



Central Valley Regional Water Quality Control Board

6 September 2019

WDID: 5A041010001

David Grigg, President
Richardson Springs CSD
15850 Richardson Springs Rd.
Chico, CA 95973

**CERTIFIED MAIL:
7018 1130 0001 8556 3517**

Mr. Craig Anderson
Youth With A Mission – Springs of Living Water
15850 Richardson Springs Rd.
Chico, CA 95973

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NOTICE OF APPLICABILITY, WATER QUALITY ORDER 2014-0153-DWQ-R5316, RICHARDSON SPRINGS COMMUNITY SERVICES DISTRICT, SPRINGS OF LIVING WATER, INC., WASTEWATER TREATMENT FACILITY, BUTTE COUNTY

On 2 May 2019 Central Valley Regional Water Quality Control Board (Central Valley Water Board) staff inspected the Richardson Springs Community Services District (Richardson Springs CSD) wastewater facility. Richardson Springs CSD owns and operates a wastewater treatment and disposal system (Facility) for Springs of Living Water, Inc. hereafter jointly "Discharger". The Facility is located on Richardson Springs Road, Richardson Springs, Butte County. Based on the site inspection and a case file review, the facility treats and disposes of less than 100,000 gallons of wastewater per day and is therefore eligible for coverage under the general and specific conditions of State Water Resources Control Board (State Water Board) Water Quality Order 2014-0153-DWQ General Waste Discharge Requirements for Small Domestic Wastewater Treatment Systems (General Order). This letter serves as formal notice that the General Order is applicable to your facility and the wastewater discharge described below. You are hereby assigned General Order 2014-0153-DWQ-R5316 for your facility.

You can also find the General Order on the [State Water Board's Adopted Orders web page](#)

(http://www.waterboards.ca.gov/board_decisions/adopted_orders/water_quality/2014/wqo2014_0153_dwq.pdf).

You should familiarize yourself with the entire General Order and its attachments that were given to you during your inspection on 2 May 2019, which prescribes mandatory discharge and monitoring requirements. Sampling, monitoring, and reporting requirements that are applicable to your treatment and disposal methods must be completed in accordance with the sections of the General Order and the attached Monitoring and Reporting Program (MRP). This MRP was developed after consideration of your treatment system infrastructure and site conditions described in the attached Technical Memorandum.

REGULATORY BACKGROUND

The Discharger's wastewater treatment and disposal system is currently regulated under the individual Waste Discharge Requirements (WDR) Order 94-245. The WDR was adopted on 16 September 1994 and is due for an update.

FACILITY AND DESCRIPTION

Richardson Springs CSD operates the Facility for Springs of Living Water, Inc. which is located in Section 20, T23N, R2E, MDB&M with surface water drainage to Mud Creek, immediately to the south of the Facility, a tributary to the Sacramento River as shown on Attachment A. Richardson Springs CSD has been established as the entity responsible for the daily operation and maintenance of the Facility for the Springs of Living Water, Inc. Facility. The system consists of gravity flow collection lines, a common septic tank, two primary treatment ponds, collection sump and lift station, chlorine contact pipe, stabilization pond, and land application area for final disposal.

This is an existing facility, therefore enrollment under the General Order is categorically exempt from the California Environmental Quality Act (CEQA) pursuant to California Code of Regulations, title 14, section 15301 which applies to ongoing or existing projects.

FACILITY SPECIFIC REQUIREMENTS

The Discharger will maintain exclusive control over the discharge and shall comply with the terms and conditions of this NOA and the General Order 2014-0153-DWQ-R5316, with all attachments.

The General Order states in Section B.1.L that the discharger shall comply with the setbacks as described in Table 3. The following applicable setback requirements from Table 3, for which the Discharger shall comply, are summarized below:

Table 3: Summary of Wastewater System Setbacks

The following table has been adapted from Table 3 of the General Order and only include setback requirements for specific equipment or activities applicable to the subject facility. Table notes are not in alphabetical order due to the way they were formatted in the General Order.

N/A denotes Not Applicable, as the defined feature is not found within the general area of the facility.

Equipment or Activity	Domestic Well	Flowing Stream (see a below)	Ephemeral Stream Drainage (see b below)	Property Line	Lake or Reservoir (see d. below)
Septic Tank, Aerobic Treatment Unit, Treatment System, or Collection System (see e below)	150 ft. (see y below)	50 ft. (see c below)	50 ft.	5 ft. (see c below)	200 ft. (see w below)
Impoundment (disinfected sec-2.2 or sec 23 recycled water) (see h below)	100 ft. (see r below)	100 ft.	100 ft	50 ft.	200 ft.
Impoundment (undisinfected secondary recycled water) (see i below)	150 ft. (see s below)	150 ft.	150 ft.	50 ft.	200 ft.
LAA (disinfected sec 2.2 or sec-23 recycled water) (see h below)	100 ft. (see r below)	50 ft.	50 ft.	100 ft. (see x below) 50 ft. (see p below)	200 ft.

Table Notes:

- a A flowing stream shall be measured from the ordinary high-water mark established by fluctuations of water elevation and indicated by characteristics such as shelving, changes in soil character, vegetation type, presence of litter or debris, or other appropriate means.
- b Ephemeral Stream Drainage denotes a surface water drainage feature that flows only after rain or snowmelt and does not have sufficient groundwater seepage (baseflow) to maintain a condition of flowing surface water. The drainage shall be measured from a line that defines the limit of the ordinary high-water mark (described in “a” above). Irrigation canals are not considered ephemeral streams drainage features. The ephemeral stream shall be a “losing stream” (discharging surface water to groundwater) at the proposed wastewater system site.
- c Setback established by California Plumbing Code, Table K-1.
- d Lake or reservoir boundary measured from the high-water line.
- e Septic Tank, Aerobic Treatment Unit, Treatment System, or Collection System addresses equipment located below ground or that impedes leak detection by routine visual inspection.
- h Disinfected secondary-2.2 recycled water is defined in California Code of Regulations, title 22, section 60301.220. Disinfected secondary-23 recycled water is defined in California Code of Regulations, title 22, section 60301.225
- i Undisinfected secondary recycled water is defined in California Code of Regulations, title 22, section 60301.900
- k Additional restrictions for spray irrigation of recycled water are contained in California Code of Regulations, title 22, section 60310(f)
- p Setback for drip or flood application methods. Spray irrigation is subject to additional setbacks and restrictions. **(see table note k above)**
- r Setback established by California Code of Regulations, title 22, section 60310(c).
- s Setback established by California Code of Regulations, title 22, section 60310(d).
- w Setback established by the Onsite Wastewater Treatment System Policy, section 7.5.5.
- x Setback established by California Code of Regulations, title 22, section 60310(f).
- y Setback established by Onsite Wastewater Treatment System Policy, section 7.5.6.

Failure to comply with the requirements in the documents could result in an enforcement action as authorized by provisions of the California Water Code. Discharge of wastes other than those described in this NOA is prohibited. If the method of waste disposal changes from that described in this NOA, you must submit a new Report of Waste Discharge describing the new operation.

The required annual fee specified in the annual billing from the State Water Board shall be paid until this NOA is officially terminated. You must notify this office in writing if the discharge regulated by the General Order ceases, so that we may terminate coverage and avoid unnecessary billing.

Facility Information

Facility Name	Richardson Springs CSD
Program	WDR
Order Number	R5-2014-0153-R5316
WDID	5A041010001
Design Flow	40,000
Threat and Complexity	2B
Monitoring Requirements	Yes

Billing Information

Name	Richardson Springs CSD
Contact	Shirley Harrison
Email	Unknown
Address	15850 Richardson Springs Road, Chico, CA 95973
Phone	(530) 893 - 6750

The Central Valley Water Board has gone to a Paperless Office System. All regulatory documents, MRPs, 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 the following email address centralvalleyredding@waterboards.ca.gov.

Documents that are 50MB or larger should be transferred to a disc and mailed to the appropriate regional water board office, in this case 364 Knollcrest Drive, Suite 205, Redding, CA 96002.

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

WDID: 5A041010001

Facility Name: Richardson Springs CSD

Order: 2014-0153-DWQ-R5316

Please note that WDRs Order No. 94-245 is proposed to be rescinded at the 10/11 Oct 2019 meeting of the Central Valley Water Board. Upon rescission of your individual WDRs, coverage for your facility under the General Order shall become applicable subject to this Notice of Applicability.

If you have any questions regarding submitting an updated report of waste discharge, making changes to your permitted operations, compliance or enforcement please contact Ron S. Falkowski by phone at (530) 224-3227, by email at ron.falkowski@waterboards.ca.gov , or at the footer address located on the first page of this correspondence.

Original signed by Bryan Smith

PATRICK PULUPA, Executive Office

RSF: ch

Attachments: Attachment A – Site Location Map
Attachment B – Facility Map
Technical Memorandum
Monitoring and Reporting Program

cc without enclosures: Tim O'Brien, State Water Board, Sacramento
Butte County Environmental Health Department, Chico
David Lancaster, SWRCB, Office of Chief Counsel, Sacramento

RICHARDSON SPRINGS CSD
WASTEWATER TREATMENT/DISPOSAL PONDS
BUTTE COUNTY

ORDER R5-2014-0153-R5316

ATTACHMENT A - LOCATION MAP



DRAWING REFERENCE:
GOOGLE EARTH
MAP DATA: © 2019
GOOGLE
NO SCALE

LOCATION MAP
RICHARDSON SPRINGS CSD
WASTEWATER TREATMENT/DISPOSAL PONDS
BUTTE COUNTY

RICHARDSON SPRINGS CSD
WASTEWATER TREATMENT/DISPOSAL FACILITY
BUTTE COUNTY

ORDER DWQ 2014-0153-R5316

ATTACHMENT B – FACILITY MAP



DRAWING REFERENCE:
GOOGLE EARTH
MAP DATA: © 2019
GOOGLE
NO SCALE

FACILITY MAP

RICHARDSON SPRINGS CSD
WASTEWATER TREATMENT/DISPOSAL PONDS
BUTTE COUNTY

Central Valley Regional Water Quality Control Board

TECHNICAL MEMORANDUM

TO: George Low, PG
Senior Engineering Geologist

FROM: Ron Falkowski
Engineering Geologist

DATE: 6 September 2019

SIGNATURE: Original signed by Ron Falkowski

SUBJECT: REVIEW OF NITRATE AND SETBACK CONDITIONS FOR RICHARDSON SPRINGS COMMUNITY SERVICES DISTRICT (CSD), WDR ORDER 94-245, BUTTE COUNTY

I have reviewed the case file for Richardson Springs CSD. The file documents the general condition of the wastewater treatment system and evaporation ponds. The Discharger has kept adequate maintenance documentation, treatment and disposal infrastructure appeared in good order. The dissolved oxygen levels are monitored at the first wastewater treatment pond.

The average daily wastewater flow (2017-2018) is less than 11,000 gallons per day. The three treatment ponds have a design capacity which exceeds storage volume required by the existing facility. The ponds can hold and evaporate the daily discharge through estimated seasonal wet weather periods until conditions are appropriate for discharge to the onsite Land Application Area (LAA).

POTENTIAL THREATS TO WATER QUALITY

The wastewater treatment system is located southwest of the main facility complex. The closest distance from the wastewater ponds to the nearest property line is greater than 5 feet. The closest potable water well is greater than 500 feet from the wastewater ponds. The closest surface water is less than the prescribed 150 feet setback from the two (2) primary treatment ponds. However, due to an inadequate soil depth underlain by Tuscan lava flows all onsite ponds are lined. Allowing setback limits to be waived as described by Requirements Section B.1, L, (v). of the General Order. Currently no groundwater monitoring network has been established. Completion of the Nitrate

Checklist in Attachment 1 of Order 2014-0153-DWQ indicates the following flow and rationale:

A1 Exceed 20,000 gpd? No.

Wastewater flow generally less than 11,000 gpd.

Conclusion: No nitrogen removal is required.

MONITORING REQUIREMENTS

To protect water quality, General Order monitoring requirements will be sufficient. In summary, Staff recommends quarterly reporting of the average daily flow rate, dissolved oxygen, odors, freeboard, berm conditions and annual inspections of the septic tank. Quarterly monitoring will be reported by the first day of the second month after the quarter ends (e.g. January-March report is due by May 1st). Annual monitoring will be included with the fourth quarter monitoring.

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
CENTRAL VALLEY REGION

MONITORING AND REPORTING PROGRAM 2014-0153-DWQ-R5316
FOR
RICHARDSON SPRINGS COMMUNITY SERVICES DISTRICT
AND
SPRINGS OF LIVING WATER, INC.
BUTTE COUNTY

This Monitoring and Reporting Program (MRP) describes requirements for monitoring a wastewater treatment system. This MRP is issued pursuant to Water Code section 13267. The Discharger shall not implement any changes to this MRP unless and until a revised MRP is issued by the Regional Water Quality Control Board (Regional Water Board) Executive Officer.

The State Water Resources Control Board (State Water Board) and Regional Water Boards are transitioning to the paperless office system. In some regions, Dischargers will be directed to submit reports (both technical and monitoring reports) to the State Water Board's Electronic Content Management (ECM) database via email in portable document format (pdf). The email address for the ECM submittal is centralvalleyredding@waterboards.ca.gov.

Water Code section 13267 states, in part:

“In conducting an investigation specified in subdivision (a), the regional board may require that any person who has discharged, discharges, or is suspected of having discharged or discharging, or who proposes to discharge waste within its region, or any citizen or domiciliary, or political agency or entity of this state who has discharged, discharges, or is suspected of having discharged or discharging, or who proposes to discharge, waste outside of its region that could affect the quality of waters within its region shall furnish, under penalty of perjury, technical or monitoring program reports which the regional board requires. The burden, including costs, of these reports shall bear a reasonable relationship to the need for the report and the benefits to be obtained from the reports. In requiring those reports, the regional board shall provide the person with a written explanation with regard to the need for the reports and shall identify the evidence that supports requiring that person to provide the reports.”

Water Code section 13268 states, in part:

“(a) Any person failing or refusing to furnish technical or monitoring program reports as required by subdivision (b) of section 13267, or failing or refusing to furnish a statement of compliance as required by subdivision (b) of section

13399.2, or falsifying any information provided therein, is guilty of a misdemeanor and may be liable civilly in accordance with subdivision (b).

(b)(1) Civil liability may be administratively imposed by a regional board in accordance with article 2.5 (commencing with section 13323) of chapter 5 for a violation of subdivision (a) in an amount which shall not exceed one thousand dollars (\$1,000) for each day in which the violation occurs.”

The Discharger owns and operates the wastewater system that is subject to the Notice of Applicability (NOA) of Water Quality Order 2014-0153-DWQ. The reports are necessary to ensure that the Discharger complies with the NOA and General Order. Pursuant to Water Code section 13267, the Discharger 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 Regional Water Board staff.

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 Board California Environmental Laboratory Accreditation Program 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.

SEPTIC TANK MONITORING

Monitoring of septic tank shall include the following:

Table 1. Septic Tank Monitoring Frequency

Parameter	Units	Sample Type	Sampling Frequency	Reporting Frequency
Flow Rate	gallons per day (gpd)	Metered. (Flow rate may be metered or estimated based on potable water supply meter readings or other approved method.)	Continuous	Annually

Septic tanks shall be inspected and/or pumped at least as frequently as described below (except as noted below). Inspections of sludge and scum depth are not required if the tanks are pumped at least annually.

Table 2. Septic Tank Monitoring Frequency

Parameter	Units	Measurement Type	Inspection/Reporting Frequency
Sludge depth and scum thickness in each compartment of each tank	Feet	Staff Gauge	Annually
Distance between bottom of scum layer and bottom of outlet device	Inches	Staff Gauge	Annually
Distance between top of sludge layer and bottom of outlet device	Inches	Staff Gauge	Annually
Effluent filter condition (if equipped, clean as needed)	Not Applicable	Not Applicable	Annually

Septic tanks shall be pumped when any one of the following conditions exists:

1. The combined thickness of sludge and scum exceeds one-third of the tank depth of the first compartment.
2. The scum layer is within 3 inches of the outlet device.

3. The sludge layer is within 8 inches of the outlet device.

If a septic tank is pumped during the year, the pumping report shall be submitted with the annual report. All pumping reports shall be submitted with the next regularly scheduled monitoring report. At a minimum, the record shall include the date, nature of service, service company name, and service company license number.

POND SYSTEM MONITORING

Determine the need for monitoring based on the flow rate and Attachment 1 of the General Order. Biochemical oxygen demand limits apply with flow rates above 400 gpd; nitrogen limits may apply at flow rates above 20,000 gpd. (See General Order Section D, Effluent Limits and Attachment 1, Nitrogen Effluent Limit Evaluation.)

Influent Monitoring

Influent samples shall be taken from a location that provides representative samples of the wastewater and flow rate. At a minimum, influent monitoring shall consist of the following:

Table 3. Influent Monitoring Frequency

Constituent	Units	Sample Type	Sample Frequency	Reporting Frequency
Flow Rate. At a minimum, the total flow shall be measured monthly to calculate the average daily flow for the month. If wastewater is stored and applied to land, flow rate measurement may also be needed on the effluent flow.	Gallons per day (gpd)	Meter	Continuous	Quarterly

Wastewater Pond Monitoring

All wastewater and treated wastewater storage ponds (lined and unlined) shall be monitored as specified below:

Table 4. Wastewater Pond Monitoring Frequency

Constituent	Units	Sample Type	Sample Frequency	Reporting Frequency
Dissolved Oxygen	Milligrams per Liter (mg/L)	Grab	Monthly	Quarterly
Freeboard	0.1 feet	Measurement	Monthly	Quarterly
Odors	Threshold Odor Number (TON)	Observation	Monthly	Quarterly
Berm condition	Not applicable	Observation	Monthly	Quarterly

Effluent Monitoring

Effluent samples shall be taken from a location that provides representative samples of the wastewater. At a minimum, effluent monitoring shall consist of the following:

Table 5. Effluent Monitoring Frequency

Constituent	Units	Sample Type	Sample Frequency	Reporting Frequency
Biochemical Oxygen Demand	Milligrams per Liter (mg/L)	Grab	Monthly	Quarterly

DISINFECTION SYSTEM MONITORING

If disinfection is performed, samples shall be collected from immediately downstream of the disinfection system. Depending upon the level of disinfection and wastewater disposal, monitoring requirements vary. Disinfection monitoring shall be customized to the site-specific conditions from the following:

Table 6. Disinfection System Monitoring Frequency

Constituent	Units	Sample Type	Sample Frequency	Reporting Frequency
Total Coliform Organisms	Most Probable Number per 100 mL sample (MPN/100 mL)	Grab	Monthly	Quarterly
Turbidity	Nephelometric Turbidity Unit (NTU)	Grab/Meter	Monthly	Quarterly

LAND APPLICATION AREA MONITORING

The Discharger shall monitor LAAs when wastewater and/or supplemental irrigation water is applied. If wastewater/supplemental irrigation water is not applied during a reporting period, the monitoring report shall so state. The Discharger shall monitor LAA as specified in the following table and meet the testing requirements 1-4 below:

1. Meter requires meter reading, a pump run time meter, or other approved method.
2. Weather station may be site-specific station or nearby governmental weather reporting station.
3. Acreage applied denotes the acreage to which wastewater is applied.
4. Application rate may also be reported as inch/acre/month.

Table 7. Land Application Area Monitoring Frequency

Constituent	Units	Sample Type	Sampling Frequency	Reporting Frequency
Supplemental Irrigation	Gallons per day (gpd)	Meter (see 1. above)	Monthly	Quarterly
Wastewater Flow (see 1. above)	Gallons per day (gpd)	Meter (see 1. above)	Monthly	Quarterly
Local Rainfall	Inches	Weather Station (see 2. above)	Monthly	Quarterly
Acreage Applied (see 3. above)	Acres	Calculated	Monthly	Quarterly
Application Rate (see 4. above)	gallon/acre/mo	Calculated	Monthly	Quarterly
Soil Erosion Evidence	--	observation	Monthly	Quarterly
Containment Berm Condition	--	observation	Monthly	Quarterly
Soil Saturation/Ponding	--	observation	Monthly	Quarterly
Nuisance Odors/Vectors	--	observation	Monthly	Quarterly
Discharge Off-Site	--	observation	Monthly	Quarterly

SOLIDS DISPOSAL MONITORING

The Discharger shall report the handling and disposal of all solids (e.g., screenings, grit, sludge, biosolids, etc.) generated at the wastewater system. Records shall include the name/contact information for the hauling company, the type and amount of waste transported, the date removed from the wastewater system, the disposal facility name and address, and copies of analytical data required by the entity accepting the waste. These records shall be submitted as part of the annual monitoring report.

REPORTING

In reporting monitoring data, the Discharger 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 discernible. 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.

During the life of this General Order, the State Water Board or Regional Water Board may require the Discharger to electronically submit monitoring reports using the State Water Board's California Integrated Water Quality System (CIWQS) program Internet web site or alternative database. Electronic submittal procedures will be provided when directed to begin electronic submittals. Until directed to electronically submit monitoring reports, the Discharger shall submit hard copy monitoring reports.

A. Quarterly Monitoring Reports

Quarterly reports shall be submitted to the Regional Water Board on the **first day of the second month after the quarter ends** (e.g. the January-March Quarterly Report is due by May 1st). The reports shall bear the certification and signature of the Discharger's authorized representative. At a minimum, the quarterly reports shall include:

1. Results of all required monitoring.
2. A comparison of monitoring data to the discharge specifications, applicable effluent limits, disclosure of any violations of the NOA and/or General Order, and an explanation of any violation of those requirements. (Data shall be presented in tabular format.)
3. If requested by staff, copies of laboratory analytical report(s) and chain of custody form(s).

B. Annual Report

Annual Reports shall be submitted to the Regional Water Board by **March 1st following the monitoring year**. The Annual Report shall include the following:

1. Tabular and graphical summaries of all monitoring data collected during the year.
2. An evaluation of the performance of the wastewater treatment facility, including discussion of capacity issues, nuisance conditions, system problems, and a forecast of the flows anticipated in the next year. A flow rate evaluation as described in the General Order (Provision E.2.c) shall also be submitted.
3. 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.

4. A discussion of any data gaps and potential deficiencies/redundancies in the monitoring system or reporting program.
5. The name and contact information for the wastewater operator responsible for operation, maintenance, and system monitoring.

A letter transmitting the monitoring reports shall accompany each report. The letter shall report 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 Discharger or the Discharger'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 the 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 Discharger shall implement the above monitoring program as of the date of this MRP.

Ordered by:

Original signed by Bryan Smith for
PATRICK PULUPA, Executive Officer

6 September 2019

(Date)