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March 14, 2017

Mr. Robert Brownwood, P.E.
District Engineer
San Francisco District
California Department of Public Health
850 Marina Bay Parkway
Building P, 2nd Floor
Richmond, CA 94804

Mr. Bruce Wolf, Executive Officer
Regional Water Quality Control Board
San Francisco Bay Region
1515 Clay Street, Suite 1400
Oakland, CA 94612

Subject: 2016 Recycled Water Use Annual Report

Dear Mr. Brownwood and Mr. Wolf:

Enclosed please find the 2016 Annual Recycled Water Report of the seventh season for the San Ramon Valley Recycled Water Program, a joint project of the Dublin San Ramon Services District (DSRSD) and East Bay Municipal Utility District (EBMUD), together forming a Joint Power Authority called DERWA (DSRSD/EBMUD Recycled Water Authority).

Questions concerning this report may be directed by e-mail to Levi Fuller, fuller@dsrsd.com.

I certify under penalty of law that this document and all attachments are prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who managed the system, or those directly responsible for gathering the information, the information submitted, to the best of my knowledge and belief, is true, accurate, and complete.

I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Sincerely,

A handwritten signature in black ink, appearing to read "Levi Fuller".

LEVI FULLER
DSRSD Wastewater Treatment Plant Operations Supervisor

cc: Michael Tognolini, DERWA
Jill Duerig, Zone 7 Water Agency
Leonard Olive, City of Pleasanton
Dan McIntyre, DSRSD

Linda Hu, EBMUD
Ben Glickstein, EBMUD
An Bartlett, EBMUD
Jeff Carson, DSRSD
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Rhodora Biagtan, DSRSD
Matt Katen, Zone 7 Water Agency
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Sue Stephenson, DSRSD
DSRSD Operations Office Files



Dublin San Ramon
Services District

Water, wastewater, recycled water

SAN RAMON VALLEY RECYCLED WATER PROGRAM - 2016 IRRIGATION SEASON

Recycled Water Use Annual Report

Prepared by Dublin San Ramon Services District
for the San Ramon Valley Recycled Water Program

Introduction

This report satisfies the 2016 annual reporting requirements of the Regional Water Quality Control Board (RWQCB) Order 96-011 (the Order), General Water Reuse Requirements for Municipal Wastewater and Water Agencies. This report contains all of the requirements listed in the Order's Attachment C, Self-Monitoring Program.

To improve the reliability of the Tri-Valley's water supply, particularly in dry years, Dublin San Ramon Services District (DSRSD) and East Bay Municipal Utility District (EBMUD) created the DSRSD-EBMUD Recycled Water Authority (DERWA), which governs the San Ramon Valley Recycled Water Program and built the Jeffrey G. Hansen Water Recycling Plant and a backbone recycled water distribution system. The partnership also supplies recycled water to the City of Pleasanton.

DSRSD/DERWA Recycled Water Treatment Processes

The DERWA recycled water system began delivering water to DSRSD and EBMUD customers on February 1, 2006 using a 3.0 million gallon per day (MGD) capacity microfiltration and ultraviolet disinfection facility (MF-UV). Capacity was expanded with the addition of a second process: continuous backwash sand filtration followed by ultra violet disinfection (SF-UV). Five sand filters began producing recycled water on May 24, 2006. Today, the higher capacity SF-UV plant is used during summer when demand for recycled water is highest. The MF-UV plant is used in winter when demand is lower and also serves as a backup to the SF-UV plant to meet summer peak demand.

In 2016 DERWA added a sixth continuous backwash sand filter and began supplying recycled water to the City of Pleasanton, California. The city submits a separate report regarding its recycled water customers.

During 2016, the Tri-Valley area received approximately 22.67 inches of rainfall. DERWA facilities produced 3,459 acre-feet (1,127 million gallons) of recycled water, which either was delivered to



DERWA's recycled water plant is named the Jeffrey G. Hansen Water Recycling Plant for a former DSRSD director who was instrumental in bringing recycled water irrigation to the Tri-Valley.

DSRSD, EBMUD, or City of Pleasanton customers (based on the production plant's PSR1 flow meter) or used at the production facility. Below is a tabulation of recycled water used.

Recycled Water Used in 2016	Quantity (million gallons)
DSRSD and EBMUD customers	1005.44
City of Pleasanton customers	77.73
Contractor Load Out	22.65
Residential Load Out	11.36
Facility Processes	8.30
Facility Landscaping	1.56
Total	1127.065

2016 Season Highlights

January 2016: Mean temperature was 50.70 °F, with a maximum recorded temperature of 59.10 °F. The recorded rainfall during January was 4.38 inches. Recycled water production occurred on 12 days during the month and totaled 5.91 MG or 0.19 MGD, all produced using the MF-UV system. To facilitate routine maintenance of an EBMUD reservoir, 0.73 MG of potable water was added to the recycled water system at R100 from an EBMUD potable water reservoir.

February 2016: Mean temperature was 53.80 °F, with a maximum recorded temperature of 69.30 °F. February was drier than the previous month with only 0.97 inches of rainfall. Recycled water production occurred on 22 days during the month and totaled 14.9 MG or 0.51 MGD, all produced using the MF-UV system. To facilitate routine maintenance of an EBMUD reservoir, 4.34 MG of potable water was added to the recycled water system at R100 from an EBMUD potable water reservoir.

March 2016: Mean temperature increased to 55.20 °F, with a maximum recorded temperature of 66.80 °F. Rainfall totaled 5.81 inches. Recycled water production occurred on 21 days during the month and totaled 13.56 MG or 0.44 MGD, all produced using the MF-UV system. Again, to facilitate routine maintenance of an EBMUD reservoir, 0.27 MG of potable water was added to the recycled water system at R100 from an EBMUD potable water reservoir.

April 2016: Mean temperature was 59.20 °F, with a maximum recorded temperature of 71.70 °F. Rainfall totaled 1.76 inches. Recycled water production occurred on 29 days during the month and totaled 63.73 MG or 2.12 MGD, all produced using the SF-UV system.

May 2016: Mean temperature rose to 62.50 °F, with a maximum recorded temperature of 75.30 °F. Rainfall totaled 0.28 inches. Recycled water production occurred daily during the month and totaled 141.99 MG or 4.58 MDG. The MF-UV system was operated in tandem with the SF-UV system on eight days during the month.

June 2016: Mean temperature was 68.80 °F, with a maximum recorded temperature of 84.70 °F. Recycled water production occurred daily during the month and totaled 206.65 MG or 6.89 MDG. The MF-UV system was operated in tandem with the SF-UV system on 13 days during the month.

July 2016: Mean temperature increased to 70.20 °F, with a maximum recorded temperature of 88.50 °F. Recycled water production occurred daily during the month and totaled 233.47 MG or 7.53 MDG. The MF-UV system was operated in tandem with the SF-UV system on 12 days during the month. During July, the peak daily customer demand set a new all-time record of 8.623 MG.

August 2016: Mean temperature decreased to 68.10 °F, with a maximum recorded temperature of 87.10 °F. Recycled water production occurred daily during the month and totaled 220.62 MG or 7.12 MDG. The MF-UV system was operated in tandem with the SF-UV system on two days during the month.

September 2016: Mean temperature was 66.60 °F, with a maximum recorded temperature of 85.20 °F. Recycled water production occurred daily during the month and totaled 172.27 MG or 5.74 MDG. The MF-UV system was operated in tandem with the SF-UV system on three days during the month.

October 2016: Mean temperature was 61.20 °F, with a maximum recorded temperature of 74.60 °F. Rainfall totaled 4.91 inches, which decreased recycled water demands. The SF-UV system was turned off for the season on October 28. Recycled water produced dropped to 74.25 MG or 2.40 MGD.

November 2016: Mean temperature decreased to 54.60 °F, with a maximum recorded temperature of 68.00 °F. Rainfall totaled 1.18 inches and recycled water demands continued to decrease. Recycled water production occurred on 22 days during the month and totaled 21.73 MG or 0.72 MGD, all produced using the MF-UV system.

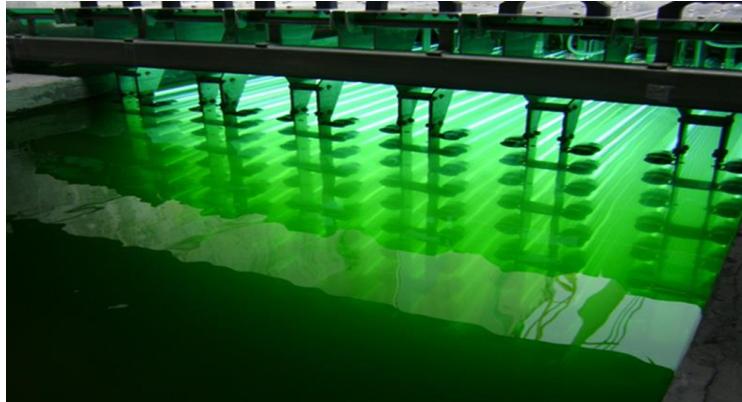
December 2016: Mean temperature was 46.20 °F, with a maximum recorded temperature of 58.20 °F. Rainfall totaled 3.38 inches. Recycled water demands continued to decrease. Recycled water production occurred on 17 days during the month and totaled only 9.78 MG or 0.32 MGD, all produced using the MF-UV system.

Recycled Water Monitoring

The Order requires DSRSD to perform recycled water monitoring on a monthly basis during periods where recycled water is being used. The sample locations vary, depending on which recycled water treatment facility is in operation. Samples are collected at either the SF-UV, MF-UV, or Pump Station R1 (PSR1). Collected samples are analyzed for total coliform, turbidity, dissolved oxygen, dissolved sulfides (if dissolved oxygen < 1 mg/l). Refer to Attachment B to see these results for the 2016 irrigation year. During the irrigation year, the minimum dissolved oxygen level in the recycled water produced was 1.49 mg/l, while the annual average was 8.28 mg/l. The conductivity of the recycled water produced ranged from 1137 to 1708 us/cm.

A total of 3,459 acre-feet (1,127 million gallons) of recycled water was produced and either delivered to DSRSD, EBMUD or City of Pleasanton customers (based on the production plant's PSR1 Flow meter) or was used at the production facility. During 2016 irrigation season the MF-UV plant operated on a total of 117 days (67 in 2015). The SF-UV plant operated on 203 days (257 in 2015). There were 36 operational days when both plants were in production. In total, recycled water was produced on 284 of the 365 calendar days in 2016.

The recycled water facilities are designed to automatically bypass or cease production when the system detects a low UV dosage (< 80 mj/cm^2 MF-UV; < 100 mj/cm^2 SF-UV). Based on an annual review of the UV dosage reports, it appears there were 21 events where either a low UV dosage condition existed or data was lost from the SCADA history. Those 21 events are listed below with an explanation of what was discovered when these events were reviewed in more detail.



Banks of ultraviolet lights disinfect the recycled water produced at DERWA facilities.

Date	Report Abnormality	Report Detailed Review	Days Bacti Result (MPN)
5/1/2016	Low UV Dose	355 minutes - UV Sensor Required Cleaning	<2
5/2/2016	Low UV Dose	UV Intensity was sufficient	<2
5/8/2016	Low UV Dose	SCADA indicates plant went into Bypass	<2
7/1/2016	Low UV Dose	SCADA indicates plant went into Bypass	<2
7/7/2016	Low UV Dose	SCADA indicates plant went into Bypass	<2
7/12/2016	No System Data	SCADA Server Switched - Lost Data	<2
7/13/2016	No System Data	SCADA Server Switched - Lost Data	<2
7/26-8/3/2016	No System Data	SCADA Control Switched (TP2 to TP1) - Lost Data	(<2 - 4)
8/1/2016	Low UV Dose	Maintenance work on UVI sensor	<2
8/2/2016	Low UV Dose	#6 SF added to SCADA System - Lost Data	<2
8/3/2016	Low UV Dose	Maintenance work on UVI sensor	<2
8/4/2016	Low UV Dose	SCADA Historian Malfunction - Lost Data	<2
9/12/2016	Low UV Dose	SCADA indicates plant went into Bypass	<2
10/8/2016	Low UV Dose	SCADA indicates plant went into Bypass	<2
10/9/2016	Low UV Dose	SCADA indicates plant went into Bypass	<2

There were no exceedances of coliform or turbidity during the 2016 irrigation season.

Progress and Results

Expansion

DSRSD continues to expand its recycled water service to eastern Dublin and the Dougherty Valley area of San Ramon. Developers are required to install recycled water mains within their developments and connect irrigation services for streetscapes, parks, schools, commercial areas, and multi-family residential areas.

DSRSD began extending recycled water distribution mains into established areas of central Dublin in 2012. In response to the 2014-2015 drought, the District expedited an extension into western Dublin to serve existing schools, parks, streetscapes, and semi-public areas. The project was completed in January 2016. The District installed additional distribution pipelines in May 2015 to serve existing institutional facilities on Alameda County properties in Dublin. These facilities include the Santa Rita Jail, county sheriff offices, county emergency services, the animal shelter, and California Highway Patrol facility. The central and western Dublin projects permanently reduce potable water demand by approximately 347 acre-feet annually. A state Proposition 84 Emergency Drought Grant provided partial funding for these projects.



Developers install purple pipes for recycled water irrigation as new developments are built.

Special Studies and Projects

Expansion of Recycled Water Treatment Facility and Pump Station

DERWA is expanding the sand filtration and ultraviolet (UV) disinfection facilities to meet increasing recycled water demand. In Phase 1, a sixth sand filter was added to meet additional demand for customers of the City of Pleasanton, which is in the process of installing recycled water distribution mains to convert sites such as parks, schools, and business parks to recycled water. The sixth filter, which came online in May 2016, increased sand filtration reliable and sustainable capacity from 6.6 to 7.9.2 MGD.

Phase 2 will expand the facility's peak production capacity to 16.2 MGD by adding high-rate ballasted flocculation basins upstream of the existing tertiary filters. This will improve the quality of the filter feed, allowing the sand filters to operate at a higher loading rate. In addition, the project will add influent pumps, UV modules, and recycled water distribution pumps. The total estimated cost for the expansion is \$18.2 million. The District is currently seeking \$6 million in Title XVI federal grant funds for this project and additional state funds. Construction began in January 2017 and is scheduled to last 18 months.

Studying the Potential for Potable Reuse in the Tri-Valley

In 2014, Tri-Valley water agencies and cities (DSRSD, Zone 7 Water Agency, Pleasanton, Livermore, and Cal Water Livermore) formed the Tri-Valley Water Policy Roundtable. Board and council members and executive managers from each agency met several times to strategize policy directions that will improve water supply reliability. Alternatives include potable reuse. The group decided to conduct a joint potable reuse feasibility study for the region. The study began in October 2016 and is expected to be completed in December 2017.

Influent Supply

Current recycled water projections show that recycled water demands may exceed the available supply of wastewater influent during peak demand periods. DSRSD is currently working with neighboring agencies to seek additional supply sources. Meanwhile, the District plans to limit the expansion of its recycled water distribution system to the established areas of Dublin.

Residential Recycled Water Fill Stations

Program Background

In 2014, the District received approval from the State Water Resources Control Board and the Regional Water Quality Control Board to open a fill station to dispense free tertiary treated recycled water to residential customers. The District wanted to help residents save valuable landscaping while they complied with mandatory potable water restrictions during severe drought.

The District anticipated some interest in the program but did not expect the huge response it received. Prior to opening day, June 12, 2014, the program had 50 potential users on a waiting list. By the end of 2014, the program had registered 495 users and distributed 2.3 million gallons of recycled water. By the end of 2015, the program had grown to 3,600 registered users, who had taken home 28 million gallons of recycled water in buckets, drums, and totes. With the easing of potable water restrictions in 2016, fill station use dropped by 50 percent as compared to 2015 and registered users increased to 3,964.

Prior to obtaining recycled water, customers must complete and submit a Recycled Water Use Agreement Form, receive training, obtain a wallet card with a bar code sticker, and install recycled water



A residential fill station user shows his wallet card to the attendant before filling the tote in his truck with recycled water.

stickers on all containers. Customers must show the wallet card to the attendants at each pickup. The attendants scan the bar code and enter the amount of recycled water the customer will collect.

Customers may collect a maximum of 300 gallons and a minimum of 5 gallons per pickup; however they may make multiple pickups in a day.

The fill station program is open to all residential customers throughout the Bay Area. Fill station customers are primarily from the following cities:

- Pleasanton: 46 percent
- Dublin: 18 percent
- San Ramon: 13 percent
- Livermore: 10 percent
- Danville: 4 percent
- Castro Valley: 3 percent
- Other Bay Area cities (50): 6 percent

Fill Station Size and Locations

The main fill station is located at the recycled water treatment facility in Pleasanton, California. Initially the fill station had three back-in stations. Due to high public demand, the District expanded to 28 back-in stations and five drive-through stations for customers with trailers. During the peak months, three attendants were on duty and traffic ranged from 800 to 1,000 customer trips a day. The fill station remained open year around.

On June 24, 2015, the District opened a second fill station at the City of Dublin's Public Safety Complex located on Dublin Boulevard. Eight back-in fill stations were installed and additional attendants were hired. Due to limited space, customers with trailers were directed to continue using the main fill station in Pleasanton. The Dublin station closed during the winter when demand for irrigation water is low.

The Dublin station re-opened on June 1, 2016 and had between 150 to 250 customer trips per day during the peak summer months. The Dublin station closed permanently on September 30, 2016. The Pleasanton fill station remained open a few days a week until December 28, 2016. To ensure public safety, the District has decided to close the Pleasanton fill station during a large construction project at the treatment plant starting in 2017.

Ensuring Compliance with Requirements

Due to the program's popularity, the amount of recycled water being collected, and a few reports received from the public, the District decided to take further action to ensure proper use of recycled water. The following efforts remind users of the program's do's and don'ts:

1. Posted signs at the fill stations that state: "Do not connect recycled water equipment to buried irrigation systems. Violators are subject to fines up to \$1,000 and loss of privileges."
2. Conducted site inspections to ensure residential fill station customers were using recycled water appropriately and had not set up illegal connections. Staff have experience with cross connection inspections and are certified by California-Nevada AWWA as both Backflow Prevention Testers and Cross Connection Control Specialists, which is a requirement for this project.

Using data gathered from bar code scanners, staff ranked fill station customers by consumption. The highest consumers were selected for inspections, as well as sites that had been reported as having onsite storage containers. Forty-two inspections were conducted in the District's service area. No cross connections were found during this reporting period.

Since the fill stations are open to all residents in the Bay Area, some users are outside the District's jurisdictional authority. Staff has collaborated with other water agencies to ensure compliance with public health and safety regulations. DSRSD has provided each water agency with a list of fill station users in its service area and has forwarded any potential compliance issues to the appropriate agency.

Results

The community embraced this program. Many residential customers have realized recycled water is a valuable resource. The inspector routinely heard phrases like these from fill station users: "it is therapeutic," "habit forming," "plants love it," "my grass has never been greener," "love the program." The residential fill station program has significantly improved customers' opinions of and comfort level with recycled water.



Signs remind fill station customers not to connect recycled water equipment to buried irrigation systems.

Commercial Fill Station and Hydrants

DSRSD's commercial fill station is located at the recycled water treatment facility and has been operational since 2007. Installation of recycled water fire hydrants in Dublin and Dougherty Valley began in 2008. The 2014-2015 severe drought and mandatory water restrictions caused a significant increase in commercial demand for recycled water. Fill station and temporary hydrant users (aka temporary construction meter users) are required to obtain a recycled water use permit from the District. The District currently has 74 permitted commercial fill station users and 75 hydrant users. The commercial fill station program distributed 15.0 MG and commercial construction meters distributed 24.24 MG of recycled water in 2016.

In 2014, DSRSD upgraded the commercial fill station to a flow rate of 1,000 gallons per minute. Typical loads are between 2,000 to 4,000 gallons. Commercial users are given a personal identification number so they can access the fill station 24 hours a day, seven days a week.

The District has 17 recycled water hydrants located throughout central and eastern Dublin and Dougherty Valley. Customers are directed to use recycled water instead of potable water for acceptable uses listed in Title 22, such as dust control, soil compaction, street sweeping, surface washing, and landscape irrigation.

Delivery of Recycled Water

In 2015, commercial haulers contacted DSRSD seeking permission to deliver recycled water to residential and commercial customers for use on landscaping. After conversations with regulatory agencies, District staff decided to allow commercial haulers to haul recycled water to residential and commercial properties; however they must apply it directly onto the customer's landscaping. Haulers are not allowed to place recycled water into storage tanks.

Before a hauler can apply recycled water at a customer's site, the customer must first complete the DSRSD Residential Fill Station Use Agreement, receive training from District staff, and obtain a wallet card to ensure they are fully aware of the use regulations. Commercial haulers applying recycled water onto residential and commercial properties are permitted under the District's commercial hauler program. The [Water Reuse Permit](#) has been updated to reflect the program changes and is available online at <http://www.dsrsd.com/do-business-with-us/recycled-water-use/recycled-water-construction-meters-hydrants-and-commercial-fill-station>.



The Commercial Recycled Water Fill Station can accommodate tanker trucks up to 4,000 gallons of capacity.

User Compliance Program Review and Results

Compliance Program Background

Ordinance 301 and the District's Recycled Water Use Guidelines outline the requirements and recommendations customers are to follow in order to achieve compliance with Title 22 and Order 96-011. After expanding recycled water distribution into established areas of Central and Eastern Dublin, the District revised its Recycled Water Use Guidelines in February 2015 to address retrofit sites. The District's current Recycled Water Use Guidelines are available online at <http://www.dsrsd.com/do-business-with-us/recycled-water-use/guidelines-and-requirements>.

At this time, the District permits the following uses for recycled water:

Landscape irrigation	Dust control and surface cleaning
Toilet and urinal flushing	Industrial uses

Recycled Water Supervisor Training

The District conducts recycled water site supervisor trainings annually. Over 50 people attended the 2016 training. The training covers recycled water use regulations, cross connection control, recycled water quality control, and recycled water production, and is followed by a recycled water treatment plant tour.

Recycled Water Customers Compliance Summary

DSRSD currently has 299 permanent recycled water irrigation sites and 3,964 customers authorized to use the residential fill station. Additionally, the District has 150 industrial users using recycled water for soil compaction, dust control, landscape irrigation, or surface washing. In 2016 (calendar year), the District's recycled water users consumed over 815 million gallons (2,501 AF) of recycled water. Refer to Attachment D, Table 1, to view a tabular summary of recycled water use by billing period by each user, and Table 2 to view a summary of recycled water usage by application use type.



DSRSD staff perform periodic inspections to ensure site supervisors are complying with regulations governing recycled water use.

All recycled water customers are required to obtain a license/permit from the District in order to use recycled water. In 2016, 25 new and retrofit sites met the site requirements and were authorized to use recycled water for landscape irrigation. To view a list of the new authorized recycled water users, refer to Table 3 in Attachment E.

Irrigation users are required to inspect their systems and correct any deficiencies. Therefore, the District requires recycled water customers to submit semi-annual self-monitoring reports. The data collected in these reports exceeds the Order's annual self-monitoring requirements. To view the data, refer to Table 4 in Attachment E.

District staff perform periodic inspections of recycled water use sites to ensure compliance with Division of Drinking Water reuse criteria and the Order. Table 5 in Attachment E provides a summary of violations found during site inspections, corrective actions taken, and any change to or revocation of a user's Recycled Water Use License. During this reporting period no Recycled Water Use Licenses or use authorization were revoked.

Attachments

The following data summarizes the 2016 recycled water irrigation season:

- Description of Recycled Water Treatment Facilities (Attachment A)
- Dissolved Oxygen, Coliform, and Conductivity analysis (Attachment B)
- Flow and Turbidity Data – MF-UV Plant (Attachment C)
- Flow and Turbidity Data – SF-UV Plant (Attachment D)
- Irrigation Site and Compliance Records for DSRSD (Attachment E)
- Irrigation Site and Compliance Records for EBMUD (Attachment F)
- Contact Information (Attachment G)

Attachment A

Description of Recycled Water Facilities

SF-UV Facility

Sand filtration-ultraviolet disinfection (SF-UV) treatment processes reduce turbidity, remove suspended solids, and inactivate pathogens. The DSRSD SF-UV tertiary treatment plant has a reliable, sustainable capacity of 7.92 million gallons per day (MGD). Fully treated and chlorinated secondary effluent from the wastewater treatment plant flows to a diurnal storage basin. A portion of that secondary effluent is pumped to the SF-UV facilities to produce recycled water. The remaining secondary effluent is pumped to the Livermore Amador Valley Water Management (LAVWMA) facility and then to East Bay Dischargers Authority (EBDA) system for discharge into San Francisco Bay through a deep water outfall.



Access plates hide six sand filters where flocculated water flows upward through 80 inches of continuously backwashed sand.

SF-UV treatment processes are as follows:

- **Screening** – Small material and plastics remaining in the fully treated secondary effluent are removed by a 2mm band screen.
- **Coagulation** – Coagulant chemical(s) are added to the tertiary influent and mixed into the flow using high-energy mechanical mixers; this causes fine particulates in the water to coagulate and begin to form into small particles.
- **Flocculation** – Coagulated water is gently mixed in two flocculation tanks using low-energy mechanical mixers to promote agglomeration of small particles into larger particles that can be easily filtered from the water.
- **Filtration** – To remove the particles, flocculated water flows gently up and through an 80-inch sand bed in one of six, up-flow, continuously backwashed, granular sand filters.
- **UV Disinfection** – Filtered water flows through two parallel UV channels for disinfection and inactivation of viruses and bacteria. The SF-UV system is a Xylem-Wedeco system, model TAK55 M 10-6(8)/143 x 5i2(3)W. Each channel has five banks of UV bulbs. Each bank has 120 bulbs.

MF-UV Facility

Microfiltration-ultraviolet disinfection (MF-UV) treatment processes reduce turbidity, remove suspended solids, and inactivate pathogens. This DSRSD MF-UV tertiary treatment plant is designed for a treatment capacity of 2.5 million gallons per day (MGD). MF-UV treatment processes filter all particles larger than 0.2 microns from the secondary effluent. A portion of unchlorinated secondary effluent is conveyed from just upstream of the wastewater plant's chlorine contact tank by MF transfer pumps to the microfiltration influent pump wet well. The remaining final secondary effluent is pumped to the Livermore Amador Valley Water Management (LAVWMA) and East Bay Dischargers Authority (EBDA) systems for discharge into San Francisco Bay through a deep water outfall.



Five microfiltration units remove all particles greater than 0.2 microns.

MF-UV treatment processes are as follows:

- **Screening** – A 500-micron screen removes small materials and plastics from the final secondary effluent.
- **Filtration** – The microfilters remove all particles greater than 0.2 microns. The system consists of five filtration units with an instantaneous capacity of 0.75 MGD and a net capacity of 0.50 MGD. Each membrane cartridge contains 18,000 hollow fibers membranes called lumens (0.5 mm diameter with a nominal pore size of 0.2 micrometers). Water passes from outside the membranes through the pores and into the lumens and exits as filtrate. The system feed pressure is typically between 25 and 35 psi.
- **UV Disinfection** – Filtered water flows through a UV channel for disinfection and inactivation of viruses and bacteria. The MF-UV system consists of 10 Ondeo Degrement 40VLS UV modules. Each module has five rows of eight lamps, for a total of 40 lamps per module.

The MF-UV plant is operated when the demand for recycled water is less than 2.2 MGD. If the demand is greater than 2.2 MGD, the high capacity SF-UV plant is turned on. After treatment at either facility, the filtered and disinfected water is conveyed off site to customers through the DERWA recycled water distribution system.

Attachment B

Monthly Dissolved Oxygen, Coliform, and Conductivity Summary

DUBLIN SAN RAMON SERVICES DISTRICT

Recycled Water System

Laboratory Results

DUBLIN SAN RAMON SERVICES DISTRICT

Recycled Water System

Laboratory Results

DUBLIN SAN RAMON SERVICES DISTRICT
Recycled Water System

Laboratory Results

Sample Date	MF/UV			SF/UV			PS1		
	Diss. O ₂	Total coliform	Conductivity	Diss. O ₂	Total coliform	Conductivity	Diss. O ₂	Total Coliform	Conductivity
Mar. 16	mg/L	MPN	us/cm	mg/L	MPN	us/cm	mg/L	MPN	us/cm
1	5.33	< 2	1468						
2									
3	6.22	< 2	1466						
4	6.69	2	1403						
5									
6									
7									
8									
9									
10	6.63	< 2	1531						
11	2.92	< 2	1406						
12									
13									
14									
15	2.35	< 2	1512						
16									
17	2.72	< 2	1556						
18	2.52	< 2	1425						
19									
20									
21									
22	2.2	< 2	1516						
23									
24	2.20	< 2	1462						
25	2.15	< 2	1449						
26	1.88	< 2	1474						
27									
28									
29	1.60	< 2	1441						
30	2.58	< 2	1439						
31	1.47	< 2	1421	8.01	< 2	1483			

DUBLIN SAN RAMON SERVICES DISTRICT
Recycled Water System

Laboratory Results

Sample Date	MF/UV			SF/UV			PS1		
	Diss. O ₂ mg/L	Total coliform MPN	Conductivity us/cm	Diss. O ₂ mg/L	Total coliform MPN	Conductivity us/cm	Diss. O ₂ mg/L	Total Coliform MPN	Conductivity us/cm
Apr.16									
1				8.28	< 2	1531			
2				8.03	< 2	1506			
3				7.52	< 2	1472			
4				7.89	< 2	1487			
5				7.92	< 2	1555			
6				7.94	< 2	1551			
7				8.35	< 2	1525			
8				7.95	< 2	1574			
9									
10									
11				7.6	< 2	1433			
12				7.91	< 2	1429			
13				7.96	< 2	1444			
14				7.79	< 2	1490			
15				8.03	< 2	1488			
16									
17				7.58	< 2	1504			
18				7.31	< 2	1461			
19				7.52	2	1518			
20				7.55	< 2	1481			
21									
22				7.96	< 2	1467			
23				7.68	< 2	1450			
24									
25				7.87	< 2	1459			
26				7.72	< 2	1483			
27									
28				7.54	< 2	1508			
29				7.54	< 2	1440			
30				7.51	< 2	1488			

DUBLIN SAN RAMON SERVICES DISTRICT
Recycled Water System

Laboratory Results

Sample Date	MF/UV			SF/UV			PS1		
	Diss. O ₂	Total coliform	Conductivity	Diss. O ₂	Total coliform	Conductivity	Diss. O ₂	Total Coliform	Conductivity
May. 16	mg/L	MPN	us/cm	mg/L	MPN	us/cm	mg/L	MPN	us/cm
1				6.81	< 2	1469			
2				7.65	< 2	1442			
3				7.7	4	1453			
4				7.31	< 2	1450			
5				7.47	< 2	1414			
6				7.69	< 2	1391			
7				7.94	< 2	1466			
8				7.54	< 2	1472			
9				7.65	< 2	1477			
10				7.54	4	1464			
11				7.57	8	1411			
12				7.39	2	1403			
13				7.48	< 2	1417			
14				6.94	2	1447			
15									
16				7.49	4	1389			
17							7.35	2	1470
18							7.52	8	1463
19							7.75	8	1418
20				7.52	< 2	1429			
21				7.31	< 2	1440			
22				7.16	< 2	1406			
23							8.01	< 2	1430
24							7.56	< 2	1467
25							7.77	< 2	1502
26							7.28	< 2	1460
27							7.47	< 2	1498
28							6.61	< 2	1414
29				6.87	< 2	1431			
30				7.13	< 2	1418			
31				7.25	< 2	1381			

DUBLIN SAN RAMON SERVICES DISTRICT
Recycled Water System

Laboratory Results

Sample Date	MF/UV			SF/UV			PS1		
	Diss. O ₂	Total coliform	Conductivity	Diss. O ₂	Total coliform	Conductivity	Diss. O ₂	Total coliform	Conductivity
	mg/L	MPN	us/cm	mg/L	MPN	us/cm	mg/L	MPN	us/cm
Jun.16									
1				7.08	< 2	1414			
2				7.36	< 2	1472			
3				7.53	< 2	1513			
4				7.45	2	1527			
5				7.45	8	1503			
6				7.22	4	1442			
7				7.42	< 2	1461			
8				7.30	< 2	1415			
9							7.32	< 2	1397
10				7.23	< 2	1398			
11				7.20	< 2	1417			
12				7.08	< 2	1406			
13				7.10	< 2	1345			
14				6.99	< 2	1407			
15				7.26	< 2	1359			
16				7.02	< 2	1328			
17				7.15	< 2	1333			
18				7.23	< 2	1348			
19				6.81	< 2	1340			
20				6.73	< 2	1345			
21							7.40	< 2	1378
22				6.92	< 2	1375			
23				7.04	< 2	1324			
24							6.89	2	1286
25							7.65	< 2	1370
26							7.27	< 2	1335
27							6.77	< 2	1383
28							7.34	2	1350
29							7.31	< 2	1329
30				6.55	< 2	1335			

DUBLIN SAN RAMON SERVICES DISTRICT

Recycled Water System

Laboratory Results

Sample Date	MF/UV			SF/UV			PS1		
	Diss. O ₂	Total coliform	Conductivity	Diss. O ₂	Total coliform	Conductivity	Diss. O ₂	Total coliform	Conductivity
Jul. 16	mg/L	MPN	us/cm	mg/L	MPN	us/cm	mg/L	MPN	us/cm
1							7.24	< 2	1360
2							6.73	< 2	1385
3				7.00	< 2	1312			
4				7.01	< 2	1353			
5				6.70	< 2	1340			
6				6.92	< 2	1291			
7				6.93	< 2	1314			
8				6.84	< 2	1260			
9				7.09	2	1281			
10				7.16	< 2	1304			
11				6.81	< 2	1325			
12				6.80	< 2	1343			
13				6.82	< 2	1292			
14				7.09	< 2	1323			
15				7.31	< 2	1295			
16				7.10	< 2	1355			
17				7.22	< 2	1289			
18				6.77	< 2	1259			
19				7.11	< 2	1281			
20							7.40	< 2	1256
21							7.56	< 2	1273
22				7.19	< 2	1297			
23				7.09	2	1369			
24				7.00	4	1349			
25				7.10	2	1270			
26							6.94	< 2	1354
27							7.40	4	1285
28							7.24	4	1292
29							7.08	4	1324
30				6.63	< 2	1353			
31				6.94	< 2	1315			

DUBLIN SAN RAMON SERVICES DISTRICT

Recycled Water System

Laboratory Results

Sample Date	MF/UV			SF/UV			PS1		
	Diss. O ₂	Total coliform	Conductivity	Diss. O ₂	Total coliform	Conductivity	Diss. O ₂	Total coliform	Conductivity
Aug. 16	mg/L	MPN	us/cm	mg/L	MPN	us/cm	mg/L	MPN	us/cm
1				6.91	< 2	1262			
2				6.83	< 2	1280			
3				7.11	< 2	1272			
4				7.04	< 2	1268			
5				7.13	< 2	1258			
6				7.18	< 2	1262			
7				7.16	< 2	1250			
8				7.24	< 2	1222			
9				6.93	< 2	1255			
10				6.88	< 2	1271			
11				6.82	< 2	1298			
12				6.56	< 2	1256			
13				7.79	< 2	1289			
14				6.58	< 2	1278			
15				6.40	< 2	1253			
16				6.89	< 2	1295			
17				6.86	< 2	1300			
18				6.67	2	1260			
19				6.90	< 2	1299			
20				6.77	< 2	1359			
21				6.74	< 2	1325			
22				6.8	< 2	1277			
23				6.62	< 2	1345			
24				6.65	< 2	1308			
25				7.00	< 2	1318			
26				6.97	< 2	1271			
27				7.06	< 2	1310			
28				6.82	< 2	1268			
29				7.00	< 2	1264			
30				6.59	< 2	1306			
31				6.58	< 2	1295			

DUBLIN SAN RAMON SERVICES DISTRICT
Recycled Water System

Laboratory Results

Sample Date	MF/UV			SF/UV			PS1		
	Diss. O ₂	Total coliform	Conductivity	Diss. O ₂	Total coliform	Conductivity	Diss. O ₂	Total coliform	Conductivity
Sept. 16	mg/L	MPN	us/cm	mg/L	MPN	us/cm	mg/L	MPN	us/cm
1				6.74	< 2	1293			
2				6.90	< 2	1297			
3				6.68	< 2	1327			
4				6.40	< 2	1312			
5				6.92	< 2	1346			
6				7.07	< 2	1317			
7				6.71	< 2	1349			
8				7.10	< 2	1349			
9				7.17	< 2	1360			
10				7.49	< 2	1398			
11				7.01	< 2	1339			
12				6.77	< 2	1340			
13							8.07	< 2	1373
14				7.40	< 2	1400			
15				7.62	< 2	1372			
16				7.60	< 2	1381			
17				7.40	< 2	1423			
18				7.72	< 2	1415			
19				7.25	< 2	1357			
20				6.09	< 2	1406			
21				7.02	< 2	1473			
22				7.71	< 2	1452			
23				7.21	< 2	1455			
24				7.39	< 2	1480			
25				6.49	< 2	1418			
26				7.61	< 2	1453			
27				7.95	< 2	1537			
28				7.35	< 2	1501			
29				7.09	< 2	1463			
30				7.55	< 2	1469			

DUBLIN SAN RAMON SERVICES DISTRICT
Recycled Water System

Laboratory Results

Sample Date	MF/UV			SF/UV			PS1		
	Diss. O ₂	Total coliform	Conductivity	Diss. O ₂	Total coliform	Conductivity	Diss. O ₂	Total coliform	Conductivity
Oct. 16	mg/L	MPN	us/cm	mg/L	MPN	us/cm	mg/L	MPN	us/cm
1				7.67	< 2	1489			
2				7.78	< 2	1462			
3				6.93	< 2	1440			
4				6.89	< 2	1538			
5				7.06	< 2	1480			
6				7.16	< 2	1498			
7				7.17	< 2	1509			
8				6.99	< 2	1489			
9				6.92	< 2	1475			
10				6.92	< 2	1476			
11				6.85	< 2	1472			
12				6.91	< 2	1505			
13				6.27	< 2	1503			
14				7.22	< 2	1524			
15									
16									
17				6.06	< 2	1284			
18				7.02	< 2	1445			
19									
20				7.12	< 2	1508			
21				7.22	4	1477			
22				7.06	< 2	1460			
23				6.77	< 2	1496			
24				7.01	< 2	1479			
25				7.20	< 2	1485			
26									
27									
28									
29									
30									
31	5.81	< 2	1448						

DUBLIN SAN RAMON SERVICES DISTRICT
Recycled Water System

Laboratory Results

Sample Date	MF/UV			SF/UV			PS1		
	Diss. O ₂	Total coliform	Conductivity	Diss. O ₂	Total coliform	Conductivity	Diss. O ₂	Total Coliform	Conductivity
Nov. 16	mg/L	MPN	us/cm	mg/L	MPN	us/cm	mg/L	MPN	us/cm
1	5.78	< 2	1560						
2	4.21	< 2	1421						
3	3.31	< 2	1417						
4									
5									
6									
7	1.52	< 2	1529						
8	1.63	4	1497						
9	1.70	< 2	1480						
10	1.84	< 2	1458						
11	1.55	< 2	1448						
12	2.10	< 2	1460						
13									
14	1.52	< 2	1464						
15	1.77	< 2	1392						
16	1.66	< 2	1409						
17	2.09	< 2	1425						
18	1.49	< 2	1360						
19									
20									
21									
22									
23									
24	2.01	< 2	1482						
25	6.05	< 2	1373						
26									
27	6.26	< 2	1397						
28									
29									
30	3.31	< 2	1389						

DUBLIN SAN RAMON SERVICES DISTRICT

Recycled Water System

Laboratory Results

Attachment C

Flow and Turbidity Data

Microfiltration-Ultraviolet Disinfection Facility

DUBLIN SAN RAMON SERVICES DISTRICT
Recycled Water System

Operating Data - Daily Averages

Date	Recycled Water Produced (MG)	Filtrate Turbidity (Average NTU)	UV Transmittance of Recycled Water Produced (Average %)	UV Dosage (Average mW/cm ²)
January 1, 2016	0.47	0.13	70.0	379
January 2, 2016	OFFLINE	OFFLINE	OFFLINE	OFFLINE
January 3, 2016	OFFLINE	OFFLINE	OFFLINE	OFFLINE
January 4, 2016	0.28	0.15	70.8	419
January 5, 2016	0.45	0.14	70.1	403
January 6, 2016	OFFLINE	OFFLINE	OFFLINE	OFFLINE
January 7, 2016	OFFLINE	OFFLINE	OFFLINE	OFFLINE
January 8, 2016	OFFLINE	OFFLINE	OFFLINE	OFFLINE
January 9, 2016	OFFLINE	OFFLINE	OFFLINE	OFFLINE
January 10, 2016	0.61	0.12	67.7	374
January 11, 2016	0.77	0.12	68.6	381
January 12, 2016	OFFLINE	OFFLINE	OFFLINE	OFFLINE
January 13, 2016	OFFLINE	OFFLINE	OFFLINE	OFFLINE
January 14, 2016	0.51	0.13	67.7	381
January 15, 2016	1.43	0.08	68.8	341
January 16, 2016	0.55	0.08	68.9	344
January 17, 2016	OFFLINE	OFFLINE	OFFLINE	OFFLINE
January 18, 2016	OFFLINE	OFFLINE	OFFLINE	OFFLINE
January 19, 2016	OFFLINE	OFFLINE	OFFLINE	OFFLINE
January 20, 2016	OFFLINE	OFFLINE	OFFLINE	OFFLINE
January 21, 2016	OFFLINE	OFFLINE	OFFLINE	OFFLINE
January 22, 2016	0.69	0.12	70.7	397
January 23, 2016	0.44	0.12	71.4	403
January 24, 2016	OFFLINE	OFFLINE	OFFLINE	OFFLINE
January 25, 2016	OFFLINE	OFFLINE	OFFLINE	OFFLINE
January 26, 2016	OFFLINE	OFFLINE	OFFLINE	OFFLINE
January 27, 2016	OFFLINE	OFFLINE	OFFLINE	OFFLINE
January 28, 2016	OFFLINE	OFFLINE	OFFLINE	OFFLINE
January 29, 2016	OFFLINE	OFFLINE	OFFLINE	OFFLINE
January 30, 2016	OFFLINE	OFFLINE	OFFLINE	OFFLINE
January 31, 2016	OFFLINE	OFFLINE	OFFLINE	OFFLINE

Monthly Totals	MG	NTU	Percent	mW/cm ²
MAX	1.43	0.15	71.4	419
MIN	0.28	0.08	67.7	341
AVG	0.62	0.12	69.5	382
Total	6.20			

Permit Values

Max = 0.2

Min = 65

Min = 80

DUBLIN SAN RAMON SERVICES DISTRICT
Recycled Water System

Operating Data - Daily Averages

Date	Recycled Water Produced (MG)	Filtrate Turbidity (Average NTU)	UV Transmittance of Recycled Water Produced (Average %)	UV Dosage (Average mW/cm2)
February 1, 2016	OFFLINE	OFFLINE	OFFLINE	OFFLINE
February 2, 2016	OFFLINE	OFFLINE	OFFLINE	OFFLINE
February 3, 2016	0.50	0.12	71.7	363
February 4, 2016	OFFLINE	OFFLINE	OFFLINE	OFFLINE
February 5, 2016	OFFLINE	OFFLINE	OFFLINE	OFFLINE
February 6, 2016	OFFLINE	OFFLINE	OFFLINE	OFFLINE
February 7, 2016	OFFLINE	OFFLINE	OFFLINE	OFFLINE
February 8, 2016	OFFLINE	OFFLINE	OFFLINE	OFFLINE
February 9, 2016	0.85	0.11	71.3	372
February 10, 2016	1.43	0.10	69.6	347
February 11, 2016	0.68	0.11	69.0	331
February 12, 2016	OFFLINE	OFFLINE	OFFLINE	OFFLINE
February 13, 2016	OFFLINE	OFFLINE	OFFLINE	OFFLINE
February 14, 2016	0.83	0.11	71.3	389
February 15, 2016	1.33	0.12	69.5	371
February 16, 2016	1.25	0.14	68.1	357
February 17, 2016	0.50	0.15	68.1	339
February 18, 2016	OFFLINE	OFFLINE	OFFLINE	OFFLINE
February 19, 2016	OFFLINE	OFFLINE	OFFLINE	OFFLINE
February 20, 2016	OFFLINE	OFFLINE	OFFLINE	OFFLINE
February 21, 2016	OFFLINE	OFFLINE	OFFLINE	OFFLINE
February 22, 2016	OFFLINE	OFFLINE	OFFLINE	OFFLINE
February 23, 2016	OFFLINE	OFFLINE	OFFLINE	OFFLINE
February 24, 2016	OFFLINE	OFFLINE	OFFLINE	OFFLINE
February 25, 2016	0.89	0.14	67.9	340
February 26, 2016	1.56	0.09	72.4	399
February 27, 2016	0.38	0.12	72.9	454
February 28, 2016	OFFLINE	OFFLINE	OFFLINE	OFFLINE
February 29, 2016	0.81	0.09	72.0	362

Monthly Totals	MG	NTU	Percent	mW/cm2
MAX	1.56	0.15	72.9	454
MIN	0.38	0.09	67.9	331
AVG	0.92	0.12	70.3	369
Total	11.00			

Permit Values Max = 0.2 Min = 65 Min = 80

DUBLIN SAN RAMON SERVICES DISTRICT
Recycled Water System

Operating Data - Daily Averages

Date	Recycled Water Produced (MG)	Filtrate Turbidity (Average NTU)	UV Transmittance of Recycled Water Produced (Average %)	UV Dosage (Average mW/cm2)
March 1, 2016	1.49	0.09	73.7	405
March 2, 2016	0.42	0.10	73.5	439
March 3, 2016	0.58	0.10	72.8	430
March 4, 2016	0.93	0.09	72.3	423
March 5, 2016	OFFLINE	OFFLINE	OFFLINE	OFFLINE
March 6, 2016	OFFLINE	OFFLINE	OFFLINE	OFFLINE
March 7, 2016	OFFLINE	OFFLINE	OFFLINE	OFFLINE
March 8, 2016	OFFLINE	OFFLINE	OFFLINE	OFFLINE
March 9, 2016	OFFLINE	OFFLINE	OFFLINE	OFFLINE
March 10, 2016	0.54	0.15	66.6	351
March 11, 2016	1.00	0.12	68.2	380
March 12, 2016	0.43	0.13	67.4	371
March 13, 2016	OFFLINE	OFFLINE	OFFLINE	OFFLINE
March 14, 2016	OFFLINE	OFFLINE	OFFLINE	OFFLINE
March 15, 2016	0.45	0.10	69.7	396
March 16, 2016	0.41	0.11	71.4	419
March 17, 2016	0.36	0.10	71.0	384
March 18, 2016	0.85	0.09	71.4	379
March 19, 2016	0.34	0.11	69.9	368
March 20, 2016	OFFLINE	OFFLINE	OFFLINE	OFFLINE
March 21, 2016	OFFLINE	OFFLINE	OFFLINE	OFFLINE
March 22, 2016	0.52	0.10	69.3	396
March 23, 2016	0.52	0.09	68.9	389
March 24, 2016	0.66	0.09	68.8	387
March 25, 2016	1.05	0.10	67.8	370
March 26, 2016	0.83	0.11	67.7	364
March 27, 2016	0.36	0.13	67.2	345
March 28, 2016	OFFLINE	OFFLINE	OFFLINE	OFFLINE
March 29, 2016	0.50	0.10	68.5	360
March 30, 2016	1.02	0.09	68.7	367
March 31, 2016	0.51	0.10	67.9	368

Monthly Totals	MG	NTU	Percent	mW/cm2
MAX	1.49	0.15	73.7	439
MIN	0.34	0.09	66.6	345
AVG	0.66	0.11	69.7	385
Total	13.78			

Permit Values Max = 0.2 Min = 65 Min = 80

DUBLIN SAN RAMON SERVICES DISTRICT
Recycled Water System

Operating Data - Daily Averages

Date	Recycled Water Produced (MG)	Filtrate Turbidity (Average NTU)	UV Transmittance of Recycled Water Produced (Average %)	UV Dosage (Average mW/cm2)
April 1, 2016	OFFLINE	OFFLINE	OFFLINE	OFFLINE
April 2, 2016	OFFLINE	OFFLINE	OFFLINE	OFFLINE
April 3, 2016	OFFLINE	OFFLINE	OFFLINE	OFFLINE
April 4, 2016	OFFLINE	OFFLINE	OFFLINE	OFFLINE
April 5, 2016	OFFLINE	OFFLINE	OFFLINE	OFFLINE
April 6, 2016	OFFLINE	OFFLINE	OFFLINE	OFFLINE
April 7, 2016	OFFLINE	OFFLINE	OFFLINE	OFFLINE
April 8, 2016	OFFLINE	OFFLINE	OFFLINE	OFFLINE
April 9, 2016	OFFLINE	OFFLINE	OFFLINE	OFFLINE
April 10, 2016	OFFLINE	OFFLINE	OFFLINE	OFFLINE
April 11, 2016	OFFLINE	OFFLINE	OFFLINE	OFFLINE
April 12, 2016	OFFLINE	OFFLINE	OFFLINE	OFFLINE
April 13, 2016	OFFLINE	OFFLINE	OFFLINE	OFFLINE
April 14, 2016	OFFLINE	OFFLINE	OFFLINE	OFFLINE
April 15, 2016	OFFLINE	OFFLINE	OFFLINE	OFFLINE
April 16, 2016	OFFLINE	OFFLINE	OFFLINE	OFFLINE
April 17, 2016	OFFLINE	OFFLINE	OFFLINE	OFFLINE
April 18, 2016	OFFLINE	OFFLINE	OFFLINE	OFFLINE
April 19, 2016	OFFLINE	OFFLINE	OFFLINE	OFFLINE
April 20, 2016	OFFLINE	OFFLINE	OFFLINE	OFFLINE
April 21, 2016	OFFLINE	OFFLINE	OFFLINE	OFFLINE
April 22, 2016	OFFLINE	OFFLINE	OFFLINE	OFFLINE
April 23, 2016	OFFLINE	OFFLINE	OFFLINE	OFFLINE
April 24, 2016	OFFLINE	OFFLINE	OFFLINE	OFFLINE
April 25, 2016	OFFLINE	OFFLINE	OFFLINE	OFFLINE
April 26, 2016	OFFLINE	OFFLINE	OFFLINE	OFFLINE
April 27, 2016	OFFLINE	OFFLINE	OFFLINE	OFFLINE
April 28, 2016	OFFLINE	OFFLINE	OFFLINE	OFFLINE
April 29, 2016	OFFLINE	OFFLINE	OFFLINE	OFFLINE
April 30, 2016	OFFLINE	OFFLINE	OFFLINE	OFFLINE

Monthly Totals	MG	NTU	Percent	mW/cm2
MAX	OFFLINE	OFFLINE	OFFLINE	OFFLINE
MIN	OFFLINE	OFFLINE	OFFLINE	OFFLINE
AVG	OFFLINE	OFFLINE	OFFLINE	OFFLINE
Total	OFFLINE			

Permit Values Max = 0.2 Min = 65 Min = 80

DUBLIN SAN RAMON SERVICES DISTRICT
Recycled Water System

Operating Data - Daily Averages

Date	Recycled Water Produced (MG)	Filtrate Turbidity (Average NTU)	UV Transmittance of Recycled Water Produced (Average %)	UV Dosage (Average mW/cm2)
May 1, 2016	OFFLINE	OFFLINE	OFFLINE	OFFLINE
May 2, 2016	OFFLINE	OFFLINE	OFFLINE	OFFLINE
May 3, 2016	OFFLINE	OFFLINE	OFFLINE	OFFLINE
May 4, 2016	OFFLINE	OFFLINE	OFFLINE	OFFLINE
May 5, 2016	OFFLINE	OFFLINE	OFFLINE	OFFLINE
May 6, 2016	OFFLINE	OFFLINE	OFFLINE	OFFLINE
May 7, 2016	OFFLINE	OFFLINE	OFFLINE	OFFLINE
May 8, 2016	OFFLINE	OFFLINE	OFFLINE	OFFLINE
May 9, 2016	OFFLINE	OFFLINE	OFFLINE	OFFLINE
May 10, 2016	OFFLINE	OFFLINE	OFFLINE	OFFLINE
May 11, 2016	OFFLINE	OFFLINE	OFFLINE	OFFLINE
May 12, 2016	OFFLINE	OFFLINE	OFFLINE	OFFLINE
May 13, 2016	OFFLINE	OFFLINE	OFFLINE	OFFLINE
May 14, 2016	OFFLINE	OFFLINE	OFFLINE	OFFLINE
May 15, 2016	OFFLINE	OFFLINE	OFFLINE	OFFLINE
May 16, 2016	OFFLINE	OFFLINE	OFFLINE	OFFLINE
May 17, 2016	0.50	0.09	66.4	310
May 18, 2016	1.69	0.09	68.2	302
May 19, 2016	0.86	0.08	68.4	298
May 20, 2016	OFFLINE	OFFLINE	OFFLINE	OFFLINE
May 21, 2016	OFFLINE	OFFLINE	OFFLINE	OFFLINE
May 22, 2016	OFFLINE	OFFLINE	OFFLINE	OFFLINE
May 23, 2016	0.90	0.09	70.3	353
May 24, 2016	1.55	0.08	69.8	338
May 25, 2016	1.54	0.08	69.5	336
May 26, 2016	1.44	0.11	68.9	340
May 27, 2016	0.95	0.13	69.1	400
May 28, 2016	0.86	0.11	69.2	394
May 29, 2016	OFFLINE	OFFLINE	OFFLINE	OFFLINE
May 30, 2016	OFFLINE	OFFLINE	OFFLINE	OFFLINE
May 31, 2016	OFFLINE	OFFLINE	OFFLINE	OFFLINE

Monthly Totals	MG	NTU	Percent	mW/cm2
MAX	1.69	0.13	70.3	400
MIN	0.50	0.08	66.4	298
AVG	1.14	0.10	68.9	341
Total	10.27			

Permit Values Max = 0.2 Min = 65 Min = 80

DUBLIN SAN RAMON SERVICES DISTRICT
Recycled Water System

Operating Data - Daily Averages

Date	Recycled Water Produced (MG)	Filtrate Turbidity (Average NTU)	UV Transmittance of Recycled Water Produced (Average %)	UV Dosage (Average mW/cm2)
June 1, 2016	OFFLINE	OFFLINE	OFFLINE	OFFLINE
June 2, 2016	OFFLINE	OFFLINE	OFFLINE	OFFLINE
June 3, 2016	OFFLINE	OFFLINE	OFFLINE	OFFLINE
June 4, 2016	OFFLINE	OFFLINE	OFFLINE	OFFLINE
June 5, 2016	OFFLINE	OFFLINE	OFFLINE	OFFLINE
June 6, 2016	OFFLINE	OFFLINE	OFFLINE	OFFLINE
June 7, 2016	OFFLINE	OFFLINE	OFFLINE	OFFLINE
June 8, 2016	OFFLINE	OFFLINE	OFFLINE	OFFLINE
June 9, 2016	1.14	0.13	69.5	375
June 10, 2016	0.34	0.12	68.4	382
June 11, 2016	OFFLINE	OFFLINE	OFFLINE	OFFLINE
June 12, 2016	OFFLINE	OFFLINE	OFFLINE	OFFLINE
June 13, 2016	OFFLINE	OFFLINE	OFFLINE	OFFLINE
June 14, 2016	OFFLINE	OFFLINE	OFFLINE	OFFLINE
June 15, 2016	OFFLINE	OFFLINE	OFFLINE	OFFLINE
June 16, 2016	OFFLINE	OFFLINE	OFFLINE	OFFLINE
June 17, 2016	OFFLINE	OFFLINE	OFFLINE	OFFLINE
June 18, 2016	OFFLINE	OFFLINE	OFFLINE	OFFLINE
June 19, 2016	OFFLINE	OFFLINE	OFFLINE	OFFLINE
June 20, 2016	OFFLINE	OFFLINE	OFFLINE	OFFLINE
June 21, 2016	0.80	0.09	67.3	277
June 22, 2016	0.52	0.09	67.0	275
June 23, 2016	0.61	0.10	67.9	342
June 24, 2016	1.12	0.14	68.2	337
June 25, 2016	1.38	0.13	68.1	339
June 26, 2016	0.97	0.16	68.9	353
June 27, 2016	1.02	0.15	67.9	330
June 28, 2016	1.20	0.12	68.2	361
June 29, 2016	0.63	0.11	69.3	389
June 30, 2016	0.33	0.09	69.0	368

Monthly Totals	MG	NTU	Percent	mW/cm2
MAX	1.38	0.16	69.5	389
MIN	0.33	0.09	67.0	275
AVG	0.84	0.12	68.3	344
Total	10.06			

Permit Values

Max = 0.2

Min = 65

Min = 80

DUBLIN SAN RAMON SERVICES DISTRICT
Recycled Water System

Operating Data - Daily Averages

Date	Recycled Water Produced (MG)	Filtrate Turbidity (Average NTU)	UV Transmittance of Recycled Water Produced (Average %)	UV Dosage (Average mW/cm2)
July 1, 2016	0.90	0.11	69.1	369
July 2, 2016	0.53	0.11	68.9	367
July 3, 2016	OFFLINE	OFFLINE	OFFLINE	OFFLINE
July 4, 2016	OFFLINE	OFFLINE	OFFLINE	OFFLINE
July 5, 2016	OFFLINE	OFFLINE	OFFLINE	OFFLINE
July 6, 2016	OFFLINE	OFFLINE	OFFLINE	OFFLINE
July 7, 2016	OFFLINE	OFFLINE	OFFLINE	OFFLINE
July 8, 2016	OFFLINE	OFFLINE	OFFLINE	OFFLINE
July 9, 2016	OFFLINE	OFFLINE	OFFLINE	OFFLINE
July 10, 2016	OFFLINE	OFFLINE	OFFLINE	OFFLINE
July 11, 2016	OFFLINE	OFFLINE	OFFLINE	OFFLINE
July 12, 2016	OFFLINE	OFFLINE	OFFLINE	OFFLINE
July 13, 2016	OFFLINE	OFFLINE	OFFLINE	OFFLINE
July 14, 2016	OFFLINE	OFFLINE	OFFLINE	OFFLINE
July 15, 2016	OFFLINE	OFFLINE	OFFLINE	OFFLINE
July 16, 2016	OFFLINE	OFFLINE	OFFLINE	OFFLINE
July 17, 2016	OFFLINE	OFFLINE	OFFLINE	OFFLINE
July 18, 2016	OFFLINE	OFFLINE	OFFLINE	OFFLINE
July 19, 2016	0.81	0.12	68.0	342
July 20, 2016	0.71	0.11	68.0	371
July 21, 2016	0.78	0.13	68.2	349
July 22, 2016	0.24	0.14	66.8	363
July 23, 2016	OFFLINE	OFFLINE	OFFLINE	OFFLINE
July 24, 2016	OFFLINE	OFFLINE	OFFLINE	OFFLINE
July 25, 2016	OFFLINE	OFFLINE	OFFLINE	OFFLINE
July 26, 2016	0.96	0.15	70.4	385
July 27, 2016	1.24	0.15	69.8	367
July 28, 2016	1.39	0.15	69.5	371
July 29, 2016	1.14	0.13	69.8	375
July 30, 2016	0.85	0.06	70.3	348
July 31, 2016	0.29	0.09	70.0	326

Monthly Totals	MG	NTU	Percent	mW/cm2
MAX	1.39	0.15	70.4	385
MIN	0.24	0.06	66.8	326
AVG	0.82	0.12	69.1	361
Total	9.84			

Permit Values

Max = 0.2

Min = 65

Min = 80

DUBLIN SAN RAMON SERVICES DISTRICT
Recycled Water System

Operating Data - Daily Averages

Date	Recycled Water Produced (MG)	Filtrate Turbidity (Average NTU)	UV Transmittance of Recycled Water Produced (Average %)	UV Dosage (Average mW/cm2)
August 1, 2016	OFFLINE	OFFLINE	OFFLINE	OFFLINE
August 2, 2016	0.70	0.13	69.8	425
August 3, 2016	OFFLINE	OFFLINE	OFFLINE	OFFLINE
August 4, 2016	OFFLINE	OFFLINE	OFFLINE	OFFLINE
August 5, 2016	OFFLINE	OFFLINE	OFFLINE	OFFLINE
August 6, 2016	OFFLINE	OFFLINE	OFFLINE	OFFLINE
August 7, 2016	OFFLINE	OFFLINE	OFFLINE	OFFLINE
August 8, 2016	OFFLINE	OFFLINE	OFFLINE	OFFLINE
August 9, 2016	OFFLINE	OFFLINE	OFFLINE	OFFLINE
August 10, 2016	OFFLINE	OFFLINE	OFFLINE	OFFLINE
August 11, 2016	OFFLINE	OFFLINE	OFFLINE	OFFLINE
August 12, 2016	OFFLINE	OFFLINE	OFFLINE	OFFLINE
August 13, 2016	OFFLINE	OFFLINE	OFFLINE	OFFLINE
August 14, 2016	OFFLINE	OFFLINE	OFFLINE	OFFLINE
August 15, 2016	OFFLINE	OFFLINE	OFFLINE	OFFLINE
August 16, 2016	OFFLINE	OFFLINE	OFFLINE	OFFLINE
August 17, 2016	OFFLINE	OFFLINE	OFFLINE	OFFLINE
August 18, 2016	OFFLINE	OFFLINE	OFFLINE	OFFLINE
August 19, 2016	OFFLINE	OFFLINE	OFFLINE	OFFLINE
August 20, 2016	OFFLINE	OFFLINE	OFFLINE	OFFLINE
August 21, 2016	OFFLINE	OFFLINE	OFFLINE	OFFLINE
August 22, 2016	OFFLINE	OFFLINE	OFFLINE	OFFLINE
August 23, 2016	OFFLINE	OFFLINE	OFFLINE	OFFLINE
August 24, 2016	OFFLINE	OFFLINE	OFFLINE	OFFLINE
August 25, 2016	OFFLINE	OFFLINE	OFFLINE	OFFLINE
August 26, 2016	OFFLINE	OFFLINE	OFFLINE	OFFLINE
August 27, 2016	OFFLINE	OFFLINE	OFFLINE	OFFLINE
August 28, 2016	OFFLINE	OFFLINE	OFFLINE	OFFLINE
August 29, 2016	OFFLINE	OFFLINE	OFFLINE	OFFLINE
August 30, 2016	OFFLINE	OFFLINE	OFFLINE	OFFLINE
August 31, 2016	OFFLINE	OFFLINE	OFFLINE	OFFLINE

Monthly Totals	MG	NTU	Percent	mW/cm2
MAX	0.70	0.13	69.8	425
MIN	0.70	0.13	69.8	425
AVG	0.70	0.13	69.8	425
Total	0.70			

Permit Values

Max = 0.2

Min = 65

Min = 80

DUBLIN SAN RAMON SERVICES DISTRICT
Recycled Water System

Operating Data - Daily Averages

Date	Recycled Water Produced (MG)	Filtrate Turbidity (Average NTU)	UV Transmittance of Recycled Water Produced (Average %)	UV Dosage (Average mW/cm2)
September 1, 2016	OFFLINE	OFFLINE	OFFLINE	OFFLINE
September 2, 2016	OFFLINE	OFFLINE	OFFLINE	OFFLINE
September 3, 2016	OFFLINE	OFFLINE	OFFLINE	OFFLINE
September 4, 2016	OFFLINE	OFFLINE	OFFLINE	OFFLINE
September 5, 2016	OFFLINE	OFFLINE	OFFLINE	OFFLINE
September 6, 2016	OFFLINE	OFFLINE	OFFLINE	OFFLINE
September 7, 2016	OFFLINE	OFFLINE	OFFLINE	OFFLINE
September 8, 2016	OFFLINE	OFFLINE	OFFLINE	OFFLINE
September 9, 2016	OFFLINE	OFFLINE	OFFLINE	OFFLINE
September 10, 2016	OFFLINE	OFFLINE	OFFLINE	OFFLINE
September 11, 2016	OFFLINE	OFFLINE	OFFLINE	OFFLINE
September 12, 2016	0.27	0.08	66.8	321
September 13, 2016	1.37	0.07	68.7	341
September 14, 2016	0.75	0.07	68.6	339
September 15, 2016	OFFLINE	OFFLINE	OFFLINE	OFFLINE
September 16, 2016	OFFLINE	OFFLINE	OFFLINE	OFFLINE
September 17, 2016	OFFLINE	OFFLINE	OFFLINE	OFFLINE
September 18, 2016	OFFLINE	OFFLINE	OFFLINE	OFFLINE
September 19, 2016	OFFLINE	OFFLINE	OFFLINE	OFFLINE
September 20, 2016	OFFLINE	OFFLINE	OFFLINE	OFFLINE
September 21, 2016	OFFLINE	OFFLINE	OFFLINE	OFFLINE
September 22, 2016	OFFLINE	OFFLINE	OFFLINE	OFFLINE
September 23, 2016	OFFLINE	OFFLINE	OFFLINE	OFFLINE
September 24, 2016	OFFLINE	OFFLINE	OFFLINE	OFFLINE
September 25, 2016	OFFLINE	OFFLINE	OFFLINE	OFFLINE
September 26, 2016	OFFLINE	OFFLINE	OFFLINE	OFFLINE
September 27, 2016	OFFLINE	OFFLINE	OFFLINE	OFFLINE
September 28, 2016	OFFLINE	OFFLINE	OFFLINE	OFFLINE
September 29, 2016	OFFLINE	OFFLINE	OFFLINE	OFFLINE
September 30, 2016	OFFLINE	OFFLINE	OFFLINE	OFFLINE
-	-	-	-	-

Monthly Totals	MG	NTU	Percent	mW/cm2
MAX	1.37	0.08	68.7	341
MIN	0.27	0.07	66.8	321
AVG	0.80	0.07	68.0	334
Total	2.39			

Permit Values Max = 0.2 Min = 65 Min = 80

DUBLIN SAN RAMON SERVICES DISTRICT
Recycled Water System

Operating Data - Daily Averages

Date	Recycled Water Produced (MG)	Filtrate Turbidity (Average NTU)	UV Transmittance of Recycled Water Produced (Average %)	UV Dosage (Average mW/cm2)
October 1, 2016	OFFLINE	OFFLINE	OFFLINE	OFFLINE
October 2, 2016	OFFLINE	OFFLINE	OFFLINE	OFFLINE
October 3, 2016	OFFLINE	OFFLINE	OFFLINE	OFFLINE
October 4, 2016	OFFLINE	OFFLINE	OFFLINE	OFFLINE
October 5, 2016	OFFLINE	OFFLINE	OFFLINE	OFFLINE
October 6, 2016	OFFLINE	OFFLINE	OFFLINE	OFFLINE
October 7, 2016	OFFLINE	OFFLINE	OFFLINE	OFFLINE
October 8, 2016	OFFLINE	OFFLINE	OFFLINE	OFFLINE
October 9, 2016	OFFLINE	OFFLINE	OFFLINE	OFFLINE
October 10, 2016	OFFLINE	OFFLINE	OFFLINE	OFFLINE
October 11, 2016	OFFLINE	OFFLINE	OFFLINE	OFFLINE
October 12, 2016	OFFLINE	OFFLINE	OFFLINE	OFFLINE
October 13, 2016	OFFLINE	OFFLINE	OFFLINE	OFFLINE
October 14, 2016	OFFLINE	OFFLINE	OFFLINE	OFFLINE
October 15, 2016	OFFLINE	OFFLINE	OFFLINE	OFFLINE
October 16, 2016	OFFLINE	OFFLINE	OFFLINE	OFFLINE
October 17, 2016	OFFLINE	OFFLINE	OFFLINE	OFFLINE
October 18, 2016	OFFLINE	OFFLINE	OFFLINE	OFFLINE
October 19, 2016	OFFLINE	OFFLINE	OFFLINE	OFFLINE
October 20, 2016	OFFLINE	OFFLINE	OFFLINE	OFFLINE
October 21, 2016	OFFLINE	OFFLINE	OFFLINE	OFFLINE
October 22, 2016	OFFLINE	OFFLINE	OFFLINE	OFFLINE
October 23, 2016	OFFLINE	OFFLINE	OFFLINE	OFFLINE
October 24, 2016	OFFLINE	OFFLINE	OFFLINE	OFFLINE
October 25, 2016	OFFLINE	OFFLINE	OFFLINE	OFFLINE
October 26, 2016	OFFLINE	OFFLINE	OFFLINE	OFFLINE
October 27, 2016	OFFLINE	OFFLINE	OFFLINE	OFFLINE
October 28, 2016	OFFLINE	OFFLINE	OFFLINE	OFFLINE
October 29, 2016	OFFLINE	OFFLINE	OFFLINE	OFFLINE
October 30, 2016	OFFLINE	OFFLINE	OFFLINE	OFFLINE
October 31, 2016	0.61	0.08	67.9	359

Monthly Totals	MG	NTU	Percent	mW/cm2
MAX	0.61	0.08	67.9	359
MIN	0.61	0.08	67.9	359
AVG	0.61	0.08	67.9	359
Total	0.61			

Permit Values

Max = 0.2

Min = 65

Min = 80

DUBLIN SAN RAMON SERVICES DISTRICT
Recycled Water System

Operating Data - Daily Averages

Date	Recycled Water Produced (MG)	Filtrate Turbidity (Average NTU)	UV Transmittance of Recycled Water Produced (Average %)	UV Dosage (Average mW/cm2)
November 1, 2016	1.49	0.08	68.9	346
November 2, 2016	1.51	0.08	68.4	340
November 3, 2016	1.19	0.10	68.4	361
November 4, 2016	OFFLINE	OFFLINE	OFFLINE	OFFLINE
November 5, 2016	OFFLINE	OFFLINE	OFFLINE	OFFLINE
November 6, 2016	OFFLINE	OFFLINE	OFFLINE	OFFLINE
November 7, 2016	0.53	0.10	66.8	378
November 8, 2016	1.10	0.09	67.7	367
November 9, 2016	0.77	0.10	67.2	379
November 10, 2016	0.81	0.11	68.7	397
November 11, 2016	0.83	0.12	68.3	392
November 12, 2016	0.77	0.11	67.2	351
November 13, 2016	OFFLINE	OFFLINE	OFFLINE	OFFLINE
November 14, 2016	0.88	0.07	69.9	332
November 15, 2016	1.48	0.07	69.9	326
November 16, 2016	1.37	0.10	69.7	353
November 17, 2016	1.04	0.10	70.3	368
November 18, 2016	1.43	0.09	71.5	370
November 19, 2016	0.80	0.09	70.2	357
November 20, 2016	OFFLINE	OFFLINE	OFFLINE	OFFLINE
November 21, 2016	OFFLINE	OFFLINE	OFFLINE	OFFLINE
November 22, 2016	OFFLINE	OFFLINE	OFFLINE	OFFLINE
November 23, 2016	OFFLINE	OFFLINE	OFFLINE	OFFLINE
November 24, 2016	0.68	0.06	68.7	362
November 25, 2016	1.12	0.07	71.9	391
November 26, 2016	0.46	0.08	67.3	340
November 27, 2016	0.57	0.09	70.0	372
November 28, 2016	0.28	0.11	71.9	402
November 29, 2016	OFFLINE	OFFLINE	OFFLINE	OFFLINE
November 30, 2016	0.48	0.12	68.8	362
-	-	-	-	-

Monthly Totals	MG	NTU	Percent	mW/cm2
MAX	1.51	0.12	71.9	402
MIN	0.28	0.06	66.8	326
AVG	0.93	0.09	69.1	364
Total	19.60			

Permit Values

Max = 0.2

Min = 65

Min = 80

DUBLIN SAN RAMON SERVICES DISTRICT
Recycled Water System

Operating Data - Daily Averages

Date	Recycled Water Produced (MG)	Filtrate Turbidity (Average NTU)	UV Transmittance of Recycled Water Produced (Average %)	UV Dosage (Average mW/cm2)
December 1, 2016	0.71	0.13	68.1	359
December 2, 2016	0.23	0.04	67.2	349
December 3, 2016	OFFLINE	OFFLINE	OFFLINE	OFFLINE
December 4, 2016	OFFLINE	OFFLINE	OFFLINE	OFFLINE
December 5, 2016	OFFLINE	OFFLINE	OFFLINE	OFFLINE
December 6, 2016	OFFLINE	OFFLINE	OFFLINE	OFFLINE
December 7, 2016	0.62	0.12	67.3	324
December 8, 2016	0.47	0.12	67.9	366
December 9, 2016	0.98	0.10	68.0	365
December 10, 2016	0.45	0.11	67.6	352
December 11, 2016	OFFLINE	OFFLINE	OFFLINE	OFFLINE
December 12, 2016	0.48	0.12	67.6	350
December 13, 2016	0.84	0.13	67.6	352
December 14, 2016	0.33	0.14	66.4	340
December 15, 2016	OFFLINE	OFFLINE	OFFLINE	OFFLINE
December 16, 2016	0.21	0.11	65.7	341
December 17, 2016	OFFLINE	OFFLINE	OFFLINE	OFFLINE
December 18, 2016	OFFLINE	OFFLINE	OFFLINE	OFFLINE
December 19, 2016	OFFLINE	OFFLINE	OFFLINE	OFFLINE
December 20, 2016	OFFLINE	OFFLINE	OFFLINE	OFFLINE
December 21, 2016	0.40	0.06	65.5	324
December 22, 2016	0.75	0.06	66.6	339
December 23, 2016	0.97	0.05	65.9	332
December 24, 2016	0.52	0.05	65.4	330
December 25, 2016	OFFLINE	OFFLINE	OFFLINE	OFFLINE
December 26, 2016	OFFLINE	OFFLINE	OFFLINE	OFFLINE
December 27, 2016	OFFLINE	OFFLINE	OFFLINE	OFFLINE
December 28, 2016	0.68	0.07	66.4	352
December 29, 2016	1.14	0.06	68.3	380
December 30, 2016	0.45	0.07	69.3	392
December 31, 2016	OFFLINE	OFFLINE	OFFLINE	OFFLINE

Monthly Totals	MG	NTU	Percent	mW/cm2
MAX	1.14	0.14	69.3	392
MIN	0.21	0.04	65.4	324
AVG	0.60	0.09	67.1	350
Total	10.22			

Permit Values

Max = 0.2

Min = 65

Min = 80

Attachment D

Flow and Turbidity Data

Sand Filtration-Ultraviolet Disinfection Facility

	TIPS Influent Flow Total (Mgal)	SF/UV Recycled Water Flow Total (Mgal)	SF/UV Average Product Turbidity (NTU)	SF/UV -% of time Product Turbidity>5	SF/UV Average UVT (%)	SF/UV Average UV Dosage (mJ/cm2)	SF/UV Minimum UV Dosage (mJ/cm2)
5/1/16							
5/1/16	2.60	2.13	1.52	0.00	62.00	156.35	104.51
5/2/16	4.10	3.75	1.28	0.00	64.05	165.75	126.22
5/3/16	5.60	4.79	1.20	0.00	65.75	192.45	144.68
5/4/16	6.10	4.27	1.22	0.00	66.66	210.29	166.88
5/5/16	5.50	4.93	1.41	0.00	66.64	221.51	159.81
5/6/16	4.60	2.96	1.49	0.00	67.52	196.98	163.57
5/7/16	3.00	0.74	1.94	0.00	65.12	206.23	145.27
5/8/16	2.80	1.36	1.66	0.00	64.68	241.89	65.62
5/9/16	4.40	3.39	1.79	0.00	63.71	171.00	115.92
5/10/16	4.30	3.51	1.46	0.00	66.49	196.45	169.64
5/11/16	4.60	3.76	1.45	0.00	65.82	175.00	149.71
5/12/16	5.80	3.90	1.79	0.00	63.94	168.32	114.72
5/13/16	6.00	5.14	1.62	0.00	65.47	193.54	161.62
5/14/16	3.50	1.97	1.52	0.00	64.01	185.38	143.82
5/15/16	1.40	0.38	1.75	0.00	63.51	172.58	160.70
5/16/16	5.60	4.33	1.52	0.00	64.73	191.83	112.33
5/17/16	6.30	6.14	1.69	0.00	63.72	172.76	127.48
5/18/16	6.70	6.74	1.77	0.00	66.18	228.00	164.31
5/19/16	0.00	NO FLOW	NO FLOW	NO FLOW	NO FLOW	NO FLOW	NO FLOW
5/20/16	5.90	5.02	1.58	0.00	67.91	245.71	174.51
5/21/16	4.00	3.06	1.62	0.00	65.58	188.39	147.46
5/22/16	3.90	2.56	1.85	0.00	65.82	198.99	117.89
5/23/16	5.30	4.92	1.67	0.00	70.11	273.26	176.42
5/24/16	5.90	5.11	1.90	0.00	66.88	219.93	171.20
5/25/16	6.20	3.83	1.92	0.00	65.37	181.70	148.99
5/26/16	6.00	5.39	1.89	0.00	63.40	177.59	144.23
5/27/16	6.30	5.81	1.71	0.00	64.00	176.71	114.89
5/28/16	5.40	4.21	1.61	0.00	66.39	245.25	182.91
5/29/16	5.00	3.86	1.84	0.00	67.90	283.74	212.91
5/30/16	6.10	4.61	1.62	0.00	65.28	205.34	112.43
5/31/16	7.60	6.63	1.44	0.00	64.66	176.66	121.08
Monthly Totals							
MAX.	7.60	6.74	1.94	0.00	70.11	283.74	212.91
MIN.	0.00	0.38	1.20	0.00	62.00	156.35	65.62
AVG.	5.02	3.97	1.62	#DIV/0!	65.44	200.65	144.06
TOT.	150.50	119.22					
Permit Values				Max = 2	Max = 5	Min = 55	Min = 100
Note: Daily values are taken from 7AM to 7AM of the following day.							
See 5 min values Bypassed on low UVI							

	TIPS Influent Flow Total (Mgal)	SF/UV Recycled Water Flow Total (Mgal)	SF/UV Average Product Turbidity (NTU)	SF/UV -% of time Product Turbidity>5	SF/UV Average UVT (%)	SF/UV Average UV Dosage (mJ/cm2)	SF/UV Minimum UV Dosage (mJ/cm2)
6/1/16	7.30	6.37	1.40	0.00	67.80	215.98	176.41
6/2/16	7.70	5.84	1.92	0.00	69.79	232.04	186.04
6/3/16	8.20	6.72	1.87	0.00	70.04	227.57	171.93
6/4/16	8.30	5.25	1.59	0.00	70.77	232.19	160.16
6/5/16	7.40	6.47	1.53	0.00	70.43	245.66	185.79
6/6/16	8.00	6.92	1.79	0.00	70.08	220.05	195.27
6/7/16	8.30	6.82	1.81	0.00	71.59	227.86	207.01
6/8/16	7.10	4.52	1.22	0.00	70.08	240.99	166.47
6/9/16	7.80	7.54	1.25	0.00	69.57	263.04	6.13
6/10/16	7.00	5.92	1.64	0.00	68.45	210.38	184.15
6/11/16	6.30	4.48	1.63	0.00	67.09	222.01	99.37
6/12/16	6.00	4.42	1.49	0.00	63.25	181.33	150.04
6/13/16	6.60	5.20	1.58	0.00	62.99	171.49	73.02
6/14/16	8.70	7.55	1.63	0.00	70.27	218.72	146.34
6/15/16	7.20	5.95	1.67	0.00	73.03	254.13	218.00
6/16/16	8.10	6.60	1.78	0.00	72.51	249.10	218.21
6/17/16	7.60	5.89	1.91	0.00	72.71	279.07	206.18
6/18/16	6.50	4.58	1.27	0.00	71.62	254.25	185.12
6/19/16	6.50	5.40	1.24	0.00	70.49	236.53	188.56
6/20/16	7.90	5.76	1.39	0.00	70.64	237.46	165.62
6/21/16	8.00	7.97	1.57	0.00	69.23	208.66	156.64
6/22/16	8.00	6.09	1.52	0.00	70.28	229.40	164.86
6/23/16	7.70	7.16	1.23	0.00	70.52	251.27	149.17
6/24/16	7.40	7.30	1.60	0.00	68.99	231.27	202.05
6/25/16	6.50	6.04	1.75	0.00	68.02	217.47	192.38
6/26/16	5.80	5.26	1.54	0.00	66.71	203.85	154.36
6/27/16	6.50	6.06	1.63	0.00	63.04	153.81	122.23
6/28/16	7.90	7.93	1.22	0.00	65.84	189.38	135.16
6/29/16	7.84	7.40	1.20	0.00	64.38	181.04	127.96
6/30/16	7.72	6.43	1.17	0.00	61.68	165.58	114.62
Monthly Totals							
MAX.	8.70	7.97	1.92	0.00	73.03	279.07	218.21
MIN.	5.80	4.42	1.17	0.00	61.68	153.81	6.13
AVG.	7.40	6.19	1.53	#DIV/0!	68.73	221.72	160.31
TOT.	221.86	185.85					
Permit Values				Max = 2	Max = 5	Min = 55	Min = 100
Note: Daily values are taken from 7AM to 7AM of the following day.							
*10/26/08	Bypassed low	UVI					

	TIPS Influent Flow Total (Mgal)	SF/UV Recycled Water Flow Total (Mgal)	SF/UV Average Product Turbidity (NTU)	SF/UV -% of time Product Turbidity>5	SF/UV Average UVT (%)	SF/UV Average UV Dosage (mJ/cm2)	SF/UV Minimum UV Dosage (mJ/cm2)
7/1/16	7.80	7.19	1.33	0.00	69.88	230.25	82.52
7/2/16	8.00	7.03	1.80	0.00	69.76	222.57	164.95
7/3/16	7.60	6.05	1.67	0.00	70.36	239.08	181.99
7/4/16	7.56	6.00	1.69	0.00	69.46	230.46	176.95
7/5/16	7.30	5.67	1.79	0.00	64.03	178.65	146.66
7/6/16	8.20	6.27	1.52	0.00	62.83	161.33	120.42
7/7/16	8.20	7.10	1.21	0.00	68.66	207.07	32.10
7/8/16	7.90	6.69	1.24	0.00	71.97	247.56	214.03
7/9/16	6.80	4.80	1.20	0.00	72.82	254.05	169.30
7/10/16	6.10	4.74	1.57	0.00	72.19	263.24	200.06
7/11/16	8.00	6.84	1.74	0.00	70.11	235.02	194.63
7/12/16	NO DATA	NO DATA	NO DATA	NO DATA	NO DATA	NO DATA	NO DATA
7/13/16	NO DATA	NO DATA	NO DATA	NO DATA	NO DATA	NO DATA	NO DATA
7/14/16	8.40	7.28	1.60	0.00	69.64	220.44	176.62
7/15/16	8.50	6.89	1.67	0.00	68.88	201.10	158.10
7/16/16	8.30	7.27	1.38	0.00	68.78	214.72	169.20
7/17/16	7.80	5.46	1.23	0.00	69.38	246.19	212.36
7/18/16	7.80	6.13	1.31	0.00	69.50	242.48	191.33
7/19/16	7.80	7.36	1.52	0.00	69.79	233.32	139.34
7/20/16	8.60	8.00	1.31	0.00	69.41	203.71	168.62
7/21/16	8.40	8.15	1.31	0.00	70.02	216.50	174.64
7/22/16	8.70	7.55	1.28	0.00	69.12	199.01	160.10
7/23/16	7.80	6.09	1.36	0.00	68.71	212.56	128.64
7/24/16	7.70	5.46	1.50	0.00	68.29	237.18	141.33
7/25/16	8.80	6.73	1.65	0.00	64.64	170.21	118.62
7/26/16	NO DATA	NO DATA	NO DATA	NO DATA	NO DATA	NO DATA	NO DATA
7/27/16	NO DATA	NO DATA	NO DATA	NO DATA	NO DATA	NO DATA	NO DATA
7/28/16	NO DATA	NO DATA	NO DATA	NO DATA	NO DATA	NO DATA	NO DATA
7/29/16	NO DATA	NO DATA	NO DATA	NO DATA	NO DATA	NO DATA	NO DATA
7/30/16	NO DATA	NO DATA	NO DATA	NO DATA	NO DATA	NO DATA	NO DATA
7/31/16	NO DATA	NO DATA	NO DATA	NO DATA	NO DATA	NO DATA	NO DATA
Monthly Totals							
MAX.	8.80	8.15	1.80	0.00	72.82	263.24	214.03
MIN.	6.10	4.74	1.20	0.00	62.83	161.33	32.10
AVG.	7.92	6.55	1.47	#DIV/0!	69.05	220.29	157.50
TOT.	182.06	150.74					
Permit Values			Max = 2	Max = 5	Min = 55		Min = 100
Note: Daily values are taken from 7AM to 7AM of the following day.							
*10/26/08	Bypassed low UVI						

	TIPS Influent Flow Total (Mgal)	SF/UV Recycled Water Flow Total (Mgal)	SF/UV Average Product Turbidity (NTU)	SF/UV -% of time Product Turbidity>5	SF/UV Average UVT (%)	SF/UV Average UV Dosage (mJ/cm2)	SF/UV Minimum UV Dosage (mJ/cm2)
8/1/16	NO DATA	NO DATA	NO DATA	NO DATA	NO DATA	NO DATA	NO DATA
8/2/16	NO DATA	NO DATA	NO DATA	NO DATA	NO DATA	NO DATA	NO DATA
8/3/16	NO DATA	NO DATA	NO DATA	NO DATA	NO DATA	NO DATA	NO DATA
8/4/16	8.90	7.50	1.73	0.00	65.69	170.63	133.73
8/5/16	8.10	6.36	1.52	0.00	64.71	178.72	133.70
8/6/16	8.10	6.30	1.56	0.00	65.80	189.60	119.19
8/7/16	6.10	4.64	1.56	0.00	65.76	196.43	131.70
8/8/16	8.50	7.58	1.59	0.00	64.70	173.93	150.64
8/9/16	8.50	7.21	1.58	0.00	64.19	173.58	120.37
8/10/16	8.60	7.46	1.46	0.00	64.05	162.70	134.45
8/11/16	8.80	7.86	1.42	0.00	64.60	160.52	135.60
8/12/16	8.40	7.39	1.67	0.00	63.99	160.05	139.00
8/13/16	6.80	5.72	1.36	0.00	63.63	162.45	129.54
8/14/16	NO DATA	NO DATA	NO DATA	NO DATA	NO DATA	NO DATA	NO DATA
8/15/16	8.10	7.09	1.33	0.00	63.61	161.45	132.38
8/16/16	8.60	7.53	1.23	0.00	64.36	156.43	134.02
8/17/16	8.30	6.61	1.09	0.00	65.27	177.92	146.11
8/18/16	8.70	7.71	1.24	0.00	63.88	153.26	125.17
8/19/16	8.20	6.96	1.08	0.00	63.17	154.13	123.36
8/20/16	8.10	5.75	1.07	0.00	63.97	162.10	128.45
8/21/16	6.40	5.06	1.61	0.00	61.86	145.74	108.81
8/22/16	8.20	6.77	1.69	0.00	61.77	154.56	126.22
8/23/16	8.50	6.78	1.56	0.00	61.78	151.76	104.41
8/24/16	8.40	6.40	1.58	0.00	60.27	145.74	97.35
8/25/16	8.40	6.78	1.40	0.00	59.88	139.56	87.33
8/26/16	6.60	5.47	1.13	0.00	59.39	137.57	94.58
8/27/16	4.80	3.68	1.39	0.00	58.46	124.51	73.11
8/28/16	4.80	4.94	1.39	0.00	58.46	124.51	73.11
8/29/16	14.90	7.70	1.56	0.00	57.72	125.56	95.35
8/30/16	8.20	7.09	1.34	0.00	57.67	125.90	103.38
8/31/16	7.20	5.86	1.39	0.00	65.91	191.19	132.50
Monthly Totals							
MAX.	14.90	7.86	1.73	0.00	65.91	196.43	150.64
MIN.	4.80	3.68	1.07	0.00	57.67	124.51	73.11
AVG.	8.04	6.53	1.43	#DIV/0!	62.76	157.80	119.02
Permit Values		217.20	176.23	Max = 2	Max = 5	Min = 55	Min = 100
Note: Daily values are taken from 7AM to 7AM of the following day.							
*10/26/08	Bypassed low UVI						

	TIPS Influent Flow Total (Mgal)	SF/UV Recycled Water Flow Total (Mgal)	SF/UV Average Product Turbidity (NTU)	SF/UV -% of time Product Turbidity>5	SF/UV Average UVT (%)	SF/UV Average UV Dosage (mJ/cm2)	SF/UV Minimum UV Dosage (mJ/cm2)
9/1/16							
9/1/16	8.10	6.36	1.13	0.00	72.83	246.26	197.47
9/2/16	7.10	5.36	1.11	0.00	72.42	257.17	203.19
9/3/16	5.70	4.34	1.49	0.00	69.49	234.17	183.76
9/4/16	5.30	3.86	1.38	0.00	70.80	288.38	143.92
9/5/16	6.80	5.85	1.42	0.00	71.15	212.69	176.57
9/6/16	6.80	5.40	1.30	0.00	71.62	222.62	195.27
9/7/16	6.80	5.59	1.27	0.00	71.46	225.62	182.19
9/8/16	7.00	5.58	1.28	0.00	71.28	201.34	161.70
9/9/16	7.40	5.97	1.14	0.00	71.78	230.99	196.05
9/10/16	5.90	3.93	1.44	0.00	70.64	215.21	119.66
9/11/16	5.80	4.02	1.47	0.00	71.55	225.57	155.43
9/12/16	5.80	5.07	1.44	0.00	72.68	248.39	98.70
9/13/16	7.40	6.97	1.32	0.00	74.76	269.02	180.51
9/14/16	7.80	6.83	1.48	0.00	72.81	265.44	203.78
9/15/16	6.10	5.30	1.54	0.00	71.63	236.41	199.10
9/16/16	7.20	5.78	1.56	0.00	70.69	247.65	201.54
9/17/16	5.00	3.76	1.75	0.00	70.04	305.99	211.18
9/18/16	5.50	4.05	1.50	0.00	73.29	250.02	140.14
9/19/16	7.90	7.03	1.52	0.00	73.26	249.03	211.44
9/20/16	7.50	6.52	1.30	0.00	74.89	277.75	216.60
9/21/16	7.00	5.81	1.22	0.00	75.92	298.52	245.76
9/22/16	7.60	6.74	1.49	0.00	74.11	270.62	233.88
9/23/16	6.50	5.36	1.58	0.00	74.60	278.80	218.22
9/24/16	4.90	3.02	1.53	0.00	74.77	334.16	228.49
9/25/16	6.00	3.37	1.64	0.00	75.39	298.01	231.64
9/26/16	7.70	6.28	1.71	0.00	74.94	283.22	190.00
9/27/16	7.60	6.24	1.75	0.00	74.05	263.82	201.03
9/28/16	8.20	7.07	1.53	0.00	75.25	256.70	227.02
9/29/16	7.20	5.51	1.56	0.00	76.90	282.76	234.53
9/30/16	5.30	4.24	1.32	0.00	68.84	188.58	133.17
Monthly Totals							
MAX.	8.20	7.07	1.75	0.00	76.90	334.16	245.76
MIN.	4.90	3.02	1.11	0.00	68.84	188.58	98.70
AVG.	6.70	5.37	1.44	#DIV/0!	72.79	255.50	190.73
TOT.	200.90	161.21					
Permit Values			Max = 2	Max = 5	Min = 55		Min = 100

	TIPS Influent Flow Total (Mgal)	SF/UV Recycled Water Flow Total (Mgal)	SF/UV Average Product Turbidity (NTU)	SF/UV % of time Product Turbidity >5	SF/UV Average UVT (%)	SF/UV Average UV Dosage (mJ/cm2)	SF/UV Minimum UV Dosage (mJ/cm2)
10/1/16	4.90	3.98	1.37	0.00	63.98	161.97	130.90
10/2/16	4.90	3.86	1.55	0.00	62.92	168.40	103.23
10/3/16	5.80	5.04	1.60	0.00	63.04	173.78	137.40
10/4/16	5.00	4.32	1.52	0.00	64.10	182.46	151.15
10/5/16	4.90	3.87	1.54	0.00	63.72	153.66	134.81
10/6/16	4.90	4.02	1.36	0.00	63.79	152.79	136.96
10/7/16	6.50	5.31	1.35	0.00	63.04	157.48	131.04
10/8/16	5.10	3.63	1.44	0.00	62.43	147.06	115.36
10/9/16	4.40	3.24	1.51	0.00	62.86	155.32	96.40
10/10/16	5.00	4.05	1.52	0.00	62.73	141.39	99.02
10/11/16	5.80	4.91	1.47	0.00	63.09	167.43	124.58
10/12/16	4.30	3.31	1.17	0.00	64.73	155.53	136.05
10/13/16	4.70	3.91	1.31	0.00	63.84	156.65	117.68
10/14/16	1.00	0.10	1.45	0.00	63.11	145.61	143.97
10/15/16	0.00	NO FLOW	NO FLOW	NO FLOW	NO FLOW	NO FLOW	NO FLOW
10/16/16	0.00	NO FLOW	NO FLOW	NO FLOW	NO FLOW	NO FLOW	NO FLOW
10/17/16	3.40	2.58	1.53	0.00	62.27	142.78	121.27
10/18/16	4.10	3.43	1.43	0.00	63.56	200.79	132.61
10/19/16	0.70	0.59	1.58	0.00	63.13	173.09	167.75
10/20/16	2.20	1.53	1.59	0.00	64.52	248.33	222.04
10/21/16	2.20	1.27	1.37	0.00	65.70	207.90	151.96
10/22/16	2.40	1.68	1.82	0.00	62.12	192.52	129.28
10/23/16	2.20	0.79	1.95	0.00	62.95	239.57	177.86
10/24/16	3.20	2.10	1.70	0.00	63.49	161.03	139.87
10/25/16	2.50	2.00	1.68	0.00	63.57	202.94	141.07
10/26/16	0.30	0.23	1.95	0.00	61.64	196.57	182.68
10/27/16	0.00	NO FLOW	NO FLOW	NO FLOW	NO FLOW	NO FLOW	NO FLOW
10/28/16	0.00	NO FLOW	NO FLOW	NO FLOW	NO FLOW	NO FLOW	NO FLOW
10/29/16	0.00	NO FLOW	NO FLOW	NO FLOW	NO FLOW	NO FLOW	NO FLOW
10/30/16	0.00	NO FLOW	NO FLOW	NO FLOW	NO FLOW	NO FLOW	NO FLOW
10/31/16	0.00	NO FLOW	NO FLOW	NO FLOW	NO FLOW	NO FLOW	NO FLOW
Monthly Totals							
MAX.	6.50	5.31	1.95	0.00	65.70	248.33	222.04
MIN.	0.00	0.10	1.17	0.00	61.64	141.39	96.40
AVG.	3.77	2.91	1.53	#DIV/0!	63.35	174.38	138.54
TOT.	90.40	69.76					
Permit Values			Max = 2	Max = 5	Min = 55		Min = 100

	TIPS Influent Flow Total (Mgal)	SF/UV Recycled Water Flow Total (Mgal)	SF/UV Average Product Turbidity (NTU)	SF/UV %- of time Product Turbidity>5	SF/UV Average UVT (%)	SF/UV Average UV Dosage (mJ/cm2)	SF/UV Minimum UV Dosage (mJ/cm2)
12/1/16	0.00	NO FLOW	NO FLOW	NO FLOW	NO FLOW	NO FLOW	NO FLOW
12/2/16	0.00	NO FLOW	NO FLOW	NO FLOW	NO FLOW	NO FLOW	NO FLOW
12/3/16	0.00	NO FLOW	NO FLOW	NO FLOW	NO FLOW	NO FLOW	NO FLOW
12/4/16	0.00	NO FLOW	NO FLOW	NO FLOW	NO FLOW	NO FLOW	NO FLOW
12/5/16	0.00	NO FLOW	NO FLOW	NO FLOW	NO FLOW	NO FLOW	NO FLOW
12/6/16	0.00	NO FLOW	NO FLOW	NO FLOW	NO FLOW	NO FLOW	NO FLOW
12/7/16	0.00	NO FLOW	NO FLOW	NO FLOW	NO FLOW	NO FLOW	NO FLOW
12/8/16	0.00	NO FLOW	NO FLOW	NO FLOW	NO FLOW	NO FLOW	NO FLOW
12/9/16	0.00	NO FLOW	NO FLOW	NO FLOW	NO FLOW	NO FLOW	NO FLOW
12/10/16	0.00	NO FLOW	NO FLOW	NO FLOW	NO FLOW	NO FLOW	NO FLOW
12/11/16	0.00	NO FLOW	NO FLOW	NO FLOW	NO FLOW	NO FLOW	NO FLOW
12/12/16	0.00	NO FLOW	NO FLOW	NO FLOW	NO FLOW	NO FLOW	NO FLOW
12/13/16	0.00	NO FLOW	NO FLOW	NO FLOW	NO FLOW	NO FLOW	NO FLOW
12/14/16	0.00	NO FLOW	NO FLOW	NO FLOW	NO FLOW	NO FLOW	NO FLOW
12/15/16	0.00	NO FLOW	NO FLOW	NO FLOW	NO FLOW	NO FLOW	NO FLOW
12/16/16	0.00	NO FLOW	NO FLOW	NO FLOW	NO FLOW	NO FLOW	NO FLOW
12/17/16	0.00	NO FLOW	NO FLOW	NO FLOW	NO FLOW	NO FLOW	NO FLOW
12/18/16	0.00	NO FLOW	NO FLOW	NO FLOW	NO FLOW	NO FLOW	NO FLOW
12/19/16	0.00	NO FLOW	NO FLOW	NO FLOW	NO FLOW	NO FLOW	NO FLOW
12/20/16	0.00	NO FLOW	NO FLOW	NO FLOW	NO FLOW	NO FLOW	NO FLOW
12/21/16	0.00	NO FLOW	NO FLOW	NO FLOW	NO FLOW	NO FLOW	NO FLOW
12/22/16	0.00	NO FLOW	NO FLOW	NO FLOW	NO FLOW	NO FLOW	NO FLOW
12/23/16	0.00	NO FLOW	NO FLOW	NO FLOW	NO FLOW	NO FLOW	NO FLOW
12/24/16	0.00	NO FLOW	NO FLOW	NO FLOW	NO FLOW	NO FLOW	NO FLOW
12/25/16	0.00	NO FLOW	NO FLOW	NO FLOW	NO FLOW	NO FLOW	NO FLOW
12/26/16	0.00	NO FLOW	NO FLOW	NO FLOW	NO FLOW	NO FLOW	NO FLOW
12/27/16	0.00	NO FLOW	NO FLOW	NO FLOW	NO FLOW	NO FLOW	NO FLOW
12/28/16	0.00	NO FLOW	NO FLOW	NO FLOW	NO FLOW	NO FLOW	NO FLOW
12/29/16	0.00	NO FLOW	NO FLOW	NO FLOW	NO FLOW	NO FLOW	NO FLOW
12/30/16	0.00	NO FLOW	NO FLOW	NO FLOW	NO FLOW	NO FLOW	NO FLOW
12/31/16	0.00	NO FLOW	NO FLOW	NO FLOW	NO FLOW	NO FLOW	NO FLOW
Monthly Totals							
MAX.	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MIN.	0.00	0.00	0.00	0.00	0.00	0.00	0.00
AVG.	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
TOT.	0.00	0.00					
Permit Values				Max = 2	Max = 5	Min = 55	Min = 100

Attachment E

DSRSD Recycled Water Customer Information and Compliance Summary

- Attachment E Table 1 – Tabular Summary of Recycled Water Use by Billing Period by Each User
- Attachment E Table 2 – Summary of Recycled Water Usage by Application Use Category
- Attachment E Table 3 – List of New Authorized Recycled Water Users
- Attachment E Table 4 – Results from Users’ Self-Monitoring Reports
- Attachment E Table 5 – Summary of Violations Found during Site Inspections and Corrective Actions Taken
- Commercial Water Reuse Permit



**Dublin San Ramon
Services District**

Water, wastewater, recycled water

Clean Water Program
Recycled Water Use by Billing Period for Calendar Year 2016

Lic#	NAME OF SITE	Jan/Feb	Mar/Apr	May/Jun	Jul/Aug	Sep/Oct	Nov/Dec	Total CCF	Total MG
02-100	Extended Stay America	170	94	138	204	222	555	1,383	1.03
02-101	Emerald Point Bldg. A- Streetscape	216	1	216	639	680	314	2,066	1.55
02-103	Dublin Blvd. from Tassajara Creek to Tassajara Rd.	89	99	276	402	533	205	1,604	1.20
02-104	Emerald Glen Park	28	812	4,096	9,529	7,781	3,362	25,608	19.15
02-106	Central Parkway Median Arnold to Hacienda	1	0	79	224	412	122	838	0.63
02-107	Hacienda I-580 to Dublin Blvd. Medians	0	2	121	171	188	105	587	0.44
02-108	Dublin Blvd. - Dougherty Rd to Hacienda Drive	0	0	76	679	848	348	1,951	1.46
02-109	Alameda County Tassajara Creek	0	0	622	1,865	1,800	587	4,874	3.65
02-110	Dublin Sports Ground	11	814	3,260	6,943	6,746	2,383	20,157	15.08
02-111	Dublin Buick, Dublin	32	42	276	429	481	338	1,598	1.20
02-112	SAP (formerly Sybase), Dublin	0	60	421	956	874	165	2,476	1.85
02-113	Tri-Valley SPCA	330	295	276	582	692	404	2,579	1.93
02-114	Emerald Pointe Bldg. B & C	188	0	394	1,147	1,271	395	3,395	2.54
02-116	Waterford Place - Safeway Shopping Center @ Tassajara Rd	376	332	357	683	889	366	3,003	2.25
02-117	Tassajara Creek Subdivision (Tassajara Ranch), Dublin	79	68	137	475	1,013	445	2,217	1.66
02-118	Avana Dublin Station	5	19	190	698	693	542	2,147	1.61
03-105	Central Parkway Medians - Hibernia to Persimmon	0	0	103	166	249	86	604	0.45
03-119	Gleason Drive Medians	0	0	35	109	166	35	345	0.26
03-120	Arlen Ness- 6050 Dublin Blvd.	19	0	19	71	69	34	212	0.16
03-121	Summer Glen- Dublin, Ca	71	4	2	848	1,282	629	2,836	2.12
03-122	MicroDental- Dublin, Ca	83	24	348	932	1,132	155	2,674	2.00
03-123	San Ramon Valley Fire Station #30	0	1	35	111	152	84	383	0.29

Recycled Water Use by Billing Period

Lic#	NAME OF SITE	Jan/Feb	Mar/Apr	May/Jun	Jul/Aug	Sep/Oct	Nov/Dec	Total CCF	Total MG
03-124	Westport Way Park (a.k.a) Dublin Green- Dublin, Ca	9	0	13	42	42	19	125	0.09
03-125	Waterford Apartments- Dublin, Ca	46	80	275	434	417	220	1,472	1.10
04-102	Bellingham Square Park- San Ramon	60	158	898	2,299	2,220	770	6,405	4.79
04-126	East Branch Park- Harcourt & Pemberton, San Ramon	42	20	952	2,051	1,578	544	5,187	3.88
04-127	RA 1102- Windemere Backbone Phase 1A- San Ramon	26	3	3,029	10,006	10,031	3,670	26,765	20.02
04-128	Dublin Fire Station 18	0	96	182	188	258	227	951	0.71
04-129	Tassajara Meadows(I & II) Subdivision - HOA- Dublin, Ca	11	12	115	443	457	179	1,217	0.91
04-130	Dublin Ranch Golf Course- Dublin, Ca	707	329	9,078	29,376	27,573	9,824	76,887	57.51
04-131	Hidden Hills Elementary School- Harcourt & Albion, San Ra	16	80	273	1,515	1,473	371	3,728	2.79
04-132	Central Parkway - medians west of Glynnis Rose	0	0	154	290	373	146	963	0.72
04-133	Bray Commons Park	0	48	813	2,476	2,175	688	6,200	4.64
05-100	RA 1142- Windemere Backbone Phase 2- San Ramon	6	98	1,301	3,956	4,266	1,402	11,029	8.25
05-101	Fairway Ranch Medians	0	0	163	256	353	180	952	0.71
05-102	Hidden Valley Park-10820 Albion Rd., San Ramon	49	45	668	1,712	1,499	538	4,511	3.37
05-103	JPI Apartments (a.k.a Emerald Park Apts.)- Dublin, Ca	0	7	609	2,057	2,196	907	5,776	4.32
05-104	Tract 8714- Village 22- San Ramon	0	4	117	296	428	184	1,029	0.77
05-105	Neighborhood 01- Tract 7984	0	86	1,184	3,182	2,364	1,281	8,097	6.06
05-106	Hidden Crest Park- Asterbell Dr., San Ramon	8	29	350	754	730	275	2,146	1.61
05-107	Neighborhood 08- Tract 8564	0	15	759	1,775	1,727	685	4,961	3.71
05-108	Cornerstone Apartments- San Ramon, Ca	122	166	210	1,401	1,525	795	4,219	3.16
05-109	Tract 8716- Village 24- San Ramon	9	8	139	712	869	358	2,095	1.57
05-110	RA 1124- Watermill Rd.- San Ramon	1	3	307	1,305	1,353	466	3,435	2.57
05-111	Neighborhood 02B- Tract 8688 (San Ramon)	39	75	255	224	394	158	1,145	0.86
05-112	RA 1103-Dougherty Rd.,-San Ramon	7	1	674	2,136	2,521	984	6,323	4.73
05-113	Valley View Park - Monarch & Star Jasmine, San Ramon	6	103	688	1,701	1,810	634	4,942	3.70
05-114	Bank of America, 4250 Dublin Blvd.- Dublin, Ca	14	1	0	108	100	43	266	0.20

Recycled Water Use by Billing Period

Lic#	NAME OF SITE	Jan/Feb	Mar/Apr	May/Jun	Jul/Aug	Sep/Oct	Nov/Dec	Total CCF	Total MG
05-115	Limerick Park (a.k.a. Creekview Park)	7	95	484	1,064	1,028	418	3,096	2.32
05-116	Tract 8712- Village 20- San Ramon	0	0	74	209	226	62	571	0.43
05-117	Tract 8713- Village 21- San Ramon	0	1	117	456	470	163	1,207	0.90
05-118	RA 1130- Ambridge in Windemere-San Ramon	0	19	130	991	1,163	371	2,674	2.00
05-119	RA 1123- Windemere Backbone Section 1B- San Ramon	14	38	936	3,097	3,337	1,103	8,525	6.38
05-121	RA 1116 - N.Wedgewood Rd.- San Ramon	2	0	120	414	380	155	1,071	0.80
05-122	RA 1117- (Monarch & Wedgewood)- San Ramon	3	0	665	2,078	2,332	892	5,970	4.47
05-123	Souyen Park - 1548 Watermill Rd., San Ramon	13	71	362	766	735	369	2,316	1.73
05-124	Tract 8155- Village 16- San Ramon, Ca	1	4	323	749	1,085	329	2,491	1.86
05-125	Tract 8618- Village 11B - San Ramon	0	1	171	483	383	155	1,193	0.89
05-126	Tract 8151- Village 12A- San Ramon	7	7	466	1,119	1,116	419	3,134	2.34
05-129	Tract 8154- Village 15- San Ramon	1	0	110	330	316	126	883	0.66
05-131	Tract 8715- Village 23- San Ramon	0	1	115	335	556	203	1,210	0.91
05-132	RA 1104- N.Gale Ridge Rd. - San Ramon	0	0	58	269	221	55	603	0.45
05-133	RA 1105- S.Bollinger Cyn. Rd -San Ramon	0	1	212	623	963	450	2,249	1.68
05-134	RA 1094- South Bollinger Canyon Rd. (Phase 1A Backbone)	0	1	358	828	2,839	1,156	5,182	3.88
05-135	Tract 8149- Village 10- San Ramon	0	1	373	873	965	383	2,595	1.94
05-139	Tract 8157- Village 18- San Ramon	1	0	164	363	330	141	999	0.75
05-140	Neighborhood 11 Fuel Transition/Bollinger Cyn. Rd. Frontag	0	0	33	93	132	79	337	0.25
05-143	RA 1137- Windemere Phase 4 Backbone- San Ramon	18	3	185	869	653	229	1,957	1.46
05-144	RA 1151- Windemere Phase 4 Backbone- San Ramon	37	23	1,053	2,849	2,883	1,037	7,882	5.90
05-145	Dublin Corners- Dublin, Ca	15	0	0	471	565	395	1,446	1.08
05-146	Neighborhood 09- Tract 8631	4	0	458	1,177	1,029	357	3,025	2.26
05-148	Feathermint Open Space-Neighborhoods 2A/8 Open space	7	0	589	1,313	1,174	488	3,571	2.67
05-149	Emerald Glen Park - Phase 3	13	701	2,897	6,508	5,674	2,278	18,071	13.52
06-100	Sherwood Pocket Park- 5389 Sherwood Way., San Ramon	25	28	162	450	645	221	1,531	1.15

Recycled Water Use by Billing Period

Lic#	NAME OF SITE	Jan/Feb	Mar/Apr	May/Jun	Jul/Aug	Sep/Oct	Nov/Dec	Total CCF	Total MG
06-101	Canyon Oaks Apartments (Branch Creek Place) San Ramon	10	5	743	966	974	855	3,553	2.66
06-102	Dougherty Valley Community Center & Library	15	105	359	396	627	227	1,729	1.29
06-105	DSRSD District Office	12	16	70	407	303	122	930	0.70
06-106	Area G-Central Pkwy, Dublin Blvd., Keegan St.	0	0	279	614	742	319	1,954	1.46
06-107	Windemere Ranch Middle School- 11611 E. Branch., San Ra	14	38	1,569	3,814	4,229	1,118	10,782	8.06
06-110	Mill Creek Apartments (Branch Creek Place) - San Ramon, C	0	51	651	1,726	2,289	1,164	5,881	4.40
06-119	DSRSD Pump Station 300A	0	0	0	0	0	1	1	0.00
06-120	RA 1148-Japonica Way- San Ramon	1	22	413	679	733	269	2,117	1.58
06-122	Quail Run Elementary School- 400 Goldenbay Ave., San Ra	0	258	992	1,974	1,995	599	5,818	4.35
06-125	RA 1125-S. Wedgewood Rd.-San Ramon	0	0	211	770	902	340	2,223	1.66
06-126	Neighborhood 04- Tract 8690	1	44	558	1,034	984	404	3,025	2.26
06-127	Neighborhood 06 Slopes- Tract 8681	8	0	345	606	545	203	1,707	1.28
06-128	RA 1139-Stoneleaf Rd.- San Ramon	0	1	102	559	518	164	1,344	1.01
06-129	Neighborhood 14-Villapaseo- Tract 8685	1	15	214	896	842	286	2,254	1.69
06-130	Neighborhood 15-Rosegarden- Tract 8686	0	0	395	1,086	1,214	372	3,067	2.29
06-131	Creekside Park PA 0010- San Ramon, Ca	4	128	919	1,870	1,909	664	5,494	4.11
06-132	Tassajara Creek Phase 3 Roxbury - Dublin	2	2	3	442	514	244	1,207	0.90
06-133	Dougherty Elementary School- Dublin, Ca	3	54	107	2,334	1,789	759	5,046	3.77
06-134	RA 1153 & 1156 Ivyleaf Springs Rd & Golden Bay Ave. (San	0	8	135	732	686	216	1,777	1.33
06-135	RA 1122- Bollinger Canyon Road- San Ramon	18	0	658	1,774	2,560	1,023	6,033	4.51
06-136	Arnold Road & Martinelli Way- Dublin	30	46	141	355	561	239	1,372	1.03
06-137	Diablo Valley College- San Ramon, Ca	33	191	316	612	597	245	1,994	1.49
06-139	WWTP 7399 Johnson Drive	37	2	1	1,157	1,006	898	3,101	2.32
06-140	Dublin Transit Site A-2- EAH Project PM-8275 (a.k.a. Camelli	186	224	289	202	268	187	1,356	1.01
06-141	Muirlands at Windemere Tract 7976 Lot 17 (San Ramon)	42	14	262	1,166	894	237	2,615	1.96
06-142	RA 1135-North Monarch Road, San Ramon	0	23	204	764	726	298	2,015	1.51

Recycled Water Use by Billing Period

Lic#	NAME OF SITE	Jan/Feb	Mar/Apr	May/Jun	Jul/Aug	Sep/Oct	Nov/Dec	Total CCF	Total MG
07-001	Tract 8775- Village 34- San Ramon	0	2	168	457	547	218	1,392	1.04
07-002	Tract 8776- Village 35- San Ramon	0	5	254	554	616	219	1,648	1.23
07-006	Dougherty Hills Dog Park	526	245	250	882	555	192	2,650	1.98
07-007	San Ramon Sports Park- 5261 Sherwood Way, San Ramon	44	189	2,093	4,555	4,442	1,318	12,641	9.46
07-008	Oak Grove at Dublin Ranch (a.k.a) Fairway Family Communi	132	9	628	387	445	275	1,876	1.40
07-009	Dublin Ranch Senior Apartments- Dublin, Ca	122	0	128	205	282	195	932	0.70
07-103	Monarch Park- 8502 N. Monarch Rd., San Ramon	9	105	959	2,139	2,136	820	6,168	4.61
07-104	Dublin Gateway Medical Center- Dublin	113	122	17	658	750	174	1,834	1.37
07-106	DSRSD Maymont Lane Siphon Flushing Station	482	493	379	378	372	353	2,457	1.84
07-107	Arlington Park at Windemere-3735 Knightbridge wy. (San R	0	10	70	672	1,598	616	2,966	2.22
07-108	Fire Truck Park - 2070 Arlington Way (San Ramon)	8	45	260	505	538	139	1,495	1.12
07-109	Dublin Chevrolet, Cadillac- Dublin	421	603	529	832	880	441	3,706	2.77
07-110	RA 1174- Windemere Ph5A Backbone- San Ramon	0	0	614	764	1,160	536	3,074	2.30
07-111	Dublin Honda- Dublin, Ca	0	0	491	1,437	1,694	163	3,785	2.83
07-112	Dublin Ranch Eastern On-Site Drainage- Dublin, Ca	325	467	401	465	553	439	2,650	1.98
07-113	Cambell Green Park (aka Avalon Dublin Station - Demarcus	3	2	228	329	604	299	1,465	1.10
07-114	Area F Medians- Gleason Dr & Grafton for Verona	119	9	158	277	422	195	1,180	0.88
07-115	Dublin Ranch Area F-2 (Verona)- Dublin, Ca	13	350	1,320	2,011	2,219	1,042	6,955	5.20
07-116	Dublin Blvd. -DSRSD Office to East of Clark Ave. (Dublin)	0	0	31	46	86	38	201	0.15
07-117	Dublin Ranch Golf HOA- Dublin, Ca	12	26	1,866	3,154	3,945	1,836	10,839	8.11
07-118	Pinnacle at Dublin Ranch Golf- Dublin, Ca	165	1	272	543	949	389	2,319	1.73
07-119	Ted Fairfield Park- 3400 Antone Way, Dublin	1	71	713	2,187	2,034	411	5,417	4.05
07-120	Lowe's of Dublin- Dublin, Ca	477	91	202	542	646	421	2,379	1.78
07-121	Live Oak Elementary School- 5151 Sherwood Wy, San Ram	11	43	210	723	649	215	1,851	1.38
07-122	Dougherty Valley High School- San Ramon, Ca	260	323	2,482	6,419	5,193	1,574	16,251	12.16
07-123	Dublin Ranch Water Quality Basin- Dublin, Ca	225	423	274	1,769	1,609	1,014	5,314	3.97

Recycled Water Use by Billing Period

Lic#	NAME OF SITE	Jan/Feb	Mar/Apr	May/Jun	Jul/Aug	Sep/Oct	Nov/Dec	Total CCF	Total MG
08-001	Ulfert Shopping Center- Dublin, Ca	87	90	184	97	90	244	792	0.59
08-002	Dublin Civic Center and Library	261	85	1,176	3,005	2,849	974	8,350	6.25
08-003	Ramona Park - 6330 Murdock Way, San Ramon	217	28	636	1,668	1,757	577	4,883	3.65
08-004	Venture Commerce Center- Dublin, Ca	0	30	65	298	518	213	1,124	0.84
08-005	Area F-Park (Piazza Sorrento Park)	3	37	351	799	779	290	2,259	1.69
08-006	Plaza at Gale Ranch- San Ramon, Ca	445	93	944	1,006	1,208	869	4,565	3.41
08-007	RA 1170- Dalton Way (San Ramon)	0	1	64	162	150	55	432	0.32
08-008	Tract 8777- Village 36- San Ramon	1	1	540	1,097	1,240	522	3,401	2.54
08-009	Fallon Middle School- Dublin, Ca	21	37	831	3,692	3,102	1,252	8,935	6.68
08-010	John Green Elementary School- Dublin, Ca	276	42	243	1,124	1,293	348	3,326	2.49
08-011	Tract 8778- Village 37, San Ramon	0	0	195	510	477	193	1,375	1.03
08-012	Neighborhood 07- Tract 8682	3	0	20	157	118	61	359	0.27
08-013	Grafton Station Offsite- Dublin, Ca	41	5	68	177	595	559	1,445	1.08
08-014	BART Parking Structure -Dublin, Ca	175	59	51	251	513	371	1,420	1.06
08-015	Tract 8773- Village 32 N. East Branch Pkwy, Chancery & Ing	24	16	210	500	549	224	1,523	1.14
08-016	Tract 8774- Village 33 Sherwood and Baker Way	0	0	109	334	353	92	888	0.66
08-017	Tract 8927- Village 43- San Ramon	5	4	253	638	627	265	1,792	1.34
08-018	Dublin Sonata-Gleason Median	1	2	196	351	377	94	1,021	0.76
08-019	Monument ID Exhibit-PA 0017 11890 Bollinger Cnyn., San R	0	1	22	70	68	26	187	0.14
08-020	Dublin Neighborhood Square Park (Devaney Park)	0	36	260	787	879	225	2,187	1.64
08-021	RA 1152-Stoneleaf Road- 7489 Stoneleaf Rd. San Ramon	0	4	241	1,360	1,326	430	3,361	2.51
08-022	Tract 8926- Village 42 (East Branch-Arlington, Enfield, Halifax)	6	14	351	984	991	314	2,660	1.99
08-023	Tract 8928- Village 44 E.Branch-Arlington , Montrose-Edge	3	1	108	309	278	117	816	0.61
08-024	RA 1175-Windemere Ph5B Backbone- San Ramon	49	151	1,432	6,903	7,143	2,288	17,966	13.44
08-025	Dougherty Rd.- South of Dublin Blvd.	10	0	314	283	314	175	1,096	0.82
08-026	Dublin Blvd.-Dougherty Rd. to Scarlett Dr.	117	0	46	113	141	47	464	0.35

Recycled Water Use by Billing Period

Lic#	NAME OF SITE	Jan/Feb	Mar/Apr	May/Jun	Jul/Aug	Sep/Oct	Nov/Dec	Total CCF	Total MG
08-027	Dougherty Rd.-median between Dublin Blvd. and Sierra Ln.	0	0	2	26	66	18	112	0.08
08-028	Tract 7282-SONATA- Dublin, Ca	117	8	579	575	1,087	304	2,670	2.00
08-030	Gale Ranch Middle School- Sports field Bollinger & Main Br	35	178	803	2,726	2,695	711	7,148	5.35
08-031	Fallon Village Offsite-Positano Parkway- Dublin, Ca	143	38	1,022	1,331	1,303	1,122	4,959	3.71
08-032	Positano Parkway Median	63	51	167	295	412	373	1,361	1.02
09-001	Tract 8924- Village 40- San Ramon	3	11	261	780	639	291	1,985	1.48
09-002	Elan @ Dublin Station- Dublin, Ca	180	2	372	552	236	110	1,452	1.09
09-003	Tract 8717- Village 25- San Ramon	14	1	380	1,263	1,397	455	3,510	2.63
09-005	Tract 8929- Village 45- San Ramon	2	6	179	588	625	226	1,626	1.22
09-006	Grafton Station Pads B-D, Dublin, Ca	22	5	147	397	478	229	1,278	0.96
09-007	Seville at Gale Ranch -San Ramon, Ca	24	7	65	612	735	360	1,803	1.35
09-008	Neighborhood 06-Streets Tract 8681	0	5	547	1,033	1,053	470	3,108	2.32
09-009	Tract 9142- Village 47- San Ramon, Ca	0	6	454	1,071	1,095	409	3,035	2.27
09-010	Tract 9143- Village 48-San Ramon, Ca	8	2	215	595	778	256	1,854	1.39
09-011	I-580/Fallon Road Interchange	0	0	78	96	87	169	430	0.32
09-012	PM 7893- Demarcus Blvd. & PM 8275 Street Improvement	0	0	117	138	276	94	625	0.47
09-013	South Dougherty Road Widening- San Ramon	1	0	227	1,342	1,554	422	3,546	2.65
09-014	Tract 9144- Village 49 - San Ramon, Ca	0	8	274	704	707	258	1,951	1.46
09-015	PA 19 open space Gale ranch ph3- San Ramon	0	8	34	124	249	105	520	0.39
10-001	Six Pillars Park- PA 025 12219 Windemere Pkwy., San Ramo	37	50	329	946	978	299	2,639	1.97
10-002	Neighborhood 13- Tract 8700- San Ramon, Ca	0	0	120	882	977	369	2,348	1.76
10-003	Tract 8925- Village 41- San Ramon	4	10	204	568	569	211	1,566	1.17
10-004	Dublin Corporate Center (Koll Center)- Dublin, Ca	158	218	819	1,657	1,473	632	4,957	3.71
10-005	RA 1138- South Monarch Rd. -San Ramon	1	1	145	527	714	253	1,641	1.23
10-006	Fallon Sports Park- 4605 Lockhart Street, Dublin	11	788	4,930	6,534	6,848	2,629	21,740	16.26
10-007	Fallon Rd. North Extension	0	0	85	189	401	140	815	0.61

Recycled Water Use by Billing Period

Lic#	NAME OF SITE	Jan/Feb	Mar/Apr	May/Jun	Jul/Aug	Sep/Oct	Nov/Dec	Total CCF	Total MG
10-008	PA0040 Bark and Ride- San Ramon	15	69	446	893	651	235	2,309	1.73
10-009	Neighborhood 05-Subdivision 8699-San Ramon, Ca	8	0	757	1,606	1,561	736	4,668	3.49
11-001	Neighborhood 03- Tract 8970 - San Ramon, Ca	2	8	138	744	771	369	2,032	1.52
11-002	Mosaic Park-PA0021 2651 Cypress., San Ramon	10	28	277	497	570	284	1,666	1.25
11-003	Fallon Gateway Offsite- 2800 Dublin Blvd. Dublin	0	0	34	118	185	57	394	0.29
11-004	Fallon Gateway Retail Center- Target -Dublin, Ca	208	287	1,249	2,336	2,161	1,638	7,879	5.89
11-005	Kolb Elementary School- Dublin, Ca	4	0	211	1,429	1,475	495	3,614	2.70
11-006	RA 1154-South Monarch Rd- San Ramon, Ca	1	1	106	797	778	242	1,925	1.44
11-009	Tract 7651- Sorrento East- Dublin, Ca	88	3	517	687	1,228	892	3,415	2.55
11-010	Tract 8306-Gale Ranch Phase 3-San Ramon, Ca	0	198	795	2,760	2,185	741	6,679	5.00
11-012	Silvera Ranch Phase 4- Tract 7540 Bella Monte Dublin, Ca	74	4	10	531	389	83	1,091	0.82
12-001	Tract 8952- Gale Ranch Phase 3-San Ramon, Ca	1	103	298	957	967	288	2,614	1.96
12-002	Valencia Apartments- San Ramon, Ca	43	17	149	680	679	423	1,991	1.49
12-003	Hacienda Crossings -Dublin, CA	286	399	1,392	3,308	4,387	3,313	13,085	9.79
12-004	BJ's Restaurant and Brewhouse, 3620 Fallon Road, Dublin,	79	59	23	77	64	31	333	0.25
12-005	Jordan Ranch Phase 1 Onsite HOA-Dublin, CA	304	247	262	367	653	663	2,496	1.87
12-006	Jordan Ranch Phase 1 Offsite Medians-Dublin, CA	6	7	49	81	115	47	305	0.23
12-007	Alamo Creek Park- Dublin, Ca	0	0	734	2,163	2,141	965	6,003	4.49
12-008	Stagecoach Park- Dublin, Ca	0	0	48	482	312	81	923	0.69
12-009	Kolb Park- Dublin, Ca	0	0	434	1,726	2,121	1,005	5,286	3.95
12-010	Wells Middle School/Cronin Park- Dublin, Ca	0	0	13	2,615	3,534	1,358	7,520	5.62
12-011	Murray Elementary School- Dublin, Ca	342	11	791	2,929	3,082	1,562	8,717	6.52
12-012	Crossroads@Emerald Vista & Amador Pointe@ Emerald Vis	0	3	170	1,026	1,278	586	3,063	2.29
12-013	Wexford Way and Emerald Vista Apartments-Dublin	0	0	590	1,997	1,528	1,115	5,230	3.91
13-001	Dublin Infiniti (formerly Dublin Kia) - Dublin, Ca	241	0	183	296	316	196	1,232	0.92
13-002	Positano Hills Park- Dublin	1	44	842	1,730	2,100	499	5,216	3.90

Recycled Water Use by Billing Period

Lic#	NAME OF SITE	Jan/Feb	Mar/Apr	May/Jun	Jul/Aug	Sep/Oct	Nov/Dec	Total CCF	Total MG
13-003	Goddard School-San Ramon, Ca	1	0	66	167	132	41	407	0.30
13-004	RA 1248-Gatekeeper Rd.- San Ramon, Ca	1	0	0	69	39	15	124	0.09
13-005	Frederiksen Elementary School- Dublin, Ca	41	3	36	1,959	2,282	37	4,358	3.26
13-006	Springfield Montessori School- Dublin	0	0	82	215	231	105	633	0.47
13-007	Tract 8689- Neighborhood 3A- San Ramon, Ca	108	8	152	466	509	139	1,382	1.03
13-008	Fallon Village Phase 2 Backbone (Village D)- HOA	69	1	223	532	740	565	2,130	1.59
13-009	Pasa Tempo Park-3200 Palermo Way, Dublin	16	79	735	2,170	1,900	610	5,510	4.12
13-010	RA 1246-Barrenstar Way	56	50	108	198	256	160	828	0.62
13-011	Escalada on Brannigan- 10081 Brannigan St. Dublin	1	0	12	13	40	30	96	0.07
13-012	Fallon Village Phase 2 Backbone (Village D)- Median	0	0	35	93	122	53	303	0.23
14-001	Sorrento East - Pedestrian Corridor	66	1	137	135	520	378	1,237	0.93
14-002	Jordan Ranch Phase 4 Central Parkway Medians	2	1	90	128	179	87	487	0.36
14-003	Jordan Ranch Phase 4 Central Parkway HOA	10	7	126	380	825	785	2,133	1.60
14-004	Fallon Village Phase 2 Backbone - GHAD	8	1	9	0	25	207	250	0.19
14-005	Avalon Dublin Station Site C2	7	10	169	411	165	56	818	0.61
14-007	Archstone Apartments	187	166	1,370	2,429	2,429	1,033	7,614	5.70
14-008	Tassajara Road Medians from N. Dublin Ranch Dr. to Dublin	0	170	492	1,362	1,532	571	4,127	3.09
14-009	Dublin High School- 8151 VILLAGE PKWY	104	18	3,005	5,665	5,423	2,087	16,302	12.19
14-010	Hacienda and North Central Parkway Median	96	1	220	444	460	231	1,452	1.09
14-011	Arnold Road & Gleason Dr. Median	0	0	99	81	174	68	422	0.32
14-012	Hacienda & Gleason Dr. Streetscapes and Medians	0	8	469	796	1,115	417	2,805	2.10
14-013	Fallon Crossings Common Area and Vineyard	128	159	356	719	740	284	2,386	1.78
14-014	City of Dublin Public Safety Complex	0	25	230	597	628	93	1,573	1.18
14-015	Dulbin Blvd. NW corner to Myrtle Dr.	0	0	275	564	623	236	1,698	1.27
14-016	Central Parkway Medians- Hacienda-Hibernia Dr.	0	0	45	171	260	82	558	0.42
14-017	Rancho Park- San Ramon	86	208	1,526	5,061	5,975	2,214	15,070	11.27

Recycled Water Use by Billing Period

Lic#	NAME OF SITE	Jan/Feb	Mar/Apr	May/Jun	Jul/Aug	Sep/Oct	Nov/Dec	Total CCF	Total MG
14-018	RA 1168- Dougherty Rd. Gale Ranch Phase 4	0	1	156	192	857	417	1,623	1.21
14-019	Dublin Toyota- Dublin	28	237	1,216	1,985	1,866	816	6,148	4.60
14-020	Amador Valley Blvd. and Dougherty	0	0	186	647	814	645	2,292	1.71
14-021	Dublin Ranch Pedestrian Pathway	0	0	145	577	615	142	1,479	1.11
14-022	Antone Way and Devaney Drive Streetscapes	0	3	386	951	922	275	2,537	1.90
14-023	South Dublin Ranch Dr. Streetscapes and Medians	2	3	581	1,794	2,014	442	4,836	3.62
14-024	Tassajara Rd. East Side Streetscapes from Gleason to N. Du	5	20	211	884	845	244	2,209	1.65
14-025	Amador Lakes Apartments	103	190	1,182	6,990	6,695	2,517	17,677	13.22
14-026	Avalon Dublin Station Site C1	16	126	125	220	611	787	1,885	1.41
14-027	Silvera Ranch Phase 1- Tract 7441	91	55	259	823	1,006	448	2,682	2.01
14-028	Jordan Ranch Phase 4 Trail and Open Space	3	0	96	192	420	206	917	0.69
15-001	Fallon Gateway Chevron CarWash 2760 Dublin Blvd- Irrigati	25	27	41	28	185	67	373	0.28
15-001A	Fallon Gateway Chevron Car Wash 2760 Dublin Blvd - CarW	497	135	415	408	414	266	2,135	1.60
15-002	Parkwood Apartments	69	85	589	1,874	1,991	761	5,369	4.02
15-003	Dublin Fire Station 17- 6200 Madigan St.	0	0	80	114	131	135	460	0.34
15-004	California Highway Patrol- 4999 Gleason Dr. Dublin	0	0	0	62	11	3	76	0.06
15-005	Alameda County G.S.A Animal Shelter- 4595 Gleason Dr.	0	23	99	291	247	239	899	0.67
15-006	Persimmon Place	132	0	307	952	699	201	2,291	1.71
15-007	JM Amador Elementary- 2100 E Cantara Dr. Dublin	104	56	461	1,206	1,164	499	3,490	2.61
15-008	Jordan Ranch Neighborhood 6 Tract 8197 & 8198	2	30	196	532	463	150	1,373	1.03
15-009	Esprit At Dublin Station- 5584 Dublin Blvd.	700	3	28	413	727	409	2,280	1.71
15-010	Alameda County G.S.A K-9 Training Area	11	1	163	661	505	252	1,593	1.19
15-011	Alameda County G.S.A Public Works	192	0	0	27	0	20	239	0.18
15-012	Alameda County G.S.A Sewer Screw Washdown	95	113	94	119	95	114	630	0.47
15-013	Alameda County G.S.A Santa Rita Jail	500	0	1,801	5,862	6,217	1,313	15,693	11.74
15-014	Dublin Senior Center	1	26	176	203	170	93	669	0.50

Recycled Water Use by Billing Period

Lic#	NAME OF SITE	Jan/Feb	Mar/Apr	May/Jun	Jul/Aug	Sep/Oct	Nov/Dec	Total CCF	Total MG
15-015	Amador Valley Blvd. Median- Village Parkway to San Ramo	15	37	26	24	35	24	161	0.12
15-016	Jordan Ranch Phase 2 Neighborhood 3-Capri Tract 8179	17	22	332	717	869	999	2,956	2.21
15-017	The Church of Jesus Christ of Latter-Day Saints (Mormon Ch	24	0	0	314	372	127	837	0.63
15-018	Dublin Fire Station 16	0	25	108	47	89	64	333	0.25
15-019	Jordan Ranch Phase 4- Trio Tract 8154, 8155	168	46	147	305	443	330	1,439	1.08
15-020	Dublin Historic Park	14	1	92	155	1,241	445	1,948	1.46
15-021	Dublin Tech Center	18	35	21	38	159	99	370	0.28
15-022	Silvergate Drive Medians- 11471 Silvergate Dr.	1	2	32	98	196	92	421	0.31
15-023	McNamara's Steak House	0	20	0	37	399	109	565	0.42
15-024	Dublin Pioneer Cemetery	24	166	29	14	261	136	630	0.47
15-025	Shell Gas Station	8	23	0	0	50	14	95	0.07
15-026	Dublin Blvd. Associates	0	44	70	439	436	285	1,274	0.95
15-027	Dublin Chevron	0	1	7	36	39	15	98	0.07
15-028	Mape Park	4	0	348	699	756	276	2,083	1.56
15-029	Frankie Johnny & Luigi Too	0	116	128	60	60	111	475	0.36
15-030	St. Raymond Church-11555 Shannon Ave.	0	107	207	304	547	685	1,850	1.38
15-031	Hexcel- 11711 Dublin Blvd.	57	79	128	330	406	148	1,148	0.86
15-032	San Ramon Road Median- 7100 San Ramon Rd.	0	2	52	67	70	43	234	0.18
15-033	Tract 8171-Sub Area 3 Dublin Ranch Offsite	4	11	84	245	372	310	1,026	0.77
15-034	Tract 8171-Sub Area 3 Dublin Ranch Onsite	0	57	308	945	765	288	2,363	1.77
16-001	Challenge Dairy- Heritage Park Office Building	1	87	113	118	103	95	517	0.39
16-002	San Ramon Road Median- 11989 Dublin Blvd.	0	8	41	55	89	58	251	0.19
16-003	Dolan park	0	17	399	1,463	1,846	548	4,273	3.20
16-004	Neilson Elementary School-7500 Amarillo Rd.	0	67	110	2,154	2,180	745	5,256	3.93
16-005	Dublin Elementary School- 7997 Vomac	0	533	1,438	2,240	2,490	1,087	7,788	5.83
16-006	Tract 7515 Wallis Road Backbone	0	8	476	1,605	2,972	2,003	7,064	5.28

Recycled Water Use by Billing Period

Lic#	NAME OF SITE	Jan/Feb	Mar/Apr	May/Jun	Jul/Aug	Sep/Oct	Nov/Dec	Total CCF	Total MG
16-007	Terrace Ridge- T7950 (6541 Terrace Ridge Ct.)	0	0	79	351	329	268	1,027	0.77
16-008	Church of Christ- 11873 Dublin Blvd.	0	0	23	55	169	144	391	0.29
16-009	Heritage Park- Residential	0	0	52	304	445	209	1,010	0.76
16-010	Kildara Apartments	0	0	581	1,484	1,640	502	4,207	3.15
16-011	Dublin Place Shopping Center- Target	0	0	119	443	458	396	1,416	1.06
16-012	Town & Country Center- Lamp Plus Plaza	0	0	19	251	285	133	688	0.51
16-013	Shannon Park- 11600 Shannon Ave.	0	14	735	1,471	1,818	580	4,618	3.45
16-014	Shannon Community Center- 11600 Shannon Ave.	0	33	257	150	80	38	558	0.42
16-015	Public Storage-7420 San Ramon Rd.	0	0	4	40	142	129	315	0.24
16-016	Dublin Executive Center-11501 Dublin Blvd.	0	0	109	200	216	225	750	0.56
16-017	San Ramon Road Median- W.Vomac to Silvergate Dr.	0	119	335	502	551	326	1,833	1.37
16-018	San Ramon Road Median- Vomac to Alcosta	0	0	4	316	791	499	1,610	1.20
16-019	Amador Valley Blvd. Median- Village Pkwy to Stagecoach	0	0	0	0	197	186	383	0.29
16-020	Bella Vista Elementary School (Dougherty Valley Elementar	0	0	0	14	1,071	717	1,802	1.35
16-021	Dublin Valero - 7840 Amador Valley Blvd.	0	12	16	22	89	26	165	0.12
16-022	Dublin Transit Site A1- Tribeca	0	0	0	0	0	33	33	0.02
16-023	Walgreens- 11440 Windemere Pkwy	0	0	0	21	52	34	107	0.08
16-024	RA 1210 Dougherty Rd. Gale Ranch Ph4	0	0	0	0	0	216	216	0.16
constr	Temporary Construction Meters using RW - NOT LICENSED	2,125	1,135	4,441	9,615	9,522	5,565	32,403	24.24
		17,253	18,515	132,744	352,798	373,942	155,277	1,050,529	785.80

Recycled Water Use by Billing Period



Dublin San Ramon Services District

Water, wastewater, recycled water

Clean Water Program

Summary of Recycled Water Usage for Calendar Year 2016

Application Type	No. of Sites	Area (Acres)	Amount Distributed (MG)	% of Total Reuse Flow
<u>LANDSCAPE IRRIGATION</u>				
Commercial/Other Greenbelts	89	162.64	164.54	21.25%
Golf Course	1	48.21	57.51	7.43%
Homeowners Association	16	45.34	32.78	4.23%
Park/Open Space	42	200.07	172.13	22.23%
Schools	21	114.66	93.32	12.05%
Streetscape/Median Greenbelts	130	265.50	239.68	30.96%
Residential Fill Station	3,964	00.00	14.26	1.85%
	4,263*	836.42	774.22	100.00%
<u>INDUSTRIAL</u>				
Commercial Uses	1	00.00	1.60	3.92%
Temporary Construction Meters	75	00.00	24.24	59.35%
Commercial Fill Station	74	00.00	15.00	36.73%
	150	00.00	40.84	100.00%

*Includes only sites with consumption in 2016.



**Dublin San Ramon
Services District**

Water, wastewater, recycled water

Clean Water Program

List of New Authorized Recycled Water Users Licensed in 2016

Lic#	NAME OF SITE	CUSTOMER	APPLICATION TYPE	SOURCE	PROJECTED ANNUAL FLOW (AF/YR)
16-001	Challenge Dairy- Heritage Park Office Building	Bates Stringer Challenge LLC	Commercial/Other Greenbelts	DSRSD	0.32
16-002	San Ramon Road Median- 11989 Dublin Blvd.	City of Dublin	Streetscape/Median Greenbelts	DSRSD	0.32
16-003	Dolan park	City of Dublin	Park/OpenSpace	DSRSD	12.00
16-004	Neilson Elementary School- 7500 Amarillo Rd.	Dublin Unified School District	School	DSRSD	13.80
16-005	Dublin Elementary School- 7997 Vomac	Dublin Unified School District	School	DSRSD	19.90
16-006	Tract 7515 Wallis Road Backbone	Development Solutions WR LLC	Streetscape/Median Greenbelts	DSRSD	4.70
16-007	Terrace Ridge- T7950 (6541 Terrace Ridge Ct.)	William Lynn Homes, Inc.	Homeowners Association	DSRSD	
16-008	Church of Christ- 11873 Dublin Blvd.	Church of Christ	Commercial/Other Greenbelts	DSRSD	0.60
16-009	Heritage Park- Residential	Pulte Group	Homeowners Association	DSRSD	2.04
16-010	Kildara Apartments	Kildara Homeowners Association	Homeowners Association	DSRSD	10.00
16-011	Dublin Place Shopping Center- Target	ASVRF Dublin Place, LLC c/o Colliers International Real Estate Management Services	Commercial/Other Greenbelts	DSRSD	4.00
16-012	Town & Country Center- Lamp Plus Plaza	Chiu Family Trust	Commercial/Other Greenbelts	DSRSD	4.90
16-013	Shannon Park- 11600 Shannon Ave.	City of Dublin	Park/OpenSpace	DSRSD	11.50
16-014	Shannon Community Center- 11600 Shannon Ave.	City of Dublin	Commercial/Other Greenbelts	DSRSD	2.00
16-015	Public Storage-7420 San Ramon Rd.	Public Storage	Commercial/Other Greenbelts	DSRSD	1.80
16-016	Dublin Executive Center-11501 Dublin Blvd.	Ring Properties	Commercial/Other Greenbelts	DSRSD	1.40

Lic#	NAME OF SITE	CUSTOMER	APPLICATION TYPE	SOURCE	PROJECTED ANNUAL FLOW (AF/YR)
16-017	San Ramon Road Median- W.Vomac to Silvergate Dr.	City of Dublin	Streetscape/Median Greenbelts	DSRSD	5.00
16-018	San Ramon Road Median- Vomac to Alcosa	City of Dublin	Streetscape/Median Greenbelts	DSRSD	6.00
16-019	Amador Valley Blvd. Median- Village Pkwy to Stagecoach	City of Dublin	Streetscape/Median Greenbelts	DSRSD	4.81
16-020	Bella Vista Elementary School (Dougherty Valley Elementary School)	SRV/USD	School	DSRSD	12.24
16-021	Dublin Valero - 7840 Amador Valley Blvd.	Dublin Valero Inc.	Commercial/Other Greenbelts	DSRSD	0.03
16-022	Dublin Transit Site A1-Tribeca	Pulte Group	Homeowners Association	DSRSD	
16-023	Walgreens- 11440 Windemere Pkwy	Walgreens	Commercial/Other Greenbelts	DSRSD	0.25
16-024	RA 1210 Dougherty Rd. Gale Ranch Ph4	Toll Brothers	Streetscape/Median Greenbelts	DSRSD	4.72
16-025	RA 1208 Dougherty Rd. Gale Ranch Ph4	Toll Brothers	Streetscape/Median Greenbelts	DSRSD	1.29
Total Projected Annual Flow (AF/Yr)					123.62

Attachment D - Table 4
Dublin San Ramon Services District
Results from User's Recycled Water Self-Monitoring Reports

Standard Observations	Sites reported violations	When deficiencies were corrected	How deficiencies were corrected
a. Evidence of runoff of recycled water from the site	29	After and During Self Monitoring Inspections	Adjust nozzles, Replace broken heads
b. Odor of wastewater origin from irrigation site	0	No correction was done. Odor Dissipated.	Odor is probably due to system being off for a long period of time prior to inspection
c. Evidence of ponding of recycled water, and evidence of mosquitoes breeding within the irrigation area due to ponded water	2	After and During Self Monitoring Inspections	Adjusted irrigation schedule, Replaced with smaller emitters, installed drainage area.
d. Warning signs properly posted to inform public that irrigation or water use is recycled water and is not safe for drinking	3	After and During Self Monitoring Inspections	New signs were purchased and installed according to standard.
e. Evidence of leaks or breaks in the irrigation system pipelines or tubing	11	After and During Self Monitoring Inspections	Repaired main line breaks, leaks and pipelines as see fit.
f. Evidence of broken, or otherwise faulty drip irrigation system emitters or spray irrigation sprinklers	68	After and During Self Monitoring Inspections	Replaced broken heads and emitters.
g. Evidence of overflows, leaks, erosion of dikes, etc. of storage pond(s) or impoundment(s)	0	No correction was done.	No correction was done.

Attachment D - Table 5
Summary of Violations Found During Site Inspections and Corrective Action Taken

LicenseNo	RecycledWaterUsers	DateInsp	Violation	Site/Application	CorrectiveActions
12-007	Alamo Creek Park	7/22/2016	2, 4	Park	Adjust overspray and runoff, repair breaks and leaks
14-014	City of Dublin Public Safety Complex	7/29/2016	4, 5	Commercial/other greenbelt	Adjust overspray and runoff, repair breaks and leaks
08-002	Dublin Civic Center and Library	7/29/2016	2, 4, 5	Commercial/other greenbelt	Adjust overspray and runoff, repair breaks and leaks
02-110	Dublin Sports Ground	8/19/2016	2, 4, 5	Park	Adjust overspray and runoff, repair breaks and leaks
06-137	Diablo Valley College	8/26/2016	2	School	Adjust overspray and runoff
06-133	Dougherty Elementary School	8/31/2016	2, 4, 5	School	Adjust overspray and runoff, repair breaks/leaks
07-108	Fire Truck Park - Windemere (San Ramon)	8/31/2016	3	Park	adjust overspray
11-005	Kolb Elementary School	8/31/2016	5	School	adjust overspray to reduce runoff
05-115	Limerick Park (a.k.a Creekview Park)	8/31/2016	4, 5	Park	repair breaks/leaks, adjust overspray
07-103	Monarch Park- 8502 N. Monarch Rd. San Ramon	8/31/2016	3, 4, 5	Park	adjust rotors to divert overspray, repair breaks/leaks, minimize runoff
06-100	Sherwood Pocket Park	8/31/2016	4, 5	Park	repair breaks/leaks, adjust overspray
10-001	Six Pillars Park- PA025	8/31/2016	5	Park	adjust overspray
06-102	Dougherty Valley Community Center & Library	9/1/2016	4, 5	Commercial/other greenbelt	repair breaks/leaks, adjust overspray
04-126	East Branch Park	9/1/2016	4, 5	Park	repair breaks/leaks, adjust overspray
11-001	Neighborhood 03- Tract 8970	9/6/2016	4	Commercial/other greenbelt	repair breaks/leaks
11-011	RA 1245- Bayview Lane	9/6/2016	4	streetscape/median	repair breaks/leaks
16-005	Dublin Elementary School- 7997 Vornac	9/9/2016	3, 4	school	adjust overspray, repair breaks/leaks
12-011	Murray Elementary School	9/9/2016	4, 5	School	adjust overspray, repair breaks/leaks
14-018	RA 1168- Dougherty Rd. Gale Ranch Phase 4	9/9/2016	4	streetscape/median	repair breaks/leaks
08-014	BART Parking Structure	9/13/2016	no violation	Commercial/othr greenbelt	
08-010	John Green Elementary School	9/14/2016	2, 4, 5	School	Adjust overspray and runoff, repair breaks/leaks
06-131	Creekside Park PA 0010	9/20/2016	2, 3, 4	park	adjust overspray, repair breaks/leaks
11-002	Mosaic Park- PA0021	9/20/2016	4, 5	Park	adjust overspray, repair breaks/leaks
05-113	Valley View Park- Monarch & Star Jasmine, San Ramon	9/20/2016	4	park	repair breaks/leaks
08-004	Ventru Commerce Center	9/20/2016	4, 5	Commercial/other greenbelt	repair breaks/leaks, adjust overspray and runoff
15-015	Amador Valley Blvd. Median	9/21/2016	4	Streetscape/median	reapair breaks/leaks, replace missing signs
04-130	Dublin Ranch Golf Course	9/21/2016	5	Golf Course	adjust overspray
09-007	Seville at Gale Ranch- San Ramon	9/21/2016	5	Commercial/other greenbelt	adjust overspray
12-008	Stagecoach Park	9/21/2016	4, 5	Park	adjust overspray, repair breaks/leaks
12-002	Valencia Apartments- San Ramon, Ca	9/21/2016	5	Commercial/other greenbelt	adjust overspray
14-027	Silvera Ranch Phase 1	9/22/2016	4, 5	Commercial/other greenbelt	repair breaks/leaks, adjust overspray and runoff
07-122	Dougherty Valley High School	9/23/2016	4	School	repair breaks/leaks
08-009	Fallon Middle School	9/28/2016	4, 5	School	repair breaks/leaks, adjust overspray

Attachment D - Table 5
Summary of Violations Found During Site Inspections and Corrective Action Taken

11-012	Silvera Ranch Phase 4- Dublin	9/28/2016	4, 5	Commercial/other greenbelt	repair breaks/leaks, adjust overspray and runoff
12-013	Wexford Way and Emerald Vista Apartments	9/28/2016	4	Commercial/other greenbelt	repair breaks/leaks
02-113	Tri-Valley SPCA	9/29/2016	4, 5	Commercial/other greenbelt	repair breaks/leaks, adjust overspray and runoff
14-013	Fallon Crossings Commons & Vineyards	9/30/2016	4, 5	HOA	adjust runoff, repair breaks/leaks
13-005	Frederiksen Elementary School	10/5/2016	4	School	repair breaks/leaks
16-004	Nielson Elementary School	10/5/2016	5	School	adjust overspray
14-017	Rancho Park- San Ramon	10/6/2016	4, 5	Park	repair breaks/leaks, adjust overspray
14-019	Dublin Toyota	10/7/2016	5	Commercial/other greenbelt	adjust overspray
14-009	Dublin High School	10/10/2016	3, 4	School	adjust direct overspray, repair breaks/leaks
06-101	Canyon Oaks	10/19/2016	4, 5	Commercial/other greenbelt	repair breaks/leaks, adjust overspray
06-110	Mill Creek Apartments	10/19/2016	4, 5	Commercial/other greenbelt	repair breaks/leaks, adjust overspray
05-114	Bank of America	10/21/2016	5	Commercial/other greenbelt	adjust overspray
	Violation Code:				
	1: signs/valve tags missing				
	2: ponding/overspray				
	3: direct spray				
	4: leaks/breaks				
	5: runoff				
	6: cross connection				

ATTACHMENT F

EBMUD Recycled Water Customer Information and Compliance Summary

- Attachment F Table 1 - Tabular Summary of Recycled Water Use by Billing Period by Each User
- Attachment F Table 2 – Results from Users’ Self-Monitoring Reports
- Attachment F Table 3 – Summary of Violations Found During Site Inspections and Corrective Actions Taken

San Ramon Valley Recycled Water Program
2016 Monthly Recycled Water Use
EBMUD Irrigation Customers

No.	Customer Name	Service Address	Old Legacy Account No.	New CS Account No.	Pressure Zone	In-Service Date	Jan	Feb	Mar	April	May	June	July	Aug	Sept	Oct	Nov	Dec	Annual Total (CCF)	Annual Total (MG)
1	Country Club Village Shopping Center (ROIC CA)	9142 Alcosta Blvd.	5057570	34031467	R100	4/10/06	42	38	82	117	252	379	356	326	261	231	67	70	2,221	1.66
2	Easthampton HOA	2 Elmwood	5057677	56388400	R100	4/10/06	0	0	23	31	101	102	141	136	115	92	1	1	743	0.56
3	The Seasons Apartments	9003 Kimball Ave.	5059280	56567100	R100	8/4/06	1	0	221	414	649	857	871	859	660	563	164	36	5,295	3.96
4	Villa San Ramon	9199 Fircrest Lane	5058920	56519200	R100	11/3/06	18	17	31	34	74	74	100	101	99	83	15	13	659	0.49
5	Vintner HOA	9005 Alcosta Blvd.	5060982	56751200	R100	5/2/07	38	54	76	90	336	576	588	582	445	378	110	42	3,315	2.48
6	San Ramon, City of - Inverness Park	555 Burns Cir.	5058851	56511800	R100	3/9/06	0	0	0	3	23	24	39	95	251	182	20	21	658	0.49
7	San Ramon, City of - Inverness Park	625 Lomond Cir.	5058852	56511900	R100	3/9/06	15	36	249	288	615	620	873	774	472	341	31	29	4,343	3.25
8	San Ramon, City of - Inverness Park	2961 Ascot Dr.	5058853	56512000	R100	3/9/06	2	4	28	24	6	5	0	0	0	0	0	0	69	0.05
9	San Ramon, City of - Greenbelt	3022 Summit View Dr.	5057567	56376600	R100	3/16/06	0	0	17	23	85	93	141	151	75	78	3	0	666	0.50
10	San Ramon, City of - Greenbelt	4000 Summit View Dr.	5057566	56376500	R100	3/16/06	4	5	13	16	125	142	173	180	95	98	3	0	854	0.64
11	San Ramon, City of - Greenbelt	465 Old Ranch Rd.	5057568	56376700	R100	3/16/06	0	0	20	26	120	134	203	218	93	96	3	0	913	0.68
12	San Ramon, City of - Greenbelt	700 Stoney Creek Dr.	5059188	56554800	R100	3/16/06	10	11	30	35	162	180	250	265	131	136	4	0	1,214	0.91
13	San Ramon, City of - Greenbelt	1042 Stoney Creek Dr.	5057565	56376400	R100	3/16/06	2	0	4	5	67	76	96	100	44	46	8	8	456	0.34
14	San Ramon, City of - Greenbelt	296 Shavano Way	5059276	56566700	R100	4/10/06	0	0	4	24	204	214	375	337	200	161	4	3	1,526	1.14
15	San Ramon, City of - Greenbelt	9098 Alcosta Blvd.	5059277	56566800	R100	3/15/06	0	0	18	33	76	117	107	95	77	68	20	0	611	0.46
16	San Ramon, City of - Greenbelt	9275 Alcosta Blvd.	5059278	56566900	R100	8/3/06	14	11	46	76	179	277	339	382	248	173	50	0	1,795	1.34
17	San Ramon, City of - Greenbelt	9101 Alcosta Blvd.	5060006	56646000	R100	8/24/06	11	10	20	29	69	106	139	162	99	63	18	3	729	0.55
18	San Ramon, City of - Landscape Feature	3200 Montevideo Dr.	5060906	56742100	R100	11/8/06	0	0	0	1	1	7	7	6	6	4	0	0	36	0.03
19	San Ramon, City of - Landscape Feature	3201 Montevideo Dr.	5060905	56742000	R100	11/8/06	0	0	0	0	1	2	3	2	2	3	0	0	16	0.01
20	San Ramon, City of - Landscape Feature	3351 Bollinger Canyon Rd.	5061113	56762000	R100	2/20/07	2	19	23	15	15	14	15	16	16	3	2	0	140	0.10
21	San Ramon, City of - Landscape Feature	581 Fallen Leaf Circle	6004065	06450873	R100	11/22/11	10	9	9	8	23	64	73	90	67	26	15	0	394	0.29
22	San Ramon, City of - Landscape Feature	9730 Davona Dr.	6005500	61026145	R100	6/27/12	0	0	0	9	9	21	21	17	14	0	0	0	91	0.07
23	San Ramon, City of - Village Green Park	232 Triana Way	5058922	56519400	R100	3/16/06	8	8	204	254	726	722	929	863	615	499	32	29	4,889	3.66
24	San Ramon, City of - Athan Downs Park	2964 Ascot Dr.	5060907	56742200	R100	3/7/07	50	111	719	856	2,505	2,531	3,094	3,094	2,909	435	421	na	16,725	12.51
25	San Ramon, City of - Boone Acres Park	9714 Davona Dr.	5058923	56519500	R100	9/12/07	1	28	42	358	370	885	903	726	651	194	182	16	4,356	3.26
26	San Ramon, City of - Senior Center Park & Gardens	9300 Alcosta Blvd.	5059279	56567000	R100	6/15/09	24	30	82	125	229	323	535	701	426	266	77	18	2,836	2.12
27	San Ramon Valley USD Montevideo School	13000 Broadmoor	5059286	56567600	R100	4/12/06	6	16	109	155	494	517	901	706	578	145	140	na	3,767	2.82
28	San Ramon Valley USD Country Club School	7534 Blue Fox	5059285	56567500	R100	6/9/06	1	15	22	405	518	1,059	1,238	1,029	974	221	132	na	5,614	4.20
29	San Ramon Valley USD CA High School	9870 Broadmoor	5060005	56645900	R100	8/31/06	106	99	235	234	1,147	1,274	2,117	2,117	1,988	246	238	na	9,801	7.33
30	San Ramon Valley USD Pine Valley Middle School	3000 Pine Valley Road	5065372	57199500	R100	4/22/11	17	121	250	726	944	1,693	1,831	2,254	1,730	505	358	0	10,429	7.80
31	San Ramon Valley USD Walt Disney Elementary School	3250 Pine Valley Road	5060550	56700600	R100	5/16/11	0	5	50	228	318	639	701	870	661	170	120	0	3,762	2.81
32	San Ramon Valley USD Neil Armstrong Elementary School	2849 Calais Dr.	5065419	57204300	R100	6/11/11	91	85	170	173	617	607	925	850	445	372	9	9	4,353	3.26
R100 Subtotal							473	732	2,797	4,815	11,060	14,334	18,084	18,104	14,447	5,878	2,254	298	93,276	69.77
R200 Subtotal																				
1	San Ramon Valley USD Coyote Creek School	8700 N Gale Ridge Rd.	5058597	56485700	R200	1/16/06	35	67	162	341	477	651	844	1156	809	284	146	2	4,974	3.72
2	Cedar Bridge HOA	8850 N Gale Ridge Rd.	5057569	56376800	R200	2/15/06	0	0	17	50	102	175	186	197	146	72	37	0	982	0.73
3	San Ramon, City of - Greenbelt	8709 N Gale Ridge Rd.	5058598	56485800	R200	2/9/06	0	0	26	76	193	362	355	320	234	106	55	0	1,727	1.29
4	San Ramon, City of - Greenbelt	8901 N Gale Ridge Rd.	5058599	56485900	R200	2/9/06	0	0	5	14	47	97	104	112	83	41	21	0		

San Ramon Valley Recycled Water Program
 EBMUD Recycled Water Use Customers
 Irrigation Site Location

Service	Site Name	Service Address	In-Service Date	Date of Annual Inspection	Observations From Annual Inspection	
5057569	Cedar Bridge HOA	8850 N Gale Ridge Rd.	2/15/06	11/4/2016*	Replace box	
5057677	East Hampton HOA	2 Elmwood	4/10/06	9/28/2016*	Missing labels/tags, trim	
5058599	San Ramon, City of - greenbelt	8901 N Gale Ridge Rd.	2/9/06	11/4/2016*	Missing signs	1/4/17-corrected
5058600	San Ramon, City of - greenbelt	8988 N Gale Ridge Rd.	2/15/06	11/8/2016*	Failed, did not complete corrections, sent 48 hr notice	
5058601	San Ramon, City of - greenbelt	8998 N Gale Ridge Rd.	2/15/06	11/8/2016*	Missing signs, trim	
5059597	San Ramon, City of - greenbelt	10501 Bollinger Canyon Rd.	5/24/06	11/8/2016*	Failed, did not complete corrections, sent 48 hr notice	1/4/17-corrected
5059276	San Ramon, City of - greenbelt	296 Shavano	4/10/06	11/8/2016*	Check for leaks, needs labels	
5059277	San Ramon, City of - greenbelt	9098 Alcosta	3/15/06	9/8/2016*	Failed, did not complete corrections, sent 48 hr notice	11/29/16-corrected
5059278	San Ramon, City of - greenbelt	9275 Alcosta	3/21/06	9/14/2016*	Missing sign, tag/label, boken sprinklers, trim shrubs	
5060006	San Ramon, City of - greenbelt	9101 Alcosta	8/24/06	9/28/2016*	Failed, did not complete corrections 11/15/16 - need 48 hr notice	12/7/16-corrected
5057567	San Ramon, City of - greenbelt	3022 Summit View	3/16/06	6/18/2016	OK	
5057566	San Ramon, City of - greenbelt	4000 Summit View Dr.	3/16/06	6/18/2016	OK	
5059188	San Ramon, City of - greenbelt	700 Stoney Creek	3/16/06	11/8/2016*	Replace box	
5057565	San Ramon, City of - greenbelt	1042 Stoney Creek	3/16/06	6/18/2016	OK	
5057568	San Ramon, City of - greenbelt	465 Old Ranch Rd.	3/16/06	6/18/2016*	Can't locate 2 valves	
5060906	San Ramon, City of - greenbelt	3200 Montevideo Drive	11/8/06	9/28/2016	OK	
5060905	San Ramon, City of - greenbelt	3201 Montevideo Drive	11/8/06	9/28/2016	OK	
5061113	San Ramon, City of - greenbelt	3351 Bollinger Canyon Rd.	2/20/07	11/14/2016	OK	
5060907	San Ramon, City of - Athan Downs Park	2964 Ascot Dr.	3/7/07	9/27/2016*	Labels, pending	
5058923	San Ramon, City of - Boone Acres Park	9714 Davona Dr.	9/12/07	9/30/2016*	Failed, did not complete corrections, sent 48 hr notice	11/15/16 - corrected
5058853		2961 Ascot Dr.	3/9/06	9/28/2016	OK	
5058851	San Ramon, City of - Inverness Park	555 Burns Cir.	3/9/06	9/28/2016*	Missing tag/label, broken sprinkler	
5058852		625 Lemond Cir.	3/9/06	9/28/2016*	Missing tags/labels, replace QC	
5059279	San Ramon, City of - Sr Center Park & Grdns	9300 Alcosta Blvd.	6/15/09	11/7/2016*	Failed, did not complete corrections, sent 48 hr notice	1/3/17 - corrected
5058922	San Ramon, City of - Village Green Park	232 Triana Way	3/16/06	9/13/2016*	Missing signs, pending, broken sprinkler	
5058921	Shapell Industries - Driving Range	9021 S Gale Ridge Rd.	7/6/06	11/11/2016*	Missing tags/labels, pending, needs vacuum beakers	
5058850	Shapell Industries - Golf Course Clubhouse	9002 S Gale Ridge Rd.	2/15/06	11/16/2016*	Failed, did not complete corrections, sent 48 hr notice 48 hr 1/11/17	1/23/17-corrected
5058598	San Ramon, City of - Shapell Greenbelt	8709 N Gale Ridge Rd.	2/9/06	11/28/2016*	Failed, did not complete corrections, sent 48 hr notice	1/4/17-corrected
5059621	Shapell Industries - Golf Course	10503 Bollinger Canyon Rd.	12/12/06	11/28/2016	Missing signs, pending, missing labels/covers	
5059629	Shapell Industries - Golf Course	10505 Bollinger Canyon Rd.	12/12/06	11/29/2016	Missing signs, pending, missing labels/covers	
5060005	SRVUSD - California High School	9870 Broadmoor Dr.	8/31/06	11/2/2016*	Missing tags/labels, sign, pending, old qc; 48 hr 1/11/17	
5059265	SRVUSD/City of SR - Country Club Sch/Park	7534 Blue Fox Way	6/9/06	10/5/2016*	Failed, did not complete corrections 11/15/16 - sent 48 hr notice	12/19/16 - corrected
5058997	SRVUSD/City of SR - Coyote Creek School/Park	8700 N Gale Ridge Rd.	1/16/06	11/2/2016*	Pending, missing/broken signs	
5059286	SRVUSD/City of SR - Montevideo Sch/Park	13000 Broadmoor Dr.	4/12/06	10/18/2016*	Failed, did not complete corrections, sent 48 hr notice	1/3/17 - corrected
5057570	ROIC California, LLC	9142 Alcosta Blvd.	4/10/06	9/16/2016*	Missing sign, missing cover/boxes	
5059280	The Seasons Apartments	9003 Kimball Ave.	8/4/06	11/7/2016*	Needs vb/tags/labels, pending	
5058920	Vintage Senior Mgmt	9199 Fircrest Lane	11/3/06	12/9/2016*	Trim around signs/boxes, replace missing box.	
5060982	Vintner HOA	9005 Alcosta Blvd.	5/2/07	9/28/2016*	Failed, did not complete corrections 11/15/16 - corrected	11/15/16 - corrected
5060004	Chevron	6001 Bollinger Canyon Rd.	8/1/10	11/2/2016*	Ponding, need tags, old stye quick couplers	
5060550	SRVUSD/City of SR-Walt Disney Sch/Park	3250 Pine Valley Rd.	5/16/11	10/5/2016*	Failed, did not complete corrections 11/15/16 - need 48 hr notice	1/3/17 - corrected
5065372	SRVUSD/City of SR-Pine Valley Mid Sch/Park	3000 Pine Valley Rd.	4/22/11	10/6/2015*	Missing signs, tags/labels, trim, sent 48 hr notice	12/19/16 - corrected
5065419	SRVUSD/City of SR-Neil Armstrong Sch/Park	2849 Calais Dr.	5/14/11	10/6/2016*	Failed, did not complete corrections, sent 48 hr notice	12/16/16-corrected
6450873	San Ramon, City of - greenbelt	581 Fallen Leaf Cir.	11/22/11	11/8/2016*	Missing sign, label	
61026145	San Ramon, City of - greenbelt	9730 Davona Dr.	8/6/12	11/9/2016*	Failed, did not complete corrections 11/15/16 - need 48 hr notice	
591369	San Ramon, City of - Streetscape	3073 N Chanterella Dr	12/3/13	11/8/2016*	Ponding, tags/labels	
91976925	San Ramon, City of - Windy Hills Park & Street	1236 Ustilago Dr	12/3/13	11/8/2016*	Needs labels	
5058600	San Ramon, City of - greenbelt	8988 N Gale Ridge Rd.	2/15/06	11/9/2016*	Failed, did not complete corrections, sent 48 hr notice	
6025460	SRVUSD/City of SR - Iron Horse Mid Sch/Park	12601 Alcosta Blvd.				

*Customer has been notified to correct the problem.

**This site has been in-service for less than 1 year. The annual inspection will be scheduled to occur within 1 year of the in-service day.

Inspections included the following:

Evidence of recycled water escaping any irrigation site and/or surface impoundment through surface runoff or airborne spray.

Odors of recycled water origin. Note source, characterization, and travel distance of odors.

Evidence of prolonged ponding of recycled water in the irrigation site as a result of excessive spray.

Adequate posting of warning signs or notices to inform the public of the use of recycled water for irrigation.

Evidence of leaks or breaks in the irrigation system pipelines, tubing, drip irrigation, sprinkler emitters, or in the recycled water storage impoundment.

Maintenance of the required buffer distance from areas to be protected.

Evidence of direct spraying of recycled water on people, dwellings, food-handling facilities, or drinking fountains.

San Ramon Valley Recycled Water Program
Self-Monitoring Report Compliance
Irrigation Customers
2016

Customer	Sites	Address	Street	Site Supervisor	Jan 1 - Jun 30	SMR Comments & Repairs	July 1 - Dec 31	SMR Comments & Repairs
City of San Ramon	Greenbelt - Belle Meade	9098	Alcosta Boulevard	Sean Anderson	X		X	
City of San Ramon	Greenbelt - Village Parkway	9101	Alcosta Boulevard	Sean Anderson	X		X	
City of San Ramon	Greenbelt - Stage Coach at Alcosta	9275	Alcosta Boulevard	Sean Anderson	X		X	
City of San Ramon	Greenbelt - Bollinger Canyon Road	10501	Bollinger Canyon Rd	Sean Anderson	X		X	
City of San Ramon	Greenbelt - N. Chantarella	3073	Chantarella Drive	Sean Anderson	X		X	
City of San Ramon	Greenbelt	581	Fallen Leaf Circle	Sean Anderson	X		X	
City of San Ramon	Greenbelt	8709	N. Gale Ridge Road	Sean Anderson	X		X	
City of San Ramon	Greenbelt	8901	N. Gale Ridge Road	Sean Anderson	X		X	
City of San Ramon	Greenbelt	8988	N. Gale Ridge Road	Sean Anderson	X		X	
City of San Ramon	Greenbelt	8998	N. Gale Ridge Road	Sean Anderson	X		X	
City of San Ramon	Greenbelt - Bent Creek 1 & 2	465	Old Ranch Road	Sean Anderson	X		X	
City of San Ramon	Greenbelt - Shavano 1 & 2	296	Shavano Way	Sean Anderson	X		X	
City of San Ramon	Greenbelt	700	Stoney Creek Drive	Sean Anderson	X		X	
City of San Ramon	Greenbelt	1042	Stoney Creek Drive	Sean Anderson	X		X	
City of San Ramon	Greenbelt	3022	Summit View Drive	Sean Anderson	X		X	
City of San Ramon	Greenbelt	4000	Summit View Drive	Sean Anderson	X		X	
City of San Ramon	Park - Senior Center Park and Gardens	9300	Alcosta Boulevard	Sean Anderson	X		X	
City of San Ramon	Park - Inverness	2961	Ascot Drive	Sean Anderson	X		X	
City of San Ramon	Park - Inverness	625	Lomond Circle	Sean Anderson	X		X	
City of San Ramon	Park - Athan Downs	2964	Ascot Drive	Sean Anderson	X		X	
City of San Ramon	Park - Inverness	555	Burns Circle	Sean Anderson	X		X	
City of San Ramon	Park - Boone Acres	9714	Davona Drive	Sean Anderson	X		X	
City of San Ramon	Park - Village Green	232	Tirana Way	Sean Anderson	X	Repaired: broken heads, clogged nozzles, 3 lateral line repairs, 1 main line break.		
City of San Ramon	Park - Windy Hills	1236	Ustilago Drive	Sean Anderson	X		X	
City of San Ramon	School - Country Club	7534	Blue Fox Way	Sean Anderson	X	Lateral line repairs, ball valve replacement, head replacement	X	Two lateral line repairs, valve replacement
City of San Ramon	School - California High - City-managed	9870	Broadmoor Drive	Sean Anderson	X		X	
City of San Ramon	School - Montevideo	13000	Broadmoor Drive	Sean Anderson	X	Solenoid replacement	X	Repair lateral line, replace 2 valves, wire trace and reconnect valves
City of San Ramon	School - Neil Armstrong	2849	Calais Drive	Sean Anderson	X	Main line repair, flow sensor replacement, head replacement	X	Replace valve
City of San Ramon	School - Coyote Creek - City-managed p	8700	N. Gale Ridge Road	Sean Anderson	X	Main line repair. Replace: quick couplers, valves, heads	X	Main line repair. Replace valves, solenoids. Realign heads around solar array
City of San Ramon	School - Pine Valley - City-managed pro	3000	Pine Valley Road	Sean Anderson	X	Solenoid replacement, wire, main line and lateral line repair, head replacement	X	Replace 2 valves, lateral line repair, relocate heads around new solar array
City of San Ramon	School - Walt Disney Elementary	3250	Pine Valley Road	Sean Anderson	X	Valve replacement, lateral line repair, head replacement.	X	Lateral line repair, pump pipe replacement
City of San Ramon	Trailhead - Montevideo/Pine Valley	3351	Bollinger Canyon Rd	Sean Anderson	X		X	
City of San Ramon	Trailhead - Cross Valley Trail	9730	Davona Drive	Sean Anderson	X		X	
City of San Ramon	Trailhead - Montevideo/Pine Valley	3200	Montevideo Drive	Sean Anderson	X		X	
City of San Ramon	Trailhead - Montevideo/Pine Valley	3201	Montevideo Drive	Sean Anderson	X		X	
San Ramon Valley USD	School - California High - SRVUSD-manag	9870	Broadmoor Drive	Stuart Watson	X		X	Addressed items listed in Notice of Correction dated 11/2/16
San Ramon Valley USD	School - Neil Armstrong - SRVUSD-manag	2849	Calais Drive	Stuart Watson	X		X	Addressed items listed in Notice of Correction dated 10/6/16
San Ramon Valley USD	School - Coyote Creek - SRVUSD-manag	8700	N. Gale Ridge Road	Stuart Watson	X		X	
San Ramon Valley USD	School - Pine Valley - SRVUSD-managed	3000	Pine Valley Road	Stuart Watson	X		X	Installed missing signs, tags & labels. Trimmed around overgrown valve boxes. Replaced broken valve boxes.
Bridges Golf Course	Golf Course	10503	Bollinger Canyon Rd	Peder Rauen	X	All irrigation leaks and or breaks were fixed in a timely manner.	X	General irrigation leaks and breaks occurred, all problems fixed quickly.
Bridges Golf Course	Golf Course	10505	Bollinger Canyon Rd	Peder Rauen	X	All irrigation leaks and or breaks were fixed in a timely manner.	X	General irrigation leaks and breaks occurred, all problems fixed quickly.
Bridges Golf Course	Clubhouse	9002	S. Gale Ridge Road	Peder Rauen	X	All irrigation leaks and or breaks were fixed in a timely manner.	X	General irrigation leaks and breaks occurred, all problems fixed quickly.
Bridges Golf Course	Driving Range	9021	S. Gale Ridge Road	Peder Rauen	X	All irrigation leaks and or breaks were fixed in a timely manner.	X	General irrigation leaks and breaks occurred, all problems fixed quickly.
Cedar Bridge HOA	Cedar Bridge HOA	8850	N. Gale Ridge Road	Cesar Delgadillo	X		X	
Cheveron USA	Cheveron Park	6001	Bollinger Canyon Road	Dan Cox	X	Wet dirt observed. #4 mainline leak discovered and repaired in parking lot 7, no surface runoff took place.	X	Main break repaired at lot 1 Island, runoff approx 7400 gallons to storm drain. Additional leaks repaired, see Corrective Action Report for details.
Easthampton HOA	Easthampton HOA	2	Elmwood Drive	Hector Lopez	X		X	Weeping valve & mainline leak repaired, no runoff.
ROIC California, LLC	Country Club Village Shopping Center	9142	Alcosta Boulevard	Felipe Ortiz	X	season. No major repairs done to irrigation system.	X	Dec 2016: Irrigation system currently OFF
The Seasons	The Seasons Apartments	9003	Kimball Avenue	Chris Mass	X		X	Repairs made: broken sprinkler heads, cracked line due to tree roots. Leaks fixed right away.
Villa San Ramon	Villa San Ramon Senior Living Center	9199	Fircrest Lane	Noel Petel	X		X	
Vinter HOA	Vinter HOA	9005	Alcosta Boulevard	Jeroen Wright	X	Clogged nozzles & stuck valve replaced. Sunken heads raised or converted. Crooked heads fixed.	X	Replaced 1 weeping valve in turf near corner of Alcosta and Brockton. Repaired 2 broken risers at unit #260



**Disinfected Tertiary-Treated
Recycled Water Irrigation Customer
Self-Monitoring Report**



Name of Customer: The Bridges Golf Club

Name/Location of Site: Golf Course

Reporting period (Please checkmark SMR period):

SMR 1: January 1 through June 30

SMR 2: July 1 through December 31

Yes No Are your recycled water signs, tags, stickers, and above-ground pipe markings properly posted and readable?

Required observations:

(Please fill in inspection date, inspector's name, and place a checkmark in the "Y" [yes] or "N" [no] column for each observation.)

Date of Inspection:	Inspected by (print name):	Y	N
1-9-17	Robert Henderson	<input checked="" type="checkbox"/>	<input type="checkbox"/>
OBSERVATIONS:			
1. Have any repairs or alterations been made to the recycled water system since the date of the last self-monitoring report? If "yes", describe below:			
2. Evidence of substantial amount of recycled water leaving the authorized irrigation site in the form of surface flow (provide estimated volume) *			
3. Evidence of ponding of recycled water and/or mosquito breeding due to ponding			
4. Breaks or leaks in irrigation system			
5. Unusual odor from recycled water (greater than in previous periods).			
6. Spray or mist contacting any drinking fountains, unless protected with shielding devices			
7. Spray or mist entering dwellings or food handling facilities			
8. Recycled water used for purposes other than irrigation, unless specified on permit for this site			
9. Substantial amount of recycled water entering a stream, flood control channel, or storm drain in the form of runoff or direct spray (provide estimated volume) *			
10. Have you observed any physical connection between recycled water system and potable water system? * (Call EBMUD immediately at 510-287-1631. If no answer, call 1-866-403-2683.			
11. Has any staff named on your recycled water permit changed since your last self-monitoring inspection? If so, please complete the "Recycled Water Customer Contact Information Form" and send to EBMUD using one of the options below.			

If any of the observations noted with an * are "yes", make telephone report immediately to EBMUD, complete a "Violation Report" form and mail, fax, or email a copy of "Violation Report" to EBMUD within one working day.

14 Indicate corrective action taken for all other "yes" observations (cite item number & attach additional sheets if necessary):
General Irrigation tanks and fixtures, all problems fixed quickly.

I certify under penalty of law that the information in this report and any attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted, to the best of my knowledge and belief, is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fines and imprisonment for knowing violations.

Robert Henderson
Signature of Customer's Recycled Water Site Supervisor

1/9/2017
Date

Submit completed report within 5 working days following end of reporting period. Submittal options for report:

1. Mail to: EBMUD
Office of Water Recycling, MS 407
ATTN: Customer Compliance Program
P.O. Box 24055
Oakland, CA 94623-1055
2. Email report to: reusen2o@ebmud.com
3. Or, fax report to: 510-287-1295

Revised Sept 2015

ATTACHMENT G

Contact Information

Rhodora Biagtan	Program Administrator/Engineer Office: 925-875-2255
Jeff Carson	Operations Manager Office: 925-875-2345
Dan McIntyre	General Manager Office: 925-875-2200
Judy Zavadil	District Engineer Office: 875-2272
Stefanie Olson	Customer Permitting and Inspection Office: 925-875-2245
Clint Byrum	Recycled Water Distribution Supervisor Office: 925-875-2367
On-Call Distribution Operator	Distribution Emergency Operator Primary: 925-872-5890 Backup: 925-872-5889
Levi Fuller	Recycled Water Treatment Supervisor Office: 925-875-2300
Brian Vannatter and Virgil Sevilla	Treatment Plant Process Leads Office: 925-519-0557
On-Duty Treatment Plant Operator	Treatment Emergency Operator Primary: 925-519-0557 Backup: 925-872-5887
Mike Tognolini	DERWA Authority Manager Office: 510-287-0125



**Dublin San Ramon
Services District**
Water, wastewater, recycled water

Regional Wastewater Treatment Facility
7399 Johnson Drive
Pleasanton, CA 94588-3862

main (925) 846-4565
fax (925) 462-0658
www.dsrsd.com

March 15, 2017

Mr. Robert Brownwood, P.E.
District Engineer
San Francisco District
California Department of Public Health
850 Marina Bay Parkway
Building P, 2nd Floor
Richmond, CA 94804

Mr. Bruce Wolf, Executive Officer
Regional Water Quality Control Board
San Francisco Bay Region
1515 Clay Street, Suite 1400
Oakland, CA 94612

Subject: 2016 Recycled Water Use Annual Report

Dear Mr. Brownwood and Mr. Wolf:

Yesterday (March 14, 2017) I submitted the 2016 Annual Recycled Water Report of the 11th season for the San Ramon Valley Recycled Water Program, a joint project of the Dublin San Ramon Services District (DSRSD) and East Bay Municipal Utility District (EBMUD), together forming a Joint Power Authority called DERWA (DSRSD/EBMUD Recycled Water Authority). Please find enclosed and addendum to that report.

In the "narrative" section of the report (page 5) I noted that there were 21 events where our scada system indicated a low UV Dosage and/or the scada system failed to capture the UV data. Upon a closer review there were 26 such events. The dates of the events are noted in the enclosed addendum along with an explanation of what was discovered upon a closer review of the scada data. I also included the coliform bacti results for each day. All 26 events were noted and highlighted in the attachments to the report.

I have asked Carollo Engineers to look at how we are capturing the UV data in our scada system and asked them to recommend improvements. It is also worth noting that our recycled water facilities are being expanded this year (2017) and there was already work planned to have Carollo Engineers upgrade the programming to the UV system. We believe these improvements should reduce, if not completely eliminate these UV data issues into the future.

Questions concerning this report may be directed by e-mail to Levi Fuller, fuller@dsrsd.com.

I certify under penalty of law that this document and all attachments are prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who managed the system, or those directly responsible for gathering the information, the information submitted, to the best of my knowledge and belief, is true, accurate, and complete.

I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Sincerely,

LEVI FULLER
DSRSD Wastewater Treatment Plant Operations Supervisor

cc: Michael Tognolini, DERWA
Jeff Carson, DSRSD
Judy Zavadil, DSRSD
Maurice Attendido, DSRSD
Brian Vannatter, DSRSD
Virgil Sevilla, DSRSD
DSRSD Operations Office Files

Date	Report Abnormality	Report Detailed Review	Days Bacti Result (MPN)
5/1/2016	Low UV Dose	355 minutes - UV Sensor Required Cleaning/Bypassed at 9:50am/	<2
5/2/2016	Low UV Dose	UV Intensity was sufficient by scada trend/ 80 us/cm 5/1/16 7:05pm until 5/2/16 7:00am (minumum 100 us/cm)	<2
5/8/2016	Low UV Dose	Scada indicates plant went into Bypass	<2
7/1/2016	Low UV Dose	Scada indicates plant went into Bypass	<2
7/7/2016	Low UV Dose	Scada indicates plant went into Bypass	<2
7/12/2016	No System Data	Scada Server Switched - Lost Scada Data/ Plant bypassed	<2
7/13/2016	No System Data	Scada Server Switched - Lost SCada Data	<2
7/26 -8/3/2016	No System Data	Scada Control Switched (TP2 to TP1)- Lost Data	(<2 - 4)
8/1/2016	Low UV Dose	Maintenance work on UVI sensor	<2
8/2/2106	Low UV Dose	#6 SF added to Scada System - Lost Scada Data	<2
8/3/2016	Low UV Dose	Maintenance work on UVI Sensor	<2
8/4/2016	Low UV Dose	Scada Historian Malfunction - Lost Scada Data	<2
8/24/2016	Low UV Dose	Scada indicates plant went into Bypass	<2
8/26/2016	Low UV Dose	Scada indicates plant went into Bypass	<2
8/27/2016	Low UV Dose	Dosage averaged 94.07 us/cm from 9:55pm on 8/27/2016 until 1:45pm on 8/28/2016 (minumum 100 us/cm)	<2
8/28/2016	Low UV Dose	Dosage averaged 85.608 us/cm from 11:35am until12:15pm on 8/28/2016 (minumum 100 us/cm)	<2
8/29/2016	Low UV Dose	Scada indicates plant went into Bypass	<2
9/12/2016	Low UV Dose	Scada indicates plant went into Bypass	<2
10/9/2016	Low UV Dose	Scada indicates plant went into Bypass	<2
10/10/2016	Low UV Dose	Scada indicates plant went into Bypass	<2