Print From

Summary Form for Electronic Document Submittal

Form F

Lead agencies may include 15 hardcopies of this document when submitting electronic copies of Environmental Impact Reports, Negative Declarations, Mitigated Negative Declarations, or Notices of Preparation to the State Clearinghouse (SCH). The SCH also accepts other summaries, such as EIR Executive Summaries prepared pursuant to CEQA Guidelines Section 15123. Please include one copy of the Notice of Completion Form (NOC) with your submission and attach the summary to each electronic copy of the document.

SCH #: _____

Project Title: Well No. 38 Arsenic Treatment

Lead Agency: City of Turlock

Contact Name: Fallon Martin, Staff Services Analyst

Email: FaMartin@turlock.ca.us Phone Number: (209) 668-5590

Project Location: City of Turlock in Stanislaus County

City *County*

Project Description (Proposed actions, location, and/or consequences).

Please see attached Project Description.

Identify the project's significant or potentially significant effects and briefly describe any proposed mitigation measures that would reduce or avoid that effect.

Please see attached MMRP.

Revised September 2011

If applicable, describe any of the project's areas of controversy known to the Lead Agency, including issues raised by agencies and the public.

No known areas of controversy have been raised by the public or agencies. Potential impacts have been addressed to a less than significant level through the implementation of mitigation measures. Please see attached MMRP.

Provide a list of the responsible or trustee agencies for the project.

State Water Board.

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^2. 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.

Table 4-1. Mitigation Monitoring and Reporting Program

Mitigation Monitoring and Reporting Program					
Mitigation Measure/Condition of Approval	**When Monitoring is to Occur**	**Frequency of Monitoring**	**Agency Responsible for Monitoring**	**Method to Verify Compliance**	**Verification of Compliance**
Biological Resources					
Mitigation Measure BIO-1a: Avoidance					
The Project's construction activities shall occur, if feasible, between September 16 and January 31 (outside of nesting bird season) in an effort to avoid impacts to nesting birds.	Prior to construction	During nesting season	City of Turlock		
Mitigation Measure BIO-1b: Pre-Construction Survey					
If activities must occur within nesting bird season (February 1 to September 15), a qualified biologist shall conduct pre-construction surveys for active nests within 30 days prior to the start of construction. The survey shall include the proposed work area and surrounding lands within 0.5 mile. If no active nests are observed, no further mitigation is required. Raptor nests are considered "active" upon the nest-building stage.	Prior to construction	During nesting season	City of Turlock		
Mitigation Measure BIO-1c: Establish Buffers					
On discovery of any active nests near work areas, the biologist shall determine appropriate construction setback distances based on applicable CDFW and/or USFWS guidelines and/or the biology of the species in question. Construction buffers shall be identified with flagging, fencing, or other easily visible means, and shall be maintained until the biologist has determined that the nestlings have fledged.	Prior to and during construction	During nesting season	City of Turlock		

Mitigation Monitoring and Reporting Program					
Mitigation Measure/Condition of Approval	**When Monitoring is to Occur**	**Frequency of Monitoring**	**Agency Responsible for Monitoring**	**Method to Verify Compliance**	**Verification of Compliance**
Cultural Resources					
Mitigation Measure CUL-1: Archaeological Resources					
In the event that archaeological resources are encountered at any time during development or ground-moving activities within the entire project area, all work in the vicinity of the find shall halt until a qualified archaeologist can assess the discovery. The District shall implement all recommendations of the archaeologist necessary to avoid or reduce to a less than significant level potential impacts to cultural resource. Appropriate actions could include a Data Recovery Plan or preservation in place.	In the event archaeological resources are uncovered	During excavation	City of Turlock		
Mitigation Measure CUL-2: Human Remains					
If human remains are uncovered, or in any other case when human remains are discovered during construction, the Tulare County Coroner is to be notified to arrange proper treatment and disposition. If the remains are identified—on the basis of archaeological context, age, cultural associations, or biological traits—as those of a Native American, California Health and Safety Code 7050.5 and Public Resource Code 5097.98 require that the coroner notify the NAHC within 24 hours of discovery. The NAHC would then identify the Most Likely Descendent who would determine the manner in which the remains are treated.	In the event human remains are uncovered	During excavation	City of Turlock		