



# Monthly Operations and Maintenance Report

## June 2014

**PAGE INTENTIONALLY LEFT BLANK**

# Table of Contents

<b>Section</b>	<b>Page</b>
<b>ACRONYMS AND ABBREVIATIONS .....</b>	<b>1</b>
<b>EXECUTIVE SUMMARY .....</b>	<b>7</b>
<b>Summary .....</b>	<b>7</b>
Water Resources.....	7
Water Distribution, Treatment, and Production .....	7
Wastewater Treatment.....	7
Wastewater Collections.....	8
Environmental Control.....	8
Laboratory .....	8
Engineering .....	8
Stormwater .....	9
Administration.....	9
<b>WATER RESOURCES .....</b>	<b>11</b>
<b>Operational Activities.....</b>	<b>11</b>
Outreach and Education.....	12
School Programs .....	12
Water Use Surveys .....	12
Incentives and Rebates.....	12
Landscape Programs .....	13
<b>WATER TREATMENT, PRODUCTION, AND DISTRIBUTION .....</b>	<b>15</b>
<b>Operational Activities.....</b>	<b>15</b>
Department of Public Health .....	15
Water Treatment.....	15
Water Production .....	16
Water Production Summary.....	16
Production/Consumption Summary.....	16
Chemical/Utility Consumption Summary.....	16
Water Distribution.....	17
Construction.....	17
Hydrant .....	17
Customer Service.....	17
Maintenance.....	17
Distribution.....	17
System Connections.....	17
Water Quality Inquiries .....	17
Customer Services Operations.....	18
Cross Connection Control Program.....	18

**WASTEWATER TREATMENT ..... 19**

**Operational Activities.....19**  
Discharge Permit .....19  
Residuals and Chemical Management.....19  
Cake Solids .....19  
Odor Control Practices .....19  
Oxidation Pond Levels .....20  
Chemical Consumption Summary.....20  
Wastewater Operations and Maintenance Facility Activity .....20

**WASTEWATER COLLECTION SYSTEMS.....21**

**Operational Activities.....21**  
Regional Water Quality Control Board (RWQCB).....21  
Activities Summary.....22  
Collection System.....22  
Customer Service.....22  
Residuals Management.....22  
Odor Control Program .....22  
Pumping Facilities .....22

**ENVIRONMENTAL CONTROL .....25**

**Operational Activities.....25**  
Reports/Statistics.....25

**LABORATORY .....27**

**Operational Activities.....27**  
Wastewater Sampling and Analyses .....27  
Drinking Water Sampling and Analysis.....28  
Laboratory Operations.....28

**ENGINEERING .....29**

**Operational Activities.....29**  
Development Review Projects .....29  
Capital Improvement Project Milestones .....30

**STORMWATER .....33**

**Operational Activities.....33**  
Stormwater System .....34  
Pumping Facilities .....34  
Permit Compliance .....34  
Storm Drainage Assessment Districts.....34  
Stormwater Inspections.....35  
Stormwater Monitoring.....35  
Outreach and Education.....35

<b>ADMINISTRATION .....</b>	<b>36</b>
<b>Operational Activities.....</b>	<b>36</b>
Health and Safety .....	36
Human Resources.....	36
Regulatory Compliance.....	37
<b>REFERENCE .....</b>	<b>39</b>
<b>Tables and Figures.....</b>	<b>39</b>
<b>Water Resources .....</b>	<b>41</b>
Table 1.1 – Water Waste Complaints .....	41
Table 1.2 – Water Conservation Outreach .....	41
Table 1.3 – Water Conservation Surveys .....	41
Table 1.4 – Water Saving Devices .....	41
Table 1.5 – HET Direct Install Program.....	41
<b>Water Treatment, Production, and Distribution .....</b>	<b>43</b>
Table 2.1 - Summary Coliform Monitoring .....	43
Table 2.2 – Well Operational Status.....	44
Table 2.3 – Production Summary Year 2013-2014 (in Million Gallons) .....	45
Table 2.3A – DWTP Influent by Water Source Year 2013-2014 (in Million Gallons).....	46
Figure 2.A – Production Summary.....	47
Table 2.4 – City of Stockton Water Systems –Production Summaries .....	48
Table 2.5 – City of Stockton Water Systems –Consumption Summaries .....	49
Table 2.6 – Chemical Consumption Summary .....	51
Table 2.7 – Utility Consumption Summary.....	52
Table 2.8 – Hydrant Maintenance .....	54
Table 2.9 – Valve Maintenance Program .....	54
Table 2.10 – Service Connections .....	54
Table 2.11 – Number of Active Service Meters in Water System - By Size .....	54
Table 2.12 – Water Quality Inquiry Summary .....	55
Table 2.13 – Customer Services Summary.....	55
Table 2.14 – Cross Connection Control Program.....	55
Table 2.15 – Cross Connection Control Program Surveys .....	55
<b>Wastewater Treatment.....</b>	<b>57</b>
Table 3.1 – Summary of Influent and Effluent Parameters .....	57
Figure 3.A – Wastewater Plant Influent and Effluent Flow .....	58
Figure 3.B – Wastewater Plant Influent CBOD5 Load .....	59
Figure 3.C – Wastewater Plant Influent TSS Load .....	60
Table 3.2 – Residuals and Chemical Management Summary for Biosolids.....	61
Figure 3.D – Cake Solids.....	61
Table 3.3 – Summary of Tertiary Pond Operating Levels.....	62
Table 3.4 – Chemical Consumption Summary – Tertiary Facility .....	62
Table 3.5 – Utility Consumption .....	63
Table 3.6 – Maintenance Work Order Summary.....	63
<b>Wastewater Collection Systems.....</b>	<b>65</b>
Table 4.1 – Summary of SSOs and Private Sewage Spills .....	65
Figure 4.A – Public Sanitary Sewer Overflow Events .....	66
Figure 4.B – Public SSOs Greater than 1,000 gallons – Events .....	67
Figure 4.C – Public Sanitary Sewer Overflows Discharged to Receiving Water.....	68
Table 4.2 – Sewer Maintenance Activity Summary .....	69

Table 4.3 – Customer Service and CCTV Activity Summary.....	71
Table 4.4 – Spoils Activity Summary.....	72
Table 4.5 – Graffiti Removal.....	73
Table 4.6 – Maintenance Work Order Summary.....	73
<b>Environmental Control.....</b>	<b>75</b>
Table 5.1 – Operational Activity Summary.....	77
<b>Laboratory.....</b>	<b>79</b>
Table 6.1 – Acute Toxicity Testing Summary.....	79
Table 6.2 – Algae (Selenastrum capricornutum).....	79
Table 6.3 – Ceriodaphnia (C. dubia).....	79
Table 6.4 – Fathead Minnow (Pimephales Promelas).....	80
Table 6.5 – Effluent Cyanide Summary.....	80
Table 6.6 – Effluent Ammonia-N Summary.....	80
Figure 6.A – Laboratory Samples and Analyses.....	81
Figure 6.B – Contract Laboratory Samples and Analyses.....	82
Figure 6.C – Laboratory Sample Types.....	83
<b>Engineering.....</b>	<b>85</b>
Figure 7.A – Development Reviews Received and Completed.....	85
Table 7.1 – Nonpotable, Stormwater, Water, and Wastewater Projects.....	87
<b>Stormwater.....</b>	<b>89</b>
Table 8.1 – Stormwater Maintenance Activity Summary.....	91
Table 8.2 – Inspections.....	93
Table 8.3 – Outreach.....	94
Table 8.4 – Stormwater Pumping Facilities Work Order Summary.....	95
<b>Administration.....</b>	<b>97</b>
Table 9.1 – Summary of Unsafe Conditions or Acts.....	97
Table 9.2 – Summary of Work-Related Injuries and Illnesses.....	97
Table 9.3 – Summary of Safety Training.....	97
Human Resources Operational Activities.....	97
Table 9.4 – Staffing Summary.....	97
Table 9.5 – Overtime Summary.....	98
<b>APPENDIX A.....</b>	<b>I</b>
<b>Water.....</b>	<b>I</b>
Title 22 Compliance Water Well Sampling.....	I
Summary Well System Operations.....	I
<b>APPENDIX B.....</b>	<b>V</b>
<b>Environmental Compliance.....</b>	<b>V</b>
Monitored Industrial User Charges.....	V
Customer Charges Report.....	V
Septic Waste Haulers’ Charges.....	V

## Acronyms and Abbreviations

ACRONYM	DEFINITION
<b>- A -</b>	
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>- B -</b>	
BACM	Best Available Control Measure
BCP	Business Continuity Plan
BFP	Belt Filter Press
BMP	Best Management Practice
BOD	Biochemical Oxygen Demand
BOD <sub>5</sub>	Standard Biochemical Oxygen Demand – 5 day
BOO	Build-Own-Operate
BOT	Build-Own-Transfer
BPMS	Backflow Prevention Management System
BTU	British Thermal Unit
<b>- C -</b>	
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 <sub>4</sub>	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
<b>- D -</b>	
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
<b>- E -</b>	
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
<b>- F -</b>	
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
<b>- G -</b>	
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
<b>- H -</b>	
H <sub>2</sub> S	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
<b>- I -</b>	
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
<b>- J - K -</b>	
JPA	Joint (exercise of) Powers Authority



ACRONYM	DEFINITION
<b>- L -</b>	
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
<b>- M -</b>	
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
<b>- N -</b>	
NaOCl	Sodium Hypochlorite
NaOH	Sodium Hydroxide
NBT	Nitrifying Biotower
NH <sub>3</sub> -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
<b>- O -</b>	
O <sub>3</sub>	Ozone
O&M	Operations & Maintenance
OMB	Office of Management and Budget
OSHA	Occupational Safety and Health Administration
OCT	Operator Certification Training, Inc.
<b>- P -</b>	
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
<b>- Q -</b>	
QA	Quality Assurance
QC	Quality Control
<b>- R -</b>	
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
<b>- S -</b>	
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 <sub>2</sub>	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
<b>- T -</b>	
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 <sub>c</sub>	Chronic Toxicity Unit

ACRONYM	DEFINITION
<b>- U – V -</b>	
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

ACRONYM	DEFINITION
VSS	Volatile Suspended Solids
VWN	Verbal Warning Notice
<b>- W – X – Y – Z -</b>	
WaterISAC	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

**THIS PAGE INTENTIONALLY LEFT BLANK**

# 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 activities for June 2014. It includes statistical data and narrative descriptions of activities, events, and issues that the City of Stockton, Municipal Utilities Department (MUD) feel are important to record and document.

### **Water Resources**

The Water Conservation Program continued to implement water saving programs and incentives in accordance with best management practices and State mandated water use reductions. Water conservation information was provided at a Stockton Ports game event in June. Interest continued for the In-Home Water Use Surveys.

Continuing drought conditions throughout the State of California has prompted staff to begin drought contingency planning and increased water conservation messaging for this year. The combination of Stockton East Water District deliveries, Delta Water Supply and groundwater, the Stockton Metro Area water supply appears to be sufficient for this year.

### **Water Distribution, Treatment, and Production**

There were no bacteriological water quality violations for during the month. All sampling and monitoring pursuant to Title 22 regulations was completed. A copy of Title 22 results is included in Appendix A. A monthly coliform monitoring report was submitted to the Department of Public Health.

The Delta Water Treatment Plant continued to treat Woodbridge Irrigation District water during the month. Delta water diversions began on May 22.

### **Wastewater Treatment**

For the second year, MUD participated in a chemical consortium for bidding chemicals with various wastewater plants in the region to offer vendors the opportunity to sell greater quantities. In the first year of participation, a cost savings of \$465,000 was realized. Based on the bids received, additional savings are anticipated in Fiscal Year 2014-2015.

The plant discharged an average flow of 28.1 mgd. The new NPDES permit was issued by the Board on June 4<sup>th</sup> and will go into full effect in August. The requirement for cold weather discharge will be difficult to meet, but staff is reviewing options for meeting the new lower limits. The City has filed a formal challenge to the new discharge

requirements with the Board. All permit operation and discharge parameters were met with no exceedances occurring. Preventative maintenance work continued at the Main Plant and Tertiary to ensure all treatment processes are checked regularly and run properly. Large maintenance and repair projects are performed as parts and equipment require repairs or replacement.

## **Wastewater Collections**

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

Collections work included line cleaning, CCTV inspection, main line and lower lateral repair, and preventive maintenance. 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.

There were three odor complaints coming from local residencies. Staff is working to locate and identify specific pipeline segments where the odors are coming to develop a plan to reduce odors.

## **Environmental Control**

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

FOG Program staff began performing restaurant stormwater inspections in March 2014. These inspections occur in conjunction with the regular FOG annual inspections at each facility.

## **Laboratory**

The lab analyzed 946 samples for 3,380 analyses. Contract labs analyzed 278 samples for 564 analyses. There were 300 samples for NPDES Permit compliance; 332 samples for process control, and 314 samples for drinking water compliance.

The numbers listed above included work the lab did in providing support for an outside consultant. The consultant conducted a pilot plant study which resulted in the lab analyzing approximately 60 extra samples and performing an additional 120 analyses.

## **Engineering**

There were 13 development reviews received. Of those received, 12 were completed and returned. In calendar year 2013, 125 development reviews were completed and returned.

Some of the highlights in the Capital Improvement Program (CIP) include the completion of the 2012 Sanitary Sewer Rehabilitation Project that rehabilitated various existing sewer lines throughout the City of Stockton that were deteriorating or inadequately sized. The Pre-Design Report for the RWCF Headworks Rehabilitation

Project was submitted by the design consultant with comments returned to the consultant in June.

In calendar year 2013, the Engineering Division closed out CIP and maintenance projects valued at \$15.2M.

## **Stormwater**

The Stormwater Division is responsible for ensuring compliance with the City's municipal Stormwater National Pollutant Discharge Elimination System (NPDES) permit. During the month of June two dry weather water monitoring samplings occurred. Currently, those samples are at the lab and results are pending. There were two storm drain catch basin grates stolen. Since the beginning of the fiscal year 2013-2014, there have been 102 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 and cleaning of the areas surrounding the catch basins completed on as-needed basis to minimize trash and debris entering the storm system.

## **Administration**

There were no unsafe conditions, one vehicle accident, and four work-related injuries. A total of 162 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 staffing totals 186 of the approved 208 approved positions. Overtime decreased from last month.

**THIS PAGE INTENTIONALLY LEFT BLANK**



# 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 support to the Community Development Department Planning Division. Since its inception in 2004, the Division has focused primarily on the delivery of a new surface water supply through the development of the Delta Water Treatment Plant (DWTP). That multi-year effort included acquisition of water rights, facility planning and permitting, rate setting and financing, and project implementation.

Water Resources staff support the DWTP and distribution system by procuring materials and supplies in addition to negotiating various maintenance and service contracts.

CDM Smith is nearing completion of the chloramine conversion project, which includes the North Stockton Pipeline Ammonia Facility and the conversion of six groundwater wells from residual chlorine disinfection to chloramines. This is being done to ensure compliance with State and Federal Disinfection By-Product regulations. Part 2 of the final acceptance test on the DWTP is pending membrane testing.

Continuing drought conditions throughout the State of California has prompted staff to begin drought contingency planning and water conservation messaging for this year. Even with the statewide drought condition, the Stockton East Water District was informed by the Bureau of Reclamation they would be receiving 55% of their annual allocation from the New Melones Reservoir, or 41,250 acre-feet. This is close to their normal annual treated water deliveries to the Stockton Metropolitan Area. With this allocation, in addition to the Delta Water Supply and groundwater, the Stockton Metro Area water supply looks to be sufficient for this year.

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) to implement best management practices to conserve water in urban areas
- The Urban Water Management Planning Act identifying 14 Demand Management Measures to achieve water conservation savings
- The Water Conservation Act of 2009, which requires a statewide reduction in per capita water consumption by the year 2020

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 16 complaints received and staff was able to resolve each of the problems. Table 1.1 provides a summary of these activities.

Staff attended a Stockton Ports game on June 7 and distributed water conservation information.

Outreach and education is also achieved through monthly utility bill inserts, print, web-based publications, and participation at community events.

The San Joaquin County Master Gardener Program held a workshop on June 14. 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 summarizing the programs and information provided, the number of students that were reached, and feedback from teaching professionals. For the 2012/2013 school year, the SAWS Water Education Program reached a total of 24,479 students and participants; 19,748 through in-class event and after school programs, and 4,731 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 resources. There was one request in June.

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. There were no installations completed.

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](http://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. There were 226 visitors to the website.

**THIS PAGE INTENTIONALLY LEFT BLANK**

---

# 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 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 an elaborate system of wells, reservoirs (storage tanks), pipelines, valves, and meters. The system is monitored and maintained 24/7 through electronic equipment 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, 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. 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

The Delta Water Treatment Plant (DWTP) continued to treat Woodbridge Irrigation District water during the month. Delta water diversions began on May 22.

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

Contractors continued the Chloramine Project at Wells #29, 30, 31, 32, 3R, 10R and the North Stockton Pipeline Ammonia Facility. Staff continued to receive training throughout the month on the new equipment and controls used at these well sites. Crews installed mixers in two tanks at Northwest Reservoir and one tank at Weston Ranch Reservoir. Benefits of reservoir mixing include: uniform water age and distribution of disinfectants, reduction of nitrification in chloraminated systems, prevention of thermal stratification and short circuiting. 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 2012-2013 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 2012-2013 is presented for comparison. The metered consumption figures are not available until after all billing is completed in the City's HTE system and are not included in the current month column.

Stockton East Water District (SEWD) 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 2012-2013 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 2012-2013 is presented for comparison.

---

## Water Distribution

### Construction

Crews replaced eleven service lines and repaired one 8" main. Staff continued to assist other crews replacing meters and repairing minor leaks when time permitted. Outside contractors were not used during the month.

### Hydrant

Crews repaired 15 hydrants. Repairs consisted of cap, O-ring, valve gasket, chain, and coupler repair/replacement. Personnel performed one fire flow test and replaced two hydrants due to main line upgrades. 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 and weed control continued.

### Customer Service

There were 48,670 water meters read for monthly billing. There were 1,129 meters turned on or locked off for account openings or closings. Crews responded to fourteen high bill complaints. Staff continued to replace broken registers, repair damaged touch-read wires, and respond to various customer inquiries.

### Maintenance

Crews responded to various service calls consisting of small meter leaks, emergency customer water shut offs, and answering customer water-related questions. Crews replaced 103 small meters ranging from 5/8" to 2" in size. Personnel also installed 14 new meters. 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. Crews completed numerous underground service alert tickets and responded to several water conservation inquiries as customers are concerned about the drought. Staff continued weekly bacteriological sampling.

### 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 running and maintaining the Regional Wastewater Control Facility (RWCF). The division is managed by the Deputy Director of Wastewater and consists of 30 employees in Operations and 18 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

All permit operation and discharge parameters were met with no 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 28.1 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. The new NPDES permit was issued by the Regional Quality Control Board (Board) on June 4 and will go into full effect in August. Some of the testing and monitoring requirements were reduced, while our ammonia discharge limits were modified to lower seasonal limits. The requirement for cold weather discharge will be difficult, but staff is reviewing options for meeting the new, lower limits. The City has filed a formal challenge to the new discharge requirements with the Board.

### 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. The aging infrastructure at the solids handling area has made it difficult to meet production at times, but this month's production was met. The Engineering Division is working on a short-term solution until the solids project can be built. The early start of the solids capital work would be 2017.

### 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 Siemens to determine dosage rates for the 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**

A variety of chemicals are used in the treatment process. For the second year, MUD participated in a chemical consortium for bidding chemicals with various wastewater plants in the region to offer vendors the opportunity to sell greater quantities. In the first year of participation, a cost savings of \$465,000 was realized. Based on the bids received, additional savings are anticipated in the coming fiscal year.

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 amount of chlorine used to disinfect the effluent prior to discharge to the river thus protecting water quality and wildlife. 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. Large maintenance and repair projects are performed as parts and equipment require repairs or replacement. Much of the large equipment work requires confined space rescue stand-by. MUD has made arrangements to us Fire Department crews to provide confined space rescue services for these projects. Highlights of recent repair activities follow:

- Maintenance work was performed on the Belt Press #1.
- The roller drive unit was replaced on Belt Press #1.
- The Headworks Cross Conveyor Screw was installed.
- Repair and maintenance work on Grit Channel #6 was complete.

# 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<sup>1</sup> 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 five Sanitary Sewer Overflows (SSOs) occurred. There was no Category 1 or 2 spills. All five SSOs were Category 3. 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).

---

<sup>1</sup> 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.

Staff is beginning to implement a new Sewer Lateral Ordinance. The Ordinance (SMC 13.50), approved by Council in 2012, is to help reduce SSOs and hold property owners responsible for the maintenance and inspection of lateral sections owned by the property owners. Several Notice of Violations are being prepared to be sent out to property owners where problems were identified in the privately owned section of the pipe. Repairs are required to be made pursuant to Stockton Municipal Code 13.50.

### **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**

There were three odor complaints coming from local residencies. Staff is working to locate and identify specific pipeline segments where the odors are coming to develop a plan to reduce odors.

### **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:

- Air Relief Valve (ARV) replacement and repairs continue to increase system reliability and reduce the likelihood of failure, which can cause sanitary sewer overflows.
- Security systems are being installed at the sanitary stations to help prevent the theft and vandalism problem that we are having.
- The back-flow device was stolen from the Quail Lakes sanitary and was replaced with a new cage around it.
- The drivelines on pumps 3 & 5 have been rebuilt and re-installed at the Smith Canal sanitary station.

**THIS PAGE INTENTIONALLY LEFT BLANK**

# 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, two stormwater complaints, and no stormwater enforcement actions.

There was a significant increase to FOG initial inspections in comparison to last month and a slight decrease to follow-up inspections in comparison to last month.

**THIS PAGE INTENTIONALLY LEFT BLANK**



# Laboratory

## Operational Activities

---

The Laboratory Division collects and analyzes samples for NPDES permit compliance for the Wastewater Division, and analyzes and oversees contract lab analyses for T22 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 (position is currently vacant), a microbiologist, two chemists, and three laboratory technicians.

### Wastewater Sampling and Analyses

#### Effluent Weekly Acute Static-renewal Toxicity Testing with Rainbow Trout

All tests 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

Routine quarterly testing was done in April. Results of testing are shown in Tables 6.2, 6.3, and 6.4. No toxicity was found.

The next quarterly monitoring will be conducted in August 2014.

#### Effluent Monitoring – Cyanide

The waste discharge requirements (WDR) contains a requirement to monitor the treatment plant effluent monthly for cyanide, and contains monthly average (4.1 µg/L) and daily maximum (9.2 µg/L) requirements. As shown in Table 6.5, the monthly result is DNQ 2.9 ug/L which is not an exceedence of the permit. The May result was pending at the time the May MOMR was prepared. This result is DNQ 3.0 ug/L.

#### Effluent Ammonia Testing

The WDR contains a monitoring requirement to monitor the treatment plant effluent twice a week from March through August; twice per week testing was done this month. The permit contains limits of monthly average (2 mg/L) and daily maximum (5 mg/L) requirements. There were no daily maximum limit exceedances as shown on Table 6.6. The monthly average was <0.6 mg/L, the monthly maximum was 0.8 mg/L.

## **Drinking Water Sampling and Analysis**

Routine domestic water quality for finished water and raw water wells was completed. Required triennial Title 22 monitoring was conducted on all of the active drinking water wells.

## **Laboratory Operations**

The lab analyzed 946 samples for 3,380 analyses. Contract labs analyzed 278 samples for 564 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 300 samples for NPDES Permit compliance; 332 samples for process control, and 314 samples for drinking water compliance.

The numbers listed above included work the lab did in providing support for an outside consultant. The consultant conducted a pilot plant study which resulted in the lab analyzing approximately 60 extra samples and performing an additional 120 analyses.

# 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. In calendar year 2013, the Engineering Division completed CIP and maintenance projects valued at \$15.2M.

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 13 development reviews received and 12 completed and returned. In calendar year 2013, 125 development reviews were completed.

## Development Review Projects

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

- County Projects – South Stockton Sidewalks Project – Phase 2 – 1<sup>st</sup> submittal
- Improvement Plans – Harrison Elementary Safety Improvements Project – 2<sup>nd</sup> submittal
- Improvement Plans – Bus Rapid Transit Project Phase IV
- Materials Submittal – State Route 4 Crosstown Freeway Extension Project
- Stormwater Quality Control Plan – Courthouse Improvements – On-site
- Stormwater Quality Control Plan – 2845 Boeing Way – 3<sup>rd</sup> submittal
- Stormwater Quality Control Plan – 1748 West Fremont Street - California Clearance
- Stormwater Quality Control Plan – Interstate Truck Center – Revised SQCCP
- Use Permit - 2575 Country Club Blvd – Circle K Convenience Store

- Use Permit – 548 East Park Street – Single family residence
- Use Permit – 10710 Trinity Parkway Suite A – Chipotle Restaurant
- Use Permit – 528 East Weber Avenue – CalWeber 40
- Use Permit – 520 Zephyr Street – American Recycling

Figure 7.B represents the number of development reviews received and completed since the start of the 2013-2014 fiscal year.

## **Capital Improvement Project Milestones**

The Engineering Division has 57 budgeted CIPs in Fiscal Year 2013-2014. 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.

### 2012 Sanitary Sewer Rehabilitation Project (M11002)

Construction is complete. Closing-out project and issuing Notice of Completion.

### Arch Road Sanitary Sewer Trunk Line (M09106)

Knife River Construction has installed pipe segment up to Logistics Drive. Construction is ongoing.

### Capital Improvement and Energy Management Plan EIR (M12019)

Robertson-Bryan, Inc. submitted the draft Administrative Environmental Impact Report for Staff review. Staff has reviewed and commented on report.

### Pershing Sewer Crossing at the Calaveras River Project (M13005)

The Consultant is working on the 80% design drawings for the sewer main crossing at the Calaveras River. The new sewer main will be installed under the Calaveras River by using trenchless technology, and will span over 1400 feet.

### CAT Engine Replacement at Water Wells 25 and 26 –Phase I (M08001)

Mechanical Analysis/Repair, Inc. (MarTech) submitted their schedule and safety plan for the Diesel Engine Conversion to Electric Motor for Water Wells 25 & 26 project.

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

Feather River Drive will connect two ends of water pipes that are approximately 1,000 feet apart and separated by 14-Mile Slough. The project consists of the installation of over 1,000 feet of 16-inch water main that will be attached to the bridge that crosses over 14-Mile Slough. The water connection will allow for more efficient and quicker filling of the water reservoir tanks, located on the south side of 14-Mile Slough. Plans and specifications are 100% complete. Currently obtaining permits from Federal and State regulatory agencies to allow the crossing of 14-Mile Slough.

Rehabilitate Thornton Road Sanitary Pump Station (M13009)

The project will refurbish the aging sewer lift station with new, updated equipment. Consultant is researching Cal-OSHA requirements for the ladders.

RWCF Headworks Rehabilitation Project (M13007)

Consultant submitted the draft Pre-design Report, and staff is currently commenting on the draft document.

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

The project was advertised from March 21 to April 24, 2014. Project is scheduled to go to the City Council for award of a construction contract to the lowest, apparent bidder on July 15, 2014.

**THIS PAGE INTENTIONALLY LEFT BLANK**

# 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 storm water impacts
- Requiring new development projects mitigate impacts to storm water
- Requiring specified development projects to 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), treatment of storm water prior to discharge off of the developed site and/or temporarily detain storm water prior to discharge off of the developed site to protect downstream waterways from increased storm water volume 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 storm water-related practices
- Investigating and responding to illicit discharges

### Stormwater System

There were two storm drain catch basin grates stolen. Since the beginning of the fiscal year 2013-2014, there have been 102 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 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 number 2 pump at the Anderson McDougal storm station was reinstalled and is back in service.
- The number 6 pump at the West Lane North storm station has been reinstalled and is back in service.
- The number 1 & 2 pumps at the Bainbridge Storm station were pulled and sent in to be rewired from theft/vandalism.
- Alarm systems are being added to all storm stations as needed to prevent theft and vandalism. A high number of losses have occurred recently at the stations from theft and vandalism. Vandalism and theft at pump systems has reached levels that have required budgetary adjustments.

### Permit Compliance

The Stormwater Program continued to work collaboratively with the RWQCB and San Joaquin County on the development of the new permit. Staff continues to participate in meetings hosted by RWQCB on the possible future shift in program structure to a Central Valley Region-Wide Stormwater NPDES Permit. Staff participated in a meeting with all possible region-wide permit stakeholders at the RWQCB offices on June 18. Staff participated in the San Joaquin Valley Stormwater Partnership and attended a meeting in Riverbank, California on June 25 on the topic of outreach program collaboration opportunities.

### Storm Drainage Assessment Districts

Staff is working diligently to evaluate alternatives to complete necessary cleaning and discing of all basins, since the contractor of record let their performance bond lapse.



---

## Stormwater Inspections

Inspections of construction sites continue to be a priority for the City and for the Water Board. There were 26 Stormwater inspections conducted at active construction sites. Three new construction sites were added, which increased the total number of actively inspected construction sites from 23 to 26. Construction inspections resulted in fifteen Verbal Warnings, six Correction Orders, and four Notices to Clean. There were no Notices of Violations, Administrative Citations, or Referrals to Regional Water Quality Control Board during this period.

Stormwater inspection staff continues to routinely work with Environmental Compliance personnel in collaboration to achieve the goals mandated between the two overlapping programs. The relationship between the two programs continues to build and bring continuity and consistency in the goal of water quality protection. Inspections of industrial and commercial facilities were the result of three complaint calls which resulted in two verbal warnings, one Violation Warning Notice, one Notice to Clean, one Correction Order, and no Administrative Citations were issued. Subsequently, one case was referred back Environmental Compliance personnel since they were the lead enforcement division on site.

Staff concluded inspections of all local schools during the month of June in compliance with the Permit. These inspections were part two of a collaborative effort between Environmental Control and Stormwater. Environmental Control staff inspected all kitchen facilities and Stormwater staff inspected each facility for stormwater compliance.

## Stormwater Monitoring

Two dry weather water monitoring samplings occurred. Samples are at the lab and results are pending.

## Outreach and Education

Various outreach and educational programs are promoted by staff to improve stormwater (i.e. water quality) awareness in the community. Stormwater staff has been working closely with water conservation and environmental control personnel to develop and implement a cohesive public outreach and education program with a singular image.

Messages are included regularly in the Utility Bill insert and on the City website. 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.

A final note, a stormwater hotline allows residents to report illegal discharges, street flooding, request stream clean-up information, or to contact stormwater staff.

# 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: no unsafe conditions, one vehicle accident reported, and three work-related injuries.

A total of 162 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 186 of the approved 208 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

- Plant Maintenance Mechanic (active recruitment)

---

#### Positions Filled / Department Transfer

- Project Manager I
- Office Specialist
- Senior Plant Operator/Water

#### Resignations / Separations / Retirements

- Junior Engineer
- Water Systems Operator

#### 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 2012-2013 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

Industrial Railways Company performed the monthly inspection at the Tertiary Facility rail spur on June 30th, no deficiencies were identified.

Completed the Annual Verifications Questionnaires for Hazardous Materials for all three locations; DWSP, Tertiary Plant and Main Plant.

The Energy Information Administration form 860 for the Department of Energy was completed.

#### Facility Tours

There were no technical tours of the RWCF and Tertiary Plant

There were no Wetland tours.

**THIS PAGE INTENTIONALLY LEFT BLANK**

# Reference

## Tables and Figures

---

**THIS PAGE INTENTIONALLY LEFT BLANK**

## Water Resources

Table 1.1 – Water Waste Complaints

<i>Water Conservation</i>	<i>Month-to-Date</i>		<i>Year-to-Date</i>	
	<i>New</i>	<i>Open</i>	<i>Closed</i>	<i>Completed</i>
<b>Complaints</b>				
Broken Sprinklers / Irrigation Leaks/ Other Leaks	17	0	17	72
Over-irrigation / Water Run-off	18	0	18	82
Watering during Restricted Hours	5	0	5	8
Invalid/Unable to Verify	0	0	0	7
<b>Other Conservation Calls</b>	0	0	0	1
<b>Totals</b>	<b>40</b>	<b>0</b>	<b>40</b>	<b>170</b>

Table 1.2 – Water Conservation Outreach

<i>Description</i>	<i>Type</i>	<i>Date(s)</i>	<i>Impressions</i>
Utility Bill Insert	Print Media	May	48,670
Impressions/Literature Distribution	Other	June	525
Stockton Ballpark – Ports	Community Event	June 6	175

Table 1.3 – Water Conservation Surveys

<i>Survey Type</i>	<i>Requested / Pending</i>	<i>Completed</i>
In-Home Single Family	0	0
In-Home Multi-Family	0	0
REACON Business	0	0
Self-Certified Surveys	1	0
Other	0	0
<b>TOTAL</b>	<b>0</b>	<b>0</b>
<b>FY-to-Date</b>	<b>16</b>	<b>12</b>

Table 1.4 – Water Saving Devices

<i>Device Description</i>	<i>Quantity Distributed</i>	<i>FY-to-Date</i>
Low Flow Showerhead	0	44
Low Flow Faucet Aerators	0	53
Toilet Flapper	0	9
Leak Detection Tablet Packets	0	16
Positive Shut-off Hose Nozzles	0	342
Water-efficient Plant Seed Packets	0	0
<b>TOTAL</b>	<b>20</b>	<b>464</b>

Table 1.5 – HET Direct Install Program

<i>Device Description</i>	<i>Devices Installed</i>	<i>Water Savings (in Acre Feet)</i>
High Efficiency Toilet (Commercial)	0	0
<b>TOTAL</b>	<b>0</b>	<b>0</b>
<b>*FY-to-Date</b>	<b>5</b>	<b>0</b>
<b>Program-to-Date (since February 2010)</b>	<b>392</b>	<b>364.167</b>

**THIS PAGE INTENTIONALLY LEFT BLANK**



---

## Water Treatment, Production, and Distribution

---

Table 2.1 - Summary Coliform Monitoring

<i>Routine Samples</i>	<i># Required</i>	<i># Taken</i>	<i>Total Coliform Positive</i>	<i>E. Coli Positive</i>
North System	121	121	0	0
Walnut Plant	1	1	0	0
South System	24	24	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				Fire Protection Only
		Active	Stand-by	Inactive	Exceeds Sec MCL	Arsenic	Bacti	Mechanical	
<b>NORTH WELL SYSTEM</b>									
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							
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							
<b>SOUTH WELL SYSTEM</b>									
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							
<b>INTERCONNECTIONS</b>									
Cal Wtr	Airport Wy	X							
Cal Wtr	Airport/Arch Airport	X							
Cal Wtr	El Dorado	X							
Cal Wtr	Filbert/Marsh	X							
Cal Wtr	Filbert/Miner	X							
Cal Wtr	M L King/Mariposa	X							
Cal Wtr	Pardee	X							
Cal Wtr	Pershing	X							
Cal Wtr	Zephyr	X							
Lathrop	Roth/Harlan	X							
SJ Cty	Balboa/EICamino	X							
SJ Cty	Greeley Wy	X							
SJ Cty	Grigsby Pl	X							
SJ Cty	Lincoln Rd	X							
SJ Cty	Misty Ln	X							
SJ Cty	Pershing Av	X							
SJ Cty	Plymouth Rd	X							
SJ Cty	Portola Av	X							
SJ Cty	Thornton Rd	X							

Table 2.3 – Production Summary 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
	<b>Total</b>	<b>1,517.16</b>	<b>1,321.81</b>	<b>1,215.16</b>	<b>1,053.60</b>	<b>744.44</b>	<b>539.58</b>	<b>564.12</b>	<b>448.04</b>	<b>585.17</b>	<b>737.56</b>	<b>1,052.07</b>	<b>1,247.75</b>	<b>11,026.46</b>

Production Summary Comparison Year 2012-2013 (in Million Gallons)

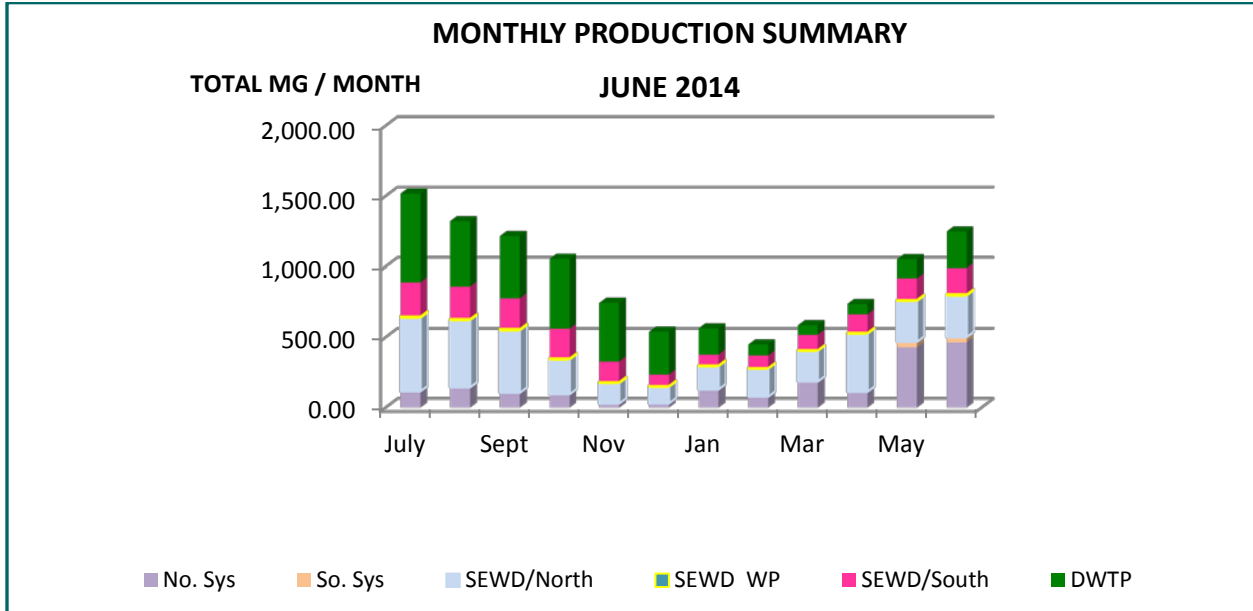
	System	July	Aug	Sept	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	June	Year to Date
	No. Sys	104.84	35.06	88.07	73.64	44.49	76.92	62.01	91.30	104.90	139.42	139.77	135.24	1,095.66
	So. Sys	12.10	1.65	0.05	0.07	1.97	6.36	3.24	25.77	19.06	0.61	1.14	0.05	72.07
	DWTP	635.20	609.53	511.26	455.85	320.15	255.84	250.59	260.56	332.72	309.56	548.72	604.98	5,094.96
	SEWD WP	9.35	8.54	6.86	6.90	4.07	5.30	4.69	4.26	5.70	17.56	7.73	8.32	89.28
	SEWD/North	594.59	620.46	522.32	323.88	127.67	70.30	83.68	89.39	216.97	314.85	371.20	415.46	3,750.77
	SEWD/South	227.41	229.70	221.41	213.64	118.18	48.40	59.80	70.28	151.06	197.35	230.90	233.02	2,001.15
	<b>Total</b>	<b>1,583.49</b>	<b>1,504.94</b>	<b>1,349.97</b>	<b>1,073.98</b>	<b>616.53</b>	<b>463.12</b>	<b>464.01</b>	<b>541.56</b>	<b>830.41</b>	<b>979.35</b>	<b>1,299.46</b>	<b>1,397.07</b>	<b>12,103.89</b>

	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 Year 2013-2014 (in Million Gallons)

	<i>JUL</i>	<i>AUG</i>	<i>SEP</i>	<i>OCT</i>	<i>NOV</i>	<i>DEC</i>	<i>JAN</i>	<i>FEB</i>	<i>MAR</i>	<i>APR</i>	<i>MAY</i>	<i>JUN</i>	<i>YTD</i>
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/WMD	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
<b>Total Influent (DWTP), MG</b>	<b>631.47</b>	<b>547.50</b>	<b>439.63</b>	<b>493.08</b>	<b>448.68</b>	<b>304.46</b>	<b>186.92</b>	<b>70.91</b>	<b>68.06</b>	<b>71.72</b>	<b>129.17</b>	<b>350.90</b>	<b>3,742.50</b>

Figure 2.A – Production Summary



Production Summary Comparison Year 2012-2013

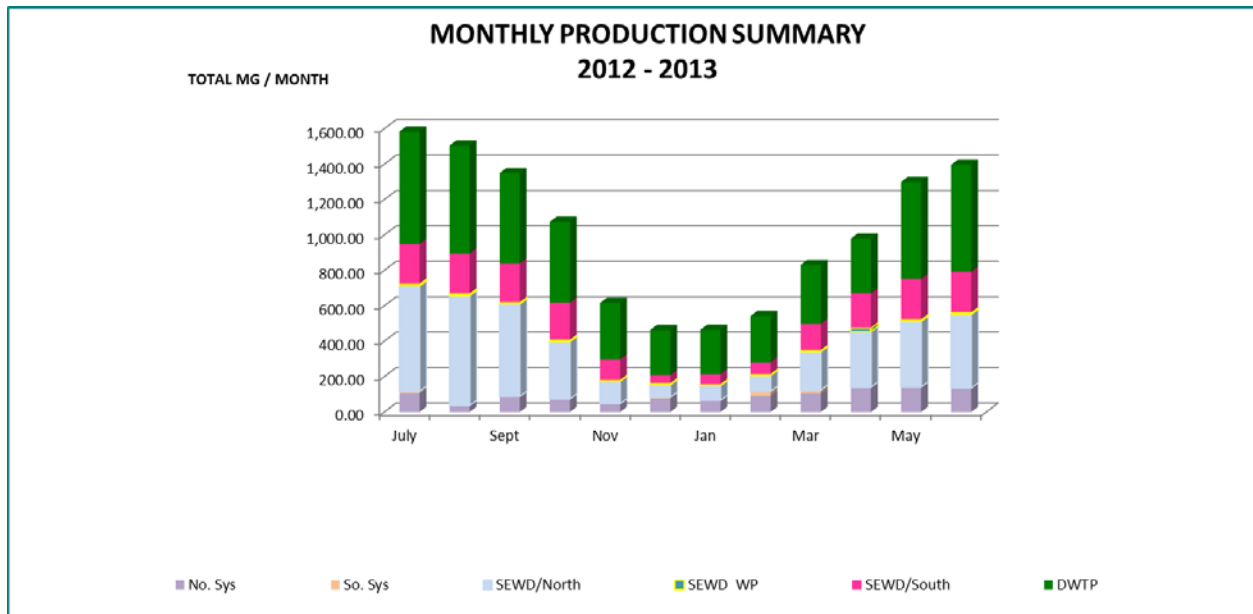


Table 2.4 – City of Stockton Water Systems –Production Summaries

	<i>JUL</i>	<i>AUG</i>	<i>SEP</i>	<i>OCT</i>	<i>NOV</i>	<i>DEC</i>	<i>JAN</i>	<i>FEB</i>	<i>MAR</i>	<i>APR</i>	<i>MAY</i>	<i>JUN</i>	<i>YTD</i>
<b>Production</b>													
<b>City System Potable Water Production</b>													
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
<b>Total City System, MG</b>	<b>1,517.16</b>	<b>1,321.81</b>	<b>1,215.16</b>	<b>1,053.60</b>	<b>744.44</b>	<b>539.58</b>	<b>564.12</b>	<b>448.04</b>	<b>585.17</b>	<b>737.56</b>	<b>1,052.07</b>	<b>1,247.80</b>	<b>11,026.51</b>
<b>System - Nonpotable Water Production</b>													
Recycle Water (Reclaimed WW) Million Gallons	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Total Production</b>	<b>1,517.16</b>	<b>1,321.81</b>	<b>1,215.16</b>	<b>1,053.60</b>	<b>744.44</b>	<b>539.58</b>	<b>564.12</b>	<b>448.04</b>	<b>585.17</b>	<b>737.56</b>	<b>1,052.07</b>	<b>1,247.80</b>	<b>11,026.51</b>

2012-2013 –Production Summaries

	<i>JUL</i>	<i>AUG</i>	<i>SEP</i>	<i>OCT</i>	<i>NOV</i>	<i>DEC</i>	<i>JAN</i>	<i>FEB</i>	<i>MAR</i>	<i>APR</i>	<i>MAY</i>	<i>JUN</i>	<i>YTD</i>
<b>Production</b>													
<b>City System Potable Water Production</b>													
City North System Wells	104.84	35.06	88.07	73.64	44.49	76.92	62.01	91.27	104.90	139.42	139.77	135.24	1,095.63
City South System Wells	12.10	1.65	0.05	0.07	1.97	6.36	3.24	25.77	19.06	.61	1.14	0.05	72.07
Delta Water Treatment Plant	635.20	609.53	511.26	455.85	320.15	255.84	250.59	260.56	332.72	309.56	548.72	604.98	5,094.96
MLK Diamond & Filbert Interconnect (SEWD) City Walnut System	9.35	8.54	6.86	6.90	4.07	5.30	4.69	4.26	5.70	17.56	7.73	8.32	89.28
Stockton East Water District (SEWD) City / County North System	594.59	620.46	522.32	323.88	127.67	70.30	83.68	89.39	216.97	314.85	371.20	415.46	3,750.77
Stockton East Water District (SEWD) City South System	227.41	229.70	221.41	213.64	118.18	48.40	59.80	70.28	151.08	197.35	230.90	233.02	2,001.17
<b>Total City System, MG</b>	<b>1,583.49</b>	<b>1,504.94</b>	<b>1,349.97</b>	<b>1,073.98</b>	<b>616.53</b>	<b>463.12</b>	<b>464.01</b>	<b>541.53</b>	<b>830.43</b>	<b>979.35</b>	<b>1,299.46</b>	<b>1,397.07</b>	<b>12,103.88</b>
<b>System – Nonpotable Water Production</b>													
Recycle Water (Reclaimed WW) Million Gallons	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Total Production</b>	<b>1,583.49</b>	<b>1,504.94</b>	<b>1,349.97</b>	<b>1,073.98</b>	<b>616.53</b>	<b>463.12</b>	<b>464.01</b>	<b>541.53</b>	<b>830.43</b>	<b>979.35</b>	<b>1,299.46</b>	<b>1,397.07</b>	<b>12,103.88</b>

Table 2.5 – City of Stockton Water Systems –Consumption Summaries

	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	YTD
<b>City System - Metered Consumption</b>													
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
<b>Subtotal Metered Consumption, MG</b>	<b>1,292.30</b>	<b>1,181.27</b>	<b>1,216.16</b>	<b>988.18</b>	<b>842.35</b>	<b>595.26</b>	<b>493.44</b>	<b>487.01</b>	<b>514.81</b>	<b>522.88</b>	<b>741.27</b>	<b>996.09</b>	<b>9,871.02</b>
<b>City System - Unmetered Consumption</b>													
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
<b>Subtotal Unmetered Consumption, MG</b>	<b>0.54</b>	<b>0.45</b>	<b>0.55</b>	<b>0.74</b>	<b>0.43</b>	<b>0.18</b>	<b>0.50</b>	<b>0.29</b>	<b>0.24</b>	<b>0.38</b>	<b>0.52</b>	<b>0.57</b>	<b>5.39</b>
<b>Total City System Consumption, MG</b>	<b>1,292.84</b>	<b>1,181.72</b>	<b>1,216.71</b>	<b>988.92</b>	<b>842.78</b>	<b>595.44</b>	<b>493.94</b>	<b>487.30</b>	<b>515.05</b>	<b>523.26</b>	<b>741.79</b>	<b>996.66</b>	<b>9876.41</b>
<b>Water Wheeled and Wholesaled (SJ County Interconnects)</b>													
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
<b>Total Wheeled and Wholesaled</b>	<b>90.17</b>	<b>89.50</b>	<b>69.85</b>	<b>61.39</b>	<b>44.07</b>	<b>30.43</b>	<b>34.59</b>	<b>25.11</b>	<b>32.72</b>	<b>40.49</b>	<b>64.78</b>	<b>145.31</b>	<b>728.41</b>

## 2012-2013 –Consumption Summaries

	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	YTD
<b>City System - Metered Consumption</b>													Through previous month
Single-Family Residential	787.34	776.55	752.21	660.81	503.61	304.10	294.56	265.91	338.81	423.95	551.61	725.57	6,385.03
Multi-Family Residential	104.37	104.77	105.01	91.93	85.45	60.47	63.50	58.85	63.08	68.36	80.06	97.81	983.66
Commercial / Institutional	194.15	166.46	186.33	170.94	116.79	72.77	67.73	69.05	87.42	112.37	142.06	181.56	1,567.63
Irrigation	185.93	189.82	180.22	223.05	79.11	33.27	17.07	13.20	35.79	70.75	111.49	173.43	1,313.13
Non-Potable Water	0	0	0	0	0	0	0	0	0	0	0	0	0
Construction/Hydrant/Jumpers/Load Counts	1.60	1.32	1.60	1.27	0.21	.04	.14	0.14	.39	.25	.34	.28	7.58
Other (Industrial)	18.29	19.73	16.89	16.16	18.90	12.46	11.70	11.20	16.45	18.59	17.90	22.48	200.75
<b>Subtotal Metered Consumption, MG</b>	<b>1,291.68</b>	<b>1,258.65</b>	<b>1,242.26</b>	<b>1,164.16</b>	<b>804.07</b>	<b>483.11</b>	<b>454.70</b>	<b>418.35</b>	<b>541.94</b>	<b>694.27</b>	<b>903.46</b>	<b>1,201.13</b>	<b>10,457.78</b>
<b>City System - Unmetered Consumption</b>													
Main Line / Service Repair Losses	0.21	0.22	0.16	0.20	0.38	0.12	0.15	0.06	0.07	0.03	0.04	0.08	1.72
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	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.08	0.31	0.30	0.46	1.23
Hydrant / Blow Off Flushing	0.01	0.01	0.01	0.02	0.01	0.11	0.01	0.03	0.01	0.01	0.01	0.30	0.54
System Flushing	0	0	0	0	0	0	0	9.20	3.20	0.75	0.01	0.01	13.17
City Fire Dept. Fire Flow	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 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
<b>Subtotal Unmetered Consumption, MG</b>	<b>0.26</b>	<b>0.27</b>	<b>0.21</b>	<b>0.26</b>	<b>0.43</b>	<b>0.27</b>	<b>0.20</b>	<b>9.33</b>	<b>3.39</b>	<b>1.13</b>	<b>0.15</b>	<b>0.88</b>	<b>17.02</b>
<b>Total City System Consumption, Mg</b>	<b>1,291.94</b>	<b>1,258.92</b>	<b>1,242.47</b>	<b>1,164.42</b>	<b>804.50</b>	<b>483.38</b>	<b>454.90</b>	<b>427.68</b>	<b>545.33</b>	<b>695.40</b>	<b>903.61</b>	<b>N/A</b>	<b>10,474.80</b>
<b>Water Wheeled and Wholesaled (SJ County Interconnects)</b>													
Metered to San Joaquin County	97.94	88.48	82.53	58.49	33.65	26.49	27.17	27.88	41.77	54.24	55.33	103.75	697.72
<b>Total Wheeled and Wholesaled</b>	<b>97.94</b>	<b>88.48</b>	<b>82.53</b>	<b>58.49</b>	<b>33.65</b>	<b>26.49</b>	<b>27.17</b>	<b>27.88</b>	<b>41.77</b>	<b>54.24</b>	<b>55.33</b>	<b>103.75</b>	<b>697.72</b>



Table 2.6 – Chemical Consumption Summary

	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	YTD
<b>Water Production System Chemical Consumption</b>													
<b>North Wells</b>													
Chlorine Gas, Lbs.	1,170	1,311	965	696	342	335	584	390	1,058	722	1,840	1,823	11,236
<b>South Wells</b>													
Chlorine Gas, Lbs.	225	186	140	83	53	57	57	55	51	59	268	245	1,479
<b>Delta Water Treatment Plant</b>													
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

2012-2013 – Chemical Consumption Summary

<i>Water Production System Chemical Consumption</i>	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	YTD
<b>North Wells</b>													
Chlorine Gas, Lbs.	776	549	597	513	340	976	904	727	577	956	1,133	1,180	9,228
<b>South Wells</b>													
Chlorine Gas, Lbs.	199	213	161	147	99	232	271	366	260	45	120	116	2,229
<b>Delta Water Treatment Plant</b>													
Liquid Oxygen, Gal.	10,393	9,342	6,476	6,858	6,790	14,558	36,720	11,009	9,652	4,555	6,998	8,633	131,984
Sodium Hypochlorite, Gal.	21,814	29,519	15,987	15,172	16,637	12,132	10,472	8,771	9,672	7,487	10,830	15,771	174,264
Sodium Hydroxide (Caustic Soda), Gal.	9,533	17,078	10,445	10,309	13,370	24,619	22,233	18,653	9,152	2,958	10,687	20,093	169,130
Aluminum Chlorohydrate (ACH), Gal.	7,163	5,804	2,876	2,335	1,768	6,853	9,983	7,239	3,951	2,834	2,521	3,765	57,092
Corrosion Inhibitor, Gal.	956	950	705	649	327	222	307	388	482	423	833	890	7,132
Citric Acid, Gal.	80	59	99	62	121	71	62	67	81	77	87	86	952
Sulfuric Acid, Gal.	145	37	102	82	80	66	58	55	75	66	107	106	979
Sodium Bisulfite, Gal.	60	15	18	88	58	26	15	44	42	17	30	38	451

Table 2.7 – Utility Consumption Summary

	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	YTD
<b>Water Production System Utility Consumption</b>													
<b>North Production System</b>													
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
<b>South Production System</b>													
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. C12 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
<b>Delta Water Treatment Project</b>													
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
<b>Water Production System Utility Outages</b>													
<b>North Wells</b>													
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
<b>South Wells</b>													
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

## 2012-2013 – Utility Consumption Summary

<i>Water Production System Utility Consumption</i>	<i>JUL</i>	<i>AUG</i>	<i>SEPT</i>	<i>OCT</i>	<i>NOV</i>	<i>DEC</i>	<i>JAN</i>	<i>FEB</i>	<i>MAR</i>	<i>APR</i>	<i>MAY</i>	<i>JUN</i>	<i>YTD</i>
<b>North Wells</b>													
Electricity, KWH	343,748	139,334	268,956	175,035	117,368	165,992	179,012	191,099	208,442	252,374	288,662	275,223	2,605,245
Natural Gas, 1,000 ft <sup>3</sup>	8	18	3	1	0	0	1	4	53	2.4	2.4	104	196.8
<b>South Wells</b>													
Electricity, KWH	32,952	26,230	20,960	19,756	14,649	26,005	30,383	54,196	40,882	13,941	19,257	193	299,344
Natural Gas, 1,000 ft <sup>3</sup>	1	25	0	0	3	0	0	4	46	0	1	0	80
<b>Delta Water Treatment Project*</b>													
Electricity Used, KWH (Intake)	109,440	99,200	12,320	76,000	71,040	76,000	80,640	56,960	320	1,600	4,000	53,280	640,800
Electricity Used, KWH (Treatment Plant)	724,000	744,000	714,000	526,000	398,000	326,000	302,000	380,000	390,000	434,000	890,000	1,036,000	6,864,000
Electricity Generated, KWH (Solar)	(11,980)	(15,695)	(13,204)	(9,620)	(8,362)	(5,604)	(8,770)	(11,451)	(15,431)	(20,136)	(21,767)	(21,000)	(163,020)
<b>DWTP Total Electricity Used, KWH</b>	<b>821,460</b>	<b>827,505</b>	<b>713,116</b>	<b>592,380</b>	<b>460,678</b>	<b>396,396</b>	<b>373,870</b>	<b>425,509</b>	<b>374,889</b>	<b>415,464</b>	<b>872,233</b>	<b>1,068,280</b>	<b>7,341,780</b>
<b><i>Water Production System Utility Outages</i></b>													
<b>North Wells</b>													
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
<b>South Wells</b>													
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
<b>Description of Outages</b>	None	None	None	None	None	None	None	None	None	None	None	None	None

Table 2.8 – Hydrant Maintenance

	<i>Current Month</i>	<i>Fiscal YTD</i>
Hydrant Repairs		
Leaks	6	93
Vehicle Accidents	5	41
Routine Maintenance Repair	5	65
Painted Hydrant	0	27
Installed New/Replaced Hydrant	2	14
Assist Fire Department	2	8
Emergency Fire Response	0	6
Fire Flow Test	1	18
Removed Hydrant/Spool	0	5
Relocated Hydrant	0	2
Gate Valve Maintenance	1	15

Table 2.9 – Valve Maintenance Program

	<i>Current Month</i>	<i>Fiscal YTD</i>	<i># of Valves in System</i>
Air Relief Valves Inspected	25	111	198
Distribution Valves Located	1	42	10,490
Distribution Valves Exercised	41	334	10,490
Distribution Valves Installed (New)	0	2	10,490
Blow-off Valves Flushed	0	248	1,282
Valves Repaired (all types)	1	25	11,968

Table 2.10 – Service Connections

<i>Meters Applied to Routes- Current Month</i>	1
Meters Applied to Routes - Fiscal Year-to-Date	109
Total Number of Service Meters in Water System (Active + Inactive)	48,666

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

<i>Meter Size</i>	<i>Residential</i>	<i>Industrial</i>	<i>Commercial / Institutional</i>	<i>Irrigation</i>
5/8 - inch	1,800	0	14	15
3/4 - inch	25,160	14	217	76
1 - inch	18,243	0	242	142
1 1/2 - inch	259	0	230	164
2 - inch	256	1	602	435
3 - inch	12	0	70	25
4 - inch	7	3	44	20
6 - inch	5	1	18	2
8 - inch	0	0	5	0
10 - inch	0	0	2	0
12 - inch	0	0	2	0
<b>Totals</b>	<b>45,742</b>	<b>19</b>	<b>1,446</b>	<b>879</b>

Table 2.12 – Water Quality Inquiry Summary

<i>Inquiry</i>	<i>Quantity</i>	<i>Follow-up Action</i>
Taste / Odor	6	-5- Complaints of algae/earthy odor in water. Operator confirmed normal chlorine residual and explained to customers the different water sources and treatment practices. Customers had chloramination questions that were answered. -1- Complaint of odor at bathroom faucet. Customer to clean traps.
Color	0	
Turbidity	0	
Suspended Solids	0	
Pressure	4	-2- Complaints of low pressure in house. Operator spoke with customer. Customer to clean aerators. -1- Complaint of low pressure. Operator found a faulty meter causing volume problems. Volume and pressure normal after meter replacement. -1- Complaint of low pressure. Angle stop at meter found partially closed. Flow/pressure normal after valve fully opened.
Sediment	0	
Air	0	
Sand	0	
Miscellaneous	0	
Inquiry	0	

Table 2.13 – Customer Services Summary

<i>Customer Service Operations</i>	<i>Current Month</i>
Residential Meter Routes	90
Commercial Meter Routes	13
Estimated Meter Reads by Utility Billing	0
Total Meters Read	48,666
Number of Check Reads (All Routes)	286
Number of Service Turn-on/Turn-offs	987

Table 2.14 – Cross Connection Control Program

	<i>Beginning of Year</i>	<i>This Month</i>	<i>Year to Date</i>
Total Devices in COS System	2,625		2,676
Due for Testing to Date			1,919
Tested to Date			1,852
Outstanding			67
Installed/Added		6	58
Reactivated		4	7
Inactivated from Cos System		2	14

Table 2.15 – Cross Connection Control Program Surveys

	<i>Surveyed</i>	<i>Surveyed Fiscal Year-to-Date</i>
Customer Connections Surveyed	11	78

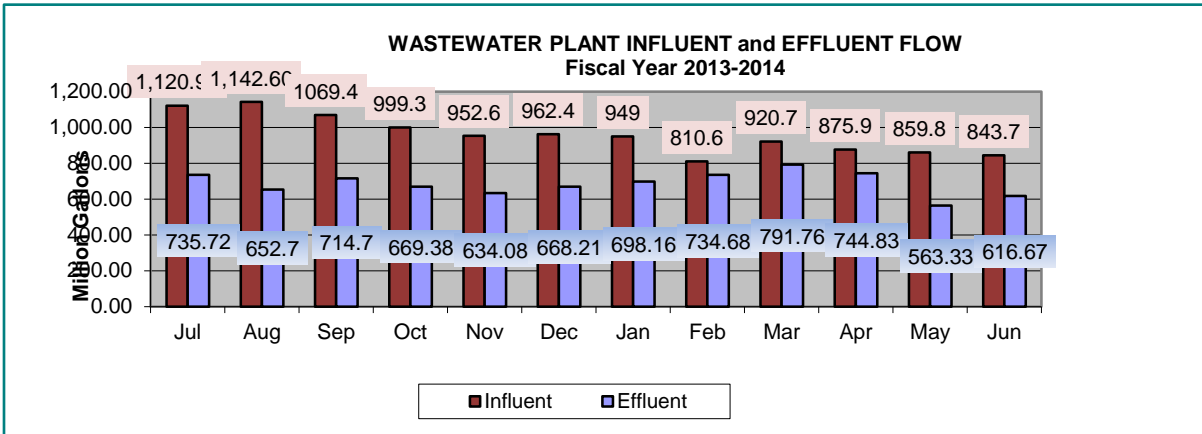
**THIS PAGE INTENTIONALLY LEFT BLANK**

## Wastewater Treatment

Table 3.1 – Summary of Influent and Effluent Parameters

<i>Influent Parameters</i>	<i>Actual Month Average</i>	
Flow, MGD	28.1	
cBOD, mg/L	290	
TSS, mg/L	340	
Effluent Parameters	Actual Month Average	NPDES Permit Limit Monthly Average
Flow, MGD	20.6	55 Average Dry Weather Flow
cBOD, mg/L	<2.2	10
cBOD Removal, %	>99.5	85
TSS, mg/L	<2.7	10
TSS Removal, %	> 99.4	85
Ammonia, mg/L	<06	2 Daily maximum is 5
Turbidity (NTU)	1.6 0.6 – 3.7	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)	6.6- 8.1	6.5 – 8.5
DO, mg/L (Min. Daily Average)	8.8	5.0 December 01 thru August 31
Ponds, Free Board, feet (Daily Average)	2.06-2.76	>= 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 2012-2013

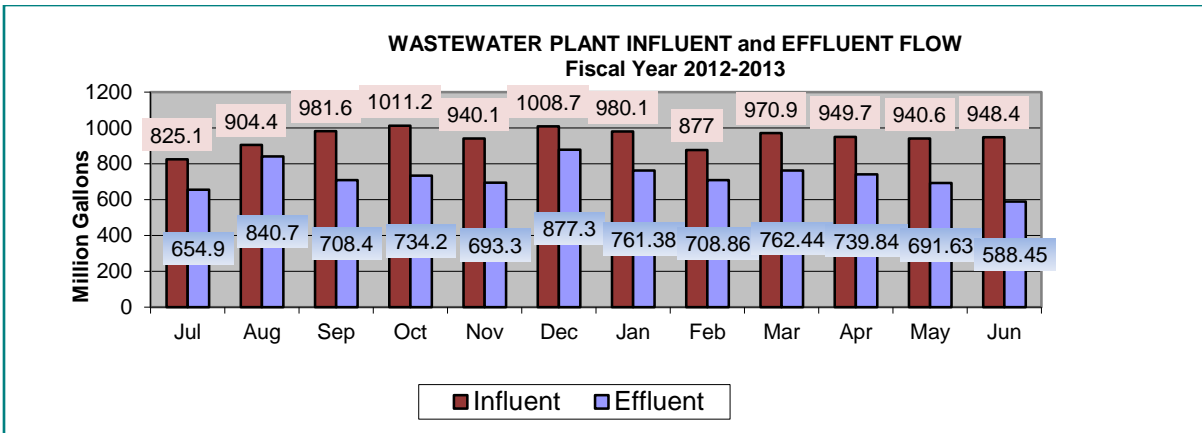
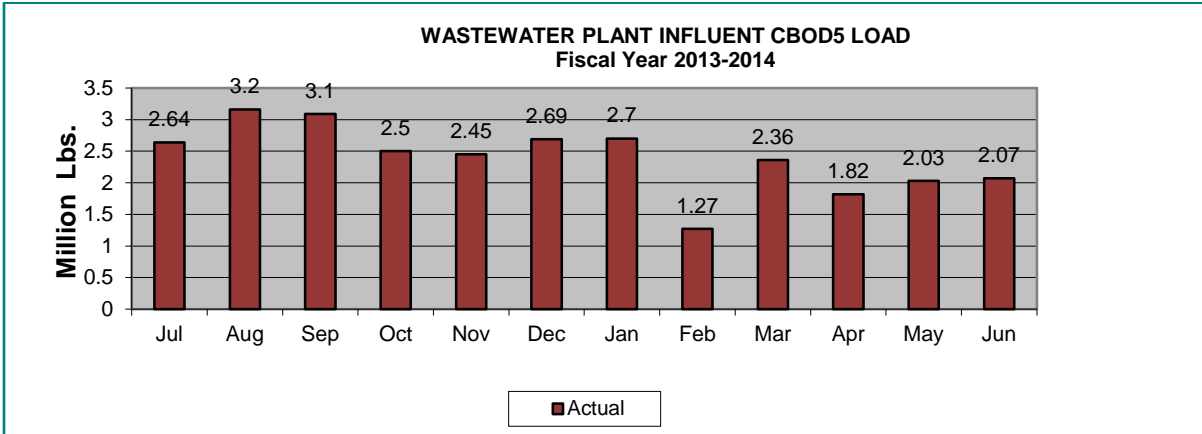




Figure 3.B – Wastewater Plant Influent CBOD5 Load



Wastewater Plant Influent CBOD5 Load Comparison Year 2012-2013

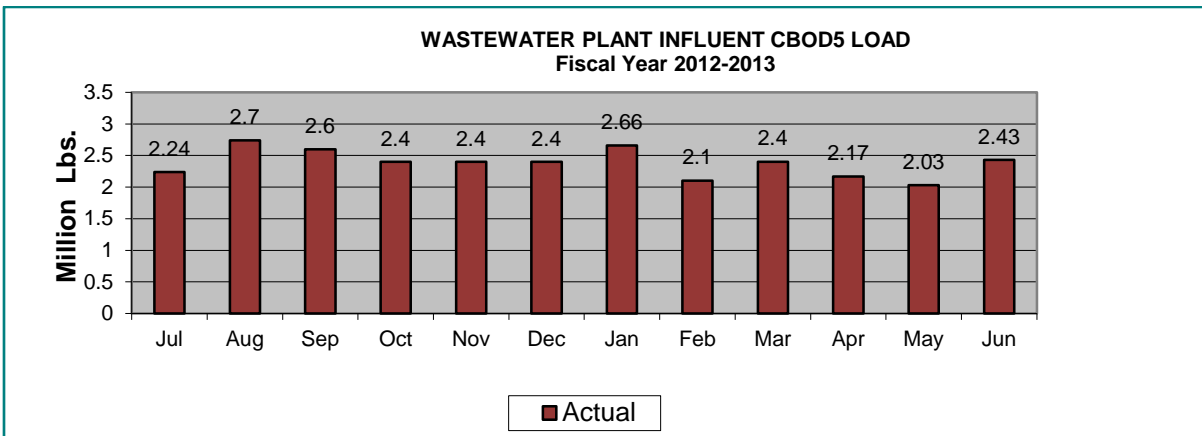
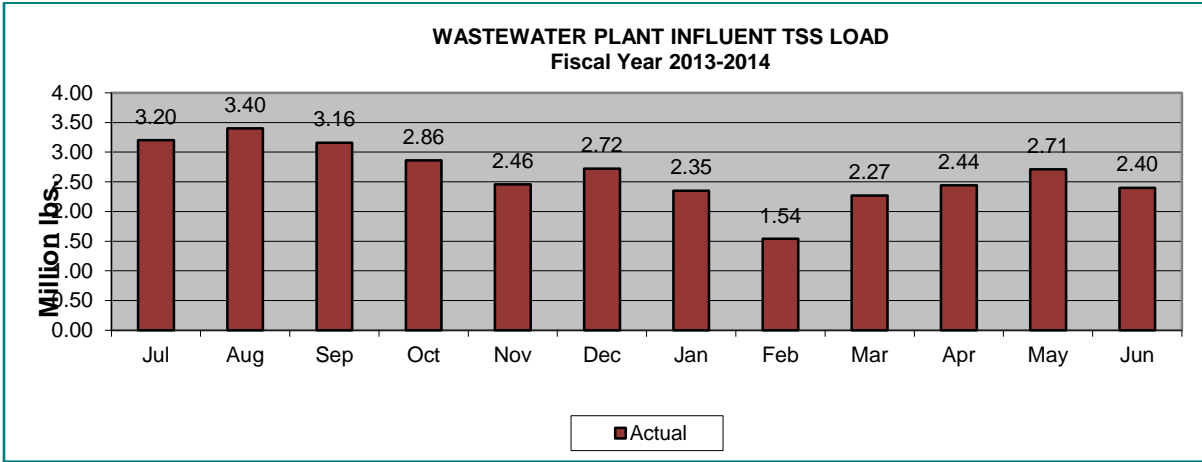


Figure 3.C – Wastewater Plant Influent TSS Load



Wastewater Plant Influent TSS Load Comparison Year 2012-2013

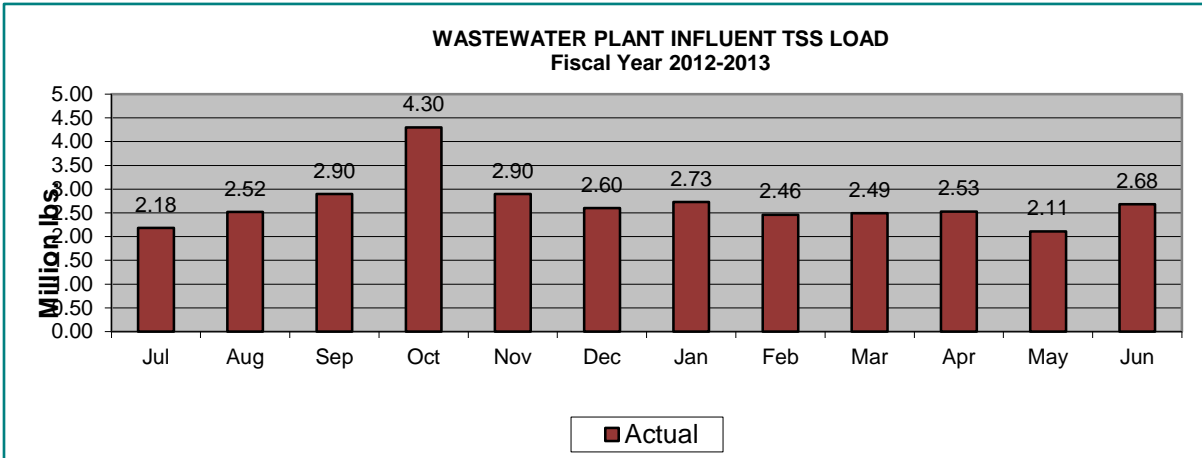
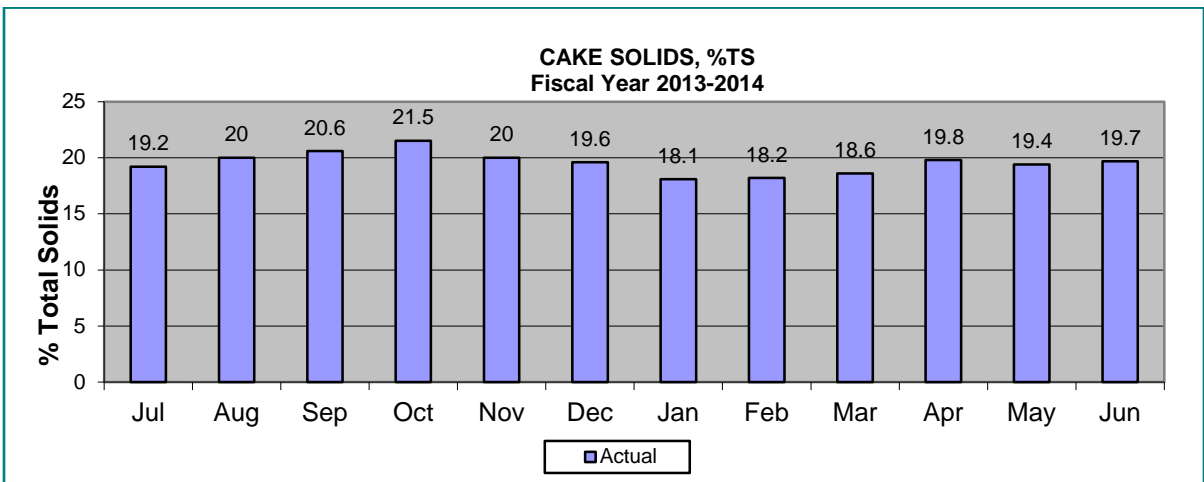


Table 3.2 – Residuals and Chemical Management Summary for Biosolids

Digester Biosolids	Current Month	Fiscal Year-to-Date
Total Feed, gals.	4,083,900	58,996,443
Total Gas Production, CuFt.	15,196,900	192,658,100
Sludge Lagoon, gals.	0	0
Ferric Chloride, gal.	5,810	42,351
Ferric Chloride (EPT), lbs.	13,809	177,955
Dewatered Biosolids		
Total Feed, gals.	3,679,887	49,571,897
Polymer, lbs.	99,126	1,226,569
Cake, Wet Tons	1,613	20,383
Biosolids Truck Loads Hauled	66	834

Figure 3.D – Cake Solids



Cake Solids Comparison Year 2012-2013

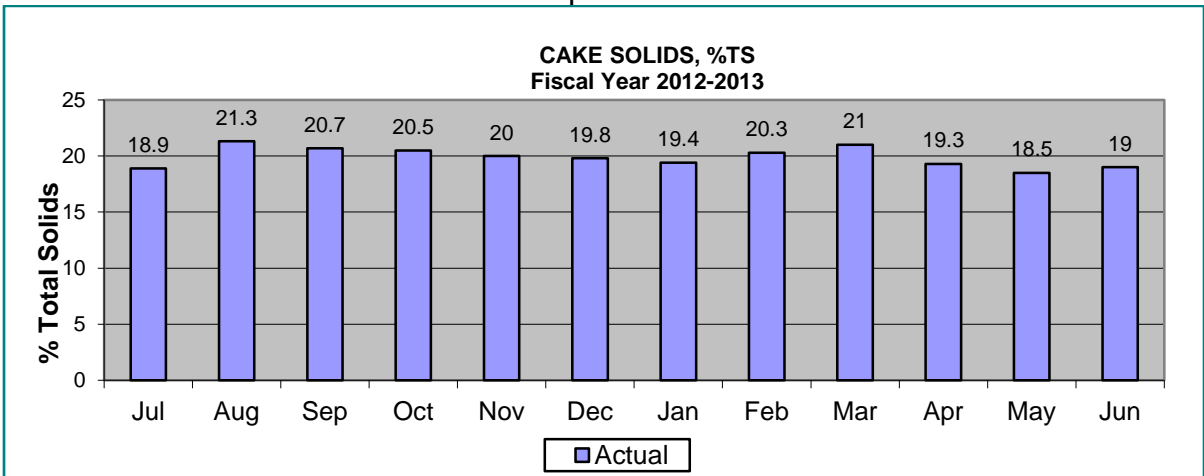


Table 3.3 – Summary of Tertiary Pond Operating Levels

Tertiary Pond	Start Freeboard	End Freeboard	Reserve Capacity (Million Gallons)
Pond #1 (190 ac.)	2.02	2.19	135.59
Pond #2 (135 ac.)	2.75	2.93	119.34
Pond #3 (125 ac.)	2.49	2.6	114.37
		<b>Total</b>	<b>369.30</b>
		<b>Total Reserve Days</b>	<b>31.65</b>

Table 3.4 – Chemical Consumption Summary – Tertiary Facility

Chemical Used	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	Fiscal YTD
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
Aluminum Sulfate, gals.	0	0	0	0	0	0	0	0	0	0	0	0	0
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

Comparison Year 2012-2013 - Chemical Consumption Summary – Tertiary Facility

Chemical Used	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	Fiscal YTD
Chlorine Gas, lbs.	36,231	45,225	36,072	36,288	33,066	34,680	37,046	32,728	39,054	37,744	39,351	37,295	444,780
Sulfur Dioxide, lbs.	31,400	37,400	29,800	30,544	29,936	30,962	25,891	31,515	36,828	34,100	33,200	28,700	380,276
Aluminum Sulfate, gals.	0	0	0	0	0	0	0	0	0	0	0	0	0
Caustic Soda, lbs.	147	0	0	1,524	6,657	5,531	2,605	9,090	7,540	3,412	12,998	6,751	56,255
Aqueous Ammonia, gals.	6,999	13,602	6,920	9,420	5,873	4,787	565	344	6,483	9,283	10,170	9,627	84,073
Polymer, lbs	308,879	406,236	329,733	299,228	296,580	342,592	518,562	501,526	486,627	451,098	353,923	134,201	4,429,185

Table 3.5 – Utility Consumption

	<i>Current Month</i>	<i>Fiscal YTD</i>
<b>Electricity</b>		
Main Facility Total Usage, KW	1,669,108	20,144,769
Tertiary Facility Total Usage, KW	581,235	6,371,491
<b>Total Facility Usage, KW</b>	<b>2,250,343</b>	<b>26,516,260</b>
PG&E, Purchased, KW	1,117,252	15,554,229
Co-Generation Production, KW	1,133,091	10,962,031
<b>Total Facility Prod/Purch, KW</b>	<b>2,250,343</b>	<b>26,516,260</b>
<b>Natural Gas</b>		
Co-Generation Fuel, Therms	140,070	1,333,510
Building HVAC Fuel, Therms	1.49	93
Methane Gas, Digester Production, CuFt	15,196,900	192,658,100
Methane Gas, Digester Production, Therms	82,446	1,135,969
<b>Water</b>		
Wastewater Facilities, Total Usage, Gallons	1,195,900	14,756,694

Table 3.6 – Maintenance Work Order Summary

<i>Maintenance Work Orders</i>	<i>Corrective Maintenance</i>	<i>Corrective Maintenance % Completed</i>	<i>Corrective Maintenance % Backlog</i>	<i>Preventive Maintenance % Backlog</i>
<b>Main Treatment Facility</b>				
Main Plant Mechanical	53	67.9	32.1	31.1
Main Plant Electrical	30	86.7	13.3	64.3
Main Plant Engines	N/A	N/A	N/A	N/A
<b>Tertiary Treatment Facility</b>				
Tertiary Plant Mechanical	15	53.3	46.7	28.2
Tertiary Plant Electrical	9	88.9	11.1	45.5

**THIS PAGE INTENTIONALLY LEFT BLANK**

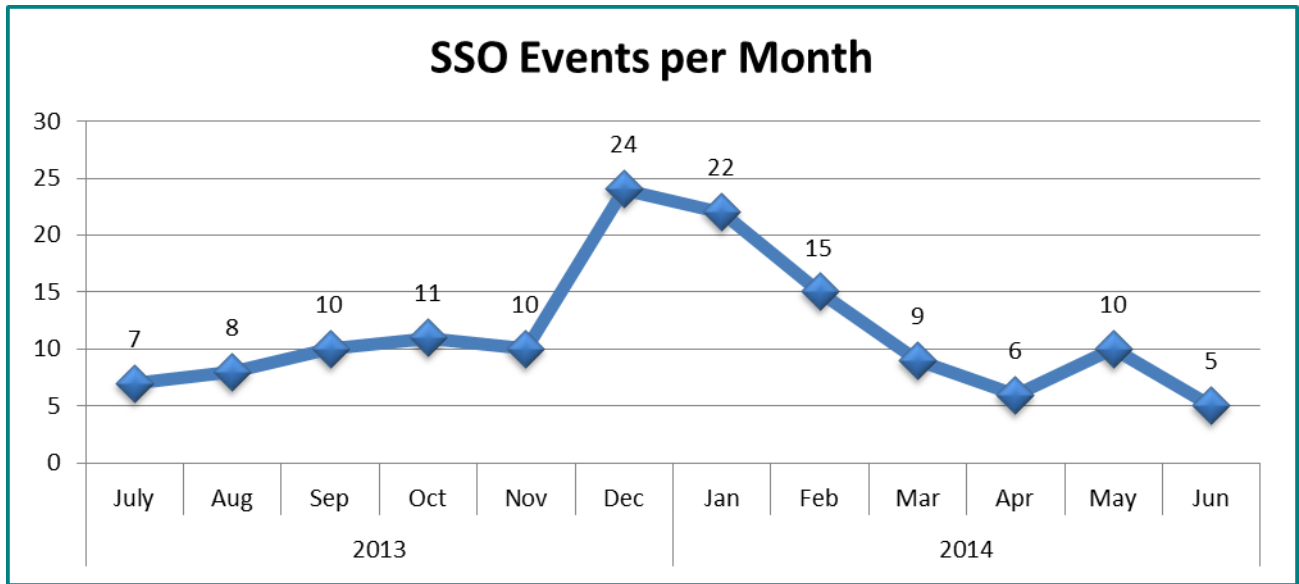
## Wastewater Collection Systems

Table 4.1 – Summary of SSOs and Private Sewage Spills

<i>Date</i>	<i>Address</i>	<i>Spill Gallons</i>	<i>Gallons Recovered</i>	<i>Gal to Surf Water</i>	<i>Cause</i>	<i>Receiving Water or Containment</i>	<i>Line Type</i>	<i>Pipe Size</i>
<b>CATEGORY 1</b>								
			NONE					
<b>CATEGORY 2</b>								
			NONE					
<b>CATEGORY 3</b>								
6/8/2014	N. Yosemite St.	1	1	0	Roots	Gutter	Main	6"
6/17/2014	E. Anderson St.	2	2	0	Debris	Gutter	Lateral	4"
6/20/2014	W. Rose St.	9	9	0	Roots	Gutter	Lateral	4"
6/23/2014	N. Airport Way	3	3	0	Debris	Gutter	Lateral	4"
6/23/2014	Sanchez Ct.	4	4	0	Debris	Gutter	Lateral	4"
<b>PRIVATE</b>								
6/16/2014	N. American St.	2	2	0	Roots	Gutter	Lateral	4"
6/26/2014	Burlington Pl.	1	1	0	Debris	Gutter	Lateral	4"

Total Public SSO Events	5	Total Gallons	19
Total Private Spills	2	Total Gallons	3
Total Public & Private Spill Events	7	Total Gallons	22

Figure 4.A – Public Sanitary Sewer Overflow Events



Public Sanitary Sewer Overflow Events - Comparison Year 2012-2013

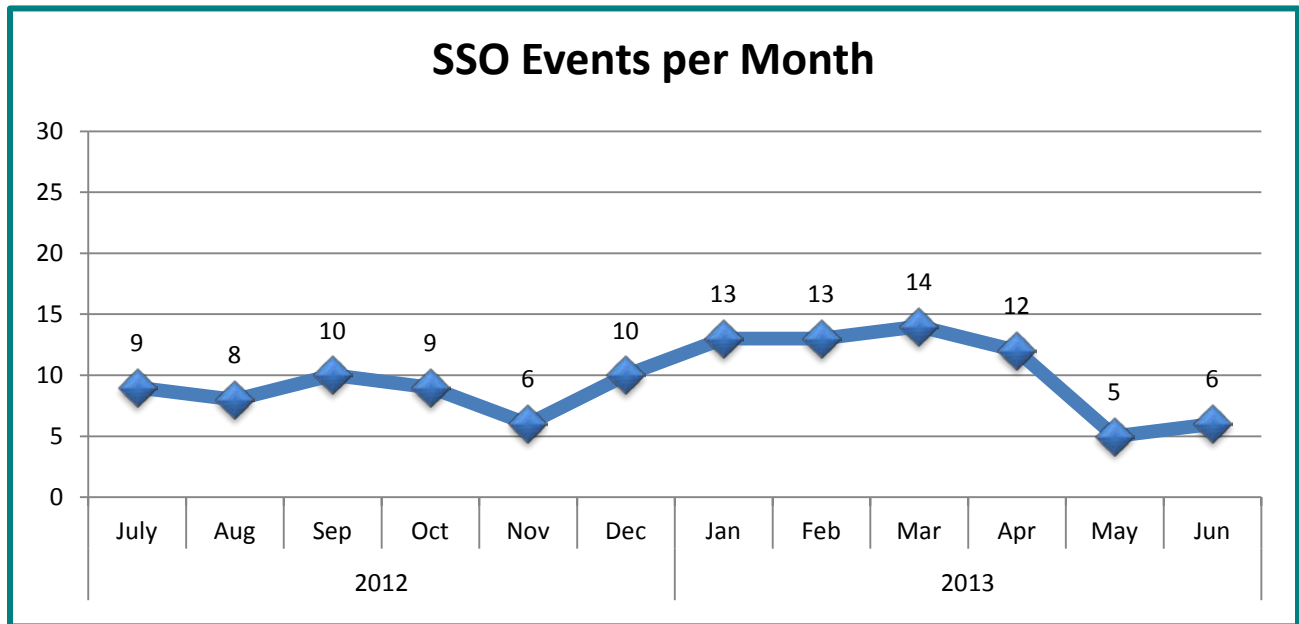
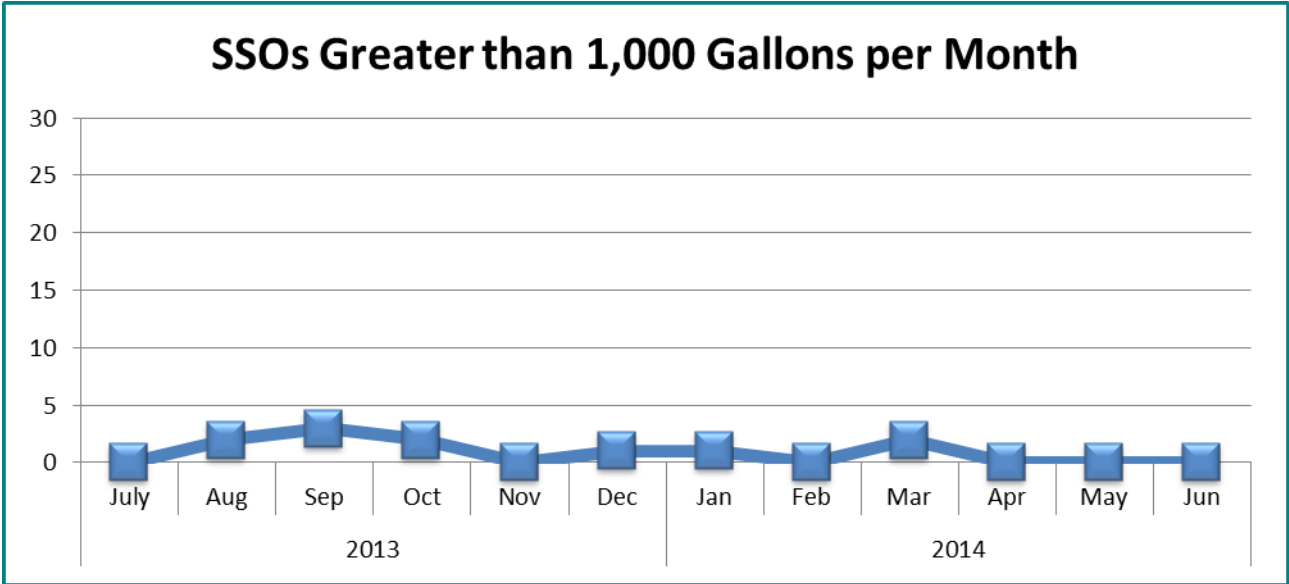




Figure 4.B – Public SSOs Greater than 1,000 gallons – Events



Public SSOs Greater than 1,000 gallons Events – Comparison Year 2012-2013

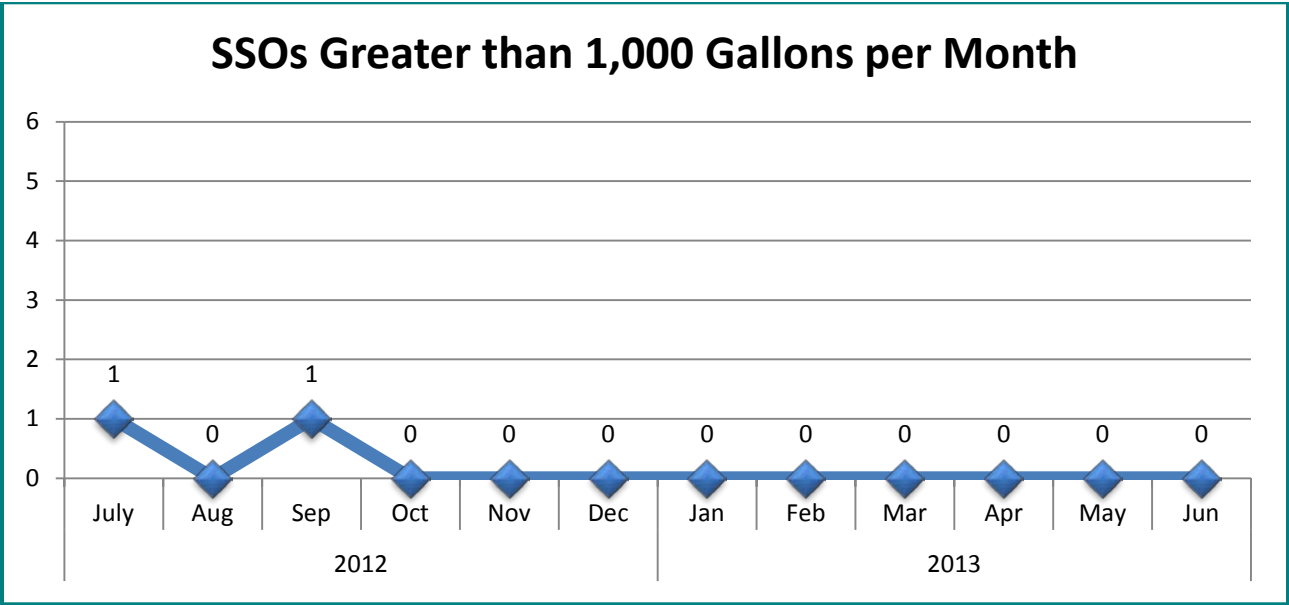
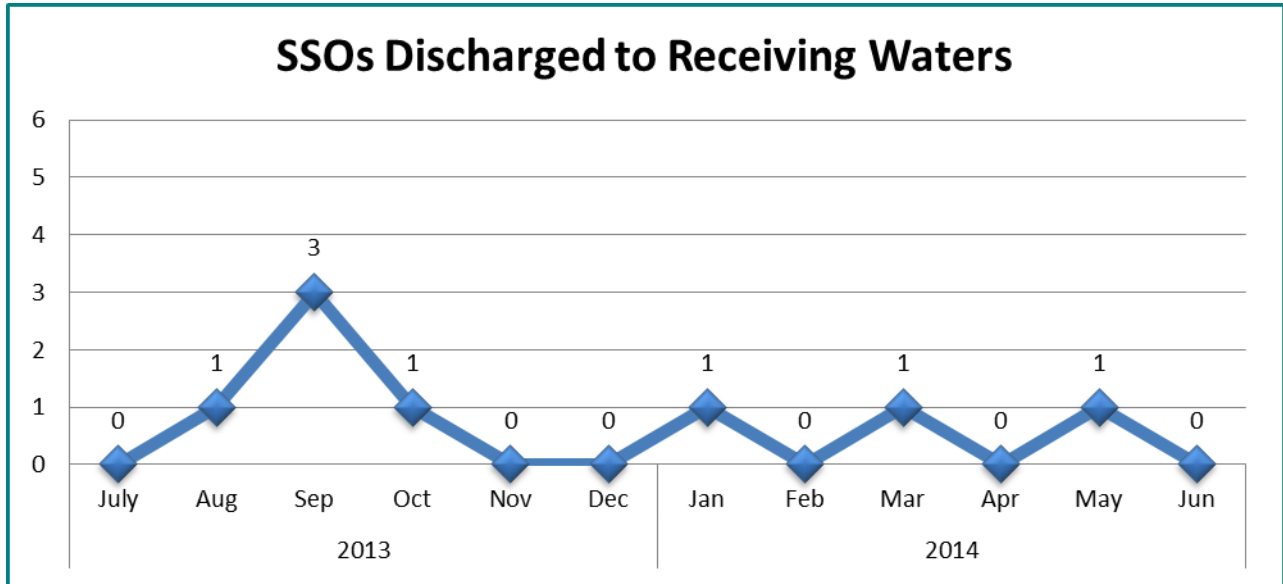


Figure 4.C – Public Sanitary Sewer Overflows Discharged to Receiving Water



Public Sanitary Sewer Overflows Discharged to Receiving Water – Comparison Year 2012-2013

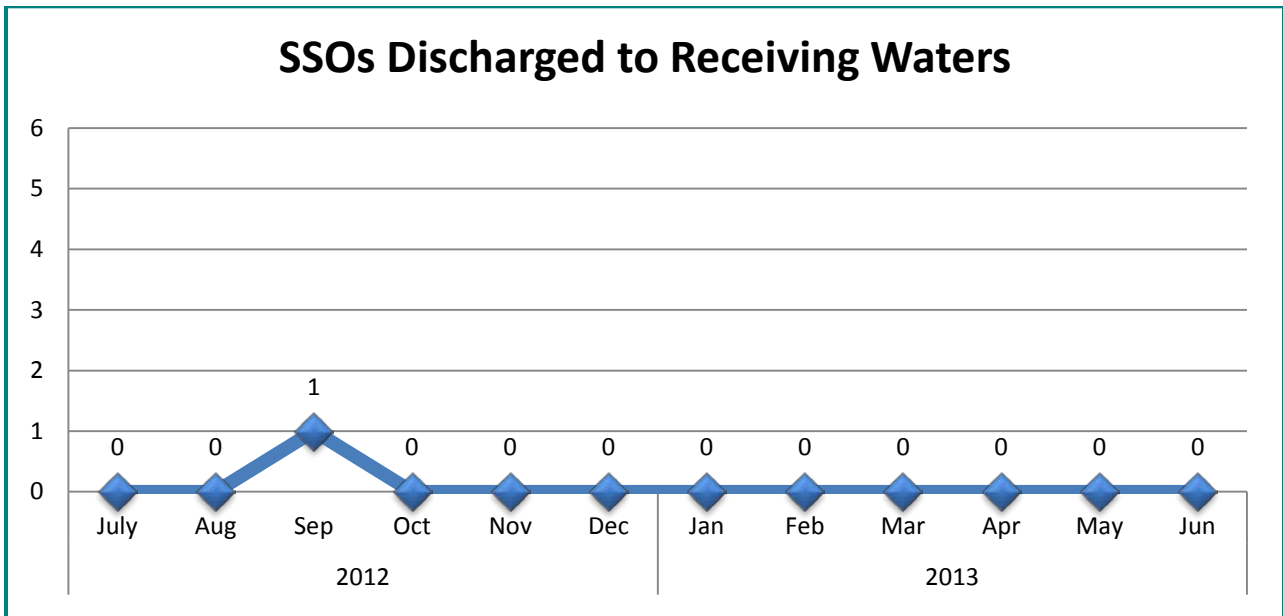


Table 4.2 – Sewer Maintenance Activity Summary

	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	FISCAL YTD
<b>Repairs – Sewer</b>													
# 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
<b>Maintenance – Sewer</b>													
# 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.)*

## Comparison Year 2012-2013 – Sewer Maintenance Activity Summary

	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	FISCAL YTD
<b>Repairs – Sewer</b>													
# of Lateral Repairs	10	24	23	7	14	21	24	11	15	20	17	22	208
Lateral Repairs, Linear Feet	55	93	171	46	71	149	105	36	101	150	98	75	1,150
# of Main Line Repairs	5	4	2	2	2	2	2	2	1	5	4	6	37
Main Line Repairs, Linear Feet	17	17	0	11	6	25	8	30	6	19	23	26	188
Maintenance Hole Repair/New	4	13	5	4	3	7	10	23	16	4	11	12	112
Sewer Taps	1	0	1	0	0	0	0	0	0	0	0	0	2
<b>Maintenance – Sewer</b>													
# of Main Line Segments Jetted	628	707	516	625	445	231	824	1,090	725	1,116	1,219	952	9,078
Main Line Linear Feet Jetted	173,690	209,485	147,668	179,658	135,726	45,662	257,991	322,954	211,162	318,338	319,976	243,208	2,565,518
# of Main Line Segments Rodded	41	67	46	47	16	16	51	28	25	35	20	11	373
Main Line Linear Feet Rodded	13,466	20,838	15,692	13,797	4,888	5,242	11,707	9,288	8,093	11,870	22,074	3,118	140,073
Laterals Foamed	148	132	95	93	47	52	45	142	123	143	78	118	1,216
Laterals Foamed, Linear Feet	7,400	6,600	4,750	4,650	2,350	2,600	2,250	7,100	6,150	7,150	2,900	5,900	59,800

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

Table 4.3 – Customer Service and CCTV Activity Summary

<i>CUSTOMER SERVICE</i>	<i>JUL</i>	<i>AUG</i>	<i>SEP</i>	<i>OCT</i>	<i>NOV</i>	<i>DEC</i>	<i>JAN</i>	<i>FEB</i>	<i>MAR</i>	<i>APR</i>	<i>MAY</i>	<i>JUN</i>	<i>FISCAL YTD</i>
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.)*

Comparison Year 2012-2013 – Customer Service and CCTV Activity Summary

<i>CUSTOMER SERVICE</i>	<i>JUL</i>	<i>AUG</i>	<i>SEP</i>	<i>OCT</i>	<i>NOV</i>	<i>DEC</i>	<i>JAN</i>	<i>FEB</i>	<i>MAR</i>	<i>APR</i>	<i>MAY</i>	<i>JUN</i>	<i>FISCAL YTD</i>
Service Calls	357	389	334	466	500	438	575	471	418	469	451	421	5,289
USA Requests	1,488	1,132	1,087	1,057	671	805	925	867	876	1,105	1,106	1,051	12,170
TV Sanitary Line Segment Inspections	88	92	85	142	111	69	149	455	420	124	177	193	2,105
TV Sanitary Line Segment Inspections, Linear Feet	21,839	20,773	22,533	37,902	31,137	20,299	37,369	126,471	115,937	33,093	43,738	49,075	560,166
TV Sanitary Lateral Inspections	41	12	8	19	24	33	43	37	100	36	24	52	429
TV Sanitary Lateral Inspections, Linear Feet	1,629	341	228	579	559	1,122	1,072	1,201	2,396	1,097	595	1,319	12,138

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

Table 4.4 – Spoils Activity Summary

<i>SPOILS ACTIVITY SUMMARY</i>	<i>JUL</i>	<i>AUG</i>	<i>SEP</i>	<i>OCT</i>	<i>NOV</i>	<i>DEC</i>	<i>JAN</i>	<i>FEB</i>	<i>MAR</i>	<i>APR</i>	<i>MAY</i>	<i>JUN</i>	<i>FISCAL YTD</i>
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
<b>Total Loads</b>	<b>12</b>	<b>12</b>	<b>9</b>	<b>22</b>	<b>0</b>	<b>12</b>	<b>0</b>	<b>2</b>	<b>4</b>	<b>13</b>	<b>3</b>	<b>7</b>	<b>96</b>
<b>Total Tonnage</b>	<b>113.79</b>	<b>184.03</b>	<b>106.87</b>	<b>315.21</b>	<b>0</b>	<b>179.81</b>	<b>0</b>	<b>27.07</b>	<b>95.81</b>	<b>79.22</b>	<b>35.70</b>	<b>45.85</b>	<b>1,183.36</b>

Comparison Year 2012-2013 – Spoils Activity Summary

<i>SPOILS ACTIVITY SUMMARY</i>	<i>JUL</i>	<i>AUG</i>	<i>SEP</i>	<i>OCT</i>	<i>NOV</i>	<i>DEC</i>	<i>JAN</i>	<i>FEB</i>	<i>MAR</i>	<i>APR</i>	<i>MAY</i>	<i>JUN</i>	<i>FISCAL YTD</i>
Operations / Grit Hauling - # of Loads	0	0	4	0	0	0	0	0	0	0	0	0	4
Operations / Grit Hauling - Tonnage	0	0	59.54	0	0	0	0	0	0	0	0	0	59.54
Sanitary Lines / Pump Stations - # of Loads	0	0	9	0	0	0	0	0	0	8	0	0	17
Sanitary Lines / Pump Stations - Tonnage	0	0	116	0	0	0	0	0	0	112.76	0	0	228.76
Construction Hauling – # of Loads	4	6	15	5	3	14	11	4	0	13	8	0	83
Construction Hauling – Tonnage	103.36	84.38	195	69.11	35	215.50	132.57	58.82	0	165.53	116.57	0	1,175.84
<b>Total Loads</b>	<b>4</b>	<b>6</b>	<b>31</b>	<b>5</b>	<b>3</b>	<b>14</b>	<b>11</b>	<b>4</b>	<b>0</b>	<b>21</b>	<b>8</b>	<b>0</b>	<b>107</b>
<b>Total Tonnage</b>	<b>103.36</b>	<b>84.38</b>	<b>392.54</b>	<b>69.11</b>	<b>35</b>	<b>215.50</b>	<b>132.57</b>	<b>58.82</b>	<b>0</b>	<b>278.29</b>	<b>116.57</b>	<b>0</b>	<b>1,486.14</b>

Table 4.5 – Graffiti Removal

<i>Name / Location of Pump Stations Painted</i>
NONE

Table 4.6 – Maintenance Work Order Summary

<i>Maintenance Work Orders</i>	<i>Corrective Maintenance</i>	<i>Corrective Maintenance % Completed</i>	<i>Corrective Maintenance %Backlog</i>	<i>Preventive Maintenance % Backlog</i>
<b>Sanitary Pumping Facilities</b>				
Pump Station Mechanical	77	96.1	3.9	13.7
Pump Station Electrical	9	100.0	0.0	22.7

**THIS PAGE INTENTIONALLY LEFT BLANK**



## Environmental Control

---

**THIS PAGE INTENTIONALLY LEFT BLANK**

Table 5.1 – Operational Activity Summary

Activity/Indicator	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun
<b>Pretreatment Program</b>												
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
<b>Waste Hauler Program</b>												
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
<b>Stormwater Program</b>												
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
<b>FOG Program</b>												
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

\* Discharge Permits (New) –  
1 – SIU Discharge Permit

\*\* Discharge Permits (Renewal) –  
1 – Septic Hauler Permit Renewal

\*\*\* Pretreatment Enforcement Actions –  
4/2014 – NOV/CO, Missed TDS sample  
5/2014 – NOV/CO, Exceeded 5,000 gallon monthly flow limit  
5/2014 – NOV/CO, Exceeded 4,500,000 gallon monthly flow limit  
5/2014 – NOV/CO, Exceeded 3,600,000 gallon monthly flow limit  
6/4/14 – NOV/CO, Exceeded 5mg/L instantaneous Chromium limit by 2.5 mg/L

\*\*\*\* Hazardous Materials Spills –  
6/27/14 – No Enforcement Issued (vandalism; unknown responsible party), <10 gallons of gasoline discharged to gutter and entered city storm system; Clean up completed by Ponder Environmental.

\*\*\*\*\* Stormwater Enforcement Actions –

## Comparison Year 2012-2013 –Operational Activities Summary

Activity/Indicator	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun
<b>Pretreatment Program</b>												
Industrial Inspections	38	42	48	43	36	16	32	23	43	35	39	41
Industrial Sampling	34	37	42	37	36	14	29	20	34	29	34	37
Discharge Permits (new)	1	1	0	1	2	0	2	0	1	0	2	0
Discharge Permits (renewal)	1	0	0	1	0	1	2	2	0	2	3	1
Industrial Flow, MG	146.53	179.71	168.16	132.75	82.96	92.86	86.27	82.71	86.82	81.21	78.20	79.57
Industrial BOD, lbs.	970,900	1,392,400	883,410	609,270	495,410	488,520	549,560	401,310	559,620	449,750	443,220	426,670
Industrial TSS, lbs.	536,550	872,600	389,840	290,800	90,280	95,280	105,950	88,920	128,220	93,340	83,010	91,990
Industrial Revenue	\$ 527,979	\$ 569,882	\$ 517,850	\$ 486,222	\$ 450,330	\$ 477,066	\$ 447,370	\$ 431,782	\$ 442,071	\$ 434,769	\$ 429,394	\$ 458,672
Pretreatment Enforcement Actions	2	3	7	3	5	3	2	5	8	7	5	2
<b>Waste Hauler Program</b>												
Trucked-in Waste Loads	233	225	168	204	182	247	216	204	222	296	242	263
Trucked-in Waste Gallons	707,131	690,871	514,576	610,475	542,490	718,320	641,503	624,875	654,445	874,378	701,064	781,780
Trucked-in Waste Revenue	\$ 25,068	\$ 24,285	\$ 18,121	\$ 21,864	\$ 19,485	\$ 26,269	\$ 23,102	\$ 22,004	\$ 23,696	\$ 31,613	\$ 25,711	\$ 28,136
<b>Stormwater Program</b>												
Hazardous Materials Spills	1	1	0	0	0	2	3	0	1	1	0	0
Stormwater Complaints	1	1	2	1	2	3	4	1	2	3	3	0
Stormwater Enforcement Actions	1	0	0	1	1	2	4	0	0	1	1	0
<b>FOG Program</b>												
FOG Initial Inspections	114	76	73	100	80	86	111	142	25	16	21	10
FOG Enforcement Actions	15	29	34	44	48	41	52	28	44	54	39	25
FOG Follow-up Inspections	11	22	21	40	31	32	45	17	86	80	56	50

## Laboratory

Table 6.1 – Acute Toxicity Testing Summary

Date of EFF-001 Sample (composite)	Percent survival	Lab
06-01-14	100	PERL
06-08-14	100	PERL
06-15-14	100	PERL
06-22-14	100	PERL
06-29-14	100	PERL

### Chronic Toxicity

Table 6.2 – Algae (*Selenastrum capricornutum*)

Sample Date	NOEC	TUc (100/NOEC)	IC <sub>50</sub>	TUc (100/IC <sub>50</sub> )	Comments
7-22-13	100%	1.0	>100%	<1	Lab water control
11-11-13	100%	1.0	>100%	<1	Lab water control
1-20-14	100%	1.0	>100%	<1	Lab water control
4-21-14	100%	1.0	>100%	<1	Lab water control

Testing continues quarterly and is next scheduled for August 2014.

Table 6.3 – *Ceriodaphnia* (*C. dubia*)

Sample Date	Survival				Reproduction			
	NOEC	TUc (100/NOEC)	EC <sub>50</sub>	TUc (100/IC <sub>50</sub> )	NOEC	TUc (100/NOEL)	IC <sub>50</sub>	TUc (100/IC <sub>50</sub> )
7-22-13*	100%	1.0	>100%	<1	25%	4	>100%	<1
8-4-13#	100%	1.0	>100%	<1	100%	1	>100%	<1
8-18-13##	100%	1.0	>100%	<1	100%	1	>100%	<1
9-1-13###	100%	1.0	>100%	<1	100%	1	>100%	<1
9-15-13####	100%	1.0	>100%	<1	100%	1	>100%	<1
11-11-13**	100%	1.0	>100%	<1	6.25%	<i>Not reported: Invalid test due to microbial / pathogen interference</i>		
11-20-13***	100%	1.0	>100%	<1	100%	1	>100%	<1
1-20-14	100%	1.0	>100%	<1	100%	1	>100%	<1
4-21-14	100%	1.0	>100%	<1	100%	1	>100%	<1

\* Toxicity to reproduction initiates accelerated monitoring.

# Accelerated monitoring #1 of 4

## Accelerated monitoring #2 of 4

### Accelerated monitoring #3 of 4

#### Accelerated monitoring #4 of 4

\*\* Invalid test due to microbial/pathogen interference

\*\*\* Repeat test

Testing continues quarterly and is next scheduled for August 2014.

Table 6.4 – Fathead Minnow (*Pimephales Promelas*)

Sample Date	Survival				Growth			
	NOEC	TUc (100/NOEC)	EC <sub>50</sub>	TUc (100/IC <sub>50</sub> )	NOEC	TUc (100/NOEL)	IC <sub>50</sub>	TUc (100/IC <sub>50</sub> )
7-22-13	100%	1.0	>100%	<1	100%	1.0	>100%	<1
11-11-13	100%	1.0	>100%	<1	100%	1.0	>100%	<1
1-20-14	100%	1.0	>100%	<1	100%	1.0	>100%	<1
4-21-14	100%	1.0	>100%	<1	100%	1.0	>100%	<1

Testing continues quarterly and is next scheduled for August 2014.

Table 6.5 – Effluent Cyanide Summary

Date	Cyanide, µg/L
05-14-14	DNQ 3.0
06-11-14	DNQ 2.9

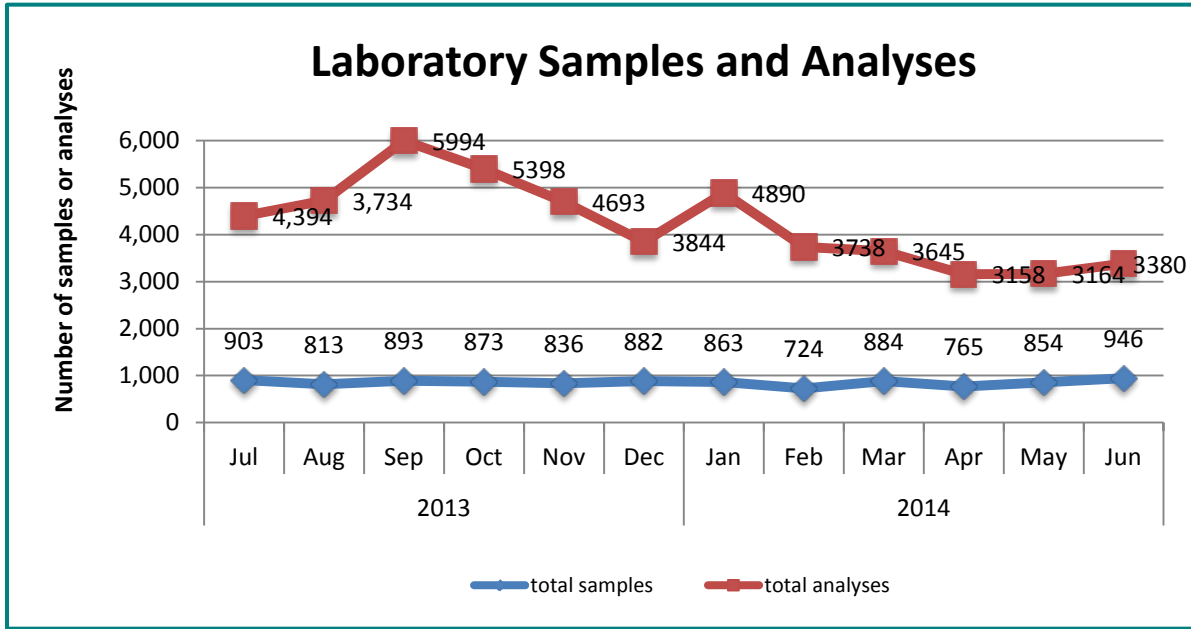
ND = Not detected at the MDL

DNQ = Detected not quantified result between MDL and RL, the MDL is 0.90 and the RL is 3 µg/L

Table 6.6 – Effluent Ammonia-N Summary

EFF-001 (Final Effluent)	Regulatory NH <sub>3</sub> -N, mg/L	Process Control NH <sub>3</sub> -N, mg/L
Monthly Minimum	<0.5	0.18
Monthly Maximum	0.80	0.96
Monthly Average	<0.6	0.41
Number of samples	10	30

Figure 6.A – Laboratory Samples and Analyses



Laboratory Samples and Analyses – Comparison Year 2012-2013

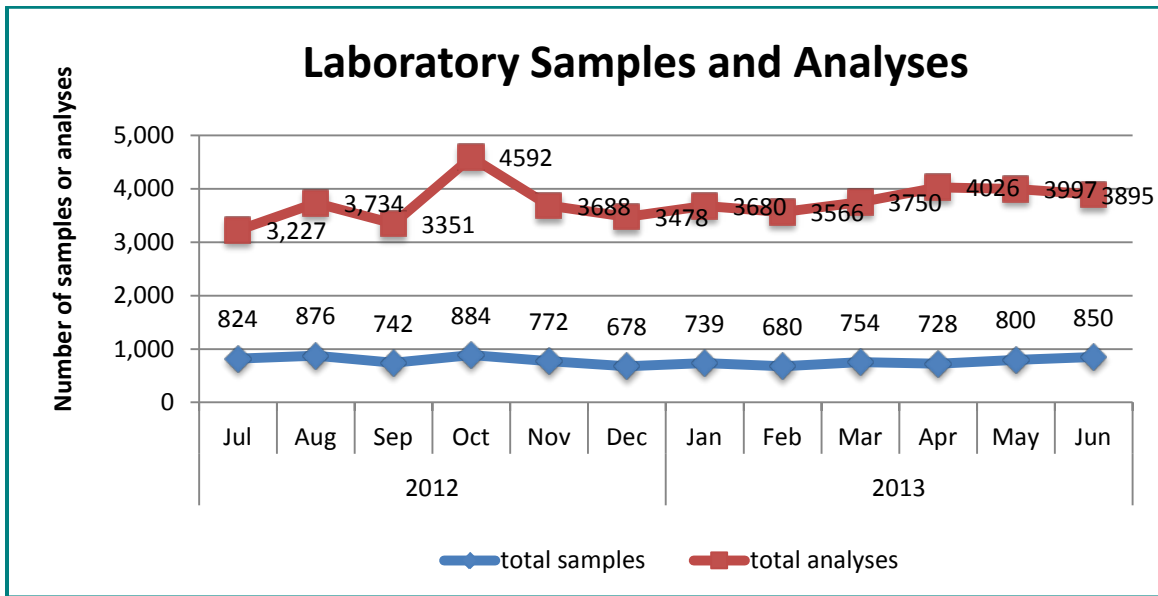
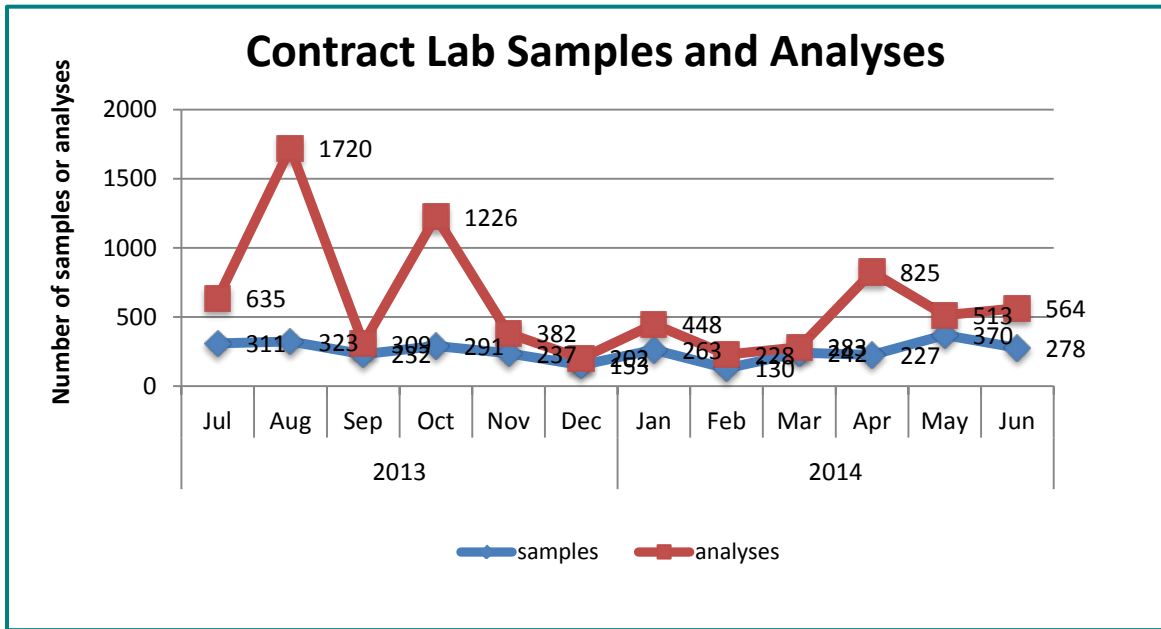


Figure 6.B – Contract Laboratory Samples and Analyses



Contract Laboratory Samples and Analyses – Comparison Year 2012-2013

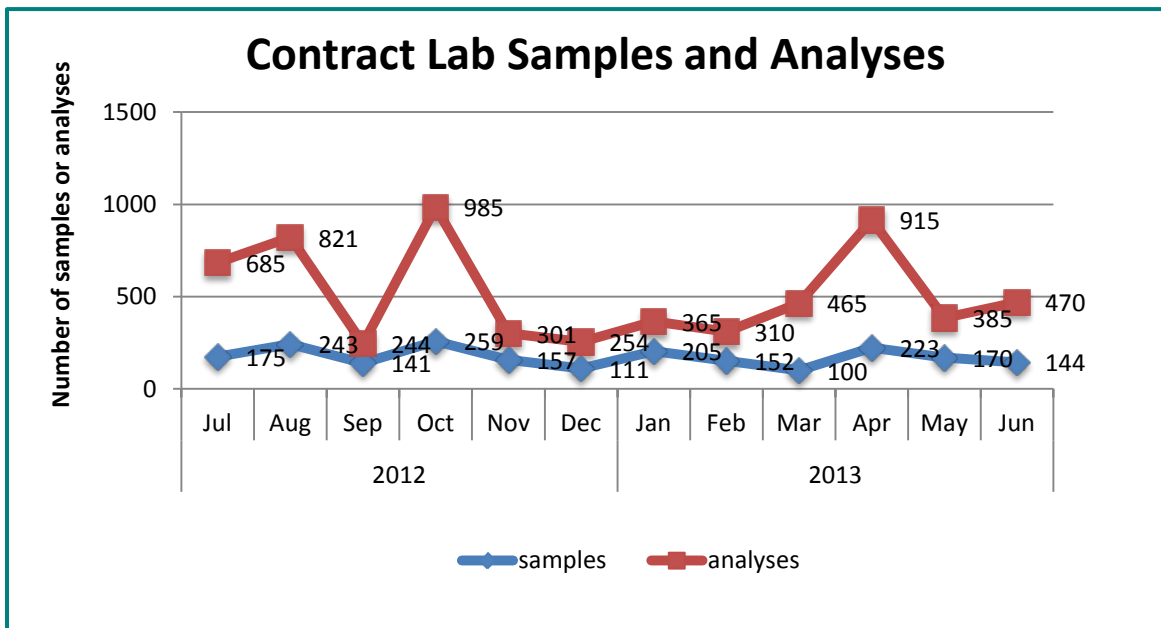
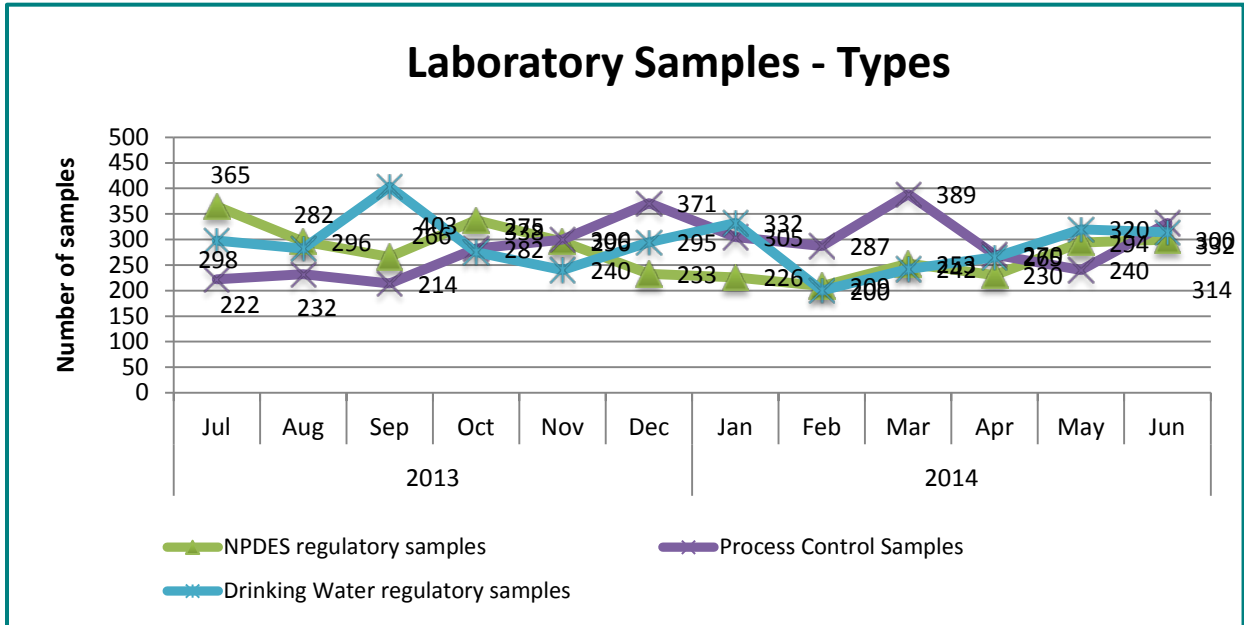
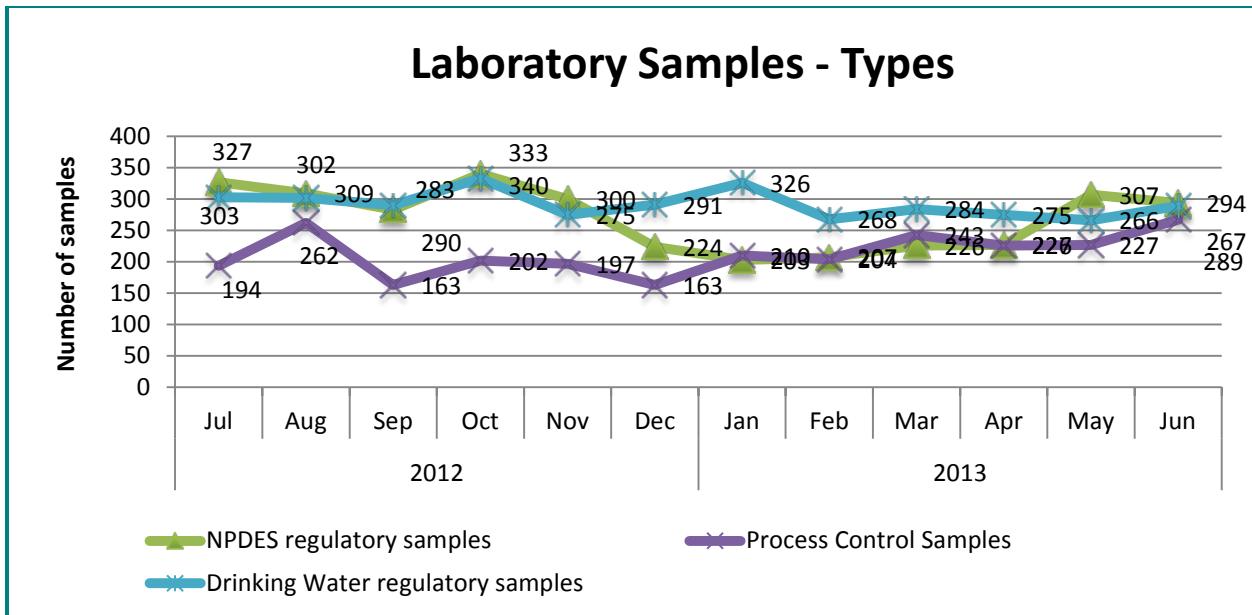




Figure 6.C – Laboratory Sample Types



Laboratory Sample Types Comparison Year 2012-2013



**THIS PAGE INTENTIONALLY LEFT BLANK**

## Engineering

Figure 7.A – Development Reviews Received and Completed

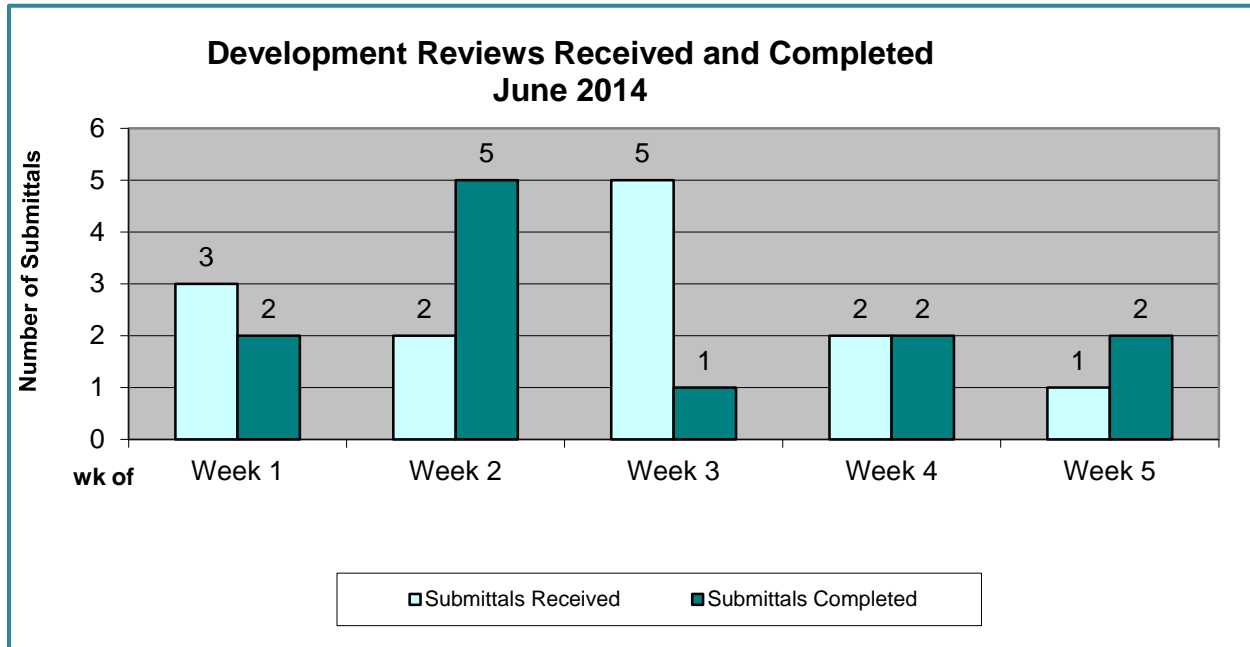
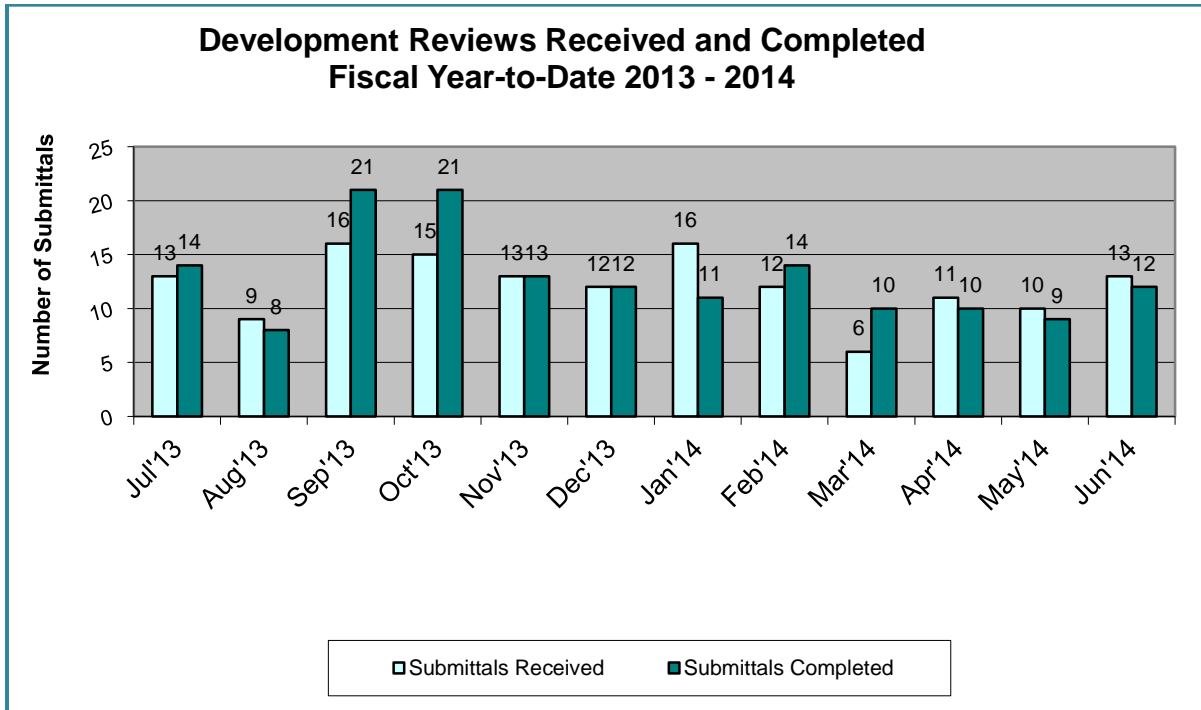


Figure 7.B – Development Reviews Received and Completed Year-to-Date



Development Reviews Received and Completed – Comparison Year 2012-2013

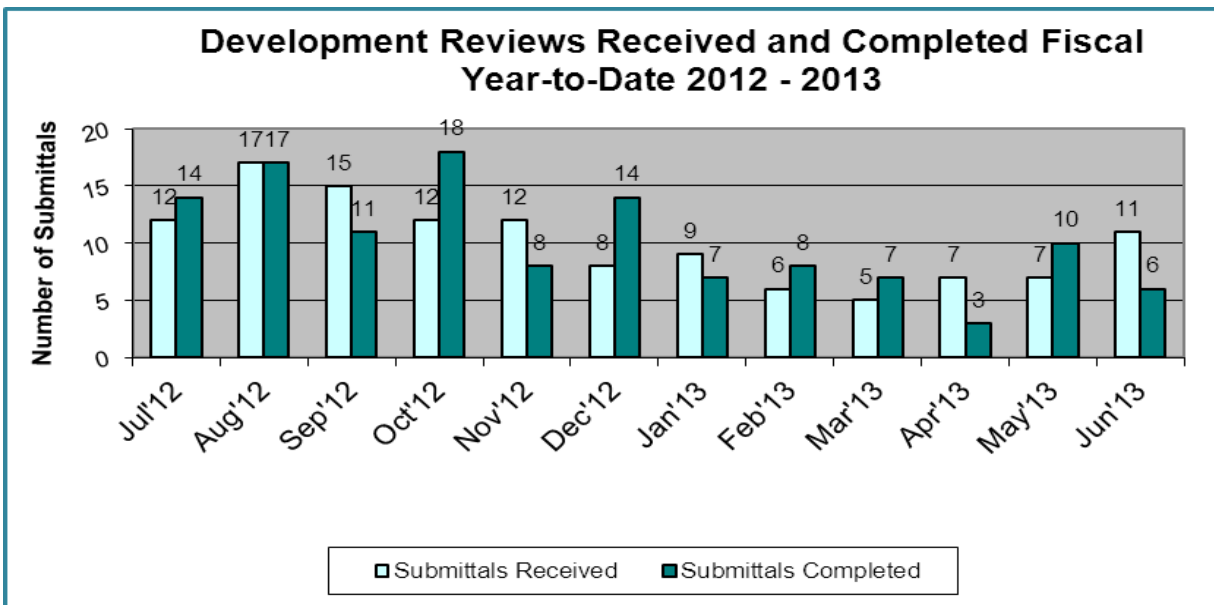














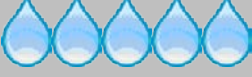










Table 7.1 – Nonpotable, Stormwater, Water, and Wastewater Projects

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
2012 Sanitary Sewer Rehabilitation Project (M11002)		\$75,000	
Arch Road Sanitary Sewer Trunk Line (M09106)		\$2,500,000	
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	
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	

**THIS PAGE INTENTIONALLY LEFT BLANK**

## Stormwater

---

**THIS PAGE INTENTIONALLY LEFT BLANK**



Table 8.1 – Stormwater Maintenance Activity Summary

	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	FISCAL YTD
<b>Repairs – Storm</b>													
# 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
<b>Storm – Maintenance</b>													
# 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.)

## Comparison Year 2012-2013 – Stormwater Maintenance Activity Summary

	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	FISCAL YTD
<b>Repairs – Storm</b>													
# of Catch Basin Lateral Repairs/New	1	0	0	0	0	0	0	0	1	1	0	0	3
Catch Basin Lateral Repairs/New, Linear Feet	6	0	0	0	0	0	0	0	2	2	0	0	10
# of Storm Main Line Repairs	0	0	0	0	0	0	0	0	0	0	0	0	0
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	0	2	0	0	0	0	0	2	0	1	0	0	5
# of Storm Maintenance-hole Repairs/New	0	0	0	2	0	0	0	0	0	0	0	0	2
<b>Storm – Maintenance</b>													
# of Catch Basin Laterals Jetted	3	0	5	2	13	16	0	2	2	13	5	4	65
Catch Basin Laterals Jetted, Linear Feet	125	0	200	25	525	480	0	100	118	915	250	230	2,968
# of Catch Basin Laterals Rodded	0	0	0	0	0	0	0	0	1	0	0	0	1
Catch Basin Laterals Rodded, Linear Feet	0	0	0	0	0	0	0	0	50	0	0	0	50
# of Storm Main Lines Jetted	0	0	8	1	2	1	2	0	0	4	1	0	19
Storm Main Lines Jetted, Linear Feet	0	0	915	241	470	306	555	0	0	520	350	0	3,357
# of Storm Main Lines Rodded	0	0	0	0	0	0	0	0	0	0	0	1	1
Storm Main Lines Rodded, Linear Feet	0	0	0	0	0	0	0	0	0	0	0	350	350
# of Storm Catch Basins Cleaned	5	20	2	5	131	444	2	4	6	23	117	52	811
# of Storm Maintenance-holes Cleaned	0	1	1	1	3	1	0	3	0	3	2	0	15
# of Storm Pump Stations Cleaned	1	6	9	11	1	0	0	0	2	0	0	0	30
# of tons of Debris Removed from Storm Stations	92.10	32.80	10.7	16.85	4.30	0	0	0	0	0	0	0	157
# of Storm Catch Basins Inspected	0	2	1	0	0	0	0	0	0	0	0	0	3
# of Storm Catch Basins Stenciled	0	9	0	0	0	0	0	0	0	0	0	0	9
# of Storm Event Calls	0	0	0	0	240	597	15	15	11	16	0	0	894
Storm Event Line Clean-up, Linear Feet	0	0	0	0	12	177	27	39	8	48	0	0	354
TV Storm Line Segment Inspections	0	0	3	0	0	0	0	0	0	0	0	0	3
TV Storm Line Segment Inspections, Linear Feet	0	0	704	0	0	0	0	0	0	0	0	0	704
Spoils Storm Pump Stations / CBs - # of Loads	0	0	3	0	0	0	0	0	0	0	0	0	3.00
Spoils Storm Pump Stations / CBs - Tonnage	0	0	22	0	0	0	0	0	0	0	0	0	22.00

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

Table 8.2 – Inspections

<i>Total Sites</i>	<i>Jul</i>	<i>Aug</i>	<i>Sep</i>	<i>Oct</i>	<i>Nov</i>	<i>Dec</i>	<i>Jan</i>	<i>Feb</i>	<i>Mar</i>	<i>Apr</i>	<i>May</i>	<i>Jun</i>
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

## Inspections – Comparison Year 2012-2013

<i>Total Sites</i>	<i>Jul</i>	<i>Aug</i>	<i>Sep</i>	<i>Oct</i>	<i>Nov</i>	<i>Dec</i>	<i>Jan</i>	<i>Feb</i>	<i>Mar</i>	<i>Apr</i>	<i>May</i>	<i>Jun</i>
Total Sites	20	18	17	13	17	16	16	18	19	20	19	16
Inspections	20	18	17	13	17	16	16	18	19	20	19	16
Verbal Warnings	5	3	2	2	7	4	5	4	3	8	5	11
Correction Orders	4	1	2	1	2	2	12	4	3	2	4	1
Notice to Clean	2	1	1	1	1	2	6	3	4	2	1	2
Notice of Violation	0	0	1	0	3	2	12	0	3	3	0	1
Admin. Citations	0	0	1	0	3	2	12	0	3	3	0	0
Referred to RWQCB	0	0	0	0	0	0	12	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	59,129	52,913	52,886	53,014	52,859	52,863	52,708	52,689	52,950	52,663	52,685	52, 867	429,061
Literature Distribution			1,000	200						40			1,200
Presentations / Study Guides											2		2
<i>Tour - UOP Engineering Class</i>								28			0	0	28
Multi-Media – Radio, TV											0	0	
<i>Radio &amp; TV</i>		100,000			256,000						0	0	356,000
<i>Ports Monster Wall</i>	42,164	38,205	259	2,844	4,063								87,535
<i>Comcast Website</i>	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
<i>Family Day in the Park</i>			5,000										5,000
<i>Stockton Is Magnificent</i>				500									500
<i>Hmong New Year</i>					350								350

Outreach - Comparison Year 2012-2013

Description	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	FYTD
Utility Bill Insert	47,594	47,613	47,669	47,621	47,589	47,501	52,109	52,049	52,576	52,875	52,741	52,808	600,745
Literature Distribution							60				20		80
Presentations / Study Guides													0
August Knodt Science Fair							200						200
Primary Years Academy											30		30
Multi-Media – Radio, TV													0
<i>Radio &amp; TV</i>							331,400			331,400	156,000	156,000	974,800
<i>Ports Monster Wall</i>										34,612	50,484	39,789	124,885
Theater Ads											44,744	74,124	118,868
Newspaper/Magazines									11,000		16,500	111,000	138,500
Website/Hotline					5,633	5,000	1,504	1,484	3,468	37,703	52,741	36,865	144,398
Events													
<i>Stockton Ports</i>	365	135											500
<i>Earth Day</i>										300			300
<i>State of the City</i>											500		500
<i>Senior Awareness Day</i>											3,000		3,000

Table 8.4 – Stormwater Pumping Facilities Work Order Summary

	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN
<b>Pump Station Mechanical</b>												
<i>Corrective Maintenance</i>	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
<i>Preventive Maintenance</i>												
% 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
<b>Pump Station Electrical</b>												
<i>Corrective Maintenance</i>	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
<i>Preventive Maintenance</i>												
% 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

Work Order Summary - Comparison Year 2012-2013

	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN
<b>Pump Station Mechanical</b>												
<i>Corrective Maintenance</i>	10	16	11	27	11	23	12	12	20	29	17	5
% Completed	60	87.5	45.5	77.8	63.6	60.9	75.0	50	35	17.2	58.8	60
% Backlog	40	12.5	54.5	22.2	26.4	43.5	25.0	50.0	65.0	82.8	41.2	40
<i>Preventive Maintenance</i>												
% Backlog	50.7	78.5	43.4	1.9	79.2	61.7	39.0	23.3	64.3	44.3	19	32.2
<b>Pump Station Electrical</b>												
<i>Corrective Maintenance</i>	3	22	10	25	15	26	11	2	10	5	5	3
% Completed	100	100	80	80	60	61.5	81.8	100	40	80	60	33.3
% Backlog	0	0	20	20	40	42.3	18.2	0	60	20	40	66.7
<i>Preventive Maintenance</i>												
% Backlog	NA	NA	88.1	NA	NA	100	NA	NA	98.6	N/A	0.0	97.2

**THIS PAGE INTENTIONALLY LEFT BLANK**

## Administration

Table 9.1 – Summary of Unsafe Conditions or Acts

	<i>Current Month</i>	<i>Calendar Year</i>
Number of Unsafe Conditions or Acts Reported	0	2
Number of Vehicle Incidents: No Fault of Employee	0	2
Number of Vehicle Incidents: Fault of Employee	1	2

Table 9.2 – Summary of Work-Related Injuries and Illnesses

	<i>Current Month</i>	<i>Calendar Year</i>
Number of Cases	3	11
Number of Cases with Lost Time	0	1
Number of Cases with Work Restrictions	2	4

Table 9.3 – Summary of Safety Training

	<i>Training Hours Delivered</i>	<i># of Attendees</i>	<i>Total Attendee Hours</i>
<b>Tailgate Sessions</b>			
Slips, Trips, and Falls	1	12	12
Cell Phone Usage	1	11	11
Near Misses	1	3	3
<b>Training</b>			
Noise and Hearing Conservation	8	1	8
Ergonomics for Office	8	1	8
CPR, First Aid & AED	6	20	120
<b>TOTAL</b>	<b>25</b>	<b>48</b>	<b>162</b>

## Human Resources Operational Activities

Table 9.4 – Staffing Summary

<i>Divisions</i>	<i># of Positions</i>	<i># of Employees</i>	<i>Vacancies</i>	<i>Change (+/-)</i>
Administration	16	13	3	
Financial Services	5	5	0	
Collections	62	61	1	
Engineering	13	11	2	-1
Environmental Control	7	7	0	
Laboratory	7	5	2	
Wastewater Treatment	48	41	7	+1
Water Treatment/Distribution	29	25	4	-1
Water Resources/Treatment	21	18	3	+2
<b>TOTAL STAFF COUNT</b>	<b>208</b>	<b>186</b>	<b>22</b>	<b>-2 / +2</b>

Table 9.5 – Overtime Summary

<i>Division</i>	<i>Jul</i>	<i>Aug</i>	<i>Sep</i>	<i>Oct</i>	<i>Nov</i>	<i>Dec</i>	<i>Jan</i>	<i>Feb</i>	<i>Mar</i>	<i>Apr</i>	<i>May</i>	<i>Jun</i>
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
<b>TOTALS</b>	<b>2,228.25</b>	<b>2,760.75</b>	<b>2,365.25</b>	<b>2,283.25</b>	<b>3,009</b>	<b>2,144.50</b>	<b>2,098.75</b>	<b>2,002.50</b>	<b>1,973</b>	<b>1,592</b>	<b>2,594.50</b>	<b>1,987.50</b>

Overtime Summary – Comparison Year 2012-2013

<i>Division</i>	<i>Jul</i>	<i>Aug</i>	<i>Sep</i>	<i>Oct</i>	<i>Nov</i>	<i>Dec</i>	<i>Jan</i>	<i>Feb</i>	<i>Mar</i>	<i>Apr</i>	<i>May</i>	<i>Jun</i>
Administration	31.75	22.25	42.00	21.50	48.25	14.25	51.75	48.75	50.75	43.50	20.50	42.50
Business Services	0	0	0	0	0	0	0	0	0	0	7.25	5
Collections	209	454	288	364.25	612.75	570	396.75	506.75	372.50	737.25	730.75	613.50
Engineering	0	9.50	0	6.50	0	21.25	4	8	0	0	11	13
Env. Control	0	3.75	10	0	2	8.25	46.75	36	35.50	10.25	3.50	0
Laboratory	4.50	0.50	0	3.75	28	8	17.50	12.50	22.75	10.25	8	6.75
Maintenance	155.25	464.25	188.50	99.50	275.25	287	269.50	305.75	148.75	170.50	194.75	182.75
WW Treatment	453.25	421	423.75	267	658	549.50	669	504	577.50	392.75	574.75	701.25
Stormwater	0	0	8	0	0.50	8	0	0.50	16.25	0	0	50.50
Water Distribution	160	187	201.25	121.50	239	93.75	107	77.75	170	115.50	187	192.25
Water Resources	0	0	3	0	0	0	0	0	0	1.5	2.50	0
Water Treatment	308.25	253.25	392.75	262.75	343.50	310.75	249.75	248	377.50	278	262.75	362
<b>TOTALS</b>	<b>1,322.00</b>	<b>1,815.50</b>	<b>1,557.25</b>	<b>1,146.75</b>	<b>2,207.25</b>	<b>1,870.75</b>	<b>1,812.00</b>	<b>1,748.00</b>	<b>1,771.50</b>	<b>1,759.50</b>	<b>2,002.75</b>	<b>2,169.50</b>



# Appendix A

## Water

---

### **Title 22 Compliance Water Well Sampling**

### **Summary Well System Operations**

**THIS PAGE INTENTIONALLY LEFT BLANK**

## Title 22 Compliance - Drinking Water Monitoring

---

### Compliance Sampling

Source (Well # or DS)	Sample Date	Parameter
31	06-04-14	VOCs
18	06-24-14	Qrtly EC/TDS
3R	06-24-14	Qrtly TDS (due to missed hold time by BSK)

**Exceptions**

No exceptions this month.

**Well Status Changes**

(none)

**Other**

(none)





## Appendix B

### Environmental Compliance

---

**Monitored Industrial User Charges**

**Customer Charges Report**

**Septic Waste Haulers' Charges**

**THIS PAGE INTENTIONALLY LEFT BLANK**



May-14

## MONITORED INDUSTRIAL USER MONTHLY CHARGES

6/18/2014

CUST ID #	COMPANY	CHG CODE	STANDBY			SUB-TOTAL	LOADING			OTHER	SUB-TOTAL	ADMIN FEE	TOTAL
			FLOW	BOD	TSS		FLOW	BOD	TSS				
6305	American Sunny Foods	SIM15	0.48	1.20	0.45	\$396.49	0.04	0.05	0.02	\$0.00	\$20.75	\$20.55	\$437.78
10017	BJJ Trucking	SIM16	0.51	12.51	1.25	\$1,460.99	0.28	4.66	0.41	\$0.00	\$305.81	\$20.55	\$1,787.35
84901	Niagara 811 Zephyr	SIM28	7.86	12.78	3.29	\$4,491.77	1.35	0.15	0.22	\$0.00	\$650.68	\$20.55	\$5,163.01
6290	California Spray Dry Co.	SIM2	5.10	118.00	28.00	\$14,981.29	0.32	16.77	3.03	\$0.00	\$858.17	\$20.55	\$15,860.01
4990	California Tank Lines	SIM17	1.00	14.18	4.90	\$2,109.93	0.54	4.00	3.24	\$0.00	\$556.33	\$20.55	\$2,686.81
6240	Campbell Soup Supply	SIM12	65.00	330.00	230.00	\$79,289.40	0.27	0.01	0.08	\$0.00	\$130.65	\$20.55	\$79,440.60
43328	Cintas Corporation	SIM24	3.69	23.00	12.00	\$4,807.27	3.69	8.93	3.96	\$0.00	\$2,235.81	\$20.55	\$7,063.63
6245	Ingredion Incorporated (Corn Prod)	SIM3	40.45	458.58	93.50	\$68,468.01	23.20	298.89	87.84	\$0.00	\$25,333.73	\$20.55	\$93,822.29
83095	California Health Care Facility	USI6				\$0.00	1.74			\$0.00	\$818.93	\$20.55	\$839.48
43838	Midway, Crosstown Commons	SIM4	3.00	10.00	0.30	\$2,534.31	0.00	0.00	0.00	\$0.00	\$0.00	\$20.55	\$2,554.86
6270	Diamond of California	SIM5	8.00	210.00	145.00	\$32,202.60	1.90	48.68	22.82	\$0.00	\$3,687.13	\$20.55	\$35,910.28
75519	Dole Packaged Foods LLC Stock	SIM30	1.22	10.30	5.22	\$1,906.12	0.48	4.18	1.24	\$0.00	\$426.46	\$20.55	\$2,353.13
5700	Duraflame	SIM14	3.10	3.75	1.75	\$1,800.62	0.18	0.05	0.03	\$0.00	\$90.00	\$20.55	\$1,911.16
5100	San Joaquin County French Camp	USI4					7.78			\$0.00	\$18,718.58	\$20.55	\$18,739.13
34202	Grinaud Farms	SIM19	0.80	6.00	2.00	\$1,093.26	0.69	4.49	1.31	\$0.00	\$541.24	\$20.55	\$1,655.05
6315	Hormel	SIM7	12.00	35.00	30.00	\$11,550.65	5.62	10.22	6.70	\$0.00	\$3,333.49	\$20.55	\$14,904.69
47912	New Stockton Poultry	SIM25	0.75	8.37	3.04	\$1,341.91	0.68	3.83	1.10	\$0.00	\$504.00	\$20.55	\$1,866.45
52651	Niagara	SIM27	4.80	2.04	0.69	\$2,837.67	4.80	0.08	0.14	\$0.00	\$2,270.66	\$20.55	\$5,128.88
5625	Northern California Youth Center	USI3					4.16			\$0.00	\$10,018.02	\$20.55	\$10,038.57
61727	Bruhin & Co.	SIM8	1.54	3.85	3.85	\$1,425.77	0.00	0.00	0.00	\$0.00	\$0.00	\$20.55	\$1,446.32
61265	Pacific Ethanol	SIM29	4.50	3.94	1.45	\$2,890.91	2.18	1.12	0.72	\$0.00	\$1,102.19	\$20.55	\$4,013.65
33746	Parsons Engineering Science	USI5					0.46			\$0.00	\$898.07	\$20.55	\$918.62
11149	Port of Stockton - Rough and Ready	USI2					8.16			\$0.00	\$19,632.37	\$20.55	\$19,652.92
6250	DTE	SIM10	5.50	7.62	7.62	\$4,157.03	2.75	0.40	1.47	\$0.00	\$1,386.37	\$20.55	\$5,563.95
33822	Sodexo	SIM18	6.93	8.60	5.17	\$4,864.50	2.86	4.09	1.48	\$0.00	\$1,558.58	\$20.55	\$6,443.62
21193	Stockton Sanitary Wash Rack	SIM20	0.64	50.06	5.12	\$5,089.04	0.11	28.72	0.23	\$0.00	\$1,008.38	\$20.55	\$6,117.98
42136	Tankenwash USA	SIM22	1.00	22.39	6.79	\$2,955.32	0.70	15.84	1.56	\$0.00	\$933.22	\$20.55	\$3,909.09
6320	Unilever Bestfoods	SIM13	60.00	675.00	300.00	\$111,485.25	0.41	1.82	0.79	\$0.00	\$292.47	\$20.55	\$111,798.27
40039	Unifirst Corp	SIM21	2.25	10.82	4.44	\$2,464.34	1.58	8.72	2.07	\$0.00	\$1,136.60	\$20.55	\$3,621.48
80635	Wilmar Gavilon LLC	SIM31	1.00	1.50	1.00	\$741.11	0.16	0.41	0.03	\$0.00	\$91.03	\$20.55	\$852.68
82602	Zacky Kitchens	SIM11	5.37	6.32	8.86	\$4,051.48	1.66	4.58	2.15	\$0.00	\$1,042.58	\$20.55	\$5,114.61
APPROVED BY:			246.48	2045.80	905.69	\$371,397.03	78.75	470.67	142.66	\$0.00	\$99,582.30	\$637.05	\$471,616.38

\$471,616.38

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	1864118	1825381	0.04	142	0.05	59	0.02	\$0.00	Jun-14
BJJ Trucking	22025920	21746622	0.28	2000	4.66	176	0.41	\$0.00	Jun-14
Niagara 811 Zephyr	143022424	141675624	1.35	13.5	0.15	20	0.22	\$0.00	Jun-14
California Spray Dry Co.	221305498	220988816	0.32	6120	16.77	1125	3.03	\$0.00	Jun-14
California Tank lines	59118314	58551478	0.54	883	4.00	715	3.24	\$0.00	Jun-14
Campbell Soup Supply	175736010	175467840	0.27	4	0.01	35	0.08	\$0.00	Jun-14
Cintas Corporation	76604340	72917910	3.69	290	8.93	129	3.96	\$0.00	Jun-14
Ingredion	478557552	455356783	23.20	1545	298.89	454	87.84	\$0.00	Jun-14
California Health Care Facility	12502173	10762329	1.74					\$0.00	Jun-14
Midway, Crosstown Commons	239350	239350	0.00	0	0.00	0	0.00	\$0.00	Jun-14
Diamond of California	90960624	89860975	1.90	3078	48.68	1443	22.82	\$0.00	Jun-14
Dole Packaged Foods LLC Stockton	15406443	14929996	0.48	1051	4.18	312.75	1.24	\$0.00	Jun-14
Duraflame/Cal Cedar	2918317	2733921	0.18	31.5	0.05	20	0.03	\$0.00	Jun-14
San Joaquin County - French Camp			7.78					\$0.00	Jun-14
Grimaud Farms	81055782	80365101	0.69	780	4.49	227.5	1.31	\$0.00	Jun-14
Hormel	661096.06	655473.12	5.62	218	10.22	143	6.70	\$0.00	Jun-14
New Stockton Poultry	55637039	54956152	0.68	375.25	3.83	193.75	1.10	\$0.00	Jun-14
Niagara	277765517	272962618	4.80	2	0.08	4	0.14	\$0.00	Jun-14
Northern California Youth Center	56477204	44531794	4.16	170	5.42	180	5.76	\$0.00	Jun-14
Brulin & Co. (formerly Paul Funston)			0.00		0.00		0.00	\$0.00	Jun-14
Pacific Ethanol	58918351	56735648	2.18	61.75	1.12	39.75	0.72	\$0.00	Jun-14
Parsons Engineering Science			0.46					\$0.00	Jun-14
Port of Stockton - Rough and Ready	9902452	1744110	8.16					\$0.00	Jun-14
DTE Company	30665688	27911885	2.75	17	0.40	65	1.47	\$0.00	Jun-14
Sodexo	1054219	1025605	2.86	171.00	4.09	61.87	1.48	\$0.00	Jun-14
Stockton Sanitary Wash Rack	142226	27339	0.11	29978	28.72	242	0.23	\$0.00	Jun-14
Tankerwash USA	43786510	43081682	0.70	2694	15.84	266	1.56	\$0.00	Jun-14
Unilever	35041910	34567140	0.41	61	1.82	50	0.79	\$0.00	Jun-14
Unifirst Corp	45056396	43480223	1.58	663	8.72	157.78	2.07	\$0.00	Jun-14
Wilmar Gaviion LLC	2323150	2484010	0.16	308	0.41	25.30	0.03	\$0.00	Jun-14
Zacky Kitchens	91441686	89785381	1.66	330	4.58	155	2.15	\$0.00	Jun-14
<b>TOTAL</b>			78.75		476.09		148.43	\$0.00	

## Customer Monthly Charges Report

Date Range: 5/1/2014 to 5/31/2014

Customer ID	Customer Name	Total Gallons	Gallon Charge	Trip Charge	Other Charges	Total Charges
10708	A & A Portables	37,470	\$365.33	\$1,326.00	\$0.00	\$1,691.33
78477	A & J Rentals	6,500	\$63.38	\$780.00	\$0.00	\$843.38
11153	AAA Septic & Rooter	78,200	\$762.45	\$1,794.00	\$0.00	\$2,556.45
11491	ABC Plumbing	0	\$0.00	\$0.00	\$0.00	\$0.00
8060	Cal State Rentals	0	\$0.00	\$0.00	\$0.00	\$0.00
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	6,321	\$61.63	\$156.00	\$0.00	\$217.63
4735	Parrish and Sons	168,400	\$1,641.90	\$3,978.00	\$0.00	\$5,619.90
75717	Premium Packing	2,700	\$26.33	\$234.00	\$0.00	\$260.33
6210	Richards Pumping	135,000	\$1,316.25	\$4,212.00	\$0.00	\$5,528.25
39444	Roto Rooter Sewer Service	206,954	\$2,017.80	\$4,836.00	\$0.00	\$6,853.80
74032	SRC Pumping Co	22,270	\$217.13	\$390.00	\$0.00	\$607.13
<b>Grand Totals</b>		<b>736,265</b>	<b>\$7,178.58</b>	<b>\$19,500.00</b>	<b>\$0.00</b>	<b>\$26,678.58</b>

**Approved By:** \_\_\_\_\_

**Septic Waste Haulers Monthly Charges**

Date Range: 5/01/2014 to 5/31/2014

Customer Name	Truck License	Tank Capacity	Total Trips	Total Gallons	Per 1000 Gal \$9.75	Per Trip \$78.00	Additional Charges
A&A Portables	5M18560	3235	0	0	\$0.00	\$0.00	\$0.00
A&A Portables	7X14631	1500	11	16,500	\$160.88	\$858.00	\$0.00
A&A Portables	8K42091	3495	6	20,970	\$204.46	\$468.00	\$0.00
A&J Rentals	8A44004	650	10	6,500	\$63.38	\$780.00	\$0.00
AAA Septic & Rooter	7S15871	3400	23	78,200	\$762.45	\$1,794.00	\$0.00
ABC Plumbing	7X61008	2400	0	0	\$0.00	\$0.00	\$0.00
Cal State Rentals	6H99890	920	0	0	\$0.00	\$0.00	\$0.00
Cal State Rentals	6L94675	908	0	0	\$0.00	\$0.00	\$0.00
Cal State Rentals	6A81536	2081	0	0	\$0.00	\$0.00	\$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	6X10233	3150	1	3,150	\$30.71	\$78.00	\$0.00
G&C Septic	8W07059	3171	1	3,171	\$30.92	\$78.00	\$0.00
Parrish and Sons	6K07305	2400	5	12,000	\$117.00	\$390.00	\$0.00
Parrish and Sons	7H09683	3400	46	156,400	\$1,524.90	\$3,588.00	\$0.00
Premium Packing	7L58449	900	3	2,700	\$26.33	\$234.00	\$0.00
Richards Pumping	6L78686	2500	54	135,000	\$1,316.25	\$4,212.00	\$0.00
Roto Rooter Sewer Services	7T36952	3382	47	158,954	\$1,549.80	\$3,666.00	\$0.00
Roto Rooter Sewer Services	5E84939	3200	15	48,000	\$468.00	\$1,170.00	\$0.00
SRC Pumping Co	4DE5675	4454	5	22,270	\$217.13	\$390.00	\$0.00
<b>Monthly Total Charges:</b>			<b>250</b>	<b>736,265</b>	<b>\$7,178.58</b>	<b>\$19,500.00</b>	<b>\$0.00</b>

**Grand Total: \$26,678.58**