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## Central Valley Regional Water Quality Control Board

20 April 2022

Patricia J. Ingalls, District Manager  
Jamestown Sanitary District  
10190 Karlee Lane  
Jamestown, CA 95327

**CERTIFIED MAIL**  
**7021 2720 0003 2727 4866**

### NOTICE OF APPLICABILITY

**STATE WATER RESOURCES CONTROL BOARD WQ 2016-0068-DDW; WATER RECLAMATION REQUIREMENTS FOR RECYCLED WATER USE; JAMESTOWN SANITARY DISTRICT (JSD); JSD RECYCLED WATER PROGRAM, TUOLUMNE COUNTY**

Central Valley Regional Water Quality Control Board (Central Valley Water Board) staff reviewed the Notice of Intent (NOI) submitted by Black Water Consulting Engineers, Inc., on behalf of the Jamestown Sanitary District (District or JSD), for regulatory coverage under Water Quality Order WQ 2016-0068-DDW, *Water Reclamation Requirements for Recycled Water Use* (General Order). The District also submitted a Title 22 Engineering Report for the JSD Recycled Water Program, dated August 2021 (Title 22 Engineering Report). The State Water Resources Control Board, Division of Drinking Water (DDW) provided a letter dated 29 December 2021, conditionally accepted the Title 22 Engineering Report.

The District owns and operates the JSD Wastewater Treatment Facilities (Facilities), which serve the community of Jamestown and nearby areas in Tuolumne County. The Facilities consist of two separate locations designed to work in combination to receive, treat, and distribute wastewater. The modified Woods Creek Facility is at 17600 State Highway 108 and the new Quartz wastewater treatment facility (Quartz WWTF) is at 10190 Karlee Lane as shown on **Attachment A**. The District Wastewater Treatment Facilities are regulated by Waste Discharge Requirements (WDRs) Order R5-2021-0046, which specifies an annual average influent flow limitation of 0.29 million gallons per day (mgd).

On 7 June 2016, the State Water Resources Control Board adopted the General Order to regulate the use of recycled water for all Title 22 uses except groundwater recharge. The General Order delegates responsibility for administering water recycling programs to a designated Administrator. Based on the information provided in the NOI and the

Title 22 Engineering Report, the District's Recycled Water Program satisfies the general and specific conditions of the General Order. Therefore, this serves as formal notice that the General Order WQ 2016-0068-DDW is applicable to the discharge described below. The District will act as the Administrator of the recycled water system for this discharge. You are hereby assigned enrollee number WQ-. Please include this number on all future correspondence related to this discharge.

**Prior to conveying disinfected tertiary-treated recycled water from the Facility to any Use Area or Fill Station, the District shall:**

1. Conduct a tracer study of its chlorine contact basin to determine the modal contact time and modal baffling factor and to ensure that the chlorine disinfection process meets a CT of 450 mg-min/L and a modal contact time of at least 90 minutes.
  - a. Upon completion of the tracer study, the District shall submit the results to DDW for review and approval.
  - b. The District shall operate the chlorine disinfection system in accordance with the approved tracer study results.

You should familiarize yourself with the entire General Order and its attachments enclosed with this letter, which describe mandatory discharge and monitoring requirements. Sampling, monitoring, and reporting requirements applicable to your recycled water program must be completed in accordance with the enclosed Monitoring and Reporting Program (MRP) No. 2016-0068-DDW-R5021. This MRP was developed after review of your NOI and the Title 22 Engineering Report as described in the attached Technical Memorandum.

### **PROJECT DESCRIPTION**

The District completed construction of the JSD Wastewater Treatment Facilities in 2021. The Woods Creek Facility formerly provided the sewer services for the community of Jamestown and was permitted under WDRs Order 5-01-062. The Woods Creek Facility was modified in 2021 and now consists of a headworks, a grit removal system, influent pump station, and two lined emergency storage ponds. Wastewater enters at the Woods Creek Facility at the headworks, is routed through the grit screening system, and then pumped to the new Quartz WWTF for further treatment, disinfection, and subsequent disposal. The Quartz WWTF provides both disinfected secondary and tertiary treatment, along with biosolids handling and/or treatment.

Under WDRs Order R5-2021-0046, secondary disinfected effluent is discharged into the Tuolumne Utilities District's (TUD) reclamation system that distributes secondary disinfected effluent generated by the JSD Wastewater Treatment Facilities and the TUD's Sonora Regional WWTF to land application areas regulated by WDRs and Master

Reclamation Permit Order R5-2002-0202. This NOA is for the reuse of disinfected tertiary-treated recycled water at the Quartz WWTF via a fill station open to members of the public and/or for reclamation on land application areas at the Quartz WWTF.

The Quartz WWTF has the design capability to provide disinfected tertiary treatment of up to 144,000 gallons per day (gpd) of recycled water. Tertiary filtration will be provided via a cloth media filter consisting of four disks with a total filter area of 43.2 square feet and a design hydraulic loading rate of 2.31 gpm/sf. Disinfection will be provided via a twelve percent sodium hypochlorite solution injected upstream of a chlorine contact tank.

The District will operate a recycled water fill station that will be open to the public and will allow the use of recycled water for the following purposes:

- Washdown and process water at the Woods Creek Facility
- Cleaning of sewers
- Consolidation of backfill around potable water pipelines
- Backfill consolidation around non-potable piping
- Soil compaction
- Mixing concrete
- Dust control on roads and streets
- Cleaning roads, sidewalks, and outdoor work areas

Recycled water will also be used for landscape irrigation at the Quartz WWTF. The approximate locations of the recycled water Use Areas for landscape irrigation at the Quartz WWTF are shown in **Attachment B**.

WDRs Order R5-2021-0046, Provision H.3 requires the District to obtain coverage under the General Order prior to recycling tertiary-treated disinfected effluent to the Use Areas. Issuance of this Notice of Applicability (NOA) satisfies this provision.

### **RECYCLED WATER APPLICATION**

The District proposes to administer the recycled water system for use of disinfected tertiary recycled water as listed above. As the sole "Administrator", the District will be responsible for the administration of the Recycled Water Program authorized pursuant to this General Order, including the requirements of Title 22. The District will act as the sole producer and distributor of recycled water for this recycled water project.

Users who want to access the recycled water fill station will be required to show identification, receive annual training, and complete a recycled water user agreement (User Agreement). Completion of these requirements will be tracked in a digital spreadsheet file and copies of signed recycled water User Agreements. The training session will review information contained in the JSD Recycled Water Program Rules & Regulations for Recycled Water Use document (Recycled Water Rules & Regulations).

District staff will be responsible for recording the date, time, recycled water user, and amount of recycled water provided from the recycled water fill station.

### **DIVISION OF DRINKING WATER (DDW) CONSIDERATIONS AND REQUIREMENTS**

The District originally submitted a Title 22 Engineering Report, dated March 2019, to DDW for the proposed reuse of disinfected tertiary recycled water generated at the Quartz WWTF. On 8 July 2019, DDW responded to the March 2019 Title 22 Report and required the report be revised. The District subsequently submitted Title 22 Reports dated May and August 2021. The DDW conditionally accepted the August 2021 Title 22 Engineering Report on 29 December 2021. The DDW conditional acceptance letter included a condition that the District conduct a tracer study to determine the modal contact time and modal baffling factor for the chlorine contact basin, prior to commencing delivery of recycled water.

### **WATER RECYCLING USE REQUIREMENTS**

1. The production, distribution, and use of recycled water shall be managed in accordance with the Title 22 Engineering Report accepted by DDW and this NOA.
2. Application of recycled water shall be limited to the uses as described in the Title 22 Engineering Report accepted by DDW and this NOA.
3. The use of recycled water shall not cause pollution or nuisance, as defined by Water Code section 13050.
4. The recycled water shall be disinfected tertiary recycled water as defined by Title 22, section 60301.230.
5. The Administrator shall promptly notify the Central Valley Water Board of any recycled water spills or unauthorized uses.
6. All use areas, where recycled water is used, that are accessible to the public shall be posted with signs that are visible to the public, in a size no less than 4 inches by 8 inches wide, that include the following wording, "RECYCLED WATER – DO NOT DRINK."
7. Permanent above-ground piping must be clearly identified as recycled water with either purple pipe material or purple paint. Temporary above-ground piping for recycled water must also have proper coloring or labeling for easy identification.

### **GENERAL INFORMATION AND REQUIREMENTS**

The District shall comply with the Specifications, Water Recycling Administration Requirements, and General Provisions of the General Order. Please review this NOA carefully to ensure that it completely and accurately reflects the proposed Recycled Water Program. If the discharge violates the terms or conditions of the General Order, the Central Valley Water Board may take enforcement action, including the assessment of an administrative civil liability. Failure to abide by the conditions of the General Order, including MRP WQ-2016-0068-DDW-R5021, and this letter authorizing applicability

could result in enforcement actions, as authorized by provision of the California Water Code.

The required annual fee specified in the annual billing from the State Water Resources Control Board shall be paid until this NOA is officially terminated. The Administrator must submit in writing a Notice of Termination once the Recycled Water Program has ended.

### **SALT AND NITRATE CONTROL PROGRAMS**

In May 2018, the Central Valley Water Board approved new Salt and Nitrate Control Programs. The Salt Control Program was developed to address salt accumulation issues in surface water and groundwater throughout the Central Valley. The JSD Wastewater Reclamation Project was issued **CV-SALTS ID: 3604**. The District selected Pathway 2, the Alternative Salinity Permitting Approach and submitted an NOI on 14 February 2022.

For the Nitrate Control Program, the Board identified areas, referred to as Priority 1 and Priority 2 basins, where nitrates in groundwater are more prevalent and therefore pose a higher risk to persons who rely on groundwater as a source of drinking water. The Facilities and reclamation area fall outside a groundwater basin. For dischargers outside a groundwater basin, a Notice to Comply may be issued if the Central Valley Water Board Executive Officer determines it is necessary to protect water quality.

A [full copy of the Salt and Nitrate Control Program Basin Plan language \(Attachment 1 of Resolution R5-2018-0034\)](https://www.waterboards.ca.gov/centralvalley/board_decisions/adopted_orders/resolutions/r5-2018-0034_res.pdf), can be found at:  
[https://www.waterboards.ca.gov/centralvalley/board\\_decisions/adopted\\_orders/resolutions/r5-2018-0034\\_res.pdf](https://www.waterboards.ca.gov/centralvalley/board_decisions/adopted_orders/resolutions/r5-2018-0034_res.pdf).

### **DOCUMENT SUBMITTALS**

All regulatory documents, submissions, materials, data, monitoring reports, and correspondence should be converted to a searchable Portable Document Format (PDF) and submitted electronically. Documents that are less than 50MB should be emailed to: [centralvalleyfresno@waterboards.ca.gov](mailto:centralvalleyfresno@waterboards.ca.gov). Documents that are 50MB or larger should be transferred to a disk and mailed to the Central Valley Water Board office at 1685 E Street, Fresno, CA 93706. To ensure that your submittals are routed to the appropriate staff, the following information block should be included in any email used to transmit documents to this office:

**Program:** Non-15,  
**Place ID:** 879369,  
**CV-SALTS ID:** 3604  
**Facility Name:** Jamestown Sanitary District Recycled Water Program,  
**Order:** WQ-2016-0068-DDW-R5021

In order to conserve paper and reduce mailing costs, a paper copy of General Order WQO 2016-0068-DWQ has been sent only to the Administrator. Others are advised that the [General Order](#) is available on the State Water Board's website ([http://www.waterboards.ca.gov/board\\_decisions/adopted\\_orders/water\\_quality/2016/wqo2016\\_0068\\_ddw.pdf](http://www.waterboards.ca.gov/board_decisions/adopted_orders/water_quality/2016/wqo2016_0068_ddw.pdf)).

All documents, including responses to inspections and written notifications, submitted to comply with this NOA shall be directed, via the paperless office system, to the Compliance and Enforcement Unit, attention to Dale Harvey. Mr. Harvey can be reached at (559) 445-6190 or [Dale.Harvey@waterboards.ca.gov](mailto:Dale.Harvey@waterboards.ca.gov). Questions regarding the permitting aspects of the NOA, and notification for termination of coverage under the General Order, shall be directed, via the paperless office system, to the WDR Permitting Unit, attention Jeffrey S. Pyle. Jeffrey S. Pyle can be reached at (559) 445-5145 or by email at [Jeffrey.Pyle@waterboards.ca.gov](mailto:Jeffrey.Pyle@waterboards.ca.gov).

Any person aggrieved by this action of the Central Valley Water Board may petition the State Water Resources Control Board to review the action in accordance with California Water Code section 13320 and California Code of Regulations, title 23, sections 2050 and following. The State Water Resources Control Board must receive the petition by 5:00 p.m., 30 days after the date of this NOA, except that if the thirtieth day following the date of this Order falls on a Saturday, Sunday, or state holiday, the petition must be received by the State Water Resources Control Board by 5:00 p.m. on the next business day. Copies of the law and regulations applicable to filing petitions may be found on the internet at [Copies of the laws and regulations applicable to filing petitions](https://www.waterboards.ca.gov/public_notices/petitions/water_quality) ([https://www.waterboards.ca.gov/public\\_notices/petitions/water\\_quality](https://www.waterboards.ca.gov/public_notices/petitions/water_quality)) or will be provided upon request.

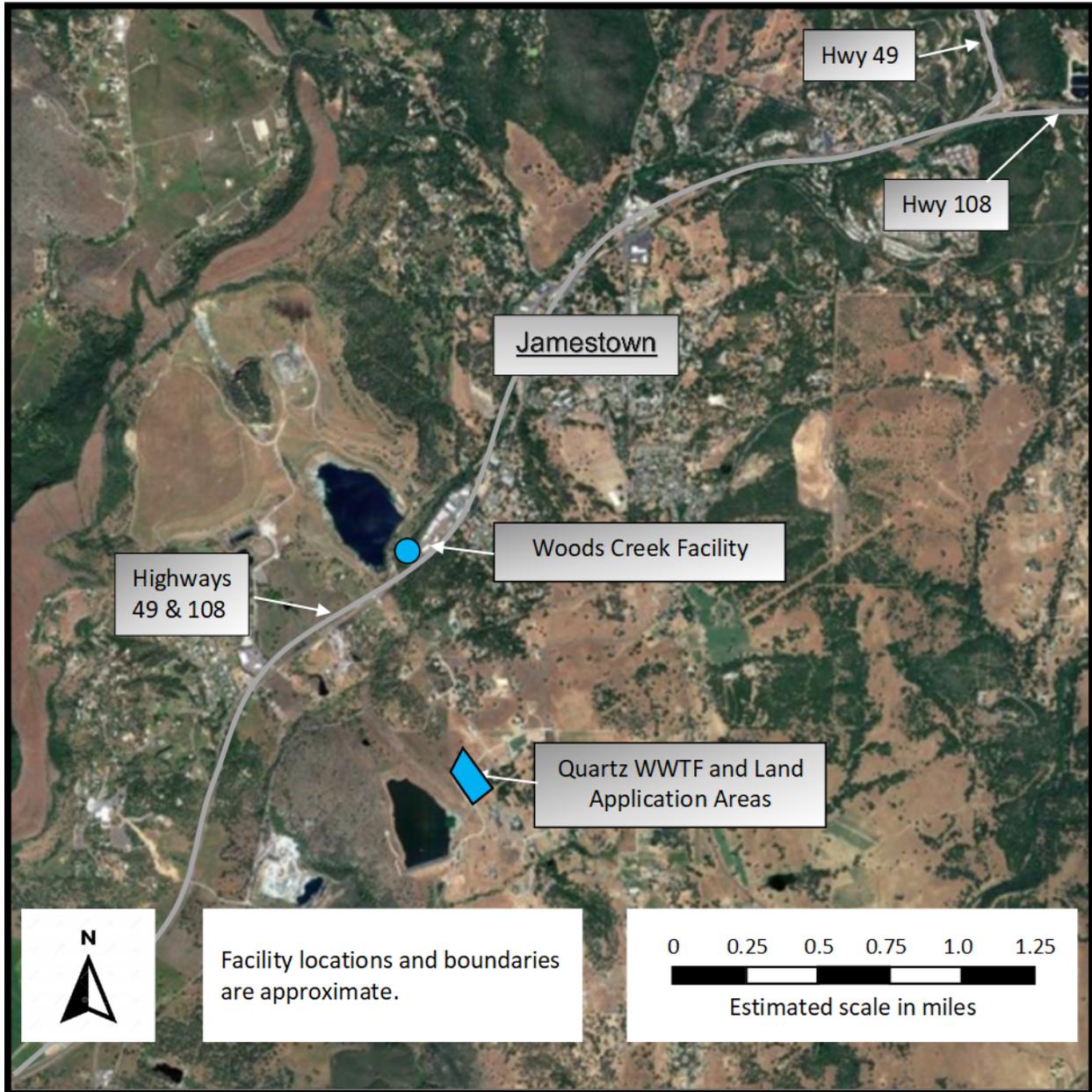
If you have any questions regarding this matter, please contact Jeffrey S. Pyle by phone at (559) 445-5145 or by email at [Jeffrey.Pyle@waterboards.ca.gov](mailto:Jeffrey.Pyle@waterboards.ca.gov).

*Original Signed by Clay L. Rodgers for:*  
Patrick Pulupa  
Executive Officer

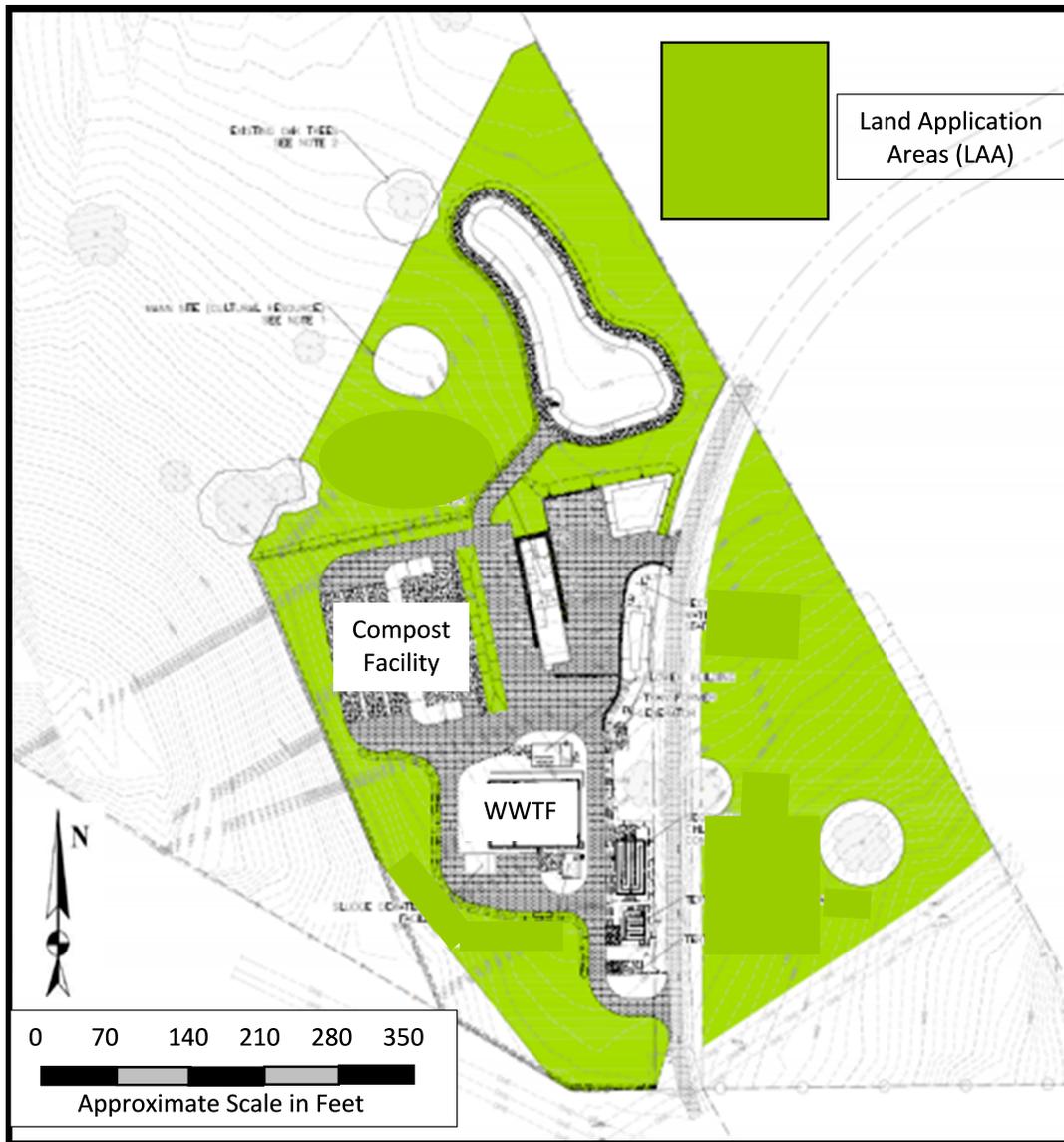
(see next page for attachments, enclosures, and cc's)

- Attachments:
- Attachment A – Site Map
  - Attachment B – Recycled Use Areas
- Enclosures:
- Monitoring and Reporting Program WQ-2016-0068-DDW-R5021
  - Staff Review Memorandum for JSD Recycled Water Program
  - DDW Conditional Acceptance Letter (29 December 2021)
  - State Water Resources Control Board Order WQ  
WQ-2016-0068-DDW (Discharger only)

- cc's:
- Christopher Moskal, State Water Resources Control Board, OCC,  
(via email)
  - Laurel Warddrip, State Water Resources Control Board, DWQ (via email)
  - Ginachi Amah, State Water Resources Control Board, DDW (via email)
  - Aide Ortiz, State Water Resources Control Board, DDW (via email)
  - Adam Forbes, State Water Resources Control Board, DDW, Fresno  
(via email)
  - Dale Harvey, Central Valley Water Board, Fresno (via email)
  - Tuolumne County Public Health Department, Sonora
  - Alison Furuya, Blackwater Engineers, Modesto (via email)
  - Debbie Webster, Central Valley Clean Water Association (via email)



**ATTACHMENT A – SITE MAP**  
NOTICE OF APPLICABILITY 2016-0068-DDW-R5021  
FOR  
JAMESTOWN SANITARY DISTRICT  
JAMESTOWN SANITARY DISTRICT RECYCLED WATER PROGRAM  
TUOLUMNE COUNTY



**ATTACHMENT B – RECYCLED USE AREAS**  
 NOTICE OF APPLICABILITY 2016-0068-DDW-R5021  
 FOR  
 JAMESTOWN SANITARY DISTRICT  
 JAMESTOWN SANITARY DISTRICT RECYCLED WATER PROGRAM  
 TUOLUMNE COUNTY

**CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD  
CENTRAL VALLEY REGION**

**MONITORING AND REPORTING PROGRAM NO. WQ-2016-0068-DDW-R5021  
FOR  
JAMESTOWN SANITARY DISTRICT  
JAMESTOWN SANITARY DISTRICT RECYCLED WATER PROGRAM  
TUOLUMNE COUNTY**

This Monitoring and Reporting Program (MRP) describes requirements for monitoring the recycled water program for the Jamestown Sanitary District (District). This MRP is issued pursuant to Water Code section 13267. The District (or Administrator) shall not implement any changes to this MRP unless and until a revised MRP is issued by the California Regional Water Quality Control Board, Central Valley Region (Central Valley Water Board) or Executive Officer.

The Administrator has applied for and received coverage for the recycled water program that is subject to the Notice of Applicability (NOA) of WQ 2016-0068-DDW-R5021 enrolling the recycled water program under State Water Resources Control Board (State Water Board) Water Quality Order 2016-0068-DDW, *Water Reclamation Requirements for Recycled Water Use* (General Order). The reports are necessary to ensure that the Administrator complies with the NOA and General Order. Pursuant to California Water Code section 13267, the Administrator shall implement this MRP and shall submit the monitoring reports described herein.

All samples shall be representative of the volume and nature of the discharge or matrix of material sampled. The name of the sampler, sample type (grab or composite), time, date, location, bottle type, and any preservative used for each sample shall be recorded on the sample chain of custody form. The chain of custody form must also contain all custody information including date, time, and to whom samples were relinquished. If composite samples are collected, the basis for sampling (time or flow weighted) shall be approved by Central Valley Water Board staff.

A glossary of terms used in this MRP is included on the last page.

Field test instruments (such as those used to test pH, dissolved oxygen, and electrical conductivity) may be used provided that they are used by a State Water Resources Control Board, Environmental Laboratory Accreditation Program (ELAP) certified laboratory, or:

1. The user is trained in proper use and maintenance of the instruments;
2. The instruments are field calibrated prior to monitoring events at the frequency recommended by the manufacturer;
3. Instruments are serviced and/or calibrated by the manufacturer at the recommended frequency; and

4. Field calibration reports are maintained and available for at least three years.

Monitoring requirements listed below may duplicate existing requirements under other orders including WDRs or waivers of WDRs that regulate agricultural discharges from irrigated lands. Duplication of sampling and monitoring activities are not required if the monitoring activity satisfies the requirements of this General Order. Collecting composite samples is acceptable in most cases. The facility may continue using existing sampling collection equipment that is consistent with the applicable facility order. However, due to short sample holding times, bacteriological samples collected to verify disinfection effectiveness must be grab samples. In addition to submitting the results under another order, the results shall be submitted in the reports required by this General Order.

### USE AREA MONITORING

The Administrator shall monitor the use area(s) at a frequency appropriate to determine compliance with this General Order and the Administrator's recycled water use program requirements. An Administrator may assign monitoring responsibilities to a User as part the Water Recycling Use Permit program. The Administrator retains responsibility to ensure the data is collected, as well as prepared and submit the Annual Report.

The following shall be recorded for each User with additional reporting for use areas as appropriate. The frequency of use area inspections shall be based on the complexity and risk of each use area. Use areas may be aggregated to combine acreage for calculations or observation purposes. Use area monitoring shall include the following:

**Table 1 – Use Area Monitoring Requirements**

Parameter	Units	Sample Type	Sampling Frequency	Reporting Frequency
Recycled Water User	---	---	---	Annually
Recycled Water Flow	gpd	Meter (see 1 below)	Monthly	Annually
Fill Station Flow (see 2 below)	gpd	Meter (see 1 below)	Daily	Annually
Acreage Applied (see 3 below)	acres	Calculated	---	Annually
Application Rate	inches/acre/year	Calculated	---	Annually
Soil Saturation/Ponding	---	Observation	Quarterly	Annually
Soil Erosion		Observation	Quarterly	Annually
Nuisance Odor/Vector	---	Observation	Quarterly	Annually
Discharge Off-Site	---	Observation	Quarterly	Annually
Notification Signs (see 4 below)	---	Observation	Quarterly	Annually

1. Meter requires meter reading or other approved method.

2. The Discharger shall record the volume provided to each fill station user as well as the user's name and intended use for the recycled water on a monthly basis.
3. Acreage applied denotes the land application area acreage to which the recycled water is applied.
4. Notification signs shall be consistent with the requirements of California Code of Regulations, title 22 section 60310 (g).

## REPORTING

In reporting monitoring data, the Administrator shall arrange the data in tabular form so that the date, sample type (e.g., effluent, solids, etc.), and reported analytical or visual inspection results are readily discernable. The data shall be summarized to clearly illustrate compliance with the General Order and NOA as applicable. The results of any monitoring done more frequently than required at the locations specified in the MRP shall be reported in the next regularly scheduled monitoring report and shall be included in calculations as appropriate.

All regulatory documents, submissions, materials, data, monitoring reports, and correspondence should be converted to a searchable Portable Document Format (PDF) and submitted electronically. Documents that are less than 50MB should be emailed to: [centralvalleyfresno@waterboards.ca.gov](mailto:centralvalleyfresno@waterboards.ca.gov). Documents that are 50MB or larger should be transferred to a disk and mailed to the appropriate Regional Water Board office, in this case 1685 E Street, Fresno, CA 93706. To ensure that your submittals are routed to the appropriate staff, the following information block should be included in any email used to transmit documents to this office:

**Program:** Non-15,  
**Place ID:** 879369  
**Facility Name:** Jamestown Sanitary District Recycled Water Program  
**Order:** 2016-0068-DDW-R5021.

### A. Annual Report

Annual Reports shall be submitted to the Regional Water Board **by April 1<sup>st</sup> following the monitoring year**. The Annual Report shall include the following:

1. A summary table of all recycled water Users and Use Areas, including a monthly list of recycled water fill station users (and corresponding recycled water volumes). Maps may be included to identify Use Areas. Newly permitted recycled water Users and Use Areas shall be identified. Recycled Water Use Permits issued over the past year shall be included with the annual report. When applicable, supplements to the Title 22 Engineering Report and the State Water Board approval/acceptance letter supporting those additions shall be included.
2. A summary table of all inspections and enforcement activities initiated by the Administrator. Include a discussion of compliance and the corrective action

- taken, as well as any planned or proposed actions needed to bring the discharge into compliance with the NOA and/or General Order. Copies of documentation of any enforcement actions taken by the Administrator shall be provided.
3. An evaluation of the performance of the recycled water treatment facility, including discussion of capacity issues, system problems, and a forecast of the flows anticipated in the next year.
  4. Tabular and graphical summaries of all monitoring data collected during the year, including priority pollutant monitoring, if required.
  5. The name and contact information for the recycled water operator responsible for operation, maintenance, and system monitoring.

A letter transmitting the annual monitoring reports shall accompany each report. The letter shall report number and severity of violations found during the reporting period, and actions taken or planned to correct the violations and prevent future violations. The transmittal letter shall contain the following penalty of perjury statement and shall be signed by the Administrator or the Administrator's authorized agent:

*"I certify under penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment."*

The Administrator shall begin implementing the above monitoring program as of the date of this MRP.

Ordered by:

*Original Signed by Clay L. Rodgers for:*  
PATRICK PALUPA, Executive Officer

4/20/2022  
(Date)

## GLOSSARY

BOD <sub>5</sub>	Five-day biochemical oxygen demand
DO	Dissolved oxygen
CT	The product of total chlorine residual and modal contact time measured at the same point.
EC	Electrical conductivity at 25° C
FDS	Fixed dissolved solids
TDS	Total dissolved solids
TKN	Total Kjeldahl nitrogen
TSS	Total suspended solids
Continuous	The specified parameter shall be measured by a meter continuously.
24-hr Composite	Samples shall be a flow-proportioned composite consisting of at least eight aliquots over a 24-hour period.
Daily	Every day except weekends or holidays.
Twice Weekly	Twice per week on non-consecutive days.
Weekly	Once per week.
Twice Monthly	Twice per month during non-consecutive weeks.
Monthly	Once per calendar month.
Quarterly	Once per calendar quarter.
Semiannually	Once every six calendar months (i.e., two times per year) during non-consecutive quarters.
Annually	Once per year.
mg/L	Milligrams per liter
mg/kg	Milligrams per kilogram
mgy	Million gallons per year
mL/L	Milliliters [of solids] per liter
µg/L	Micrograms per liter
µmhos/cm	Micromhos per centimeter
gpd	Gallons per day
mgd	Million gallons per day
MPN/100 mL	Most probable number [of organisms] per 100 milliliters
NA	Denotes not applicable
NTU	Nephelometric Turbidity Units
UV	Ultraviolet
mJ/cm <sup>2</sup>	Millijoules/cm <sup>2</sup>
SU	Standard pH units

## Central Valley Regional Water Quality Control Board

**TO:** Scott J. Hatton  
Supervising Water Resource Control Engineer

**FROM:** Alexander S. Mushegan  
Senior Water Resource Control Engineer  
RCE 84208

Jeffrey S. Pyle  
Engineering Geologist  
PG 7375



**DATE:** 20 April 2022

### **APPLICABILITY OF COVERAGE UNDER STATE WATER RESOURCES CONTROL BOARD ORDER WQ 2016-0068-DDW; WATER RECLAMATION REQUIREMENTS FOR RECYCLED WATER USE; JAMESTOWN SANITARY DISTRICT; JAMESTOWN SANITARY DISTRICT WATER RECYCLING PROJECT; TUOLUMNE COUNTY**

In September 2020, Central Valley Regional Water Quality Control Board (Central Valley Water Board) staff received a Notice of Intent (NOI) prepared by Black Water Consulting Engineers, Inc. on behalf of the Jamestown Sanitary District (JSD or District) for coverage under State Water Resources Control Board's WQ-2016-0068-DDW, *Water Reclamation Requirements for Recycled Water Use* (General Order). The District also submitted a Title 22 Engineering Report for the District's Recycled Water System, dated August 2021, which was conditionally accepted by the State Water Resources Control Board, Division of Drinking Water (DDW) on 29 December 2021.

This memorandum provides a summary of Central Valley Water Board's staff review of the NOI and Title 22 Engineering Report and evaluates if the District's proposed discharge of disinfected tertiary recycled water for recycled water uses is eligible for enrollment under the General Order.

### **BACKGROUND INFORMATION**

The District owns and operates the Jamestown Sanitary District wastewater treatment facilities (Facilities), which serve the community of Jamestown and nearby areas in Tuolumne County. The Facilities, regulated by Waste Discharge Requirements (WDRs) Order R5-2021-0046. The WDRs specify the following flow limitations for the Facilities: 1) 0.23 mgd average dry weather flow, 2) 1.4 peak daily flow, and 3) an annual average flow of 0.29 mgd.

The Facilities were upgraded/constructed in 2021 and now consist of two individual locations operated in combination to provide sewer services. The Woods Creek Facility is at 17600 State Highway 108, where the District's former wastewater treatment facility was located. The Woods Creek Facility was modified as part of the 2021 construction activities and now contains a headworks, grit screening facility, a pump station, and two lined emergency storage ponds. Wastewater is pumped from the Woods Creek Facility to the newly constructed Quartz wastewater treatment facility (Quartz WWTF) located at 10190 Karlee Lane.

The new Quartz WWTF can provide both secondary and tertiary disinfected treatment. The Quartz WWTF can produce up to 144,000 gpd of disinfected tertiary treated effluent. The disinfected tertiary recycled water will be used for a recycled water fill station (various uses), washdown water used on-site, and irrigation of landscaping at the Quartz WWTF

This District has and will continue to also discharge secondary-treated effluent to Tuolumne Utilities District's (TUD) reclamation system that distributes secondary disinfected effluent from both the Districts Quartz WWTF and the TUD's Sonora Regional WWTF to land application areas regulated by WDRs and Master Reclamation Permit Order R5-2002-0202.

### **DESCRIPTION OF DISCHARGE**

According to the NOI, the District will assume the role and responsibility of the "Administrator" under the General Order and will manage and operate the recycled water system including oversight, training, maintenance, and inspections. The District will be the only agency involved in the treatment, distribution, operation, and maintenance of the recycled water facilities. The District will be the sole Producer and Administrator. The District will also serve as the sole distributor of recycled water under the General Order.

The recycled water fill station will be open to the public. The District will implement guidelines requiring recycled water users who want to access the recycled water fill station to show identification, receive annual training, and complete a recycled water user agreement before being able to obtain recycled water. The training session will review the information contained in the JSD Recycled Water Program Rules & Regulations for Recycled Water Use document and District staff will be responsible for recording the date, time, recycled water user, and amount of recycled water provided from the recycled water fill station.

Recycled water used for landscape irrigation at the Quartz WWTF will be applied to the land application areas shown in Attachment B of the Notice of Applicability (NOA).

The NOI provides a description of the District's Recycled Water Program, including:

1. Description of Responsibilities;
2. Cross-Connection Testing Procedures;
3. Monitoring and Reporting Program;
4. Use Area Inspection Program;

5. Operations and Maintenance Program;
6. Compliance Program;
7. Employee and User Training; and
8. Emergency Procedures and Notification Requirements.

In March 2019, the District provided a copy of its “Rules and Regulations for Recycled Water Use” as Appendix A of the March 2019 Title 22 Engineering Report. The “Rules and Regulations for Recycled Water Use” were accepted by DDW and adopted by the District’s Board of Directors on 14 March 2019.

### **DIVISION OF DRINKING WATER (DDW) CONSIDERATIONS**

The District submitted a Title 22 Engineering Report for the JSD Recycled Water System, dated March 2019, which was reviewed by DDW. DDW commented on the Title 22 Engineering Report in July 2019 and the District submitted a revised Title 22 Engineering Reports dated May and August 2021. DDW reviewed the revised August 2021 and found that it adequately addressed the previous comments. On 29 December 2021, DDW issued a letter conditionally accepting the August 2021 Title 22 Engineering Report for operation and reclamation activities at the Quartz WWTF. DDW’s 29 December 2021 conditional acceptance letter recommended that prior to commencing the delivery of recycled water, the District conduct a tracer study of its chlorine contact basin to determine the modal contact time and modal baffling factor and to ensure the chlorine disinfection process meets a CT of 450 mg-mg/L and a modal contact time of at least 90 minutes. The District submitted Tracer Study Protocols to DDW in March 2022.

### **SALT AND NITRATE CONTROL PROGRAMS**

As part of the Central Valley Salinity Alternatives for Long-Term Sustainability (CV-SALTS) initiative, the Central Valley Water Board adopted Basin Plan amendments (Resolution R5-2018-0034) incorporating new programs for addressing ongoing salt and nitrate accumulation in the Central Valley at its 31 May 2018 Board Meeting. The Basin Plan amendments were conditionally approved by the State Water Resources Control Board on 16 October 2019 (Resolution 2019-0057) and by the Office of Administrative Law on 15 January 2020 (OAL Matter No. 2019-1203-03) and became effective on 17 January 2020.

Pursuant to the Basin Plan Amendments, Notices to Comply for the Salt Control Program were mailed out to dischargers on 5 January 2021 with instructions and obligations for the Salt Control Program. Upon receipt of the Notice to Comply, dischargers are required to inform the Central Valley Water Board of their choice between Option 1 (Conservative Approach to Salt Permitting) or Option 2 (Alternative Approach to Salt Permitting). The level of participation required of dischargers whose discharges do not meet stringent salinity requirements will vary based on factors such as the amount of salinity in the discharge, local conditions, and type of discharge. The District was issued

CV-SALTS ID: No. 3604 and submitted an NOI to comply with the Salt Control Program on 10 February 2022 selecting Pathway 2, the Alternative Salinity Permitting Approach. For the Nitrate Control Program, the JSD wastewater treatment facilities fall outside a groundwater basin. For dischargers outside a groundwater basin, a Notice to Comply may be issued if the Central Valley Water Board Executive Officer determines it is necessary to protect water quality in the future.

As these programs are implemented, the Central Valley Water Board may find it necessary to modify the requirements of this NOA to ensure the goals of the Salt and Nitrate Control Programs are met. For more information regarding the Salt and Nitrate Control Programs, you are encouraged to go to the [CV-SALTS Info Webpage](https://www.cvsalinity.org/public-info) (<https://www.cvsalinity.org/public-info>).

### **MONITORING REQUIREMENTS**

The monitoring requirements from Attachment B of the General Order that are appropriate for this discharge are:

- Disinfection System Monitoring (required in MRP R5-2021-0046), and
- Use Area Monitoring

### **COMMENTS**

Based on the information provided in the NOI, the August 2021 Title 22 Engineering Report, and the 29 December 2021 DDW conditional acceptance letter, the application for the JSD Recycled Water Program is consistent with the requirements of the General Order. However, the reclamation of disinfected tertiary-treated wastewater from the Facilities may not occur until the Discharger conducts the tracer study approved by DDW.