



Central Valley Regional Water Quality Control Board

20 September 2019

WDID: 5A450103005

Mr. Josh Watkins, Water Utility Manager
City of Redding, Public Works
P.O. Box 496071
Redding, CA 96049-6071

**CERTIFIED MAIL:
7018 1130 0001 8556 3609**

Mr. Donald Bader, Area Manager
U.S. Department of the Interior
Bureau of Reclamation
16349 Shasta Dam Blvd
Shasta Lake, CA 96019

**CERTIFIED MAIL:
7018 1130 0001 8556 3593**

NOTICE OF APPLICABILITY (NOA), WAIVER OF WASTE DISCHARGE REQUIREMENTS PURSUANT TO RESOLUTION R5-2018-0085-0026, AND ORDER TO SUBMIT TECHNICAL REPORTS PURSUANT TO SECTION 13267 OF THE CALIFORNIA WATER CODE, BUCKEYE WATER TREATMENT PLANT, CITY OF REDDING, SHASTA COUNTY

On 31 May 2019 Central Valley Regional Water Quality Control Board (Central Valley Water Board) staff received a Report of Waste Discharge (ROWD) for filter backwash and system flushing discharges at the City of Redding's Buckeye Water Treatment Plant (Facility). The Central Valley Water Board requested supplemental ROWD information which was received on 10 August 2019. Currently the Facility discharges under Waste Discharge Requirements (WDRs) Order 95-006, which was adopted on 27 January 1995. Based on the ROWD and a case file review, the Facility is eligible for coverage under the general and specific conditions of Central Valley Water Board Resolution R5-2018-0085 *Waiver of Waste Discharge Requirements for Specific Types of Discharge within the Central Valley Region* (Waiver). This letter serves as formal notice that the Waiver is applicable to your facility and the backwash wastewater discharge described below. You are hereby assigned the following Waiver enrollment number 2018-0085-0026 for your Facility.

You should familiarize yourself with the entire Waiver and its attachments enclosed with this letter. Your enrollment into this Waiver shall expire concurrently with the expiration

KARL E. LONGLEY ScD, P.E., CHAIR | PATRICK PULUPA, ESQ., EXECUTIVE OFFICER

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of Waiver R5-2018-0085, which is set to expire on 7 December 2023, after which time you will have to reapply for any planned discharges of this type from your facility.

REGULATORY BACKGROUND

Waste Discharge Requirements Order 95-006 were adopted for this facility on 27 January 1995. The current Monitoring and Reporting Program requires the following:

- Monthly flow monitoring of backwash and return flow for the wash water recovery basin.
- Weekly visual observations of freeboard in the wash water recovery basin and the sludge beds.
- Weekly visual observations of the leach field for seeps, erosion, field saturation, ponding liquid, presence of nuisance and other field conditions.

DISCHARGE DESCRIPTION

The Facility is located two miles north of the community of Shasta at 11501 Benson Drive, Shasta County (see Site Location Map, Attachment A). The 14-million gallons per day (mgd) drinking water treatment facility includes rapid mix, coagulation, flocculation, sedimentation, filtration, and chlorination processes (see Facility Map, Attachment B). The Facility discharges filter backwash water to one wash water recovery basin (WWRB). Three sludge settling basins collect accumulated sludge that builds up in the WWRB. The WWRB is washed out twice a year and the settled sludge in the sludge basins is removed, dried and hauled to an approved disposal facility annually. All ponds are unlined and equipped with an underdrain recovery system. The treatment and disposal facility is owned and operated by the City of Redding Public Works Department and the property is leased from the U.S. Department of the Interior Bureau of Reclamation.

There are no proposed changes to the backwash filter system. Estimated daily flow through the WWRB is 284,350 gallons per day, most of which cycles back to the raw water feed. The process is as follows: treated water is used to backwash the water treatment plant's eight filters. Backwashing and flushing of the system generate approximately 30,000 gallons of wastewater per event. Events are dependent upon influent flow and turbidity levels. All wastewater generated by this process discharges to the WWRB, which has a storage capacity of approximately 462,500 gallons. The WWRB has a recovery floating decant structure to gravity feed the cleanest water to a sump and return it into the raw water feed. The WWRB has an overflow to the Sludge Bed No. 1 which is alarmed and requires an operator response.

Sludge from the settling basins and the WWRB is physically washed out and transferred to the primary sludge bed, generally Sludge Bed No. 1 or No. 2. Water from the sludge beds also decants off the top and filters through the sand bottom and is then returned through the laterals to the main sump and pumped back into the raw water feed. Sludge Bed No. 3 serves as an emergency storage pond.

Surface water drainage is to the nearby Spring Creek Reservoir and to Rock Creek, which are tributary to the Sacramento River. Based on findings from a well located approximately 300 feet south of the sludge beds, local groundwater was encountered approximately 60 feet below ground surface and is a confined groundwater unit with a static water level less than 5 feet below ground surface. Local drilling logs show approximately 3 feet of soil overlying fractured granite bedrock with depths to groundwater ranging from 25 to 80 feet below ground surface.

The Waiver was initiated with the adoption of Resolutions 77-69 and 82-036. Resolution 82-036 was accompanied by the adoption of a Negative Declaration under California Environmental Quality Act (CEQA), Public Resources Code section 21000 et seq. In adopting the Negative Declaration dated 23 December 1981, the Central Valley Water Board determined that the Waiver would not result in any significant environmental impacts. Although this iteration of the Waiver includes two new categories of waste discharges, this expansion will not result in a substantial change in the overall project or result in any new significant environmental impacts. Accordingly, no further CEQA documentation is required. (See Pub. Resources Code, § 21166; Cal. Code Regs., tit. 14, § 15162.)

FACILITY SPECIFIC REQUIREMENTS

The Facility will maintain exclusive control over the discharge and shall comply with the terms and conditions of this NOA and the Waiver 2018-0085-0026, with all attachments. Discharge of backwash wastewater to surface water drainage courses is prohibited. Bypass or overflow of untreated or partially treated waste is prohibited.

Discharge to the ponds shall not exceed the design capacity of the WWRB. Objectionable odors originating at this facility shall not be perceivable beyond the limits of the disposal areas. The disposal ponds shall be designed, constructed, operated and maintained to prevent inundation or washout due to floods within a 100-year return frequency. Ponds shall be managed to prevent the breeding of mosquitos, weeds shall be minimized, dead algae, vegetation and debris shall not accumulate on the water surface and public contact with the backwash wastewater shall be limited through such means as fences, signs and other acceptable alternatives.

Collected sludge and other solids shall be removed and disposed of annually and in a manner that is consistent with Chapter 15, Division 3, Title 23, of the California Code of Regulations (CCR) and approved by the Executive Officer. Any proposed change in sludge use or disposal from a previously approved practice shall be reported to the Executive Officer at least 90 days in advance of the change.

Domestic wastewater discharges to an onsite leach field are covered under current WDRs. However, these wastewater discharges occur at low volumes and are better regulated under Shasta County's Local Agency Management Program for Onsite Wastewater Treatment Systems which was adopted on 20 October 2017 and amended on 2 August 2019.

MONITORING REQUIREMENTS

Pursuant to Water Code Section 13267, you are hereby required to implement a Monitoring and Reporting Program (MRP) as described in Table 1. Data obtained per this order shall be submitted to the Central Valley Water Board annually.

Water Code section 13267 (b)(1) states, in part:

“In conducting an investigation, 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 . . . 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.”

Table 1. Monitoring and Reporting Program

Parameter	Units	Monitoring Frequency	Reporting Frequency
Wash Water Recovery Basin Flow	Gallons per day	Monthly	Annually
Freeboard, Wash Water Recovery Basin, Sludge Bed No. 3	Feet	Monthly	Annually
Dissolved Metals (see note below)	Micrograms per Liter	Annually	Annually

Table Notes:

Samples for metals shall be filtered prior to preservation and digestion using a 0.45-micron filter. Dissolved metals shall include, at a minimum, the following: Antimony, Arsenic, Barium, Beryllium, Cadmium, Chromium (Total and Hexavalent), Cobalt, Copper, Lead, Manganese, Molybdenum, Nickel, Selenium, Silver, Thallium, Vanadium, Zinc and Mercury.

Annual monitoring reports shall be submitted to the Central Valley Water Board on the **first day of the second month after the end of the preceding year** (e.g. the Annual Report is due February 1st). This monitoring data is required to provide evidence that applicability of the Waiver is appropriate.

The MRP required by this Order is to ensure protection of waters of the state and to protect public health. Failure to implement the MRP may result in enforcement action(s) being taken against you. Failing to implement the MRP is considered a misdemeanor, and the Central Valley Water Board may impose civil liability of up to \$1,000 per day for late or falsified reports pursuant to Water Code section 13268.

Failure to comply with the requirements in the NOA and Waiver 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 ROWD describing the new operation.

You must notify this office in writing if the discharge regulated by the Waiver ceases, so that we may terminate coverage.

Facility Information

Facility Name	Buckeye Water Treatment Plant
Program	WDR
Order Number	R5-2018-0085-0026
WDID	5A450103005
Design Flow	0.285 Million Gallons per Day

Billing Information

Name	City of Redding, Public Works Department
Contact	Ryan Bailey
Email	rbailey@cityofredding.com
Address	PO Box 496071, Redding, CA 96049-6071
Phone	(530) 224 - 6030

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: 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: WDR

WDID: 5A450103005

Facility Name: Buckeye Water Treatment Plant

Order: R5-2018-0085-0026

Please note that WDRs Order 95-006 is proposed to be rescinded at the 6 December 2019 board meeting of the Central Valley Water Board. Upon rescission of your individual WDRs, coverage for your facility under the Waiver 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 Monique Gaido at (530) 224-4205, monique.gaido@waterboards.ca.gov, or the footer address.

Original signed by Bryan J. Smith for

PATRICK PULUPA, Executive Officer

MG: ch

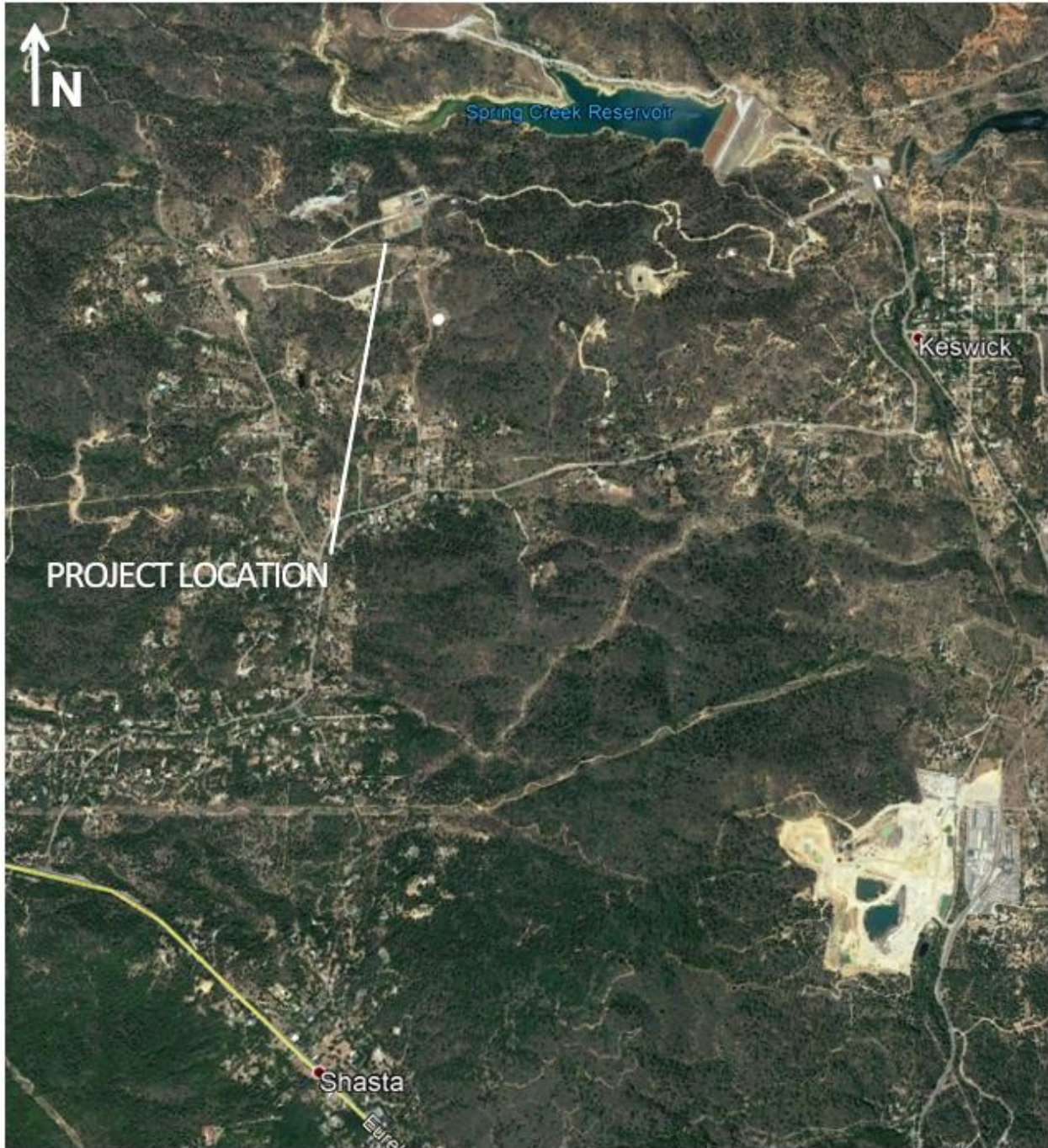
Attachment A: Site Location Map
Attachment B: Facility Map
Attachment C: Resolution R5-2018-0085

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

BUCKEYE WATER TREATMENT PLANT
CITY OF REDDING
SHASTA COUNTY

ORDER R5-2018-0085-0026

ATTACHMENT A - LOCATION MAP



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

LOCATION MAP
BUCKEYE WATER TREATMENT PLANT
SHASTA COUNTY

BUCKEYE WATER TREATMENT PLANT
CITY OF REDDING
SHASTA COUNTY

ORDER R5-2018-0085-0026

ATTACHMENT B - FACILITY MAP



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

FACILITY MAP
BUCKEY WATER TREATMENT PLANT
SHASTA COUNTY