

**Notice of Completion & Environmental Document Transmittal**

Mail to: State Clearinghouse, P.O. Box 3044, Sacramento, CA 95812-3044 (916) 445-0613  
 For Hand Delivery/Street Address: 1400 Tenth Street, Sacramento, CA 95814

SCH #

**Project Title:** Well No. 38 Arsenic Treatment

Lead Agency: City of Turlock Contact Person: Fallon Martin, Staff Services Analyst  
 Mailing Address: 156 S Broadway Phone: (209) 668-5590  
 City: Turlock Zip: 95380 County: Stanislaus

**Project Location:** County: Stanislaus City/Nearest Community: Turlock  
 Cross Streets: W Christoffersen Parkway and Mountain View Road Zip Code: 95382

Longitude/Latitude (degrees, minutes and seconds): 37 ° 31 ' 48.59 " N / 120 ° 52 ' 51.54 " W Total Acres: 3.67

Assessor's Parcel No.: 087-026-005 Section: 04 Twp.: 05S Range: 10E Base: Ceres  
 Within 2 Miles: State Hwy #: 99 Waterways: N/A  
 Airports: N/A Railways: Union Pacific Schools: John H. Pitman High

**Document Type:**

- |   |  |                                    |  |
|---|--|------------------------------------|--|
| CEQA: <input type="checkbox"/> NOP              | <input type="checkbox"/> Draft EIR                 | NEPA: <input type="checkbox"/> NOI | Other: <input type="checkbox"/> Joint Document |
| <input type="checkbox"/> Early Cons             | <input type="checkbox"/> Supplement/Subsequent EIR | <input type="checkbox"/> EA        | <input type="checkbox"/> Final Document        |
| <input type="checkbox"/> Neg Dec                | (Prior SCH No.) _____                              | <input type="checkbox"/> Draft EIS | <input type="checkbox"/> Other: _____          |
| <input checked="" type="checkbox"/> Mit Neg Dec | Other: _____                                       | <input type="checkbox"/> FONSI     |  |

**Local Action Type:**

- |   |   |  |   |
|---|---|--|---|
| <input type="checkbox"/> General Plan Update    | <input type="checkbox"/> Specific Plan            | <input type="checkbox"/> Rezone                            | <input type="checkbox"/> Annexation     |
| <input type="checkbox"/> General Plan Amendment | <input type="checkbox"/> Master Plan              | <input type="checkbox"/> Prezone                           | <input type="checkbox"/> Redevelopment  |
| <input type="checkbox"/> General Plan Element   | <input type="checkbox"/> Planned Unit Development | <input type="checkbox"/> Use Permit                        | <input type="checkbox"/> Coastal Permit |
| <input type="checkbox"/> Community Plan         | <input type="checkbox"/> Site Plan                | <input type="checkbox"/> Land Division (Subdivision, etc.) | <input type="checkbox"/> Other: _____   |

**Development Type:**

- |   |  |
|---|--|
| <input type="checkbox"/> Residential: Units _____ Acres _____                                     | <input type="checkbox"/> Transportation: Type _____            |
| <input type="checkbox"/> Office: Sq.ft. _____ Acres _____ Employees _____                         | <input type="checkbox"/> Mining: Mineral _____                 |
| <input type="checkbox"/> Commercial: Sq.ft. _____ Acres _____ Employees _____                     | <input type="checkbox"/> Power: Type _____ MW _____            |
| <input type="checkbox"/> Industrial: Sq.ft. _____ Acres _____ Employees _____                     | <input type="checkbox"/> Waste Treatment: Type _____ MGD _____ |
| <input type="checkbox"/> Educational: _____   | <input type="checkbox"/> Hazardous Waste: Type _____           |
| <input type="checkbox"/> Recreational: _____  | <input type="checkbox"/> Other: _____                          |
| <input checked="" type="checkbox"/> Water Facilities: Type <u>water treatment plant</u> MGD _____ |  |

**Project Issues Discussed in Document:**

- |  |  |   |  |
|--|--|---|--|
| <input type="checkbox"/> Aesthetic/Visual                    | <input type="checkbox"/> Fiscal                                | <input type="checkbox"/> Recreation/Parks                           | <input checked="" type="checkbox"/> Vegetation               |
| <input type="checkbox"/> Agricultural Land                   | <input checked="" type="checkbox"/> Flood Plain/Flooding       | <input checked="" type="checkbox"/> Schools/Universities            | <input checked="" type="checkbox"/> Water Quality            |
| <input type="checkbox"/> Air Quality                         | <input type="checkbox"/> Forest Land/Fire Hazard               | <input type="checkbox"/> Septic Systems                             | <input checked="" type="checkbox"/> Water Supply/Groundwater |
| <input checked="" type="checkbox"/> Archeological/Historical | <input checked="" type="checkbox"/> Geologic/Seismic           | <input checked="" type="checkbox"/> Sewer Capacity                  | <input type="checkbox"/> Wetland/Riparian                    |
| <input checked="" type="checkbox"/> Biological Resources     | <input type="checkbox"/> Minerals                              | <input checked="" type="checkbox"/> Soil Erosion/Compaction/Grading | <input type="checkbox"/> Growth Inducement                   |
| <input type="checkbox"/> Coastal Zone                        | <input checked="" type="checkbox"/> Noise                      | <input type="checkbox"/> Solid Waste                                | <input checked="" type="checkbox"/> Land Use                 |
| <input checked="" type="checkbox"/> Drainage/Absorption      | <input type="checkbox"/> Population/Housing Balance            | <input checked="" type="checkbox"/> Toxic/Hazardous                 | <input checked="" type="checkbox"/> Cumulative Effects       |
| <input type="checkbox"/> Economic/Jobs                       | <input checked="" type="checkbox"/> Public Services/Facilities | <input checked="" type="checkbox"/> Traffic/Circulation             | <input type="checkbox"/> Other: _____                        |

**Present Land Use/Zoning/General Plan Designation:**

Well site/Office Commercial and High Density Residential/High Density Residential and Office

**Project Description:** *(please use a separate page if necessary)*

Please see attached.

STATE CLEARINGHOUSE

FEB 07 2020

State's Office of Planning & Research

Note: The State Clearinghouse will assign identification numbers for all new projects. If a SCH number already exists for a project (e.g. Notice of Preparation or previous draft document) please fill in.

**Reviewing Agencies Checklist**

Lead Agencies may recommend State Clearinghouse distribution by marking agencies below with and "X".  
If you have already sent your document to the agency please denote that with an "S".

- |   |  |
|---|--|
| <input checked="" type="checkbox"/> Air Resources Board                 | <input type="checkbox"/> Office of Historic Preservation                     |
| <input type="checkbox"/> Boating & Waterways, Department of             | <input type="checkbox"/> Office of Public School Construction                |
| <input type="checkbox"/> California Emergency Management Agency         | <input type="checkbox"/> Parks & Recreation, Department of                   |
| <input type="checkbox"/> California Highway Patrol                      | <input type="checkbox"/> Pesticide Regulation, Department of                 |
| <input checked="" type="checkbox"/> Caltrans District # 10              | <input type="checkbox"/> Public Utilities Commission                         |
| <input type="checkbox"/> Caltrans Division of Aeronautics               | <input checked="" type="checkbox"/> Regional WQCB # 5                        |
| <input type="checkbox"/> Caltrans Planning                              | <input type="checkbox"/> Resources Agency                                    |
| <input type="checkbox"/> Central Valley Flood Protection Board          | <input type="checkbox"/> Resources Recycling and Recovery, Department of     |
| <input type="checkbox"/> Coachella Valley Mtns. Conservancy             | <input type="checkbox"/> S.F. Bay Conservation & Development Comm.           |
| <input type="checkbox"/> Coastal Commission                             | <input type="checkbox"/> San Gabriel & Lower L.A. Rivers & Mtns. Conservancy |
| <input type="checkbox"/> Colorado River Board                           | <input type="checkbox"/> San Joaquin River Conservancy                       |
| <input checked="" type="checkbox"/> Conservation, Department of         | <input type="checkbox"/> Santa Monica Mtns. Conservancy                      |
| <input type="checkbox"/> Corrections, Department of                     | <input type="checkbox"/> State Lands Commission                              |
| <input type="checkbox"/> Delta Protection Commission                    | <input type="checkbox"/> SWRCB: Clean Water Grants                           |
| <input type="checkbox"/> Education, Department of                       | <input checked="" type="checkbox"/> SWRCB: Water Quality                     |
| <input type="checkbox"/> Energy Commission                              | <input type="checkbox"/> SWRCB: Water Rights                                 |
| <input checked="" type="checkbox"/> Fish & Game Region # 4              | <input type="checkbox"/> Tahoe Regional Planning Agency                      |
| <input type="checkbox"/> Food & Agriculture, Department of              | <input type="checkbox"/> Toxic Substances Control, Department of             |
| <input type="checkbox"/> Forestry and Fire Protection, Department of    | <input checked="" type="checkbox"/> Water Resources, Department of           |
| <input type="checkbox"/> General Services, Department of                | <input type="checkbox"/> Other: _____  |
| <input type="checkbox"/> Health Services, Department of                 | <input type="checkbox"/> Other: _____  |
| <input type="checkbox"/> Housing & Community Development                |  |
| <input checked="" type="checkbox"/> Native American Heritage Commission |  |

**Local Public Review Period (to be filled in by lead agency)**

Starting Date \_\_\_\_\_ Ending Date \_\_\_\_\_

**Lead Agency (Complete if applicable):**

Consulting Firm: <u>Provost &amp; Pritchard</u>	Applicant: <u>Fallon Martin, Staff Services Analyst</u>
Address: <u>286 W Cromwell Avenue</u>	Address: <u>156 S Broadway</u>
City/State/Zip: <u>Fresno Ca 93711</u>	City/State/Zip: <u>Turlock Ca 95380</u>
Contact: <u>Briza Sholars</u>	Phone: <u>(209) 668-5590</u>
Phone: <u>(559) 449-2700</u>	

Signature of Lead Agency Representative: Adrienne Werner Date: 2-3-2020

Authority cited: Section 21083, Public Resources Code. Reference: Section 21161, Public Resources Code.

## **Project Description: City of Turlock Well No. 38 Arsenic Treatment Project**

The City of Turlock proposes implementing an iron-assisted coagulation filtration plant to treat the water contaminated with arsenic at Well 38. This system will include chemical pretreatment, pressure vessels with filter media, an equalization tank, and a backup generator. There will also be a chemical enclosure constructed at the site composed of a concrete pad, chain link fence, and a metal roof. The City will expand system water storage by installing a one-million-gallon storage tank at the site. If the well must be remediated for 1,2,3-Trichloropropane in the future, granular activated carbon (GAC) vessels may be added at the site.

The immediate system improvements will include the following:

- Three quantity 12-foot diameter vertical pressure filters
- Equalization tank
- Emergency generator
- Chemical storage enclosure
- Paved access driveway and additional site paving
- New water lines
- Wrought iron perimeter fence
- Sidewalk along Mountain View Road
- Landscaping along exterior north, east, south sides of perimeter wall
- One-million-gallon storage tank
- Pump station for storage tank
- Demolish existing storage shed
- Construct new shed of same size in different location; a bathroom may be added to the building

Estimated dimensions and details are listed below:

- *Vertical pressure filters (three total): 12' diameter; 15' tall*
- *Concrete pad for filters: 1,375 sq. ft*
- *Equalization tank: coned bottom, 21' diameter*
- *Diesel-fueled emergency generator*
- *Chemical storage enclosure: metal roof, chain-link fence sides, concrete pad and containment curbs*
- *800' water piping in various diameters*
- *Storage tank: 86' diameter, recessed to not exceed 24' tall*
- *Pump station: 3,000 sq. ft*
- *GAC vessels (10 total): 12' diameter (if needed in future)*
- *Concrete pad for GAC vessels: 3,000 sq. ft (if needed in future)*

The treatment process would take place as follows: chemical pretreatment in the form of injection will occur in the pipeline prior to entering the filter vessels. Sulfuric acid will be added to reduce the pH of the water and sodium hypochlorite will be injected as a pre-oxidant. Ferric chloride will then be added to solidify the arsenic in the water and further lower the pH. The water will then enter the vertical pressure filters containing manganese dioxide media. When the well is pumping at its maximum capacity of 3,000 gpm the filters will have a hydraulic loading rate of 8.8 gpm/ft<sup>2</sup>. After filtration, the water will be dosed with sodium hydroxide to reduce its corrosivity and to bring the pH back up to raw water levels before it enters the City's distribution system.

Each filter will be backwashed at a rate of 2,262 gpm for four minutes and then flushed to waste at 1,000 gpm for one minute before discharging back to the system. Water for the filter backwash will be provided

by the other two filters, and water from the City's system will make up the difference. The backwash and rinse water will be temporarily held in the equalization tank that will discharge into the City sewer system at approximately 100 gpm. The system will backwash approximately every 12 hours.

#### Construction/Operation and Maintenance

Construction of the Project is anticipated to be completed within 10 months, which will include grading and construction of the water treatment system. Construction is planned from May 2020 to conclude by the beginning of 2021. Equipment will likely include an excavator, backhoe/loader, concrete truck, and concrete pumper. Generally, construction will occur between the hours of 7:00 am and 7:00pm, Monday through Friday, excluding holidays. Post-construction activities will include system testing, commissioning, and site clean-up. Construction will require temporary staging and storage of materials and equipment. Staging areas will be located onsite. Although construction is not expected to generate hazardous waste, field equipment used during construction has the potential to contain various hazardous materials such as diesel fuel, hydraulic oil, grease, solvents, adhesives, paints, and other petroleum-based products. Operation and maintenance of the system components at the Well No. 38 site will continue to be performed by the City of Turlock's existing staff.