

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: _____
 Lead Agency: _____ Contact Person: _____
 Mailing Address: _____ Phone: _____
 City: _____ Zip: _____ County: _____

Project Location: County: _____ City/Nearest Community: _____
 Cross Streets: _____ Zip Code: _____
 Longitude/Latitude (degrees, minutes and seconds): _____° _____' _____" N / _____° _____' _____" W Total Acres: _____
 Assessor's Parcel No.: _____ Section: _____ Twp.: _____ Range: _____ Base: _____
 Within 2 Miles: State Hwy #: _____ Waterways: _____
 Airports: _____ Railways: _____ Schools: _____

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 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 type="checkbox"/> Water Facilities: Type _____ MGD _____	

Project Issues Discussed in Document:

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

Present Land Use/Zoning/General Plan Designation:

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

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 an "X".
If you have already sent your document to the agency please denote that with an "S".

<input 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 type="checkbox"/> Caltrans District # _____	<input type="checkbox"/> Public Utilities Commission
<input type="checkbox"/> Caltrans Division of Aeronautics	<input type="checkbox"/> Regional WQCB # _____
<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 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 type="checkbox"/> SWRCB: Water Quality
<input type="checkbox"/> Energy Commission	<input type="checkbox"/> SWRCB: Water Rights
<input type="checkbox"/> Fish & Game Region # _____	<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 type="checkbox"/> Water Resources, Department of
<input type="checkbox"/> General Services, Department of	
<input type="checkbox"/> Health Services, Department of	<input type="checkbox"/> Other: _____
<input type="checkbox"/> Housing & Community Development	<input type="checkbox"/> Other: _____
<input 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: _____	Applicant: _____
Address: _____	Address: _____
City/State/Zip: _____	City/State/Zip: _____
Contact: _____	Phone: _____
Phone: _____	

Signature of Lead Agency Representative: _____ Date: _____

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

1.0 PROJECT DESCRIPTION

1.1 Project Background

In August 2009, the California Office of Environmental Health Hazard Assessment established a California Public Health Goal (PHG) for the Synthetic Organic Chemical 1,2,3-trichloropropane (TCP) of 0.0007 µg/L (0.7 Parts Per Trillion [ppt]) based on carcinogenicity, or the ability to produce cancer. This is the second lowest California PHG among all drinking water contaminants. In July 2017, the State Water Resources Control Board (SWRCB) adopted a regulation with a Maximum Contaminant Level (MCL) of 5 ppt (0.005 µg/L) for TCP, which became effective in December 2017.

The City of Manteca has a population of approximately 86,928 people. The City's water system provides potable water to both residential and commercial customers within an approximately 18-square-mile area through approximately 23,436 service connections. The City's entire water supply is extracted from 15 groundwater wells and treated surface water purchased from the South San Joaquin Irrigation District. The City's water is supplied to customers through a water distribution system operated as a single pressure zone.

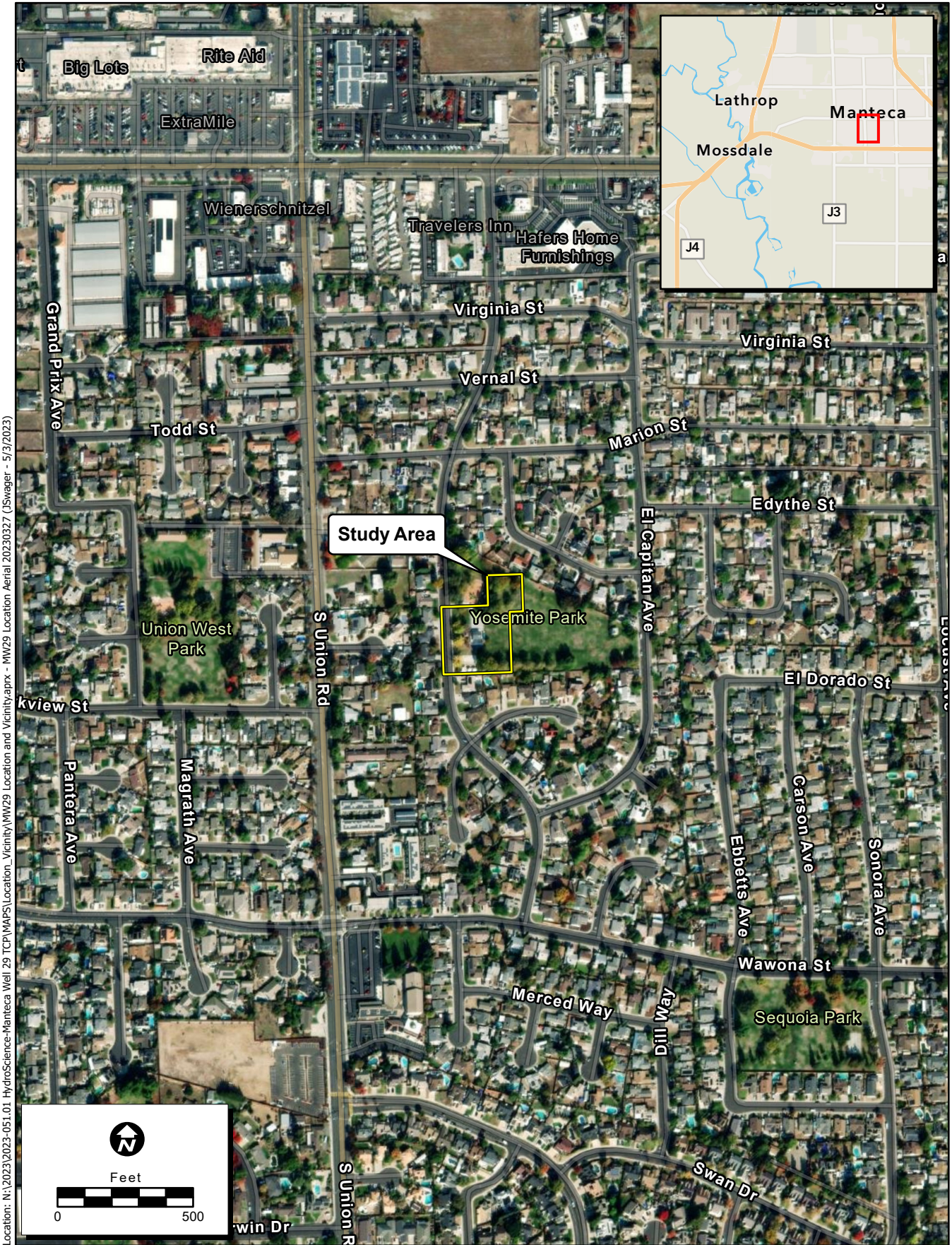
The City of Manteca Department of Public Works Water Division began sampling the City's groundwater wells for compliance with the TCP MCL in January 2018 and in April 2021 the City received Compliance Order No. 01-10-21R-002 to provide TCP treatment for Well 29 by April 2024.

1.2 Project Objectives

The objective of this project is to construct a Granular Activated Carbon (GAC) water treatment system to treat the water produced by Well 29 to remove TCP to achieve a treated water concentration that complies with California SWRCB Compliance Order No. 01-10-21R-002. This Order requires compliance with CCR, Title 22, Section 64444 on or before April 10, 2024. The MCL for TCP is 0.005 µg/L.

1.3 Project Characteristics

The Project Site currently contains a well house, emergency diesel generator, a backwash tank, and two arsenic filter vessels. The filters will continue to be used to remove arsenic. Well 29 is connected at two locations to the distribution system; one connection is located west of the well site at El Portal Avenue and the other connection is located to the east at El Capitan Avenue as shown in Figure 1. Well 29 has a deep well turbine pump that produces 2,000 Gallons Per Minute (gpm) at 50 pounds per square inch. During normal operation, a Variable Frequency Drive (VFD) operates the pump as determined by system demand. The VFD is controlled by a Programmable Logic Controller (PLC). The PLC receives a call to run, then signals the VFD to start the pump and run at the flow rate needed to maintain a preset system pressure. The PLC also starts the sodium hypochlorite metering pump and flow paces the sodium hypochlorite metering pump to match the well flow. A portion of the pump discharge flow is diverted into the arsenic filters through the use of a *blending* valve.



Map Date: 5/3/2023
 Sources: ESRI, Hydroscience, Maxar (2022)

Figure 1. Project Location and Vicinity

The amount of water to be treated by the arsenic filters has been predetermined, based on the arsenic concentration in the source water and the desired arsenic level in the blended effluent (the water leaving the well facility must have an arsenic concentration <10 Parts per Billion or ug/L).

The Proposed Project has two layout options: Proposed Site Layout- Option A and Alternative Site Layout- Option B. Components of these two options are detailed below and summarized in Table 1.

Layout Option A would place six new 12-foot-diameter GAC treatment vessels directly to the east of the existing well site (Figure 2-1) on a concrete pad measuring 40 by 60 feet. The new GAC system would tie into the existing Well 29 raw water discharge pipe, prior to arsenic treatment, via two new 12-inch pipes that would run approximately 90 feet southwest. The new GAC vessels would discharge backwash waste into an 8-inch pipe running approximately 255 feet from the GAC vessels to the existing backwash tank located adjacent to the arsenic treatment system. The existing site fencing would be extended around the new treatment facility, and two 16-foot sliding gates would be added for maintenance access. The hypochlorite injection point for potable water disinfection would be relocated from the existing wellhead to an above-grade injection point after the GAC treatment system. A connection to the existing sanitary sewer system would be made in the street adjacent to the site with a new sanitary sewer manhole. An additional sanitary sewer manhole and drain lines would be installed onsite for collecting wash water from the backwash process and excess water that must be drained during media change-outs from the GAC delivery truck. Media change outs are completed by sending a water and media slurry from the treatment vessels to the GAC delivery trucks. Excess water must be drained from the trucks after the slurry pumping operation is completed and before the truck may depart. The water utilized to generate the slurry is potable water. The existing driveway would be widened by 14 feet and additional pavement added to accommodate the truck turning radius. Option A would require removal of one ornamental tree located at the southeast corner of the existing well 29 footprint.

Layout Option B would include the majority of the same infrastructure as Layout Option A but would be located directly north of the existing well site (Figure 2-2). Due to the location of Option B, a new 16-foot-wide access driveway would be required just north of the new infrastructure. Since this Layout Option would be placed where the existing basketball court is located, a new basketball court would be constructed east of the existing playground (Figure 2-2). Option B would not require tree removal as a part of the Proposed Project.

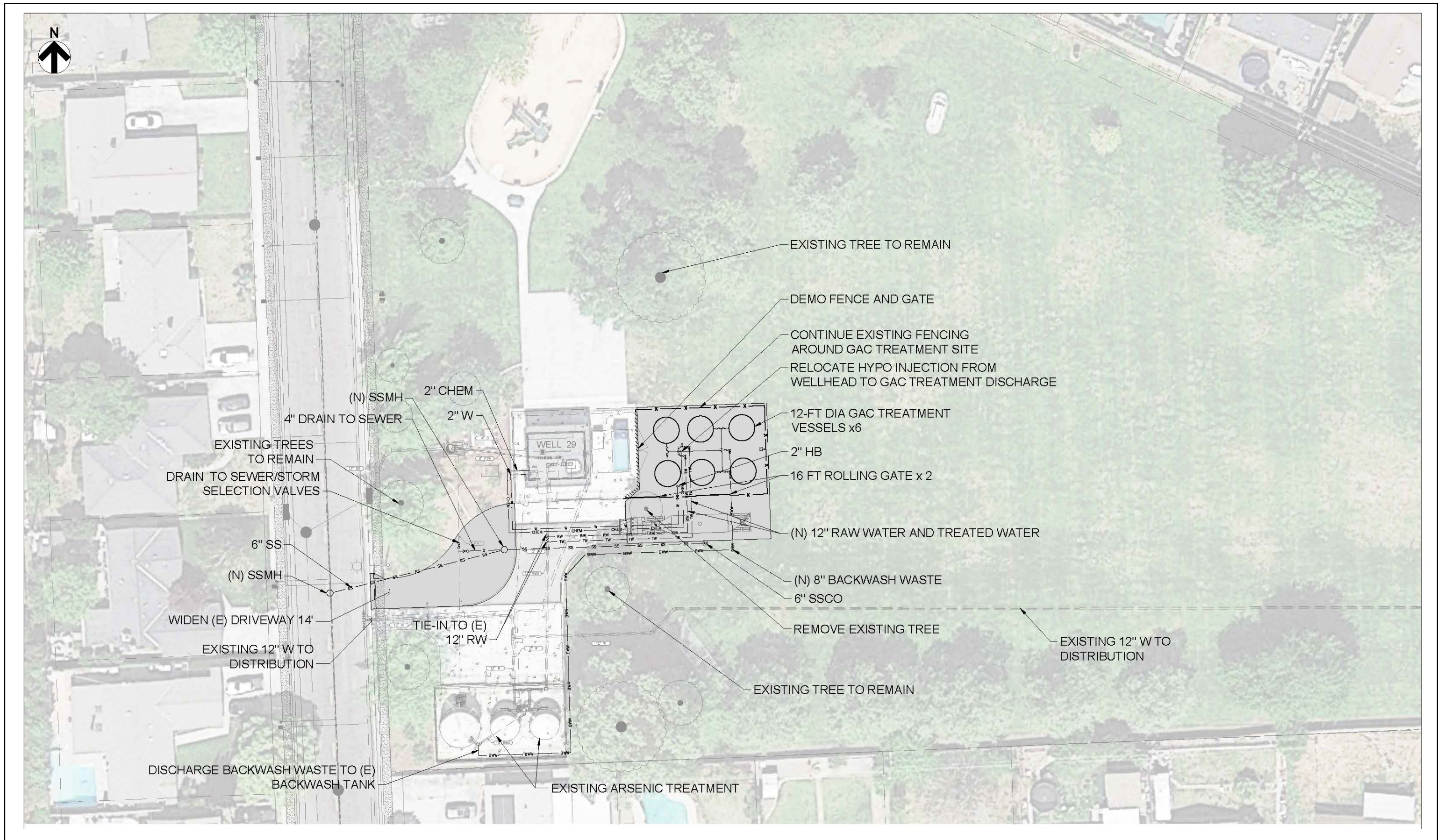
Table 1. Proposed Project Components			
Layout	New Component or Feature	Size	Within Existing Footprint?
Option A	Concrete pavement	5,700 Square Feet (sf)	No, located adjacent on expanded site within existing City property. All new tanks and fencing would be adjacent to and
	Perimeter fence, iron ornamental, with gates	180 Linear Feet (LF), 7 feet high	
	GAC filter tanks, welded painted steel	Each: 10,000 gallon 18.3 feet tall by 12 feet diameter; quantity of 6	

Table 1. Proposed Project Components			
Layout	New Component or Feature	Size	Within Existing Footprint?
	Buried yard piping	8-12 inches diameter, 470 LF	outside of existing fenced area
	Above-grade piping	8-12 in diameter, 120 LF	
	Landscaping	Trees and shrubs around portion of perimeter for screening purposes	
Option B	Concrete pavement	6,800 sf	No, located adjacent on expanded site within existing City property.
	Perimeter fence, iron ornamental, with gates	145 (linear feet) LF, 7 feet high	
	GAC filter tanks, welded painted steel	Each: 10,000 gallon 18.3 feet tall by 12 feet diameter; quantity of 6	All new tanks and fencing would be adjacent to and outside of existing fenced area
	Buried yard piping	8-12 inches diameter, 670 LF	
	Above-grade piping	8-12 inches diameter, 120 LF	
	Landscaping	Trees and shrubs around portion of perimeter for screening purposes	

1.4 Project Timing

Table 2 summarizes the proposed construction activities, construction footprint, change in impervious surfaces, estimated construction vehicle trips, equipment and the Project schedule required to implement the project. The information presented in Table 2 represents a conservative estimate of Project construction requirements. Demolition would include removal of some existing landscaping and fencing. Some minor saw-cutting of concrete/curbs would be required for tying in of underground utilities. Off-haul of approximately 50 cubic yards of material is anticipated.

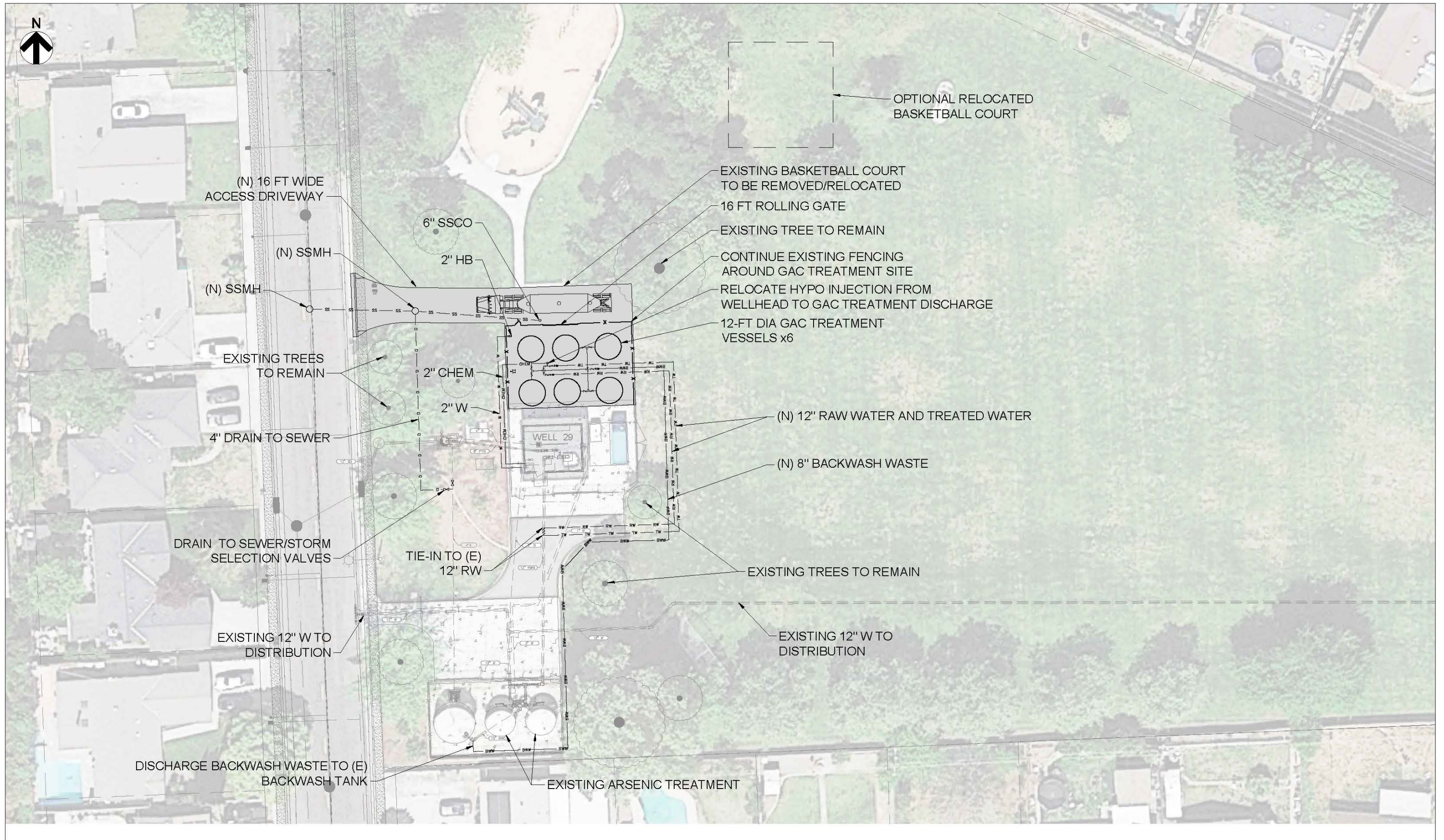
Table 2. Proposed Project Components							
Layout	Construction Tasks	Disturbance Area		Increase in Impervious Surface (above existing conditions)	Construction Vehicle Trips, Haul/Delivery Truck Trips	Estimated Construction Equipment (Quantity and Duration)	Construction Duration
		Temporary Disturbance Area (Mobilization/ laydown area)	Permanent Disturbance Area				
Option A	<ul style="list-style-type: none"> • Demolition of landscaping and fences. • Clearing & grubbing. • Site grading. • Underground utility piping. • Underground electrical conduit installation. • Underground piping in public streets. • Concrete forming and rebar placement. • Pouring concrete slabs and footings. • Placement of above ground piping and filter vessels. 	33,000 SF	8,100 SF	5,600 SF	<ul style="list-style-type: none"> • 12 worker vehicles per day • 8 truck trips per day 	<ul style="list-style-type: none"> • Work trucks (2 per day) • Possibly a crane (if not, a boom truck) (1 day) • Backhoe/ skip loader/ front loader (2 weeks) • Concrete trucks (1-2 days) • Concrete pump (1-2 days) • Dump Truck (3 trips) • Vibratory Compaction Equipment 	February 2024-August 2024 (6 months)
Option B	Same as above	Same as above	6,900 SF	3,800 SF	Same as above	Same as above	Same as above



Source: HydroScience Engineers

Figure 2-1. Proposed Site Layout - Option A

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Source: HydroScience

Figure 2-2. Alternative Site Layout - Option B

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1.5 Regulatory Requirements, Permits, and Approvals

A summary of permits and approvals that could be required for Project implementation is provided below. Further regulatory approvals could be required in the event that local, county, state, or federal agencies determine that specific construction activities require additional permits or approvals.

Federal

- At this time, federal approvals do not appear to be required for project implementation.

State

- SWRCB, Division of Drinking Water: The City's water supply permit would need to be amended to include the addition of wellhead treatment and would require submittal of design plans. An operations plan would need to be submitted that covers the treatment plant.
- State Water Resources Control Board Division of Drinking Water (DDW) System Technical Report

Local

- City of Manteca City Council: adoption of the IS/MND and Mitigation Monitoring and Reporting Plan (MMRP) and approval of project.
- Encroachment Permit
- Hydrant Meter Permit
- Permission and/or Approval from the City for any tree removal.