

Please indicate County where
your project is located here:
Placer County

MAIL FORM AND ATTACHMENTS TO:
State Water Resources Control Board
DIVISION OF WATER RIGHTS
P.O. Box 2000, Sacramento, CA 95812-2000
Tel: (916) 341-5300 Fax: (916) 341-5400
http://www.waterboards.ca.gov/waterrights

STATE WATER RESOURCES
CONTROL BOARD
2013 JAN -3 PM 12:08
DIV OF WATER RIGHTS
SACRAMENTO

PETITION FOR CHANGE

Separate petitions are required for each water right. Mark all areas that apply to your proposed change(s). Incomplete forms may not be accepted. Location and area information must be provided on maps in accordance with established requirements. (Cal. Code Regs., tit. 23, § 715 et seq.) Provide attachments if necessary.

Point of Diversion Wat. Code, § 1701**Point of Rediversion** Cal. Code Regs., tit. 23, § 791(e)**Place of Use** Wat. Code, § 1701**Purpose of Use** Wat. Code, § 1701**Distribution of Storage** Cal. Code Regs., tit. 23, § 791(e)**Temporary Urgency** Wat. Code, § 1435**Instream Flow Dedication** Wat. Code, § 1707**Waste Water** Wat. Code, § 1211**Split** Cal. Code Regs., tit. 23, § 836**Terms or Conditions** Cal. Code Regs., tit. 23, § 791(e) **Other**

Application

Permit

License

Statement

I (we) hereby petition for change(s) noted above and described as follows:

Point of Diversion or Rediversion – Provide source name and identify points using both Public Land Survey System descriptions to ¼-¼ level and California Coordinate System (NAD 83).

Present: 121° 8' 2.29" W / 38° 47' 52.97" N (MDBM); SW ¼ of the SW ¼ of Section 18, Township 11N, Range 8E; Placer County SMD 3 Wastewater Treatment Plant outfall at Miners Ravine.

Proposed: 121° 19' 9.72" W / 38° 44' 15.207" N, (MDBM); SE ¼ of the NE ¼ of Section 9, Township 10N, Range 6E; Dry Creek Wastewater Treatment Facility outfall at Dry Creek.

Place of Use – Identify area using Public Land Survey System descriptions to ¼-¼ level; for irrigation, list number of acres irrigated.

Present: Refer to Attachment 1.

Proposed: Refer to Attachment 1.

Purpose of Use

Present: Refer to Attachment 1.

Proposed: Refer to Attachment 1.

Split

Provide the names, addresses, and phone numbers for all proposed water right holders: N/A

In addition, provide a separate sheet with a table describing how the water right will be split between the water right holders: for each party list amount by direct diversion and/or storage, season of diversion, maximum annual amount, maximum diversion to offstream storage, point(s) of diversion, place(s) of use, and purpose(s) of use. Maps showing the point(s) of diversion and place of use for each party should be provided.

Distribution of Storage

Present: N/A

Proposed: N/A

Temporary Urgency

This temporary urgency change will be effective from N/A to N/A.

Include an attachment that describes the urgent need that is the basis of the temporary urgency change and whether the change will result in injury to any lawful user of water or have unreasonable effects on fish, wildlife or instream uses.

Instream Flow Dedication – Provide source name and identify points using both Public Land Survey System descriptions to ¼-¼ level and California Coordinate System (NAD 83).

Upstream Location: N/A

Downstream Location: N/A

List the quantities dedicated to instream flow in either: cubic feet per second or gallons per day:

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>

Will the dedicated flow be diverted for consumptive use at a downstream location? Yes No
If yes, provide the source name, location coordinates, and the quantities of flow that will be diverted from the stream.

Waste Water

If applicable, provide the reduction in amount of treated waste water discharged in cubic feet per second.
The ADFW of the SMD 3 WWTP of 0.11 MGD (0.2 cfs).

Will this change involve water provided by a water service contract which prohibits your exclusive right to this treated waste water? Yes No

Will any legal user of the treated waste water discharged be affected? Yes No

General Information – For all Petitions, provide the following information, if applicable to your proposed change(s).

Will any current Point of Diversion, Point of Storage, or Place of Use be abandoned? Yes No

I (we) have access to the proposed point of diversion or control the proposed place of use by virtue of:
 ownership lease verbal agreement written agreement

If by lease or agreement, state name and address of person(s) from whom access has been obtained.

Give name and address of any person(s) taking water from the stream between the present point of diversion or redirection and the proposed point of diversion or redirection, as well as any other person(s) known to you who may be affected by the proposed change.

Refer to Attachment 1: A024888-Miners Ravine; S012496-Miners Ravine; and S016073-Dry Creek. These are the only exercised water rights located between the existing and proposed point of discharge established after the construction of the SMD 3 WWTP (post-1962).

All Water Right Holders Must Sign This Form: I (we) declare under penalty of perjury that this change does not involve an increase in the amount of the appropriation or the season of diversion, and that the above is true and correct to the best of my (our) knowledge and belief. Dated January 2 2013 at Auburn CA

[Signature]
Water Right Holder or Authorized Agent Signature

Water Right Holder or Authorized Agent Signature

NOTE: All petitions must be accompanied by:
(1) the form **Environmental Information for Petitions**, available at:
http://www.waterboards.ca.gov/waterrights/publications_forms/forms/docs/pet_info.pdf
(2) applicable fees, per the **Water Rights Fee Schedule**, available at:
http://www.waterboards.ca.gov/waterrights/water_issues/programs/fees/

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ENVIRONMENTAL INFORMATION FOR PETITIONS

This form is required for all petitions.

Before the State Water Resources Control Board (State Water Board) can approve a petition, the State Water Board must consider the information contained in an environmental document prepared in compliance with the California Environmental Quality Act (CEQA). This form is not a CEQA document. If a CEQA document has not yet been prepared, a determination must be made of who is responsible for its preparation. As the petitioner, you are responsible for all costs associated with the environmental evaluation and preparation of the required CEQA documents. Please answer the following questions to the best of your ability and submit any studies that have been conducted regarding the environmental evaluation of your project. If you need more space to completely answer the questions, please number and attach additional sheets.

DESCRIPTION OF PROPOSED CHANGES OR WORK REMAINING TO BE COMPLETED

For a petition for change, provide a description of the proposed changes to your project including, but not limited to, type of construction activity, structures existing or to be built, area to be graded or excavated, increase in water diversion and use (up to the amount authorized by the permit), changes in land use, and project operational changes, including changes in how the water will be used. For a petition for extension of time, provide a description of what work has been completed and what remains to be done. Include in your description any of the above elements that will occur during the requested extension period.

A description of the proposed project (Alternative B - Road Right-of-Way Alignment) is provided in Attachment 2 and summarized below:

The SMD 3 Regional Sewer Project includes decommissioning the SMD 3 WWTP, and constructing a pump station and force main to convey wastewater flows to the Sewer Maintenance District 2 (SMD 2) collection system for connection to the SPWA interceptor and Dry Creek Wastewater Treatment Plant (WWTP). Elements of the Proposed Project include (1) construction of a duplex pumping station on the current SMD 3 WWTP site including the installation of a wet well (with submersible pumps), outdoor standby generator, emergency storage, check valve, seated gate valve, flow meter, a pipeline inspection gauge (PIG) launching station, odor control mechanisms, and an electrical building with an outdoor chemical containment pad for future addition of odor control facilities; (2) phased construction of a 10-inch, 23,250-linear-foot pipeline along an alignment entirely within the Auburn-Folsom Road and Joe Rodgers Road right-of-way (ROW); and (3) decommissioning of the existing SMD 3 WWTP which may include the re-purposing of various structures to provide emergency storage for the proposed pump station, filling of below grade structures with sand or crushed rock, and demolishing or abandoning in place all above-ground structures not being considered for re-purposing. The SMD 3 currently discharges approximately 0.11 million gallons per day (mgd) average dry-weather flow (ADWF) of treated effluent to Miner's Ravine. With implementation of the Proposed Project, this discharge would be eliminated. The goal of

the project is to bring the SMD 3 system into compliance with waste discharge requirements and a Cease and Desist Order issued by the Central Valley Regional Water Quality Control Board.

Cranes, backhoes, compaction equipment, and dump trucks would be utilized during construction of the pump station and equalization storage facilities and decommissioning of the WWTP. Blasting may be required to break up in-situ rock prior to excavation. Construction of the proposed force main would require general construction activities including grading, excavating, trenching, pipe installation, placement of backfill, and asphalt patching. The proposed force main under the Proposed Project will cross Miners Ravine at two locations along Auburn-Folsom Road, as part of the second phase of construction, near the intersections of Twin Rocks Road and Willow Lane. The force main may be installed under Miners Ravine using jack and bore tunneling or directional drilling construction methods that would avoid disturbing the ground surface. Staging areas would be utilized in areas near construction sites to store pipe and other materials, construction equipment, and other necessary items. Short-term temporary easements for staging areas would be negotiated by contractors prior to construction. These areas will be located in previously disturbed areas where sensitive biological resources are not present.

A grading and erosion control plan will be prepared and implemented for the project in accordance with the County's grading and erosion control ordinance. Standard conditions on the grading plans will include a description of Best Management Practices (BMPs) for the protection of water quality similar to those contained in a Storm Water Pollution Prevention Plan (SWPPP).

Insert the attachment number here, if applicable: 2

Coordination with Regional Water Quality Control Board

For change petitions only, you must request consultation with the Regional Water Quality Control Board regarding the potential effects of your proposed change on water quality and other instream beneficial uses. (Cal. Code Regs., tit. 23, § 794.) In order to determine the appropriate office for consultation, see:
http://www.waterboards.ca.gov/waterboards_map.shtml. Provide the date you submitted your request for consultation here, then provide the following information.

Date of Request: On December 27, 2011, the State Clearing House (SCH) submitted the Notice of Preparation (NOP) for the SMD 3 Regional Sewer Project EIR to RWQCB #5 soliciting comments on the scope and content of the EIR. On June 22, 2012, the SCH submitted the Notice of Availability (NOA) of the Draft EA/EIR for the SMD 3 Regional Sewer Project to the RWQCB #5 requesting comments on the adequacy of information within the Draft EA/EIR. The RWQCB did not submit any comments regarding the project in response to either request.

Will your project, during construction or operation, (1) generate waste or wastewater containing such things as sewage, industrial chemicals, metals, Yes No or agricultural chemicals, or (2) cause erosion, turbidity or sedimentation?

Will a waste discharge permit be required for the project? Yes No

If necessary, provide additional information below:

During construction, the SMD 3 WWTP will retain its ability to discharge effluent to Miner's Ravine pursuant to NPDES No. CA0079367, (WDR; R5-2007-0070), and a Cease and Desist Order (CDO; R5-2007-0071). The County would apply for coverage under the NPDES General Construction Permit for construction activities and implement certain BMPs during construction to avoid impacts to water quality from erosion and sedimentation.

Insert the attachment number here, if applicable: 2

Local Permits

For temporary transfers only, you must contact the board of supervisors for the county(ies) both for where you currently store or use water and where you propose to transfer the water. (Wat. Code § 1726.) Provide the date you submitted your request for consultation here.

Date of Contact: N/A

For change petitions only, you should contact your local planning or public works department and provide the information below.

Person Contacted: Lisa Carnahan

Date of Contact: March 2012

Department: Planning

Phone Number: 530-745-3000

County Zoning Designation: N/A

Are any county permits required for your project? If yes, indicate type below. Yes No

Grading Permit Use Permit Watercourse Obstruction Permit

Change of Zoning General Plan Change Other (explain below)

If applicable, have you obtained any of the permits listed above? If yes, provide copies.

Yes No

If necessary, provide additional information below:

Placer County is the applicant for the Petition for Change and participated as the lead agency under CEQA for the Draft and Final EA/EIR. County permits required for the project are limited to the approval of a use permit, encroachment permits, and possibly a grading permit for construction activities and staging areas on County owned property and within County right-of-way.

Insert the attachment number here, if applicable: 2

Federal and State Permits

Check any additional agencies that may require permits or other approvals for your project:

Regional Water Quality Control Board

Department of Fish and Game

- Dept of Water Resources, Division of Safety of Dams
- California Coastal Commission State Reclamation Board
- U.S. Army Corps of Engineers U.S. Forest Service
- Bureau of Land Management Federal Energy Regulatory Commission
- Natural Resources Conservation Service

Have you obtained any of the permits listed above? If yes, provide copies. Yes No

For each agency from which a permit is required, provide the following information:

Agency	Permit Type	Person(s) Contacted	Contact Date	Phone Number
<u>USACE</u>	<u>NEPA Compliance, Grant Funding Approval</u>	<u>Mario Parker SPK</u>	<u>Continuous – FONSI and funding approval expected January 2013</u>	<u>916-557-6701</u>
<u>Central Valley RWQCB</u>	<u>General NPDES</u>	<u>TBD</u>	<u>(Will occur prior to construction)</u>	
<u>CA DFG</u>	<u>Streambed Alteration Agreements (1600 SAA)</u>	<u>TBD</u>	<u>(County to submit permit application by December 31, 2012)</u>	
<u>USFWS</u>	<u>Section 7 Concurrence Letter</u>	<u>Kellie Berry, Chief, Sacramento Valley Division</u>	<u>8/28/2012 and 9/18/2012</u>	<u>916-414-6645</u>
<u>USFWS</u>	<u>Fish and Wildlife Coordination Act Report</u>	<u>Daniel Welsh, Assistant Field Supervisor</u>	<u>10/1/2021</u>	<u>916-414-6612</u>
<u>NMFS</u>	<u>Section 7 Concurrence Letter</u>	<u>TBD</u>	<u>Response letter expected January 3, 2013</u>	
<u>SHPO</u>	<u>Section 106 Consultation</u>	<u>Milford Wayne Donaldson</u>	<u>9/13/2012</u>	<u>916-445-7036</u>
<u>Placer County Air Pollution Control District</u>	<u>Authority to Construct and a Permit to Operate</u>	<u>TBD</u>	<u>(Will be obtained prior to construction.)</u>	

FEMA	<u>Conditional Letter of Map Revision (CLOMR)</u>	TBD	<u>(Will be obtained prior to construction.)</u>	
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If necessary, provide additional information below:

A description of required permits and approvals is provided in detail in **Attachment 2**.

Coordination under the Fish and Wildlife Coordination Act is being carried out with the Resource agencies. The USFWS' Coordination Act Report is included in Appendix B of this Final EA/EIR included in **Attachment 2**.

The USACE has prepared a Biological Assessment and initiated formal consultation with the U.S. Fish and Wildlife Service (USFWS) and the National Marine Fisheries Service (NMFS) in accordance with Section 7 of the FESA. Consultation shall be concluded prior to the USACE's approval of the Proposed Action. The USFWS' concurrence letter on the VELB is provided in Appendix B of the Final EA/EIR included in **Attachment 2**.

A Cultural Resources Study for the Placer County SMD 3 Regional Sewer Project (2012; Appendix J of the Draft EA/EIR) was prepared for consultation between the USACE and the SHPO pursuant to the requirements of Section 106 of the NHPA. SHPO concurred with the USACE's determination of no historic properties affected in a letter dated September 13, 2012. The concurrence letter received from the SHPO is included in Appendix B of the Final EA/EIR included in **Attachment 2**.

The County will comply with the SWRCB NPDES General Permit for Discharges of Storm Water Runoff Associated with Construction Activity (General Construction Permit), Adopted Order 2009-0009-DWQ. The County will file a Notice of Intent with the SWRCB and prepare a SWPPP prior to construction, which will include a detailed, site-specific listing of the potential sources of stormwater pollution; pollution prevention measures; a description of the type and location of erosion and sediment control BMPs to be implemented at the project site; and a BMP monitoring and maintenance schedule.

Insert the attachment number here, if applicable: 2

Construction or Grading Activity

Does the project involve any construction or grading-related activity that has significantly altered or would significantly alter the bed, bank or riparian habitat of any stream or lake?

Yes No

If necessary, provide additional information below:

A CA DFG Streambed Alteration Agreement is being prepared for a single drainage culvert crossing within the approved forcemain alignment. Construction at this crossing will not commence until the CA DFG Streambed Alteration Agreement is obtained for the work. The EIR (Attachment 2) lists the mitigation measures to minimize and avoid impacts to sensitive aquatic areas.

Insert the attachment number here, if applicable: 2

Archeology

Has an archeological report been prepared for this project? If yes, provide a copy. Yes No

Will another public agency be preparing an archeological report? Yes No

Do you know of any archeological or historic sites in the area? If yes, explain below. Yes No

If necessary, provide additional information below:

A Cultural Resources Study for the Placer County SMD 3 Regional Sewer Project (2012; Appendix J of the Draft EA/EIR) was prepared for consultation between the USACE and the SHPO pursuant to the requirements of Section 106 of the NHPA. SHPO concurred with the USACE's determination of no historic properties affected in a letter dated September 13, 2012. The concurrence letter received from the SHPO is included in Appendix B of the Final EA/EIR.

Insert the attachment number here, if applicable: 4

Photographs

For all petitions other than time extensions, attach complete sets of color photographs, clearly dated and labeled, showing the vegetation that exists at the following three locations:

- Along the stream channel immediately downstream from each point of diversion
- Along the stream channel immediately upstream from each point of diversion
- At the place where water subject to this water right will be used

Photographs depicting the vegetation immediately upstream and downstream of the SMD 3 and SMD 2 point of discharge are included in **Attachment 3**. Additional photographic documents may be provided by the County upon request.

Maps

For all petitions other than time extensions, attach maps labeled in accordance with the regulations showing all applicable features, both present and proposed, including but not limited to: point of diversion, point of rediversion, distribution of storage reservoirs, point of discharge of treated wastewater, place of use, and location of instream flow dedication reach. (Cal. Code Regs., tit. 23, §§ 715 et seq., 794.)

Pursuant to California Code of Regulations, title 23, section 794, petitions for change submitted without maps may not be accepted.

A Regional Project Component Map is provided in **Attachment 1**.

All Water Right Holders Must Sign This Form:

I (we) hereby certify that the statements I (we) have furnished above and in the attachments are complete to the best of my (our) ability and that the facts, statements, and information presented are true and correct to the best of my (our) knowledge.

Dated 11/2/2013 at Auburn CA


Water Right Holder or Authorized Agent Signature

Water Right Holder or Authorized Agent Signature

NOTE:

- Petitions for Change may not be accepted unless you include proof that a copy of the petition was served on the Department of Fish and Game. (Cal. Code Regs., tit. 23, § 794.)
- Petitions for Temporary Transfer may not be accepted unless you include proof that a copy of the petition was served on the Department of Fish and Game and the board of supervisors for the county(ies) where you currently store or use water and the county(ies) where you propose to transfer the water. (Wat. Code § 1726.)

Attachment 1

Project Overview

Placer County's proposed Sewer Maintenance District 3 (SMD 3) Regional Sewer Project (Project) consists of the decommissioning of the existing SMD 3 wastewater treatment plant (WWTP) and construction of a pump station and force main to convey wastewater to the Sewer Maintenance District 2 (SMD 2) collection system for treatment at the City of Roseville Dry Creek WWTP. As part of the Project, the SMD 3 service area would be annexed into the South Placer Wastewater Authority (SPWA) service area boundaries. The goal of the Project is to bring the SMD 3 system into compliance with waste discharge requirements issued by the Central Valley Regional Water Quality Control Board (CVRWQCB) on June 22, 2007. The Project is being partially funded through a grant authorized by the Energy and Water Development Appropriations Act administered by the U.S. Army Corps of Engineers (USACE). The project is being designed and constructed by Placer County.

Project Background

Placer County currently operates the SMD 3 WWTP pursuant to NPDES No. CA0079367 on County-owned property at 4928 Auburn-Folsom Road (APN: 036-110-011-000) (**Figure 1**). The SMD 3 WWTP was established in 1962 and currently provides sewer and wastewater treatment service to approximately 1,500 residents (615 equivalent dwelling units) in the Horseshoe Bar area of Loomis. Wastewater collected in the approximately 1,846-acre sewer Service Area is currently treated by the SMD 3 WWTP discharges treated effluent to Miners Ravine. The WWTP is classified as a minor discharger, with a permitted treatment capacity of 0.30 million gallons per day (mgd) average dry-weather flow (ADWF) with a current flow of .11 mgd ADWF.

On June 22, 2007, the CVRWQCB issued more stringent waste discharge requirements (WDR; R5-2007-0070) and a Cease and Desist Order (CDO; R5-2007-0071) for the SMD 3 WWTP. The existing WWTP was not designed to meet many of the treatment requirements listed in the orders. The preferred solution is to construct a new pumping station and force main pipeline to convey wastewater into the existing SMD 2 collection system, which connects to the SPWA interceptor and treatment system and ultimately the Dry Creek WWTP owned and operated by the City of Roseville.

The County proposes to implement the SMD 3 Regional Sewer Project to meet the following primary objectives:

- Comply with the June 2007 Waste Discharge Requirements adopted by the CVRWQCB for the SMD 3 system by ceasing discharge into Miners Ravine;
- Protect water quality and public health through compliance with applicable regulations for the treatment, and disposal of wastewater and wastewater residuals (biosolids);
- Maximize operational flexibility, reliability, efficiency, and safety;
- Minimize adverse environmental effects;
- Achieve the above objectives in a cost-effective manner that limits system capital costs, operations and maintenance costs, and user rates to the extent possible; and
- Avoid penalties by completing the project improvements within the time limits specified by the CVRWQCB.

Environmental Review

A Final Environmental Assessment / Environmental Impact Report (EA/EIR) has been prepared in accordance with the requirements of the National Environmental Policy Act (NEPA) and the California Environmental Quality Act (CEQA) to analyze potential environmental impacts associated with the Proposed Project. The USACE is the lead agency under NEPA and the County is the lead agency under CEQA. The Final EIR for the project was certified by the County on November 20th, 2012 and is provided as **Attachment 2** with this submittal for a Petition for Change. A Hydrologic Study was prepared for the project which contains additional information relative to the elimination of effluent discharge to Miners Ravine, including an analysis of effects to stream flows and fisheries resources. The Hydrologic Study is included as Appendix I of the attached Draft EA/EIR document (**Attachment 2**, Draft EA/EIR Appendix I).

Current Point of Discharge and SMD 3 Effluent Flows

The current Point of Discharge (POD) for the SMD 3 WWTP is located at 121° 8' 2.29" W / 38° 47' 52.97" N (MDBM). The POD is set within the bank of Miners Ravine and discharges directly into the creek.

Treated effluent discharge data for the SMD 3 WWTP has been recorded on a daily basis since January of 1994 (**Table 1**). The current flow rates at the SMD 3 WWTP are 0.11 MGD (0.2 cfs) ADWF and 0.58 mgd (1.1 cfs) peak wet weather flow (PWWF). The PWWF is based on an assumed storm of 10-year frequency and 24-hour duration. The mean daily discharge of treated effluent over this 18 year period of record is 0.163 cfs (n=6575). The minimum effluent discharge ever recorded was 0.0062 cfs (with exception to the 123 zero flow days where no effluent discharge occurred), and the maximum discharge recorded over this period of record was 4.9 cfs occurring in January of 1995 that can be attributed a record water year and flooding. As shown in **Table 1**, the greatest frequency of effluent flows falls within the 0.1-0.2 cfs discharge rate (4176) accounting for 64 percent of the average daily treated effluent flows discharged from the SMD 3 facility to Miners Ravine during this 18 year period of record.

Background stream flow data for Miners Ravine has been recorded at the R1 weir (approximately 150 feet upstream from the POD) since December of 2000 on an intermittent basis (between one and three weekly recordings) and on a daily basis since February of 2008. During this period of record, the mean streamflow at the R1 weir was 5.13 cfs (n=2518), the minimum flow recorded was 0.15 cfs, and the maximum flow recorded was greater than 16.5 cfs (this is due to the overtopping of the weir during peak flow events and the inability to accurately measure flows at this stage). The frequency of flows in Miners Ravine for the period of record is shown in **Table 2** below.

TABLE 1
SMD 3 EFFLUENT DISCHARGE FLOWS

SMD 3 Effluent Discharge (cfs)	Frequency of Occurrence (n=6575)
0 cfs	123
0-0.1 cfs	887
0.1-0.2 cfs	4176
0.2-0.3 cfs	1058
0.3-0.4 cfs	197
0.4-0.5 cfs	70
0.5-0.6 cfs	26
0.6-0.7 cfs	14
0.7-0.8 cfs	7
0.8-0.9 cfs	9
0.9-1.0 cfs	1
> 1.0 cfs	7

Source: Placer County, 2012

Note: Effluent flow record Jan 1994-December 2011

TABLE 2
HISTORIC STREAMFLOWS IN MINERS RAVINE

Miners Ravine Flow at R1 (cfs)	Frequency of Occurrence (n=2518)
0-2 cfs	256
2-4 cfs	1176
4-6 cfs	426
6-8 cfs	233
8-10 cfs	151
10-12 cfs	39
12-14 cfs	66
14-16 cfs	12
> 16 cfs	159

Source: Placer County, 2012

Note: Streamflow record December 2000-December 2011

As shown in **Table 2**, the greatest frequency of flows recorded in Miners Ravine falls within the 2-4 cfs flow range, accounting for 46 percent of the observations made over this 11 year period of record. Additionally, the 4-6 cfs and 6-8 cfs flow ranges account for 17 percent and nine percent of the flows, respectively. In total, the 2-8 cfs flow range accounts for 72 percent of the recorded streamflows in Miners Ravine for the observation period.

Current Place of Use and Purpose of Use

Treated wastewater is discharged into Miners Ravine from the SMD 3 WWTP; the mean daily discharge of treated effluent over the previous 18 year period of record (January 1994 through December 2011) is 0.163 cfs (n=6575). The water discharged into Miners Ravine at the SMD 3 WWTP is not part of any purchase agreement for reuse of reclaimed water downstream.

There are five active water rights on Miners Ravine downstream of the SMD 3 POD, and three along Dry Creek, between the SMD 3 WWTP and the Dry Creek WWTP. Of these rights, only three were established after the construction of the SMD 3 WWTP in 1962 (**Figure 1**). As such, only these three rights (post-1962) have the potential to be affected by the decommissioning of the discharge which was present as a source of water in Miners Ravine at the date of permit issuance by the State Water Resources Control Board-Division of Water Rights (Division). These rights are comprised of two riparian statements of diversion and use (S012496 and S016073) and one Appropriative License (A024888) which are described in greater detail below.

A024888-Miners Ravine

Application 24888, permitted by the Division in September of 1975, allows for 1.0 acre foot per-annum (afa) to be collected from Miners Ravine from November 1 of each year to April 1 of the succeeding year, and that the maximum withdrawal in any one year shall not exceed 0.5 af. No direct diversion rate is specified in this permit. As such, for the purposes of this analysis, the rate of diversion is applied equally over the season of diversion to account for 0.5 af of collection in November and December of each year and 0.5 af of collection in January, February and March of each year consistent with the permit. This equates to a 0.004 cfs rate of diversion for November and December and a .0025 cfs rate of diversion in January, February and March, respectively. The license authorizes for the beneficial use of the water for fire protection, recreation, and irrigation of 0.6 acre within the SE $\frac{1}{4}$ of the NE $\frac{1}{4}$ of Section 24, T11N, and R7E, MDBM which is approximately 0.25 mile downstream from the SMD 3 POD.

These rates of diversion would account for .08 percent of the 10 year average daily stream flow (5.13 cfs) in Miners Ravine for November and December and 0.04 percent of the 10 year average daily streamflow (5.13 cfs) from January through March, respectively, which includes an average of 0.2 cfs of treated effluent from the SMD 3 WWTP. Based on the small percentage of water that this permit requires, the decommissioning of the SMD 3 WWTP will not affect this appropriative right. A Hydrologic Study (Appendix I of **Attachment 2**) was prepared for the project and contains additional information with regard to the decommissioning of the SMD 3 facility and the potential affect to anadromous fisheries resources.

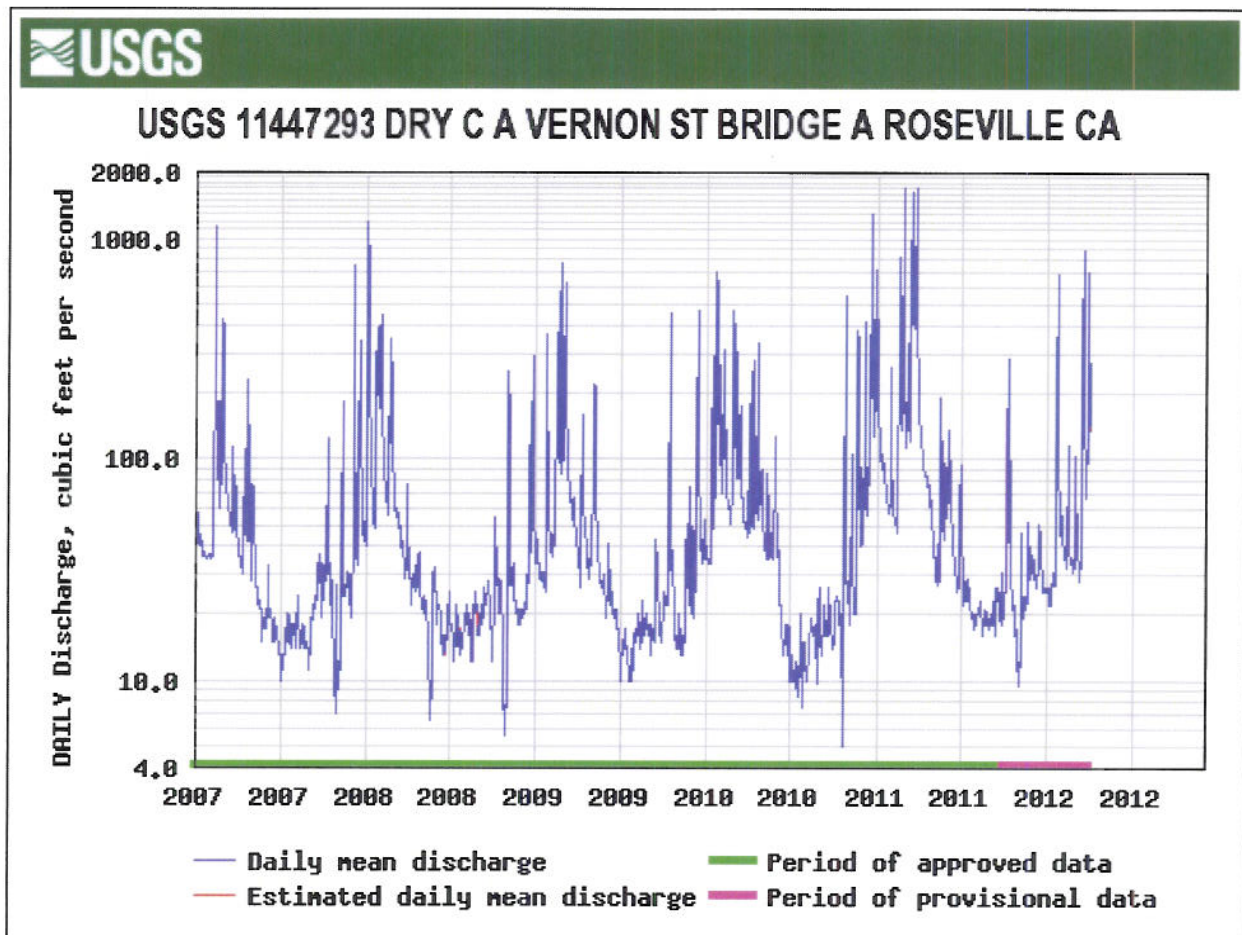
S012496-Miners Ravine

Statement 12496 consists of a Statement of Diversion and Use first exercised under riparian right in 1985. The data available from the Division's public water rights database (eWRIMS) for this statement indicates that this riparian right was established at 8000 gallons per day (gpd). Currently, as reported in the 2010 Statement of Diversion and Use submitted to the Division in 2011, only 90 gallons per year was diverted. As noted in the 2011 statement, this reduction in water use is based on a decrease in the number of individual family members occupying the residence. As such, the current amount of water

used under S012496 is negligible as only one-hundredth of one cfs (0.01) would be diverted if all 90 gallons were collected over a single day, and none over the remainder of the year.

S016073-Dry Creek

Statement 16073 consists of a Statement of Diversion and Use first exercised under riparian right in 2007. The data available from the Division's public water rights database (eWRIMS) for this statement is limited and indicates that this riparian right was established at a 0.22 cfs rate of direct diversion for irrigation and frost protection. Based on the purpose of use it can be presumed that this rate of diversion is constant during the generalized frost and irrigation season (March through September). As shown below, the USGS Dry Creek at Vernon Street stream gauge (approximately 0.5 miles upstream of S016073) indicates a range of flows, on average between 16 and 165 cfs in Dry Creek during the frost and irrigation season. At base summer flows in July (16 cfs) a 0.22 cfs rate of diversion would account for approximately 1.4 percent of the stream flow at the point of diversion for S016073 both with and without the 18 year average daily SMD 3 effluent discharge (0.163 cfs) based on the magnitude of base summer stream flows in Dry Creek. Based on the foregoing analysis, it can be confidently stated that the removal of the SMD 3 effluent discharge, would not appreciably affect the availability of water during the presumed season of diversion under S016073 based on the magnitude of stream flows observed in Dry Creek during the summer base flow period (July) as shown in the USGS gauge data below.



Proposed Point of Discharge, Place of Use, and Effluent Flows

The SMD 3 Regional Sewer Project is planned to be complete by December 2014. Construction of the pump station and Phase I force main is expected to occur between October 2012 and May 2014, allowing the existing SMD 3 WWTP to be taken off-line by May 2014. After the new facilities are fully operational, decommissioning of the SMD 3 WWTP will begin during the summer and fall of 2014 and is expected to take approximately 4 months.

Additionally, the Dry Creek WWTP is fully designed for, and connected to, the City of Roseville's Recycled Water Distribution System (RWDS) (**Figure 1**). This system provides approximately 1,709 acre-feet per year (ac-ft/yr) to existing recycled water consumers within the city limits and is designed for a full build out capacity of 4,500 ac-ft/yr¹. The current recycled water demand at the Dry Creek WWTP equates to approximately 2.36 cfs on a continuous year-round basis.

It is presumed that some portion of the SMD 3 discharge would be utilized for recycled water re-use while the remaining portion would be treated and discharged directly to Dry Creek. Based on the foregoing discussion relative to the average dry weather base stream flows (July) in Dry Creek (16 cfs) over the last seven years (2007-2012), it can be stated that the change in the magnitude of flows when looking at the ADFW from the SMD 3 WWTP (0.11 mgd or 0.2 cfs) would be insignificant.

The ADFW treated at the Dry Creek WWTP is currently 11 mgd. Of this, approximately 1.5 mgd (on average) is dedicated to recycled water reuse² leaving approximately 9.5 mgd remaining for effluent discharge to Dry Creek. This equates to approximately 17.7 cfs of effluent discharge into Dry Creek during the summer low flow period. When considering the ADFW of the SMD 3 WWTP of 0.11 mgd (0.2 cfs), the contribution to the discharge would be 1.1 percent of the total effluent discharge, on average.

Additionally, when considering the magnitude of natural stream flows in Dry Creek (16 cfs) during these base flow periods, the proportion of total stream flow would be 0.6 percent of the total stream flow in Dry Creek when combining the average daily discharge of effluent from the Dry Creek WWTP.

A detailed Hydrologic Study (Appendix I of **Attachment 2**) was completed as part of the CEQA review process for the project assessing the potential effect from the cessation of the SMD 3 effluent flows to anadromous salmonids based on specific life history requirements. Based on the modeled changes in depth identified in the Hydrologic Study, a 0.1 to 0.3 cfs flow reduction from the elimination of the SMD 3 WWTP discharge (accounting for 80 percent of the effluent discharges over the 18 year period of record) would equate to a change in depth of between 0.004 and 0.007 feet within Miners Ravine, respectively. The Hydrologic Study compared these modeled reductions to the associated depth requirements for the steelhead life history and determined that the elimination of effluent discharge to Miners Ravine will have a negligible effect to the downstream reaches of Miners Ravine with regard to changes in depth and associated life history requirements for the Central Valley steelhead trout distinct population segment and other salmonids. The effluent discharge from SMD 3 does not appreciably contribute to stream flows or the stage discharge relationships analyzed in Miners Ravine.

Conclusion

Based on the foregoing analysis, the decommissioning of the SMD 3 WWTP would not adversely affect existing downstream water rights holders (post-1962) or the beneficial uses existing in the Dry Creek watershed downstream from the proposed POD at the Dry Creek WWTP.

References

¹ City of Roseville General Plan 2025 Public Facilities Element, Adopted May 5, 2010.

² City of Roseville General Plan 2025 Public Facilities Element, Adopted May 5, 2010.

ATTACHMENT 2

A PDF version of Attachment 2 - Final EA/EIR and Draft EA/EIR is included on the attached CD.

ATTACHMENT 3

ATTACHMENT 4

A PDF version of Attachment 4 – Cultural Report is included on the attached CD.