in California by the State Water Resources Control Board and the Regional Water Quality Control Boards (RWQCB) on behalf of the U.S. Environmental Protection Agency (USEPA). The primary goals of the program are water quality protection and to improve local water quality to the maximum extent practical.

Activities of the Stormwater Division include permit mandated programs and activities; collection system inspection, maintenance and repair; catch basin inspection and cleaning; pump station repair, maintenance and rehabilitation; and response to community concerns as they relate to the stormwater systems within the City of Stockton. With limited resources, it can be difficult to meet the maintenance needs of the aging stormwater infrastructure. On average, 50% of stormwater pump station's wet wells are cleaned annually. Preventive maintenance measures are used to identify the most urgent areas. Closed Circuit Television (CCTV) inspection of the discharge lines from each station has commenced and will continue at the request of San Joaquin County Flood Control.

The City's storm drain system collects water from numerous nonpoint sources (i.e., water pollution that cannot be attributed to a discernible source; and excess fertilizers, oils, grease, and other pollutants on the ground that are transported by stormwater) that discharge into local waterways and into the Delta. The City complies with the requirements of its NPDES permit by implementing various stormwater pollution prevention activities, including:

- Ensuring pollutants stay out of the storm drain system, creeks, and the Delta
- Managing and enforcing the City's Municipal Code to minimize stormwater impacts
- Requiring new development projects mitigate any impacts to the stormwater system
- Requiring development projects incorporate various structural and non-structural control measures, commonly referred to as Low Impact Development features, where feasible to restore the natural hydrological watershed processes (i.e., infiltration), such as treatment of stormwater prior to discharge offsite and/or detain stormwater prior to discharge to protect waterways from increased flows throughout the anticipated life span of the developed site.
- Promoting pollution prevention awareness
- Education Programs and outreach to the public

- Supporting local nonprofit creek groups
- Inspecting businesses to ensure responsible stormwater-related practices
- Investigating and responding to illicit discharges

Stormwater System

There were five storm drain catch basin grates stolen in June. Since the beginning of fiscal year 2014-2015, there have been 175 grates stolen. The City continues to seek ways to prevent additional thefts of these grates. Police reports are filed for each location of the stolen grates.

The downtown business area is being inspected monthly and cleaning of the areas surrounding the catch basins completed on as-needed basis to minimize trash and debris entering the storm system.

Table 8.1 presents a summary of the stormwater system maintenance and repair activities. A table of prior year activities is also presented for comparison.

Pumping Facilities

In addition to the regular preventive maintenance activities at the storm stations, the following repairs were made.

- The compressor at the Plymouth storm station was repaired
- The new pump for the Somerset storm station has been received and is being prepared for the installation.
- Alarm systems continue to be added to storm stations, as needed, to prevent future theft and vandalism. We are experiencing very costly monetary loss at our stations from theft and vandalism. Theft at pump systems has reached levels that budgetary adjustments are necessary.

Permit Compliance

Staff continues to participate in meetings hosted by RWQCB staff on the possible future shift in program structure to a Central Valley Region-Wide Stormwater NPDES Permit. This “interim” permit adopted by the RWQCB on April 17, 2015 allows the City to participate in the Delta Regional Monitoring Program in lieu of some current water sampling/monitoring requirements of the former permit. Staff worked this month on the development of a proposed Alternative Monitoring Plan. This “Interim” permit would remain in effect until the language of a new regional permit can be fully drafted and negotiated.

Stormwater Inspections

Inspections of construction sites continue to be a priority for the City of Stockton. There were 16 Stormwater inspections conducted at active construction sites. There were five Verbal Warnings, two Correction Orders, and three Notices to Clean, no Notices of Violations, no Administrative Citations, and no Referrals were sent to Regional Water Quality Control Board during this period.

Inspections of industrial, commercial facilities and residential complaints and field observation resulted in eight Violation Warning Notices, and three Administrative Citations issued.

Outreach and Education

Various outreach and educational programs are promoted by staff to improve stormwater (i.e., water quality) awareness in the community. Staff attended and provided outreach materials at the following community events in May 2015: Stockton Ports Baseball games; State of the City; and San Joaquin County's Senior Awareness Day.

Table 8.3 illustrates the number of impressions and the venue used as part of these outreach efforts, with a table of last year for comparison.

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Administration

Operational Activities

The Administration division is responsible for the overall operation of the Municipal Utilities Department, including personnel, purchasing, public outreach, health and safety, regulatory compliance, finance, budgeting, and accounts payable.

Health and Safety

The Health and Safety program monitors the training and safety activities of the Department. Unsafe conditions, unsafe activities by staff or contractors, and accidents are tracked and reported according to Cal/OSHA guidelines. Table 9.1 provides a summary of unsafe conditions or acts that occurred during the month, along with a running total for the year. Table 9.2 provides information on work-related injuries and illnesses. This is a continuously evolving program that responds to the needs of staff to work in a safe and accident free environment. It is important to note that Cal/OSHA requires reporting on a calendar year. All statistics and data noted for the Health and Safety program are from January through December.

To promote safe work habits and to comply with Cal/OSHA requirements, regular tailgate safety meetings are held in all divisions. Topics vary depending on the needs and work requirements of each division. Specialized training is also provided to ensure that proper work habits and techniques are used in all work situations. Table 9.3 provides a summary of the tailgate and specialized training provided.

Safety Activities

The following safety activities occurred during the month: no unsafe conditions, no vehicle accidents reported, and two work-related injuries.

A total of 438 safety-training hours were provided to staff through tailgate sessions and specialized training.

Human Resources

Staffing Activities

Recruitment activities continue on an ongoing basis to fill vacated and recently approved positions. MUD is currently staffed at 196 of the approved 217 positions. Table 9.4 presents the staffing changes by division.

The status of various positions attempted to be filled is shown below.

Positions in Active Recruitment / Background Check / Civil Service Commission

- Senior Buyer (pre-employment process)

- Senior Civil Engineer (pre-employment process)
- Plant Maintenance Mechanic (pre-employment process)
- Electrical Technician II (active recruitment)

Positions Filled / Department Transfer

- Laboratory Supervisor
- Senior Civil Engineer
- Water Systems Operator

Resignations / Separations / Retirements

- Deputy MUD Director/Wastewater
- Electrical Technician II (2)
- Plant Maintenance Worker

Overtime Tracking

Overtime hours are tracked as part of the Department's internal monitoring. This information helps determine if the Department is at appropriate staffing levels, and where and when work demand is spiking. Because of the 24-hour shift work at the RWCF, overtime is expected to spike during holidays, closed days, and vacations to maintain adequate staffing for operations.

Table 9.5 details the overtime hours for each division to-date. For comparison, the total overtime hours for Fiscal Year 2013-2014 are also shown below Table 9.5. Overtime decreased from the previous month.

Regulatory Compliance

The Regulatory Compliance Officer is responsible for assisting all Municipal Utilities Department divisions in achieving general compliance with local, state, and federal regulations originating from the Federal Clean Water Act, the Federal Safe Drinking Water Act, the Federal Clean Air Act, the Federal Resource Conservation and Recovery Act, and associated environmental laws. The Regulatory Compliance Officer coordinates with all local, state, and federal regulators, and MUD divisions, as well as other City of Stockton departments to accomplish environmental compliance across the wastewater, drinking water, and stormwater utilities.

Inspections/Report Submissions

The San Joaquin Valley Air Pollution Control, Title V Flare Minimization plan was submitted on June 30.

Facility Tours

There were no tours of the RWCF and Tertiary Plant.

There were no tours of the Wetlands.

Reference

Tables and Figures

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Water Resources

Table 1.1 – Water Waste Complaints

.Water Conservation	Month-to-Date			Fiscal Year-to-Date
	New	Open	Closed	Completed
Complaints				
Broken Sprinklers / Irrigation Leaks/ Other Leaks	44	4	40	210
Over-irrigation / Water Run-off	127	6	121	611
Watering during Restricted Hours	10	0	10	59
Watering on a Restricted Day	181	19	162	178
Invalid/Unable to Verify	11	0	11	64
Other Conservation Calls	21	3	18	26
Totals	394	32	362	1148
Pool Filling or Drain and Refill	27	0	27	74
Totals	421	32	389	1222

Table 1.2 – Water Conservation Outreach

Description	Type	Date(s)	Impressions
Stockton.watersavingplants.com	Website	June	737
Utility Bill Insert	Print Media	June	53,139

Table 1.3 – Water Conservation Surveys

Survey Type	Requested / Pending	Completed
In-Home Single Family	0	0
In-Home Multi-Family	0	0
REACON Business	0	0
Self-Certified Surveys	0	0
Other	0	0
TOTAL	0	0
FY-to-Date	111	369

Table 1.4 – Water Saving Devices

Device Description	Quantity Distributed	Fiscal Year-to-Date
Low Flow Showerhead	0	798
Low Flow Faucet Aerators	0	1,185
Toilet Flapper	0	618
Leak Detection Tablet Packets	0	547
Positive Shut-off Hose Nozzles	50	598
Water-efficient Plant Seed Packets	0	0
TOTAL	0	3,696

Table 1.5 – HET Direct Install Program

Device Description	Devices Installed	Water Savings (in Acre Feet)
High Efficiency Toilet (Commercial)	0	0
TOTAL	0	0
*FY-to-Date	2	0
Program-to-Date (since February 2010)	394	364.167

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Water Treatment, Production, and Distribution

Table 2.1 - Summary Coliform Monitoring

Routine Samples	*# Required*	*# Taken*	*Total Coliform Positive*	*E. Coli Positive*
North System	151	151	0	0
Walnut Plant	1	1	0	0
South System	30	30	0	0

Table 2.2 – Well Operational Status

Well #	*Well Station Location*	*DPH In Service Status*			*Well Status if Limited Use or Not Available for Operation*				*Emergency Use Only*
		Active	*Stand-by*	*Inactive*	*Exceeds Sec MCL*	*Arsenic*	*Bacti*	*Mechanical*	
NORTH WELL SYSTEM									
1	Parkwoods		**X**		**X**		**X**		
4	Villa Dorado		**X**		**X**				
7	Galloway	**X**					**X**		
9	Don Carlos			**X**			**X**		
10R	Valverde Park	**X**							
11	Inglewood		**X**		**X**				
15	Glasgow		**X**		**X**				
16	Royal Oaks		**X**		**X**				
18	Hickock	**X**							
19	Morada/West Ln	**X**							
20	West Ln/Mosher	**X**							
21	Cortez Park	**X**							
24	Saffron	**X**			**X**				
25	Panella Park	**X**							
26	Auto Center		**X**				**X**	**X**	
27	Horse Park	**X**							
28	Blossom Ranch	**X**					**X**		
29	Baxter Park	**X**							
30	Grider	**X**							
31	Ivano Ln	**X**							
32	Hwy 99 Frontage	**X**							
33 (3-R)	West Ln @ WFO	**X**							
NWR	Northwest Reservoir	**X**							
14 Mile	14 Mile Reservoir	**X**							
SOUTH WELL SYSTEM									
SS1	Qantas	**X**							
SS2	N Arch Frontage	**X**							
SS3	Frontier	**X**							
SS4	Airport South			**X**		**X**			
SS5	Airport North			**X**	**X**				
SS8	Shropshire Park	**X**							
SS9	B St & Littlejohn	**X**							
WSTN	Weston Ranch Res	**X**							
SSA	South Sys Aqueduct	**X**							
INTERCONNECTIONS									
Cal Wtr	Airport Wy/Industrial	X							X
Cal Wtr	Airport/Sperry	X							X
Cal Wtr	El Dorado (S of March)	X							X
Cal Wtr	Filbert/Marsh	X							X
Cal Wtr	Filbert/Miner	X							
Cal Wtr	Diamond/Charter	X							
Cal Wtr	El Dorado (March/Pardee)	X							X
Cal Wtr	Pershing/Longview	X							X
Cal Wtr	Zephyr (Future/not connected)			X					-
Lathrop	Roth/Harlan	X							X
SJ Cty	Balboa	X							
SJ Cty	Greeley Wy/Lincoln	X							
SJ Cty	Swain/Grigsby Pl	X							X
SJ Cty	Pershing/Lincoln Rd	X							X
SJ Cty	Hammer / Misty Ln	X							X
SJ Cty	Pershing Av (S of Ben Holt)	X							
SJ Cty	Plymouth Rd/Rutledge	X							
SJ Cty	Portola Av	X							
SJ Cty	Thornton Rd	X							

Table 2.3 – Production Summary (in Million Gallons)

	System	July	Aug	Sept	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	June	Year to Date
	No. Sys	364.30	288.40	106.61	29.36	25.70	16.41	33.36	138.20	168.71	241.19	162.68	161.99	1,736.91
	So. Sys	25.91	5.04	6.71	3.59	2.43	1.93	5.45	11.12	61.99	58.40	42.97	48.36	273.90
	DWTP	429.95	450.92	498.64	413.89	281.88	251.73	220.93	159.20	300.63	297.52	525.22	659.16	4,489.67
	SEWD WP	8.75	6.84	6.19	6.98	4.90	4.08	3.81	3.20	4.44	4.56	5.27	5.74	64.77
	SEWD/North	261.73	251.05	307.36	375.75	182.56	101.93	84.08	34.94	28.19	39.85	19.70	0.00	1,687.14
	SEWD/South	207.73	206.17	181.07	155.11	103.50	91.17	79.77	72.11	53.87	73.80	63.13	0.00	1,287.43
	Total	**1,298.37**	**1,208.42**	**1,106.58**	**984.68**	**600.97**	**467.25**	**427.40**	**418.77**	**617.83**	**715.32**	**818.97**	**875.25**	**9,539.82**

Production Summary Comparison Year 2013-2014 (in Million Gallons)

	System	July	Aug	Sept	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	June	Year to Date
	No. Sys	109.73	143.98	105.76	95.43	30.21	30.59	130.57	78.35	186.28	112.03	428.39	463.28	1,914.60
	So. Sys	6.85	0.90	0.15	0.16	0.05	0.03	0.04	0.04	0.02	0.99	40.34	38.23	87.80
	DWTP	627.62	461.01	439.09	492.67	416.91	304.96	186.93	78.38	66.96	75.52	134.50	257.60	3,542.15
	SEWD WP	9.44	8.26	8.63	8.12	7.31	6.18	6.15	5.02	5.40	6.09	8.13	7.95	86.68
	SEWD/North	522.43	477.42	444.09	246.05	144.72	118.10	164.21	198.96	217.79	412.76	289.64	295.96	3,532.13
	SEWD/South	241.09	230.24	217.44	211.17	145.24	79.72	76.22	87.29	108.72	130.17	151.07	184.73	1,863.10
	Total	**1,517.16**	**1,321.81**	**1,215.16**	**1,053.60**	**744.44**	**539.58**	**564.12**	**448.04**	**585.17**	**737.56**	**1,052.07**	**1,247.75**	**11,026.46**

	City North System Wells
	City South System Wells
	Delta Water Treatment Plant (DWTP)
	MLK Diamond & Filbert Interconnect (SEWD) City Walnut System
	Stockton East Water District (SEWD) City / County North System
	Stockton East Water District (SEWD) City South System

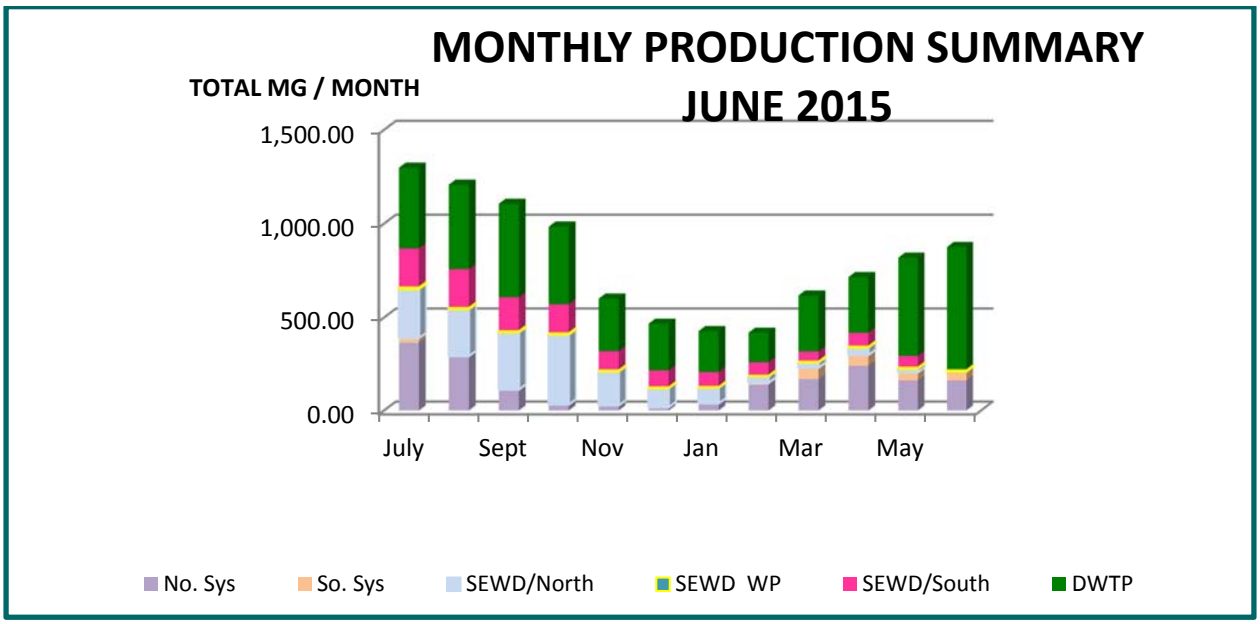
Table 2.3A – DWTP Influent by Water Source (in Million Gallons)

DWTP Influent by Source	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	YTD
San Joaquin River/Delta	199.02	137.05	85.12	169.66	217.11	182.57	152.66	112.39	33.76	-	88.31	259.47	1,637.11
Mokelumne River/WID	151.90	262.42	372.32	204.53	-	-	-	-	242.65	282.75	411.47	316.15	2,244.18
Total Influent (DWTP)	350.92	399.47	457.44	374.19	217.11	182.57	152.66	112.39	276.41	282.75	499.78	575.61	3,881.29

DWTP Influent by Water Source Year 2013-2014 (in Million Gallons)

	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	YTD
DWTP Influent by Source													
San Joaquin River/Delta	0.00	259.69	423.98	493.08	448.68	304.46	186.92	70.91	8.39	0.00	1.65	199.00	2,396.76
Mokelumne River/WID	631.47	287.81	15.65	0.00	0.00	0.00	0.00	0.00	59.67	71.72	127.52	151.90	1,345.74
Total Influent (DWTP), MG	631.47	547.50	439.63	493.08	448.68	304.46	186.92	70.91	68.06	71.72	129.17	350.90	3,742.50

Figure 2.A – Production Summary



Production Summary Comparison Year 2013-2014

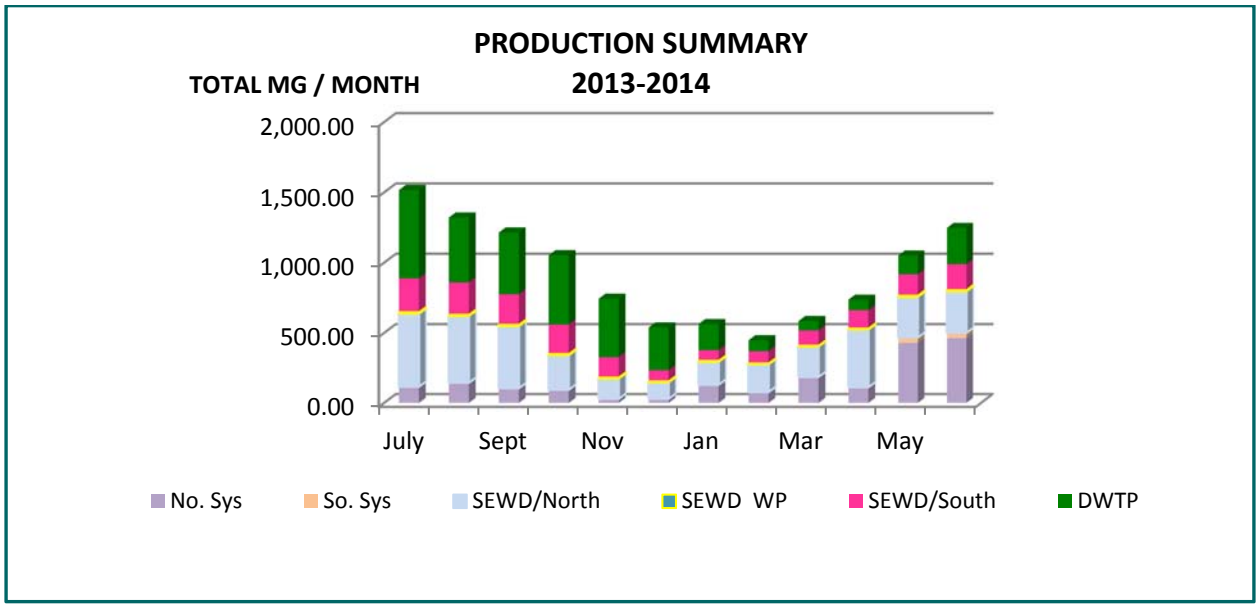


Table 2.4 – City of Stockton Water Systems –Production Summaries

PRODUCTION (Million Gallons)	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	YTD
City System Potable Water Production													-
City North System Wells	364.30	288.40	106.61	29.36	25.70	16.41	33.36	138.20	168.71	241.19	162.68	161.99	1,736.91
City South System Wells	25.91	5.04	6.71	3.59	2.43	1.93	5.45	11.12	61.99	58.40	42.97	48.36	273.90
Delta Water Treatment Plant	429.95	450.92	498.64	413.89	281.88	251.73	220.93	159.20	300.63	297.52	525.22	659.16	4,489.67
MLK Diamond & Filbert Interconnect (SEWD) City Walnut System	8.75	6.84	6.19	6.98	4.90	4.08	3.81	3.20	4.44	4.56	5.27	5.74	64.76
Stockton East Water District (SEWD) City/County North System	261.73	251.05	307.36	375.75	182.56	101.93	84.08	34.94	28.19	39.85	19.70	-	1,687.14
Stockton East Water District (SEWD) City South System	207.73	206.17	181.07	155.11	103.50	91.17	79.77	72.11	53.87	73.80	63.13	-	1,287.43
Total City System	1,298.37	1,208.42	1,106.58	984.68	600.97	467.25	427.40	418.77	617.83	715.32	818.97	875.25	9,539.81
System - Nonpotable Water Production													-
Recycle Water (Reclaimed WW)	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Production	1,298.37	1,208.42	1,106.58	984.68	600.97	467.25	427.40	418.77	617.83	715.32	818.97	875.25	9,539.81

2013-2014 –Production Summaries

	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	YTD
Production													
City System Potable Water Production													
City North System Wells	109.73	143.98	105.76	95.43	30.21	30.59	130.57	78.35	186.28	112.03	428.39	463.28	1,914.60
City South System Wells	6.85	0.90	0.15	0.16	0.05	0.03	0.04	0.04	0.02	0.99	40.34	38.28	87.85
Delta Water Treatment Plant	627.62	461.01	439.09	492.67	416.91	304.96	186.93	78.38	66.96	75.52	134.50	257.60	3,542.15
MLK Diamond & Filbert Interconnect (SEWD) City Walnut System	9.44	8.26	8.63	8.12	7.31	6.18	6.15	5.02	5.4	6.09	8.13	7.95	86.68
Stockton East Water District (SEWD) City/County North System	522.43	477.42	444.09	246.05	144.72	118.1	164.21	198.96	217.79	412.76	289.64	295.96	3,532.13
Stockton East Water District (SEWD) City South System	241.09	230.24	217.44	211.17	145.24	79.72	76.22	87.29	108.72	130.17	151.07	184.73	1,863.10
Total City System, MG	1,517.16	1,321.81	1,215.16	1,053.60	744.44	539.58	564.12	448.04	585.17	737.56	1,052.07	1,247.80	11,026.51
System - Nonpotable Water Production													
Recycle Water (Reclaimed WW) Million Gallons	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Production	1,517.16	1,321.81	1,215.16	1,053.60	744.44	539.58	564.12	448.04	585.17	737.56	1,052.07	1,247.80	11,026.51

Table 2.5 – City of Stockton Water Systems –Consumption Summaries

PRODUCTION (Million Gallons)	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	YTD
City System - Metered Consumption													-
Single Family Residential	603.59	728.00	618.57	517.05	453.92	334.99	277.93	264.30	284.16	385.28	379.46	N/A	4,847.25
Multi-family Residential	87.12	106.45	93.51	84.49	67.05	69.48	66.35	60.60	63.59	74.57	70.33	N/A	843.54
Commercial/Institutional	170.42	186.44	177.64	137.48	104.70	79.15	64.73	61.62	73.94	104.61	102.46	N/A	1,263.19
Irrigation	165.66	189.96	164.21	111.49	69.36	26.79	10.17	15.04	24.14	67.50	80.23	N/A	924.55
Non-potable Water	-	-	-	-	-	-	-	-	-	-	-	-	-
Const/Hydrant/Jumpers/Load Counts	0.51	0.37	0.21	0.85	0.12	0.01	0.08	0.02	0.10	0.88	0.12	0.29	3.56
Other (Industrial)	22.12	21.19	21.28	20.44	18.28	20.09	18.40	16.93	19.69	22.43	16.90	N/A	217.75
Subtotal Metered	1,049.42	1,232.41	1,075.42	871.80	713.43	530.51	437.66	418.51	465.62	655.27	649.50	0.29	8,099.84
City System - Unmetered Consumption													-
Main Line / Service Repair Losses	0.33	0.14	0.42	0.55	0.99	0.64	0.14	0.18	0.15	0.56	0.17	0.38	4.65
Commercial/Residential Construction	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.12
Sweepers	0.25	0.28	0.08	0.36	0.06	0.20	0.15	0.31	0.11	0.32	0.21	0.21	2.54
Hydrant / Blow-off Flushing	0.03	0.01	0.01	0.37	0.02	0.03	0.36	0.02	0.04	0.42	0.05	0.03	1.39
System Flushing	-	-	-	-	(112.39)	-	-	-	-	-	-	-	(112.39)
City Fire Dept. Fire Flow	0.01	0.01	0.01	0.01	0.01	0.02	0.01	0.01	0.01	0.01	0.01	0.01	0.13
City Fire Dept. Training/Equip Testing	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.12
Subtotal Unmetered	0.64	0.46	0.54	1.31	(111.29)	0.91	0.68	0.54	0.33	1.33	0.46	0.65	(103.44)
Total City System	1,050.06	1,232.87	1,075.96	873.11	602.15	531.42	438.34	419.05	465.95	656.60	649.96	0.94	7,996.41
Water Wheeled & Wholesaled (S J County Interconnects)													
Metered to San Joaquin County	74.64	69.07	55.44	49.31	33.15	21.69	28.26	24.77	41.59	27.24	48.82	50.06	524.04
Total Wheeled & Wholesaled	74.64	69.07	55.44	49.31	33.15	21.69	28.26	24.77	41.59	27.24	48.82	50.06	524.04

2013-2014–Consumption Summaries

	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	YTD
City System - Metered Consumption													
Single Family Residential	766.23	709.65	727.39	589.07	538.21	384.65	320.52	301.49	316.70	316.36	432.95	594.38	5,997.60
Multi Family Residential	108.23	93.47	100.47	87.26	81.40	67.89	66.49	62.22	73.46	64.54	78.13	85.76	969.32
Commercial/ Institutional	206.36	184.27	189.90	163.73	114.10	86.51	72.15	78.51	80.10	81.26	121.51	152.30	1,530.70
Irrigation	192.01	175.09	181.78	132.48	94.95	43.36	20.75	32.13	28.27	41.70	89.35	142.63	1,174.50
Non-Potable Water	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Construction / Hydrant / Jumpers / Load Counts	1.34	1.02	0.57	0.15	0.23	0.36	0.07	0.00	0.00	0.02	0.02	1.25	5.03
Other (Industrial)	18.13	17.77	16.05	15.49	13.46	12.49	13.46	12.66	16.28	19.00	19.31	19.77	193.87
Subtotal Metered Consumption, MG	1,292.30	1,181.27	1,216.16	988.18	842.35	595.26	493.44	487.01	514.81	522.88	741.27	996.09	9,871.02
City System - Unmetered Consumption													
Main Line / Service Repair Losses	0.10	0.07	0.08	0.05	0.19	0.05	0.04	0.04	0.03	0.08	0.03	0.26	1.02
Commercial / Residential Construction Usage	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.12
City Trucks / Parks Trucks / St. Sweepers	0.40	0.33	0.43	0.36	0.16	0.09	0.10	0.08	0.06	0.14	0.31	0.27	2.73
Hydrant / Blow Off Flushing	0.01	0.02	0.01	0.30	0.05	0.01	0.32	0.14	0.12	0.13	0.15	0.01	1.27
System Flushing	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
City Fire Dept. Fire Flow	0.01	0.01	0.01	0.01	0.01	0.01	0.02	0.01	0.01	0.01	0.01	0.01	0.13
City Fire Dept. Training / Equip. Testing	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.12
Subtotal Unmetered Consumption, MG	0.54	0.45	0.55	0.74	0.43	0.18	0.50	0.29	0.24	0.38	0.52	0.57	5.39
Total City System Consumption, MG	1,292.84	1,181.72	1,216.71	988.92	842.78	595.44	493.94	487.30	515.05	523.26	741.79	996.66	9876.41
Water Wheeled and Wholesaled (SJ County Interconnects)													
Metered to San Joaquin County	90.17	89.50	69.85	61.39	44.07	30.43	34.59	25.11	32.72	40.49	64.78	145.31	728.41
Total Wheeled and Wholesaled	90.17	89.50	69.85	61.39	44.07	30.43	34.59	25.11	32.72	40.49	64.78	145.31	728.41

Table 2.6 – Chemical Consumption Summary

Water Production System	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	YTD
North Wells													-
Chlorine Gas, Lbs.	1,576.00	1,576.00	1,033.00	882.00	588.00	519.00	567.00	680.00	931.00	783.00	865.00	1,015.00	11,015.00
South Wells													-
Chlorine Gas, Lbs.	249.00	129.00	131.00	118.00	75.00	141.00	212.00	173.00	394.00	261.00	303.00	301.00	2,487.00
Delta Water Treatment Plant													-
Liquid Oxygen, Gal.	14,864.40	6,696.00	4,680.00	4,953.60	97.20	5,234.40	7,502.40	4,244.40	554.40	327.60	356.40	356.40	49,867.20
Sodium Hypochlorite, Gal.	27,917.68	24,415.56	22,439.10	18,689.86	14,856.70	15,516.90	10,068.60	7,978.98	9,664.68	15,014.02	16,213.70	16,852.88	199,628.66
Sodium Hydroxide (Caustic Soda), Gal.	22,945.86	20,772.01	8,169.47	12,496.55	18,563.15	18,553.60	14,686.10	5,940.82	1,861.20	1,429.17	3,388.58	5,437.93	134,244.44
Aluminum Chlorohydrate (ACH), Gal.	3,671.64	4,060.80	2,639.52	5,778.18	5,964.30	9,449.82	10,625.80	7,859.34	5,084.46	2,639.52	5,964.30	12,876.12	76,613.80
Corrosion Inhibitor, Gal	759.29	801.59	812.16	621.81	433.58	-	-	-	444.15	700.07	48.65	71.91	4,693.19
Citric Acid, Gal.	53.60	74.40	73.60	70.40	77.60	60.80	65.60	69.60	30.40	94.40	98.40	104.80	873.60
Sulfuric Acid, Gal.	96.80	128.00	131.20	116.80	77.60	64.00	69.60	55.20	82.40	84.00	132.80	147.20	1,185.60
Sodium Bisulfite, Gal.	38.40	44.80	56.00	54.40	48.00	33.60	24.00	30.40	20.00	12.80	14.40	13.60	390.40

2013-2014– Chemical Consumption Summary

	JUL	*AUG*	*SEP*	*OCT*	*NOV*	*DEC*	*JAN*	*FEB*	*MAR*	*APR*	*MAY*	*JUN*	*YTD*
Water Production System Chemical Consumption													
North Wells													
Chlorine Gas, Lbs.	1,170	1,311	965	696	342	335	584	390	1,058	722	1,840	1,823	11,236
South Wells													
Chlorine Gas, Lbs.	225	186	140	83	53	57	57	55	51	59	268	245	1,479
Delta Water Treatment Plant													
Liquid Oxygen, Gal.	11,480	10,368	9,497	8,431	5,731	4,820	4,435	4,590	1,710	1,516	1,994	5,843	70,415
Sodium Hypochlorite, Gal.	21,683	16,686	16,807	19,401	15,643	10,335	8,642	4,332	3,409	4,532	6,721	14,108	142,299
Sodium Hydroxide (Caustic Soda),Gal.	17,656	11,892	13,661	3,322	8,036	28,299	17,691	11,722	533	6,177	6,647	6,923	132,559
Aluminum Chlorohydrate (ACH), Gal.	4,205	8,705	8,468	8,409	7,157	5,609	3,807	2,682	863	677	829	1,269	52,680
Corrosion Inhibitor, Gal.	1,007	874	675	770	376	0	0	36	288	121	222	402	4,771
Citric Acid, Gal	106	74	96	78	69	53	41	34	36	88	80	73	828
Sulfuric Acid, Gal.	127	94	91	98	78	65	70	21	24	42	49	81	840
Sodium Bisulfite, Gal.	54	77	171	79	93	70	44	31	5	19	25	26	694

Table 2.7 – Utility Consumption Summary

CONSUMPTION	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	YTD
North													
N. Well Electricity, KWH	572,088	465,061	149,724	49,927	41,798	33,142	56,961	189,128	233,796	319,891	227,938	297,128	2,636,582
N. Reservoir Electricity, KWH	75,500	93,980	70,980	76,560	78,900	89,140	79,300	52,980	55,200	57,580	50,440	56,000	836,560
Electricity, KWH	647,588	559,041	220,704	126,487	120,698	122,282	136,261	242,108	288,996	377,471	278,378	353,128	3,473,142
Natural Gas, 1,000 Ft	-	-	-										-
South													
S. Well Electricity, KWH	23,520	7,330	11,029	7,582	5,849	6,545	11,961	20,179	78,446	71,964	20,535	85,048	349,988
S. Reservoir Electricity, KWH	33,295	23,520	25,280	22,080	15,200	22,240	29,920	19,040	18,720	16,640	14,400	14,080	254,415
S. Cl2 Booster Station, KWH	21	19	19	19	15	202	274	86	243	71	-	127	1,096
Electricity, KWH	56,836	30,869	36,328	29,681	21,064	28,987	42,155	39,305	97,409	88,675	34,935	99,255	605,499
Natural Gas, 1,000 Ft	-	-	-	-	-	-	-	-	-				-
Delta Water Treat Plant													
Electricity Used, KWH (Intake)	42,880	69,120	42,240	36,320	88,960	61,440	61,120	19,200	73,920	-	-	-	495,200
Electricity Used, KWH (Treatment Plant)	522,000	552,000	650,000	546,000	364,000	306,000	318,000	178,000	438,000	364,000	468,000	752,000	5,458,000
Electricity Generated, KWH (Solar)	17,220	15,330	11,440	10,780	6,910	4,680	5,890	8,460	13,880	18,510	20,040	20,980	154,120
DWTP Total Electricity Used	547,660	605,790	680,800	571,540	446,050	362,760	373,230	188,740	498,040	345,490	447,960	731,020	5,799,080
OUTAGES	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	YTD
North Wells													
Electricity	-	-	-	-	-	-	-	-	-	-	-	-	-
Natural Gas	-	-	-	-	-	-	-	-	-	-	-	-	-
South Wells										-	-	-	
Electricity	-	-	-	-	-	-	-	-	-	-	-	-	-
Natural Gas	-	-	-	-	-	-	-	-	-	-	-	-	-
Description of Outages													

2013-2014– Utility Consumption Summary

Water Production System Utility Consumption	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	YTD
North Production System													
N. Well Electricity, KWH						59,234	184,407	116,055	249,115	151,618	612,126	597,362	1,969,917
N. Reservoir Electricity, KWH						99,400	103,720	96,120	87,340	81,100	81,900	84,920	634,500
Electricity, KWH	261,400	255,504	252,915	230,888	137,736	158,634	288,127	212,175	336,455	232,718	694,026	682,282	3,742,860
Natural Gas, 1,000 Ft	11	112	6	32	106	64	2	1	2	0	6	46	388
South Production System													0
S. Well Electricity, KWH						6,576	6,434	5,100	5,044	3,775	49,771	44,163	120,863
S. Reservoir Electricity, KWH						29,760	27,360	25,280	18,080	16,480	18,400	21,920	157,280
S. Cl2 Booster Station, KWH						14	14	15	17	15	20	18	113
Electricity, KWH	33,637	26,239	24,911	27,074	24,670	36,350	33,808	30,395	23,141	20,270	68,191	66,101	414,787
Natural Gas, 1,000 Ft	0	14	17	1	10	0	0	0	0	0	0	0	42
Delta Water Treatment Project													0
Electricity Used, KWH (Intake)	102,560	13,760	57,760	118,720	76,000	139,520	56,160	60,800	52,480	54,880	19,200	42,880	794,720
Electricity Used, KWH (Treatment Plant)	760,000	674,000	506,000	558,000	538,000	356,000	232,000	184,000	122,000	130,000	202,000	184,000	4,446,000
Electricity Generated, KWH (Solar)	-20,810	-16,720	-14,180	-12,830	-7,520	-7,490	-7,100	-7,370	-14,650	-18,740	-22,360	-21,940	-171,710
DWTP Total Electricity Used	841,750	671,040	549,580	663,890	606,480	488,030	281,060	237,430	159,830	166,140	198,840	204,940	5,069,010
Water Production System Utility Outages													0
North Wells													0
Electricity	0	0	0	0	0	0	0	0	0	0	0	0	0
Natural Gas	0	0	0	0	0	0	0	0	0	0	0	0	0
South Wells													0
Electricity	0	0	0	0	0	0	0	0	0	0	0	0	0
Natural Gas	0	0	0	0	0	0	0	0	0	0	0	0	0
Description of Outages	None	None	None	None	None	None	None	None	None	None	None	None	None

Table 2.8 – Hydrant Maintenance

Hydrant Repairs	*Current Month*	*Fiscal YTD*
Leaks	8	81
Vehicle Accidents	2	41
Routine Maintenance Repair	8	100
Painted Hydrant	1	3
Installed New/Replaced Hydrant	0	26
Assist Fire Department	0	0
Emergency Fire Response	0	0
Fire Flow Test	1	15
Removed Hydrant/Spool	0	8
Relocated Hydrant	0	0
Gate Valve Maintenance	1	5

Table 2.9 – Valve Maintenance Program

	Current Month	*Fiscal YTD*	*# of Valves in System*
Air Relief Valves Inspected	19	158	198
Distribution Valves Located	1	33	10,490
Distribution Valves Exercised	17	545	10,490
Distribution Valves Installed (New)	0	0	10,490
Blow-off Valves Flushed	0	1	1,282
Valves Repaired (all types)	0	45	11,968

Table 2.10 – Service Connections

Meters Applied to Routes- Current Month	
Meters Applied to Routes - Fiscal Year-to-Date	82
Total Number of Service Meters in Water System (Active + Inactive)	48,754

Table 2.11 – Number of Active Service Meters in Water System - By Size

Meter Size (in inches)	Residential	Industrial	Commercial / Institutional	Irrigation
5/8	1,799	0	14	15
3/4	25,192	14	212	74
1	18,346	0	242	146
1½	258	0	230	160
2	255	1	604	436
3	14	0	69	25
4	5	3	46	20
6	5	1	18	2
8	0	0	5	0
10	0	0	2	0
12	0	0	2	0
Totals	45,874	19	1,444	878

Table 2.12 – Water Quality Inquiry Summary

Inquiry	Quantity	Follow-up Action
Taste / Odor	2	-1- Complaint of chemical smell in water. Operator observed normal chlorine residual. Operator explained different water sources. -1- Complaint of chemical taste in water. Chlorine residual normal. Upon arrival operator and customer found no objectionable taste or odor. Operator explained different water sources.
Color	2	-1- Complaint of color in water after main line was shut down for an emergency repair. Operator advised flushing lines and explained possible causes of color in water. -1- Complaint of brownish water. Hydrant use in the neighborhood. Operator explained possible causes and advised flushing lines until clear.
Turbidity		(none)
Suspended Solids		(none)
Pressure		(none)
Sediment		(none)
Air		(none)
Sand		(none)
Miscellaneous	1	-1- Complaint of hard water causing spots on pans. Operator spoke to customer and explained water sources and their differences and causes of spotting.
Inquiry		(none)

Table 2.13 – Customer Services Summary

Customer Service Operations	*Current Month*
Residential Meter Routes	90
Commercial Meter Routes	13
Estimated Meter Reads by Utility Billing	0
Total Meters Read	48,754
Number of Check Reads (All Routes)	234
Number of Service Turn-on/Turn-offs	1,183

Table 2.14 – Cross Connection Control Program (based on a calendar year)

2015	*Beginning of Year*	*This Month*	*Year to Date*
Total Devices in COS System	2,734		2,774
Due for Testing to Date			1,750
Tested to Date			1,708
Outstanding			42
Installed/Added		2	45
Reactivated		0	4
Inactivated from Cos System		0	9

Table 2.15 – Cross Connection Control Program Surveys

	Surveyed	*Surveyed Fiscal Year-to-Date*
Customer Connections Surveyed	7	97

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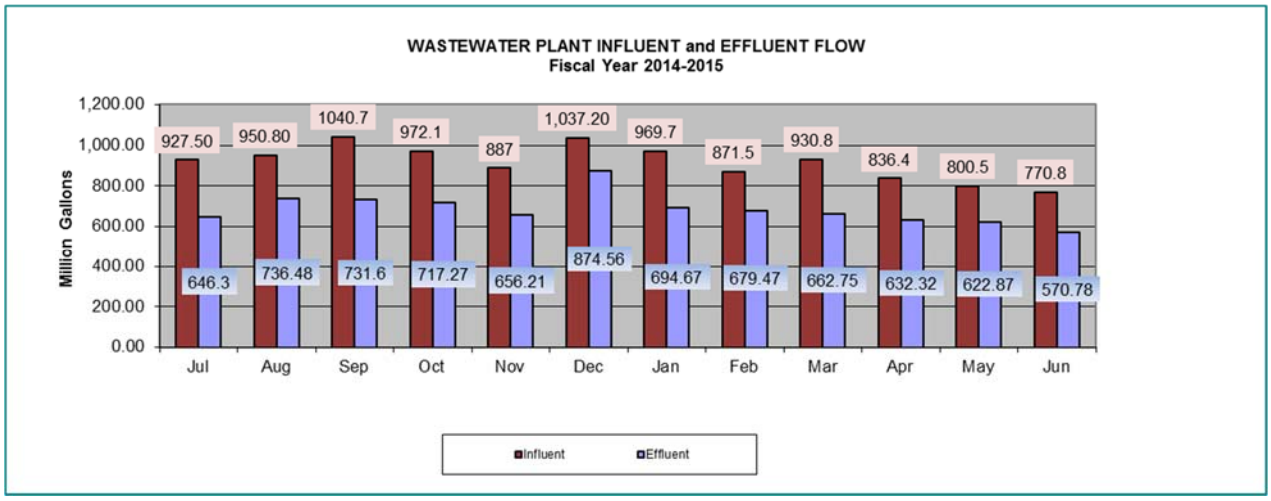
Wastewater Treatment

Table 3.1 – Summary of Influent and Effluent Parameters

Influent Parameters	*Actual Month Average*	
Flow, MGD	25.7	
cBOD, mg/L	360	
TSS, mg/L	320	
Effluent Parameters	Actual Month Average	NPDES Permit Limit Monthly Average
Flow, MGD	19.0	55 Average Dry Weather Flow
cBOD, mg/L	<2.3	10
cBOD Removal, %	>99.6	85
TSS, mg/L	<2.6	10
TSS Removal, %	> 99.4	85
Ammonia, mg/L	<0.8	1.2 Daily maximum is 4
Turbidity (NTU)	1.1 0.7– *2.2*	2 (daily average) Daily maximum limit > 5 NTU no more than 3 mins/hr or 72 mins/24 hr run time
pH, standard units (Min/Max)	6.5- 7.8	6.5 – 8.5
DO, mg/L (Min. Daily Average)	7.9	5.0 01Dec. thru 31 Aug.
Ponds, Free Board, feet (Daily Average)	2.21-2.96	>= 2 feet (Daily Avg) No less than 1.0 ft (Daily Max)

Figure 3.A – Wastewater Plant Influent and Effluent Flow



Wastewater Plant Influent and Effluent Flow Comparison Year 2013-2014

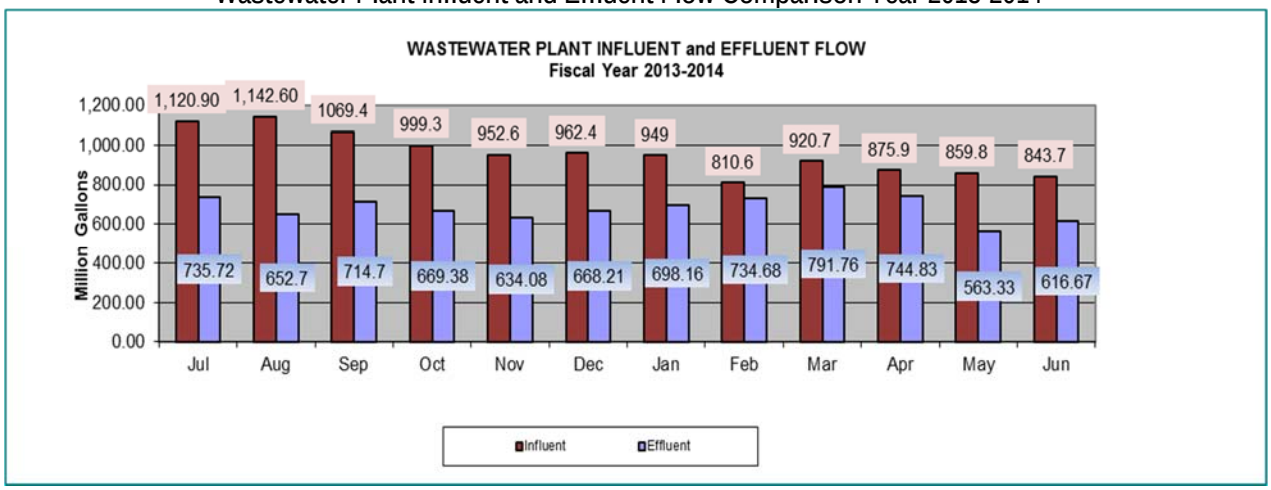
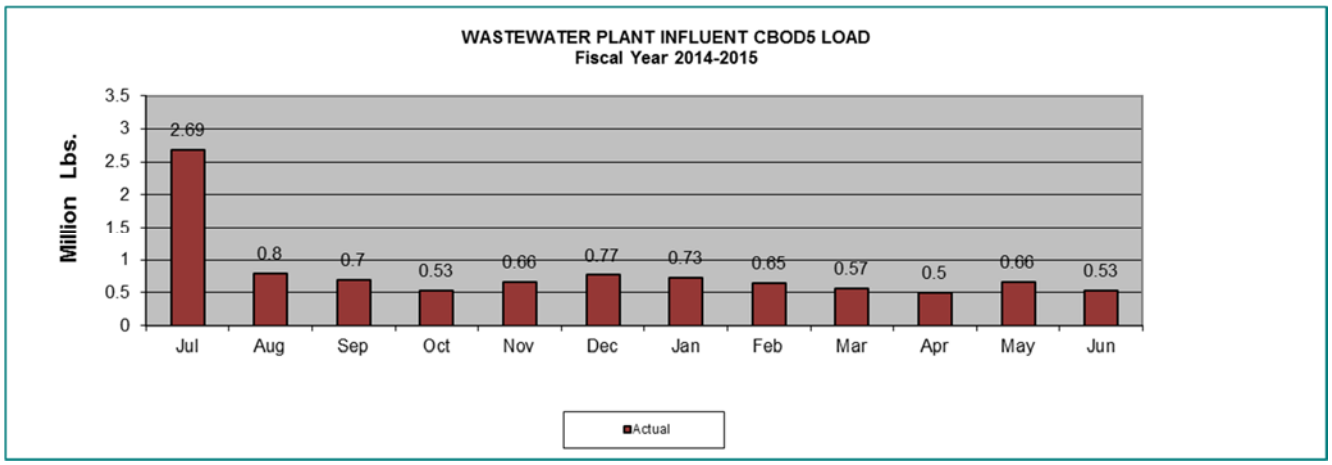


Figure 3.B – Wastewater Plant Influent CBOD5 Load



Wastewater Plant Influent CBOD5 Load Comparison Year 2013-2014

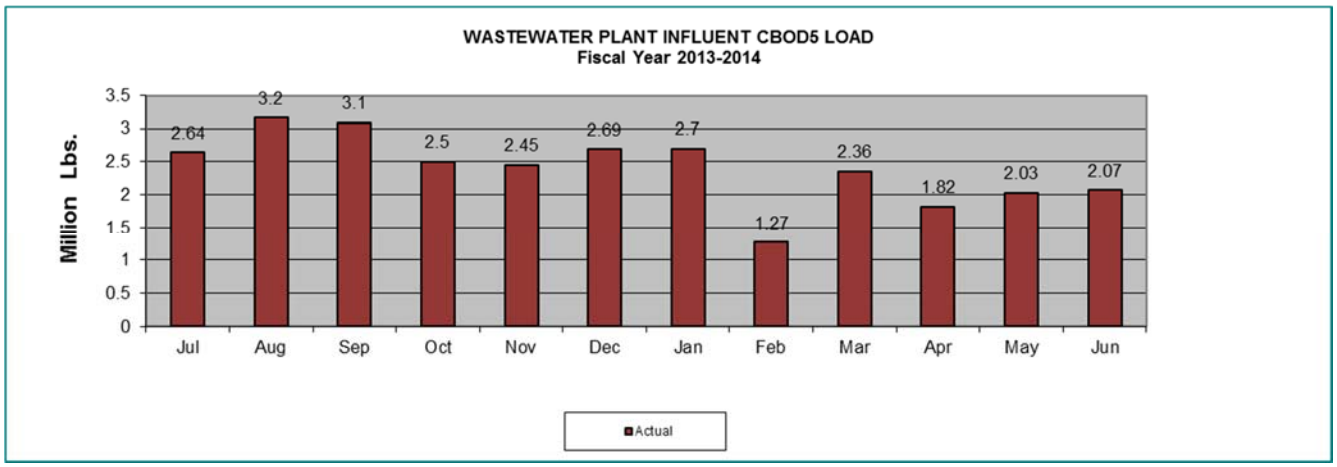
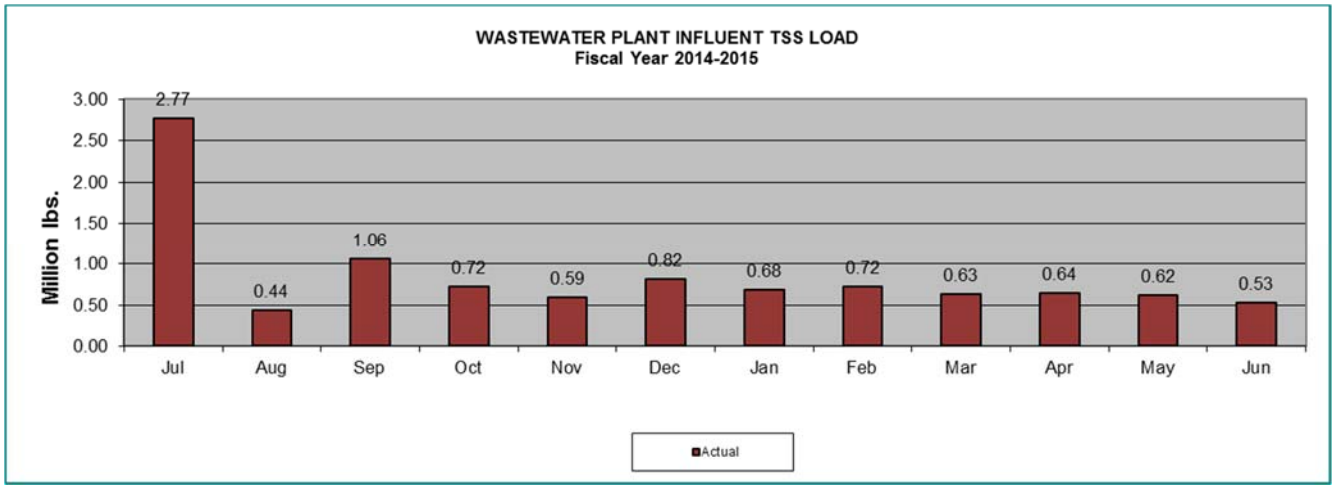


Figure 3.C – Wastewater Plant Influent TSS Load



Wastewater Plant Influent TSS Load Comparison Year 2013-2014

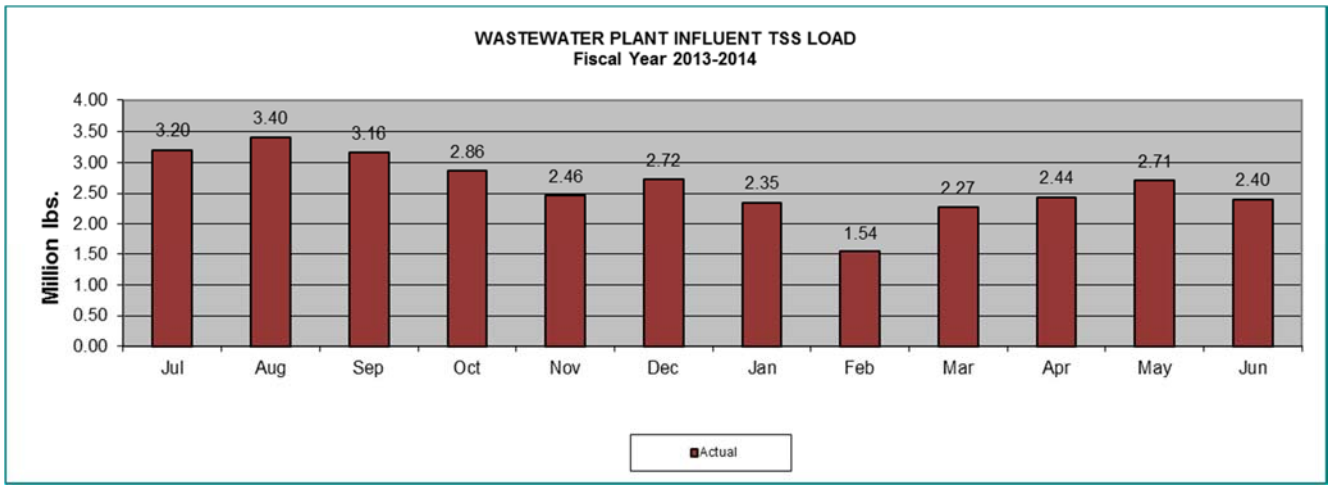
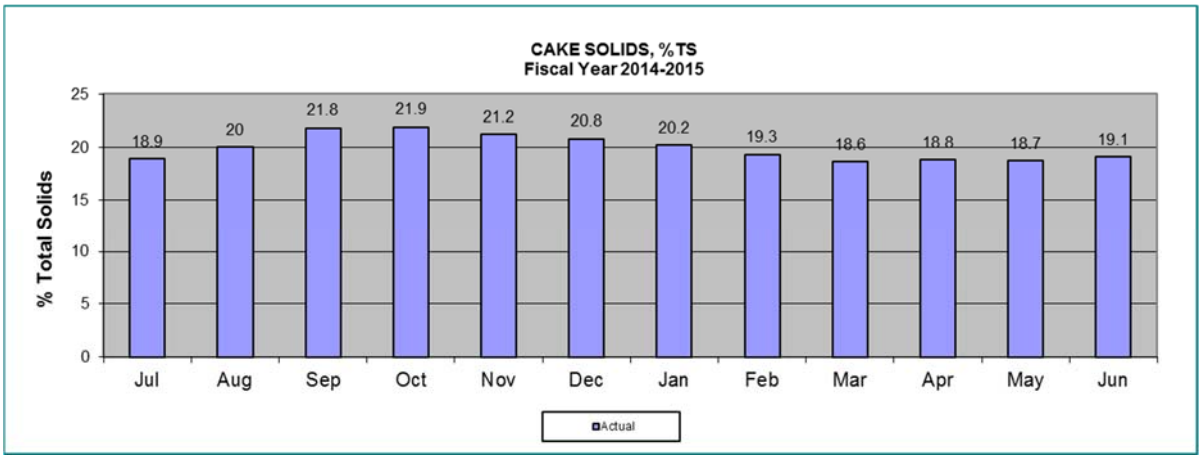


Table 3.2 – Residuals and Chemical Management Summary for Biosolids

Digester Biosolids	Current Month	Fiscal Year-to-Date
Total Feed, gals.	3,437,100	44,455,653
Total Gas Production, CuFt.	14,119,675	185,290,465
Sludge Lagoon, gals.	0	0
Ferric Chloride, gal.	7,988	92,199
Ferric Chloride (EPT), lbs.	4,925	71,152
Dewatered Biosolids		
Total Feed, gals.	1,247,550	26,753,927
Polymer, lbs.	20,895	827,231
Cake, Wet Tons	638	18,339
Biosolids Truck Loads Hauled	26	744

Figure 3.D – Cake Solids



Cake Solids Comparison Year 2013-2014

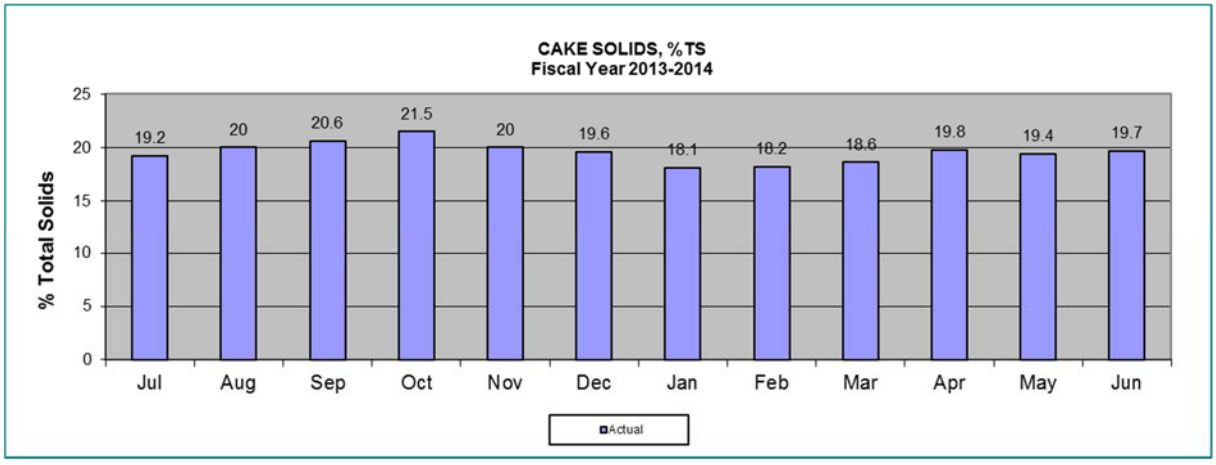


Table 3.3 – Summary of Tertiary Pond Operating Levels

Tertiary Pond	Start Freeboard	End Freeboard	Reserve Capacity (Million Gallons)
Pond #1 (190 ac.)	2.32	2.35	145.49
Pond #2 (135 ac.)	2.99	3.13	127.49
Pond #3 (125 ac.)	2.63	2.84	124.93
		Total	397.91
		Total Reserve Days	17.39

Table 3.4 – Chemical Consumption Summary – Tertiary Facility

Chemical Used	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Fiscal Year-to-Date
Chlorine Gas, lbs.	40,257	47,844	48,373	49,915	44,533	42,994	35,126	35,267	36,650	34,045	34,424	37,867	449,428
Sulfur Dioxide, lbs.	30,004	33,988	38,624	36,400	30,000	37,041	28,300	32,335	34,600	32,200	34,703	31,060	368,195
Caustic Soda, gals	0	0	0	0	2,161	8,034	8,706	8,029	384	156	1,520	209	28,990
Aqueous Ammonia, gals.	12,255	17,429	6,359	5,131	3,486	3,224	3,309	3,254	3,708	4,242	5,042	4,560	67,439
Polymer, lbs	361,988	505,196	463,476	348,519	298,242	345,765	297,918	312,443	384,330	402,147	273,984	141,125	3,994,008

Comparison Year 2013-2014 - Chemical Consumption Summary – Tertiary Facility

Chemical Used	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Fiscal Year-to-Date
Chlorine Gas, lbs.	50,024	48,769	48,963	41,525	38,481	41,773	37,286	43,775	46,192	43,941	35,465	34,068	510,262
Sulfur Dioxide, lbs.	35,700	33,200	33,050	30,300	28,200	34,300	30,700	28,700	32,098	33,000	28,540	30,567	378,355
Caustic Soda, lbs.	2,777	3,880	707	3,036	2,184	18,009	24,277	14,398	7,953	7,692	2,927	262	88,102
Aqueous Ammonia, gals.	10,329	10,554	7,662	6,712	2,404	155	0	965	3,737	3,949	3,800	3,845	38,559
Polymer, lbs.	147,300	253,719	299,527	226,210	211,985	254,674	268,600	267,516	333,409	339,743	340,118	350,079	3,292,880

Table 3.5 – Utility Consumption

	Current Month	Fiscal Year-to-Date
Electricity		
Main Facility Total Usage, KW	1,576,803	17,819,730
Tertiary Facility Total Usage, KW	577,849	6,084,719
Total Facility Usage, KW	2,154,652	20,318,749
PG&E, Purchased KW	1,597,481	16,329,431
Co-Generation Production, KW	557,171	7,607,949
Total Facility Prod./Purch. KW	2,154,652	20,317,952
Natural Gas		
Co-Generation Fuel, Therms	71,630	945,740
Building Fuel, Therms	2.76	90.07
Methane Gas, Digester Production, CuFt.	14,119,675	152,408,765
Methane Gas, Digester Production, Therms	75,634	883,400
Water		
Wastewater Facilities Total Usage, gals.	1,879,287	14,598,568

Table 3.6 – Maintenance Work Order Summary

Maintenance Work Orders	*Corrective Maintenance WO's Issued*	*Corrective Maintenance % Completed*	*Preventative Maintenance WO's Issued*	*Preventive Maintenance % Complete*
RWCF Treatment Plant				
Main Plant	N/A	N/A	260	*
Tertiary Plant	N/A	N/A	256	*
RWCF Plant Maintenance				
Main Plant	36	44.4	266	0
Main Plant Electrical	13	30.8	23	0
Tertiary Plant	13	53.8	107	0
Tertiary Plant Electrical	5	60	40	0

Due to a backlog in data entry, percent complete numbers are not yet available for June.

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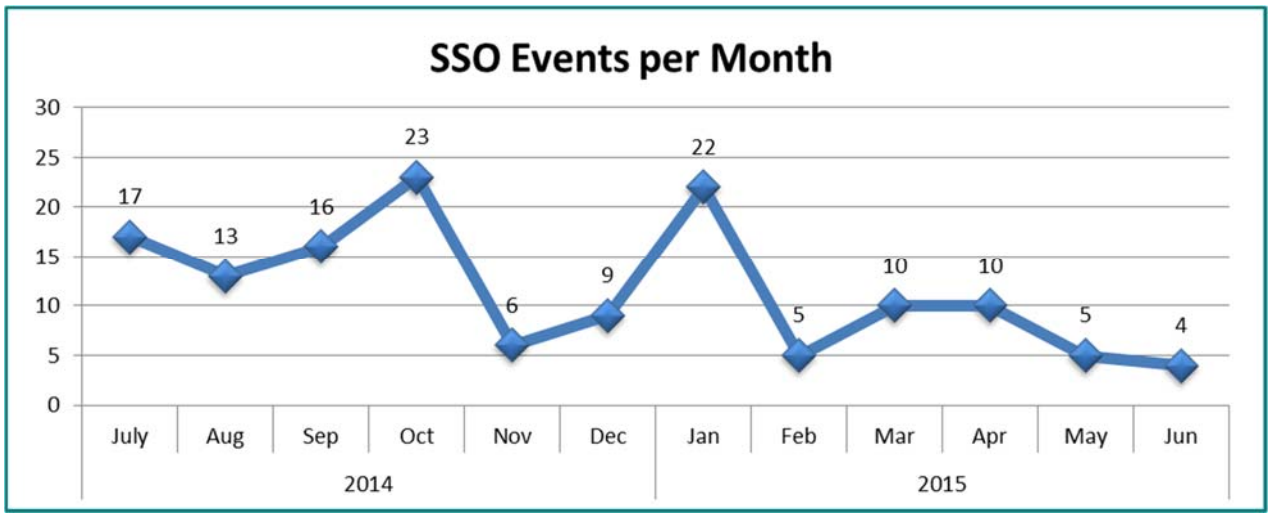
Wastewater Collection Systems

Table 4.1 – Summary of SSOs and Private Sewage Spills

Date	Address	Spill Gallons	Gallons Recovered	Gal to Surf Water	Cause	Receiving Water or Containment	Line Type	Pipe Size
CATEGORY 1								
			NONE					
CATEGORY 2								
			NONE					
CATEGORY 3								
6/3/2015	S. Airport Wy	5	5	0	Roots	Gutter	Lateral	4"
6/16/2015	Knickerbicker Dr.	3	3	0	Debris	Gutter	Lateral	4"
6/17/2015	Pyrenees Ave.	4	4	0	Roots	Gutter	Lateral	4"
6/29/2015	Huntington Ln.	6	6	0	Roots	Gutter	Lateral	4"
PRIVATE								
6/3/2015	Volpi Dr.	238	238	0	Debris	Gutter	Lateral	4"
6/3/2015	Woodbury Lane	10	10	0	Debris	Gutter	Lateral	4"
6/14/2015	Percival Way	10	10	0	Debris	Gutter	Lateral	4"

Total Public SSO Events	4	Total Gallons	18
Total Private Spills	3	Total Gallons	258
Total Public & Private Spill	7	Total Gallons	276

Figure 4.A – Public Sanitary Sewer Overflow Events



Public Sanitary Sewer Overflow Events - Comparison Year 2013-2014

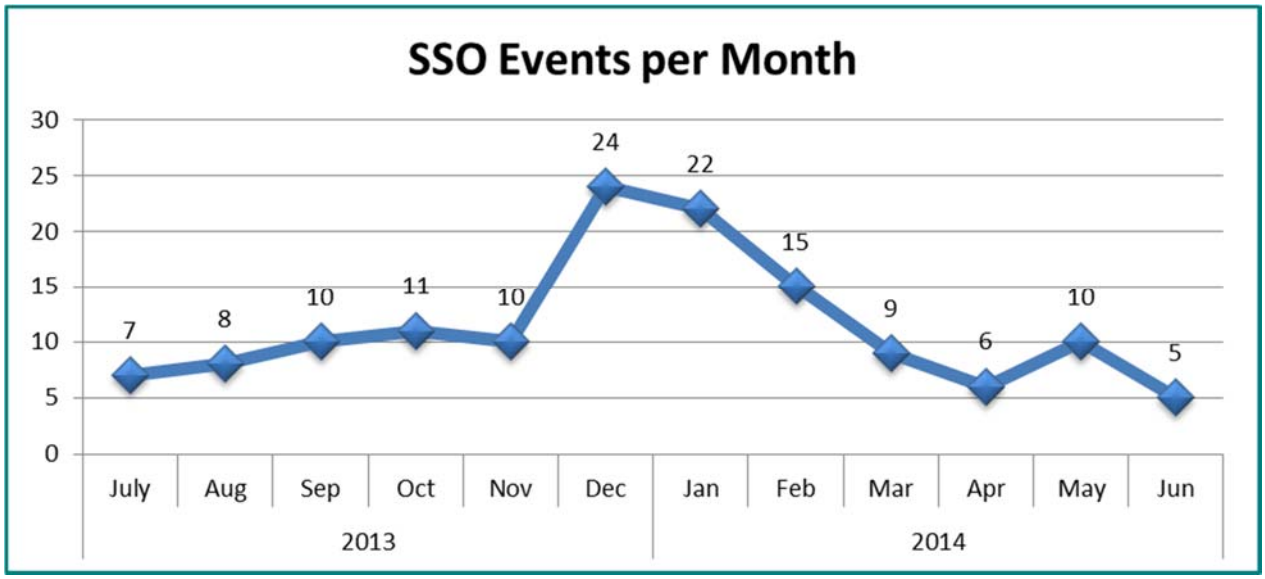
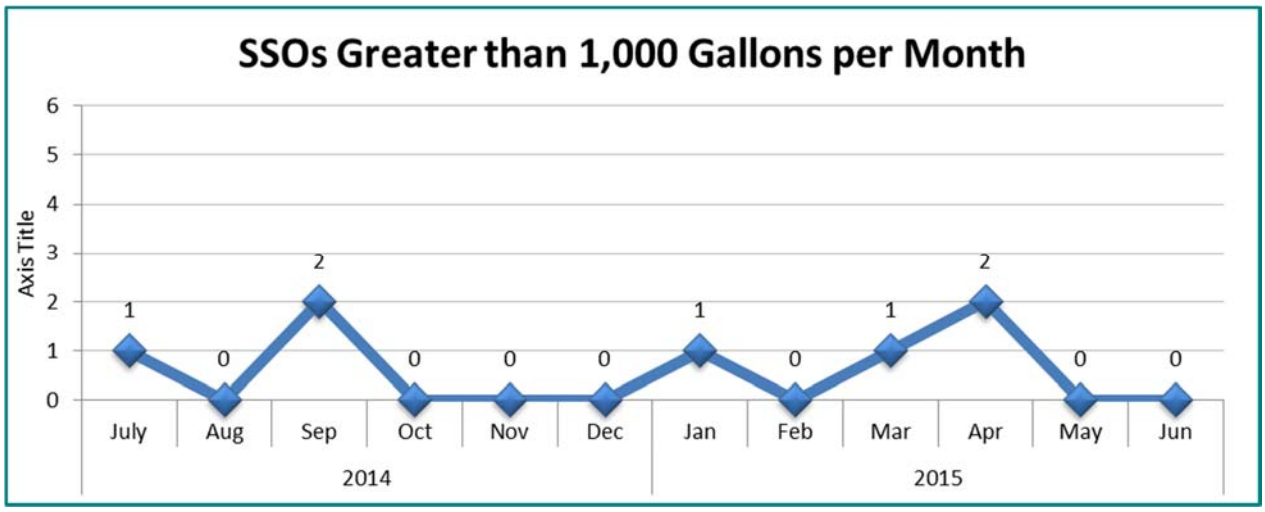


Figure 4.B – Public SSOs Greater than 1,000 gallons – Events



Public SSOs Greater than 1,000 gallons Events – Comparison Year 2013-2014

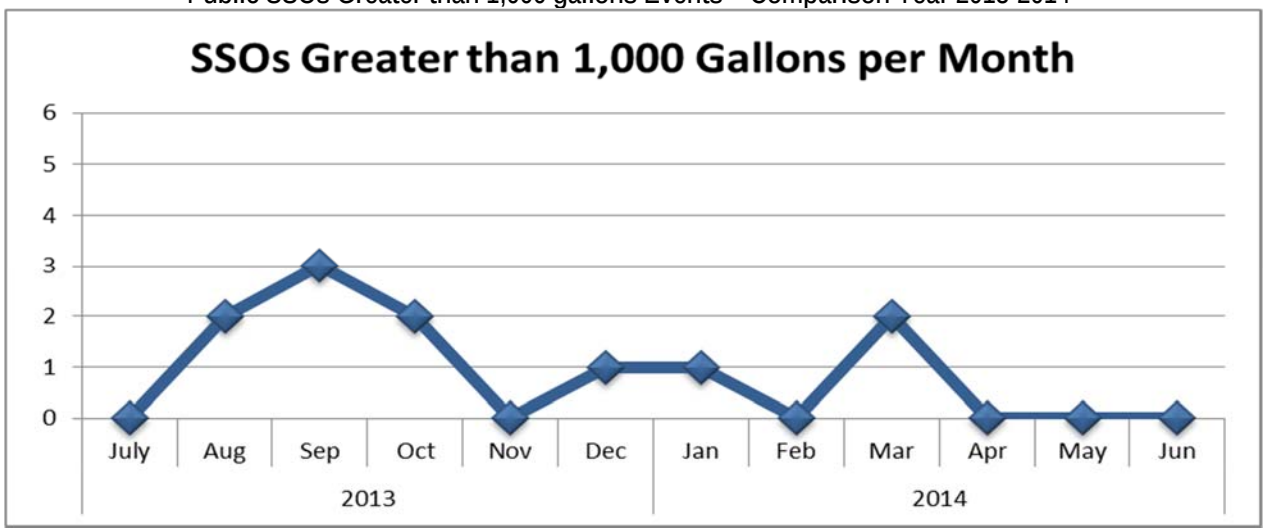
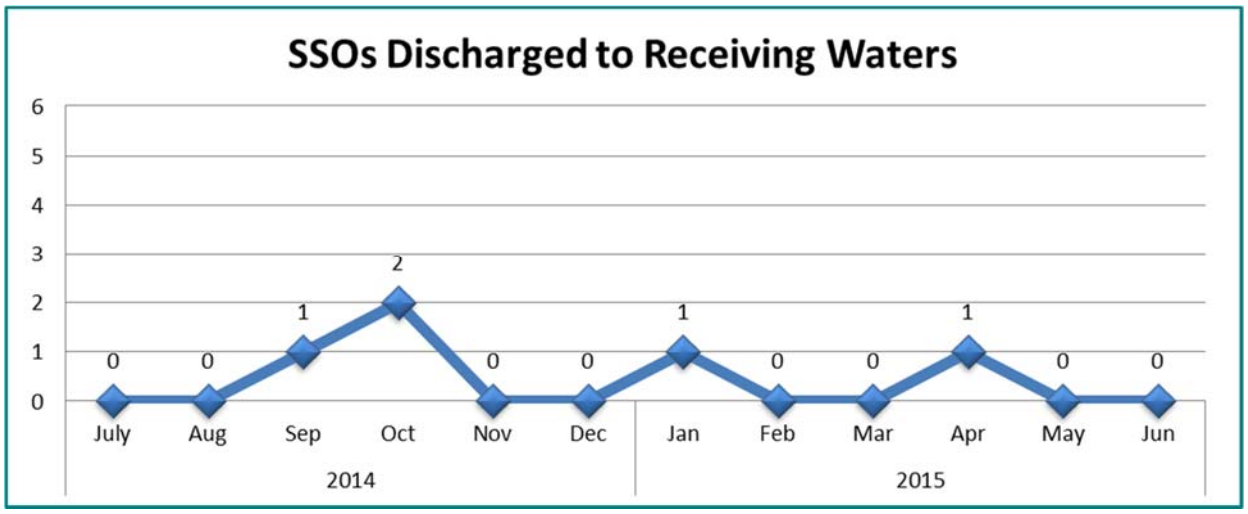


Figure 4.C – Public Sanitary Sewer Overflows Discharged to Receiving Water



Public Sanitary Sewer Overflows Discharged to Receiving Water – Comparison Year 2013-2014

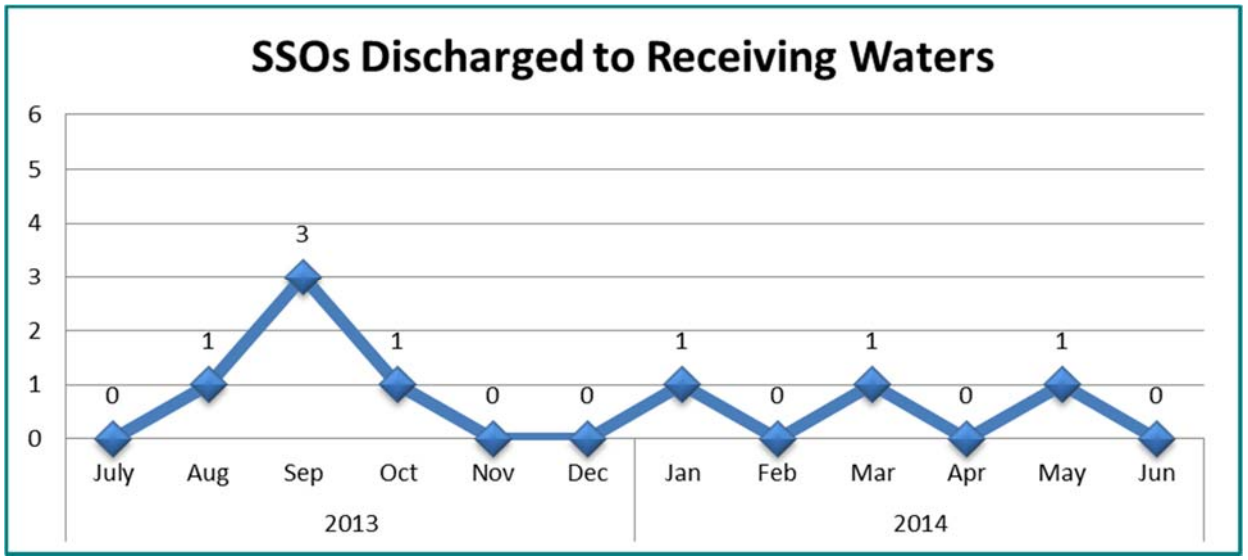


Table 4.2 – Sewer Maintenance Activity Summary

	JUL	*AUG*	*SEP*	*OCT*	*NOV*	*DEC*	*JAN*	*FEB*	*MAR*	*APR*	*MAY*	*JUN*	*FISCAL YTD*
Repairs – Sewer													
# of Lateral Repairs	12	7	4	0	6	6	9	7	7	4	3	5	70
Lateral Repairs, Linear Feet	62	27	20	0	48	31	39	28	33	23	13	25	349
# of Main Line Repairs	3	7	0	3	2	2	5	2	7	4	5	1	41
Main Line Repairs, Linear Feet	12	46	0	18	5	2	24	10	19	21	28	5	190
Maintenance Hole Repair/New	22	14	8	8	6	4	7	11	9	3	3	9	104
Sewer Taps	1	0	0	0	0	0	0	0	0	0	0	0	1
Maintenance – Sewer													
# of Main Line Segments Jetted	557	381	325	570	577	374	692	581	479	400	406	531	5,794
Main Line Linear Feet Jetted	177,922	129,123	104,005	179,610	139,030	125,715	210,728	167,127	150,822	137,326	151,123	141,505	1,800,540
# of Main Line Segments Rodded	60	47	6	50	19	8	36	62	55	39	64	67	497
Main Line Linear Feet Rodded	20,621	14,900	2,410	16,556	5,944	1,729	11,830	21,215	18,244	13,617	19,112	19,834	160,385
Laterals Foamed	82	83	104	59	45	50	64	82	162	129	109	110	1,046
Laterals Foamed, Linear Feet	2,460	2,490	3,120	1,770	1,350	1,500	1,920	2,460	4,860	3,870	3,270	3,300	31,380

(Chart totals do not include work done by contractors.)

Comparison Year 2013-2014 – Sewer Maintenance Activity Summary

	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	FISCAL YTD
Repairs – Sewer													
# of Lateral Repairs	22	12	18	12	8	7	7	8	4	3	15	5	121
Lateral Repairs, Linear Feet	179	96	87	105	40	59	30	49	31	17	74	16	783
# of Main Line Repairs	2	4	2	5	2	1	7	3	7	3	6	7	49
Main Line Repairs, Linear Feet	6	19	7	16	11	1	36	18	35	2	32	42	225
Maintenance Hole Repair/New	3	8	6	11	6	7	10	5	20	6	9	4	95
Sewer Taps	0	0	0	1	0	0	0	0	0	0	0	0	1
Maintenance – Sewer													
# of Main Line Segments Jetted	1,275	672	594	508	356	601	335	427	297	358	589	648	6,660
Main Line Linear Feet Jetted	312,274	180,512	181,778	168,920	130,954	178,340	120,275	128,565	95,235	122,653	177,782	179,783	1,977,071
# of Main Line Segments Rodded	74	54	35	33	20	32	17	21	44	33	18	7	384
Main Line Linear Feet Rodded	21,159	12,855	10,887	10,044	7,127	8,871	5,917	6,017	11,479	11,498	6,238	2,519	109,819
Laterals Foamed	137	398	155	126	78	92	29	145	78	79	102	81	1,500
Laterals Foamed, Linear Feet	3,515	19,900	7,750	6,300	3,900	2,760	870	3,727	2,340	2,370	3,060	2,430	58,922

(Chart totals do not include work done by contractors.)

Table 4.3 – Customer Service and CCTV Activity Summary

CUSTOMER SERVICE	*JUL*	*AUG*	*SEP*	*OCT*	*NOV*	*DEC*	*JAN*	*FEB*	*MAR*	*APR*	*MAY*	*JUN*	*FISCAL YTD*
Service Calls	422	453	354	390	366	653	536	389	330	306	270	256	4,725
USA Requests	929	848	781	873	572	733	831	640	849	1,254	603	1,224	10,137
TV Sanitary Line Segment Inspections	81	75	86	122	115	71	132	138	132	51	53	105	1, 161
TV Sanitary Line Segment Inspections, Linear Feet	21,292	18,720	21,570	30,733	23,140	17,487	29,881	26,608	30,832	14,572	11,814	19,775	266,424
TV Sanitary Lateral Inspections	287	310	82	49	16	70	65	33	139	101	121	51	1,324
TV Sanitary Lateral Inspections, Linear Feet	6,955	8,435	1,769	1,179	251	1,409	3,368	680	4,204	2,216	670	1,287	32,423

(Chart totals do not include work done by contractors.)

Comparison Year 2013-2014 – Customer Service and CCTV Activity Summary

CUSTOMER SERVICE	*JUL*	*AUG*	*SEP*	*OCT*	*NOV*	*DEC*	*JAN*	*FEB*	*MAR*	*APR*	*MAY*	*JUN*	*FISCAL YTD*
Service Calls	998	731	527	489	477	427	724	442	445	436	348	290	6,334
USA Requests	1,057	816	781	719	483	531	413	706	1,081	1,003	583	587	8,760
TV Sanitary Line Segment Inspections	174	279	275	226	211	156	123	105	179	150	104	223	2,205
TV Sanitary Line Segment Inspections, Linear Feet	41,520	71,158	77,183	59,919	57,738	42,870	29,664	24,687	41,761	34,782	28,469	57,860	567,611
TV Sanitary Lateral Inspections	320	1,489	393	246	290	215	67	272	288	435	320	119	4,454
TV Sanitary Lateral Inspections, Linear Feet	7,924	39,954	10,452	6,945	8,323	5,841	1,252	7,765	6,907	10,415	5,413	2,789	113,980

(Chart totals do not include work done by contractors.)

Table 4.4 – Spoils Activity Summary

SPOILS ACTIVITY SUMMARY	*JUL*	*AUG*	*SEP*	*OCT*	*NOV*	*DEC*	*JAN*	*FEB*	*MAR*	*APR*	*MAY*	*JUN*	*FISCAL YTD*
Operations / Grit Hauling - # of Loads	0	0	0	0	0	0	0	1	2	0	0	0	3
Operations / Grit Hauling - Tonnage	0	0	0	0	0	0	0	12.44	17.41	0	0	0	29.85
Sanitary Lines / Pump Stations - # of Loads	3	0	1	0	0	2	1	5	4	3	0	0	19
Sanitary Lines / Pump Stations - Tonnage	36.19	0	17.50	0	0	30.09	10.50	58.98	61.39	26.36	0	0	241.01
Construction Hauling – # of Loads	5	0	6	3	0	0	10	5	0	6	0	0	35
Construction Hauling – Tonnage	70.02	0	92.36	44.67	0	0	109.78	78.41	0	89.90	0	0	485.14
Total Loads	8	0	7	3	0	2	11	11	6	9	0	0	57
Total Tonnage	106.21	0	109.86	44.67	0	30.09	120.28	149.83	78.80	116.26	0	0	756.00

Comparison Year 2013-2014 – Spoils Activity Summary

SPOILS ACTIVITY SUMMARY	*JUL*	*AUG*	*SEP*	*OCT*	*NOV*	*DEC*	*JAN*	*FEB*	*MAR*	*APR*	*MAY*	*JUN*	*FISCAL YTD*
Operations / Grit Hauling - # of Loads	0	0	3	0	0	0	0	0	0	0	0	6	9
Operations / Grit Hauling - Tonnage	0	0	23.41	0	0	0	0	0	0	0	0	39.62	63.03
Sanitary Lines / Pump Stations - # of Loads	0	5	0	3	0	3	0	0	4	4	3	1	23
Sanitary Lines / Pump Stations - Tonnage	0	73.56	0	29.68	0	41.34	0	0	39.74	49	35.70	6.23	275.25
Construction Hauling – # of Loads	12	8	6	19	0	9	0	2	4	9	0	0	69
Construction Hauling – Tonnage	113.79	110.47	83.46	285.53	0	138.47	0	27.07	56.07	30.22	0	0	845.08
Total Loads	12	12	9	22	0	12	0	2	4	13	3	7	96
Total Tonnage	113.79	184.03	106.87	315.21	0	179.81	0	27.07	95.81	79.22	35.70	45.85	1,183.36

Table 4.5 – Graffiti Removal

Name / Location of Pump Stations Painted
NONE

Table 4.6 – Maintenance Work Order Summary

Maintenance Work Orders	*Corrective Maintenance*	*Corrective Maintenance % Completed*	*Corrective Maintenance %Backlog*	*Preventive Maintenance % Backlog*
Sanitary Pumping Facilities				
Pump Station Mechanical	58	91.4	8.6	6.3
Pump Station Electrical	10	80.0	20.0	66.0

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Environmental Control

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Table 5.1 – Operational Activity Summary

Activity/Indicator	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun
Pretreatment Program												
Industrial Inspections	56	47	47	41	34	25	41	35	40	44	40	53
Industrial Sampling	49	44	42	39	26	23	34	30	37	34	26	42
Discharge Permits (new) *	0	1	1	0	1	1	1	0	0	1	2	1
Discharge Permits (renewal) **	12	1	0	0	3	1	1	1	1	1	2	2
Industrial Flow, MG	142.97	156.44	144.70	98.82	68.57	90.15	89.05	81.89	73.65	70.73	74.30	
Industrial BOD, lbs.	985,320	1,029,260	813,140	467,460	444,610	393,450	567,500	601,390	509,000	475,470	480,610	
Industrial TSS, lbs.	429,250	507,970	519,040	208,480	99,590	121,290	135,490	137,740	104,090	114,680	154,480	
Industrial Revenue	$ 579,764	$ 592,223	$ 578,116	$ 524,212	$ 499,406	$ 537,279	$ 545,053	$547,973	$517,130	$512,413	$516,386	
Pretreatment Enforcement Actions***	4	4	2	5	6	3	2	5	9	6	4	5
Waste Hauler Program												
Trucked-in Waste Loads	252	259	222	244	221	234	270	224	282	262	261	
Trucked-in Waste Gallons	746,812	769,775	668,560	730,670	671,344	704,271	821,995	667,352	830,982	782,239	760,047	
Trucked-in Waste Revenue	$ 26,937	$ 27,707	$ 23,834	$ 26,156	$ 23,783	$ 25,118	$ 29,074	$ 23,978	$ 30,098	$ 28,062	$ 27,768	
Stormwater Program												
Hazardous Materials Spills ****	0	0	0	0	0	0	1	1	0	1	0	0
Stormwater Complaints	2	0	7	0	0	3	3	0	1	2	2	0
Stormwater Enforcement Actions*****	0	0	4	0	0	1	1	0	2	2	1	0
FOG Program												
FOG Initial Inspections	78	81	80	92	21	0	82	67	83	89	109	73
FOG Enforcement Actions	57	57	59	70	47	37	41	42	45	58	54	47
FOG Follow-up Inspections	36	38	37	59	76	78	23	27	40	46	46	53

* Discharge Permits (New) –
1 – Significant Industrial User Permit – One Time Discharge

** Discharge Permits (Renewal)
1 – Significant Industrial User Permit
1 – Categorical Significant Industrial User Permit

*** Pretreatment Enforcement Actions
4/29/15 – NOV/CO, Exceeded daily TDS limit
4/15/15 - NOV/CO , Missed TDS sample
10/22/14 – NOV/CO, Three (3) discharges at the RWCF from outside of the service area
4/28/15 – NOV/CO, Self-monitoring sample indicated an Oil and Grease violation of 1080 mg/L
5/13/15 – NOV/CO, City-monitoring sample indicated a TBA violation of .045 mg/L

**** Hazardous Materials Spills – NONE

***** Stormwater Enforcement Actions - NONE

Comparison Year 2013-2014 –Operational Activities Summary

Activity/Indicator	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun
Pretreatment Program												
Industrial Inspections	51	41	47	30	31	25	33	34	44	51	46	33
Industrial Sampling	45	36	43	28	24	18	32	27	38	44	31	31
Discharge Permits (new) *	0	0	0	0	0	0	0	0	0	2	2	1
Discharge Permits (renewal) **	0	5	0	9	4	1	0	0	2	2	1	1
Industrial Flow, MG	148.35	164.52	146.47	91.67	75.91	76.55	83.01	78.7	84.33	78.72	78.75	79.75
Industrial BOD, lbs.	886,650	992,280	820,600	475,980	458,320	459,280	573,740	534,380	614,040	438,190	470,670	418,970
Industrial TSS, lbs.	443,530	511,270	528,820	235,010	124,600	103,400	148,560	116,860	127,770	131,830	142,660	66,960
Industrial Revenue	$ 535,591	$ 551,616	$ 535,224	$ 480,584	$ 467,343	$ 466,856	$ 477,821	$ 477,678	$ 479,438	$ 472,444	$ 471,616	$ 498,361
Pretreatment Enforcement Actions***	3	3	7	5	3	5	7	11	7	6	2	5
Waste Hauler Program												
Trucked-in Waste Loads	278	238	221	219	217	197	269	182	198	251	250	299
Trucked-in Waste Gallons	830,836	715,443	649,731	650,897	635,082	599,176	812,320	558,987	594,803	732,618	736,265	879,728
Trucked-in Waste Revenue	$ 29,784	$ 25,539	$ 23,572	$ 23,428	$ 23,118	$ 21,207	$ 28,902	$ 19,646	$ 21,243	$ 26,721	$ 26,678	$ 31,899
Stormwater Program												
Hazardous Materials Spills ****	0	0	0	0	0	2	1	0	1	0	3	1
Stormwater Complaints	1	2	3	0	2	6	6	3	4	3	5	2
Stormwater Enforcement Actions*****	1	2	3	1	0	2	2	1	1	1	4	0
FOG Program												
FOG Initial Inspections	8	6	14	17	6	2	61	63	62	80	43	83
FOG Enforcement Actions	25	32	18	16	4	13	19	31	34	45	42	53
FOG Follow-up Inspections	51	58	34	29	16	21	7	18	13	25	30	27

Laboratory

Table 6.1 – Acute Toxicity Testing Summary

Date of EFF-001 Sample (composite)	Percent survival	Lab
06-07-15	100	PERL

Chronic Toxicity

Table 6.2 – Algae (Selenastrum capricornutum)

Sample Date	NOEC	TUc (100/NOEC)	Comments
8-17-14	100%	1.0	Lab water control
10-19-14	100%	1.0	Lab water control
01-11-15	100%	1.0	Lab water control
06-07-15	100%	1.0	Lab water control

Testing continues quarterly.

Table 6.3 – Ceriodaphnia (C. dubia)

Sample Date	Survival		Reproduction	
	NOEC	TUc (100/NOEC)	NOEC	TUc (100/NOEL)
8-17-14	100%	1.0	100%	1.0
10-19-14	100%	1.0	100%	1.0
01-11-15 [1]	< 100%	> 1.0	<100%	> 1.0
02-01-15 [2]	100%	1.0	100%	1.0
02-15-15 [3]	100%	1.0	100%	1.0
03-01-15 [4]	100%	1.0	100%	1.0
03-15-15 [5]	100%	1.0	100%	1.0
06-07-15 [6]	100%	1.0	< 100%	> 1.0

[1] January 2015: Toxicity to survival and reproduction initiates accelerated monitoring.
[2] Accelerated Test #1 of 4
[3] Accelerated Test #2 of 4
[4] Accelerated Test #3 of 4
[5] Accelerated Test #4 of 4
[6] June 2015: Toxicity to reproduction initiates accelerated monitoring.

Table 6.4 – Larval Fathead Minnow (Pimephales Promelas)

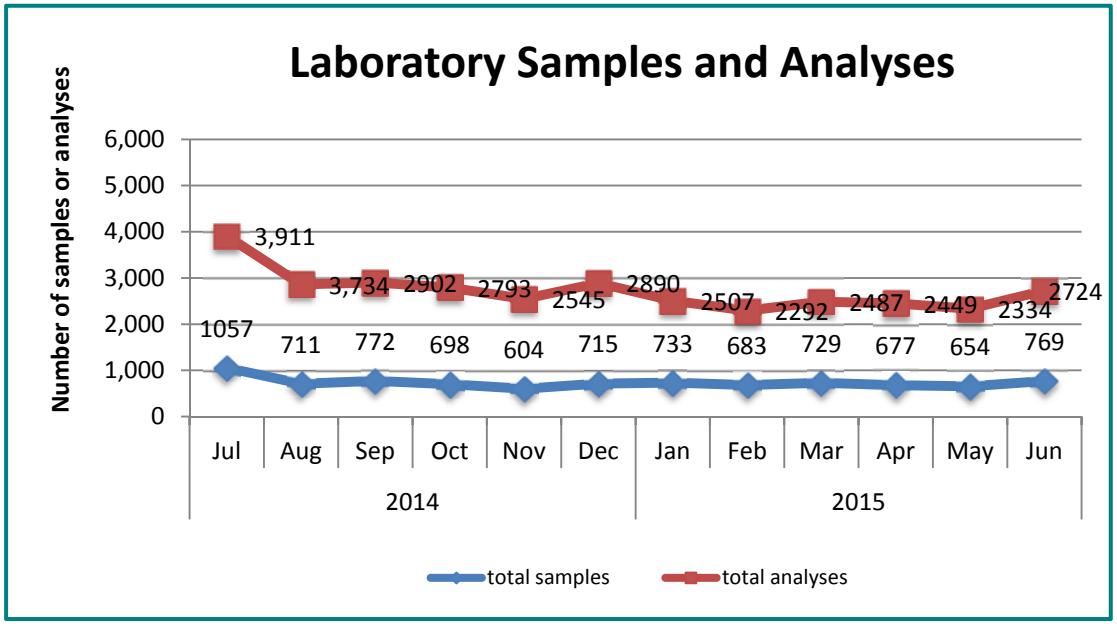
Sample Date	Survival		Growth	
	NOEC	TUc (100/NOEC)	NOEC	TUc (100/NOEL)
8-17-14	100%	1.0	100%	1.0
10-19-14	100%	1.0	100%	1.0
01-11-15	100%	1.0	100%	1.0
06-07-15	100%	1.0	100%	1.0

Testing continues quarterly.

Table 6.5 – Effluent Ammonia-N Summary

EFF-001 (Final Effluent)	Regulatory NH3-N, mg/L	Process Control NH3-N, mg/L
Monthly Minimum	<0.5	0.3
Monthly Maximum	1.5	2.2
Monthly Average	<0.8	0.7
Number of samples	19	30

Figure 6.A – Laboratory Samples and Analyses



Laboratory Samples and Analyses – Comparison Year 2013-2014

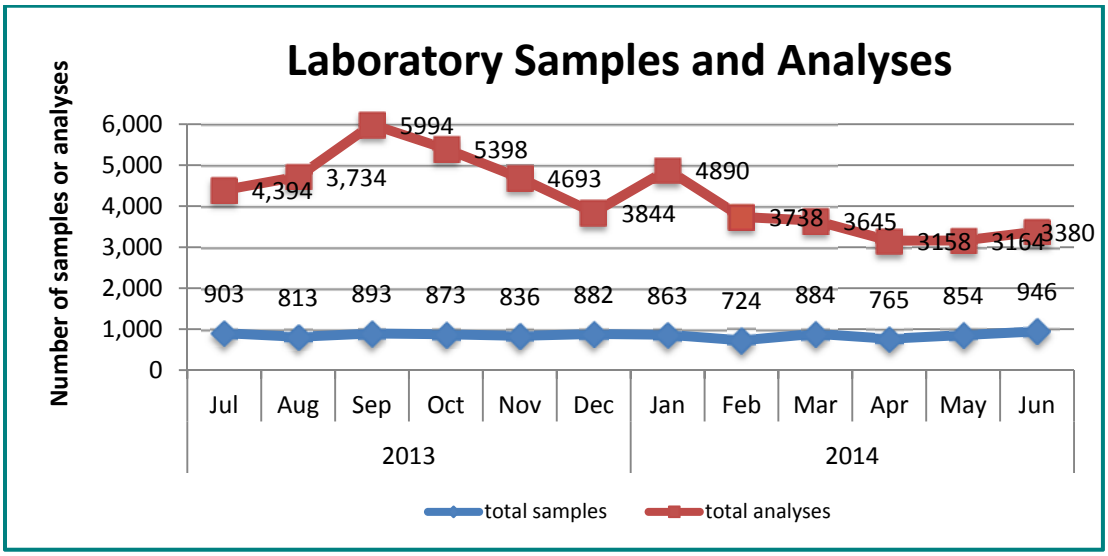
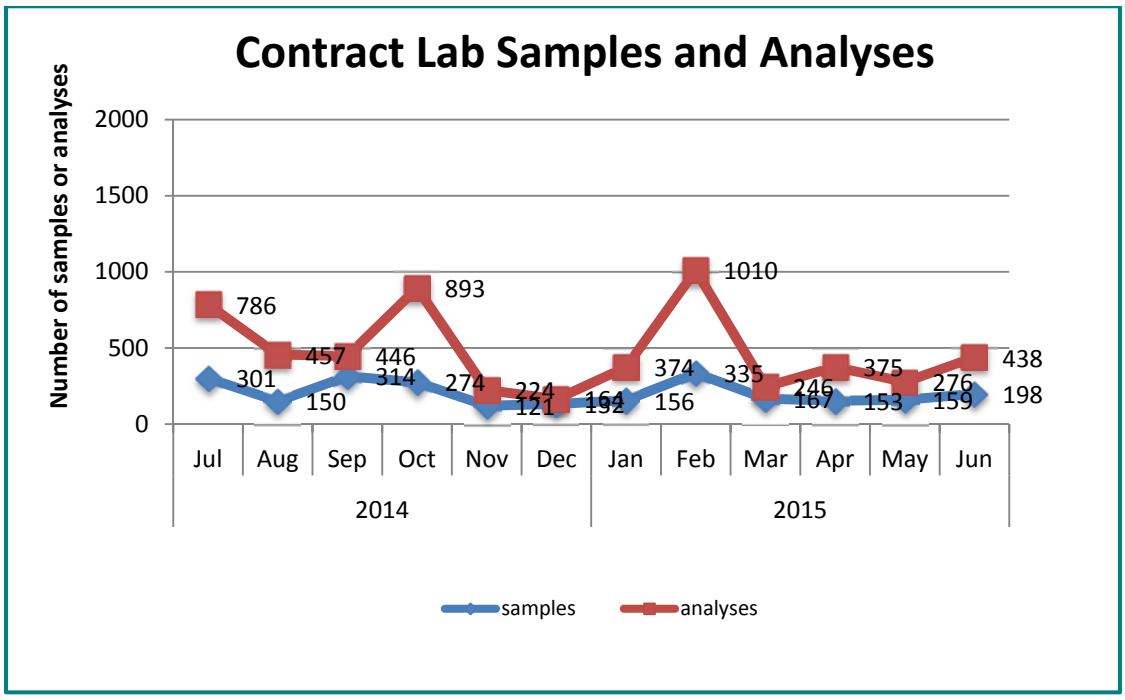


Figure 6.B – Contract Laboratory Samples and Analyses



Contract Laboratory Samples and Analyses – Comparison Year 2013-2014

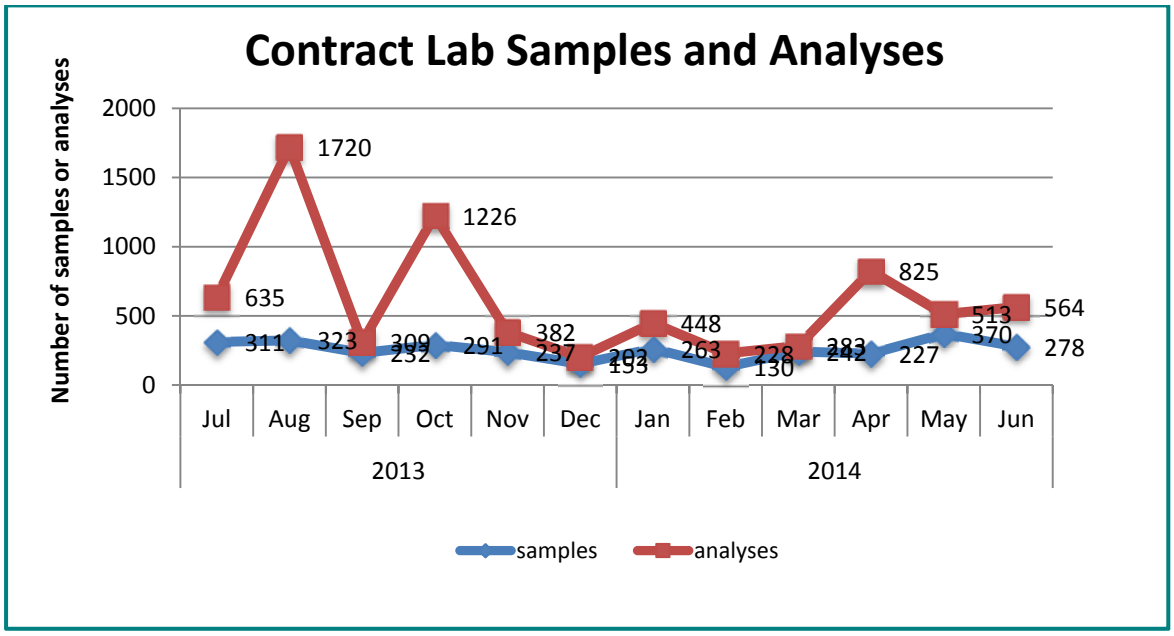
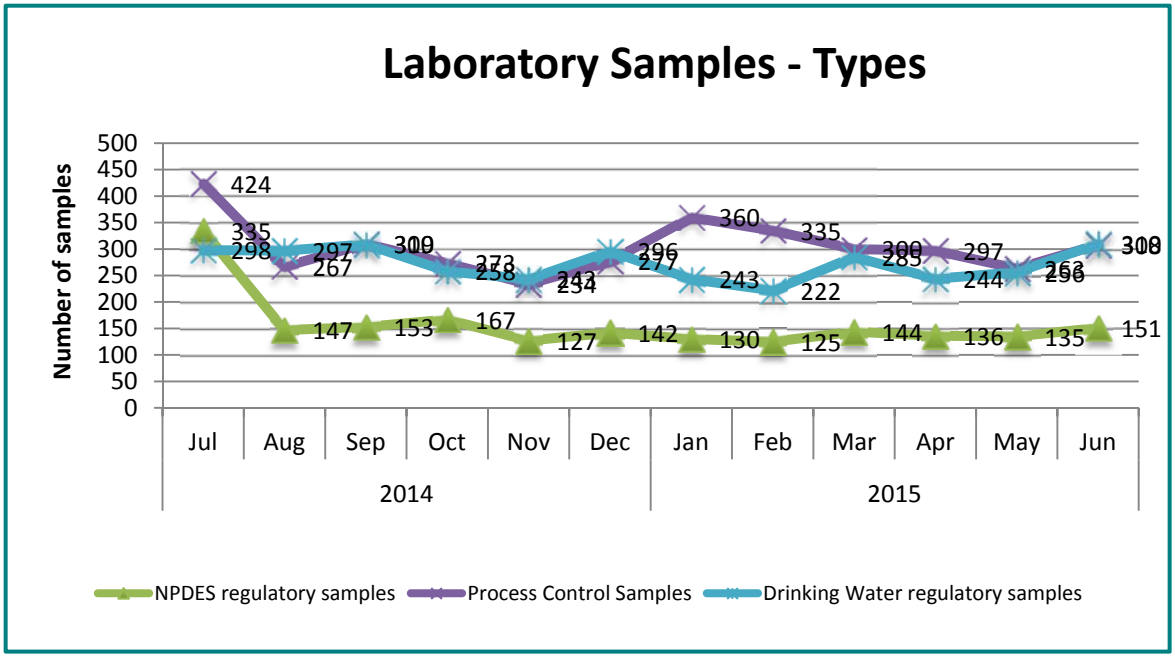
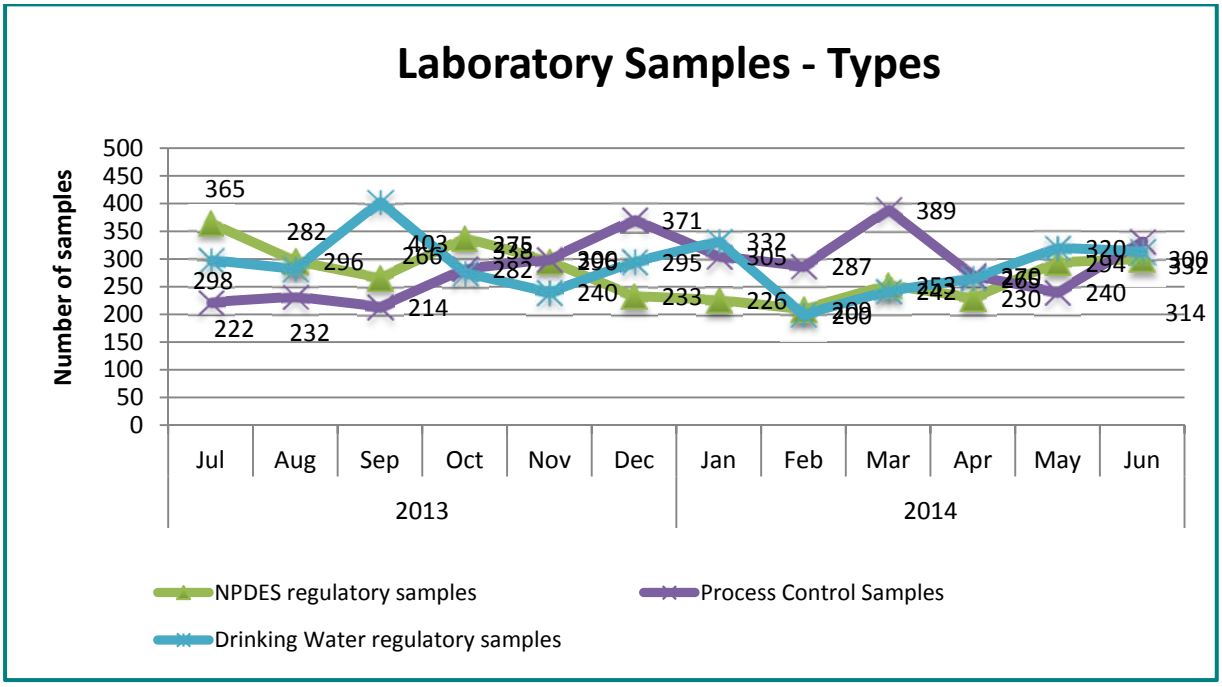


Figure 6.C – Laboratory Sample Types



Laboratory Sample Types Comparison Year 2013-2014



Engineering

Figure 7.A – Development Reviews Received and Completed

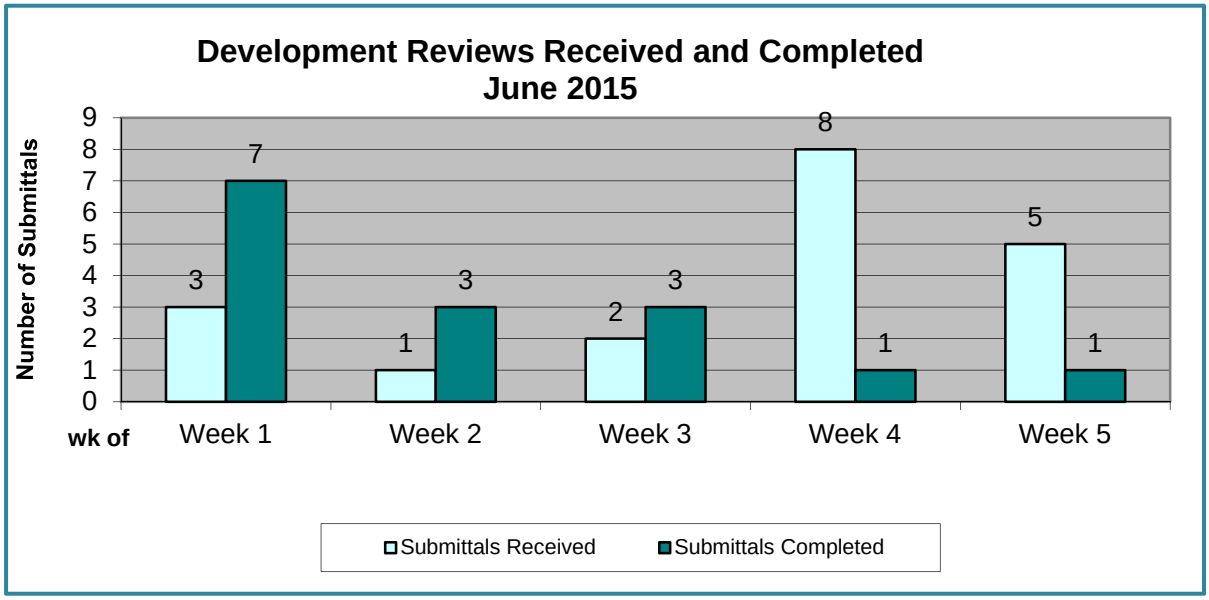
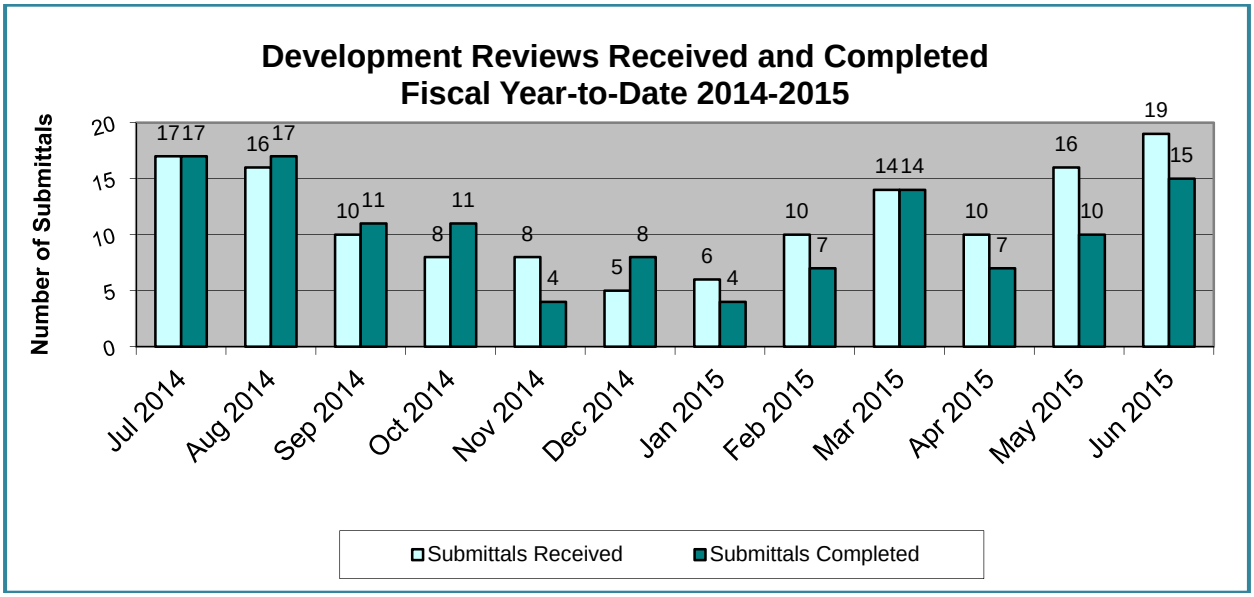


Figure 7.B – Development Reviews Received and Completed Year-to-Date



Development Reviews Received and Completed – Comparison Year 2013-2014

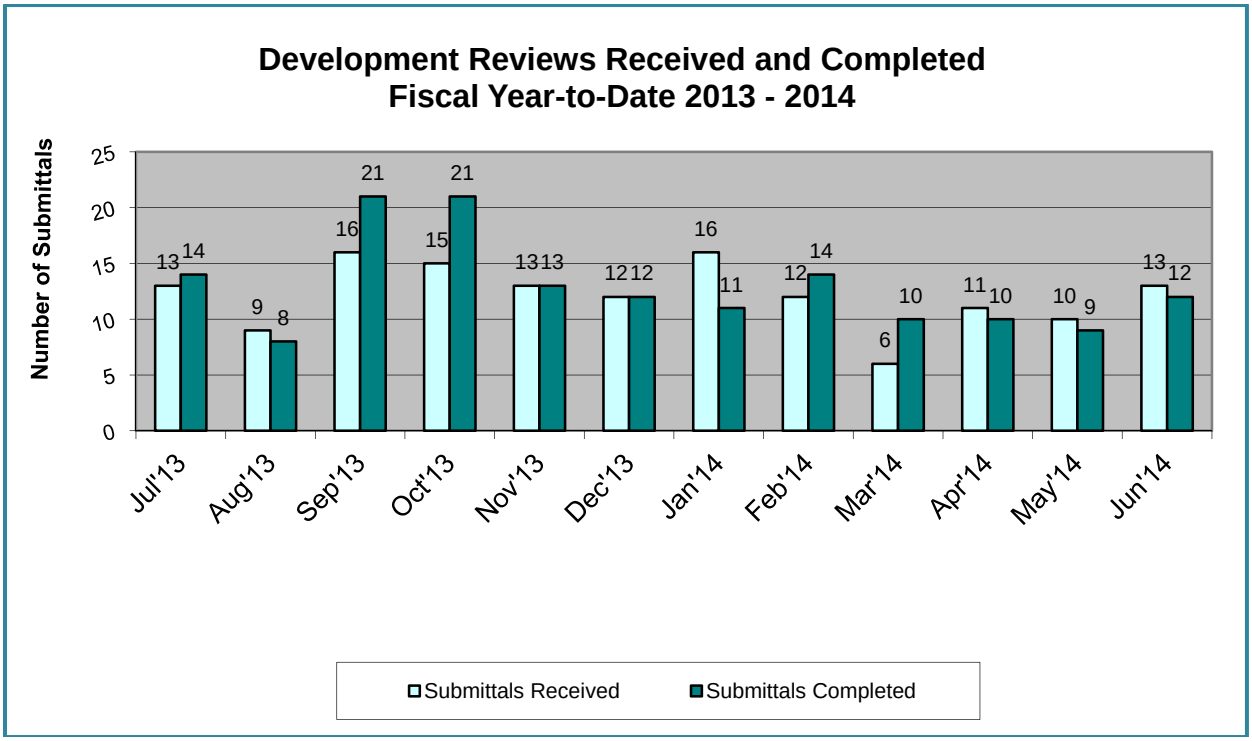
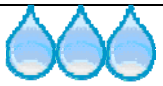
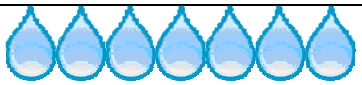


Table 7.1 – Nonpotable, Stormwater, Water, and Wastewater Projects

LEGEND			
Project Type		*Phase Of Project*	
Nonpotable	Purple		Beginning Planning
Stormwater	Magenta		Planning Completed
Water	Blue		Beginning Design
Wastewater	Green		Ending Design
			Beginning Construction
			Construction Continuing
			Project Completed

Projects	*Project Type*	*Cost*	*Project Phase*
Capital Improvement and Energy Management Plan EIR (M12019)		$400,000	
CAT Engine Replacement – Phase I & II (M08001)		$282,800	
Feather River Water Main Crossing at 14-Mile Slough Project (M07056)		$322,000	
Pershing Sewer Crossing at the Calaveras River (M13005)		$1,649,000	
Rehabilitate Thornton Road Sanitary Pump Station (M13009)		$209,000	
RWCF Headworks Rehabilitation Project (M13007)		TBD	
Smith Canal Sanitary Sewer Pump Station – Wet Well (M09093)		$2,600,000	

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Stormwater

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Table 8.1 – Stormwater Maintenance Activity Summary

	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	FISCAL YTD
Repairs – Storm													
# of Catch Basin Lateral Repairs/New	0	0	0	0	0	0	0	0	0	0	0	0	0
Catch Basin Lateral Repairs/New, Linear Feet	0	0	0	0	0	0	0	0	0	0	0	0	0
# of Storm Main Line Repairs	0	0	0	1	0	0	0	0	0	0	0	0	1
Storm Main Line Repairs, Linear Feet	0	0	0	0	0	0	0	0	0	0	0	0	0
# of Catch Basin Storm Repairs/New	1	0	0	0	0	0	0	1	0	1	5	0	8
# of Storm Maintenance-hole Repairs/New	0	0	1	1	0	0	0	0	0	1	2	0	5
Storm – Maintenance													
# of Catch Basin Laterals Cleaned	23	17	44	21	14	131	9	25	0	9	0	12	305
Catch Basin Laterals Jetted, Linear Feet	12	100	20	500	560	650	250	275	0	100	0	600	3,067
# of Catch Basin Laterals Rodded	0	0	0	0	0	16	1	1	0	0	0	0	18
Catch Basin Laterals Rodded, Linear Feet	0	0	0	0	0	635	50	95	0	0	0	0	780
# of Storm Main Lines Jetted	1	0	1	0	1	1	0	3	0	5	4	0	16
Storm Main Lines Jetted, Linear Feet	437	0	250	0	210	400	0	634	0	1,842	550	0	4,323
# of Storm Main Lines Rodded	0	0	0	0	0	0	0	0	0	0	0	0	0
Storm Main Lines Rodded, Linear Feet	0	0	0	0	0	0	0	0	0	0	0	0	0
# of Storm Catch Basins Stolen	17	16	15	35	14	22	19	6	13	6	7	5	175
# of Storm Maintenance-holes Cleaned	3	0	1	0	14	2	0	2	1	2	1	0	26
# of Storm Pump Stations Cleaned	0	1	12	14	6	0	0	0	4	3	5	0	45
# of tons of Debris Removed from Storm Stations	0	.25	13.40	12.35	4.65	0	0	0	2.60	1.25	1.35	0	35.85
# of Storm Catch Basins Inspected	827	513	122	8	0	0	0	0	73	379	263	684	2,869
# of Storm Catch Basins Stenciled	299	189	23	0	0	0	0	0	12	119	136	422	1,200
# of Storm Event Calls	0	0	1	0	14	850	0	16	0	82	0	0	963
Storm Event Line Clean-up, Linear Feet	0	0	0	0	0	1,871	0	0	0	125	0	0	1,996
TV Storm Line Segment Inspections	2	4	3	0	0	0	0	1	0	0	2	2	14
TV Storm Line Segment Inspections, Linear Feet	198	184	121	0	0	0	0	286	0	0	1,069	100	1,958
Spoils Storm Pump Stations / CBs - # of Loads	1	0	0	23	0	0	1	0	3	0	0	0	28
Spoils Storm Pump Stations / CBs - Tonnage	12.18	0	0	131.83	0	0	7.77	0	35.90	0	0	0	187.68

(Chart totals do not include work done by contractors.)
(Storm Catch Basins Cleaned is now being combined with # of Catch Basin Laterals Jetted, and added is Storm Catch Basins stolen)

Comparison Year 2013-2014 – Stormwater Maintenance Activity Summary

	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	FISCAL YTD
Repairs – Storm													
# of Catch Basin Lateral Repairs/New	0	0	0	0	0	0	0	1	0	0	0	0	1
Catch Basin Lateral Repairs/New, Linear Feet	0	0	0	0	0	0	0	38	0	0	0	0	38
# of Storm Main Line Repairs	0	1	0	1	0	0	0	0	0	0	0	0	2
Storm Main Line Repairs, Linear Feet	0	3	0	10	0	0	0	0	0	0	0	0	13
# of Catch Basin Storm Repairs/New	0	1	0	0	0	0	0	0	2	0	1	0	4
# of Storm Maintenance-hole Repairs/New	0	0	0	0	0	0	2	0	2	0	0	0	4
Storm – Maintenance													
# of Catch Basin Laterals Jetted	17	15	1	40	20	5	7	32	13	3	5	1	158
Catch Basin Laterals Jetted, Linear Feet	325	410	50	1,700	850	50	180	1,230	700	140	300	50	5,935
# of Catch Basin Laterals Rodded	0	1	0	2	0	0	0	0	1	1	0	0	5
Catch Basin Laterals Rodded, Linear Feet	0	123	0	12	0	0	0	0	85	79	0	0	299
# of Storm Main Lines Jetted	1	2	5	4	1	0	3	0	1	0	1	1	18
Storm Main Lines Jetted, Linear Feet	400	550	1,623	825	82	0	992	0	100	0	760	154	5,332
# of Storm Main Lines Rodded	0	0	0	1	0	0	0	0	1	0	0	0	2
Storm Main Lines Rodded, Linear Feet	0	0	0	250	0	0	0	0	85	0	0	0	335
# of Storm Catch Basins Cleaned	47	9	2	40	20	5	7	32	16	3	5	1	186
# of Storm Maintenance-holes Cleaned	4	3	1	3	1	2	1	0	0	0	0	1	15
# of Storm Pump Stations Cleaned	10	10	3	0	0	0	0	0	0	0	3	0	26
# of tons of Debris Removed from Storm Stations	10.45	11.25	0.30	0	0	0	0	0	0	0	.70	0	22.70
# of Storm Catch Basins Inspected	884	1,972	902	19	2	3	1	0	0	0	286	1,658	4,069
# of Storm Catch Basins Stenciled	141	473	211	4	0	0	0	0	0	0	97	784	926
# of Storm Event Calls	0	0	15	0	84	0	0	391	16	14	14	0	534
Storm Event Line Clean-up, Linear Feet	0	0	49	0	62	0	0	1,060	785	0	0	0	1,956
TV Storm Line Segment Inspections	0	0	0	1	0	0	0	0	0	0	0	15	1
TV Storm Line Segment Inspections, Linear Feet	0	0	0	364	0	0	0	0	0	0	0	1,130	364
Spoils Storm Pump Stations / CBs - # of Loads	0	1	0	0	0	0	0	0	0	0	0	0	1.00
Spoils Storm Pump Stations / CBs - Tonnage	0	13.33	0	0	0	0	0	0	0	0	0	0	13.33

(Chart totals do not include work done by contractors.)

Table 8.2 – Inspections

	Jul	*Aug*	*Sep*	*Oct*	*Nov*	*Dec*	*Jan*	*Feb*	*Mar*	*Apr*	*May*	*Jun*
Total Sites	24	25	24	23	22	21	23	22	19	19	18	16
Inspections	24	25	24	23	22	21	23	22	19	19	18	16
Verbal Warnings	9	11	9	10	9	8	7	6	5	8	8	5
Correction Orders	3	6	4	8	8	6	6	8	3	6	5	2
Notice to Clean	5	6	9	8	9	6	4	5	5	5	5	3
Notice of Violation	0	0	0	1	0	0	0	0	0	0	0	0
Admin. Citations	0	0	0	1	0	0	0	0	0	0	0	0
Referred to RWQCB	0	0	0		0	1	0	1	0	0	0	0

Inspections – Comparison Year 2013-2014

Total Sites	*Jul*	*Aug*	*Sep*	*Oct*	*Nov*	*Dec*	*Jan*	*Feb*	*Mar*	*Apr*	*May*	*Jun*
Total Sites												
Inspections	14	15	19	20	19	21	19	20	19	20	23	26
Verbal Warnings	7	5	8	8	5	8	3	5	4	8	9	15
Correction Orders	0	9	7	8	4	8	2	5	4	8	8	6
Notice to Clean	0	0	4	5	4	4	2	2	5	5	6	4
Notice of Violation	0	0	0	0	0	2	0	0	0	0	0	0
Admin. Citations	0	0	0	0	0	2	0	0	0	0	0	0
Referred to RWQCB	0	0	0	0	0	1	0	0	0	0	0	0

Table 8.3 – Outreach

Description	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	FYTD
Utility Bill Insert	**48,666**												**48,666**
Literature Distribution													
Presentations / Study Guides													
Tour - UOP Engineering Class													
Multi-Media – Radio, TV													
Radio & TV													
Ports Monster Wall													
Comcast Website													
Theater Ads													
Newspaper/Magazines													
Website/Hotline													
Events													
National Night Out		350											350

Outreach - Comparison Year 2013-2014

Description	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	FYTD
Utility Bill Insert	**59,129**	**52,913**	**52,886**	**53,014**	**52,859**	**52,863**	**52,708**	**52,689**	**52,950**			**52, 867**	**429,061**
Literature Distribution			**1,000**	**200**						**40**			**1,200**
Presentations / Study Guides											**2**		**2**
Tour - UOP Engineering Class								**28**			**0**	**0**	**28**
Multi-Media – Radio, TV											**0**	**0**	
Radio & TV		**100,000**			**256,000**						**0**	**0**	**356,000**
Ports Monster Wall	**42,164**	**38,205**	**259**	**2,844**	**4,063**								**87,535**
Comcast Website	**63,405**	**188,675**			**188,675**	**188,675**					**0**	**0**	**629,430**
Theater Ads					**44,744**						**0**		**44,744**
Newspaper/Magazines	**100,000**	**133,000**	**100,000**		**100,000**	**100,000**					**0**	**0**	**533,000**
Website/Hotline	**95**	**128**	**108**	**127**	**33,810**	**128**	**314**	**30**	**40**	**50**	**37**	**39**	**36,044**
Events										**2**	**7**		**9**
Family Day in the Park			**5,000**										**5,000**
Stockton Is Magnificent				**500**									**500**
Hmong New Year					350								350

Table 8.4 –Stormwater Pumping Facilities Work Order Summary

	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN
Pump Station Mechanical												
Corrective Maintenance	16	16	17	7	9	25	18	11	19	19	23	15
% Completed	87.5	81.3	82.4	42.9	100.0	72.0	72.2	90.9	94.7	31.6	0.0	53.3
% Backlog	12.5	18.7	17.6	57.1	0.0	28.0	27.8	9.1	5.3	68.4	100.0	46.7
Preventive Maintenance												
% Backlog	44.0	73.6	69.2	74.4	34.5	51.7	75.3	61.2	55.3	72.2	97.1	51.0
Pump Station Electrical												
Corrective Maintenance	10	13	15	5	17	21	8	9	7	16	7	1
% Completed	90	76.9	80.0	40.0	70.6	95.2	87.5	88.9	85.7	75.0	85.7	0.0
% Backlog	10	23.1	20.0	60.0	29.4	4.8	12.5	11.1	14.3	25.0	14.3	100.0
Preventive Maintenance												
% Backlog	N/A	N/A	94.7	100.0	100.0	80.0	100.0	100.0	86.3	100.0	100.0	93.3

Work Order Summary - Comparison Year 2013-2014

	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN
Pump Station Mechanical												
Corrective Maintenance	9	18	11	18	14	18	14	19	40	18	27	16
% Completed	33.3	72.2	90.9	66.7	92.9	88.9	100	94.7	30	50	73.9	87.5
% Backlog	66.7	27.8	9.1	33.3	7.1	11.1.	0	5.3	70	50	26.14	12.5
Preventive Maintenance												
% Backlog	53.1	23.9	43.6	33.4	41.9	44.8	51.6	36.2	12.4	15.2	62.6	45.5
Pump Station Electrical												
Corrective Maintenance	8	8	16	8	8	13	10	10	8	11	9	10
% Completed	75	75	81.3	87.5	75	100	100	100	75	100	77.8	90.0
% Backlog	25	25	18.7	12.5	25	0	0	0	25	0	22.2	10.0
Preventive Maintenance												
% Backlog	N/A	N/A	100.0	N/A	N/A	87.5	N/A	N/A	62.5	N/A	100.0	N/A

Administration

Safety and Training Activities

Table 9.1 – Summary of Unsafe Conditions or Acts

	Current Month	*Calendar Year*
Number of Unsafe Conditions or Acts Reported	0	2
Number of Vehicle Incidents: No Fault of Employee	0	4
Number of Vehicle Incidents: Fault of Employee	0	4

Table 9.2 – Summary of Work-Related Injuries and Illnesses

	Current Month	*Calendar Year*
Number of Cases	2	5
Number of Cases with Lost Time	0	0
Number of Cases with Work Restrictions	1	1

Table 9.3 – Summary of Safety Training

	Hours Delivered	*# of Attendees*	*Total Attendee Hours*
Tailgate Sessions			
Heat Illness	1	8	8
Trips and Falls	1	7	7
Safety Vest	1	7	7
Training			
Confined Space Training	24	15	360
Forklift Training	7	8	56
TOTAL	34	45	438

Human Resources Operational Activities

Table 9.4 – Staffing Summary

Divisions	*# of Positions*	*# of Employees*	*Vacancies*	*Change (+/-)*
Administration	17	13	4	-1
Financial Services	5	4	1	
Collections	65	61	4	-1
Engineering	14	13	1	+1
Environmental Control	7	7	0	
Laboratory	7	5	2	+1
Wastewater Treatment	50	45	5	
Water Treatment/Distribution	28	27	1	+1
Water Resources/Treatment	24	21	3	
Total Staff Count	217	196	21	+3 / -2

Table 9.5 – Overtime Summary

Division	*Jul*	*Aug*	*Sep*	*Oct*	*Nov*	*Dec*	*Jan*	*Feb*	*Mar*	*Apr*	*May*	*Jun*
Administration	38.5	43.25	28.25	55.25	55	45.5	82.25	79.75	39.25	3.75	10.25	7.75
Financial Services	0	0	15.5	0	0	0	0	9	8	0	0	0
Collections	276.75	438	368	729.5	571.25	663	648.75	656.75	441	707.50	553	118.75
Engineering	14	6.5	26	31.5	15	8	28.50	6.5	4.5	2.5	0	0
Env. Control	55	11	67.50	91.5	33	23.25	33.75	22.5	31.75	51	36.5	21.25
Laboratory	28.25	47.75	60.75	45.25	58.75	30.5	65.5	59.5	61	53.5	88	46
Maintenance	170	182	340	395.5	286.25	179.75	202.75	338.75	232.75	333.75	271	184.75
WW Treatment	601	688.50	775.50	707	722.50	651.25	614.5	441.5	716.5	538.5	836.	538.25
Stormwater	0	2	17.5	0	0	0	0	2.5	26.5	0	0	0
Water Distribution	182.5	166.5	190	245	67.75	118.25	134.25	42.25	130.25	120.75	94.75	182.25
Water Resources	0	4	21.5	0	0	0	0	0	0	7	7.5	0
Water Treatment	371.25	459.75	332.25	323.5	427	424	360.75	510	397	365	556.25	420.50
TOTALS	1,737.25	2,049.25	2,242.75	2,624	2,236.50	2143.50	2171.00	2169.00	2088.50	2183.25	2453.25	1519.50

Overtime Summary – Comparison Year 2013-2014

Division	*Jul*	*Aug*	*Sep*	*Oct*	*Nov*	*Dec*	*Jan*	*Feb*	*Mar*	*Apr*	*May*	*Jun*
Administration	21	49.25	49.50	21	15.25	27.50	38	32.50	37.75	25.25	30.50	21.50
Financial Services	8	1.75	11.50	9.75	6	8.50	13	22	0.	0	0	0
Collections	688.25	815.50	747.50	515.25	891.50	445.25	276	355.50	168.50	142	348	364.75
Engineering	14	6	2.50	39.50	25.50	15	25	3	0	10	0	0
Env. Control	0.50	14.50	51	11	6	22.75	60	52.75	67	27.50	89.75	27.5
Laboratory	9.25	39.50	47.50	0	27	8	14.50	3	42.25	19.75	74	29.50
Maintenance	171.25	280.50	307.75	187.25	275.25	391.25	301	290	282.50	177.75	427.50	272
WW Treatment	726.25	809.75	655.50	816.50	1154.75	797.50	915	840	904.75	770.75	950.50	610.5
Stormwater	93.75	69.75	29.25	35.75	56.25	0	15	24.50	62.25.	21.25	32.75	58.5
Water Distribution	128.25	112.25	144.75	133.25	57.50	51.25	96.25	104.75	117.75	89	164.50	90.75
Water Resources	0	19	0	5	7	0.25	3	15	16	16.25	27.50	18.75
Water Treatment	367.75	543	318.50	509	487	377.25	342	259.50	274.25	292.50	449.50	493.75
TOTALS	2,228.25	2,760.75	2,365.25	2,283.25	3,009	2,144.50	2,098.75	2,002.50	1,973	1,592	2,594.50	1,987.50

Appendix A

Water

Title 22 Compliance Water Well Sampling

Summary Well System Operations

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Title 22 Compliance - Drinking Water Monitoring

Compliance Sampling

Source (Well # or DS)	Sample Date	Parameter
10R	06-09-15	Qrtly EC/TDS
21	06-09-15	Qrtly EC/TDS
19	06-09-15	Qrtly EC/TDS
29	06-09-15	Qrtly EC/TDS
30	06-09-15	Qrtly EC/TDS
27	06-10-15	Qrtly EC/TDS
31	06-10-15	Qrtly EC/TDS
32	06-10-15	Qrtly EC/TDS
3R	06-10-15	Qrtly EC/TDS
SS3	06-10-15	Qrtly EC/TDS

Exceptions

(none)

Well Status Changes

(none)

Other

(none)

CITY OF STOCKTON MONTHLY SYSTEM OPERATION
JUNE 2015

30 WELL STA. No.	WELL STATION LOCATION	MONTHLY OPERATIONS HRS OPERATED	PROD. MG	RATE MGD	RATE GPM	WELL SOUNDING	MONTHLY POWER KWH	KWH/MG	GAS POWER 1000FT3	1000FT3 per MG	MONTHLY CHEMICALS CL2 TOTAL LBS.	AQUA-MAG TOTAL LBS.
NORTH WELL SYSTEM												
1	PARKWOODS	**0.00**	**0.00**	0.00	0		320	0			0	0
4	VILLA DORADO	**0.00**	**0.00**	0.00	0		600	0			0	0
7	GALLOWAY	**0.00**	**0.00**	0.00	0		0	0			0	
9	DON CARLOS	**0.00**	**0.00**	0.00	0		199	0			0	
10R	VALVERDE PARK	**456.10**	**62.79**	2.09	2295		80040	1275			207	
11	INGLEWOOD	**0.00**	**0.00**	0.00	0		80	0			0	0
15	GLASGOW	**0.00**	**0.00**	0.00	0		160	0			0	0
16	ROYAL OAKS	**0.00**	**0.00**	0.00	0		146	0		0	0	0
18	HICKOCK	**0.00**	**0.00**	0.00	0		0	0	3.0		0	
19	MORADA/WEST LANE	**73.10**	**2.93**	0.10	668		10960	3741			36	
20	WEST LANE/MOSHER	**0.00**	**0.00**	0.00	0		71983	0		0	0	
21	CORTEZ PARK	**7.40**	**0.68**	0.02	1538		1280	1874	0.0		4	
24	SAFFRON	**0.00**	**0.00**	0.00	0		360	0			0	
25	PANELLA PARK	**0.00**	**0.00**	0.00	0		0	0		0	0	
26	AUTO CENTER	**0.00**	**0.00**	0.00	0		0	0	0.0	0	0	
27	HORSE PARK	**36.60**	**4.18**	0.14	1902		5800	1389	0.0		30	
28	BLOSSOM RANCH	**0.00**	**0.00**	0.00	0		560	0			0	
28	alternate electric meter				monitor well #17		0	0			0	
29	BAXTER PARK	**0.80**	**0.06**	0.00	1229		880	14915			1	
30	GRIDER	**0.20**	**0.00**	0.00	0		880	0			0	
31	IVANO LANE*	**519.10**	**62.18**	2.07	1996		84000	1351			262	
32	HWY 99 FRONTAGE*	**137.70**	**16.20**	0.54	1961		22720	1402			48	
3R	7400 N. WEST LANE	**103.30**	**12.97**	0.43	2093		16160	1246			43	
NWR	NORTHWEST RESERVOIR						31200				150	
14 Mile	14 MILE RESERVOIR						24800				234	
I	**TOTAL SYSTEM PRODUCTION**	**1,334.30**	**161.99**			**Total N. Elec->**	**353128**		**3.0**		**1015**	**0**
	TOTAL STOCKTON EAST PURCHASED WATER		**0.00**			**N. Well Elec->**	**297128**					
	DWTP		**659.16**			**N. Res Elec->**	**56000**					
	TOTAL NORTH SYSTEM		**821.15**									
	DAILY AVERAGE	**44.5**	**27.37**				**11771**		**0.1**		**34**	**0**
SOUTH WELL SYSTEM												
SS1	QUANTAS	0.00	0.00	0.00	0		1344	0	0.0	0	0	0
SS2	N. ARCH FRONTAGE	42.60	3.58	0.64	1400		22984	6423			109	
SS3	FRONTIER*	406.00	44.78	0.00	1838		59600	1331			61	
SS4	AIRPORT SOUTH	0.00	0.00	0.00	0		0	0			0	0
SS5	AIRPORT NORTH	0.00	0.00	0.00	0		0	0			0	0
SS8	SHROPSHIRE PARK	0.00	0.00	0.00	0		240	0			0	
SS9	B ST. & LITTLEJOHN	0.00	0.00	0.00	0		880	0			0	
Weston	WESTON RANCH RESERVOIR						14080				131	
K	**TOTAL SOUTH WELL PRODUCTION**	448.6	**48.36**									
SSA	SO SYS AQUEDUCT		**0.00**			**99 Frtng Bstr ->**	127				0	
	TOTAL SOUTH SYSTEM		**48.36**			**Tot. S. Elec->**	**99255**		**0.0**		**301**	**0**
	DAILY AVERAGE	**15.0**	**1.61**				**3309**		**0.0**		**10**	**0**
FILBERT/MLK INTERCONNECT						**S. Wells Elec->**	**85048**					
	FILBERT INTERCONNECT		5.74			**S. Res Elec->**	**14080**					
	DAILY AVERAGE		**0.19**			**S. Bstr Elec->**	**127**					

CITY & COUNTY INTERCONNECTIONS		**Meter Reading**	
F	PLYMOUTH ROAD	933395	18.44
E	PERSHING	199322	10.33
G	GREELEY	506650	9.84
M	PORTOLA AVENUE	51867	1.94
N	THORNTON	939933	9.42
R	BALBOA	107	0.08
			50.06
			1.67

Appendix B

Environmental Compliance

Monitored Industrial User Charges

Customer Charges Report

Septic Waste Haulers' Charges

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May-15

MONITORED INDUSTRIAL USER MONTHLY CHARGES

6/24/2015

CUST ID #	COMPANY	CHG CODE	STANDBY FLOW	STANDBY BOD	STANDBY TSS	SUB-TOTAL	LOADING FLOW	LOADING BOD	LOADING TSS	OTHER	SUB-TOTAL	ADMIN FEE	TOTAL
6305	American Sunny Foods	SIM15	0.48	1.20	0.45	$432.17	0.02	0.05	0.03	$0.00	$11.34	$22.40	$465.91
86601	Boretech Resource Recovery		0.33	0.28	0.03	$224.25					$0.00	$22.40	$246.65
85629	Foodliner	SIM16	0.51	12.51	1.25	$1,592.43	0.31	5.88	0.49	$0.00	$397.57	$22.40	$2,012.40
84901	Niagara 811 Zephyr	SIM28	7.86	12.78	3.29	$4,896.06	2.95	0.36	0.49	$0.00	$1,555.25	$22.40	$6,473.71
6290	California Spray Dry Co.	SIM2	5.10	118.00	28.00	$16,329.10	0.08	0.00	0.00	$0.00	$43.42	$22.40	$16,394.92
4990	California Tank Lines	SIM17	1.00	14.18	4.90	$2,299.76	0.53	3.56	2.40	$0.00	$535.62	$22.40	$2,857.78
6240	Campbell Soup Supply	SIM12	65.00	330.00	230.00	$86,423.65	0.00	0.00	0.00	$0.00	$0.00	$22.40	$86,446.05
43328	Cintas Corporation	SIM24	3.60	23.00	12.00	$5,188.52	2.62	6.92	2.46	$0.00	$1,732.34	$22.40	$6,943.26
6245	Ingredion Incorporated	SIM3	40.45	458.58	93.50	$74,628.34	24.51	357.54	71.32	$0.00	$29,437.34	$22.40	$104,088.08
83095	California Health Care Facility	USI6				$0.00	1.69			$0.00	$4,433.32	$22.40	$4,455.72
43838	Midway, Crosstown Commons	SIM4	3.00	10.00	0.30	$2,762.38	0.21	0.00	50.00 0.00	$0.00	$106.01	$22.40	$2,890.79
6270	Diamond of California	SIM5	8.00	210.00	145.00	$35,099.53	1.85	31.83	14.55	$0.00	$2,918.11	$22.40	$38,040.04
75519	Dole Packaged Foods LLC Stock	SIM30	1.22	10.30	5.22	$2,077.62	0.24	1.73	0.39	$0.00	$209.95	$22.40	$2,309.97
5700	Duraflame	SIM14	3.10	3.75	1.75	$1,962.68	0.08	0.02	0.01	$0.00	$40.02	$22.40	$2,025.10
5100	San Joaquin County French Camp	USI4					7.73			$0.00	$20,245.88	$22.40	$20,268.28
34202	Grimaud Farms	SIM19	0.80	6.00	2.00	$1,191.63	0.49	3.04	0.91	$0.00	$411.92	$22.40	$1,625.95
87452	CRM Co., LLC	SIM7	12.00	35.00	30.00	$12,590.02	0.00	0.00	0.00	$0.00	$0.00	$22.40	$12,612.42
47912	New Stockton Poultry	SIM25	0.75	8.37	3.04	$1,462.64	0.58	2.62	0.96	$0.00	$446.72	$22.40	$1,931.75
52651	Niagara	SIM27	6.00	2.04	0.69	$3,805.29	5.28	0.00	0.24	$0.00	$2,720.71	$22.40	$6,548.40
5625	Northern California Youth Center	USI3					4.95			$0.00	$12,971.49	$22.40	$12,993.89
61265	Pacific Ethanol	SIM29	4.50	3.94	1.45	$3,151.10	2.66	1.96	1.55	$0.00	$1,521.63	$22.40	$4,695.12
33746	Parsons Engineering Science	USI5					0.41			$0.00	$862.89	$22.40	$885.29
11149	Port of Stockton - Rough and Ready	USI2					7.61			$0.00	$19,940.64	$22.40	$19,963.04
6250	DTE	SIM10	5.50	7.62	7.62	$4,531.13	3.78	0.30	0.71	$0.00	$1,992.89	$22.40	$6,546.42
86113	Aramark	SIM18	6.93	29.60	6.77	$7,432.24	0.86	1.09	0.22	$0.00	$493.53	$22.40	$7,948.17
21193	Stockton Sanitary Wash Rack	SIM20	0.64	50.06	5.12	$5,546.87	0.13	31.35	0.18	$0.00	$1,198.16	$22.40	$6,767.43
42136	Tankerwash USA	SIM22	1.00	22.39	6.79	$3,221.20	0.69	17.41	3.44	$0.00	$1,171.89	$22.40	$4,415.49
86504	R&B Foods	SIM13	60.00	675.00	300.00	$121,515.60	0.22	0.01	0.07	$0.00	$116.57	$22.40	$121,654.57
40039	Unifirst Corp	SIM21	3.25	16.82	4.44	$3,856.46	2.10	11.57	2.32	$0.00	$1,626.10	$22.40	$5,504.96
80635	Wilmar Gavilon LLC	SIM31	1.00	1.50	1.00	$807.80	0.16	0.25	0.06	$0.00	$94.36	$22.40	$924.56
82602	Zacky Kitchens	SIM11	5.37	6.32	8.86	$4,416.08	1.57	3.11	1.67	$0.00	$1,011.92	$22.40	$5,450.40
APPROVED BY:			247.38	2069.23	903.46	$407,444.51	74.30	480.61	154.48	$0.00	$108,247.61	$694.40	$516,386.52

$516,386.52

May-15 **WORKSHEET FOR MONITORED INDUSTRIAL USER MONTHLY CHARGES** 6/24/2015

COMPANY	CURRENT FLOW READING	PREVIOUS FLOW READING	TOTAL MONTHLY FLOW	AVERAGE BOD	TOTAL 1,000 LBS BOD	AVERAGE TSS	TOTAL 1,000 LBS TSS	OTHER CHARGES	DATE ENTERED Mo-Yr.
American Sunny Foods	2469383	2453905	0.02	524	0.05	336	0.03	$0.00	Jun-15
Boretech Resource Recovery									Jun-15
Foodliner	25369463	25059459	0.31	2275	5.88	191	0.49	$0.00	Jun-15
Niagara 811 Zephyr	163441694	160490494	2.95	14.75	0.36	20	0.49	$0.00	Jun-15
California Spray Dry Co.	225150716	225066093	0.08	0	0.00	0	0.00	$0.00	Jun-15
California Tank lines	65794896	65266216	0.53	807	3.56	544	2.40	$0.00	Jun-15
Campbell Soup Supply	310317190	310317190	0.00	0	0.00	0	0.00	$0.00	Jun-15
Cintas Corporation	110855860	108235760	2.62	317	6.92	113	2.46	$0.00	Jun-15
Ingredion	749624768	725153056	24.51	1837	357.54	349	71.32	$0.00	Jun-15
California Health Care Facility	32519320	30827420	1.69	0	0.00	0	0.00	$0.00	Jun-15
Midway, Crosstown Commons	35630	15020	0.21	11.3	0.00	20	0.00	$0.00	Jun-15
Diamond of California			1.85	2066	31.83	945	14.55	$0.00	Jun-15
Dole Packaged Foods LLC Stockton	19352273	19107747	0.24	850	1.73	193.33	0.39	$0.00	Jun-15
Duraflame/Cal Cedar	4258015	4182128	0.08	25	0.02	14.5	0.01	$0.00	Jun-15
San Joaquin County - French Camp			7.73					$0.00	Jun-15
Grimaud Farms	88804861	88315246	0.49	745	3.04	222	0.91	$0.00	Jun-15
CRM Co., LLC	731215.00	731215.00	0.00	0	0.00	0	0.00	$0.00	Jun-15
New Stockton Poultry	63624804	63043178	0.58	539.25	2.62	197.5	0.96	$0.00	Jun-15
Niagara	335183050	329907021	5.28	0	0.00	6	0.24	$0.00	Jun-15
Northern California Youth Center	105053032	100102688	4.95	360	14.86	290	11.97	$0.00	Jun-15
Pacific Ethanol	84705397	82048723	2.66	88.25	1.96	70	1.55	$0.00	Jun-15
Parsons Engineering Science			0.41					$0.00	Jun-15
Port of Stockton - Rough and Ready			7.61					$0.00	Jun-15
DTE Company	68924592	65140252	3.78	9.5	0.30	22.5	0.71	$0.00	Jun-15
Aramark	911500	50000	0.86	152	1.09	30.50	0.22	$0.00	Jun-15
Stockton Sanitary Wash Rack	1655149	1524725	0.13	28825	31.35	166	0.18	$0.00	Jun-15
Tankerwash USA	51748673	51061322	0.69	3038	17.41	600	3.44	$0.00	Jun-15
R&B Foods	158214970	157916500	0.22	6	0.01	43	0.07	$0.00	Jun-15
Unifirst Corp	70316557	68212161	2.10	659	11.57	132.29	2.32	$0.00	Jun-15
Wilmar Gavilon LLC	5153274	4993560	0.16	190	0.25	44.3	0.06	$0.00	Jun-15
Zacky Kitchens	111708768	110139170	1.57	197	3.11	100	1.67	$0.00	Jun-15
TOTAL			74.30		495.47		116.45	$0.00	

Customer Monthly Charges Report

Date Range: 5/1/2015 to 5/31/2015

Customer ID	Customer Name	Total Gallons	Gallon Charge	Trip Charge	Other Charges	Total Charges
	A-1 Septic	0	$0.00	$0.00	$0.00	$0.00
10708	A & A Portables	47,355	$461.71	$1,482.00	$0.00	$1,943.71
78477	A & J Rentals	13,000	$126.75	$1,560.00	$0.00	$1,686.75
11153	AAA Septic & Rooter	51,000	$497.25	$1,170.00	$0.00	$1,667.25
11491	ABC Plumbing	2,400	$23.40	$78.00	$0.00	$101.40
10495	ET Services	0	$0.00	$0.00	$0.00	$0.00
6195	Frank & Jrs Sewer Service	72,450	$706.39	$1,794.00	$0.00	$2,500.39
6200	G & C Septic	6,700	$65.33	$156.00	$0.00	$221.33
4735	Parrish and Sons	171,000	$1,667.25	$3,744.00	$0.00	$5,411.25
75717	Premium Packing	3,600	$35.10	$312.00	$0.00	$347.10
6210	Richards Pumping	137,500	$1,340.63	$4,290.00	$0.00	$5,630.63
39444	Roto Rooter Sewer Service	223,864	$2,182.67	$5,226.00	$0.00	$7,408.67
74032	SRC Pumping Co	31,178	$303.99	$546.00	$0.00	$849.99
	Grand Totals	**760,047**	**$7,410.46**	**$20,358.00**	**$0.00**	**$27,768.46**

Approved By: _____

Septic Waste Haulers Monthly Charges

Date Range: 5/1/2015 to 5/31/2015

Customer Name	Truck License	Tank Capacity	Total Trips	Total Gallons	Per 1000 Gal $9.75	Per Trip $78.00	Additional Charges
A-1 Septic	52396P1	2500	0	0	$0.00	$0.00	$0.00
A&A Portables	54107P1	1600	9	14,400	$140.40	$702.00	$0.00
A&A Portables	8K42091	3495	9	31,455	$306.69	$702.00	$0.00
A&A Portables	8H57716	1400	0	0	$0.00	$0.00	$0.00
A&A Portables	27308L1	2000	0	0	$0.00	$0.00	$0.00
A&A Portables	7X14631	1500	1	1,500	$14.63	$78.00	$0.00
A&A Portables	44377M1	3495	0	0	$0.00	$0.00	$0.00
A&J Rentals	8A44004	650	20	13,000	$126.75	$1,560.00	$0.00
AAA Septic & Rooter	7S15871	3400	15	51,000	$497.25	$1,170.00	$0.00
ABC Plumbing	7X61008	2400	1	2,400	$23.40	$78.00	$0.00
ET Services	7M36196	4000	0	0	$0.00	$0.00	$0.00
Frank & Jrs Sewer Service	8M50181	3150	23	72,450	$706.39	$1,794.00	$0.00
G&C Septic	33525L1	3350	2	6,700	$65.33	$156.00	$0.00
G&C Septic	8W07059	3171	0	0	$0.00	$0.00	$0.00
Parrish and Sons	43308P1	3600	39	140,400	$1,368.90	$3,042.00	$0.00
Parrish and Sons	7H09683	3400	9	30,600	$298.35	$702.00	$0.00
Premium Packing	7L58449	900	4	3,600	$35.10	$312.00	$0.00
Richards Pumping	6L78686	2500	55	137,500	$1,340.63	$4,290.00	$0.00
Roto Rooter Sewer Services	7T36952	3382	52	175,864	$1,714.67	$4,056.00	$0.00
Roto Rooter Sewer Services	5E84939	3200	15	48,000	$468.00	$1,170.00	$0.00
SRC Pumping Co	4DE5675	4454	7	31,178	$303.99	$546.00	$0.00
Monthly Total Charges:			**261**	**760,047**	**$7,410.46**	**$20,358.00**	**$0.00**

Grand Total: $27,768.46