

Eastern Sierra Unified School District Coleville High School Water Project

Project Description

Two on site wells, which are the sole water source for the campus, will pump to a new 40x60 maintenance building for treatment and storage. This structure will house the three storage tanks, ion exchange unit, booster pumps, pump controls, back flow preventer, extra storage, etc. Raw water will be pumped into a 6800 gallon storage tank (A). This tank will provide the source water for irrigation and treatment. Water to be treated will be pumped from tank "A" at a rate of 10 gpm through the Ion exchange unit containing a strong base type 1 resin (A600 Purolite). This resin will remove the uranium and the treated water will be stored in two 6800 gallon tanks. This storage capacity will provide the campus with a minimum of four days of potable water at the current usage of 3500 gallons per day. The 20,000 plus gallons of stored water (treated and raw) will also be available at two new fire hydrates for emergency fire protection.



The following work either has been completed or is in process and will be completed prior to any awards. Design/Engineering of the water treatment **ion exchange units** that will be used to remove the uranium from the water have been completed. REMCO the company that designed the treatment units has also constructed them and the unit is currently stored at the Coleville campus. The **technical report** required by California

Department of Public Health has been completed by R.O. Anderson Engineering. This report describes the current water system, water supply, and the water quality. It also outlines the overall concept of how the water quality problem will be mitigated. This report was the fundamental blue print for the final architectural and engineering design. There are some changes in the approved plans for the construction of the new water treatment system, these changes have only enhanced the original technical report design. The **Geotechnical investigation** has also been completed by Sierra Geotechnical Services. All **plans and specification** have been prepared by Aspen Street Architects and R.O. Anderson engineering and have been approved by the Division of State Architects (DSA). The categorical exemption for CEQA is complete.



6800 gallon water storage tanks



New building facility

Press Release: Coleville High School Water Project Underway



June 21, 2012 – The Coleville High School Water Project, which is being jointly funded by the California Department of Water Resources (CA DWR), the California Department of Public Health (CDPH) and the Eastern Sierra Unified School District, recently broke ground on the school campus in Coleville, CA. CA DWR and CDPH funding comes from Proposition 84 bonds, which were approved by voters in 2006 to support water supply, water quality, and natural resource protection. More specifically, the CA DWR funding was provided through the Inyo-Mono

Integrated Regional Water Management Program (IRWMP), which has been working to secure funding for water projects in the region since 2008. In 2011, the Inyo-Mono IRWMP was awarded a grant of \$1,075,000 to fund seven on-the-ground projects that support improvements in water supply and water quality in Inyo and Mono Counties.

The objectives of the Coleville High School Water Project are two-fold: (1) to remove uranium, which currently exceeds the State drinking water standard, and (2) to provide storage capacity for both the school and local emergency fire protection needs. An ion exchange unit will be used to remove the uranium. Three 6,800-gallon storage tanks will be installed (one for raw water; two for treated water) and will provide the campus with a minimum of four days of potable water. This water will also be available for fire protection via two new fire hydrants.

Work on the project began in early June. It is expected that the project will be mostly complete by fall, 2012. A small project kick-off ceremony was held on June 4, 2012.



Press Release: Coleville High School Water Project Complete

April 15, 2013 - The Inyo-Mono Integrated Regional Water Management Program (IRWMP) and the Eastern Sierra Unified School District (ESUSD) are pleased to announce the completion of the Coleville High School Water Project. This project, which was started in June 2012, installed an ion exchange unit to remove uranium from the school's source water and installed three water tanks to increase water storage capacity.



Many water sources in the eastern Sierra contain naturally-occurring metals such as uranium and arsenic, requiring water managers to treat water to meet water quality standards. Prior to this project, bottled water was the only potable water source for Coleville School students and faculty.

The objectives of the Coleville High School Water Project were to remove uranium from the source water, which exceeded

the State drinking water standard, and to provide storage capacity for both the school and local emergency fire protection needs. In addition to the ion exchange unit being used to remove uranium, three 6,800-gallon storage tanks have been installed (one for raw water; two for treated water) to provide the campus with a minimum of four days of potable water. This water is also available for fire protection via two new fire hydrants.

Dan Jenkins, ESUSD Project Manager, praised the project as a culmination of more than six years of work among the School District, the California Department of Water Resources (DWR), the California Department of Public Health (CDPH), and area engineers to find and implement a cost-effective solution for treating uranium in the school's wells.

The construction of the project included erecting a new building to the west of the Coleville High School football field to house the equipment. The final inspection of the new equipment took place in March, and treated water is now being made available to the school for consumption.

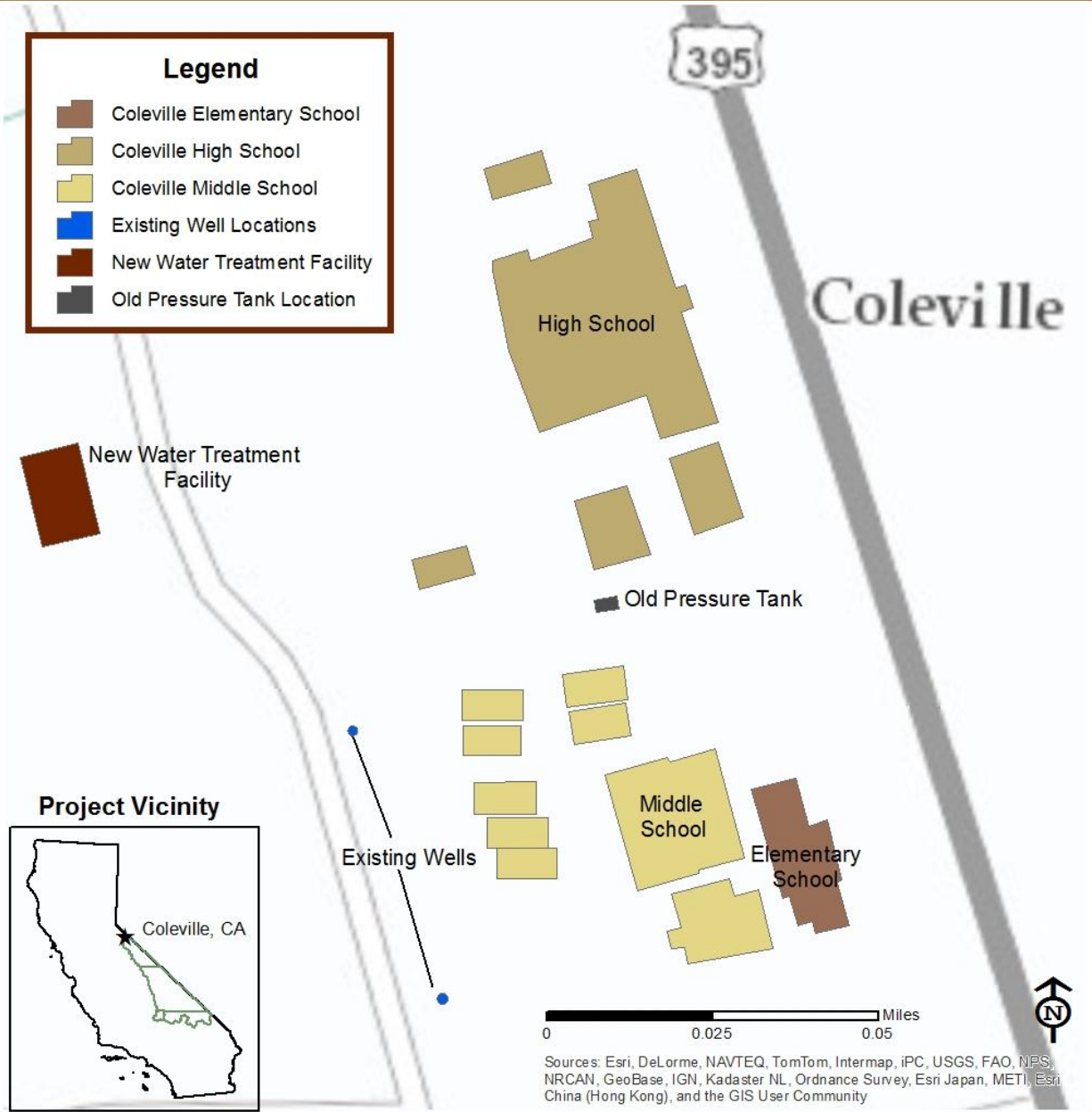
Funding for the project was provided by ESUSD and two Proposition 84 grants administered through the California DWR and the CDPH. Proposition 84 was approved by voters in 2006 to support water supply, water quality, and natural resource protection efforts. DWR funding was provided through the Inyo-Mono IRWMP, which has been working to identify water-related needs and secure funding for water projects in the region since 2008. In 2011, the Inyo-Mono IRWMP was awarded a grant of \$1,075,000 to fund seven on-the-ground projects that support improvements in water supply and water quality in Inyo and Mono Counties. The Coleville High School Project is the first of the seven to reach completion.

Coleville High School Water Project

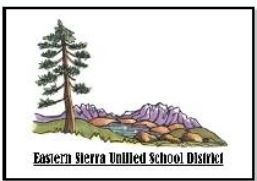
A project dedicated to bringing potable water to the school children of Coleville, CA

Legend

- Coleville Elementary School
- Coleville High School
- Coleville Middle School
- Existing Well Locations
- New Water Treatment Facility
- Old Pressure Tank Location



Sources: Esri, DeLorme, NAVTEQ, TomTom, Intermap, iPC, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), and the GIS User Community



Source Data: Inyo-Mono IRWMP, Esri Basemaps, 2013

Map: J.Hatfield 2013