

**2025
GROUNDWATER
MONITORING REPORT**

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Water Resources Department
Groundwater Resources Division

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- Cargill, Incorporated
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- City of Newark
- City of Union City
- Don Edwards San Francisco Bay National Wildlife Refuge
- East Bay Regional Park District
- Participating private well owners
- U.S. Fish and Wildlife

I. OVERVIEW

The Alameda County Water District's Spring 2025 Groundwater Monitoring Program was conducted during March and April 2025 and included 293 wells within the Niles Cone Groundwater Basin (Niles Cone Subbasin 2-09.01 or Niles Cone). Water levels were measured in 245 wells, and water samples were collected for chloride and total dissolved solids (TDS) analyses from 98 wells. The results from this effort and the status of the wells are documented in Appendix E.

The Fall 2025 Groundwater Monitoring Program, which included 295 wells, was conducted during August and September 2025. Water levels were measured in 245 wells, and water samples were collected for chloride and TDS analyses from 204 wells. In addition, 32 selected monitoring wells and 3 surface water locations were sampled for per- and polyfluoroalkyl substances (PFAS) analysis. The status of each well, water elevations, and water quality results are summarized in Appendix C, D, and F. Water elevation data were used to develop hydrographs to track water level trends over time and piezometric head contour maps which enable ACWD to approximate groundwater flow patterns within the Niles Cone. The direction of groundwater flow is generally toward the production wellfield in the Above Hayward Fault (AHF) sub-basin. The direction of groundwater flow is generally away from the recharge area in all three aquifers in the Below Hayward Fault (BHF) sub-basin. The overall changes in the groundwater basin's water quality due to saltwater intrusion were interpreted through the use of chloride and TDS concentration contour maps.

II. INTRODUCTION

For over 100 years, ACWD has managed the groundwater of the Niles Cone Groundwater Basin. ACWD's statutory authority for groundwater management is provided under the County Water District Law, the Replenishment Assessment Act of Alameda County Water District, and the Alameda County Water District Groundwater Protection Act. ACWD's management activities, under these statutory authorities, ensure a reliable and sustainable supply of high-quality water that satisfies present and future water needs for ACWD's distribution system customers and owners and operators of water wells.

ACWD's groundwater statutory service area includes the City of Fremont, City of Newark, City of Union City, and southern portion of the City of Hayward in the San Francisco Bay Area of California (Figure 1). ACWD also has groundwater protection authority throughout the entirety of the cities of Fremont, Newark, and Union City which extends west into the San Francisco Bay and east into the Diablo Range.

ACWD primarily provides retail water service to approximately 347,000 people in the cities of Fremont, Newark, and Union City. The portion of ACWD's water supply produced from wells in the Niles Cone Groundwater Basin has historically been between 30 and 62 percent annually, depending upon seasonal and annual demand requirements and availability of water from other sources. During fiscal year (FY) 2024/25, groundwater accounted for 32.8% of ACWD's distribution water supply. ACWD's municipal pumping accounted for approximately 90% of the

groundwater pumped from the Niles Cone. Pumping by the Aquifer Reclamation Program and by owners and operators of other water wells accounted for the remaining 10% (ACWD, 2026).

On September 16, 2014, Governor Jerry Brown signed a three-bill package known as the Sustainable Groundwater Management Act (SGMA) into law that establishes a new structure for groundwater management, recognizing that groundwater management in California is best accomplished locally. SGMA identifies ACWD as one of 18 agencies that were created by statute to manage groundwater and deemed the exclusive local agency to comply with SGMA. On November 10, 2016, ACWD's Board of Directors adopted Resolution No. 16-069 deciding to become the Groundwater Sustainability Agency (GSA) for the Niles Cone Subbasin 2-09.01, and on December 8, 2016, ACWD's Board of Directors adopted Resolution No. 16-075 authorizing the submittal of an Alternative to a Groundwater Sustainability Plan for the Niles Cone Subbasin 2-09.01 (Alternative).

The California Department of Water Resources (DWR) reviewed ACWD's Alternative, and in a letter dated July 17, 2019, concluded that the Alternative satisfies the objectives of SGMA and was approved. Per SGMA regulations, on December 29, 2021, ACWD submitted a five year update to the Alternative (Alternative Update) to DWR. The Alternative update is not a plan amendment but is a written assessment that describes and provides an update on ACWD's groundwater management efforts, an explanation of how the Alternative Update is functionally equivalent to elements of a Groundwater Sustainability Plan, incorporates DWR's recommended actions, and information on proposed projects and next steps. The Alternative Update was approved by DWR in a letter dated June 27, 2024, with additional recommended actions. ACWD's Alternative Update together with pre-existing authority by which the ACWD has carried out groundwater management efforts will allow ACWD to continue the successful management of the Niles Cone Groundwater Basin.

Annually, ACWD issues the *Groundwater Monitoring Report*, which provides information collected during the Spring and Fall Groundwater Monitoring Programs. The report contains water elevation data, selected groundwater quality data, and a description of the movement of groundwater and trends. In addition, ACWD prepares an annual *Survey Report on Groundwater Conditions*, which summarizes the total well production, estimated recharge, and changes in groundwater storage for the reporting period and includes forecasts for the various categories of groundwater pumping for the following year. The report also recommends the amount of supplemental water to be purchased in order to maintain basin water levels and is presented to the ACWD Board of Directors.

As part of Article 7, Annual Reports and Periodic Evaluations by the Agency, of the Groundwater Sustainability Plan Emergency Regulations (Emergency Regulations), DWR requires each agency to submit an annual report to DWR by April 1 of each year. In order to meet the functional equivalency and provide the components required by the Emergency Regulations, ACWD prepares and submits an annual SGMA report that includes the *Survey Report on Groundwater Conditions*, the *Groundwater Monitoring Report*, and other information as required.

A. Niles Cone Groundwater Basin Boundary

ACWD's groundwater statutory service area boundary approximately coincides with the Niles Cone Groundwater Basin as defined by DWR which shows the basin as being the southern

portion of the east bay area bounded on the south by the Alameda-Santa Clara County boundary and on the north by the boundary of ACWD and southern portions of the City of Hayward (DWR, 2016).

The Niles Cone consists of several regional aquifers of varying thicknesses and depths (Figure 3). The Newark and Centerville Aquifers extend beyond ACWD's boundaries to the San Francisco peninsula to the west (DWR, 1968), and the Deep Aquifers are hydraulically connected to the South East Bay Plain Basin, albeit with some impedance, to the north (Luhdorff and Scalmanini, 2003). Since 1914, ACWD has actively managed and protected the Niles Cone and conserved the water of the Alameda Creek Watershed.

B. Monitoring Programs

ACWD has been monitoring the Niles Cone since its formation in 1914, and as a result, a variety of monitoring programs were implemented and modified over time due to historical groundwater management needs, specific groundwater related studies, compliance with water rights reporting, and direction of the ACWD Board of Directors. Changes in the monitoring programs also reflect the destruction or loss of wells due to development, and the availability of newly constructed wells. In addition to the Spring and Fall Groundwater Monitoring Programs, currently, ACWD also monitors 7 wells on a weekly basis and 49 wells on a monthly basis.

Since 2010, ACWD has actively participated in the California Statewide Groundwater Elevation Monitoring (CASGEM) Program, which was authorized by SBX7-6 and enacted in November 2009. The CASGEM Program was created by DWR pursuant to Water Code Sections 10920-10936, which mandates a statewide groundwater elevation monitoring program to track seasonal and long-term groundwater elevation trends in California's groundwater basins. In 2021, DWR determined that CASGEM and SGMA required groundwater monitoring are equivalent and both meet Water Code Section 10920 et seq. To eliminate duplicative data submission requirements, DWR asked basins or sub-basins with an approved Alternative to upload the SGMA monitoring network and the fall 2021 groundwater elevation data to the SGMA Monitoring Network Module (MNM) in lieu of the CASGEM database by January 1, 2022. ACWD uploaded the monitoring network and associated water elevation data to the MNM on December 29, 2021. Since 2021, ACWD has uploaded groundwater elevation data collected during the spring and fall of each year to the MNM and will continue to submit groundwater elevation data from designated wells for compliance with SGMA and CASGEM.

The Spring and Fall Groundwater Monitoring Programs are semiannual field efforts to document the status of wells, obtain water level measurements, and collect groundwater samples. The Spring Program is normally conducted in March and April, and the Fall Program is conducted primarily in September. The Spring Program is conducted to provide insight into subsurface conditions throughout the service area when water levels tend to be at their seasonal high. The Fall Program's purpose is to update information on groundwater flow and quality and to provide insight into subsurface conditions when water levels tend to be at their seasonal low. To verify the consistency of data and to further define the isocontour lines based on water quality conditions, a larger set of wells is sampled during the Fall Program due to the susceptibility of the basin to saltwater intrusion via the Newark Aquifer. Monitoring wells are

selected based on overall coverage, accessibility, and available historic data and well construction information.

This report describes the Fall 2025 data acquisition effort, presents the water elevation and water quality data, and provides comparisons of current year results to historical data to document long-term trends and basin conditions. The Spring 2025 data are included in Appendix E and in Figures 4, 5, 6, and 7.

C. Other Niles Cone Groundwater Basin Studies

The U.S. Geological Survey (USGS) (Clark, 1915) conducted the first hydrogeologic study in this groundwater basin. Several hydrogeologic studies have been conducted by DWR: 1960, 1963, 1967, 1968, 1973, and 1975. The most comprehensive of these studies is *Evaluation of Groundwater Resources, South Bay* (1968) and *Appendix A: Geology* (1967). Christine Kolterman's 1993 dissertation (Stanford University) applied a process imitating approach to characterizing spatial variability in unconsolidated sediments for the Niles Cone Groundwater Basin. The USGS produced two companion reports providing a database of wells and a regional general hydrogeology for the South San Francisco Bay (Leighton, Fio, and Metzger, 1995 and Fio and Leighton, 1995). The California Regional Water Quality Control Board produced a report that documented hydrogeology, existing beneficial uses, ambient groundwater quality, and groundwater protection programs in the Niles Cone and two other South Bay groundwater basins (2003). In February 2019, USGS published a report titled *Hydrogeologic Controls and Geochemical Indicators of Groundwater Movement in the Niles Cone and Southern East Bay Plain Groundwater Subbasins, Alameda County, California*.

Other investigations that have further refined the characterization of the Niles Cone include four studies ACWD conducted with the support of the Local Groundwater Assistance Grant Program (ACWD 2006, 2007, 2010, and 2016) administered by DWR. In 2022, ACWD also completed the Niles Cone Groundwater Extraction Well Site Evaluation Project with the support of Prop 1 Groundwater Grant Program funding. The project entailed installing three test wells and eight monitoring wells to evaluate three locations in the Niles Cone for the potential removal of brackish water from the Centerville-Fremont Aquifer and preventing brackish water from migrating towards ACWD's Mowry Wellfield.

III. PURPOSE

The Spring and Fall Groundwater Monitoring Programs serve a number of purposes:

- To evaluate the status of wells in the program owned by ACWD, other public agencies (e.g., East Bay Regional Park District, Bay Area Rapid Transit, and Cities of Fremont, Hayward, Newark, and Union City), and private owners;
- To conduct water level measurements and collect water samples;
- To describe the movement of groundwater;

- To characterize effects of legacy saltwater intrusion on groundwater quality within the basin;
- To track water level and water quality trends in the groundwater basin;
- To collect and submit data to the MNM as part of ACWD's participation of the CASGEM Program; and
- To comply with components of SGMA.

IV. WATER RESOURCES AND HYDROGEOLOGY

A. Water Resources

ACWD obtains water from local and imported sources. The local sources of water are runoff from the Alameda Creek Watershed, deep percolation of precipitation, and applied water. Imported water is obtained from the State Water Project through the South Bay Aqueduct and from the San Francisco Public Utilities Commission through the Hetch Hetchy Aqueduct (Figure 2). Watershed runoff and a portion of the State Project water are diverted to Alameda Creek and Quarry Lakes Regional Recreation Area and adjacent areas (together referred to in this report as recharge ponds) for recharge of the groundwater basin. Many of the recharge ponds were former gravel quarry pits that were mined to depths ranging from 70 to 120 feet below the surrounding ground surface. The principal hydrogeologic structure beneath ACWD is the Niles Cone Groundwater Basin. The main point of surface water entry into the Niles Cone Groundwater Basin occurs through Alameda Creek and its tributaries, and the recharge ponds. Groundwater is extracted from the basin through pumping of ACWD's production wells, ACWD's Aquifer Reclamation Program (ARP) wells, wells owned by other public agencies, and privately owned wells.

B. Hydrogeology

1. Niles Cone Groundwater Basin

The Niles Cone Groundwater Basin is an alluvial aquifer system consisting of unconsolidated gravel, sand, silt, and clay. The gravel and sand deposits have the highest permeability and thus comprise the aquifers; conversely, silt and clay layers have low permeability and form the aquitards. An aquifer is a water-bearing geologic formation which will yield an appreciable or economically beneficial supply of water. In 1968, DWR used the term aquiclude, a saturated geologic unit that is incapable of transmitting significant quantities of water under ordinary hydraulic gradients (Freeze and Cherry, 1979), for the low permeability beds that confine the aquifers. In 1973, DWR reclassified these confining beds as aquitards, which are relatively low permeability geologic beds in a stratigraphic sequence that store water but will not transmit it rapidly enough to supply wells or springs. These beds may be permeable enough to transmit water in quantities that are significant for the study area, even though water movement per acre is insignificant (DWR, 1973).

The Niles Cone Groundwater Basin is divided by the Hayward Fault (Figure 2). The Hayward Fault is an active fault with low permeability that impedes the lateral flow of groundwater. Large differences in water levels on either side of the fault demonstrate the relatively impermeable nature of the fault. The AHF sub-basin on the east side of the Hayward Fault is composed of highly permeable sediments referred to as the AHF Aquifer. The BHF sub-basin is composed of a series of relatively flat lying aquifers separated by extensive clay aquitards. Figure 3 is a generalized illustration of the basin and the aquifers based on a DWR conceptual figure (DWR, 1968). Due to the different hydrogeological settings of the AHF and BHF sub-basins, ACWD operates the two sub-basins as separate management areas.

Over time, the alluvial/fluvial depositional environment produced thick coarse grain sediments along present-day Alameda Creek and also along historic stream channels (now buried). With distance westward, both the thickness and grain size of the aquifers decreases while the intervening clay aquitards become thicker (DWR, 1967). The aquitards appear to be absent just west of the Hayward Fault in the hydrogeologic region called the forebay area.

The shallowest regional aquifer in the BHF sub-basin, the Newark Aquifer, is an extensive permeable gravel and sand layer between 40 and 140 feet below ground surface (bgs), except in the forebay area where it begins at the surface. The thickness of the Newark Aquifer ranges from less than 20 feet at the western edge of the basin to more than 140 feet at the Hayward Fault (DWR, 1968). The Newark Aquifer is overlain in most of the sub-basin by a thick layer of silt and clay called the Newark Aquiclude (DWR, 1968). The Newark Aquiclude is absent in the forebay area, allowing direct recharge to the Newark Aquifer from Alameda Creek and the recharge ponds. Within the Newark Aquiclude, layers of sand and silt comprise a non-regional hydrogeologic unit known commonly as the shallow water-bearing zone.

An extensive thick clay aquitard separates the Newark Aquifer from the Centerville Aquifer. The Centerville Aquifer, the top of which lies at an average depth of 180 to 200 feet bgs, overlies a thick clay aquitard, which in turn overlies the Fremont Aquifer which exists in the interval of 300 to 390 feet bgs. The Centerville and Fremont Aquifers are considered as one combined aquifer (Centerville-Fremont Aquifer) in some parts of the basin, based on lithology and water level data that indicate that they are in good hydrogeologic connection. However, water level and water chemistry results indicate that in some areas of the basin, these two aquifers are more isolated from each other. Lithologic analysis also confirms their separation in portions of the basin. This isolation is best seen at some of the well clusters with wells screened in each aquifer. An example of this is seen in well cluster 4S/2W-36N011 (Centerville Aquifer) and 4S/2W-36N010 (Fremont Aquifer), with chloride concentrations of 248 and 1,111 parts per million (ppm), respectively, and an approximate 3.2 foot difference in water elevations.

The deepest water-bearing units, referred to collectively as the Deep Aquifers, are present at approximately 400 feet bgs and deeper. They are separated from the overlying Fremont Aquifer by a regional aquitard. Also, based on ACWD's lithologic data and DWR (1967), these deep aquifers are both hydraulically separated and connected by the presence or

absence of intervening clays dependent on the location in the basin, and extend beyond the limits of the Niles Cone Groundwater Basin to act as conductive layers for the migration of groundwater out of the basin. More recent area focused studies have also indicated that the Deep Aquifers are hydraulically connected, albeit with some impedance, to the South East Bay Plain Basin to the north (Luhdorff and Scalmanini, 2003).

The AHF Aquifer is both unconfined and confined due to the presence of local low permeability layers. The Newark Aquifer is confined in all areas except in the forebay area, where the overlying aquitard is absent. The Centerville-Fremont and Deep Aquifers are both confined.

In addition to the Niles Cone alluvium, there are four additional smaller physiographic alluvial deposits defined by DWR: Dry Creek Cone, Mission Alluvial Apron, Mission Upland, and Warm Springs Alluvial Apron (Figure 2) (DWR, 1967 and 1968). Each of these areas is described in the following sections.

2. Dry Creek Cone

A separate physiographic feature located in the northeast corner of ACWD is the Dry Creek Cone. The Dry Creek Cone is younger alluvium that overlies the Niles Cone Alluvium. The Dry Creek fan extends approximately three miles southwest from the hills and reaches a maximum thickness of 350 feet (DWR, 1967 and 1968). The sand and gravel aquifers in the Dry Creek Cone are thin and discontinuous and most of the cone consists of clay. The number and thickness of aquifers increase toward the point where Dry Creek emerges from the hills (DWR, 1967 and 1968).

3. Mission Alluvial Apron and Mission Upland

The Mission Alluvial Apron and the Mission Upland are located in the southeast corner of ACWD, east of the Hayward Fault. The Mission Alluvial Apron is comprised of shallow alluvium overlying the Santa Clara Formation. Well data, in the northern portion of the Mission Alluvial Apron, indicate that the upper 100 feet of material contain over 50 percent gravel with higher gravel percentages below 100 feet (DWR, 1967 and 1968). Recharge is primarily from infiltration of stream flow and precipitation with groundwater moving in a northwesterly direction into the alluvium of the Niles Cone east of the Hayward Fault.

The Mission Upland includes all exposed portions of the Santa Clara Formation. The Santa Clara Formation thicknesses may exceed 500 feet (DWR, 1986). Although highly permeable, movement of water westerly to the Warm Springs Alluvial Apron is limited because of the Hayward Fault and the easterly dip of the Santa Clara formation.

4. Warm Springs Alluvial Apron

The Warm Springs Alluvial Apron is located in the southeast corner of ACWD, just west of the Mission Upland. The aquifers in the Warm Springs Alluvial Apron are thin and fine-grained, with limited recharge. Well logs indicate that the upper 100 feet of the aquifer material contains less than 17 - 24 percent gravel (DWR, 1967 and 1968). Alluvium between 100 and 200 feet below ground surface is more permeable than either shallower

or deeper intervals, and up to 37% gravel has been noted from well logs. Groundwater in the alluvial apron flows to the west, but flow is limited due to low permeability deposits.

C. Groundwater Quality Summary

1. Saltwater Intrusion

Groundwater in the AHF Aquifer is generally of good quality and has not been impacted by saltwater intrusion, however, groundwater quality in certain areas of the BHF aquifers has been degraded by saltwater intrusion. The saltwater intrusion occurred due to persistent pumping from the basin and was first noticed in the 1920's. Many years of chronic overdraft caused the groundwater levels in the Newark Aquifer to drop below sea level. This relative elevation difference between the groundwater in the basin and the water from San Francisco Bay caused a landward direction of groundwater flow through the Newark Aquifer and intrusion of saltwater into the groundwater basin. Several decades of saltwater intrusion occurred and saline water migrated as far inland as the forebay area. The piezometric heads in the deeper aquifers are generally lower than that of the Newark Aquifer, and the aquitards separating the aquifers are thin to absent in the forebay area. As a result, saline water in the forebay area migrated downward from the Newark Aquifer into the lower aquifers. Also, saline water may have migrated downward from the Newark Aquifer to the deeper aquifers through abandoned and improperly sealed water wells. A DWR conceptual illustration of saline water movement into the basin during overdraft conditions is shown in Figure 3.

Since 1962, ACWD has purchased State Water Project water supplies to supplement local recharge and raise groundwater levels. This has resulted in bringing the water table above sea level as of 1972 (based on water levels at BHF historical indicator well 4S/1W-28D002) and returning the hydraulic gradient to its natural bayward direction in the Newark Aquifer. Although there has been substantial improvement in the basin, a considerable volume of saline water still remains in the aquifers.

In order to manage water supplies more effectively, ACWD has implemented the following to sustainably manage the basin and improve water quality:

- Artificial Recharge - Improve the recharge capability by constructing inflatable dams in Alameda Creek and increasing percolation capacity in the abandoned gravel quarries.
- Aquifer Reclamation Program (ARP) - Pump entrapped saltwater from the basin to either the Newark Desalination Facility or San Francisco Bay to produce greater usable storage and prevent movement of saltwater toward the forebay and the Mowry Wellfield.
- Newark Desalination Facility (dedicated on September 19, 2003) - Treat saline groundwater from selected ARP wells using reverse osmosis, blend the resulting water (permeate) with other supplies before delivery to ACWD's customers, and discharge concentrate to San Francisco Bay under a National Pollutant Discharge Elimination System general permit. The facility was expanded to increase permeate production

capability from 5 million gallons per day (MGD) to 10 MGD for a total blended production of up to 12.5 MGD. The expansion was completed on August 24, 2010.

2. Per- and Polyfluoroalkyl Substances (PFAS)

In 2020, ACWD elected to undertake a voluntary sampling program to monitor for the presence of PFAS in groundwater and surface water sources, as well as treated water being provided to our customers. PFAS are a category of synthetic compounds that have been used in industry and consumer products since the 1940s. PFAS are used in a variety of products including nonstick cookware, waterproof clothing, stain-resistant fabrics and carpets, and some firefighting foams. PFAS are very stable and are resistant to breaking down. They tend to remain in the environment for long periods of time. Low levels of PFAS were detected in ACWD's production wells during the sampling events in 2020, so in 2021 and 2022, ACWD expanded sampling to ACWD owned groundwater monitoring wells in an effort to characterize PFAS in the Niles Cone. With most of the extent of PFAS identified in each aquifer, selected ACWD owned groundwater monitoring wells are now sampled annually for continued PFAS monitoring in the basin.

Effective January 1, 2023, ACWD received monitoring orders from the California State Water Resources Control Board (State Board) to monitor for PFAS on a quarterly basis in all ACWD production wells. The most recent data are posted on ACWD's website (<https://www.acwd.org/734/Understanding-PFAS>). On April 10, 2024, the U.S. Environmental Protection Agency (EPA) established primary maximum contaminant levels (MCLs), which are legally enforceable human health based drinking water standards, for six PFAS: perfluorooctanoic acid (PFOA), perfluorooctane sulfonic acid (PFOS), perfluorohexane sulfonic acid (PFHxS), perfluorononanoic acid (PFNA), hexafluoropropylene oxide dimer acid (HFPO-DA), and mixtures containing two or more of PFHxS, PFNA, HFPO-DA, and perfluorobutane sulfonic acid (PFBS).

Groundwater pumped from ACWD production wells with PFAS levels above the MCLs are treated to meet drinking water standards. Groundwater from ACWD's ARP wells is treated through reverse osmosis at ACWD's Newark Desalination Facility (NDF). In 2023, ACWD began construction of an ion exchange system to treat PFAS impacted groundwater from ACWD's Mowry and Peralta-Tyson wells. The system was placed into operation in September 2024 and can treat up to 6 MGD of groundwater from the Mowry and Peralta-Tyson wells. Groundwater from Mowry and Peralta-Tyson wells is also blended with surface water (from the Hetch Hetchy system) to reduce hardness. Sampling results confirm that water entering ACWD's distribution system meets all state and federal drinking water quality standards.

3. Other Groundwater Quality Data

Water quality at ACWD's production wells and standby wells are monitored in accordance with ACWD's *Water Quality Monitoring Plan* (ACWD 2020), which was approved by State Water Resources Control Board Division of Drinking Water (DDW) in March 2020. The results are summarized in ACWD's *Annual Water Quality Report*, which is available on the ACWD website: <https://www.acwd.org>. Current and historical analytical data for individual ACWD production wells are available to the public at DDW's online water quality library at

https://www.waterboards.ca.gov/drinking_water/certlic/drinkingwater/EDTlibrary.html

Historically, manganese, chloride, and TDS and associated specific conductance were detected above their respective California secondary MCLs at certain ACWD production wells. Secondary MCLs are esthetic (e.g., taste and odor) based drinking water standards.

Elevated concentrations of chloride and TDS are detected, as expected, in source wells for the NDF. These wells were former ARP wells and were originally designed to remove brackish groundwater (see Section IV.C.1) from the basin. Manganese concentrations above the MCL of 50 micrograms per liter ($\mu\text{g/L}$) are also detected in the source wells for the NDF, specifically Cedar 1, Darvon 2, Bellflower, and Farwell, and standby well, Whipple. Manganese is a naturally occurring element in rocks in soil and are detected up to 2,900 $\mu\text{g/l}$ (99th percentile) in groundwater of the United States (Agency for Toxic Substances and Disease Registry, 2012). There are no known anthropogenic releases of manganese to the Niles Cone. All production wells with elevated chloride, TDS, and manganese concentrations are treated to meet all drinking water standards prior to distribution.

Impacts from nitrate in the Niles Cone are relatively modest, with occasional exceedances of state and federal MCLs of 10 milligrams per liter (mg/L) (nitrate as nitrogen) in a few monitoring wells. During the 2025 Spring and Fall Groundwater Monitoring Programs, ACWD collected groundwater samples from four wells where nitrate concentrations had historically been either above or just below the MCLs. Nitrate concentrations detected in 2025 were consistent with previous detections and were all slightly below the MCL. The highest concentration of nitrate detected in 2025 was 8.9 mg/L (in well 4S/2W-15L006), which was slightly lower than the highest concentration detected in 2024 (9.1 mg/L , also in well 4S/2W-15L06). In groundwater samples collected from ACWD's production wells during WY 2024/25, nitrate was all detected at concentrations well below the MCLs. ACWD will continue to monitor nitrate concentrations at these wells to evaluate any changes and determine next steps as needed.

Other known water quality issues are associated with unauthorized releases from hazardous storage facilities such as fueling stations, dry cleaners, and manufacturing plants. Monitoring and cleanup of impacted groundwater due to these releases are managed under other regulatory programs, such as the Underground Storage Tank Program, Site Cleanup Program, and Site Mitigation & Restoration Program. Groundwater data associated with these cleanup site could be found at the California State Water Resources Control Board's GeoTracker website (<https://geotracker.waterboards.ca.gov/>) or Department of Toxic Substances Control's EnviroStor website (<https://www.envirostor.dtsc.ca.gov/public/>).

V. FALL 2025 FIELD WORK

The field effort of the Fall 2025 Groundwater Monitoring Program was conducted between August 18 and September 25, 2025. Field personnel recorded the status of program wells and water levels in 245 wells. A total of 215 representative wells were selected for groundwater sampling and analyses. However, groundwater samples could only be collected from 204 of these wells due to access problems or wells not operating during the time of sampling. Four water samples were collected on August 4 and August 11, prior to the scheduled program time frame in order to accommodate ACWD well operating and sampling schedules. Water samples were collected from

32 monitoring wells and 3 surface water locations for PFAS analysis by Blaine Tech Services Inc., between August 25 and September 3.

To facilitate compliance with SGMA, wells in the Spring and Fall Groundwater Monitoring Programs were reorganized into two groups: SGMA Wells and Secondary Wells. In general, SGMA Wells are mostly ACWD owned wells with known well construction information and minimum access issues. Secondary Wells are mostly owned by private or other public entities with missing well construction information and or inconsistent access issues. Data from SGMA Wells are used to generate water level, chloride, and TDS contour maps. Data from the Secondary Wells are not used in the contouring process; however, the wells are monitored, and the data are shown on the corresponding maps (gray dots annotated with gray labels) as they provide valuable historical information and can be used for trend analysis. As new ACWD monitoring wells are constructed, they will be evaluated to potentially become SGMA Wells.

All water samples were transported under chain of custody protocol to a California Environmental Laboratory Accreditation Program (ELAP) accredited laboratory, for analyses. Current data are compared with historical results and data from neighboring wells. If needed, wells are resampled to verify consistency.

VI. WATER ELEVATION RESULTS

Appendix E and F summarize all well data collected for the Spring 2025 and Fall 2025 Groundwater Monitoring Programs, respectively. Fall 2025 water level measurements ranged from artesian conditions to approximately 73 feet bgs. All water levels were collected within the same week in September, except for two water levels which were measured the following week due to access issues. In the AHF sub-basin, water elevation decreases toward the center of the sub-basin and Peralta-Tyson Wellfield. In general, water elevation in the BHF sub-basin increases within each aquifer toward the recharge area and decreases with depth from the Newark Aquifer to the Centerville-Fremont Aquifer, and from the Centerville-Fremont Aquifer to the Deep Aquifers (for more explanation see Section VI.B, Vertical Gradients). Water elevations were calculated by subtracting the depth-to-water measurement from the well reference point elevation, which is referenced to the National Geodetic Vertical Datum of 1929 (NGVD 1929).

ACWD's indicator wells were used to quantify changes in water elevations between the Fall 2024 and Fall 2025 Programs. Water level in the primary AHF Aquifer indicator well, 4S/1W-27D008 (Figure 2), decreased by 6.64 feet, from 44.18 to 37.54 feet. The decrease in water level is also evident in varying degrees throughout the AHF sub-basin.

Water level in the primary BHF indicator well, 4S/1W-29A006, in the Newark Aquifer (Figure 2), decreased by 2.15 feet from 14.43 to 12.28 feet. Water level in the Newark Aquifer indicator well, 4S/2W-25M001, decreased by 1.15 feet from 10.24 feet to 9.09. The decrease in water levels is also evident in varying degrees throughout the Newark Aquifer. Water levels in the Centerville-Fremont Aquifer indicator well, 4S/1W-19L002, increased by 1.89 feet from -3.01 to -1.12 feet; and water levels in the Deep Aquifer indicator well, 4S/1W-31B003, increased by 3.51 feet from -6.27 to -2.76 feet. In general, increases in water levels observed in the Centerville-Fremont

Aquifer and Deep Aquifer indicator wells are also evident regionally, by varying degrees, in wells in each respective aquifer.

The long-term critical minimum operating levels, as measured in ACWD's two primary indicator wells, are +15 feet (NGVD 1929) for the AHF Sub-basin and 0 feet (NGVD 1929) for the BHF Sub-basin. A short-term level of -5 feet (NGVD 1929) at the BHF primary indicator well is the current expected worst case for a multi-year critical drought. Water levels at the two primary AHF and BHF indicator wells were both well above the SGMA minimum thresholds during WY 24/25.

For long-term water level trends, hydrographs for selected wells with historical data are in Appendix C. Water level data from historical AHF Aquifer well, 4S/1W-21R002, which was destroyed in 1990, were plotted together with water level data from nearby well, 4S/1W-27D008, in order to capture the general water level trend for the AHF Aquifer from the 1960's to the present. Similarly, historical Newark Aquifer well, 4S/1W-28D002, which has water level data dating back to the 1930's, became inaccessible in the 1990's; therefore, water levels from the well were plotted together with newer Newark Aquifer wells to document general aquifer water level trends. Locations of the wells in Appendix C are shown in Figure 2. Drastic increases in water levels were observed in all BHF aquifers between 1960 and mid-1970s. This is a result of effective management practices, legal authorities, and infrastructure acquired over the years to support the long-term beneficial uses of the Niles Cone.

A. Horizontal Gradients

Water elevations are higher for the AHF sub-basin compared to the BHF sub-basin; a difference as high as 30.74 feet during WY 24/25 between BHF primary indicator well, 4S/1W-29A006, and AHF primary indicator well, 4S/1W-27D008, and as high as 70 feet historically according to DWR (1967). This water level differential creates a strong gradient from the AHF toward the BHF sub-basins. However, the Hayward Fault is relatively impermeable and impedes the lateral flow of groundwater.

Water elevations are presented on contour maps for the AHF and BHF aquifers (Figures 4, 5, 6, and 7 for the Spring 2025 and Figures 8, 9, 10, and 11 for the Fall 2025). Water elevation contours were produced by computer software interpolation of the data and then modified manually based on contouring logic as needed. For contouring, an attempt was made to use only static water elevations and to not include water elevations from operating wells. The water elevations are piezometric heads, which are the levels to which water will rise in a well if it is not being pumped. The piezometric head is the level of the water surface in an unconfined aquifer and is the combination of elevation and pressure heads in a confined aquifer at atmospheric pressure. Artesian wells were noted as being artesian but are not measured, though during the contouring process, it is understood that the water level at artesian wells are above the ground surface elevation. Groundwater movement is driven by the groundwater gradient, from high to low values of piezometric head. The discussion below focuses mainly on the data collected during the Fall 2025 Groundwater Monitoring Program when groundwater tends to be at the seasonal low and most susceptible to saltwater intrusion.

Water elevations from wells screened in the AHF Aquifer, along with contours constructed from these elevations, are presented on Figure 8. The water elevations indicate that groundwater flows radially toward the middle of the sub-basin and Peralta-Tyson Wellfield.

This groundwater flow is probably due to recharge from the hills surrounding the basin, Alameda Creek, ACWD's recharge ponds; thinning of the alluvial aquifer along its borders; and pumping at the Peralta-Tyson Wellfield. The groundwater gradient generally varies with the regional topography, except in the vicinity of the recharge ponds and Peralta-Tyson Wellfield.

Water elevations from wells screened in the Newark Aquifer, along with contours constructed from these elevations, are presented on Figure 9. The water elevation contours indicate groundwater flows radially from the recharge ponds outward to the northwest, west, and southwest, and locally toward the Mowry Wellfield. The average basin wide horizontal groundwater gradient in the Newark Aquifer is approximately 0.0004 ft./ft.

Water elevations from wells screened in the Centerville-Fremont Aquifer, along with contours constructed from these elevations, are presented on Figure 10. The water elevation contours indicate that groundwater flows radially inward toward the vicinity of Cherry Street and Central Avenue. The groundwater depression near Cherry Street and Central Avenue is due mostly to the operation of Aquifer Reclamation Program wells (now Newark Desalination Facility supply wells) Cedar 1 (4S/1W-31N001), Darvon 2 (4S/2W-36A007), Bellflower (5S/1W-06H004), and Farwell (5S/1W-05C001). Groundwater flows from the recharge ponds toward the depression with an average gradient of approximately 0.0006 ft./ft. Pumping from the Centerville-Fremont Aquifer at the Mowry Wellfield has decreased since the increase in water production at the Newark Desalination Facility in 2010.

Between 2004 and 2014, 22 Centerville and Fremont Aquifer wells were installed as part of four DWR Local Groundwater Assistance Grants that were supplemented with cost share funding from ACWD. The wells were installed to investigate the movement of saltwater, characterize lithologic properties, and fill in monitoring gaps within the Centerville and Fremont Aquifers. The results of the four studies conducted are documented individually in the following reports: *Northwest Niles Cone Monitoring Wells Project* (ACWD, 2006), *Southwest Niles Cone Monitoring Wells Project* (ACWD, 2007), *Inland Saltwater Intrusion Monitoring Wells Project* (ACWD, 2010), and *The Niles Cone Saltwater Intrusion and Aquifer Characterization Project* (ACWD, 2016). Lithologic data collected during these studies allowed for improved characterization of the Centerville and Fremont Aquifers and the reclassification of older monitoring wells as being either screened in the Centerville Aquifer or Fremont Aquifer. The groundwater contours in Figures 6 and 10 are based on water levels measured from wells screened solely in the Centerville Aquifer. Fremont Aquifer water levels are also shown on the figures (annotated in red) but are not used in the contouring. A separate water elevation contour was not generated for the Fremont Aquifer because it is hydraulically connected to the Centerville Aquifer, and there are relatively fewer monitoring wells that are solely screened in the Fremont Aquifer.

Water elevations from wells screened in the Deep Aquifers, along with contours constructed from these elevations, are presented on Figure 11. Data from the Deep Aquifers are limited, but the water elevation contours indicate that groundwater gradient is relatively flat with groundwater flowing mainly from the recharge ponds toward local depressions due to pumping of agricultural and industrial wells from the Deep Aquifers. Historically, DWR interpreted a northerly direction of groundwater flow in the Deep Aquifers (DWR, 1967).

B. Vertical Gradients

Vertical gradients are important to determine the vertical direction of groundwater flow within and between aquifers and the magnitude of pressure driving the water. Vertical gradients can only be accurately determined if wells are either nested (multiple wells in the same borehole) or clustered (separate wells in close proximity) to eliminate the horizontal component of head.

ACWD acquired a well cluster (4S/1W-20R003, 4S/1W-20R004, and 4S/1W-20R005) from the Union Pacific Railroad that is solely screened within the Newark Aquifer (Table 2). This well cluster is located adjacent to Alameda Creek, and their water elevations indicate a downward gradient in this area of the basin within the Newark Aquifer.

Changes in head of water and water chemistry allow evaluation of the vertical direction of groundwater flow and the potential impact of one aquifer affecting water quality in shallower or deeper aquifers. Table 2 shows seven clusters selected in order to create a general understanding across the BHF sub-basin. All of the clustered wells in Table 2 indicate that the gradient from the Newark Aquifer is higher than other gradients between deeper aquifers. The high gradient between the Newark Aquifer and the deeper aquifers indicates that the Newark Aquifer is more hydraulically isolated at these cluster locations than the deeper aquifers due to the low permeability aquitard below the Newark Aquifer. Water levels in all of the clustered wells in Table 2 indicate a generally continuously downward gradient from the Newark Aquifer to the immediately underlying aquifer (Centerville Aquifer). The vertical gradient in the deeper aquifers is more variable. Both upward and downward gradients were observed between the Centerville Aquifer and the Fremont Aquifer and between the Fremont Aquifer and the Deep Aquifers.

The only exception to the general downward gradient from the Newark Aquifer to the underlying Centerville Aquifer is observed at a well cluster located at the southwest corner of the basin, near Plummer Creek. The wells were installed in late 2006 and early 2007, as part of the Southwest Niles Cone Monitoring Wells Project funded by the DWR Local Groundwater Assistance Grant Program. The water elevation for the Newark Aquifer well (5S/2W-14E008) during Fall 2025 was 3.66 feet while the Centerville, Fremont and Deep Aquifer wells in the cluster were all under artesian conditions.

The Newark Aquifer appears to be hydraulically connected to the surrounding salt ponds and salt marsh in the vicinity of well 5S/2W-14E008, located near the bay, as indicated by the high chloride concentration (46,481 ppm) detected. The deeper aquifers beneath the Newark Aquifer appear more confined. The well cluster is located south of Coyote Hills, near an area with relatively shallow bedrock. The Deep Aquifer wells in this cluster have water elevations that are significantly higher than water levels in the corresponding aquifer that are more inland. Due to the limited data available in the area, the relationships between the deeper water-bearing zones and the aquifers east of Coyote Hills are uncertain. As a result, additional studies are needed to provide further insight.

VII. WATER SAMPLE RESULTS

The chloride and TDS analytical results from Spring 2025 and Fall 2025 are in Appendix E and F, respectively. Historically, chloride concentrations have been highest in the Newark Aquifer close to the bay, decreasing with depth to the Centerville-Fremont Aquifer, and again decreasing with depth to the Deep Aquifers. During Fall 2025, the highest chloride concentration was again detected from a Newark Aquifer well. The wide range of concentrations observed in the Newark Aquifer reflects the influence of water from the recharge area in the east and the influence of higher salinity sources in the west. Also, the heterogeneous and anisotropic nature of the permeable sediments influences the complexity of the patterns seen on the contour maps.

ACWD has consistently analyzed water samples for chloride and occasionally analyzed them for additional inorganic and organic constituents. Chloride analysis is used to indicate saltwater intrusion since chloride makes up approximately 54% of total dissolved solids in sea water and it is conservative (non-reactive). The secondary MCL range for chloride is 250 ppm (recommended) to 500 ppm (upper).

“TDS or Total Dissolved Solids is defined as the total amount of solids remaining when a water sample is evaporated to dryness... [and]...salinity means essentially the same as TDS” (Drever, 1988). “In principle, it is the sum of all dissolved constituents, with bicarbonate converted to equivalent carbonate” (Drever, 1988). The secondary MCL range for TDS is 500 ppm (recommended) to 1,000 ppm (upper).

Water quality contours were produced by computer interpolation of the data and then manually modified based on contouring logic and on historical information. The chloride and TDS contours were prepared primarily for groundwater protection purposes. Therefore, if multiple water quality results within a water-bearing zone were available for a given location, then the higher concentration was used to derive the contour lines.

A. Chloride Results

Fall 2025 chloride results are presented on maps for the AHF Aquifer and each of the BHF aquifers on Figures 12, 13, 14, and 15.

1. Comparison Between Fall 2025 and Fall 2024

Differences between the Fall 2025 chloride figures and the Fall 2024 figures can be best explained by the availability and accessibility of certain wells for sampling, wells used for contouring, and slight variations in chloride concentrations from year to year.

a. Above Hayward Fault Aquifer

Chloride and TDS data for the AHF Aquifer are presented on Figure 12. The AHF Aquifer has never been affected by saltwater intrusion because the Hayward Fault acts as a low permeability barrier between BHF aquifers and the AHF Aquifer. The Fall 2025 chloride concentrations for the AHF Aquifer are similar compared to the Fall 2024 chloride concentrations. During Fall 2025, chloride concentrations at the Peralta-Tyson

Wellfield ranged between 68 ppm to 75 ppm, which is similar to the previous year's chloride concentrations which ranged between 68 ppm to 74 ppm. All chloride concentrations in the AHF Aquifer are well below the secondary MCL of 250 ppm.

b. Newark Aquifer

The Newark Aquifer chloride contours for Fall 2025 are similar to the Fall 2024 contours. Newark Aquifer wells 4S/1W-19E002, 4S/1W-30E004, and 5S/1W-05M001 located at various locations in the basin all have shown an overall improvement in water quality over at least the last thirty-six years (Figure 16). Chloride concentrations from well 4S/1W-19E002, located closest to the recharge ponds, decreased from a maximum of 1,030 ppm in 1985 to 68 ppm in 2025. Chloride concentrations for well 4S/1W-30E004 decreased from a maximum of 2,600 ppm in 1981 to 102 ppm in 2025. Chloride concentrations in Newark Aquifer well 5S/1W-05M001, located near Mowry Avenue west of I-880, decreased from a maximum of 11,500 ppm in 1989 to 1,322 ppm in 2025 (Figure 16).

Total production from the ARP wells in the Newark Aquifer increased this past year from a total of 2,794 acre-feet (AF) the previous year to 3,265 AF (Table 3 - beginning of October 2024 through September 2025). Lowry (4S/2W-14N001) was pumped and sampled during Fall 2025. In 2002, Cedar 2 (4S/1W-31N003) and Darvon 1 (4S/2W-36A006) were retrofitted in order to convert the wells into supply sources for the Newark Desalination Facility. Out of the 3,265 AF of water pumped from all Newark Aquifer ARP wells, 3,202 was used as a supply source for the Desalination Facility.

c. Centerville-Fremont, Centerville, and Fremont Aquifers

The Centerville-Fremont Aquifer chloride contours for Fall 2025 are similar to the Fall 2024 contours. Near the western end of Automall Parkway, the 250 ppm contour is plotted further southwest this year compared to the previous year because chloride concentration from a Fremont Aquifer well 5S/1W-16M006 in the area was incorrectly included in the generation of the Fall 2024 contours but was corrected this year. Overall, the chloride concentrations are similar between the two years. Improvements in water quality over at least the last forty-eight years in the Centerville-Fremont Aquifer were observed in wells 4S/1W-19L002, 4S/1W-19N003, and 4S/1W-29J003 located near the recharge ponds (Figure 17). Former irrigation well 4S/1W-19N003 was not sampled during Fall 2025 because the well requires repairs prior to sampling. Chloride concentrations at 4S/1W-19N003 had decreased from a maximum of 1,560 ppm in 1976 to 205 ppm in 2020. The well was constructed in 1950 and is screened in both the Centerville and Fremont Aquifers. Even though 4S/1W-19N003 was not sampled, two ACWD monitoring wells 4S/1W-19N005 (screened in the Centerville Aquifer) and 4S/1W-19N004 (screened in the Fremont Aquifer), located approximately 200 feet from 4S/1W-19N003, were sampled. Chloride concentrations detected at these two wells during Fall 2025 were 70 ppm and 211 ppm, respectively. The higher chloride concentrations from 4S/1W-19N004 are plotted in Figure 17 with historical chloride concentrations from 4S/1W-19N003 to help monitor the chloride concentration trend in the area.

The bulge of saline water inland of Fremont Boulevard near Mowry Avenue, as represented by wells 4S/1W-28P007 and 4S/1W-28F024 is of special significance due to the close proximity of the saline water to the Mowry Wellfield. Since 2011, chloride concentrations from 4S/1W-28P007 have decreased from 1,000 ppm to 459 ppm in 2025. Similarly, chloride concentrations at 4S/1W-28F024 have decreased from 290 ppm in 2010 to 99 ppm in 2025. Chloride concentrations at monitoring well 4S/1W-32K011, located approximately a mile southwest of 4S/1W-28P007, have increased from 788 ppm in 2007 to 1,007 ppm in 2025. 4S/1W-32K011 was installed in 2007 as part of the Inland Saltwater Intrusion Monitoring Wells Project funded by the DWR Local Groundwater Assistance Grant Program. Changes in chloride concentrations in this area may reflect the movement of saline water westward due to increase pumping of NDF source wells screened in the Centerville-Fremont Aquifer and the decrease pumping at the Mowry Wellfield. In general, chloride levels in the Centerville Aquifer are lower than chloride levels in the Fremont Aquifer, with the exception of an area extending from near Stevenson Boulevard and Blacow Road to Cherry Street and Boyce Road, and at the southern end of Coyote Hills.

The highest chloride concentration (45,499 ppm) was detected in Centerville Aquifer well 5S/2W-03H004, which was installed in the fall of 2014, as part of the Niles Cone Saltwater Intrusion and Aquifer Characterization Project funded by the DWR Local Groundwater Assistance Grant Program and is located at the southern end of Coyote Hills. The purpose of the project was to further define the extent of saline water in the Centerville and Fremont Aquifers near the southwestern portion of the basin. The elevated chloride concentration detected at 5S/2W-03H004 indicates a potential interconnection of the Centerville Aquifer to nearby salt ponds and or the well is screened through a lens of hypersaline groundwater in the area. ACWD has identified historical abandoned irrigation wells located near 5S/2W-03H004, which may be acting as conduits for the vertical migration of saline water. Two of the abandoned legacy wells were located and destroyed with local and Proposition 1 Groundwater Grant Program funding in March 2022. In general, well destruction in this area is especially challenging due to the surrounding salt marshes. Well 5S/2W-03H004 is part of a two well cluster. The other well 5S/2W-03H005 in the cluster is screened in the deeper Fremont Aquifer and has a chloride concentration of 23 ppm, which indicates the Centerville and Fremont Aquifers are hydraulically separated in this area.

Total production from the ARP wells in the Centerville-Fremont Aquifer increased from a total of 7,057 AF the previous year to 7,772 AF this year (Table 3). Cedar 1 (4S/1W-31N001) and Darvon 2 (4S/2W-36A007) were retrofitted in 2002 as supply sources for the Newark Desalination Facility. As part of the expansion of the Newark Desalination Facility, Bellflower (5S/1W-06H004) and Farwell (5S/1W-05C001) ARP wells were also retrofitted in 2009 to become supply sources to the facility. As permeate production capability increased from 5 MGD to 10 MGD, total blended production was increased up to 12.5 MGD. Out of the 7,772 AF of water produced from all Centerville-Fremont Aquifer ARP wells, 7,609 AF was used as a supply source for the Desalination Facility.

d. Deep Aquifers

During the Fall 2025, the highest chloride concentration in the Deep Aquifers was detected from well 4S/2W-09F014, located west of I-880 next to Old Alameda Creek. Since the well was installed in 2005, chloride concentrations have decreased from a maximum concentration of 730 ppm in 2006 to 634 ppm in 2025. The well is located near former salt ponds where a number of abandoned water wells have been identified. These abandoned wells could have allowed saline water from either the salt ponds or the Newark Aquifer to enter into the Deep Aquifers. The former salt ponds are currently being restored into tidal wetlands as part of the South Bay Salt Pond Restoration Project. Since 2002, ACWD has worked with project proponents to locate and destroy abandoned wells within the project area. As of May 2007, a total of 68 wells were identified in the area near well 4S/2W-09F014, and 43 of the 68 wells were located and destroyed. Attempts to locate the remaining 25 wells have been unsuccessful; most of these wells are believed to be located within Old Alameda Creek or beneath channel levees. ACWD will continue to oversee the proper destruction of any abandoned wells discovered in the area. Although chloride concentrations above 500 ppm were detected at 4S/2W-09F014 and 4S/2W-05G003 which is located approximately 12,000 feet to the northwest of 4S/2W-09F014, the chloride concentrations at both monitoring wells have been relatively stable since 2015, and do not indicate ongoing saltwater intrusion.

Field efforts were successfully coordinated with the City of Hayward to sample the City's Emergency Well C, where 157 ppm of chloride was detected. Well B was not sampled because it was not operational during the program. As the GSA for the portion of the East Bay Plain Subbasin (2-09.04) which underlies Hayward city limits, the City of Hayward will be reporting data associated with Well E.

Increases in chloride concentrations in the Deep Aquifers were observed after 2000 at one monitoring well (4S/2W-13P005) located west of Decoto Road. Chloride concentrations increased from 260 ppm in 2000 to 586 ppm in 2025. The elevated chloride concentration observed at 4S/2W-13P005 appears to be localized and does not appear to be new saltwater intrusion, since similar increases in chloride concentrations are not observed in surrounding Deep Aquifer wells nor other nearby wells. Chloride concentration has been relatively stable since 2020. The well will continue to be monitored for changes in chloride concentration trends.

The Fall 2025 chloride contours for the Deep Aquifers are similar to the Fall 2024 contours. Dashed contour lines were used to approximate chloride and TDS concentrations in the areas near water wells 4S/2W-36D003 (located near Brittany Avenue and Newark Boulevard) and 5S/2W-12B008 (located near Central Avenue and Cherry Street). Well 4S/2W-36D003 was last sampled in 2012 and 587 ppm of chloride and 1,400 ppm of TDS were detected. The well could not be sampled this year because the well was not operational during the program. Chloride and TDS concentrations of 494 ppm and 1,000 ppm, respectively, were detected at private well 5S/2W-12B008. Dashed contour lines were also used near the northwestern tip of the basin because the area immediately to the east is outside of ACWD groundwater statutory service area boundary and outside of ACWD's monitoring network.

Improvement in water quality over the last 40 to 50 years was observed in the Deep Aquifers just south and southwest of the recharge ponds as exhibited by the water quality history of wells 4S/1W-31B003, 4S/1W-30E003, and 4S/1W-31J001 (Figure 18). Maximum chloride concentrations were detected at these three wells in 1971, 1981, and 1979 at 1,520 ppm, 825 ppm, and 805 ppm, respectively. Since then, chloride concentrations have decreased at these three wells to 298 ppm, 134 ppm, and 217 ppm, respectively.

There was no ARP well production from the Deep Aquifers this past year. The only Deep Aquifer ARP well, Willowood 1 (4S/1W-31B003), has not been operated since August 2001.

2. Comparison Between Fall 2025 and Fall 1962

Since 1962, ACWD has recharged the Niles Cone through the recharge ponds with local runoff and purchased water from the State Water Project. During normal to wet years, groundwater recharge consists of mostly local runoff. As a result of the recharge activities, water levels in the Newark Aquifer have increased over time, restoring the bayward direction of groundwater flow by early to mid-1970s, thereby stopping additional saltwater intrusion into the basin. This recharge effort has also moved the 250 ppm contour line away from ACWD's Mowry Wellfield restoring an area of saline water to potable water.

Comparisons of the 250 ppm contour line for Fall 1962 and Fall 2025 aim to illustrate the difference in chloride distribution between these two time periods relative to the 250 ppm contour line. The figures do not provide information regarding concentration trends in recent years (see Section VII.A.1 for discussion of changes in recent years).

A comparison between Fall 1962 and Fall 2025 250 ppm contour lines in the Newark Aquifer (Figure 19) indicates a decrease in chloride concentrations from the Hayward Fault to approximately I-880.

A comparison between Fall 1962 and Fall 2025 250 ppm contour lines in the Centerville-Fremont Aquifer (Figure 20) indicates: a decrease in chloride levels in the recharge ponds area to beyond Fremont Boulevard, a decrease in chloride levels in a small southwest portion of the sub-basin near Cherry Street, and an increase in chloride levels in areas west and east of the Fall 1962 250 ppm contour line. An increase in area, as defined by the 250 ppm contour line near Mowry Avenue and Paseo Padre Parkway is of special significance due to its proximity to the Mowry Wellfield.

A comparison between Fall 1962 and Fall 2025 250 ppm contour lines in the Deep Aquifers (Figure 21) indicates: a decrease in chloride levels in the vicinity of the recharge ponds, a decrease in chloride levels just north of Darvon 1 & 2, and an increase in chloride levels around most of the Fall 1962 250 ppm contour line. The increase in chloride levels in the west and northwestern portion of the basin is interpreted as extending from Mowry Avenue to Highway 92. The northwestern portion of the increase is based on samples collected from monitoring wells installed in 2005 as part of the Northwest Niles Cone Monitoring Wells Project funded by the DWR Local Groundwater Assistance Grant Program.

However, it is unknown exactly when elevated chloride levels first appeared in this area of the basin.

In general, recharging the groundwater basin with watershed runoff and imported water since 1962 has decreased the chloride concentrations near the recharge ponds and some distance toward the bay in all three aquifers, but especially in the Newark Aquifer. The increase in chloride concentrations in both the Centerville-Fremont and the Deep Aquifers surrounding the Fall 1962 impacted areas may be due to changes in the monitoring network over time as historical wells are destroyed due to damage or development and new wells are installed, and mixing between highly saline water (>250 ppm) with less saline water (<250 ppm) as infiltration from the recharge area dilutes and disperses the saline water. It may also be due to vertical movement of saline water from other aquifers through poorly constructed wells or natural weaknesses in the aquitards or both.

B. Total Dissolved Solids Sample Results

The Fall 2025 TDS results are presented on maps for the AHF Aquifer and each of the BHF aquifers on Figures 12, 22, 23, and 24. TDS concentrations in the AHF Aquifer at the Peralta-Tyson Wellfield ranged between 430 ppm and 610 ppm, which is slightly higher than the previous year's range of 420 ppm and 550 ppm. TDS concentrations have historically been higher near Lake Elizabeth as indicated by well 4S/1W-34C001. Since 2000, the average TDS concentration detected at the well is approximately 1,013 ppm.

The 1,000 ppm contour line for TDS in the Newark Aquifer (Figure 22) appears to have the general shape of the 250 ppm chloride line (Figure 13). Two Newark Aquifer wells at the Mowry Wellfield were sampled and up to 470 ppm of TDS was detected during Fall 2025. Since 2000 (when ACWD first produced TDS contour figures), TDS concentrations have ranged from approximately 400 to 600 ppm.

In the Centerville-Fremont and Deep Aquifers, the 750 ppm contour lines for TDS (Figures 23 and 24) both appear to have roughly similar shapes as the 250 ppm chloride lines (Figures 14 and 15, respectively). Similar to the chloride results, elevated levels of TDS (exceeding 1,000 ppm) in the Centerville-Fremont Aquifer were detected inland of Fremont Boulevard near Mowry Avenue, south of the Mowry Wellfield. In general, since 2000, TDS concentrations for the Centerville-Fremont and Deep Aquifers have ranged between 400 ppm and 1,000 ppm in the Mowry Wellfield with an average of 521 ppm.

C. Per- and Polyfluoroalkyl Substances Sample Results

Based on available data, selected monitoring wells were sampled during Fall 2025 to help monitor basin wide distribution of PFAS in the Niles Cone. Water samples were collected from 32 monitoring wells and 3 surface water locations adjacent and upstream of ACWD recharge facilities. Monitoring wells were sampled using a low-flow purge method in general accordance with California State Water Quality Control Board's *Per- and Polyfluoroalkyl Substances (PFAS) sampling Guidelines for Non-Drinking Water* (September 2020). Samples were submitted to a State certified laboratory under chain of custody and analyzed using U.S. EPA Method 533. PFAS results collected during WY 2024/25 from monitoring wells and ACWD production wells are in Appendix D.

The majority of the PFAS exceedances above the MCL in groundwater are due to the presence of PFOS which has a MCL of 4 parts per trillion (ppt) and is present in both the AHF and BHF aquifers. Figures 25 through 28 provide information on PFAS in surface water, the AHF, and the BHF aquifers. Although the lateral and vertical extent of the PFAS in groundwater have been largely defined, ACWD continues to work on identifying data gaps and recommendations for more in-depth characterization of PFAS in the Niles Cone.

Surface water samples were collected on September 4, with the highest concentrations of PFOA (6.1 ppt), PFOS (14 ppt), and PFHxS (11 ppt), detected from a sample collected at Arroyo de la Laguna, a tributary to Alameda Creek. Groundwater samples collected during Fall 2025 documented PFOS concentrations ranging from <2.0 ppt to 13 ppt, PFOA concentrations ranging from <2.0 to 4.6 ppt, and PFHxS concentrations ranging from <2.0 to 13 ppt. PFNA was not detected in any of the samples collected (see Figures 25, 26, 27, and 28). Increasing PFHxS concentrations were observed in one Newark Aquifer monitoring well 5S/1W-06H006. However, since only four PFHxS results are available for this well, ACWD will continue to monitor this well to confirm possible trend.

PFOS concentrations exceeding the MCL were detected in all ACWD production wells with the exception of Mowry 2 and Farwell. PFOA concentrations exceeding the MCL of 4 ppt were observed at Peralta-Tyson wells, Darvon 1, and Nursery with concentrations ranging from 4.3 ppt to 5.1 ppt. PFHxS exceeding the MCL of 10 ppt was only detected in Cedar 2. ACWD continues to work with the Regional Water Quality Control Board (Regional Board) to determine potential source(s) that might be contributing to the higher levels of PFHxS in Cedar 2 compared to other wells in the Newark Aquifer. In general, PFAS concentrations in the basin are fairly consistent. Since PFAS exceeding the MCLs have been detected at ACWD production wells, ACWD will continue to coordinate with the Regional Board and the State Board's Division of Drinking Water in collecting PFAS data and developing strategies to better protect the Niles Cone. As previously mentioned, water entering ACWD's distribution system is treated and monitored for PFAS to ensure that ACWD's customers are receiving water that meets all state and federal drinking water quality standards.

VIII. CONCLUSIONS

In general, compared to levels observed during Fall 2024, groundwater levels observed during Fall 2025 are slightly lower in the AHF aquifer and Newark Aquifer. Water level at the primary BHF indicator well, 4S/1W-29A006, decreased by 2.15 feet from 14.43 to 12.28 feet. Water level at the AHF primary indicator well, 4S/1W-27D008, decreased by 6.64 feet, from 44.18 to 37.54 feet.

The long-term critical minimum operating levels, as measured in ACWD's two primary indicator monitoring wells, are +15 feet (NGVD 1929) for the AHF Sub-basin and 0 feet (NGVD 1929) for the BHF Sub-basin. A short-term level of -5 feet (NGVD 1929) at the BHF primary indicator well is the current expected worst case for a multi-year critical drought. Water levels at the two primary AHF and BHF indicator wells were well above the SGMA minimum thresholds during WY 24/25.

Groundwater in the AHF Aquifer flows toward the center of the sub-basin and Peralta-Tyson Wellfield. In general, groundwater gradient varies with the regional topography, except in the vicinity of the recharge ponds and the Peralta-Tyson Wellfield. Groundwater in the Newark Aquifer flows radially from the recharge area outward to the northwest, west, and southwest, and locally toward the Mowry Wellfield. The average basin wide horizontal groundwater gradient in the Newark Aquifer is approximately 0.0004 ft./ft. Groundwater in the Centerville-Fremont Aquifer flows inward toward the vicinity of Cherry Street and Central Avenue near the vicinity of Aquifer Reclamation Program wells Cedar 1, Darvon 2, Bellflower, and Farwell. Data from the Deep Aquifers are limited, but the water elevation contours indicate that groundwater gradient is relatively flat with groundwater flowing mainly from the recharge ponds toward local depressions.

Chloride concentrations at the AHF Aquifer are similar during Fall 2025 compared to Fall 2024; all chloride concentrations are below the secondary MCL. Chloride concentrations for the Newark, Centerville-Fremont, and Deep Aquifers are also similar between the two programs. The differences in the chloride contours between Fall 2025 and Fall 2024 in these aquifers are best explained by the availability and accessibility of certain wells for sampling, wells used for contouring, and variations in chloride concentrations from year to year. Chloride concentrations at Centerville-Fremont Aquifer well 4S/1W-28F024, located between the Mowry Wellfield and the bulge of saline water inland of Fremont Boulevard, decreased slightly from 103 ppm to 99 ppm. Changes in chloride concentration are of special significance in this area due to the close proximity of the Mowry Wellfield to the bulge of saline water.

In order to understand changes in water quality over several years, it is best to interpret water sample results from individual wells. In general, Figures 16, 17, and 18 indicate that recharging the groundwater basin with watershed runoff and imported water since 1962 has decreased the chloride levels in all three aquifers near the recharge ponds and some distance toward the bay in all three aquifers.

Comparisons of the 250 ppm contour line for Fall 1962 and Fall 2025 aim to illustrate the difference in chloride distribution between these two time periods relative to the 250 ppm contour line. A decrease in chloride content near the recharge ponds and some distance toward the bay is observed in the BHF aquifers, especially in the Newark Aquifer. However, an increase in chloride concentrations is also observed surrounding some historically impacted areas in the Centerville-Fremont and the Deep Aquifers (Figures 19, 20, and 21). This increase in area may be due to changes in the monitoring network over time as historical wells are destroyed due to damage or development and new wells are installed, and mixing between highly saline water (>250 ppm) with less saline water (<250 ppm) as infiltration from the recharge area dilutes and disperses the saline water. It may also be due to vertical movement of saline water from other aquifers through poorly constructed wells or natural weaknesses in the aquitards or both. ACWD will continue to monitor the residual impact of the historical saltwater intrusion and identify potential vertical conduits and mitigate them as appropriate.

PFAS were detected above MCLs in the AHF Aquifer, Newark Aquifer, and Centerville-Fremont Aquifer. All groundwater from ACWD production wells that exceed MCLs is treated to meet drinking water standards prior to distribution. Basin wide PFAS sampling will continue annually to establish long-term trends.

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APPENDIX A

TABLES

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TABLE 1

2025 GROUNDWATER MONITORING PROGRAM SUMMARY

GROUPING OF WELLS	NUMBER OF WELLS	NUMBER OF WELLS
	Spring	Fall
WELLS SAMPLED (METHOD OF SAMPLING)		
Owner's Pump	13	24
Wells With Air Compressor	73	159
ACWD's Dedicated Pump	12	21
TOTAL WELLS SAMPLED*	98	204
WELLS SAMPLED, BUT UNABLE TO MEASURE WATER LEVEL	18	32
WELLS THAT WERE MEASURED FOR WATER LEVELS	245	245
TOTAL WELLS SAMPLED OR MEASURED	263	277
TOTAL WELLS NOT SAMPLED AND NOT MEASURED	30	18
TOTAL NUMBER OF WELLS IN THE PROGRAM	293	295

*WELLS SAMPLED BY AQUIFER

Newark Aquifer	30	71
Centerville-Fremont Aquifer	44	83
Deep Aquifer	17	33
Above Hayward Fault Aquifer	7	17
TOTAL IN ALL AQUIFERS	98	204

TABLE 2
GROUNDWATER MONITORING PROGRAM FALL 2025
VERTICAL GRADIENTS AT
SELECTED CLUSTERED WELLS

Well Number	Aquifer	Water Depth (feet)	Ref Point Elevation* (feet)	Water Elevation* (feet)	Screen Pack (feet)	Center of Screen (feet)	Vertical Gradient	Direction	Chloride (ppm)	TDS (ppm)
4S/1W-20R003	N	42.19	59.11	16.92	38.0-58.0	48	-0.040	▼	---	---
4S/1W-20R004	N	43.53	59.2	15.67	74.5-84.5	79.5	-0.030	▼	---	---
4S/1W-20R005	N	44.32	59.06	14.74	105.0-115.0	110	---	---	67	400
5S/1W-05H006	N	21.78	34.29	12.51	50-80	65	-0.110	▼	161	1,100
5S/1W-05H005	C	41.55	34.31	-7.24	230-260	245	0.005	▲	305	1,000
5S/1W-05H004	F	41.01	34.25	-6.76	330-340	335	-0.005	▼	19	340
5S/1W-05H003	D	41.73	34.31	-7.42	450-480	465	---	---	26	330
4S/1W-28P008	N	42.13	53.53	11.40	60-100	80	-0.114	▼	86	670
4S/1W-28P004	C	55.82	53.56	-2.26	190-210	200	-0.005	▼	79	520
4S/1W-28P007	F	56.58	53.50	-3.08	330-340, 350-380	355	0.0016	▲	459	1,300
4S/1W-28P006	D	56.6	53.66	-2.94	430-460	445	---	---	188	640
4S/2W-13P004	N	14.25	25.90	11.65	48-58, 68-78	63	-0.078	▼	97	680
4S/2W-13P007	C	27.74	26.00	-1.74	180-290	235	-0.002	▼	113	710
4S/2W-13P006	F	28.15	26.15	-2.00	340-360	350	-0.009	▼	168	690
4S/2W-13P005	D	28.51	25.98	-2.53	400-420	410	---	---	586	1,300
4S/2W-36N012	N	7.14	15.86	8.72	50-70, 90-110	80	-0.130	▼	4,549	8,400
4S/2W-36N011	C	25.06	17.50	-7.56	190-220	205	0.035	▲	248	660
4S/2W-36N010	F	21.14	16.77	-4.37	280-310	295	---	---	1,111	2,000
4S/2W-12K011	N	40.93	53.67	12.74	110-150	130	-0.140	▼	36	410
4S/2W-12K010	C	53.99	53.39	-0.60	210-240	225	-0.011	▼	63	560
4S/2W-12K009	F	54.91	53.41	-1.50	300-310	305	0.002	▲	140	620
4S/2W-12K008	D	54.16	53.11	-1.05	470-510	490	---	---	43	380
4S/1W-19N014	N	28.6	40.5	11.90	60-100	80	-0.102	▼	66	400
4S/1W-19N005	C	42.44	40.55	-1.89	200-230	215	-0.006	▼	70	410
4S/1W-19N004	F	42.99	40.68	-2.31	270-310	290	0.002	▲	211	720
4S/1W-19N002	D	42.58	40.45	-2.13	370-410	390	---	---	296	860

N = Newark, C = Centerville, F = Fremont, D = Deep

*NGVD 1929

TABLE 3

AQUIFER RECLAMATION PROGRAM WELL PRODUCTION

WELL NAME	OCTOBER 2022 THROUGH SEPTEMBER 2023 (ACRE-FEET)	OCTOBER 2023 THROUGH SEPTEMBER 2024 (ACRE-FEET)	OCTOBER 2024 THROUGH SEPTEMBER 2025 (ACRE-FEET)
NEWARK AQUIFER			
CEDAR 2 (ARP)	16	5	40
CEDAR 2 (Desal)	807	937	1150
DARVON 1 (ARP)	34	5	22
DARVON 1 (Desal)	628	1,846	2052
LOWRY	1	1	1
SITE A	0	0	0
SITE B	0	0	0
SITE C	0	0	0
SITE D	0	0	0
SITE E	0	0	0
Supply for Desalination Facility Subtotal	1,435	2,783	3,202
ARP Pumping Subtotal	51	11	63
Aquifer Total	1,486	2,794	3,266
CENTERVILLE FREMONT AQUIFER			
BELLFLOWER (ARP)	13	43	49
BELLFLOWER (Desal)	2,121	1,017	1,611
CEDAR 1 (ARP)	70	39	65
CEDAR 1 (Desal)	998	1,570	1,593
DARVON 2 (ARP)	0	5	14
DARVON 2 (Desal)	2,644	2,498	2,427
FARWELL (ARP)	14	15	35
FARWELL (Desal)	2,133	1,870	1,978
Supply for Desalination Facility Subtotal	7,896	6,955	7,609
ARP Pumping Subtotal	97	102	164
Aquifer Total	7,993	7,057	7,772
DEEP AQUIFER			
WILLOWOOD 1	0	0	0
Aquifer Total	0	0	0
TOTAL FROM ALL AQUIFERS			
Supply for Desalination Facility	9,331	9,738	10,811
ARP Pumping	148	113	227
Total Pumping	9,479	9,851	11,038

ARP = Aquifer Reclamation Program pumping or pump-to-waste due to sampling or well maintenance needs

Desal = Source supply for Newark Desalination Facility

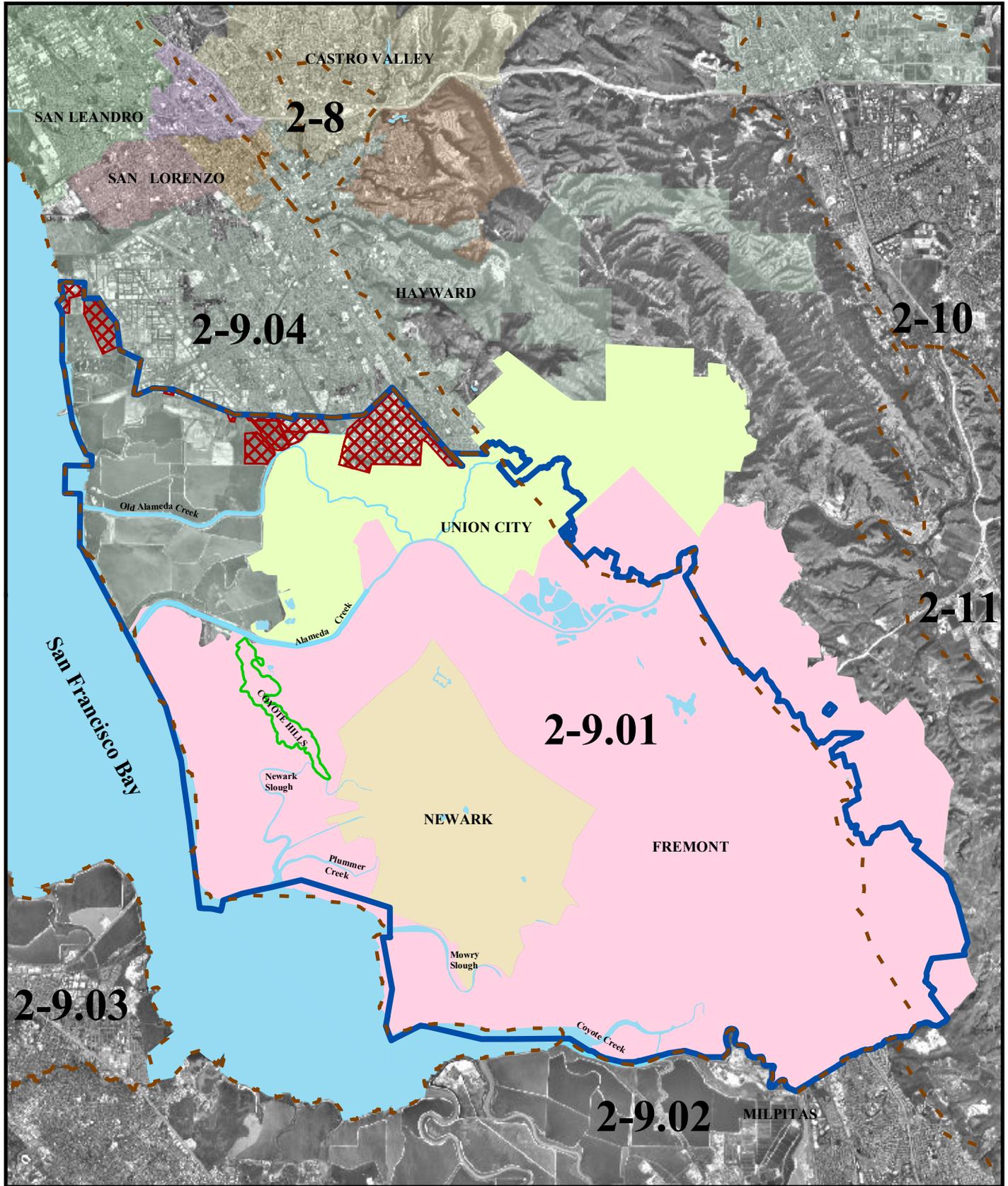
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APPENDIX B

FIGURES

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FIGURE 1: LOCAL AGENCY BOUNDARIES



 **ACWD GROUNDWATER STATUTORY SERVICE AREA BOUNDARY**

 **Hayward Detachment**

 **2016 APPROVED DWR BULLETIN-118 GROUNDWATER BASIN BOUNDARY**



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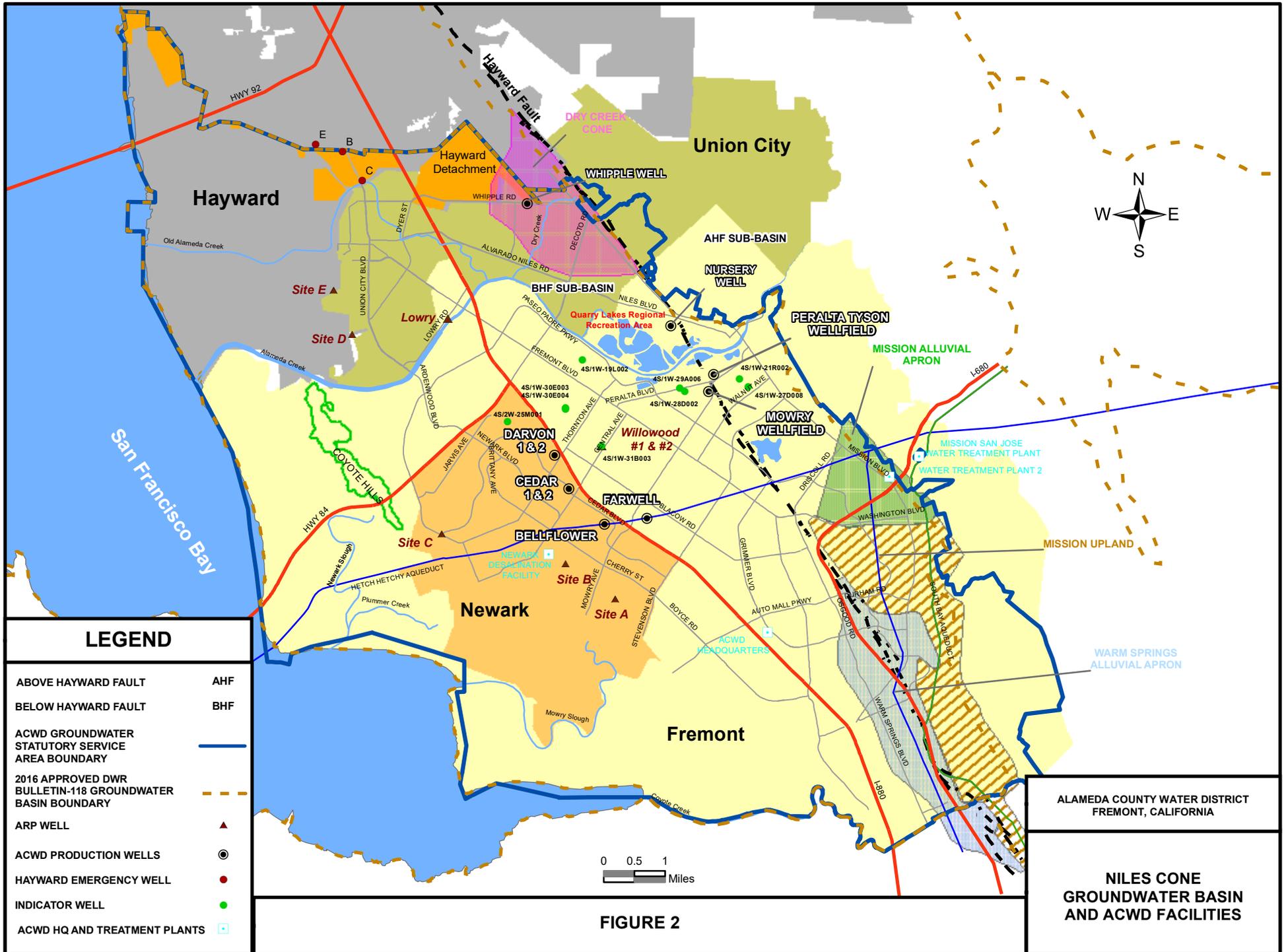
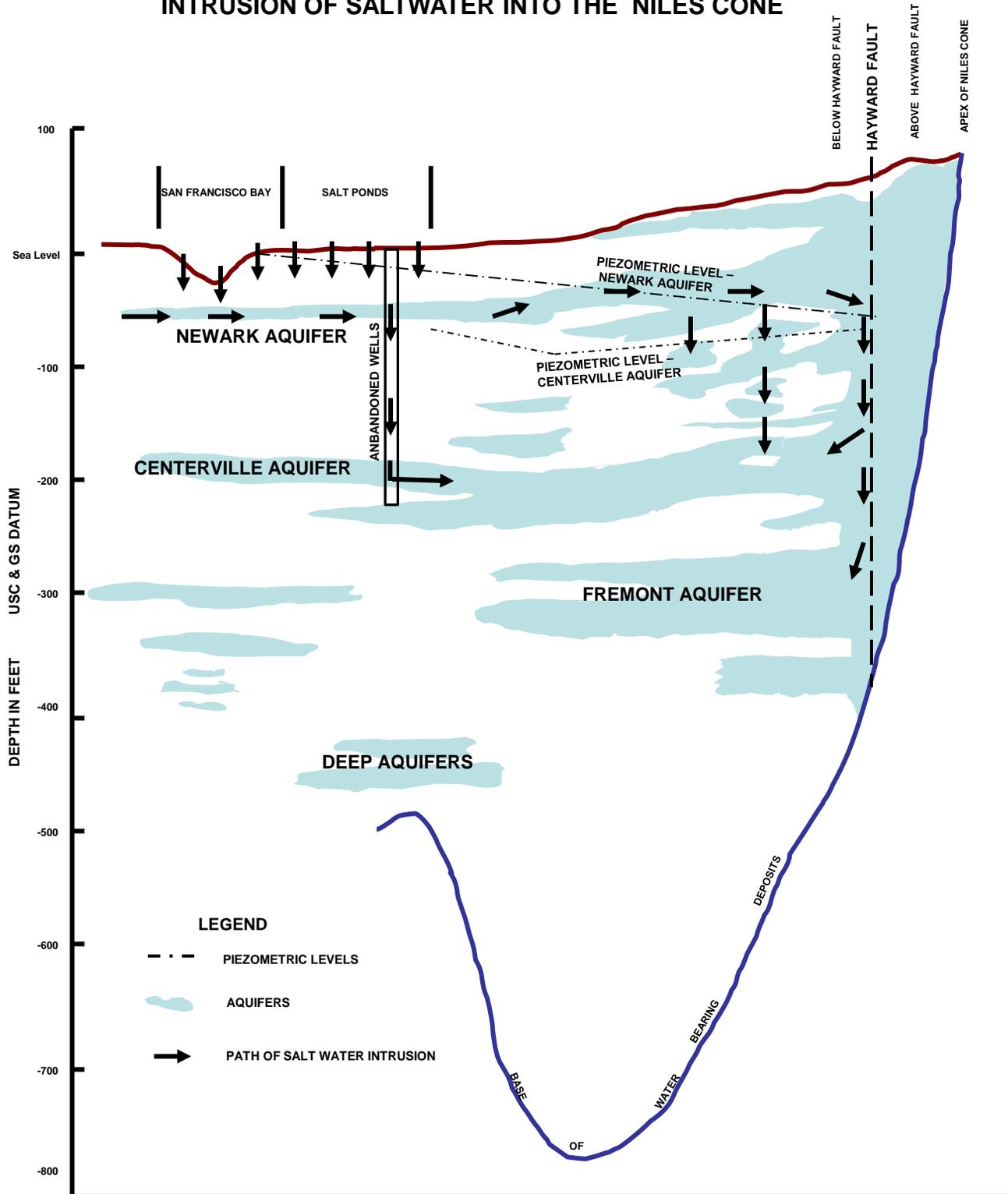
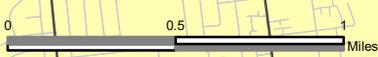
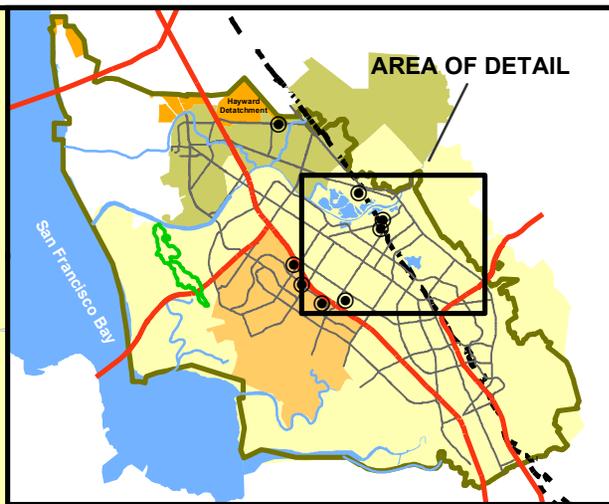
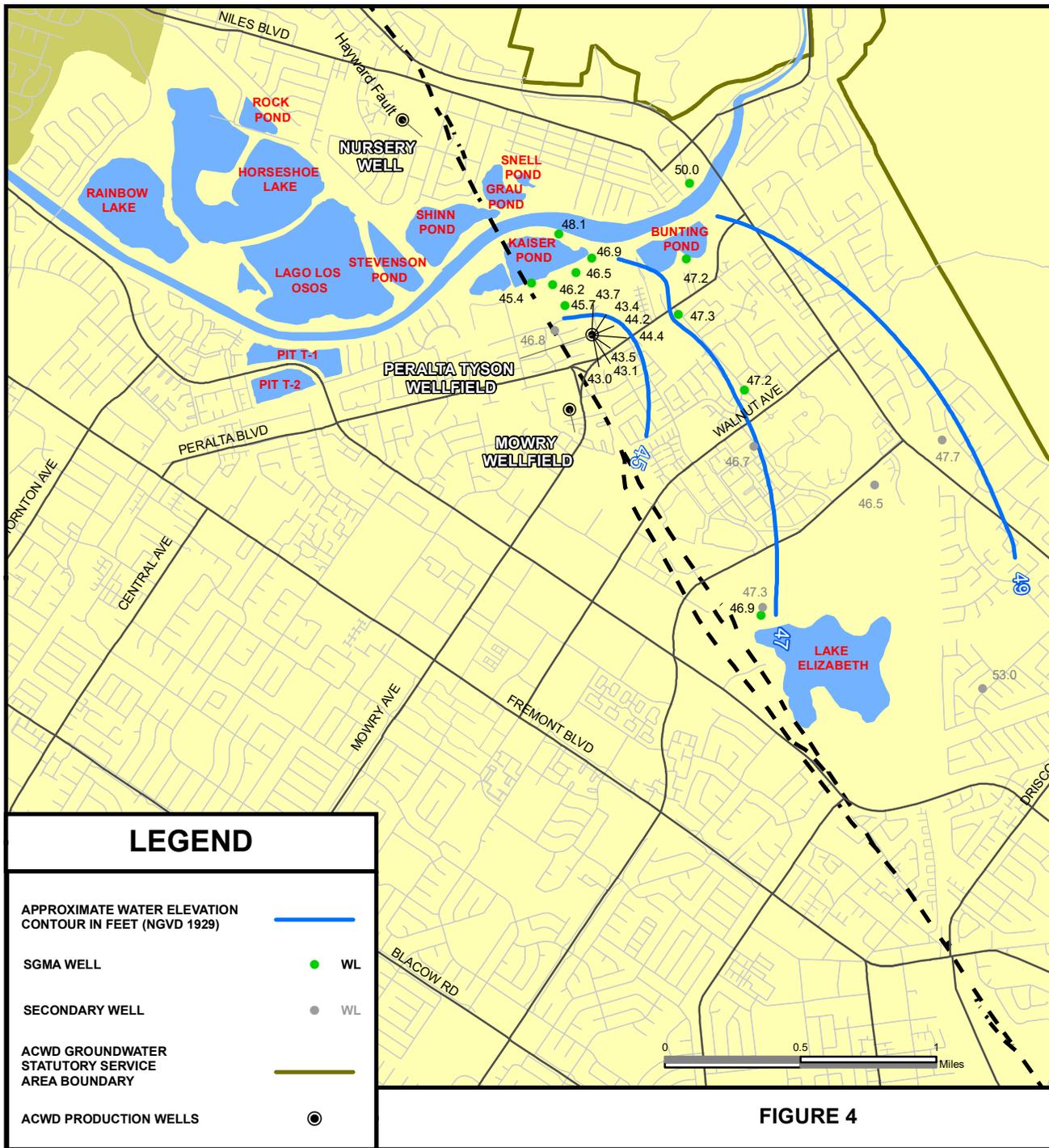
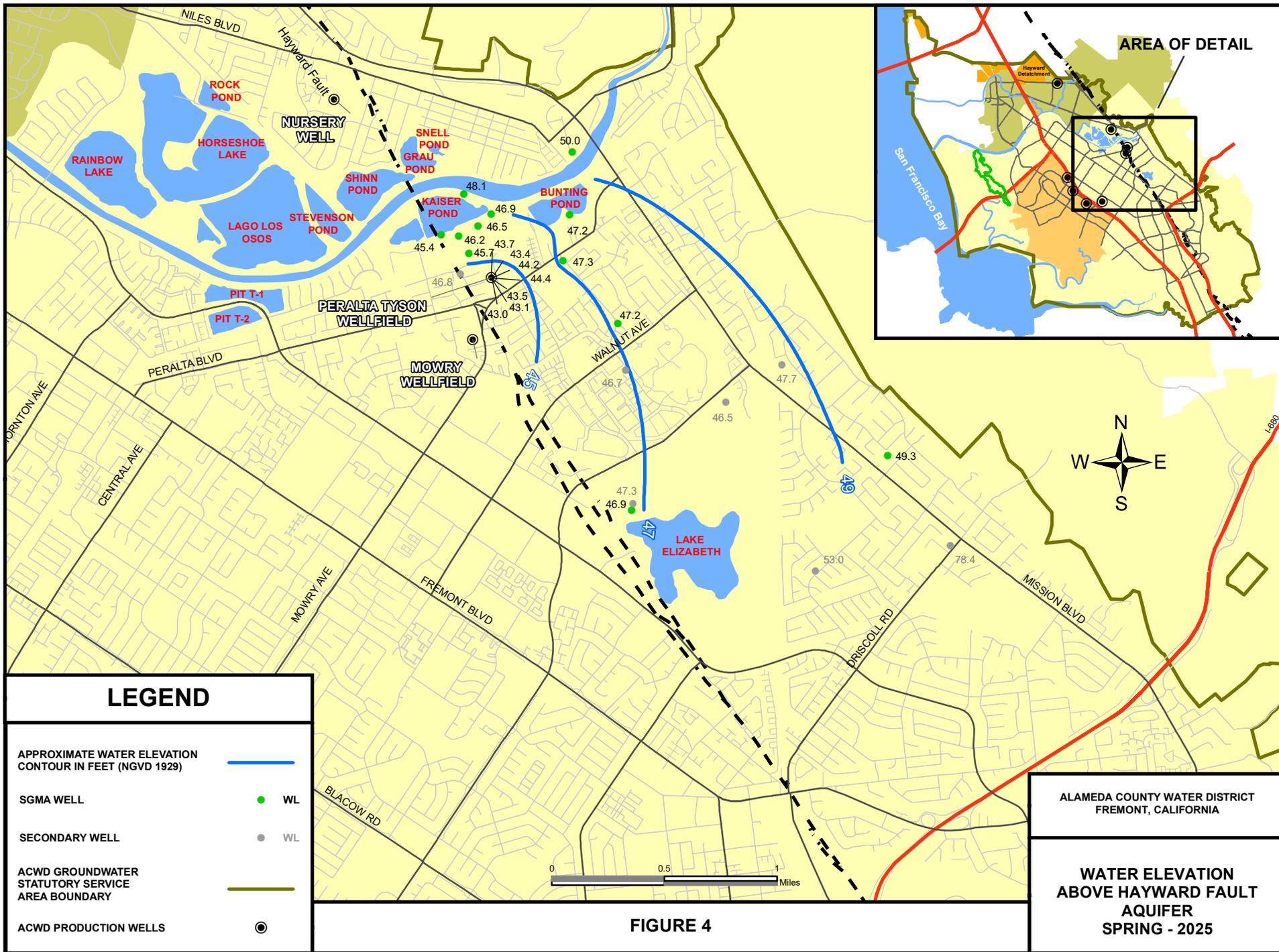
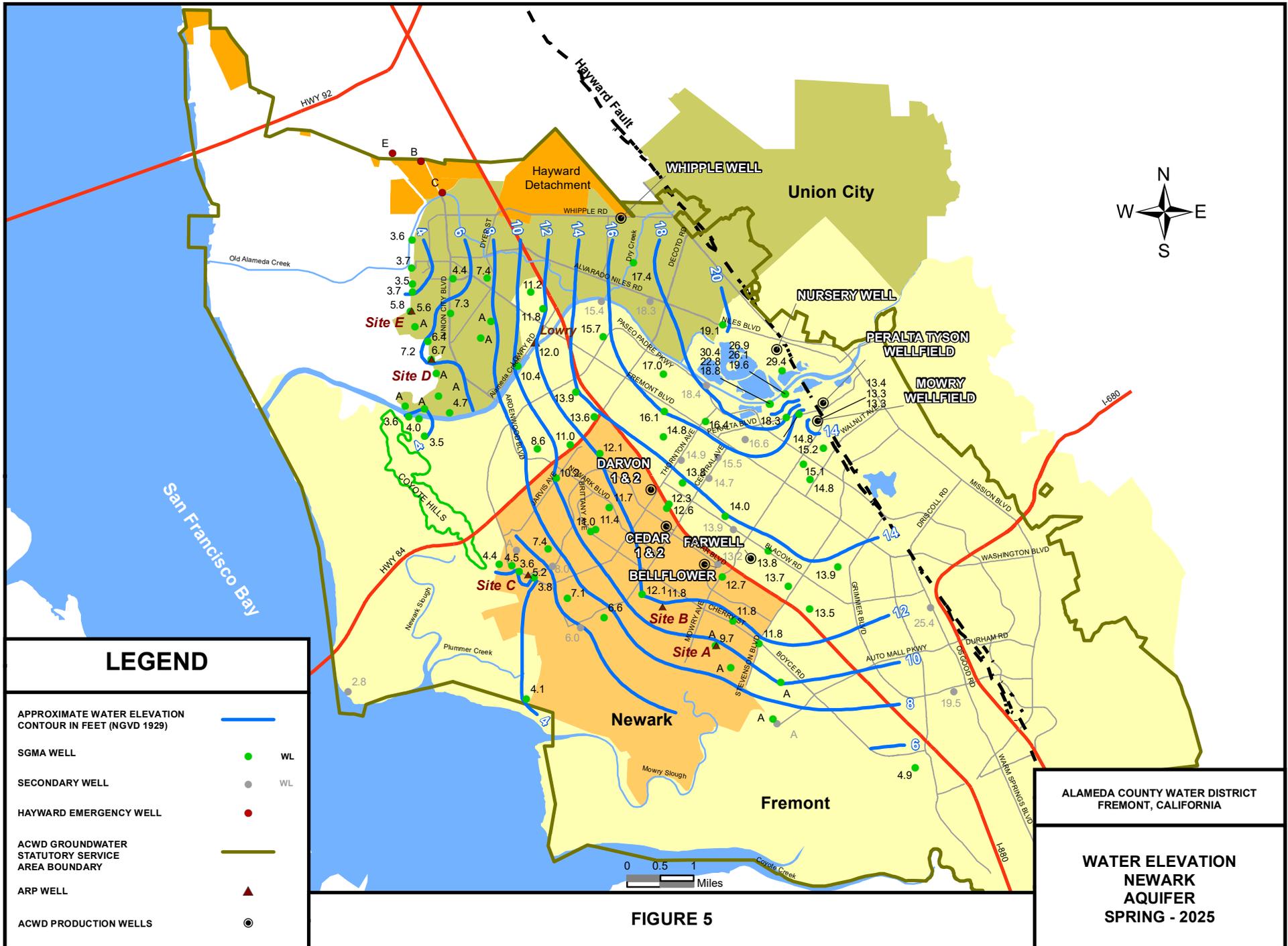


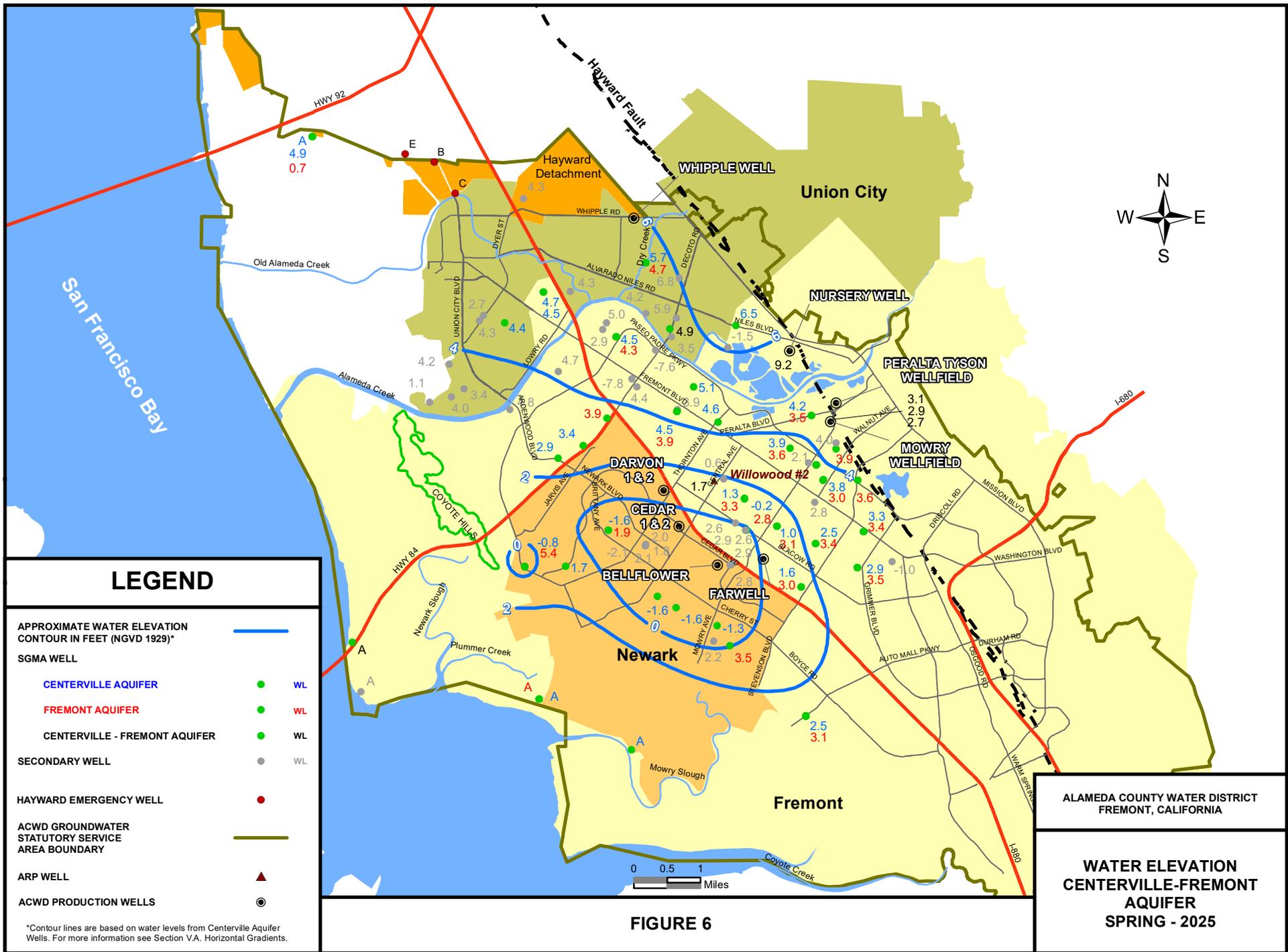
FIGURE 3: CONCEPTUAL DIAGRAM OF HISTORICAL INTRUSION OF SALTWATER INTO THE NILES CONE

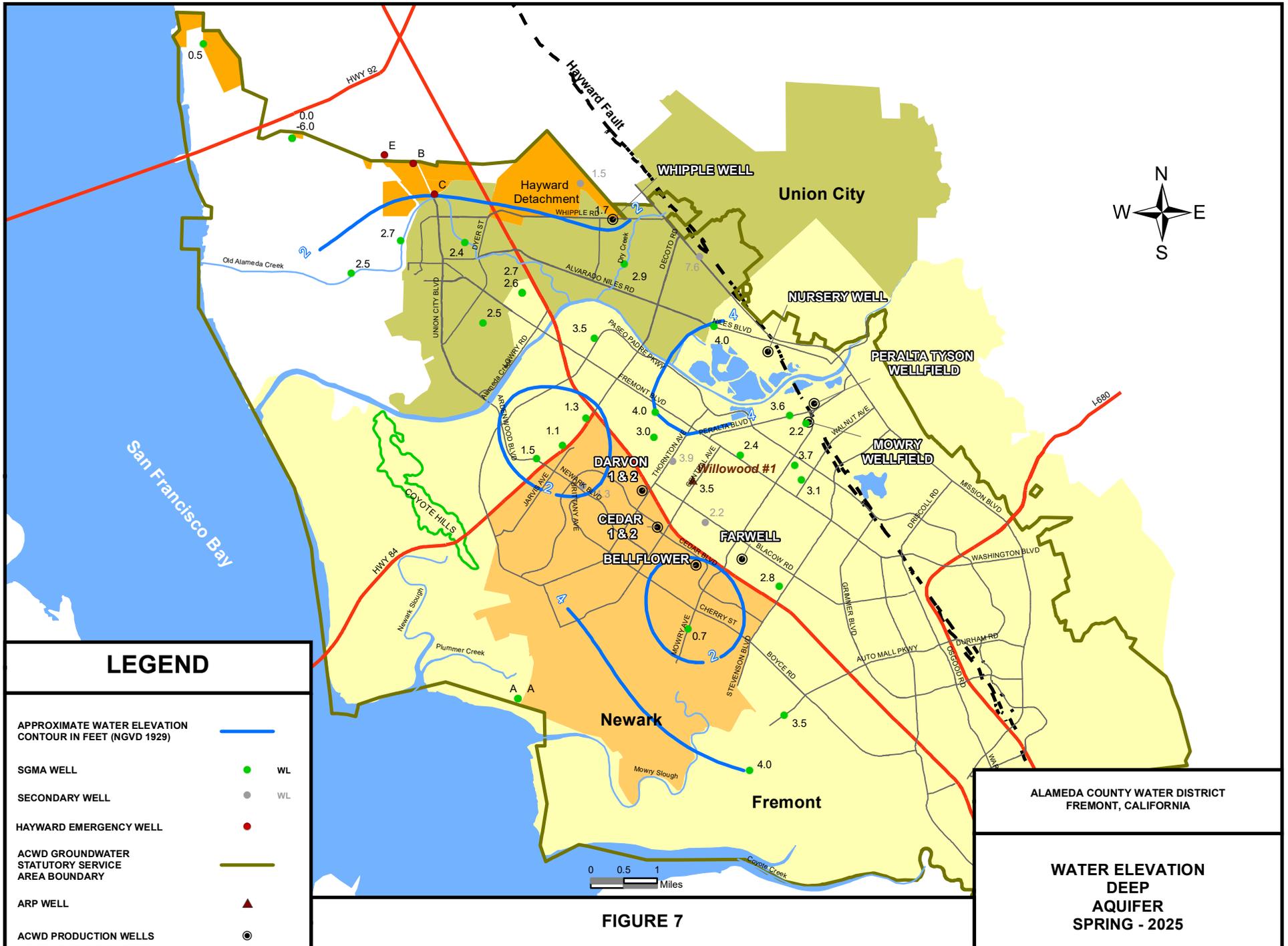


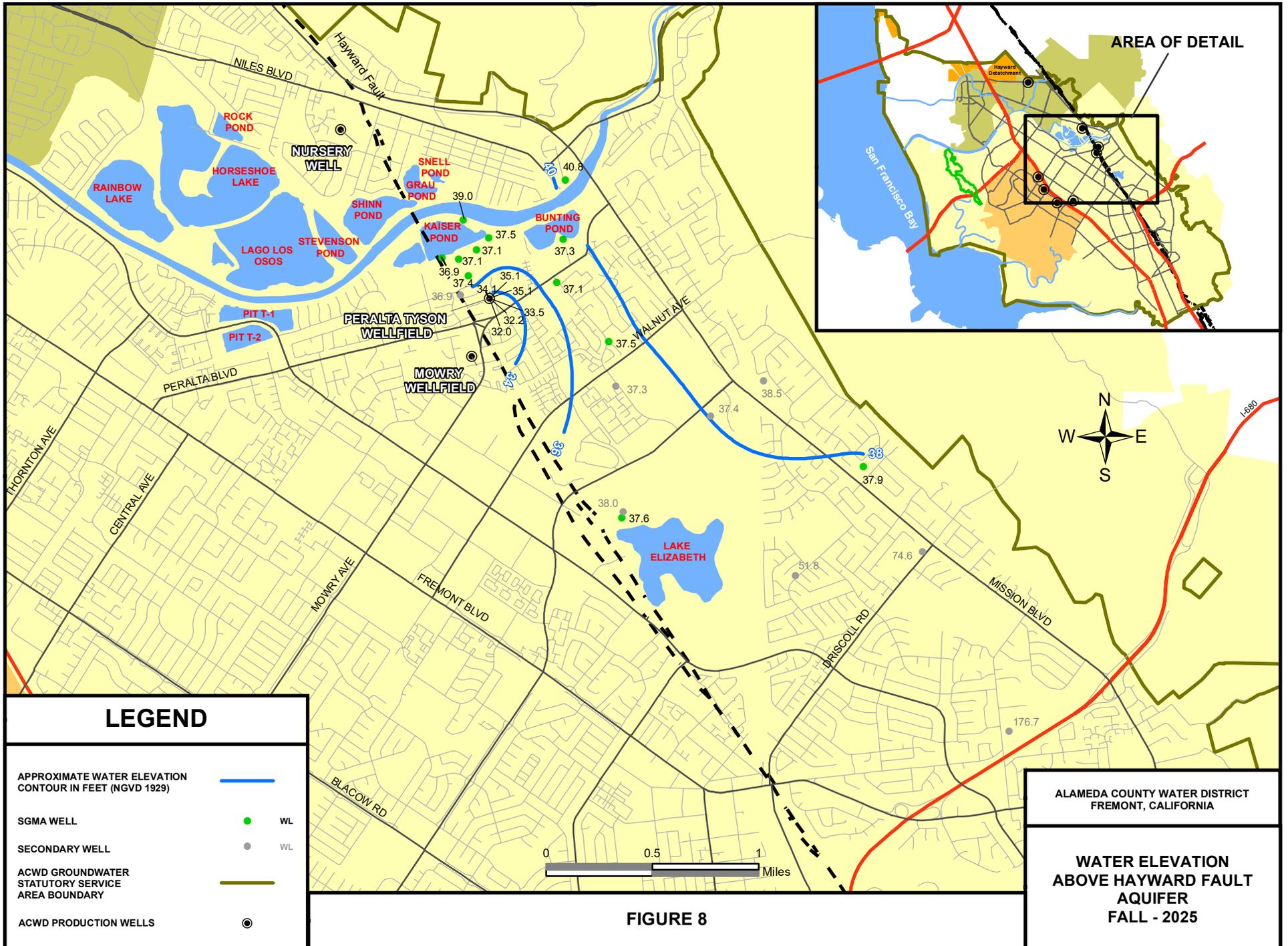
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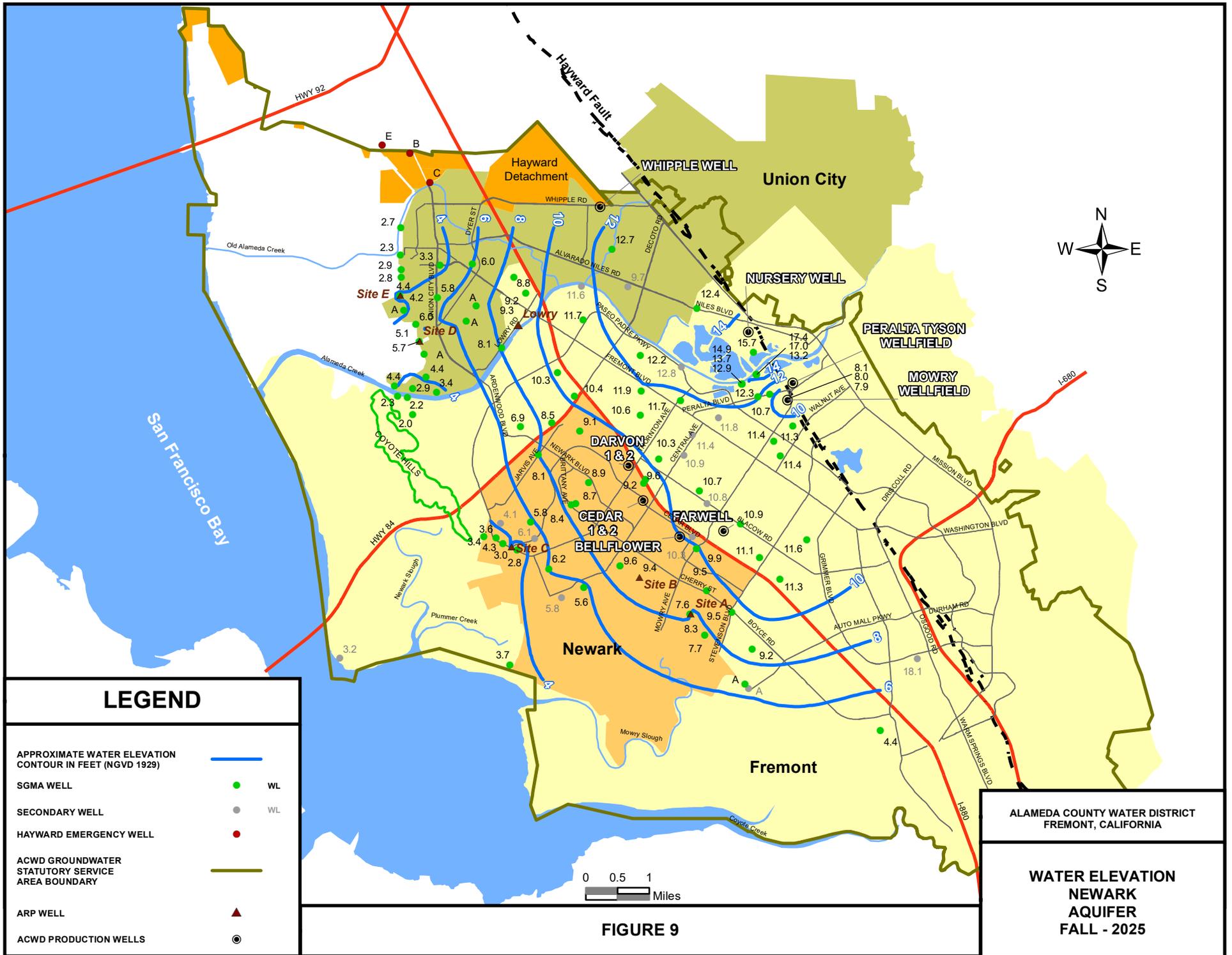


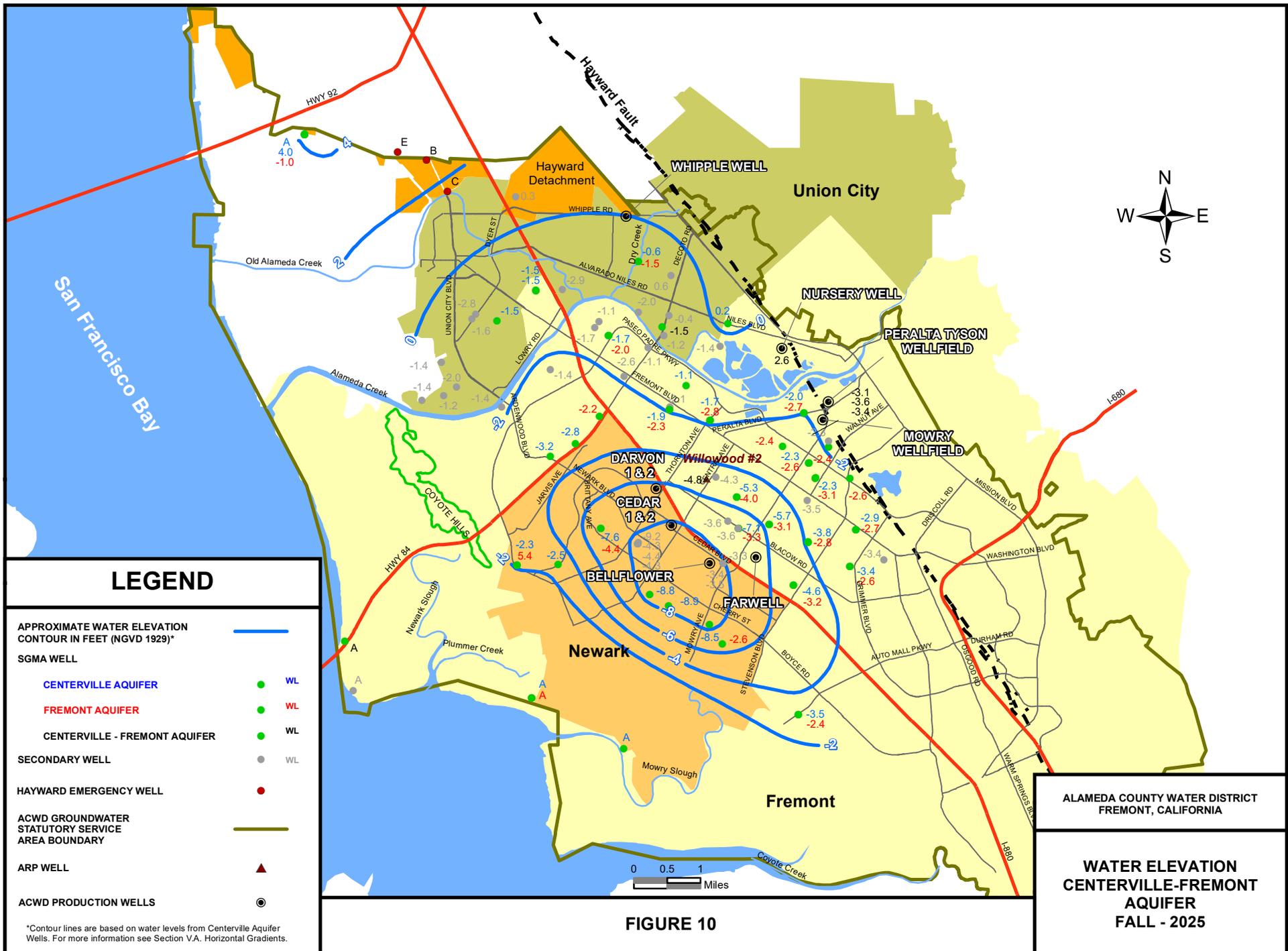












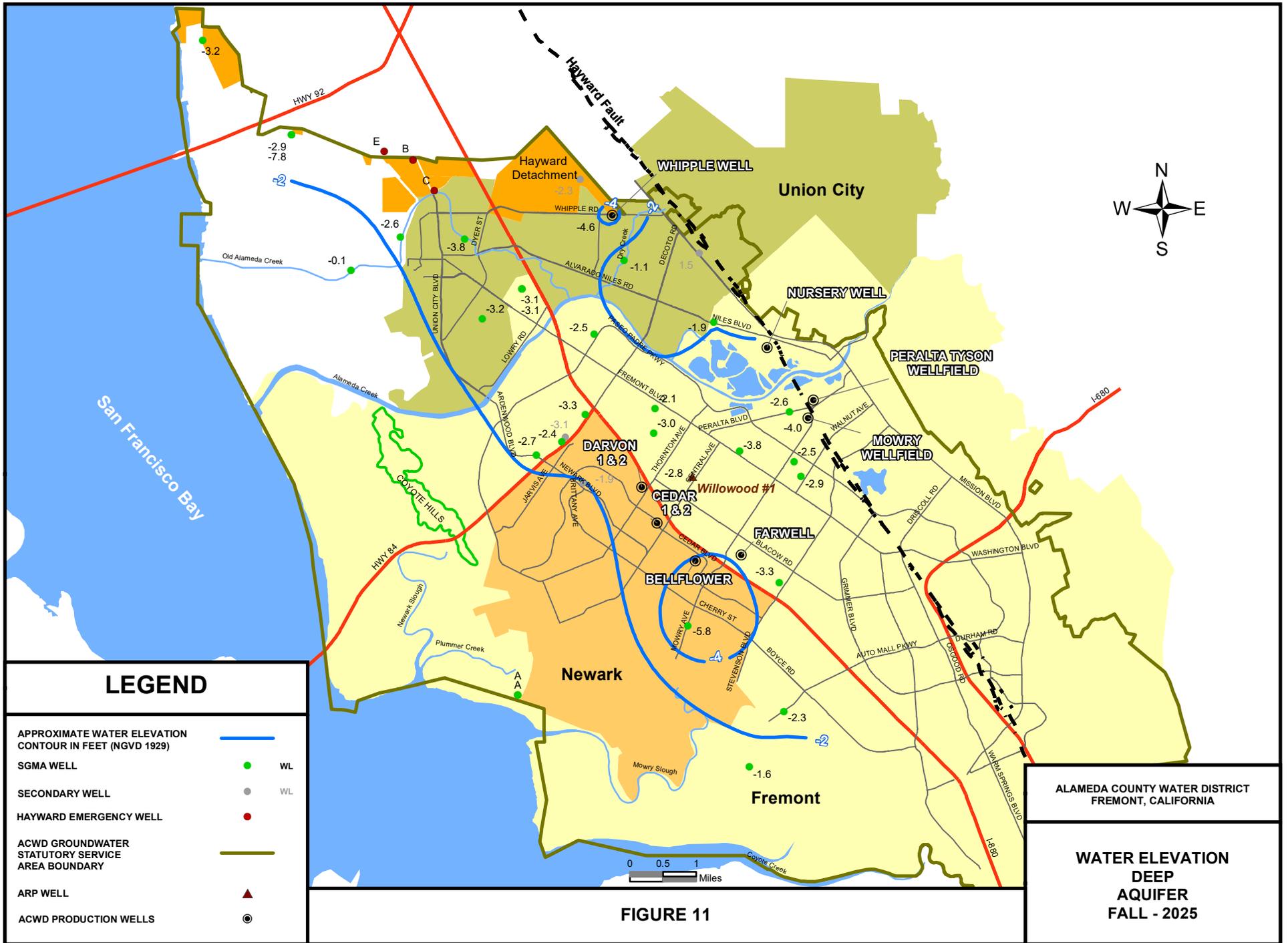


FIGURE 11



0 0.5 1 Miles

San Francisco Bay

Union City

Hayward Detachment

Newark

Fremont

WHIPPLE WELL

NURSERY WELL

PERALTA TYSON WELLFIELD

MOWRY WELLFIELD

DARVON 1&2

CEDAR 1&2

BELLFLOWER

FARWELL

Willowood #1

HWY 92

HWY 84

I-680

I-680

Hayward Fault

Old Alameda Creek

Alameda Creek

Plummer Creek

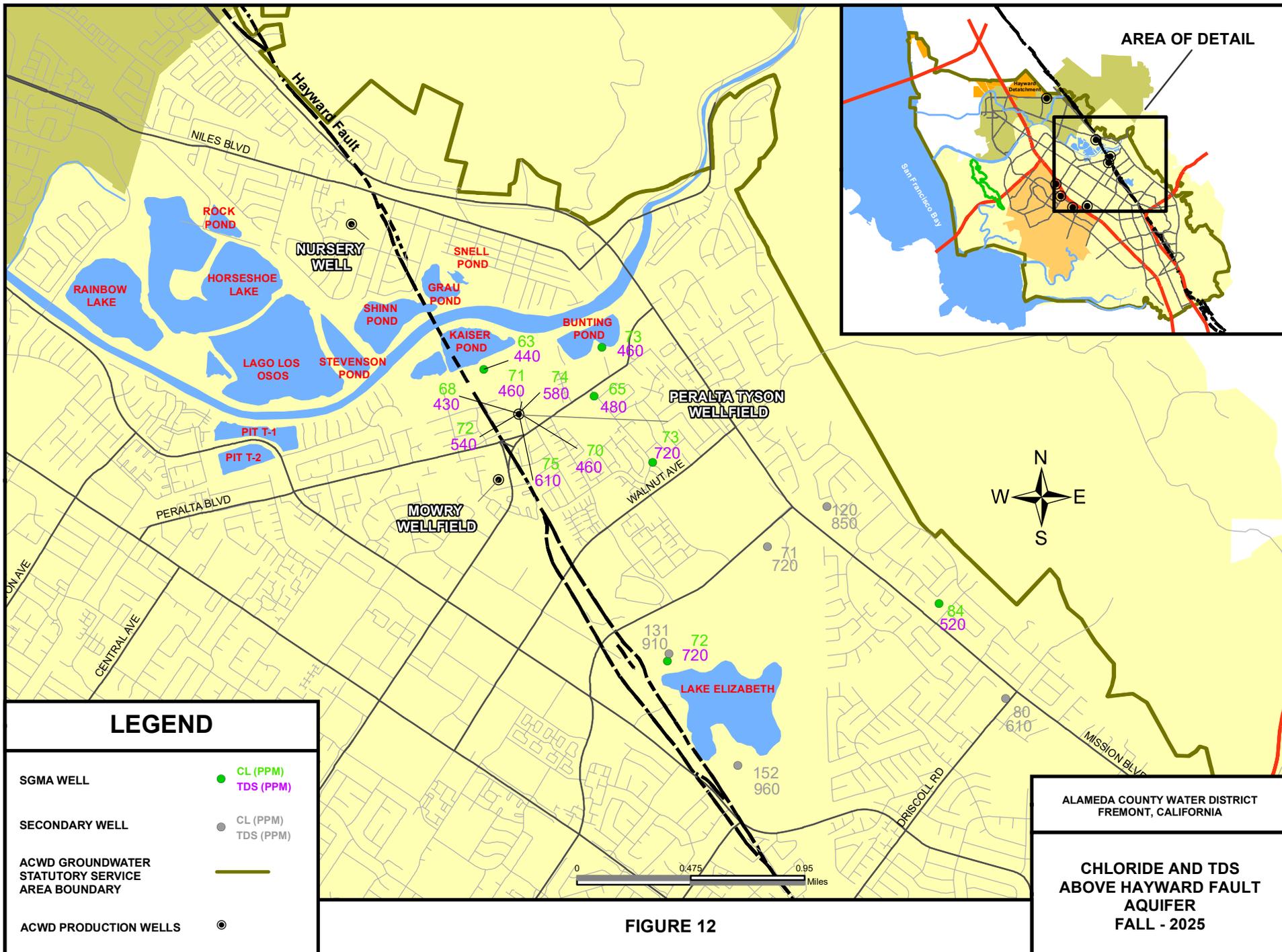
Coyote Creek

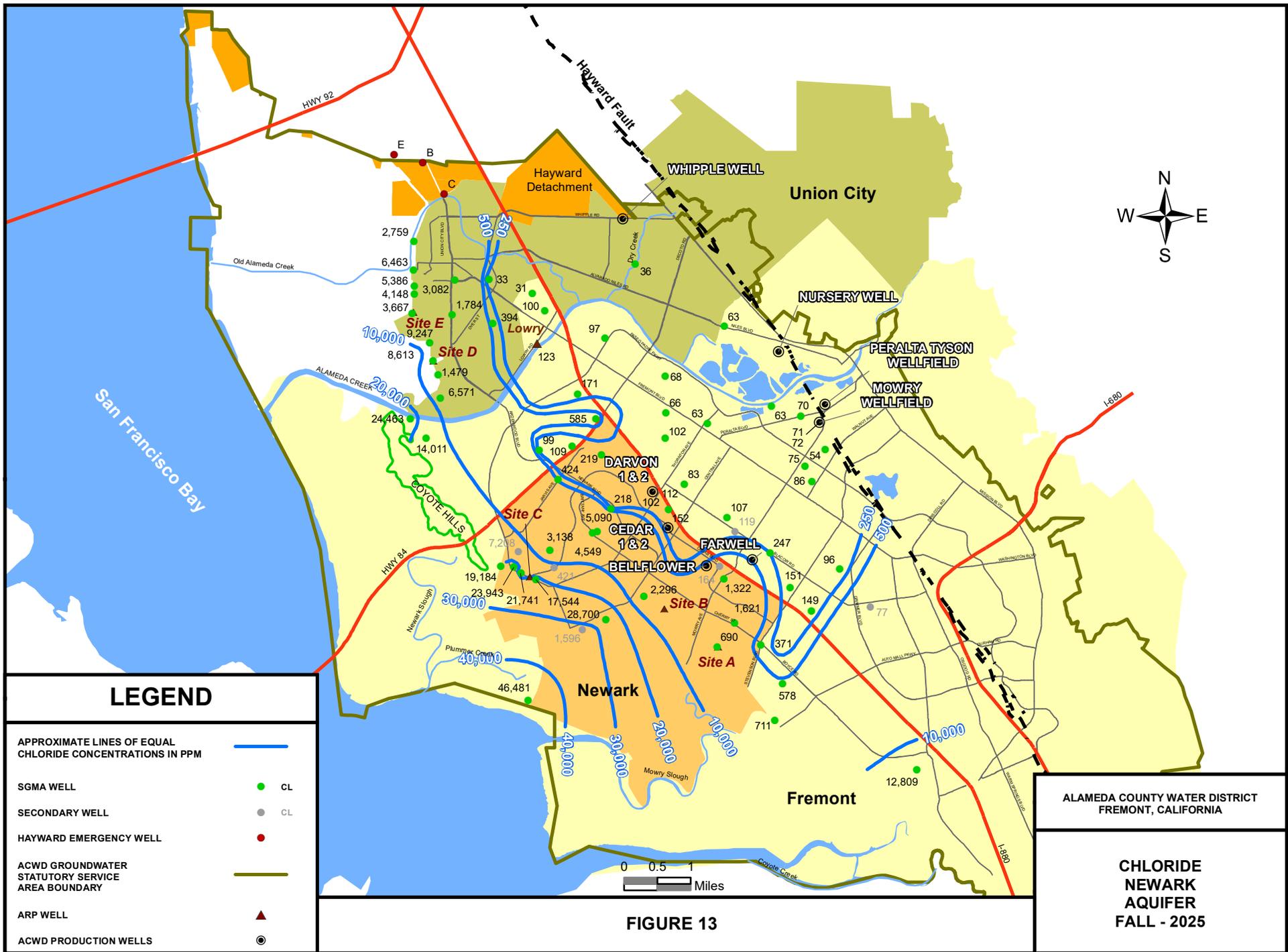
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B

C

WHIPPLE RD





LEGEND

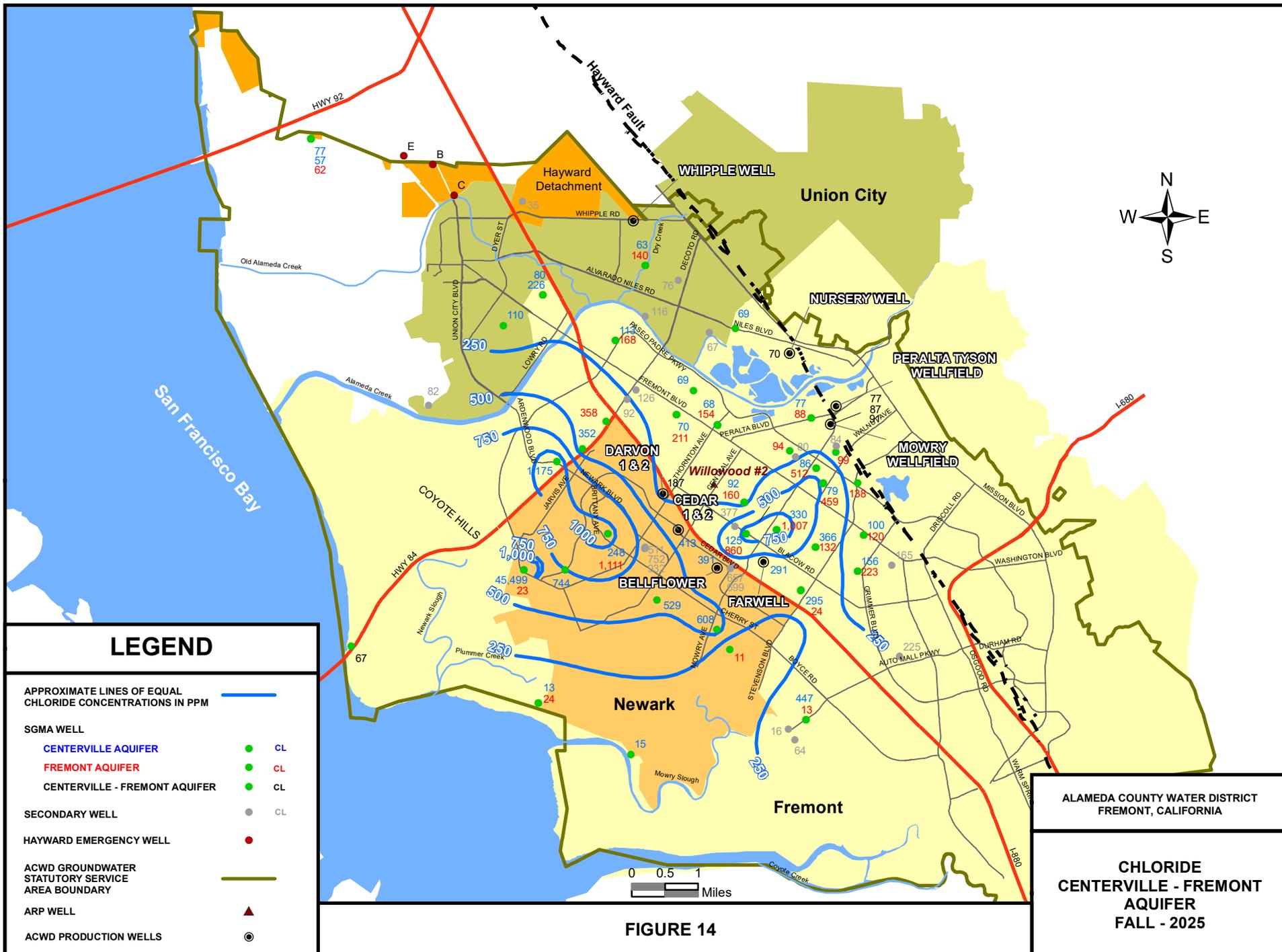
- APPROXIMATE LINES OF EQUAL CHLORIDE CONCENTRATIONS IN PPM —
- SGMA WELL ● CL
- SECONDARY WELL ● CL
- HAYWARD EMERGENCY WELL ●
- ACWD GROUNDWATER STATUTORY SERVICE AREA BOUNDARY
- ARP WELL ▲
- ACWD PRODUCTION WELLS

ALAMEDA COUNTY WATER DISTRICT
FREMONT, CALIFORNIA

**CHLORIDE
NEWARK
AQUIFER
FALL - 2025**



FIGURE 13



LEGEND

- APPROXIMATE LINES OF EQUAL CHLORIDE CONCENTRATIONS IN PPM —
- SGMA WELL
 - CL CENTERVILLE AQUIFER
 - CL FREMONT AQUIFER
 - CL CENTERVILLE - FREMONT AQUIFER
- SECONDARY WELL ● CL
- HAYWARD EMERGENCY WELL ●
- ACWD GROUNDWATER STATUTORY SERVICE AREA BOUNDARY
- ARP WELL ▲
- ACWD PRODUCTION WELLS

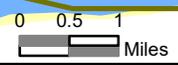
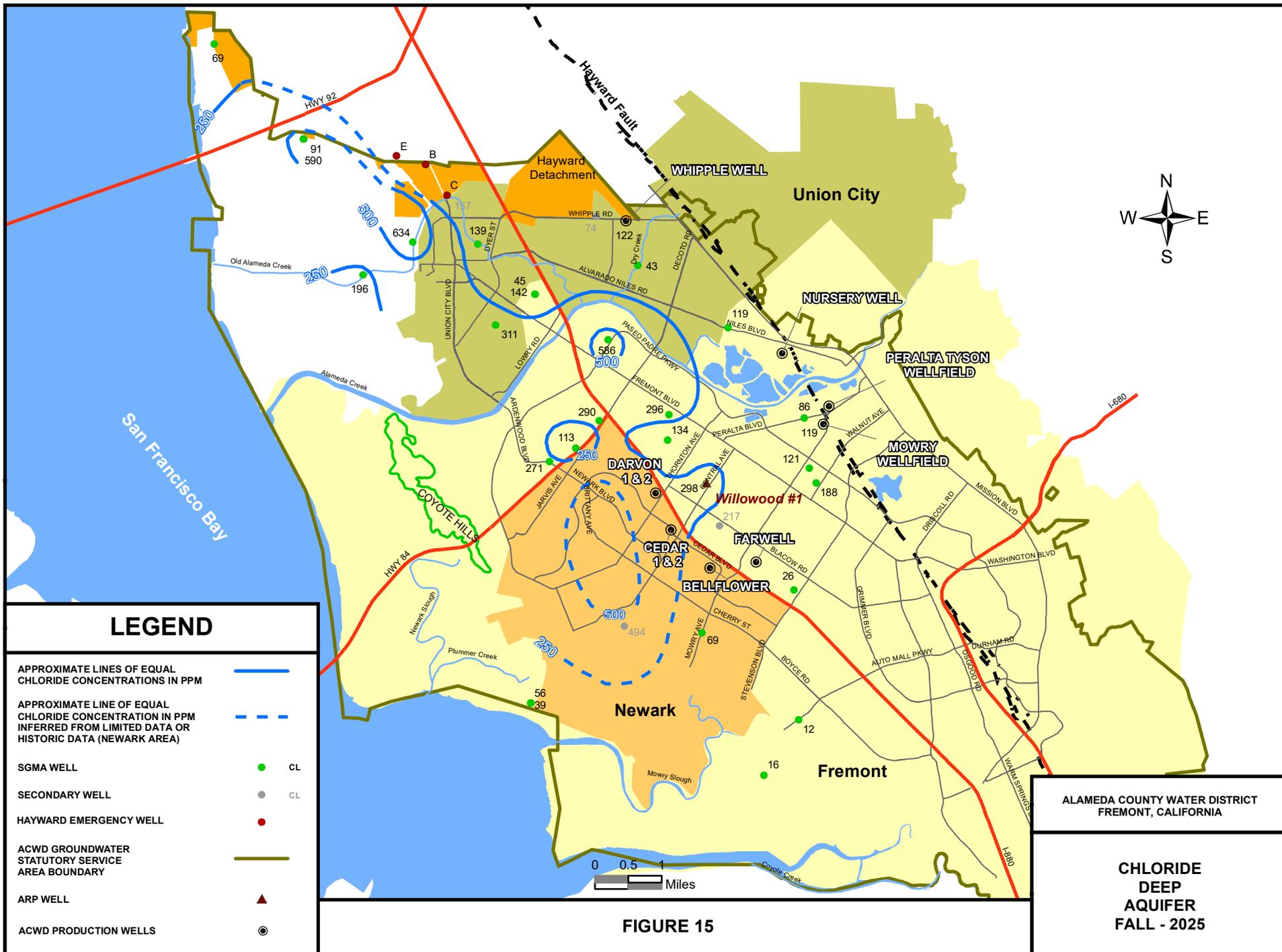


FIGURE 14

ALAMEDA COUNTY WATER DISTRICT
FREMONT, CALIFORNIA

CHLORIDE
CENTERVILLE - FREMONT
AQUIFER
FALL - 2025



LEGEND

- APPROXIMATE LINES OF EQUAL CHLORIDE CONCENTRATIONS IN PPM
- APPROXIMATE LINE OF EQUAL CHLORIDE CONCENTRATION IN PPM INFERRED FROM LIMITED DATA OR HISTORIC DATA (NEWARK AREA)
- SGMA WELL
- SECONDARY WELL
- HAYWARD EMERGENCY WELL
- ACWD GROUNDWATER STATUTORY SERVICE AREA BOUNDARY
- ARP WELL
- ACWD PRODUCTION WELLS

0 0.5 1 Miles

FIGURE 15

**ALAMEDA COUNTY WATER DISTRICT
FREMONT, CALIFORNIA**

**CHLORIDE DEEP AQUIFER
FALL - 2025**

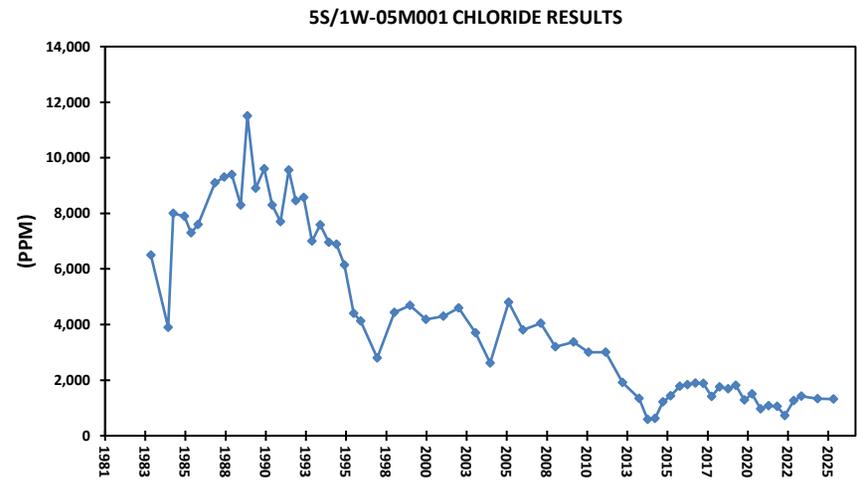
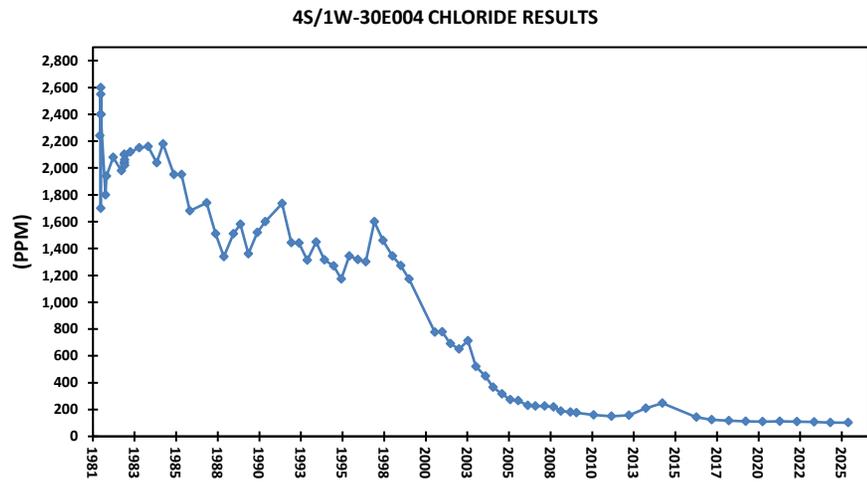
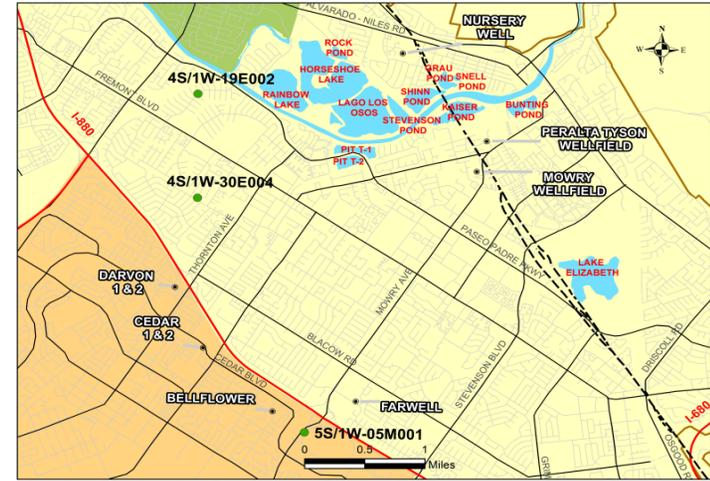
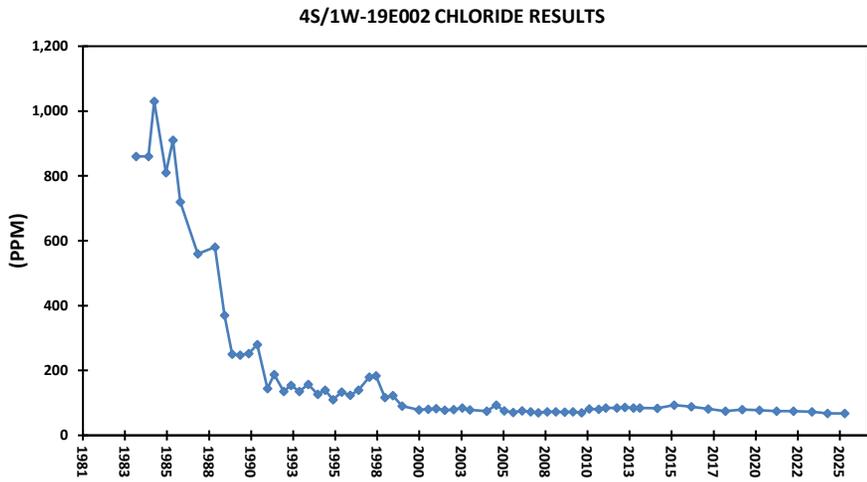
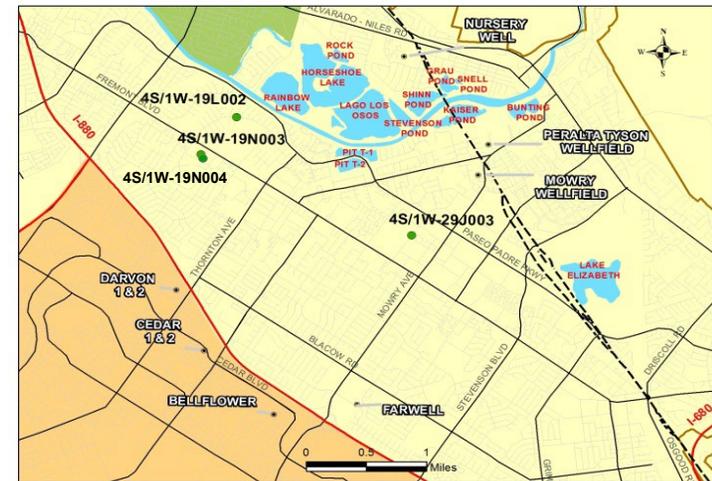
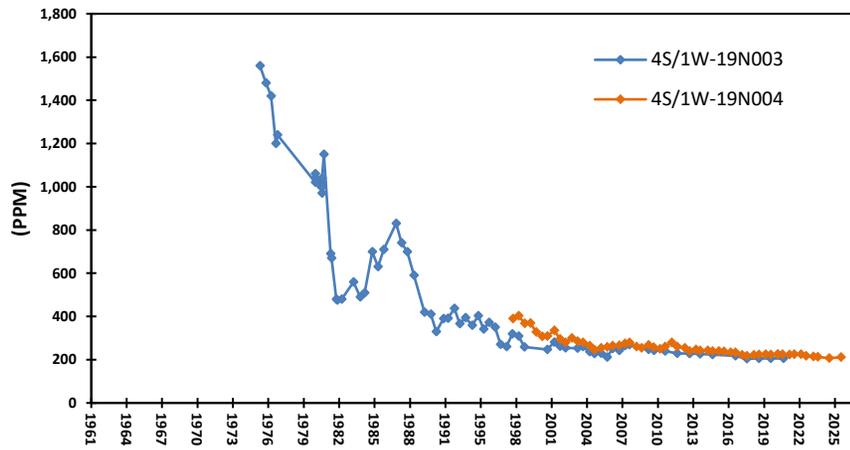
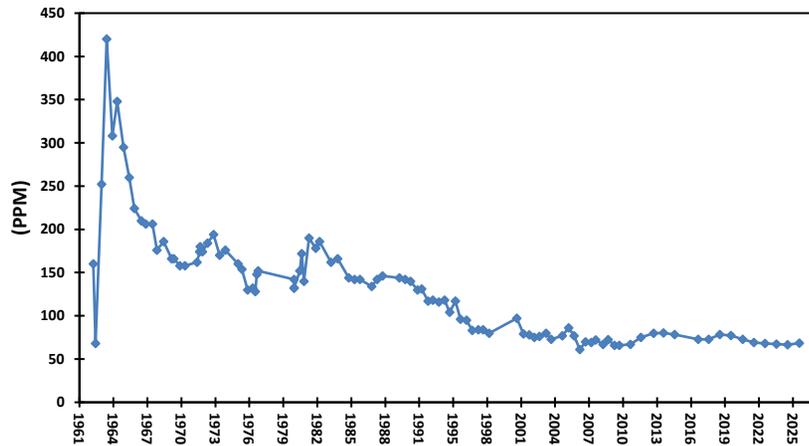


Figure 16
AREA OF IMPROVEMENT NEWARK AQUIFER

4S/1W-19N003 and 4S/1W-19N004 CHLORIDE RESULTS



4S/1W-19L002 CHLORIDE RESULTS



4S/1W-29J003 CHLORIDE RESULTS

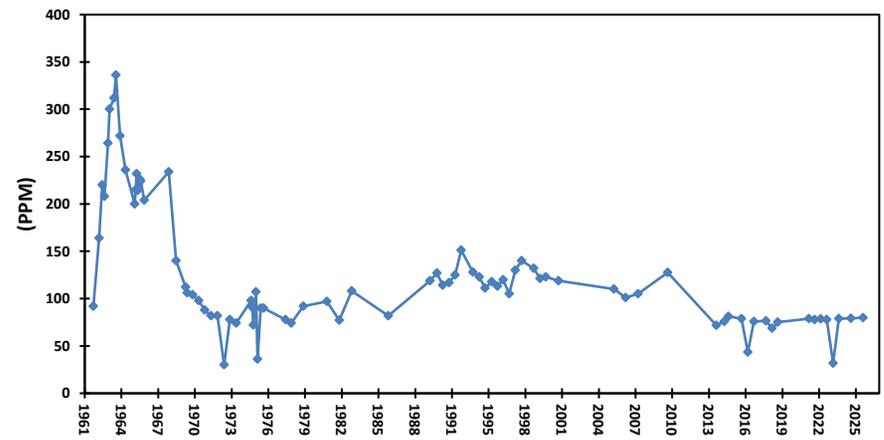


Figure 17
AREA OF IMPROVEMENT CENTERVILLE - FREMONT AQUIFER

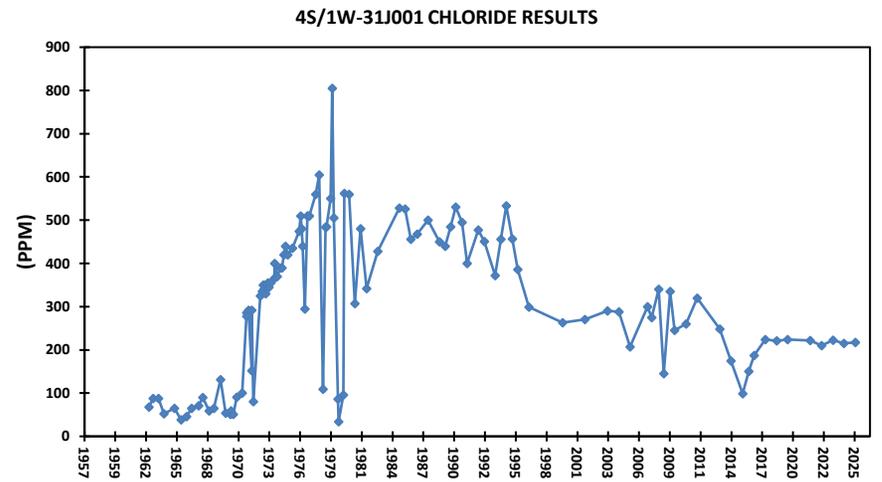
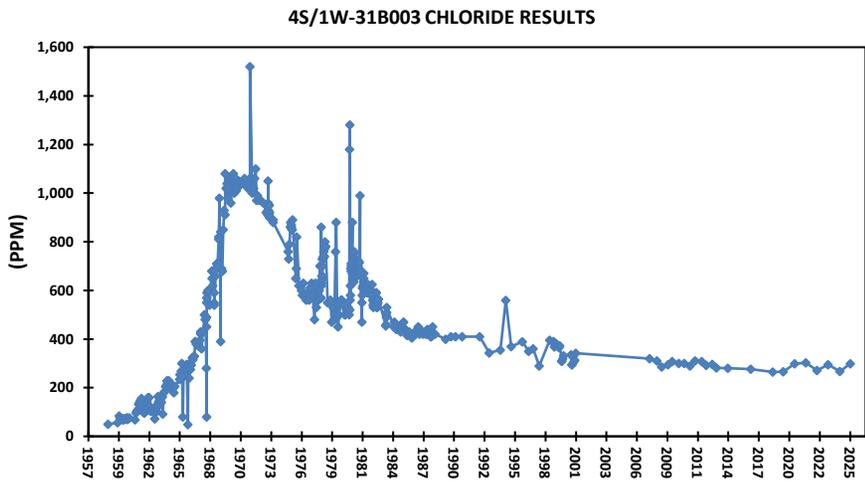
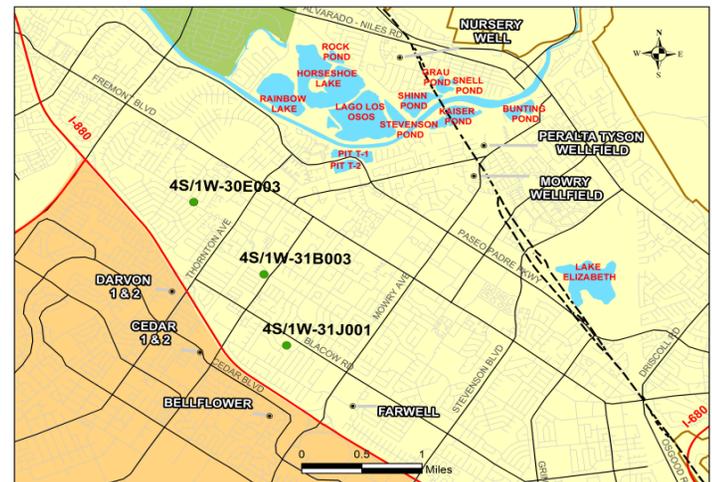
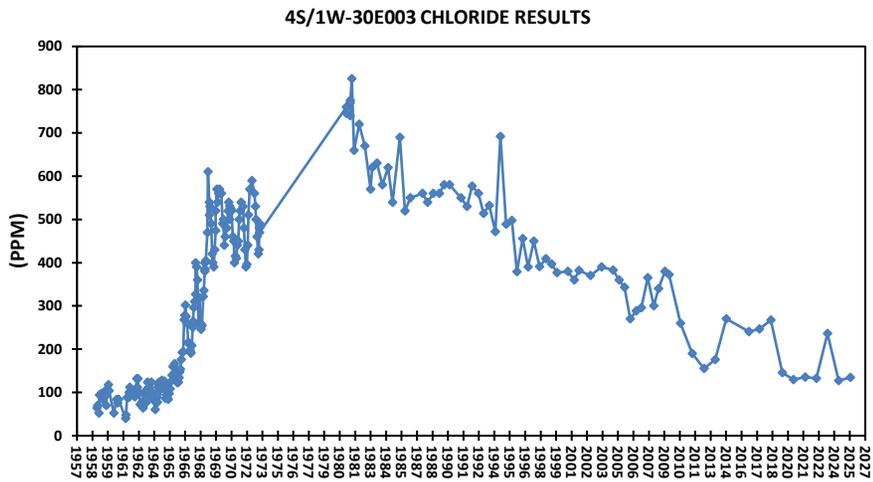
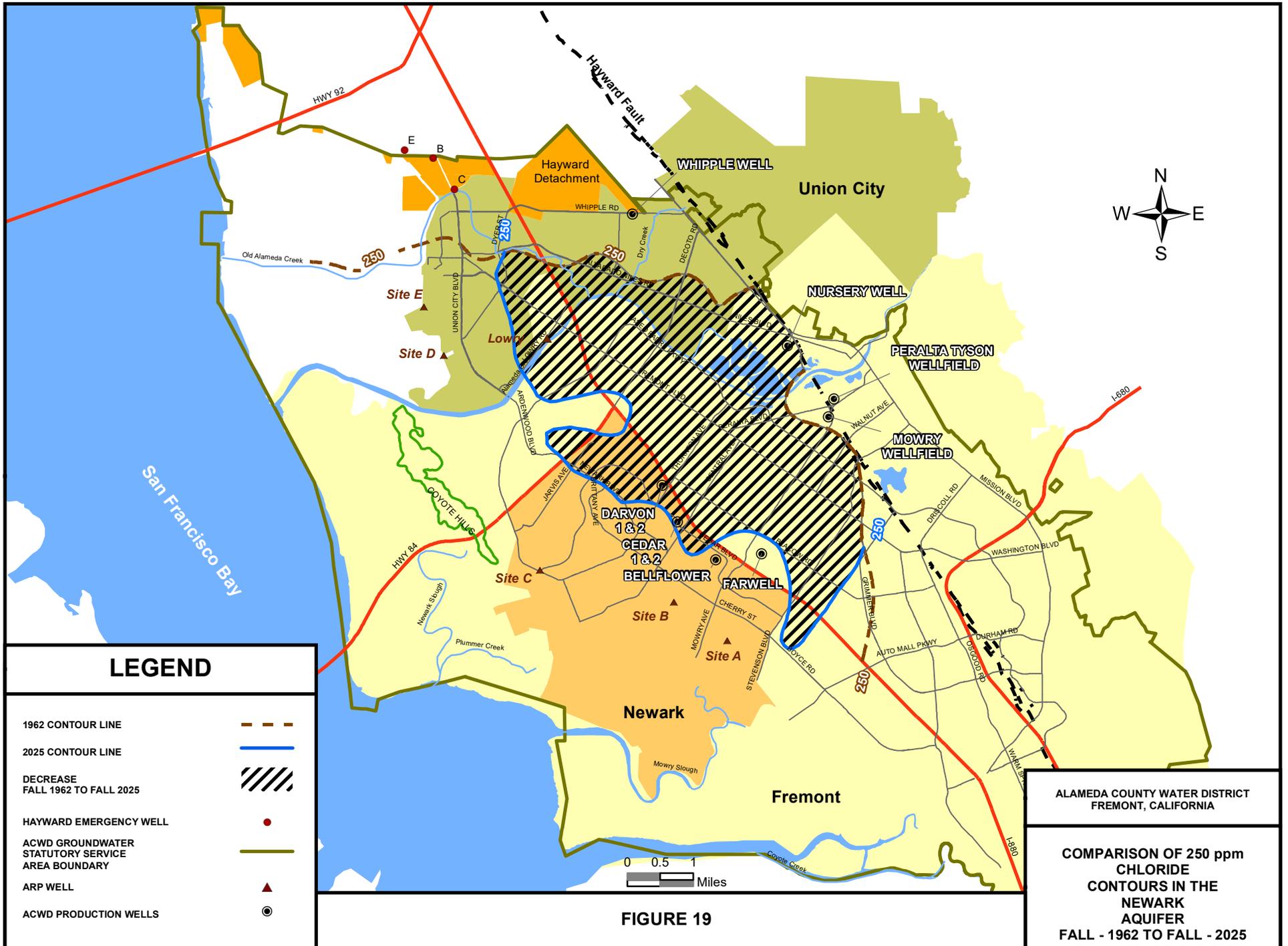


Figure 18
AREA OF IMPROVEMENT DEEP AQUIFER



LEGEND

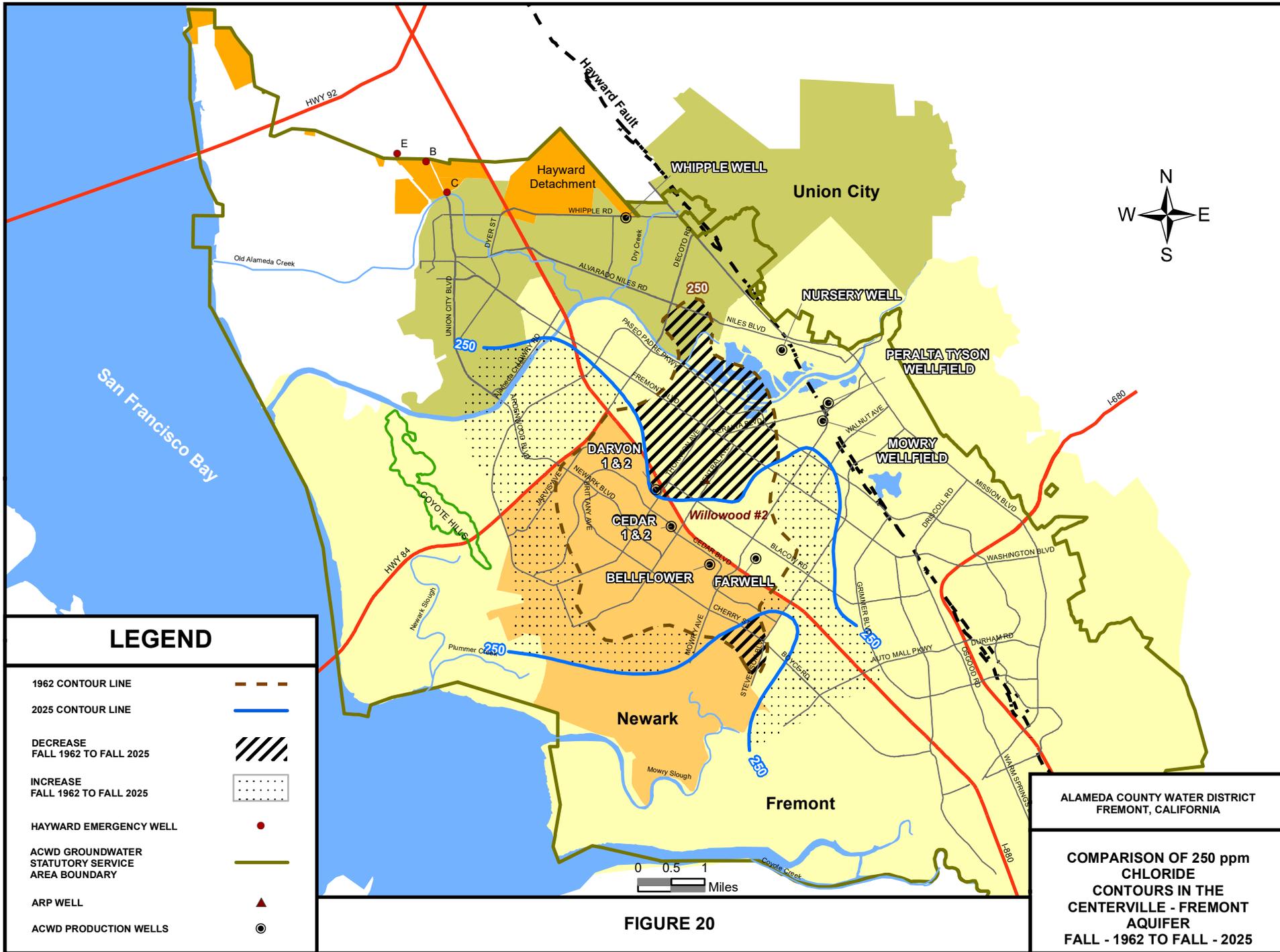
- 1962 CONTOUR LINE - - -
- 2025 CONTOUR LINE ———
- DECREASE
FALL 1962 TO FALL 2025 ▨
- HAYWARD EMERGENCY WELL ●
- ACWD GROUNDWATER
STATUTORY SERVICE
AREA BOUNDARY ———
- ARP WELL ▲
- ACWD PRODUCTION WELLS ●

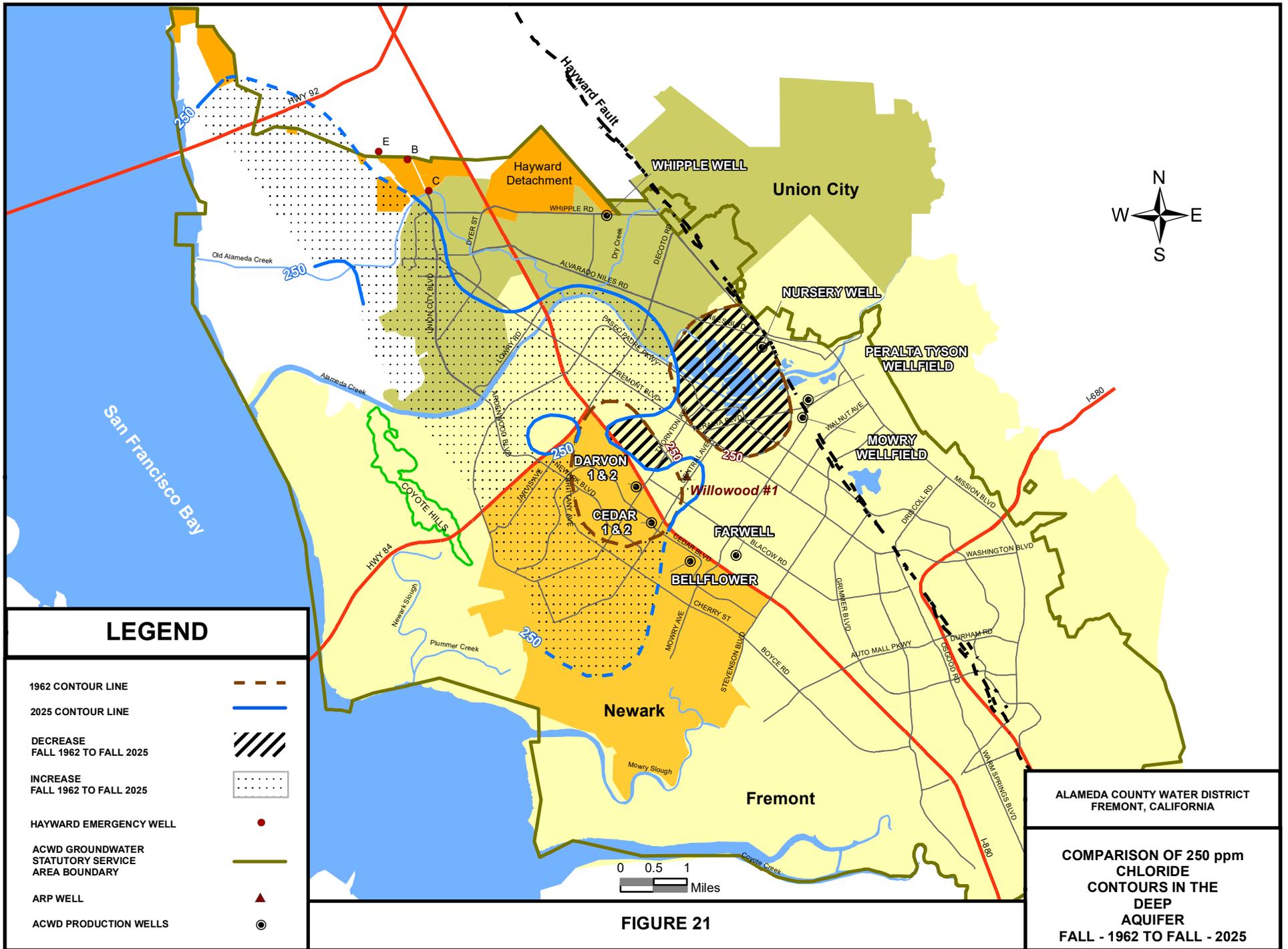
ALAMEDA COUNTY WATER DISTRICT
FREMONT, CALIFORNIA

COMPARISON OF 250 ppm
CHLORIDE
CONTOURS IN THE
NEWARK
AQUIFER
FALL - 1962 TO FALL - 2025

FIGURE 19

0 0.5 1
Miles





LEGEND

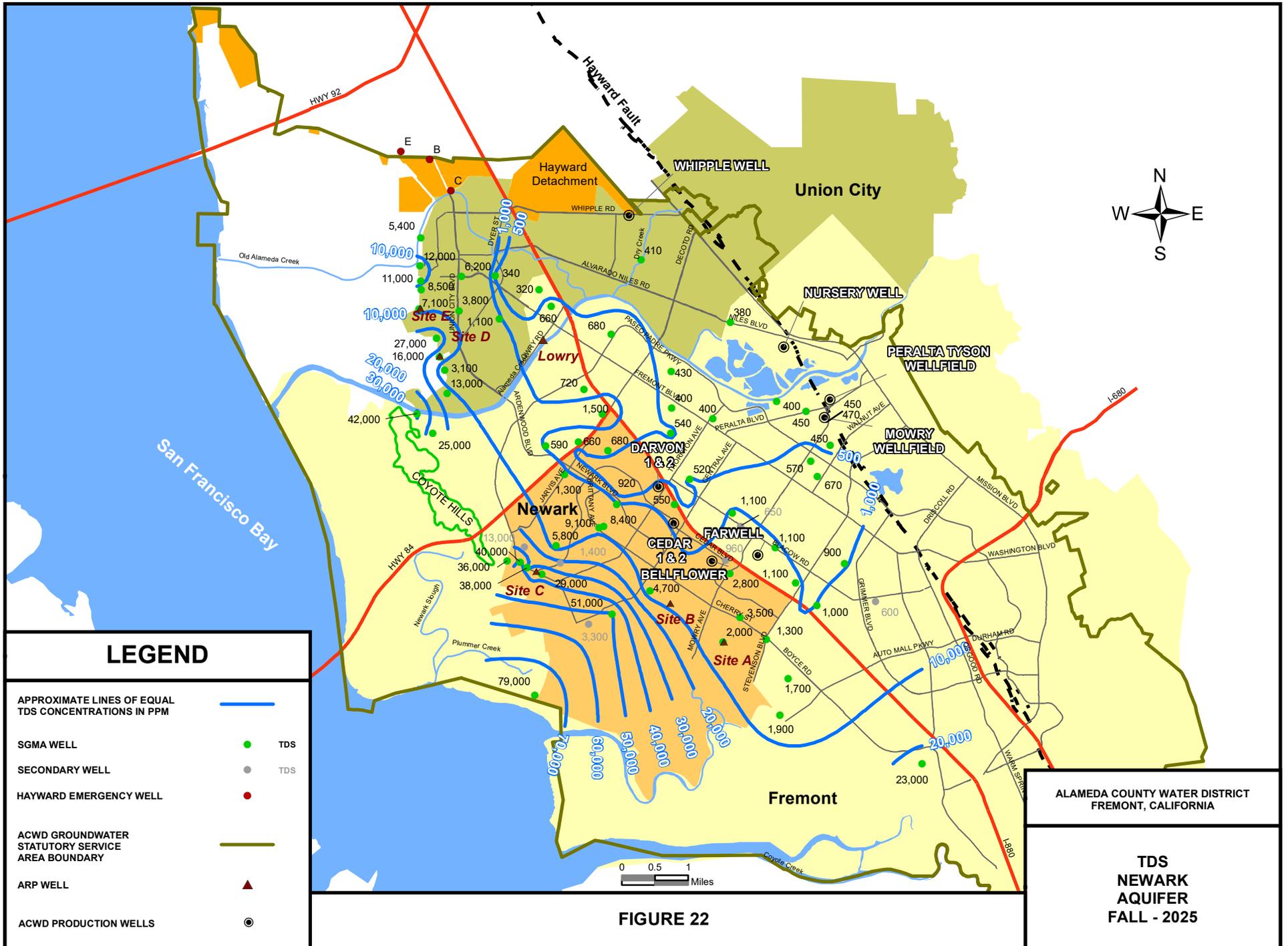
- 1962 CONTOUR LINE - - - - -
- 2025 CONTOUR LINE —————
- DECREASE
FALL 1962 TO FALL 2025 ▨▨▨▨▨
- INCREASE
FALL 1962 TO FALL 2025 ⋯⋯⋯⋯
- HAYWARD EMERGENCY WELL ●
- ACWD GROUNDWATER
STATUTORY SERVICE
AREA BOUNDARY —————
- ARP WELL ▲
- ACWD PRODUCTION WELLS ◎

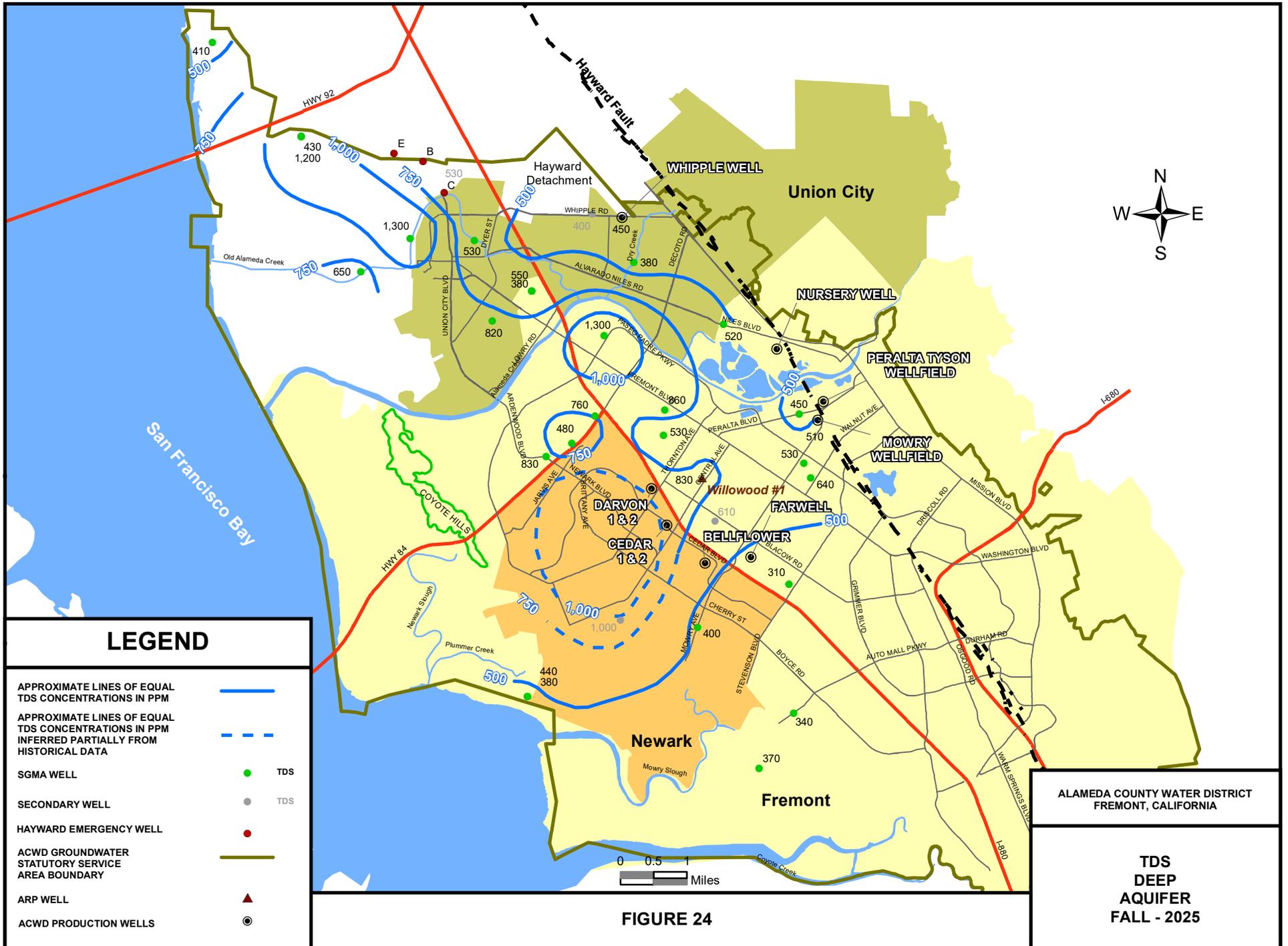
0 0.5 1
Miles

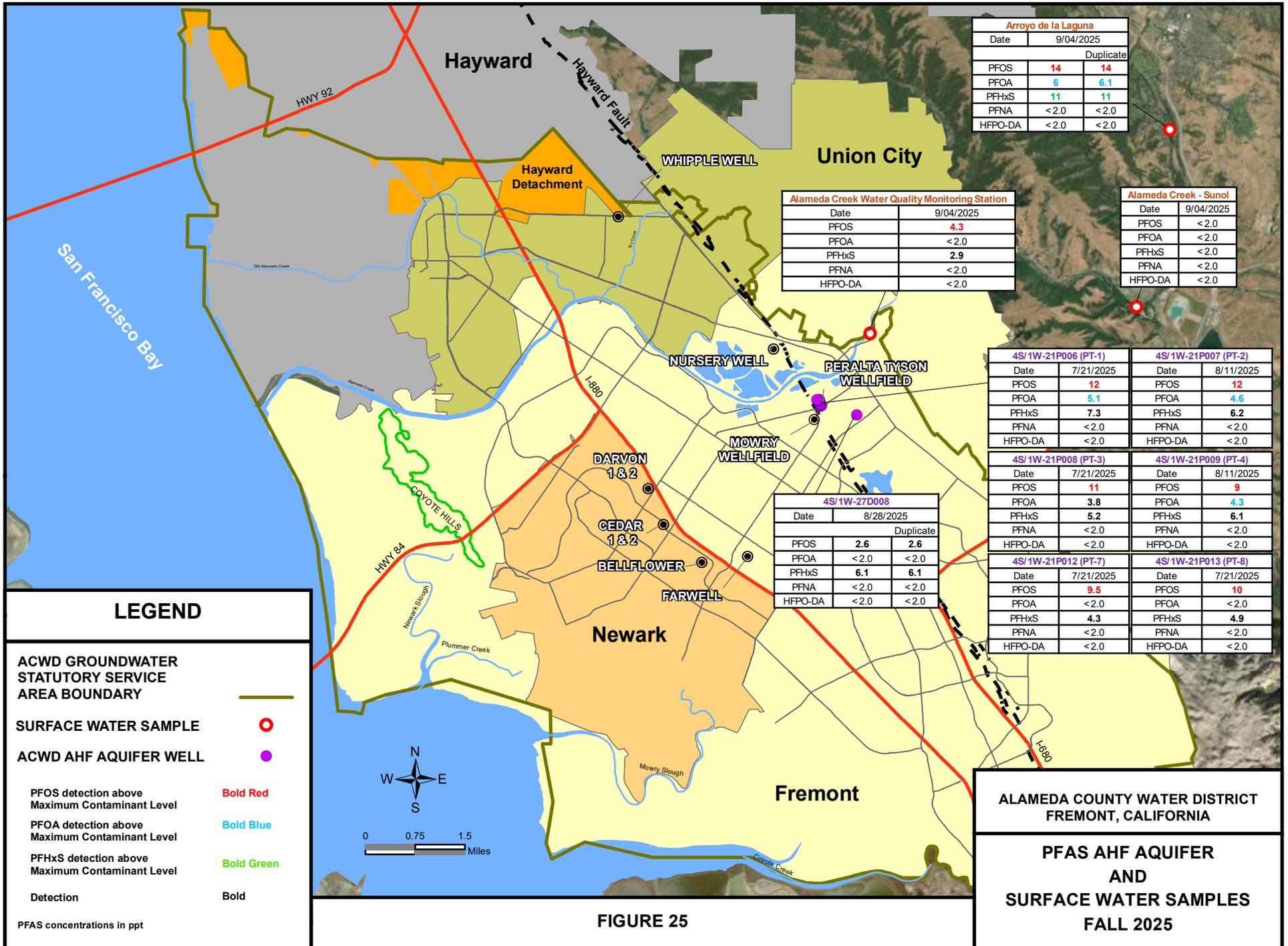
FIGURE 21

ALAMEDA COUNTY WATER DISTRICT
FREMONT, CALIFORNIA

**COMPARISON OF 250 ppm
CHLORIDE
CONTOURS IN THE
DEEP
AQUIFER
FALL - 1962 TO FALL - 2025**







Arroyo de la Laguna		
Date	9/04/2025	
	Duplicate	
PFOS	14	14
PFOA	6	6.1
PFHxS	11	11
PFNA	<2.0	<2.0
HFPO-DA	<2.0	<2.0

Alameda Creek Water Quality Monitoring Station	
Date	9/04/2025
PFOS	4.3
PFOA	<2.0
PFHxS	2.9
PFNA	<2.0
HFPO-DA	<2.0

Alameda Creek - Sunol	
Date	9/04/2025
PFOS	<2.0
PFOA	<2.0
PFHxS	<2.0
PFNA	<2.0
HFPO-DA	<2.0

4S/1W-21P006 (PT-1)		4S/1W-21P007 (PT-2)	
Date	7/21/2025	Date	8/11/2025
PFOS	12	PFOS	12
PFOA	5.1	PFOA	4.6
PFHxS	7.3	PFHxS	6.2
PFNA	<2.0	PFNA	<2.0
HFPO-DA	<2.0	HFPO-DA	<2.0

4S/1W-21P008 (PT-3)		4S/1W-21P009 (PT-4)	
Date	7/21/2025	Date	8/11/2025
PFOS	11	PFOS	9
PFOA	3.8	PFOA	4.3
PFHxS	5.2	PFHxS	6.1
PFNA	<2.0	PFNA	<2.0
HFPO-DA	<2.0	HFPO-DA	<2.0

4S/1W-27D008		
Date	8/28/2025	
	Duplicate	
PFOS	2.6	2.6
PFOA	<2.0	<2.0
PFHxS	6.1	6.1
PFNA	<2.0	<2.0
HFPO-DA	<2.0	<2.0

4S/1W-21P012 (PT-7)		4S/1W-21P013 (PT-8)	
Date	7/21/2025	Date	7/21/2025
PFOS	9.5	PFOS	10
PFOA	<2.0	PFOA	<2.0
PFHxS	4.3	PFHxS	4.9
PFNA	<2.0	PFNA	<2.0
HFPO-DA	<2.0	HFPO-DA	<2.0

LEGEND

ACWD GROUNDWATER STATUTORY SERVICE AREA BOUNDARY

SURFACE WATER SAMPLE ○

ACWD AHF AQUIFER WELL ●

PFOS detection above Maximum Contaminant Level Bold Red

PFOA detection above Maximum Contaminant Level Bold Blue

PFHxS detection above Maximum Contaminant Level Bold Green

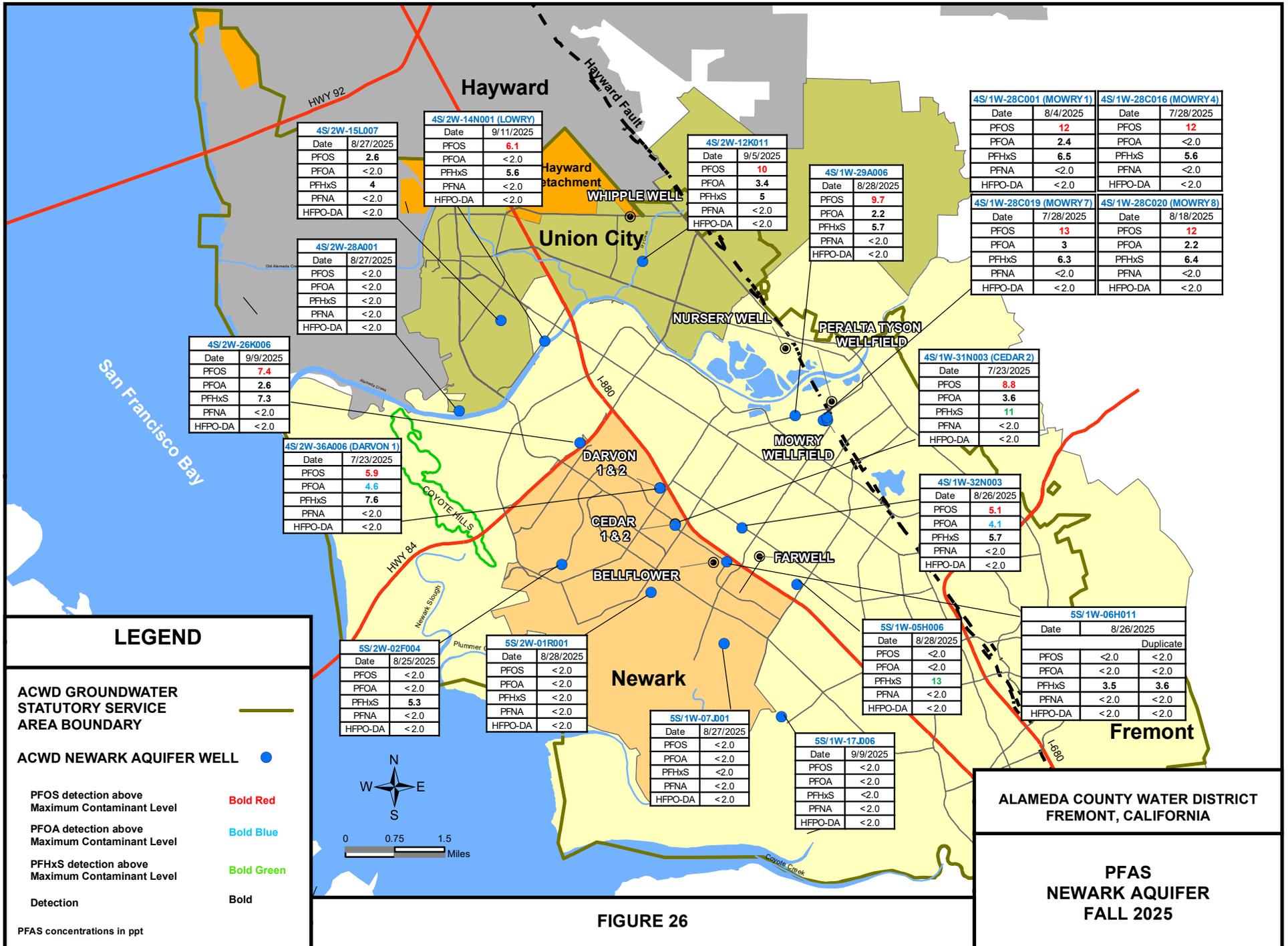
Detection Bold

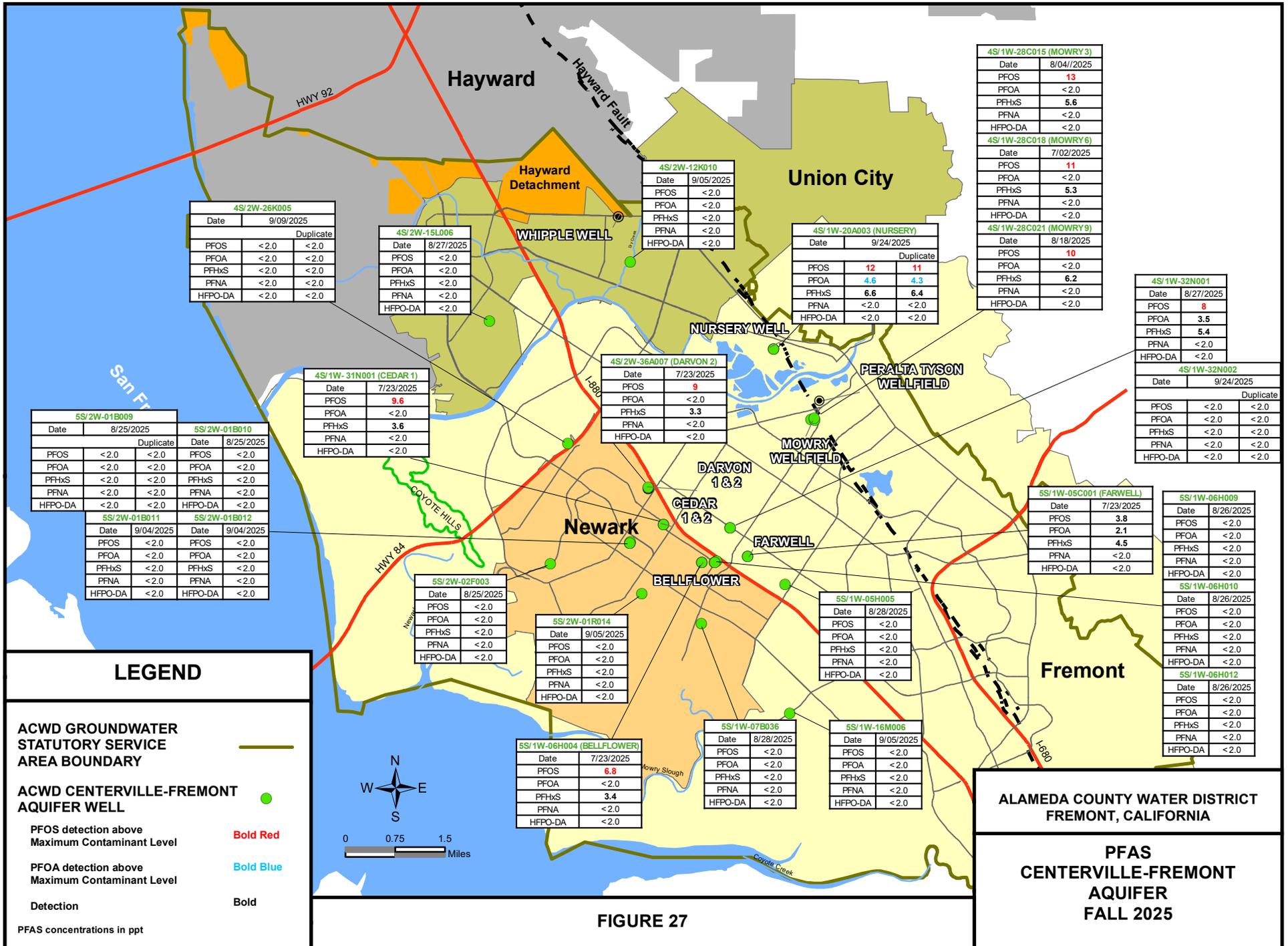
PFAS concentrations in ppt

ALAMEDA COUNTY WATER DISTRICT
FREMONT, CALIFORNIA

PFAS AHF AQUIFER
AND
SURFACE WATER SAMPLES
FALL 2025

FIGURE 25





4S/2W-26K005			
Date	9/09/2025		Duplicate
PFOS	<2.0	<2.0	<2.0
PFOA	<2.0	<2.0	<2.0
PFHxS	<2.0	<2.0	<2.0
PFNA	<2.0	<2.0	<2.0
HFPO-DA	<2.0	<2.0	<2.0

4S/2W-15L006			
Date	8/27/2025		
PFOS	<2.0		
PFOA	<2.0		
PFHxS	<2.0		
PFNA	<2.0		
HFPO-DA	<2.0		

4S/2W-12K010			
Date	9/05/2025		
PFOS	<2.0		
PFOA	<2.0		
PFHxS	<2.0		
PFNA	<2.0		
HFPO-DA	<2.0		

4S/1W-20A003 (NURSERY)				
Date	9/24/2025			
	Duplicate			
PFOS	12	11		
PFOA	4.6	4.3		
PFHxS	6.6	6.4		
PFNA	<2.0	<2.0		
HFPO-DA	<2.0	<2.0		

4S/1W-28C015 (MOWRY 3)			
Date	8/04/2025		
PFOS	13		
PFOA	<2.0		
PFHxS	5.6		
PFNA	<2.0		
HFPO-DA	<2.0		

4S/1W-28C018 (MOWRY 6)			
Date	7/02/2025		
PFOS	11		
PFOA	<2.0		
PFHxS	5.3		
PFNA	<2.0		
HFPO-DA	<2.0		

4S/1W-28C021 (MOWRY 9)			
Date	8/18/2025		
PFOS	10		
PFOA	<2.0		
PFHxS	6.2		
PFNA	<2.0		
HFPO-DA	<2.0		

4S/1W-32N001			
Date	8/27/2025		
PFOS	8		
PFOA	3.5		
PFHxS	5.4		
PFNA	<2.0		
HFPO-DA	<2.0		

4S/1W-32N002			
Date	9/24/2025		
	Duplicate		
PFOS	<2.0	<2.0	<2.0
PFOA	<2.0	<2.0	<2.0
PFHxS	<2.0	<2.0	<2.0
PFNA	<2.0	<2.0	<2.0
HFPO-DA	<2.0	<2.0	<2.0

5S/2W-01B009			
Date	8/25/2025		5S/2W-01B010
	Duplicate		Date
PFOS	<2.0	<2.0	8/25/2025
PFOA	<2.0	<2.0	8/25/2025
PFHxS	<2.0	<2.0	8/25/2025
PFNA	<2.0	<2.0	8/25/2025
HFPO-DA	<2.0	<2.0	8/25/2025

5S/2W-01B011			
Date	9/04/2025		
PFOS	<2.0	<2.0	<2.0
PFOA	<2.0	<2.0	<2.0
PFHxS	<2.0	<2.0	<2.0
PFNA	<2.0	<2.0	<2.0
HFPO-DA	<2.0	<2.0	<2.0

4S/1W-31N001 (CEDAR 1)			
Date	7/23/2025		
PFOS	9.6		
PFOA	<2.0		
PFHxS	3.6		
PFNA	<2.0		
HFPO-DA	<2.0		

4S/2W-36A007 (DARVON 2)			
Date	7/23/2025		
PFOS	9		
PFOA	<2.0		
PFHxS	3.3		
PFNA	<2.0		
HFPO-DA	<2.0		

5S/1W-05C001 (FARWELL)			
Date	7/23/2025		
PFOS	3.8		
PFOA	2.1		
PFHxS	4.5		
PFNA	<2.0		
HFPO-DA	<2.0		

5S/1W-06H009			
Date	8/26/2025		
PFOS	<2.0		
PFOA	<2.0		
PFHxS	<2.0		
PFNA	<2.0		
HFPO-DA	<2.0		

5S/2W-02F003			
Date	8/25/2025		
PFOS	<2.0		
PFOA	<2.0		
PFHxS	<2.0		
PFNA	<2.0		
HFPO-DA	<2.0		

5S/2W-01R014			
Date	9/05/2025		
PFOS	<2.0		
PFOA	<2.0		
PFHxS	<2.0		
PFNA	<2.0		
HFPO-DA	<2.0		

5S/1W-05H005			
Date	8/28/2025		
PFOS	<2.0		
PFOA	<2.0		
PFHxS	<2.0		
PFNA	<2.0		
HFPO-DA	<2.0		

5S/1W-06H010			
Date	8/26/2025		
PFOS	<2.0		
PFOA	<2.0		
PFHxS	<2.0		
PFNA	<2.0		
HFPO-DA	<2.0		

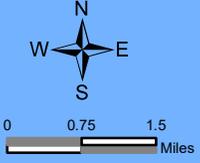
5S/1W-06H004 (BELLFLOWER)			
Date	7/23/2025		
PFOS	6.8		
PFOA	<2.0		
PFHxS	3.4		
PFNA	<2.0		
HFPO-DA	<2.0		

5S/1W-07B036			
Date	8/28/2025		
PFOS	<2.0		
PFOA	<2.0		
PFHxS	<2.0		
PFNA	<2.0		
HFPO-DA	<2.0		

5S/1W-16M006			
Date	9/05/2025		
PFOS	<2.0		
PFOA	<2.0		
PFHxS	<2.0		
PFNA	<2.0		
HFPO-DA	<2.0		

LEGEND

- ACWD GROUNDWATER STATUTORY SERVICE AREA BOUNDARY
- ACWD CENTERVILLE-FREMONT AQUIFER WELL
- PFOS detection above Maximum Contaminant Level **Bold Red**
- PFOA detection above Maximum Contaminant Level **Bold Blue**
- Detection **Bold**
- PFAS concentrations in ppt



ALAMEDA COUNTY WATER DISTRICT
FREMONT, CALIFORNIA

PFAS
CENTERVILLE-FREMONT
AQUIFER
FALL 2025

FIGURE 27

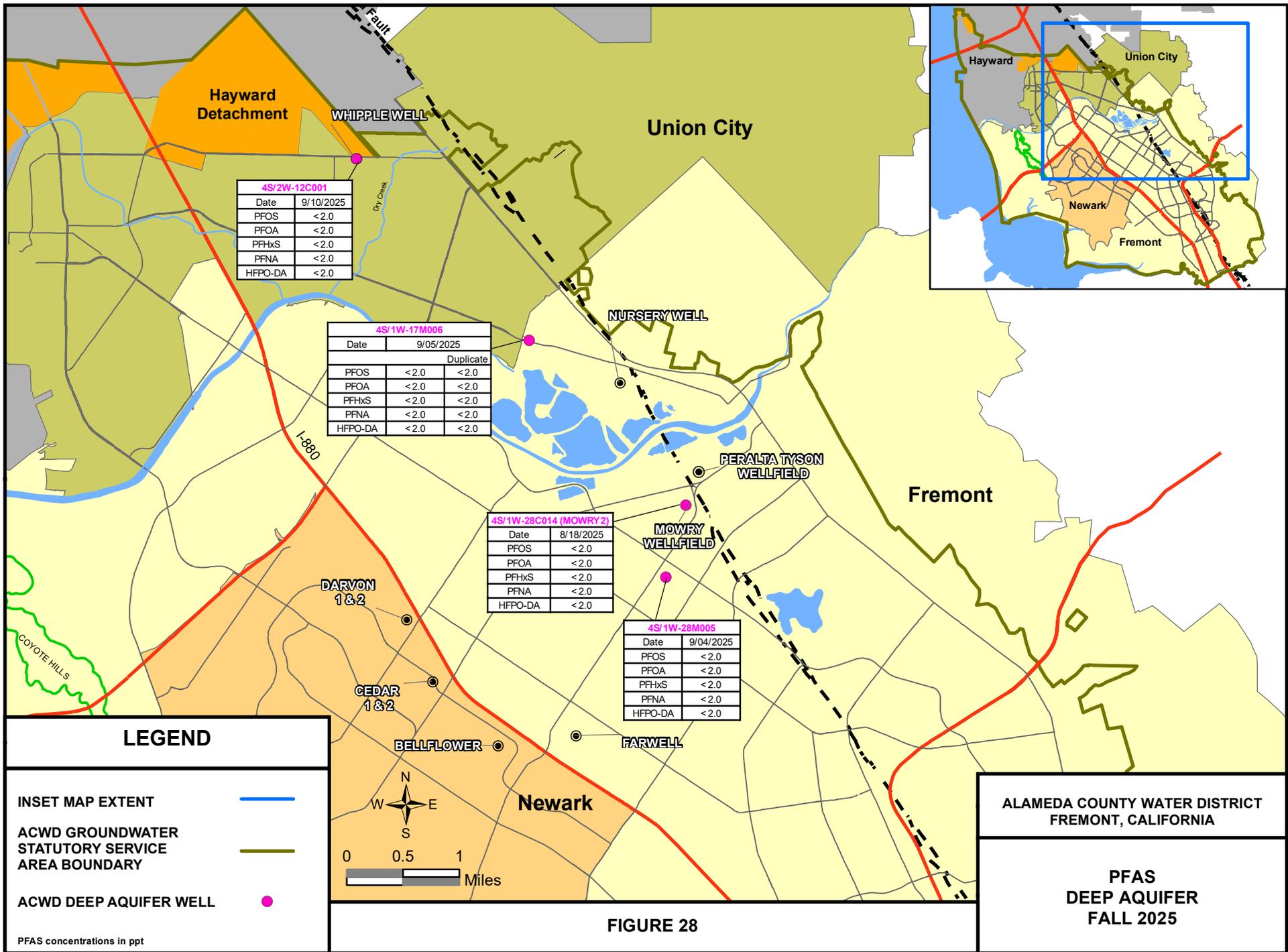


FIGURE 28

ALAMEDA COUNTY WATER DISTRICT
 FREMONT, CALIFORNIA

PFAS
 DEEP AQUIFER
 FALL 2025

PFAS concentrations in ppt

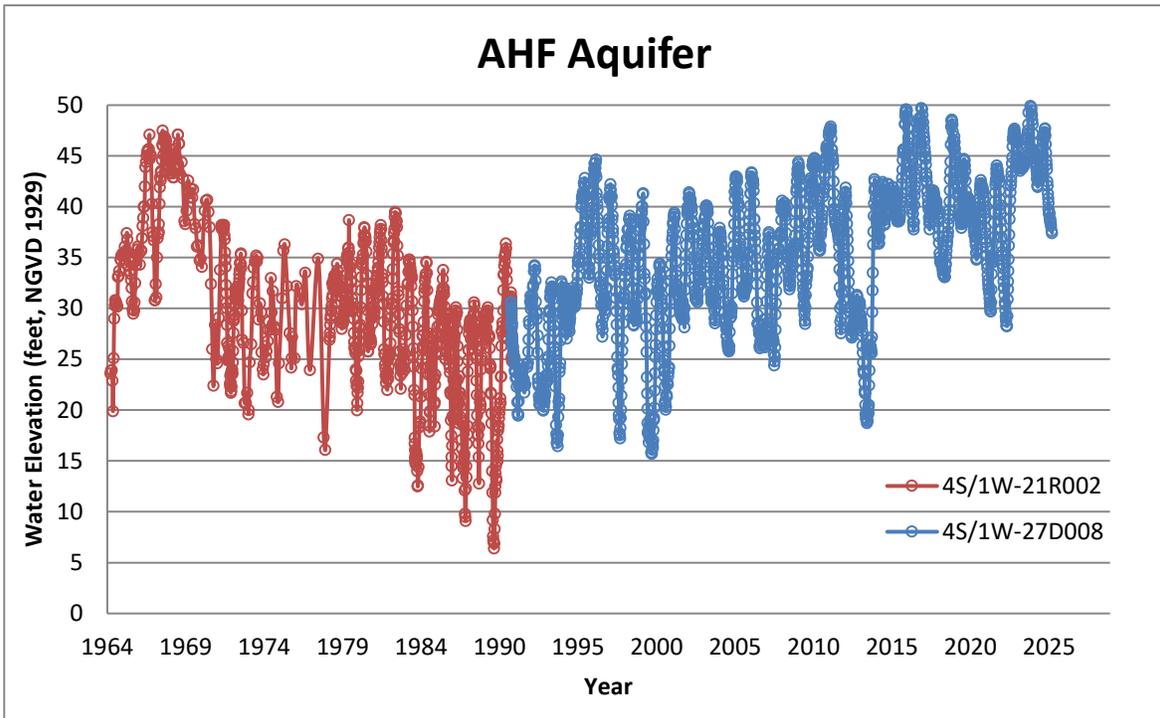
APPENDIX C

OBSERVED HISTORICAL GROUNDWATER ELEVATIONS

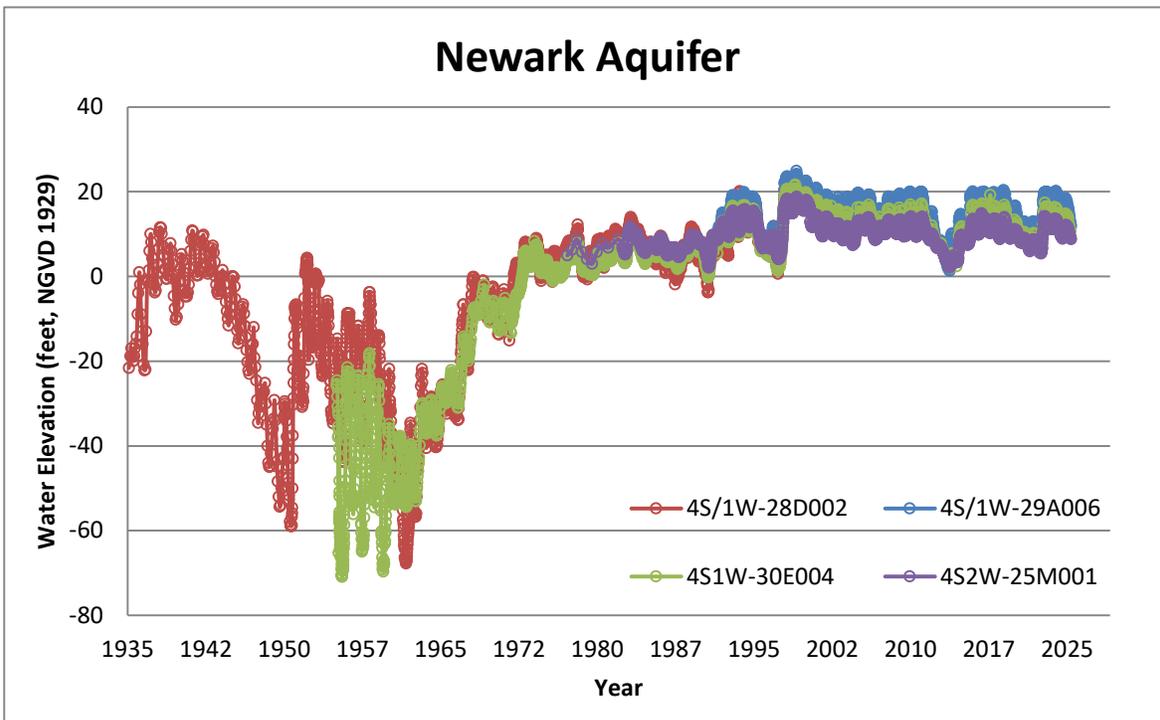
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Observed Historical Groundwater Elevations

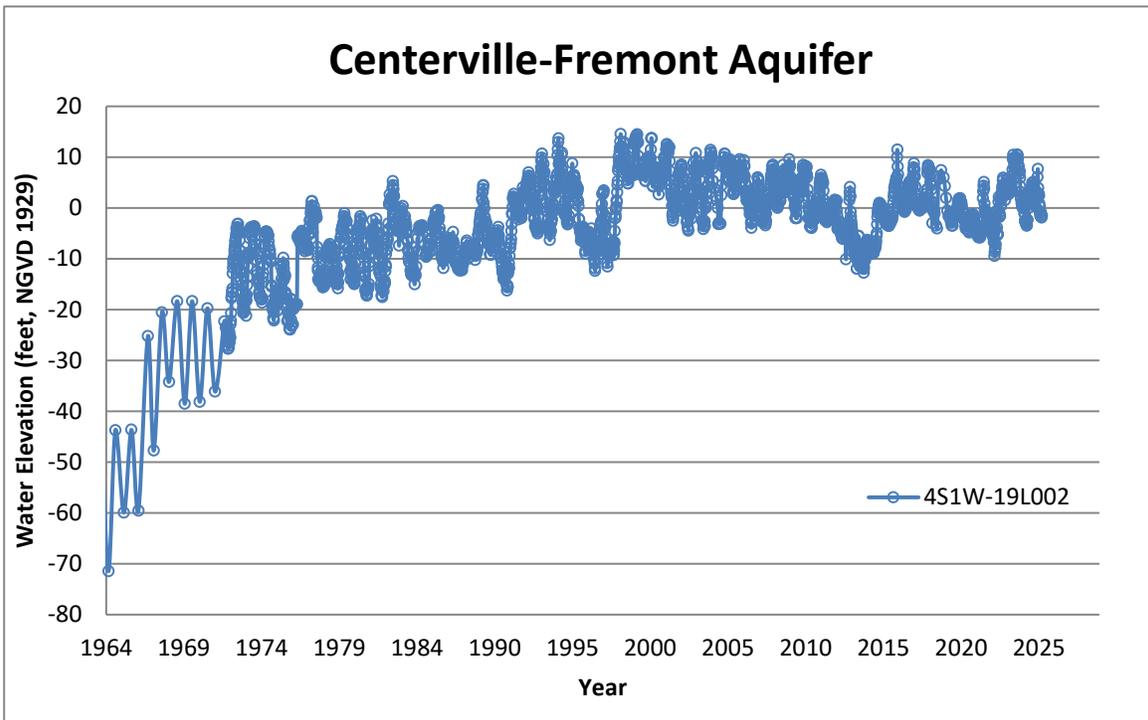
A



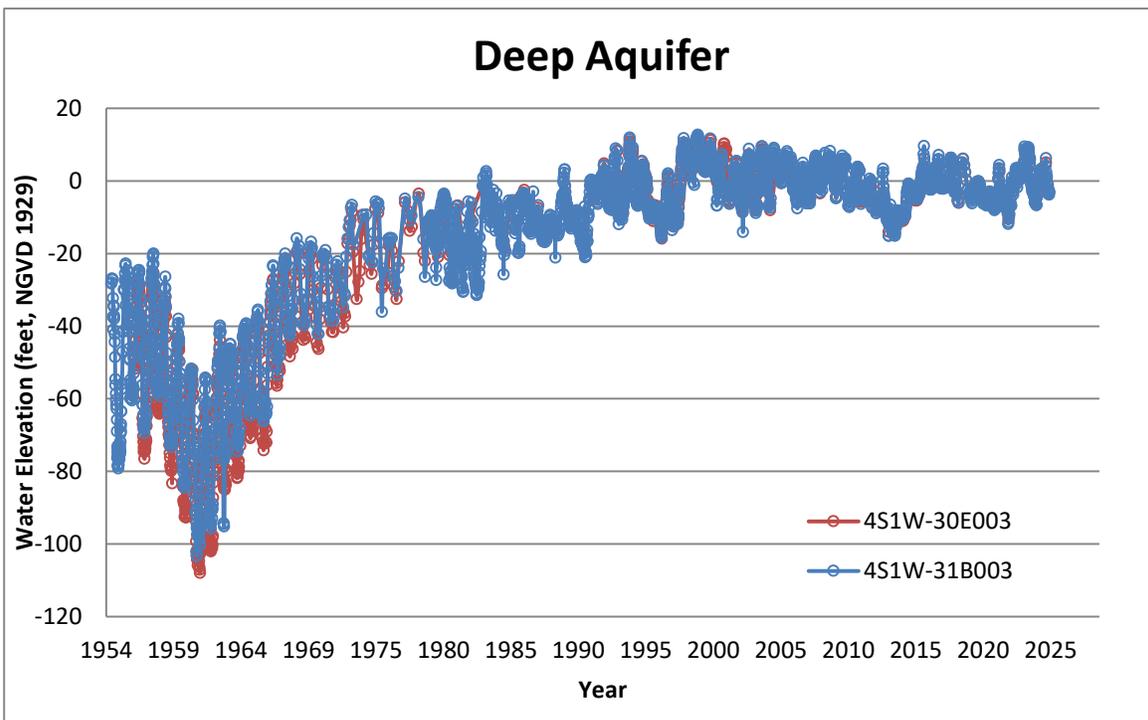
B



C



D



APPENDIX D
PFAS ANALYTICAL
DATA WY 2024/25

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WY24/25 PFAS Analytical Data

Well Number	Alternate Well ID	Aquifer	Sample Date	Notes	PFOS	PFOA	PFBS	PFHpA	PFHxS	PFNA	PFDA	PFDoA	PFHxA	PFUnA	HFPO- DA	9CI- PF3ONS	11CI- PF3OUdS	ADONA	4:2FTS		
MCL					4	4			10	10					10						
4S/1W-28C001	Mowry 1	N	2024-11-06		12	2.8	7.4	< 2.0	6.3	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0		
			2025-02-03		12	2.3	7.2	< 2.0	6.2	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	
			2025-04-23		12	2.5	7.1	< 2.0	6.1	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	
			2025-08-04		12	2.4	6.3	< 2.0	6.5	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	
4S/1W-28C014	Mowry 2	D	2024-11-13		< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	
			2025-02-12		< 2.0	< 2.0	< 2.0	< 2.0	2	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	
			2025-04-23		< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
			2025-08-18		< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
4S/1W-28C015	Mowry 3	CF	2024-11-06		13	< 2.0	3.9	< 2.0	5.6	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0		
			2025-02-03		13	< 2.0	4.4	< 2.0	5.9	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0		
			2025-04-23		13	< 2.0	3.8	< 2.0	5.4	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0		
			2025-08-04		13	< 2.0	3.8	< 2.0	5.6	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0		
4S/1W-28C016	Mowry 4	N	2024-12-16		12	< 2.0	6.7	< 2.0	6.2	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0		
			2025-02-26		12	< 2.0	6.5	< 2.0	6.4	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0		
			2025-04-28		13	2.3	6.6	< 2.0	6.5	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0		
			2025-07-28		12	< 2.0	5.7	< 2.0	5.6	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0		
4S/1W-28C018	Mowry 6	CF	2024-11-13		11	< 2.0	3.5	< 2.0	5.8	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0		
			2025-01-29		10	< 2.0	4.3	< 2.0	6.2	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0			
			2025-04-14		8.4	< 2.0	3.1	< 2.0	5.6	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0			
			2025-07-28		11	< 2.0	3.5	< 2.0	5.3	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0			
4S/1W-28C019	Mowry 7	N	2024-11-13		13	3	7.7	< 2.0	7.4	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0		
			2025-02-26		11	2.2	6.4	< 2.0	6.2	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0			
			2025-04-28		13	3	7.6	< 2.0	7	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0				
			2025-07-28		13	3	6.7	< 2.0	6.3	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0				
4S/1W-28C020	Mowry 8	N	2024-11-06		12	2	6.3	< 2.0	6.1	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0		
			2025-02-12		11	< 2.0	6.8	< 2.0	6.3	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0				
			2025-04-14		12	2.5	6.8	< 2.0	6.6	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0					
			2025-08-18		12	2.2	6.3	< 2.0	6.4	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0					
4S/1W-28C021	Mowry 9	CF	2024-11-13		11	< 2.0	3.6	< 2.0	6	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0			
			2025-02-26		12	< 2.0	3.8	< 2.0	5.9	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0					
			2025-04-28		11	< 2.0	3.6	< 2.0	5.9	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0						
			2025-08-18		10	< 2.0	4	< 2.0	6.2	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0						
4S/1W-21P006	PT-1	AHF	2024-11-18		8.5	4	7	< 2.0	6.6	< 2.0	< 2.0	< 2.0	3.4	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0			
			2025-01-06		8.5	4.3	7.6	< 2.0	6.1	< 2.0	< 2.0	< 2.0	3.5	< 2.0	< 2.0	< 2.0					
			2025-05-28		9.8	4.6	7.4	2.1	7.2	< 2.0	< 2.0	< 2.0	4.5	< 2.0	< 2.0	< 2.0					
			2025-07-21		12	5.1	6.7	2.1	7.3	< 2.0	< 2.0	< 2.0	4.7	< 2.0	< 2.0	< 2.0					
4S/1W-21P007	PT-2	AHF	2024-11-18		9.8	3.4	6.7	< 2.0	6.5	< 2.0	< 2.0	< 2.0	2.6	< 2.0	< 2.0	< 2.0	< 2.0				
			2025-01-29		8.1	3.9	7.2	< 2.0	6.8	< 2.0	< 2.0	< 2.0	3.4	< 2.0	< 2.0	< 2.0					
			2025-04-14		9.5	4.4	6.6	< 2.0	7	< 2.0	< 2.0	< 2.0	3.5	< 2.0	< 2.0	< 2.0					
			2025-08-11		12	4.6	6.6	< 2.0	6.2	< 2.0	< 2.0	< 2.0	4.1	< 2.0	< 2.0	< 2.0					
4S/1W-21P008	PT-3	AHF	2024-11-18		9.8	2	7.1	< 2.0	6.3	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0				
			2025-02-05		8.6	3.2	7.4	< 2.0	6.3	< 2.0	< 2.0	< 2.0	2.2	< 2.0	< 2.0	< 2.0					
			2025-05-05		9.6	3.2	7.1	< 2.0	6.3	< 2.0	< 2.0	< 2.0	2.4	< 2.0	< 2.0	< 2.0					
			2025-07-21		11	3.8	6.6	< 2.0	5.2	< 2.0	< 2.0	< 2.0	3.5	< 2.0	< 2.0	< 2.0					
4S/1W-21P009	PT-4	AHF	2024-11-18		8.1	3	7.2	< 2.0	5.9	< 2.0	< 2.0	< 2.0	2.2	< 2.0	< 2.0	< 2.0	< 2.0				
			2025-01-22		8	3.6	7.1	< 2.0	5.8	< 2.0	< 2.0	< 2.0	3	< 2.0	< 2.0	< 2.0					
			2025-04-23		7.8	3.6	6.4	< 2.0	5.9	< 2.0	< 2.0	< 2.0	2.9	< 2.0	< 2.0	< 2.0					
			2025-08-11		9	4.3	7	< 2.0	6.1	< 2.0	< 2.0	< 2.0	3.7	< 2.0	< 2.0	< 2.0					

WY24/25 PFAS Analytical Data

Well Number	Alternate Well ID	Aquifer	Sample Date	Notes	6:2FTS	8:2FTS	NFDHA	PFBA	PFEESA	PFHp5	PFMBA	PFMPA	PFPeA	PFPeS	Hazard Index*
MCL															1
4S/1W-28C001	Mowry 1	N	2024-11-06		< 2.0	< 2.0	< 2.0	3.3	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	0.7
			2025-02-03		< 2.0	< 2.0	< 2.0	4.2	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	0.7
			2025-04-23		< 2.0	< 2.0	< 2.0	4.1	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	0.7
			2025-08-04		< 2.0	< 2.0	< 2.0	3.9	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	0.8
4S/1W-28C014	Mowry 2	D	2024-11-13		< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	0.2
			2025-02-12		< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	0.2
			2025-04-23		< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	0.2
			2025-08-18		< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	0.2
4S/1W-28C015	Mowry 3	CF	2024-11-06		< 2.0	< 2.0	< 2.0	2	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	0.6
			2025-02-03		< 2.0	< 2.0	< 2.0	2.3	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	0.6
			2025-04-23		< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	0.5
			2025-08-04		< 2.0	< 2.0	< 2.0	2	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	0.6
4S/1W-28C016	Mowry 4	N	2024-12-16		< 2.0	< 2.0	< 2.0	4.2	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	0.6
			2025-02-26		< 2.0	< 2.0	< 2.0	4.7	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	0.7
			2025-04-28		< 2.0	< 2.0	< 2.0	4.7	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	0.8
			2025-07-28		< 2.0	< 2.0	< 2.0	3.3	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	0.6
4S/1W-28C018	Mowry 6	CF	2024-11-13		< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	0.6
			2025-01-29		< 2.0	< 2.0	< 2.0	2.1	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	0.6
			2025-04-14		< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	0.6
			2025-07-28		< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	0.5
4S/1W-28C019	Mowry 7	N	2024-11-13		< 2.0	< 2.0	< 2.0	4.1	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	0.8
			2025-02-26		< 2.0	< 2.0	< 2.0	5.2	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	0.7
			2025-04-28		< 2.0	< 2.0	< 2.0	5.4	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	0.8
			2025-07-28		< 2.0	< 2.0	< 2.0	4.4	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	0.7
4S/1W-28C020	Mowry 8	N	2024-11-06		< 2.0	< 2.0	< 2.0	3.2	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	0.7
			2025-02-12		< 2.0	< 2.0	< 2.0	3.5	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	0.7
			2025-04-14		< 2.0	< 2.0	< 2.0	4.4	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	0.8
			2025-08-18		< 2.0	< 2.0	< 2.0	3.6	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	0.7
4S/1W-28C021	Mowry 9	CF	2024-11-13		< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	0.6
			2025-02-26		< 2.0	< 2.0	< 2.0	2	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	0.6
			2025-04-28		< 2.0	< 2.0	< 2.0	2	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	0.6
			2025-08-18		< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	0.6
4S/1W-21P006	PT-1	AHF	2024-11-18		< 2.0	< 2.0	< 2.0	6.3	< 2.0	< 2.0	< 2.0	< 2.0	3.7	< 2.0	0.7
			2025-01-06		< 2.0	< 2.0	< 2.0	6.4	< 2.0	< 2.0	< 2.0	< 2.0	4.2	< 2.0	0.7
			2025-05-28		< 2.0	< 2.0	< 2.0	5.3	< 2.0	< 2.0	< 2.0	< 2.0	5.1	< 2.0	0.8
			2025-07-21		< 2.0	< 2.0	< 2.0	5.4	< 2.0	< 2.0	< 2.0	< 2.0	5.2	< 2.0	0.8
4S/1W-21P007	PT-2	AHF	2024-11-18		< 2.0	< 2.0	< 2.0	5.2	< 2.0	< 2.0	< 2.0	< 2.0	2.9	< 2.0	0.7
			2025-01-29		< 2.0	< 2.0	< 2.0	5.9	< 2.0	< 2.0	< 2.0	< 2.0	3.5	< 2.0	0.8
			2025-04-14		< 2.0	< 2.0	< 2.0	5.6	< 2.0	< 2.0	< 2.0	< 2.0	3.9	< 2.0	0.8
			2025-08-11		< 2.0	< 2.0	< 2.0	5.2	< 2.0	< 2.0	< 2.0	< 2.0	4.5	< 2.0	0.7
4S/1W-21P008	PT-3	AHF	2024-11-18		< 2.0	< 2.0	< 2.0	5	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	0.7
			2025-02-05		< 2.0	< 2.0	< 2.0	5.4	< 2.0	< 2.0	< 2.0	< 2.0	2.5	< 2.0	0.7
			2025-05-05		< 2.0	< 2.0	< 2.0	7.1	< 2.0	< 2.0	< 2.0	< 2.0	2.8	< 2.0	0.7
			2025-07-21		< 2.0	< 2.0	< 2.0	6.2	< 2.0	< 2.0	< 2.0	< 2.0	3.7	< 2.0	0.7
4S/1W-21P009	PT-4	AHF	2024-11-18		< 2.0	< 2.0	< 2.0	5.8	< 2.0	< 2.0	< 2.0	< 2.0	2.4	< 2.0	0.7
			2025-01-22		< 2.0	< 2.0	< 2.0	6	< 2.0	< 2.0	< 2.0	< 2.0	3.2	< 2.0	0.7
			2025-04-23		< 2.0	< 2.0	< 2.0	5.5	< 2.0	< 2.0	< 2.0	< 2.0	3.2	< 2.0	0.7
			2025-08-11		< 2.0	< 2.0	< 2.0	5.7	< 2.0	< 2.0	< 2.0	< 2.0	4.1	< 2.0	0.7

WY24/25 PFAS Analytical Data

Well Number	Alternate Well ID	Aquifer	Sample Date	Notes	PFOS	PFOA	PFBS	PFHpA	PFHxS	PFNA	PFDA	PFDoA	PFHxA	PFUnA	HFPO- DA	9CI- PF3ONS	11CI- PF3OUdS	ADONA	4:2FTS	
MCL					4	4			10	10					10					
4S/1W-21P010	PT-5	AHF	2024-11-20		10	2.5	6.8	< 2.0	6	< 2.0	< 2.0	< 2.0	2	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	
			2025-01-06		9.9	3.1	6.9	< 2.0	5.5	< 2.0	< 2.0	< 2.0	2.7	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
4S/1W-21P011	PT-6	AHF	2024-11-20		10	2.2	6.6	< 2.0	5.7	< 2.0	< 2.0	< 2.0	2.4	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	
			2025-02-05		9.4	2	6.4	< 2.0	5.4	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
4S/1W-21P012	PT-7	AHF	2024-11-25		9.1	3.1	6.8	< 2.0	5.2	< 2.0	< 2.0	< 2.0	3.3	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	
			2025-01-22		10	3.9	5.8	< 2.0	5	< 2.0	< 2.0	< 2.0	3	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	
			2025-05-05		9.7	3.2	5.5	< 2.0	4.6	< 2.0	< 2.0	< 2.0	2.3	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
			2025-07-21		9.5	< 2.0	5.3	< 2.0	4.3	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
4S/1W-21P013	PT-8	AHF	2024-11-25		9.5	< 2.0	5.6	< 2.0	4.8	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	
			2025-01-21		9.9	< 2.0	6.3	< 2.0	5.6	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	
			2025-04-14		10	< 2.0	6.2	< 2.0	5.9	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	
			2025-07-21		10	< 2.0	5.4	< 2.0	4.9	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
5S/1W-06H004	Bellflower	C	2024-11-18		6.5	< 2.0	1.7 J	< 2.0	3.6	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	
			2025-01-15		6.2	< 2.0	< 2.0	< 2.0	3.5	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	
			2025-04-07		6	< 2.0	< 2.0	< 2.0	3.3	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	
			2025-07-23		6.8	< 2.0	< 2.0	< 2.0	3.4	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
4S/1W-31N001	Cedar 1	C	2024-11-13		9.2	< 2.0	2	< 2.0	3.7	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	
			2025-01-15		9.1	< 2.0	2.1	< 2.0	3.9	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	
			2025-04-07		8.4	< 2.0	< 2.0	< 2.0	3.7	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	
			2025-07-23		9.6	< 2.0	2	< 2.0	3.6	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	
4S/1W-31N003	Cedar 2	N	2024-11-13		8.8	3.6	7.7	< 2.0	12	< 2.0	< 2.0	< 2.0	4.7	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	
			2025-01-15		9.4	3.8	7.8	< 2.0	13	< 2.0	< 2.0	< 2.0	5.2	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	
			2025-04-07		8.2	3.5	7.6	< 2.0	12	< 2.0	< 2.0	< 2.0	4.7	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	
			2025-07-23		8.8	3.6	7.3	< 2.0	11	< 2.0	< 2.0	< 2.0	4.5	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	
4S/2W-36A006	Darvon 1	N	2024-12-02		5.5	4.4	7.2	< 2.0	7.4	< 2.0	< 2.0	< 2.0	2	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	
			2025-01-15		5.8	4.6	7.4	< 2.0	7.9	< 2.0	< 2.0	< 2.0	2.1	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	
			2025-04-07		5.1	4.4	7	< 2.0	7.4	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	
			2025-07-23		5.9	4.6	7.3	< 2.0	7.6	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	
4S/2W-36A007	Darvon 2	CF	2024-12-02		8.5	< 2.0	2.5	< 2.0	3.4	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	
			2025-01-15		8.2	< 2.0	2.4	< 2.0	3.7	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	
			2025-04-07		8	< 2.0	2.4	< 2.0	3.2	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	
			2025-07-23		9	< 2.0	2.3	< 2.0	3.3	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	
5S/1W-05C001	Farwell	C	2024-11-20		3.8	< 2.0	3.4	< 2.0	4.7	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	
			2025-01-15		3.8	2.1	3.6	< 2.0	4.8	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	
			2025-04-07		3.3	2	3.4	< 2.0	4.2	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	
			2025-07-23		3.8	2.1	3.6	< 2.0	4.5	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	
4S/1W-20A003	Nursery	CF	2025-09-24		12	4.6	6.9	< 2.0	6.6	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	
			2025-09-24	Duplicate	11	4.3	6.8	< 2.0	6.4	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	
4S/2W-12C001	Whipple	D	2025-09-10		< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0		
4S/2W-14N001	Lowry	N	2025-09-11		6.1	< 2.0	3.8	< 2.0	5.6	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0		
4S/1W-17M006	Kraftite - D	D	2025-09-05		< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	
			2025-09-05	Duplicate	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	
4S/1W-27D008	AHF Indicator	AHF	2025-08-28		2.6	< 2.0	4.4	< 2.0	6.1	< 2.0	< 2.0	< 2.0	3.3	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	
			2025-08-28	Duplicate	2.6	< 2.0	4.1	< 2.0	6.1	< 2.0	< 2.0	< 2.0	3	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	
4S/1W-28M005	Hastings - D	D	2025-09-04		< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0		
4S/1W-29A006	BHF Indicator	N	2025-08-28		9.7	2.2	6.2	< 2.0	5.7	< 2.0	< 2.0	< 2.0	5	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0		
4S/1W-32N001	Blacow Rd - C	C	2025-08-27		8	3.5	3.8	< 2.0	5.4	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0		
4S/1W-32N002	Blacow Rd - F	F	2025-08-27		< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	
			2025-08-27	Duplicate	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	
4S/1W-32N003	3-MN	N	2025-08-26		5.1	4.1	6.5	< 2.0	5.7	< 2.0	< 2.0	< 2.0	3.7	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0		

WY24/25 PFAS Analytical Data

Well Number	Alternate Well ID	Aquifer	Sample Date	Notes	6:2FTS	8:2FTS	NFDHA	PFBA	PFEESA	PFHp5	PFMBA	PFMPA	PFPeA	PFPeS	Hazard Index*
MCL															1
4S/1W-21P010	PT-5	AHF	2024-11-20		< 2.0	< 2.0	< 2.0	8.8	< 2.0	< 2.0	< 2.0	< 2.0	2.1	< 2.0	0.7
			2025-01-06		< 2.0	< 2.0	< 2.0	6.4	< 2.0	< 2.0	< 2.0	< 2.0	2.6	< 2.0	0.7
4S/1W-21P011	PT-6	AHF	2024-11-20		< 2.0	< 2.0	< 2.0	6.9	< 2.0	< 2.0	< 2.0	< 2.0	2.8	< 2.0	0.7
			2025-02-05		< 2.0	< 2.0	< 2.0	5.2	< 2.0	< 2.0	< 2.0	< 2.0	2	< 2.0	0.7
4S/1W-21P012	PT-7	AHF	2024-11-25		< 2.0	< 2.0	< 2.0	7.7	< 2.0	< 2.0	< 2.0	< 2.0	3.7	< 2.0	0.6
			2025-01-22		< 2.0	< 2.0	< 2.0	7.4	< 2.0	< 2.0	< 2.0	< 2.0	3.1	< 2.0	0.7
			2025-05-05		< 2.0	< 2.0	< 2.0	5.9	< 2.0	< 2.0	< 2.0	< 2.0	2.9	< 2.0	0.6
			2025-07-21		< 2.0	< 2.0	< 2.0	3.2	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	0.6
4S/1W-21P013	PT-8	AHF	2024-11-25		< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	0.6
			2025-01-21		< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	0.6
			2025-04-14		< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	0.7
			2025-07-21		< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	0.6
5S/1W-06H004	Bellflower	C	2024-11-18		< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	0.4
			2025-01-15		< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	0.4
			2025-04-07		< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	0.3
			2025-07-23		< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	0.3
4S/1W-31N001	Cedar 1	C	2024-11-13		< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	0.4
			2025-01-15		< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	0.4
			2025-04-07		< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	0.4
			2025-07-23		< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	0.4
4S/1W-31N003	Cedar 2	N	2024-11-13		< 2.0	< 2.0	< 2.0	5.9	< 2.0	< 2.0	< 2.0	< 2.0	6.5	2.7	1.2
			2025-01-15		< 2.0	< 2.0	< 2.0	6.1	< 2.0	< 2.0	< 2.0	< 2.0	6.6	2.3	1.3
			2025-04-07		< 2.0	< 2.0	< 2.0	5.9	< 2.0	< 2.0	< 2.0	< 2.0	6.2	2.6	1.2
			2025-07-23		< 2.0	< 2.0	< 2.0	5.7	< 2.0	< 2.0	< 2.0	< 2.0	5.6	2.2	1.1
4S/2W-36A006	Darvon 1	N	2024-12-02		< 2.0	< 2.0	< 2.0	6.6	< 2.0	< 2.0	< 2.0	< 2.0	2.2	< 2.0	0.7
			2025-01-15		< 2.0	< 2.0	< 2.0	6.8	< 2.0	< 2.0	< 2.0	< 2.0	2.5	< 2.0	0.8
			2025-04-07		< 2.0	< 2.0	< 2.0	6.2	< 2.0	< 2.0	< 2.0	< 2.0	2.4	< 2.0	0.7
			2025-07-23		< 2.0	< 2.0	< 2.0	6.3	< 2.0	< 2.0	< 2.0	< 2.0	2.3	< 2.0	0.8
4S/2W-36A007	Darvon 2	CF	2024-12-02		< 2.0	< 2.0	< 2.0	2.2	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	0.4
			2025-01-15		< 2.0	< 2.0	< 2.0	2.2	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	0.4
			2025-04-07		< 2.0	< 2.0	< 2.0	2	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	0.4
			2025-07-23		< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	0.4
5S/1W-05C001	Farwell	C	2024-11-20		< 2.0	< 2.0	< 2.0	2.7	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	0.5
			2025-01-15		< 2.0	< 2.0	< 2.0	2.9	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	0.5
			2025-04-07		< 2.0	< 2.0	< 2.0	2.7	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	0.4
			2025-07-23		< 2.0	< 2.0	< 2.0	2.7	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	0.5
4S/1W-20A003	Nursery	CF	2025-09-24		< 2.0	< 2.0	< 2.0	6.2	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	0.8
			2025-09-24	Duplicate	< 2.0	< 2.0	< 2.0	6	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	0.8
4S/2W-12C001	Whipple	D	2025-09-10		< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	0.0
4S/2W-14N001	Lowry	N	2025-09-11		< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	0.6
4S/1W-17M006	Kraftile - D	D	2025-09-05		< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	0.0
			2025-09-05	Duplicate	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	0.0
4S/1W-27D008	AHF Indicator	AHF	2025-08-28		< 2.0	< 2.0	< 2.0	3.6	< 2.0	< 2.0	< 2.0	< 2.0	4.3	< 2.0	0.6
			2025-08-28	Duplicate	< 2.0	< 2.0	< 2.0	3.4	< 2.0	< 2.0	< 2.0	< 2.0	3.8	< 2.0	0.6
4S/1W-28M005	Hastings - D	D	2025-09-04		< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	0.1
4S/1W-29A006	BHF Indicator	N	2025-08-28		2.4	< 2.0	< 2.0	5.7	< 2.0	< 2.0	< 2.0	< 2.0	11	< 2.0	0.7
4S/1W-32N001	Blacow Rd - C	C	2025-08-27		< 2.0	< 2.0	< 2.0	3.7	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	0.5
4S/1W-32N002	Blacow Rd - F	F	2025-08-27		< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	0.0
			2025-08-27	Duplicate	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	0.0
4S/1W-32N003	3-MN	N	2025-08-26		< 2.0	< 2.0	< 2.0	4.5	< 2.0	< 2.0	< 2.0	< 2.0	3.5	< 2.0	0.6

WY24/25 PFAS Analytical Data

Well Number	Alternate Well ID	Aquifer	Sample Date	Notes	PFOS	PFOA	PFBS	PFHpA	PFHxS	PFNA	PFDA	PFDoA	PFHxA	PFUnA	HFPO- DA	9CI- PF3ONS	11CI- PF3OUdS	ADONA	4:2FTS
MCL					4	4			10	10					10				
4S/2W-12K010	Pacific & Lewis - C	C	2025-09-05		< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
4S/2W-12K011	Pacific & Lewis - N	N	2025-09-05		10	3.4	6.7	< 2.0	5	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
4S/2W-15L006	Contempo - C	C	2025-08-27		< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
4S/2W-15L007	Contempo - N	N	2025-08-27		2.6	< 2.0	2.1	< 2.0	4	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
4S/2W-26K005	Clstr #2 - CF	C	2025-09-09		< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
			2025-09-09	Duplicate	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
4S/2W-26K006	Clstr #2 - N	N	2025-09-09		7.4	2.6	6	< 2.0	7.3	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
4S/2W-28A001	E-37	N	2025-08-27		< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
5S/1W-05H005	Farwell - C	C	2025-08-28		< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
5S/1W-05H006	Farwell - N	N	2025-08-28		< 2.0	< 2.0	4.9	4.3	13	< 2.0	< 2.0	< 2.0	12	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
5S1W-06H009	2-SF	F	2025-08-26		< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
5S1W-06H010	2-TF	F	2025-08-26		< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
			2025-08-26		< 2.0	< 2.0	2	< 2.0	3.5	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
5S1W-06H011	2-MN	N	2025-08-26		< 2.0	< 2.0	2	< 2.0	3.6	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
			2025-08-26	Duplicate	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
5S1W-06H012	2-MF	F	2025-08-26		< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
5S/1W-07B036	Silliman MW	C	2025-08-28		< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
5S/1W-07J001	E-77	N	2025-08-27		< 2.0	< 2.0	2.1	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
5S/1W-16M006	Automall - C	C	2025-09-05		< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
5S/1W-17J006	E-113	N	2025-09-09		< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
5S2W-01B009	1-MF	F	2025-08-25		< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
			2025-08-25	Duplicate	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
5S2W-01B010	1-MC	C	2025-08-25		< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
5S2W-01B011	1-SF	F	2025-09-04		< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
5S2W-01B012	1-TF	F	2025-09-04		< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
5S/2W-01R001	E-68	N	2025-08-28		< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
5S/2W-01R014	NDF MW	C	2025-09-05		< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
5S/2W-02F003	Well W	C	2025-08-25		< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
5S/2W-02F004	Well X	N	2025-08-25		< 2.0	< 2.0	4.9	< 2.0	5.3	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Alameda Creek	ACWQMS	SW	2025-09-04		4.3	< 2.0	2.6	< 2.0	2.9	< 2.0	< 2.0	< 2.0	3.6	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Alameda Creek	Sunol	SW	2025-09-04		< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Arroyo de la Laguna		SW	2025-09-04		14	6	8.9	3.4	11	< 2.0	< 2.0	< 2.0	15	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
			2025-09-04	Duplicate	14	6.1	9.1	3.2	11	< 2.0	< 2.0	< 2.0	15	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0

WY24/25 PFAS Analytical Data

Well Number	Alternate Well ID	Aquifer	Sample Date	Notes	6:2FTS	8:2FTS	NFDHA	PFBA	PFEESA	PFHpS	PFMBA	PFMPA	PFPeA	PFPeS	Hazard Index*
MCL															1
4S/2W-12K010	Pacific & Lewis - C	C	2025-09-05		< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	0.0
4S/2W-12K011	Pacific & Lewis - N	N	2025-09-05		< 2.0	< 2.0	< 2.0	2.7	< 2.0	< 2.0	< 2.0	< 2.0	2	< 2.0	0.5
4S/2W-15L006	Contempo - C	C	2025-08-27		< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	0.0
4S/2W-15L007	Contempo - N	N	2025-08-27		< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	0.4
4S/2W-26K005	Clstr #2 - CF	C	2025-09-09		< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	0.0
			2025-09-09	Duplicate	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
4S/2W-26K006	Clstr #2 - N	N	2025-09-09		< 2.0	< 2.0	< 2.0	6.9	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	0.7
4S/2W-28A001	E-37	N	2025-08-27		< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	0.0
5S/1W-05H005	Farwell - C	C	2025-08-28		< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	0.0
5S/1W-05H006	Farwell - N	N	2025-08-28		< 2.0	< 2.0	< 2.0	7	< 2.0	< 2.0	< 2.0	< 2.0	16	4	1.3
5S1W-06H009	2-SF	F	2025-08-26		< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	0.0
5S1W-06H010	2-TF	F	2025-08-26		< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	0.0
			2025-08-26		< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	0.4
5S1W-06H011	2-MN	N	2025-08-26		< 2.0	< 2.0	< 2.0	2	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	0.4
			2025-08-26	Duplicate	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
5S1W-06H012	2-MF	F	2025-08-26		< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	0.0
5S/1W-07B036	Silliman MW	C	2025-08-28		< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	0.0
5S/1W-07J001	E-77	N	2025-08-27		< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	0.2
5S/1W-16M006	Automall - C	C	2025-09-05		< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	0.0
5S/1W-17J006	E-113	N	2025-09-09		< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	0.1
5S2W-01B009	1-MF	F	2025-08-25		< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	0.0
			2025-08-25	Duplicate	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
5S2W-01B010	1-MC	C	2025-08-25		< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	0.0
5S2W-01B011	1-SF	F	2025-09-04		< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	0.0
5S2W-01B012	1-TF	F	2025-09-04		< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	0.0
5S/2W-01R001	E-68	N	2025-08-28		< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	0.0
5S/2W-01R014	NDF MW	C	2025-09-05		< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	0.0
5S/2W-02F003	Well W	C	2025-08-25		< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	0.0
5S/2W-02F004	Well X	N	2025-08-25		< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	0.5
Alameda Creek	ACWQMS	SW	2025-09-04		< 2.0	< 2.0	< 2.0	2.4	< 2.0	< 2.0	< 2.0	< 2.0	2.4	< 2.0	0.3
Alameda Creek	Sunol	SW	2025-09-04		< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	0.0
Arroyo de la Laguna		SW	2025-09-04		< 2.0	< 2.0	< 2.0	7.3	< 2.0	< 2.0	< 2.0	< 2.0	10	< 2.0	1.2
			2025-09-04	Duplicate	< 2.0	< 2.0	< 2.0	7.5	< 2.0	< 2.0	< 2.0	< 2.0	10	< 2.0	1.2

SW = surface water
 PFOS=Perfluorooctanesulfonic acid
 PFOA=Perfluorooctanoic acid
 PFBS=Perfluorobutanesulfonic acid
 PFHpA=Perfluoroheptanoic acid
 PFHxS=Perfluorohexanesulfonic acid
 PFNA=Perfluorononanoic acid
 PFDA=Perfluorodecanoic acid
 PFDaA=Perfluorododecanoic acid
 PFHxA=Perfluorohexanoic acid
 PFUnA=Perfluoroundecanoic acid
 HFPO-DA=Hexafluoropropylene Oxide Dimer Acid
 PFBA=Perfluorobutanoic acid
 ADONA=4,8-Dioxa-3H-perfluorononanoic acid
 4:2FTS=1H,1H,2H,2H-Perfluorohexane sulfonic acid
 6:2FTS=1H,1H,2H,2H-Perfluorooctane sulfonic acid
 8:2FTS=1H,1H,2H,2H-Perfluorodecane sulfonic acid
 NFDHA=Nonafluoro-3,6-dioxaheptanoic acid
 9CI-PF3ONS=9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid
 11CI- PF3OUdS=11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid
 PFEESA=Perfluoro (2-ethoxyethane) sulfonic acid
 PFHpS=Perfluoroheptanesulfonic acid
 PFMBA=Perfluoro-4-methoxybutanoic acid
 PFMPA=Perfluoro-3-methoxypropanoic acid
 PFPeA=Perfluoropentanoic acid
 PFPeS=Perfluoropentanesulfonic acid

* Hazard Index for mixtures containing two or more of PFHxS, PFNA, HFPO-DA, and PFBS

APPENDIX E

SPRING 2025 GROUNDWATER MONITORING RECORDS

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Alameda County Water District
Groundwater Monitoring Program
Spring 2025

Well Number	Alternate Well ID	Aquifer	Owner	Date of Water Level	Reference Elevation* (feet)	Water Elevation* (feet)	Water Sample Date	Chloride (ppm)	TDS (ppm)	Remarks
3S/3W-25C020	WD2	D	Alameda County Water District	3/25/2025	8.84	0.46	3/27/2025	69	420	PWC
4S/1W-07C005		FD	MASONIC HOMES OF CALIFORNIA	3/26/2025	101.31	2.95		--	--	UTS Off
4S/1W-07K001		D	Masonic Homes of California	3/26/2025	67.4	7.63		--	--	PI
4S/1W-07N005		CF	City of Union City	3/26/2025	55.29	6.8		--	--	Call CoUC for sample
4S/1W-17M006	Well L	D	ALAMEDA COUNTY WATER DISTRICT	3/25/2025	49.9	4.05		--	--	PWC
4S/1W-17M007	Well M	C	ALAMEDA COUNTY WATER DISTRICT	3/25/2025	50	6.55		--	--	PWC
4S/1W-17M008	Well N	N	ALAMEDA COUNTY WATER DISTRICT	3/25/2025	49.62	19.14		--	--	PWC Changed well cap
4S/1W-18K005		F	City of Union City	3/26/2025	48.6		3/26/2025	67	380	NMP UTM Call CoUC for sample
4S/1W-18M010		C	Frank J & Catherine M Thrall	3/27/2025	39.92	5.88		--	--	UTS Call to open gate
4S/1W-18N004		C	Eleanor Kabrich	4/3/2025	41.6	3.54	4/3/2025	79	400	NMP UTM UTS NSP
4S/1W-19A003		F	Alameda County Flood Control	3/24/2025	54.37	-1.46		--	--	
4S/1W-19E002	PIEZ#4	N	ALAMEDA COUNTY WATER DISTRICT	3/25/2025	37.95	17.04		--	--	PWC
4S/1W-19J006		N	Alameda County Flood Control	3/24/2025	51.28	18.45		--	--	PWC
4S/1W-19L002	HUDSON/NICOLET	C	ALAMEDA COUNTY WATER DISTRICT	3/25/2025	40.39	5.14		--	--	OBS@160' PWC double checked measurement
4S/1W-19N002	Well H	D	ALAMEDA COUNTY WATER DISTRICT	3/24/2025	40.45	4	3/18/2025	295	830	PWC
4S/1W-19N003	WESTRIDGE PARK	C	CITY OF FREMONT	3/24/2025	39.81	3.91		--	--	PWC
4S/1W-19N004	Well I	F	ALAMEDA COUNTY WATER DISTRICT	3/24/2025	40.68	3.9	3/18/2025	209	670	PWC
4S/1W-19N005	Well J	C	ALAMEDA COUNTY WATER DISTRICT	3/24/2025	40.55	4.45	3/18/2025	70	390	PWC
4S/1W-19N014	Well K	N	ALAMEDA COUNTY WATER DISTRICT	3/24/2025	40.5	16.1	3/18/2025	68	400	PWC
4S/1W-20A003	Nursery Well	CF	ALAMEDA COUNTY WATER DISTRICT	3/26/2025	63.42	9.16		--	--	OFF
4S/1W-20G001	Montecito Well	CFD	Alameda County Water District	3/26/2025	60.72	16.2		--	--	UTS
4S/1W-20H003	DH-4	N	ALAMEDA COUNTY WATER DISTRICT	3/26/2025	67.52	29.45		--	--	PWC
4S/1W-20J004	UP-1A	N	ALAMEDA COUNTY WATER DISTRICT	3/24/2025	58.9	26.91		--	--	PWC
4S/1W-20J005	UP-1C	N	ALAMEDA COUNTY WATER DISTRICT	3/24/2025	59.14	19.59		--	--	PWC small lid, leftmost facing creek
4S/1W-20J006	UP-1B	N	ALAMEDA COUNTY WATER DISTRICT	3/24/2025	59.07	26.13		--	--	PWC smaller lid
4S/1W-20R003	UP-2A	N	ALAMEDA COUNTY WATER DISTRICT	3/24/2025	59.11	22.79		--	--	PWC
4S/1W-20R004	UP-2B	N	ALAMEDA COUNTY WATER DISTRICT	3/24/2025	59.2	30.45		--	--	PWC
4S/1W-20R005	UP-2C	N	ALAMEDA COUNTY WATER DISTRICT	3/24/2025	59.06	18.8		--	--	PWC Leftmost Well
4S/1W-21F005	KAISER #5	AHF	ALAMEDA COUNTY WATER DISTRICT	3/24/2025	69.7	48.07		--	--	
4S/1W-21H002	Vallejo St. @ End	AHF	Alameda County Water District	3/25/2025	75.08	49.99		--	--	PWC Dam Up
4S/1W-21J003	EB-1	AHF	Alameda County Water District	3/24/2025	77.3	47.19		--	--	PWC
4S/1W-21L003		AHF	ALAMEDA COUNTY WATER DISTRICT	3/27/2025	66.57	45.74		--	--	
4S/1W-21L005	DH-6	AHF	ALAMEDA COUNTY WATER DISTRICT	3/24/2025	67.46	46.21		--	--	PWC Well cap changed
4S/1W-21L006	DH-5	AHF	ALAMEDA COUNTY WATER DISTRICT	3/24/2025	67.81	46.51		--	--	
4S/1W-21L007	KAISER #1	AHF	ALAMEDA COUNTY WATER DISTRICT	3/24/2025	70.62	46.85		--	--	
4S/1W-21L008	KAISER #4	AHF	ALAMEDA COUNTY WATER DISTRICT	3/24/2025	66.94	45.42		--	--	PWC
4S/1W-21P004		AHF	CITY OF FREMONT	3/24/2025	65.29	46.75		--	--	
4S/1W-21P006	P.T. #1	AHF	ALAMEDA COUNTY WATER DISTRICT	3/27/2025	66.37	43.47		--	--	
4S/1W-21P007	P.T. #2	AHF	ALAMEDA COUNTY WATER DISTRICT	3/27/2025	66.77	43.02		--	--	
4S/1W-21P008	P.T. #3	AHF	ALAMEDA COUNTY WATER DISTRICT	3/27/2025	66.54		3/26/2025	73	530	
4S/1W-21P009	P.T. #4	AHF	ALAMEDA COUNTY WATER DISTRICT	3/27/2025	66.44	43.15		--	--	
4S/1W-21P010	P.T. #5	AHF	ALAMEDA COUNTY WATER DISTRICT	3/27/2025	67.28	43.41		--	--	
4S/1W-21P011	P.T. #6	AHF	ALAMEDA COUNTY WATER DISTRICT	3/27/2025	67.69	43.68		--	--	
4S/1W-21P012	P.T. #7	AHF	ALAMEDA COUNTY WATER DISTRICT	3/27/2025	68.36	44.37	3/3/2025	74	460	
4S/1W-21P013	P.T. #8	AHF	ALAMEDA COUNTY WATER DISTRICT	3/27/2025	68.86	44.24		--	--	
4S/1W-21R007	MW-12(offsite)	AHF	Alameda County Water District	3/24/2025	72.21	47.3		--	--	PWC
4S/1W-26L006		AHF	CITY OF FREMONT	3/24/2025	65.88	49.34	3/25/2025	90	590	
4S/1W-26Q011		AHF	ERNIE SILVA	3/26/2025	96.44	78.41		--	--	used tape to measure
4S/1W-27A002		AHF	Fremont Community Church	3/26/2025	71.09	47.66	3/26/2025	116	810	NO3; used tape to measure
4S/1W-27D008	AHF Indicator	AHF	ALAMEDA COUNTY WATER DISTRICT	3/25/2025	66.59	47.22		--	--	PWC
4S/1W-27E001		AHF	CHURCH OF JESUS CHRIST	3/24/2025	62.86	46.72		--	--	PI UTS

Alameda County Water District
Groundwater Monitoring Program
Spring 2025

Well Number	Alternate Well ID	Aquifer	Owner	Date of Water Level	Reference Elevation* (feet)	Water Elevation* (feet)	Water Sample Date	Chloride (ppm)	TDS (ppm)	Remarks
4S/1W-27G002		AHF	CITY OF FREMONT	3/25/2025	62.73	46.54	3/25/2025	72	620	UTS COF
4S/1W-27P001		AHF	CITY OF FREMONT	3/25/2025	54.04	46.88		--	--	
4S/1W-27P002		AHF	CITY OF FREMONT	3/25/2025	52.65	47.34	3/25/2025	35	240	
4S/1W-28C001	Mowry #1	N	ALAMEDA COUNTY WATER DISTRICT	3/27/2025	64.81		3/24/2025	73	480	RUN
4S/1W-28C014	Mowry #2	D	ALAMEDA COUNTY WATER DISTRICT	3/27/2025	63.64	2.24	3/31/2025	115	480	
4S/1W-28C015	Mowry #3	CF	ALAMEDA COUNTY WATER DISTRICT	3/27/2025	63.87	3.1		--	--	
4S/1W-28C016	Mowry #4	N	ALAMEDA COUNTY WATER DISTRICT	3/27/2025	66.08	13.32		--	--	
4S/1W-28C018	Mowry #6	CF	ALAMEDA COUNTY WATER DISTRICT	3/27/2025	64.8	2.85	3/10/2025	87	490	
4S/1W-28C019	Mowry #7	N	ALAMEDA COUNTY WATER DISTRICT	3/27/2025	63.82	13.26		--	--	
4S/1W-28C020	Mowry #8	N	ALAMEDA COUNTY WATER DISTRICT	3/27/2025	64.13	13.41	3/24/2025	73	470	
4S/1W-28C021	Mowry #9	CF	ALAMEDA COUNTY WATER DISTRICT	3/27/2025	65.02	2.66		--	--	
4S/1W-28D001	Well A	D	ALAMEDA COUNTY WATER DISTRICT	3/24/2025	63.03	3.65		--	--	PWC
4S/1W-28D008	Well B	F	ALAMEDA COUNTY WATER DISTRICT	3/24/2025	62.77	3.47		--	--	PWC
4S/1W-28D011	Well C	C	ALAMEDA COUNTY WATER DISTRICT	3/24/2025	62.9	4.21		--	--	PWC Well cap changed
4S/1W-28D012	Well D	N	ALAMEDA COUNTY WATER DISTRICT	3/24/2025	62.86	14.76		--	--	PWC
4S/1W-28F018	BART Way - N	N	Alameda County Water District	3/24/2025	58.71	15.18	3/20/2025	46	440	PWC
4S/1W-28F024	BART WAY-F	F	ALAMEDA COUNTY WATER DISTRICT	3/24/2025	59.15	3.85	3/20/2025	99	660	PWC
4S/1W-28G005		C	Washington Township Healthcare Dist	3/25/2025	57.79	4	3/25/2025	85	590	New contact
4S/1W-28M002	HASTINGS - N	N	Alameda County Water District	3/24/2025	53.81	15.1	3/18/2025	76	550	PWC
4S/1W-28M005	HASTINGS - D	D	Alameda County Water District	3/24/2025	54.12	3.72	3/18/2025	121	490	PWC
4S/1W-28M006		C	Mercedes Williams	3/26/2025	57.09	2.14		--	--	PI UTS Open fence
4S/1W-28M009	HASTINGS - F	F	Alameda County Water District	3/24/2025	54.21	3.61	3/18/2025	505	1,500	PWC
4S/1W-28M010	HASTINGS - C	C	Alameda County Water District	3/24/2025	54.2	3.89	3/18/2025	86	550	PWC
4S/1W-28P004	BEACON	C	ALAMEDA COUNTY WATER DISTRICT	3/25/2025	53.56	3.8	3/18/2025	80	540	PWC
4S/1W-28P006	Well E	D	ALAMEDA COUNTY WATER DISTRICT	3/25/2025	53.66	3.14	3/18/2025	189	670	PWC
4S/1W-28P007	Well F	F	ALAMEDA COUNTY WATER DISTRICT	3/25/2025	53.5	3.05	3/18/2025	470	1,100	PWC
4S/1W-28P008	Well G	N	ALAMEDA COUNTY WATER DISTRICT	3/25/2025	53.53	14.82	3/18/2025	85	640	PWC
4S/1W-28R003	Fmt. Library F	F	Alameda County Water District	3/24/2025	59.7	3.56	3/18/2025	139	870	PWC Paint
4S/1W-29A006	BHF Indicator	N	ALAMEDA COUNTY WATER DISTRICT	3/25/2025	61.23	18.31		--	--	PWC
4S/1W-29F002		N	Robert D & Virginia W. Grate	3/26/2025	51.93	16.65		--	--	PWC
4S/1W-29H002	Centerville Par	F	ALAMEDA COUNTY WATER DISTRICT	3/24/2025	52.44	3.59	4/1/2025	94	460	PWC
4S/1W-29J003		C	CITY OF FREMONT	3/24/2025	55.28			--	--	UTM UTS
4S/1W-29J008		N	Eugene Dias	3/27/2025	58.48			--	--	PI UTM UTS No access
4S/1W-29L012	Fremont Mattos	D	ALAMEDA COUNTY WATER DISTRICT	3/24/2025	50.62	2.43		--	--	PWC Need 2" pipe
4S/1W-30A002	Well O	FD	ALAMEDA COUNTY WATER DISTRICT	3/25/2025	51.81	3.51		--	--	PWC
4S/1W-30A004	Well Q	C	ALAMEDA COUNTY WATER DISTRICT	3/25/2025	52.01	4.56		--	--	PWC
4S/1W-30A005	Well R	N	ALAMEDA COUNTY WATER DISTRICT	3/25/2025	52.2	16.41		--	--	PWC
4S/1W-30E003	CORONADO 2	D	ALAMEDA COUNTY WATER DISTRICT	3/25/2025	42.12	3.03		--	--	PWC transducer
4S/1W-30E004	CORONADO 1	N	ALAMEDA COUNTY WATER DISTRICT	3/25/2025	42.17	14.77		--	--	PWC
4S/1W-30J002	Central Apts.	N	Jeffery H. Lee	3/25/2025	46.74	15.49		--	--	PWC
4S/1W-30L006		D	Joseph G. Dutra	3/26/2025	42.23	3.88		--	--	DA UTS call first for permission
4S/1W-30L008		N	Joseph G. Dutra	3/26/2025	41.9	14.91		--	--	DA UTS call first for permission
4S/1W-30R002		C	Frank G. & Alice C. Garcia	3/26/2025	46.14	0.64		--	--	PI leave card w/water levels for owner
4S/1W-30R004		N	Frank G. & Alice C. Garcia	3/26/2025	45.19	14.69		--	--	leave card w/water level for owner
4S/1W-31B003	Willowood #1	D	ALAMEDA COUNTY WATER DISTRICT	3/25/2025	43.54	3.48		--	--	PWC
4S/1W-31B011	Willowood # 2	CF	ALAMEDA COUNTY WATER DISTRICT	3/25/2025	44.47	1.7		--	--	Measured from sole plate
4S/1W-31C003	Towers @ Hansen	N	ALAMEDA COUNTY WATER DISTRICT	3/25/2025	36.56	13.84	4/1/2025	90	530	PWC
4S/1W-31J001		D	GLENMOOR GARDENS HOMEOWNERS ASSOCIA	3/26/2025	38.94	2.19		--	--	Sampled from tank
4S/1W-31L008	off Blacow@Line F-1	N	Alameda County Water District	3/24/2025	36.76	12.64		--	--	PWC
4S/1W-31L011		N	Alameda County Water District	3/25/2025	34.47	12.27		--	--	PWC
4S/1W-31N001	Cedar #1	C	ALAMEDA COUNTY WATER DISTRICT	3/27/2025	35.37		3/19/2025	398	1,000	RUN UTM

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Well Number	Alternate Well ID	Aquifer	Owner	Date of Water Level	Reference Elevation* (feet)	Water Elevation* (feet)	Water Sample Date	Chloride (ppm)	TDS (ppm)	Remarks
4S/1W-31N003	Cedar #2	N	ALAMEDA COUNTY WATER DISTRICT	3/27/2025	35.2		3/19/2025	148	760	RUN
4S/1W-32E011	Meyer Park - C	C	Alameda County Water District	3/25/2025	43.68	1.33		--	--	PWC
4S/1W-32E012	Meyer Park - F	F	Alameda County Water District	3/25/2025	43.89	3.27		--	--	PWC
4S/1W-32K011	Serra Place-F	F	Alameda County Water District	3/25/2025	43.39	3.11		--	--	PWC
4S/1W-32K014	Serra-C	C	Alameda County Water District	3/25/2025	43.28	1.02		--	--	PWC
4S/1W-32M010	Eggers near Patti's	N	ALAMEDA COUNTY WATER DISTRICT	3/25/2025	38.67	13.96		--	--	M PWC
4S/1W-32N001	Blacow - C	C	Alameda County Water District	3/25/2025	37.65	-0.17	3/21/2025	124	580	PWC
4S/1W-32N002	Blacow - F	F	Alameda County Water District	3/25/2025	37.59	2.84	3/21/2025	862	1,800	PWC
4S/1W-32N003	3-MN	N	Alameda County Water District	3/25/2025	37.11	13.88	3/21/2025	123	670	PWC
4S/1W-32N004	3-SF	F	Alameda County Water District	3/25/2025	38.05	2.56	3/21/2025	380	1,200	PWC
4S/1W-32N005	3-TF	F	Alameda County Water District	3/25/2025	37.17	2.62		--	--	
4S/1W-33E001	Walnut Ave.Well	CF	City of Fremont	3/24/2025	49.62	2.8		--	--	
4S/1W-33N002	Knoll Park	C	ALAMEDA COUNTY WATER DISTRICT	3/24/2025	43.75	2.5	3/21/2025	385	1,200	PWC
4S/1W-33N003	Knoll Park - F	F	Alameda County Water District	3/24/2025	43.64	3.38	3/21/2025	131	570	PWC
4S/1W-33R007	Margery/BI - C	C	Alameda County Water District	3/24/2025	53.25	3.25		--	--	PWC
4S/1W-33R008	Margery/BI - F	F	Alameda County Water District	3/24/2025	53.18	3.41		--	--	PWC
4S/1W-34A002		AHF	Elsie Nines	3/26/2025	60	52.95		--	--	
4S/1W-34C001	Swim Lagoon	AHF	CITY OF FREMONT	3/25/2025	61.3		3/25/2025	141	900	NMP UTM Sample from sprinklers
4S/1W-35R003		AHF	Mary A Souza	3/27/2025	190.16	--		--	--	
4S/2W-02H001	BART @ Whipple	D	Bay Area Rapid Transit District	3/28/2025	36.21	1.53		--	--	Durham WLI needed, Flashlight
4S/2W-03R003		CF	F E DUBOIS	3/28/2025	12	4.34		--	--	
4S/2W-04E002	E-3	N	ALAMEDA COUNTY WATER DISTRICT	3/26/2025	4.72	--		--	--	PWC
4S/2W-04F001	Well B	D	City of Hayward			--		--	--	PI
4S/2W-04R001	Hayward Emergen	D	City of Hayward			--		--	--	NMP
4S/2W-05G001	Eden Landing F1	F	Alameda County Water District	3/25/2025	6.75	0.73		--	--	PWC
4S/2W-05G002	Eden Landing D1	D	Alameda County Water District	3/25/2025	6.35	-0.01		--	--	PWC
4S/2W-05G003	Eden Landing D2	D	Alameda County Water District	3/25/2025	5.82	-5.99		--	--	PWC
4S/2W-05G004	Eden Landing C2	C	Alameda County Water District	3/25/2025	6.73	4.91		--	--	PWC
4S/2W-05G005	Eden Landing	C	Alameda County Water District	3/25/2025	6.93	A		--	--	PWC Artesian
4S/2W-08Q001	2D2	D	Alameda County Water District	3/25/2025	9.25	2.48		--	--	M PWC
4S/2W-09F014	Veasy Bridgegat	D	Alameda County Water District	3/25/2025	8.25	2.74		--	--	PWC transducer
4S/2W-09L002	E-12	N	ALAMEDA COUNTY WATER DISTRICT	3/26/2025	9.11	3.62		--	--	PWC
4S/2W-09P010	E-17	N	ALAMEDA COUNTY WATER DISTRICT	3/26/2025	11.31	3.69	4/2/2025	6,460	12,000	PWC
4S/2W-10E004	Tidewater	D	Alameda County Water District	3/25/2025	14.54	2.36	3/27/2025	138	530	PWC transducer
4S/2W-11A003		D	U.S. PIPE HOLDINGS CORPORATION	3/28/2025	40.58	--	3/28/2025	76	420	
4S/2W-12C001	Whipple Well	D	ALAMEDA COUNTY WATER DISTRICT	3/28/2025	68.61	1.74		--	--	
4S/2W-12K008	Pacific & Lewis - D	D	Alameda County Water District	3/25/2025	53.11	2.89		--	--	PWC Transducer
4S/2W-12K009	Pacific & Lewis - F	F	Alameda County Water District	3/25/2025	53.41	4.7		--	--	PWC transducer
4S/2W-12K010	Pacific & Lewis -C	C	Alameda County Water District	3/25/2025	53.39	5.71		--	--	PWC transducer
4S/2W-12K011	Pacific & Lewis - N	N	Alameda County Water District	3/25/2025	53.67	17.43		--	--	PWC transducer
4S/2W-13E003		N	ALAMEDA COUNTY FLOOD CONTROL	3/28/2025	27.93	15.42		--	--	PWC End of Beard Rd
4S/2W-13H004		N	CITY OF UNION CITY	3/24/2025	37.55	18.32		--	--	UC Library; measuring pt is under gray plastic cap
4S/2W-13K004		C	RAYMOND N. NELSEN	3/28/2025	35.04	4.19		--	--	Need Wrench
4S/2W-13M005		C	Rolando & Ada Belluomini	3/28/2025	26.46	2.85		--	--	3478 Beard Rd
4S/2W-13M006		C	ROSEMARY & ROBERT MAZZA	3/28/2025	27.42	4.99		--	--	3332 Beard Rd; Tape
4S/2W-13P004	PIEZ#3	N	ALAMEDA COUNTY WATER DISTRICT	3/25/2025	25.9	15.7	3/19/2025	98	630	PWC Transducer
4S/2W-13P005	WELL G-1	D	Alameda County Water District	3/25/2025	25.98	3.49	3/19/2025	585	1,400	PWC
4S/2W-13P006	WELL H-1	F	Alameda County Water District	3/25/2025	26.15	4.27	3/19/2025	168	760	PWC
4S/2W-13P007	WELL I-1	C	Alameda County Water District	3/25/2025	26	4.54	3/19/2025	113	710	PWC
4S/2W-13R007	Morello/Cherry Blossm	CF	ALAMEDA COUNTY WATER DISTRICT	3/25/2025	37.62	4.91		--	--	Morello Ct
4S/2W-14C001		CF	Tropics Mobile Home Park	3/28/2025	23.27	4.35		--	--	Almaden Blvd/Cumana Cir

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Well Number	Alternate Well ID	Aquifer	Owner	Date of Water Level	Reference Elevation* (feet)	Water Elevation* (feet)	Water Sample Date	Chloride (ppm)	TDS (ppm)	Remarks
4S/2W-14D003	Lake Chad	D	Alameda County Water District	3/25/2025	13.95	2.74	3/19/2025	45	390	PWC Transducer
4S/2W-14D004	LAKE CHAD - D	D	Alameda County Water District	3/25/2025	13.9	2.59	3/19/2025	146	530	PWC Transducer
4S/2W-14D005	LAKE CHAD - C	C	Alameda County Water District	3/25/2025	14.1	4.66	3/19/2025	225	740	PWC
4S/2W-14D006	LAKE CHAD - C	C	Alameda County Water District	3/25/2025	14.18	4.5	3/19/2025	80	520	PWC
4S/2W-14D007	LAKE CHAD - N	N	Alameda County Water District	3/25/2025	14.07	11.18	3/19/2025	33	360	PWC
4S/2W-14H003		N	City of Union City	3/27/2025	25.22	--		--	--	DA NMP UTM
4S/2W-14L006	PIEZ#2	N	ALAMEDA COUNTY WATER DISTRICT	3/27/2025	14.97	11.76		--	--	PWC
4S/2W-14N001	Lowry	N	ALAMEDA COUNTY WATER DISTRICT	3/27/2025	20.73	11.97		--	--	
4S/2W-15C007	PIEZ#1	N	ALAMEDA COUNTY WATER DISTRICT	3/27/2025	9.31	7.39	3/27/2025	44	410	PWC
4S/2W-15L005	Contempo Pk	D	Alameda County Water District	3/25/2025	7.63	2.52	3/19/2025	330	860	PWC Transducer
4S/2W-15L006	Contempo - C	C	Alameda County Water District	3/25/2025	7.59	4.41	3/19/2025	110	640	PWC
4S/2W-15L007	Contempo - N	N	Alameda County Water District	3/25/2025	7.66	A	3/19/2025	320	960	PWC
4S/2W-15M003		C	CITY OF UNION CITY	3/27/2025	7.77	2.66		--	--	
4S/2W-15M004		C	CITY OF UNION CITY	3/26/2025	7.73	4.33		--	--	
4S/2W-15P001	PIEZ#10	N	ALAMEDA COUNTY WATER DISTRICT	3/26/2025	6.1	A		--	--	PWC
4S/2W-16A008	Alvarado @ UC Blvd	N	Alameda County Water District	3/26/2025	5.64	4.43	4/1/2025	3,194	6,300	PWC
4S/2W-16C011	E-19	N	ALAMEDA COUNTY WATER DISTRICT	3/26/2025	10.31	3.45		--	--	PWC
4S/2W-16C012	E-20	N	ALAMEDA COUNTY WATER DISTRICT	3/26/2025	4.62	3.74	4/4/2025	4,389	8,600	PWC
4S/2W-16J002	E-23	N	ALAMEDA COUNTY WATER DISTRICT	3/26/2025	8.38	7.32		--	--	PWC
4S/2W-16L011	E-26	N	ALAMEDA COUNTY WATER DISTRICT	3/26/2025	3.34	A		--	--	
4S/2W-16L014	E-101	N	ALAMEDA COUNTY WATER DISTRICT	3/26/2025	8.5	5.77		--	--	PWC New Flat Cap
4S/2W-16L015	Site E	N	ALAMEDA COUNTY WATER DISTRICT	3/26/2025	11.82	5.6		--	--	
4S/2W-16Q001	E-27	N	ALAMEDA COUNTY WATER DISTRICT	3/26/2025	9.13	6.39		--	--	M NA PWC UTM
4S/2W-21B007	Site D	N	ALAMEDA COUNTY WATER DISTRICT	3/26/2025	10.94	7.17		--	--	
4S/2W-21G001		CF	ALAMEDA COUNTY FLOOD CONTROL	3/26/2025	8.08	4.22		--	--	UTS
4S/2W-21G004	E-31	N	ALAMEDA COUNTY WATER DISTRICT	3/26/2025	8.79	6.71		--	--	PWC
4S/2W-21G006	E-33	N	ALAMEDA COUNTY WATER DISTRICT	3/26/2025	4.11	A		--	--	PWC Fence, Artesian
4S/2W-21G009	E-109	N	ALAMEDA COUNTY WATER DISTRICT	3/26/2025	8.96	--		--	--	M OBS@4' PWC UTM
4S/2W-21J001		CF	ALAMEDA COUNTY FLOOD CONTROL	3/24/2025	7.07	3.95		--	--	
4S/2W-21N001	E-40	N	ALAMEDA COUNTY WATER DISTRICT	3/27/2025	5.49	A		--	--	PWC
4S/2W-21P001		C	ALAMEDA COUNTY FLOOD CONTROL	3/26/2025	8.17	1.1		--	--	PWC
4S/2W-21P003	E-39	N	ALAMEDA COUNTY WATER DISTRICT	3/27/2025	3.96	A		--	--	PWC
4S/2W-21Q001		C	ALAMEDA COUNTY FLOOD CONTROL	3/24/2025	5.73	3.37		--	--	PWC
4S/2W-21Q002	E-36	N	ALAMEDA COUNTY WATER DISTRICT	3/24/2025	5.57	A		--	--	M PWC
4S/2W-22H003	Lowry @ Novato	N	ALAMEDA COUNTY WATER DISTRICT	3/27/2025	18.16	10.42		--	--	PWC
4S/2W-22P002	#8	CF	EAST BAY REGIONAL PARK DIST.	3/25/2025	10.91	4.79		--	--	OFF UTS
4S/2W-23F002	#2	C	CITY OF FREMONT	3/24/2025	15.76	4.72		--	--	UTS Call to sample; Macbeth Ave
4S/2W-23J002	AC So. Seward Dr.	N	ALAMEDA COUNTY WATER DISTRICT	3/24/2025	24.14	13.93		--	--	PWC
4S/2W-24A007		C	DINO R & RINA M CIARLO	3/28/2025	42.7	-7.63		--	--	
4S/2W-24L001		C	Gerald Bruce Johnson	3/28/2025	31.63	--		--	--	NA PI UTM
4S/2W-24L003		C	Sohan S & Bhupinder K Virdee	3/28/2025	33.43	4.39		--	--	RUN well runs periodically
4S/2W-24L006		F	BETTY KITANI	3/28/2025	32	-7.81		--	--	NA UTM
4S/2W-25D001	CLSTR#1	D	ALAMEDA COUNTY WATER DISTRICT	3/25/2025	22.23	1.29	3/25/2025	291	750	PWC transducer
4S/2W-25D002	CLSTR#1	F	ALAMEDA COUNTY WATER DISTRICT	3/25/2025	23.47	3.92	3/25/2025	364	940	PWC
4S/2W-25D003	CLSTR#1	N	ALAMEDA COUNTY WATER DISTRICT	3/25/2025	22.99	13.63	3/25/2025	605	1,500	PWC
4S/2W-25M001	Ramsgate	N	ALAMEDA COUNTY WATER DISTRICT	3/25/2025	22.14	12.09	4/2/2025	232	660	PWC
4S/2W-26H001		D	EAST BAY REGIONAL PARK DIST.	3/24/2025	19.94	--	3/24/2025	179	590	UTS
4S/2W-26K004	CLSTR#2	D	ALAMEDA COUNTY WATER DISTRICT	3/24/2025	20.31	1.12		--	--	PWC
4S/2W-26K005	CLSTR#2	C	ALAMEDA COUNTY WATER DISTRICT	3/24/2025	19.91	3.38		--	--	PWC
4S/2W-26K006	CLSTR#2	N	ALAMEDA COUNTY WATER DISTRICT	3/24/2025	19.77	10.97		--	--	PWC
4S/2W-26L001	CLSTR#3	D	ALAMEDA COUNTY WATER DISTRICT	3/25/2025	15.74	1.51	3/25/2025	258	800	M PWC cracked pad

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Well Number	Alternate Well ID	Aquifer	Owner	Date of Water Level	Reference Elevation* (feet)	Water Elevation* (feet)	Water Sample Date	Chloride (ppm)	TDS (ppm)	Remarks
4S/2W-26L002	CLSTR#3	C	ALAMEDA COUNTY WATER DISTRICT	3/25/2025	15.26	2.89	3/25/2025	1,177	2,200	PWC
4S/2W-26M008	CLSTR#3	N	ALAMEDA COUNTY WATER DISTRICT	3/24/2025	14.38	8.56	3/25/2025	98	620	M PWC
4S/2W-27L001	#10	C	Founders Title Co.	3/25/2025	9.18	--		--	--	OBS@8" UTM UTS
4S/2W-28A001	E-37	N	ALAMEDA COUNTY WATER DISTRICT	3/24/2025	6.97	4.65		--	--	PWC
4S/2W-28C001	E-42	N	ALAMEDA COUNTY WATER DISTRICT	3/27/2025	4.69	3.48		--	--	PWC
4S/2W-28D001	E-43	N	ALAMEDA COUNTY WATER DISTRICT	3/27/2025	4.84	3.6		--	--	PWC
4S/2W-28G001	E-41	N	ALAMEDA COUNTY WATER DISTRICT	3/25/2025	6.71	3.97	3/25/2025	13,844	26,000	PWC
4S/2W-35B002		N	ALAMEDA COUNTY WATER DISTRICT	3/24/2025	15.05	10.22		--	--	M PWC
4S/2W-36A006	Darvon #1	N	ALAMEDA COUNTY WATER DISTRICT	3/28/2025	34.06	--	3/19/2025	112	600	RUN
4S/2W-36A007	Darvon #2	CF	ALAMEDA COUNTY WATER DISTRICT	3/28/2025	33.6	--	3/19/2025	190	630	RUN
4S/2W-36D003		D	CITY OF NEWARK	3/24/2025	22.62	4.32		--	--	UTS
4S/2W-36F005	PIEZ#5	N	ALAMEDA COUNTY WATER DISTRICT	3/24/2025	21.43	11.72		--	--	PWC
4S/2W-36N006	Cherry&Montcalm-N	N	ALAMEDA COUNTY WATER DISTRICT	3/24/2025	14.67	11.01		--	--	PWC
4S/2W-36N010	Well T	F	ALAMEDA COUNTY WATER DISTRICT	3/25/2025	16.77	1.86	3/20/2025	1,113	2,300	PWC
4S/2W-36N011	Well U	C	ALAMEDA COUNTY WATER DISTRICT	3/25/2025	17.5	-1.65	3/20/2025	251	700	PWC
4S/2W-36N012	Well V	N	ALAMEDA COUNTY WATER DISTRICT	3/25/2025	15.86	11.38	3/20/2025	4,831	8,900	PWC
5S/1W-02N001	Williams #23	N	Dean A. & Donna H. Olsen	3/27/2025	38.01	25.43		--	--	
5S/1W-03C007		C	PRESBYTERY OF SAN FRANCISCO	3/25/2025	50.39	-0.96		--	--	Call church
5S/1W-03G003		N	LEONCIO H & MAGDELENA C ISLAYA	3/25/2025	49.24	--		--	--	NMP OBS@surface UTM
5S/1W-03N004	Irv.Park/LibraryWell	N	CITY OF FREMONT	3/27/2025	36.99	--	3/27/2025	71	550	NMP
5S/1W-04H003	PIEZ#9	N	ALAMEDA COUNTY WATER DISTRICT	3/26/2025	42.88	13.86		--	--	PWC
5S/1W-04H004	Robin & Ladner	C	Alameda County Water District	3/26/2025	45.11	2.9		--	--	PWC
5S/1W-04H005	Robin & Ladner	F	Alameda County Water District	3/26/2025	44.92	3.52		--	--	PWC
5S/1W-04P002	Curtis St. MW	N	ALAMEDA COUNTY WATER DISTRICT	3/26/2025	28.16	13.51	3/21/2025	155	1,000	PWC
5S/1W-05B001	Blacow Rd.	N	ALAMEDA COUNTY WATER DISTRICT	3/26/2025	38.26	13.75		--	--	PWC
5S/1W-05C001	Farwell	C	ALAMEDA COUNTY WATER DISTRICT	3/27/2025	38.29	--	3/19/2025	292	900	RUN UTM transducer
5S/1W-05H003	WELL C-1	D	Alameda County Water District	3/25/2025	34.31	2.81		--	--	M PWC lid cracked
5S/1W-05H004	WELL D-1	F	Alameda County Water District	3/25/2025	34.25	2.98		--	--	PWC
5S/1W-05H005	WELL E-1	C	Alameda County Water District	3/25/2025	34.31	1.64		--	--	PWC
5S/1W-05H006	WELL F-1	N	Alameda County Water District	3/25/2025	34.29	13.68		--	--	PWC
5S/1W-05M001	PIEZ#7	N	ALAMEDA COUNTY WATER DISTRICT	3/26/2025	29.42	12.72	3/28/2025	1,044	2,300	M PWC
5S/1W-06H001		CF	Sam L. Arnold	3/28/2025	28.54	--		--	--	EPD NMP UTM
5S/1W-06H004	Bellflower	C	ALAMEDA COUNTY WATER DISTRICT	3/28/2025	30.25	--	3/19/2025	396	970	
5S/1W-06H009	2-SF	F	Alameda County Water District	3/26/2025	33.04	2.82	3/21/2025	702	1,500	PWC
5S/1W-06H010	2-TF	F	Alameda County Water District	3/26/2025	32.55	2.89		--	--	
5S/1W-06H011	2-MN	N	Alameda County Water District	3/26/2025	32.59	13.18	3/27/2025	165	930	PWC
5S/1W-06H012	2-MF	F	Alameda County Water District	3/26/2025	32.59	2.86	3/27/2025	657	1,400	PWC
5S/1W-06N006	Site B	N	ALAMEDA COUNTY WATER DISTRICT	3/26/2025	21.04	11.83		--	--	
5S/1W-06N007	MW in site B	C	ALAMEDA COUNTY WATER DISTRICT	3/26/2025	21.65	-1.61		--	--	M UT
5S/1W-07B036	Silliman - MW	C	Alameda County Water District	3/26/2025	16	-1.26	3/27/2025	591	1,300	PWC
5S/1W-07G010	Y	D	Alameda County Water District	3/28/2025	13.06	0.68		--	--	M PWC
5S/1W-07H002		CF	Brook R. & Forrest E. Heath	3/26/2025	10.37	2.2		--	--	EPD OBS@-15
5S/1W-07J001	E-77	N	ALAMEDA COUNTY WATER DISTRICT	3/26/2025	9.51	A	4/1/2025	516	1,700	PWC Artesian
5S/1W-07J003	Site A	N	ALAMEDA COUNTY WATER DISTRICT	3/26/2025	11.48	9.69		--	--	OFF probe can get stuck
5S/1W-07J005	Site A -MW	F	Alameda County Water District	3/26/2025	11.45	3.5		--	--	PWC encampment outside fence
5S/1W-08D001	E-117	N	ALAMEDA COUNTY WATER DISTRICT	3/27/2025	18.15	11.78		--	--	PWC
5S/1W-08G002	E-81	N	ALAMEDA COUNTY WATER DISTRICT	3/26/2025	15.36	11.75		--	--	PWC
5S/1W-08P004	E-82	N	ALAMEDA COUNTY WATER DISTRICT	3/26/2025	8.7	A		--	--	PWC Artesian
5S/1W-10K002		C	SOUTHLAKE MOBIL HOME PARK	3/26/2025	26.96	--		--	--	NMP OBS@~ 56' UTM
5S/1W-14B003		N	J.C. & A.C. LOPES	3/26/2025	38.26	19.51		--	--	
5S/1W-16M006	AutoMall-C	C	ALAMEDA COUNTY WATER DISTRICT	3/26/2025	11.67	2.53	3/20/2025	456	1,300	PWC

Alameda County Water District
Groundwater Monitoring Program
Spring 2025

Well Number	Alternate Well ID	Aquifer	Owner	Date of Water Level	Reference Elevation* (feet)	Water Elevation* (feet)	Water Sample Date	Chloride (ppm)	TDS (ppm)	Remarks
5S/1W-16M007	AutoMall-F	F	ALAMEDA COUNTY WATER DISTRICT	3/26/2025	11.91	3.07	3/20/2025	13	380	PWC
5S/1W-16M008	AutoMall D1	D	ALAMEDA COUNTY WATER DISTRICT	3/26/2025	11.86	3.5	3/20/2025	12	340	PWC
5S/1W-17A003	E-115	N	Alameda County Water District	3/28/2025	10.2	A		--	--	M PWC
5S/1W-17J001		CF	OAKLAND SCAVENGER CO.	3/25/2025	6.47	--		--	--	NMP UTM
5S/1W-17J004	E-88	N	Alameda County Water District	3/25/2025	6.74	A		--	--	M
5S/1W-17J006	E-113	N	Alameda County Water District	3/28/2025	6.25	A		--	--	PWC
5S/1W-17R021		CF	WASTE MANAGEMENT OF ALAMEDA COUNTY	3/25/2025	9.67	--	3/25/2025	67	400	NMP RUN UTM
5S/1W-20G001	WM-C	D	Alameda County Water District	3/25/2025	8.29	3.98	4/4/2025	16	330	PWC
5S/1W-22H001	E-100	N	Alameda County Water District	3/28/2025	10.42	4.92		--	--	PWC
5S/2W-01B002		C	J.S. OLIVEIRA	3/28/2025	18.59	-5.58		--	--	M PWC
5S/2W-01B009	1-MF	F	Alameda County Water District	3/26/2025	22.42	2.12	4/1/2025	744	1,600	PWC
5S/2W-01B010	1-MC	C	Alameda County Water District	3/26/2025	22.14	-2.14	4/1/2025	521	1,100	PWC
5S/2W-01B011	1-SF	F	Alameda County Water District	3/26/2025	22.07	2.04	4/1/2025	914	1,900	PWC
5S/2W-01B012	1-TF	F	Alameda County Water District	3/26/2025	23.9	1.83		--	--	
5S/2W-01R001	E-68	N	ALAMEDA COUNTY WATER DISTRICT	3/26/2025	17.04	12.09		--	--	PWC
5S/2W-01R014	DESAL.PLANT MW	C	Alameda County Water District	3/26/2025	18.28	-1.64	3/20/2025	543	1,200	PWC
5S/2W-02C005	E-123	N	ALAMEDA COUNTY WATER DISTRICT	3/25/2025	9.81	7.38		--	--	PWC
5S/2W-02E001	E-49	N	ALAMEDA COUNTY WATER DISTRICT	3/28/2025	5.11	3.84		--	--	PWC
5S/2W-02F003	Well W	C	ALAMEDA COUNTY WATER DISTRICT	3/25/2025	10.36	1.7	3/28/2025	896	1,700	PWC
5S/2W-02F004	Well X	N	ALAMEDA COUNTY WATER DISTRICT	3/25/2025	10.34	7.95	3/28/2025	420	1,400	PWC
5S/2W-02M006	E-51	N	ALAMEDA COUNTY WATER DISTRICT	3/25/2025	7.93	3.57		--	--	M PWC
5S/2W-02M007	Site C	N	ALAMEDA COUNTY WATER DISTRICT	3/25/2025	11.08	5.19		--	--	M UTS Hole in fence
5S/2W-02Q001	OBSER. WELL #1	N	ALAMEDA COUNTY WATER DISTRICT	3/28/2025	9.63	7.1		--	--	
5S/2W-03A003	E-48	N	Alameda County Water District	3/28/2025	5.47	A		--	--	M PWC
5S/2W-03G001	E-44	N	Alameda County Water District	3/26/2025	6.9	4.38	3/26/2025	20,282	34,000	PWC
5S/2W-03H002	E-47	N	Alameda County Water District	3/28/2025	4.89	4.48	3/20/2025	28,639	48,000	PWC
5S/2W-03H004	Old Jarvis - C	C	Alameda County Water District	3/28/2025	5.84	-0.75	3/20/2025	44,887	77,000	PWC
5S/2W-03H005	Old Jarvis - F	F	Alameda County Water District	3/28/2025	5.8	5.41		--	--	PWC
5S/2W-08M011	Dumbarton - F	CF	Alameda County Water District	3/25/2025	6.45	A	3/27/2025	66	430	PWC
5S/2W-11H002	E-60	N	Alameda County Water District	3/27/2025	9.47	5.98		--	--	PWC
5S/2W-12B008		D	LESLIE SALT CO.	3/27/2025	12.49	--	3/27/2025	488	11,00	NMP RUN UTM capped M.P.
5S/2W-12C003	E-62	N	Alameda County Water District	3/27/2025	10.1	6.57		--	--	PWC
5S/2W-14E005	DE1-D1	D	ALAMEDA COUNTY WATER DISTRICT	3/27/2025	7.92	A		--	--	PWC
5S/2W-14E006	DE1-F	F	Alameda County Water District	3/27/2025	7.96	A		--	--	PWC
5S/2W-14E007	DE1-C	C	ALAMEDA COUNTY WATER DISTRICT	3/27/2025	7.77	A		--	--	PWC
5S/2W-14E008	DE1-N	N	ALAMEDA COUNTY WATER DISTRICT	3/27/2025	7.75	4.11		--	--	PWC
5S/2W-14E009	DE1-D2	D	ALAMEDA COUNTY WATER DISTRICT	3/27/2025	7.88	A		--	--	PWC
5S/2W-17F002		N	LESLIE SALT CO.	3/25/2025	7.7	2.84		--	--	M label wells
5S/2W-17F003		C	LESLIE SALT CO.	3/25/2025	7.8	A		--	--	M label wells
5S/2W-24B003	Mowry Slough - C	C	Alameda County Water District	3/27/2025	8.73	A		--	--	PWC

*NGVD 1929

APPENDIX F

FALL 2025 GROUNDWATER MONITORING RECORDS

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Alameda County Water District
Groundwater Monitoring Program
Fall 2025

Well Number	Alternate Well ID	Aquifer	Owner	Date of Water Level	Reference Elevation* (feet)	Water Elevation* (feet)	Water Sample Date	Chloride (ppm)	TDS (ppm)	Remarks
3S/3W-25C020	WD2	D	Alameda County Water District	9/16/2025	8.84	-3.24	9/16/2025	69	410	PWC
4S/1W-07C005		FD	MASONIC HOMES OF CALIFORNIA	9/17/2025	101.31	-3.3		--	--	UTS Off
4S/1W-07K001		D	Masonic Homes of California	9/17/2025	67.4	1.48		--	--	PI
4S/1W-07N005		CF	City of Union City	9/16/2025	55.29	0.57	9/16/2025	76	550	Call CoUC for sample
4S/1W-17M006	Well L	D	ALAMEDA COUNTY WATER DISTRICT	9/16/2025	49.9	-1.95	9/9/2025	119	520	PWC
4S/1W-17M007	Well M	C	ALAMEDA COUNTY WATER DISTRICT	9/16/2025	50	0.2	9/9/2025	69	400	PWC
4S/1W-17M008	Well N	N	ALAMEDA COUNTY WATER DISTRICT	9/16/2025	49.62	12.37	9/9/2025	63	380	PWC cracked 2" PVC at top
4S/1W-18K005		F	City of Union City	9/16/2025	48.6	--	9/16/2025	67	390	NMP UTM Chris (CoUC) Sampled from tank
4S/1W-18M010		C	Frank J & Catherine M Thrall	9/16/2025	39.92	-0.41		--	--	Call Mina to open gate
4S/1W-18N004		C	Eleanor Kabrich	9/18/2025	41.6	-1.21		--	--	
4S/1W-19A003		F	Alameda County Flood Control	9/16/2025	54.37	-1.43		--	--	
4S/1W-19E002	PIEZ#4	N	ALAMEDA COUNTY WATER DISTRICT	9/16/2025	37.95	12.24	8/20/2025	68	430	PWC
4S/1W-19J006		N	Alameda County Flood Control	9/16/2025	51.28	12.75		--	--	PWC
4S/1W-19L002	HUDSON/NICOLET	C	ALAMEDA COUNTY WATER DISTRICT	9/16/2025	40.39	-1.12	9/9/2025	69	370	OBS@160' PWC double checked measurement
4S/1W-19N002	Well H	D	ALAMEDA COUNTY WATER DISTRICT	9/16/2025	40.45	-2.13	8/19/2025	296	860	PWC
4S/1W-19N003	WESTRIDGE PARK	C	CITY OF FREMONT	9/16/2025	39.81	-2.14		--	--	PWC Well not secure, no well cap, lid rusted
4S/1W-19N004	Well I	F	ALAMEDA COUNTY WATER DISTRICT	9/16/2025	40.68	-2.31	8/19/2025	211	720	PWC
4S/1W-19N005	Well J	C	ALAMEDA COUNTY WATER DISTRICT	9/16/2025	40.55	-1.89	8/19/2025	70	410	PWC
4S/1W-19N014	Well K	N	ALAMEDA COUNTY WATER DISTRICT	9/16/2025	40.5	11.9	8/19/2025	66	400	PWC
4S/1W-20A003	Nursery Well	CF	ALAMEDA COUNTY WATER DISTRICT	9/17/2025	63.42	2.6	9/24/2025	70	460	OFF UTS
4S/1W-20G001	Montecito Well	CFD	Alameda County Water District	9/17/2025	60.72	6.81		--	--	
4S/1W-20H003	DH-4	N	ALAMEDA COUNTY WATER DISTRICT	9/17/2025	67.52	15.65		--	--	PWC
4S/1W-20J004	UP-1A	N	ALAMEDA COUNTY WATER DISTRICT	9/15/2025	58.9	17.37		--	--	PWC
4S/1W-20J005	UP-1C	N	ALAMEDA COUNTY WATER DISTRICT	9/15/2025	59.14	13.17		--	--	PWC small lid, leftmost facing creek
4S/1W-20J006	UP-1B	N	ALAMEDA COUNTY WATER DISTRICT	9/15/2025	59.07	16.96		--	--	PWC smaller lid
4S/1W-20R003	UP-2A	N	ALAMEDA COUNTY WATER DISTRICT	9/15/2025	59.11	14.88		--	--	PWC
4S/1W-20R004	UP-2B	N	ALAMEDA COUNTY WATER DISTRICT	9/15/2025	59.2	13.65		--	--	PWC
4S/1W-20R005	UP-2C	N	ALAMEDA COUNTY WATER DISTRICT	9/15/2025	59.06	12.86	8/27/2025	63	400	PWC Leftmost Well
4S/1W-21F005	KAISER #5	AHF	ALAMEDA COUNTY WATER DISTRICT	9/17/2025	69.7	39		--	--	Cracked concrete pad
4S/1W-21H002	Vallejo St. @ End	AHF	Alameda County Water District	9/16/2025	75.08	40.78		--	--	PWC Dam Down
4S/1W-21J003	EB-1	AHF	Alameda County Water District	9/17/2025	77.3	37.31	8/27/2025	73	460	PWC
4S/1W-21L003		AHF	ALAMEDA COUNTY WATER DISTRICT	9/17/2025	66.57	37.42		--	--	Well pad removed; measured TOC
4S/1W-21L005	DH-6	AHF	ALAMEDA COUNTY WATER DISTRICT	9/17/2025	67.46	37.06	8/27/2025	63	440	PWC
4S/1W-21L006	DH-5	AHF	ALAMEDA COUNTY WATER DISTRICT	9/17/2025	67.81	37.14		--	--	
4S/1W-21L007	KAISER #1	AHF	ALAMEDA COUNTY WATER DISTRICT	9/17/2025	70.62	37.49		--	--	
4S/1W-21L008	KAISER #4	AHF	ALAMEDA COUNTY WATER DISTRICT	9/17/2025	66.94	36.91		--	--	PWC
4S/1W-21P004		AHF	CITY OF FREMONT	9/18/2025	65.29	36.86		--	--	
4S/1W-21P006	P.T. #1	AHF	ALAMEDA COUNTY WATER DISTRICT	9/15/2025	66.37	--	8/26/2025	75	610	RUN
4S/1W-21P007	P.T. #2	AHF	ALAMEDA COUNTY WATER DISTRICT	9/15/2025	66.77	31.99	8/11/2025	72	540	
4S/1W-21P008	P.T. #3	AHF	ALAMEDA COUNTY WATER DISTRICT	9/15/2025	66.54	--	9/9/2025	70	460	RUN
4S/1W-21P009	P.T. #4	AHF	ALAMEDA COUNTY WATER DISTRICT	9/16/2025	66.44	32.19	8/11/2025	74	580	
4S/1W-21P010	P.T. #5	AHF	ALAMEDA COUNTY WATER DISTRICT	9/15/2025	67.28	33.52		--	--	
4S/1W-21P011	P.T. #6	AHF	ALAMEDA COUNTY WATER DISTRICT	9/15/2025	67.69	35.11		--	--	
4S/1W-21P012	P.T. #7	AHF	ALAMEDA COUNTY WATER DISTRICT	9/15/2025	68.36	35.06	8/19/2025	68	430	
4S/1W-21P013	P.T. #8	AHF	ALAMEDA COUNTY WATER DISTRICT	9/15/2025	68.86	34.13	8/20/2025	71	460	
4S/1W-21R007	MW-12(offsite)	AHF	Alameda County Water District	9/15/2025	72.21	37.13	8/20/2025	65	480	PWC
4S/1W-26L006		AHF	CITY OF FREMONT	9/15/2025	65.88	37.91	9/15/2025	84	520	Sample from sprinkler
4S/1W-26Q011		AHF	ERNIE SILVA	9/15/2025	96.44	74.59	9/15/2025	80	610	used tape to measure
4S/1W-27A002		AHF	Fremont Community Church	9/17/2025	71.09	38.45	9/17/2025	120	850	
4S/1W-27D008	AHF Indicator	AHF	ALAMEDA COUNTY WATER DISTRICT	9/16/2025	66.59	37.54	9/4/2025	73	720	PWC
4S/1W-27E001		AHF	CHURCH OF JESUS CHRIST	9/16/2025	62.86	37.25		--	--	PI UTS

Alameda County Water District
Groundwater Monitoring Program
Fall 2025

Well Number	Alternate Well ID	Aquifer	Owner	Date of Water Level	Reference Elevation* (feet)	Water Elevation* (feet)	Water Sample Date	Chloride (ppm)	TDS (ppm)	Remarks
4S/1W-27G002		AHF	CITY OF FREMONT	9/18/2025	62.73	37.4	9/18/2025	71	720	
4S/1W-27P001		AHF	CITY OF FREMONT	9/18/2025	54.04	37.57	9/18/2025	72	720	Sampled from sprinkler
4S/1W-27P002		AHF	CITY OF FREMONT	9/18/2025	52.65	38.03	9/18/2025	131	910	PI Sampled from well faucet
4S/1W-28C001	Mowry #1	N	ALAMEDA COUNTY WATER DISTRICT	9/15/2025	64.81	--	8/4/2025	72	470	RUN
4S/1W-28C014	Mowry #2	D	ALAMEDA COUNTY WATER DISTRICT	9/15/2025	63.64	-4	8/18/2025	119	510	
4S/1W-28C015	Mowry #3	CF	ALAMEDA COUNTY WATER DISTRICT	9/15/2025	63.87	-3.13	8/4/2025	77	450	
4S/1W-28C016	Mowry #4	N	ALAMEDA COUNTY WATER DISTRICT	9/15/2025	66.08	7.9		--	--	
4S/1W-28C018	Mowry #6	CF	ALAMEDA COUNTY WATER DISTRICT	9/15/2025	64.8	-3.44	8/25/2025	91	500	
4S/1W-28C019	Mowry #7	N	ALAMEDA COUNTY WATER DISTRICT	9/15/2025	63.82	8.04		--	--	
4S/1W-28C020	Mowry #8	N	ALAMEDA COUNTY WATER DISTRICT	9/15/2025	64.13	8.12	8/18/2025	71	450	
4S/1W-28C021	Mowry #9	CF	ALAMEDA COUNTY WATER DISTRICT	9/15/2025	65.02	-3.57	8/18/2025	87	500	
4S/1W-28D001	Well A	D	ALAMEDA COUNTY WATER DISTRICT	9/15/2025	63.03	-2.59	8/20/2025	86	450	PWC
4S/1W-28D008	Well B	F	ALAMEDA COUNTY WATER DISTRICT	9/15/2025	62.77	-2.68	8/20/2025	88	470	PWC
4S/1W-28D011	Well C	C	ALAMEDA COUNTY WATER DISTRICT	9/15/2025	62.9	-2.01	8/20/2025	77	460	PWC
4S/1W-28D012	Well D	N	ALAMEDA COUNTY WATER DISTRICT	9/15/2025	62.86	10.67	8/20/2025	70	450	PWC Cracked pad
4S/1W-28F018	BART Way - N	N	Alameda County Water District	9/15/2025	58.71	11.29	8/28/2025	54	450	PWC
4S/1W-28F024	BART WAY-F	F	ALAMEDA COUNTY WATER DISTRICT	9/15/2025	59.15	-2.4	8/28/2025	99	660	PWC
4S/1W-28G005		C	Washington Township Healthcare Dist	9/18/2025	57.4	-2.33	9/16/2025	84	530	New contact call for access
4S/1W-28M002	HASTINGS - N	N	Alameda County Water District	9/15/2025	53.81	11.39	8/19/2025	75	570	PWC
4S/1W-28M005	HASTINGS - D	D	Alameda County Water District	9/15/2025	54.12	-2.46	8/19/2025	121	530	PWC
4S/1W-28M006		C	Mercedes Williams	9/15/2025	57.09	--		--	--	NA PI Fenced; no customer contact
4S/1W-28M009	HASTINGS - F	F	Alameda County Water District	9/15/2025	54.21	-2.64	8/19/2025	512	1,300	PWC
4S/1W-28M010	HASTINGS - C	C	Alameda County Water District	9/15/2025	54.2	-2.25	8/19/2025	86	560	PWC
4S/1W-28P004	BEACON	C	ALAMEDA COUNTY WATER DISTRICT	9/16/2025	53.56	-2.26	8/25/2025	79	520	PWC
4S/1W-28P006	Well E	D	ALAMEDA COUNTY WATER DISTRICT	9/16/2025	53.66	-2.94	8/25/2025	188	640	PWC
4S/1W-28P007	Well F	F	ALAMEDA COUNTY WATER DISTRICT	9/16/2025	53.5	-3.08	8/25/2025	459	1,300	PWC
4S/1W-28P008	Well G	N	ALAMEDA COUNTY WATER DISTRICT	9/16/2025	53.53	11.4	8/25/2025	86	670	PWC
4S/1W-28R003	Fmt. Library F	F	Alameda County Water District	9/15/2025	59.7	-2.6	8/20/2025	138	880	PWC
4S/1W-29A006	BHF Indicator	N	ALAMEDA COUNTY WATER DISTRICT	9/16/2025	61.23	12.28		--	--	PWC
4S/1W-29F002		N	Robert D & Virginia W. Grate	9/17/2025	51.93	11.8		--	--	PWC
4S/1W-29H002	Centerville Par	F	ALAMEDA COUNTY WATER DISTRICT	9/16/2025	52.44	-2.37	8/20/2025	94	470	PWC
4S/1W-29J003		C	CITY OF FREMONT	9/17/2025	55.28	--	9/17/2025	80	440	UTM Sampled from sprinklers
4S/1W-29J008		N	Eugene Dias	9/18/2025	58.48	--		--	--	NA PI UTM UTS locked gate, phone disconnected; left door hanger
4S/1W-29L012	Fremont Mattos	D	ALAMEDA COUNTY WATER DISTRICT	9/16/2025	50.62	-3.78		--	--	PWC Need 2" pipe
4S/1W-30A002	Well O	FD	ALAMEDA COUNTY WATER DISTRICT	9/16/2025	51.81	-2.79	8/20/2025	154	610	PWC
4S/1W-30A004	Well Q	C	ALAMEDA COUNTY WATER DISTRICT	9/16/2025	52.01	-1.74	8/20/2025	68	420	PWC
4S/1W-30A005	Well R	N	ALAMEDA COUNTY WATER DISTRICT	9/16/2025	52.2	11.69	8/20/2025	63	400	PWC
4S/1W-30E003	CORONADO 2	D	ALAMEDA COUNTY WATER DISTRICT	9/16/2025	42.12	-2.95	9/24/2025	134	530	PWC transducer
4S/1W-30E004	CORONADO 1	N	ALAMEDA COUNTY WATER DISTRICT	9/16/2025	42.17	10.59	9/24/2025	102	540	PWC
4S/1W-30J002	Central Apts.	N	Jeffery H. Lee	9/16/2025	46.74	11.37		--	--	PWC
4S/1W-30L006		D	Joseph G. Dutra	9/18/2025	42.23	--		--	--	NA
4S/1W-30L008		N	Joseph G. Dutra	9/18/2025	41.9	--		--	--	NA
4S/1W-30R002		C	Frank G. & Alice C. Garcia	9/18/2025	46.14	-4.26		--	--	PI leave card w/water levels for owner
4S/1W-30R004		N	Frank G. & Alice C. Garcia	9/18/2025	45.19	10.91		--	--	leave card w/water level for owner
4S/1W-31B003	Willowood #1	D	ALAMEDA COUNTY WATER DISTRICT	9/16/2025	43.54	-2.76	9/3/2025	298	830	PWC
4S/1W-31B011	Willowood # 2	CF	ALAMEDA COUNTY WATER DISTRICT	9/16/2025	44.47	-4.82		--	--	Measured from sole plate
4S/1W-31C003	Towers @ Hansen	N	ALAMEDA COUNTY WATER DISTRICT	9/18/2025	36.56	10.31	8/29/2025	83	520	PWC
4S/1W-31J001		D	GLENMOOR GARDENS HOMEOWNERS ASSOCIA	9/18/2025	38.94	--	9/18/2025	217	610	RUN Sampled from tank
4S/1W-31L008	off Blacow@Line F-1	N	Alameda County Water District	9/15/2025	36.76	9.59		--	--	PWC
4S/1W-31L011		N	Alameda County Water District	9/15/2025	34.47	9.16	8/26/2025	102	550	PWC
4S/1W-31N001	Cedar #1	C	ALAMEDA COUNTY WATER DISTRICT	9/15/2025	35.37	--	8/20/2025	413	1,000	RUN UTM

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Well Number	Alternate Well ID	Aquifer	Owner	Date of Water Level	Reference Elevation* (feet)	Water Elevation* (feet)	Water Sample Date	Chloride (ppm)	TDS (ppm)	Remarks
4S/1W-31N003	Cedar #2	N	ALAMEDA COUNTY WATER DISTRICT	9/15/2025	35.2	--	8/20/2025	152	800	RUN UTM
4S/1W-32E011	Meyer Park - C	C	Alameda County Water District	9/16/2025	43.68	-5.35	8/26/2025	92	460	PWC
4S/1W-32E012	Meyer Park - F	F	Alameda County Water District	9/16/2025	43.89	-3.95	8/26/2025	160	540	PWC
4S/1W-32K011	Serra Place-F	F	Alameda County Water District	9/16/2025	43.39	-3.06	8/26/2025	1,007	2,300	PWC
4S/1W-32K014	Serra-C	C	Alameda County Water District	9/16/2025	43.28	-5.74	8/26/2025	330	950	PWC
4S/1W-32M010	Eggers near Patti's	N	ALAMEDA COUNTY WATER DISTRICT	9/16/2025	38.67	10.7	8/29/2025	107	1,100	M PWC Well head is crooked
4S/1W-32N001	Blacow - C	C	Alameda County Water District	9/15/2025	37.65	-7.07	8/29/2025	125	560	PWC
4S/1W-32N002	Blacow - F	F	Alameda County Water District	9/15/2025	37.59	-3.31	8/29/2025	860	1,900	PWC
4S/1W-32N003	3-MN	N	Alameda County Water District	9/15/2025	37.11	10.78	8/29/2025	119	650	PWC
4S/1W-32N004	3-SF	F	Alameda County Water District	9/15/2025	38.05	-3.65	8/29/2025	377	1,000	PWC
4S/1W-32N005	3-TF	F	Alameda County Water District	9/15/2025	37.17	-3.56		--	--	
4S/1W-33E001	Walnut Ave.Well	CF	City of Fremont	9/15/2025	49.62	-3.5		--	--	
4S/1W-33N002	Knoll Park	C	ALAMEDA COUNTY WATER DISTRICT	9/15/2025	43.75	-3.81	8/25/2025	366	1,100	PWC
4S/1W-33N003	Knoll Park - F	F	Alameda County Water District	9/15/2025	43.64	-2.8	8/25/2025	132	550	PWC
4S/1W-33R007	Margery/BI - C	C	Alameda County Water District	9/15/2025	53.25	-2.92	8/19/2025	100	800	PWC
4S/1W-33R008	Margery/BI - F	F	Alameda County Water District	9/15/2025	53.18	-2.74	8/19/2025	120	680	PWC
4S/1W-34A002		AHF	Elsie Nines	9/18/2025	60	51.84		--	--	
4S/1W-34C001	Swim Lagoon	AHF	CITY OF FREMONT	9/18/2025	61.3	--	9/18/2025	152	960	NMP UTM
4S/1W-35R003		AHF	Mary A Souza	9/18/2025	190.16	176.74		--	--	DA; fence locked
4S/2W-02H001	BART @ Whipple	D	Bay Area Rapid Transit District	9/19/2025	36.21	-2.29		--	--	Durham WLI needed, Flashlight
4S/2W-03R003		CF	F E DUBOIS	9/18/2025	12	0.26	9/18/2025	35	320	
4S/2W-04E002	E-3	N	ALAMEDA COUNTY WATER DISTRICT	9/18/2025	4.72	--		--	--	NA PWC UTM Gate Blocked
4S/2W-04F001	Well B	D	City of Hayward			--		--	--	PI
4S/2W-04R001	Hayward Emergen	D	City of Hayward			--	9/17/2025	157	530	RUN
4S/2W-05G001	Eden Landing F1	F	Alameda County Water District	9/16/2025	6.75	-1.03	9/12/2025	62	380	PWC
4S/2W-05G002	Eden Landing D1	D	Alameda County Water District	9/16/2025	6.35	-2.94	9/12/2025	91	430	PWC
4S/2W-05G003	Eden Landing D2	D	Alameda County Water District	9/16/2025	5.82	-7.78	9/12/2025	590	1,200	PWC
4S/2W-05G004	Eden Landing C2	C	Alameda County Water District	9/16/2025	6.73	3.96	9/12/2025	57	410	PWC
4S/2W-05G005	Eden Landing	C	Alameda County Water District	9/16/2025	6.93	A	9/16/2025	77	460	PWC Artesian
4S/2W-08Q001	2D2	D	Alameda County Water District	9/17/2025	9.25	-0.12	9/17/2025	196	650	M PWC
4S/2W-09F014	Veasy Bridgegat	D	Alameda County Water District	9/17/2025	8.25	-2.62	9/17/2025	634	1,300	PWC transducer
4S/2W-09L002	E-12	N	ALAMEDA COUNTY WATER DISTRICT	9/17/2025	9.11	2.72	9/18/2025	2,759	5,400	PWC
4S/2W-09P010	E-17	N	ALAMEDA COUNTY WATER DISTRICT	9/17/2025	11.31	2.34	9/18/2025	6,463	12,000	PWC
4S/2W-10E004	Tidewater	D	Alameda County Water District	9/17/2025	14.54	-3.79	9/5/2025	139	530	PWC transducer
4S/2W-11A003		D	U.S. PIPE HOLDINGS CORPORATION	9/19/2025	40.58	--	9/19/2025	74	400	RUN UTM
4S/2W-12C001	Whipple Well	D	ALAMEDA COUNTY WATER DISTRICT	9/19/2025	68.61	-4.64	9/10/2025	122	450	
4S/2W-12K008	Pacific & Lewis - D	D	Alameda County Water District	9/17/2025	53.11	-1.05	8/22/2025	43	380	PWC Transducer
4S/2W-12K009	Pacific & Lewis - F	F	Alameda County Water District	9/17/2025	53.41	-1.5	8/22/2025	140	620	PWC transducer
4S/2W-12K010	Pacific & Lewis -C	C	Alameda County Water District	9/17/2025	53.39	-0.6	8/22/2025	63	560	PWC transducer
4S/2W-12K011	Pacific & Lewis - N	N	Alameda County Water District	9/17/2025	53.67	12.74	8/22/2025	36	410	PWC transducer
4S/2W-13E003		N	ALAMEDA COUNTY FLOOD CONTROL	9/19/2025	27.93	11.56		--	--	PWC End of Beard Rd
4S/2W-13H004		N	CITY OF UNION CITY	9/19/2025	37.55	9.73		--	--	UC Library; measuring pt is under gray plastic cap
4S/2W-13K004		C	RAYMOND N. NELSEN	9/17/2025	35.04	-1.96	9/17/2025	116	680	Need Wrench
4S/2W-13M005		C	Rolando & Ada Belluomini	9/19/2025	26.46	-1.72		--	--	
4S/2W-13M006		C	ROSEMARY & ROBERT MAZZA	9/19/2025	27.42	-1.11		--	--	
4S/2W-13P004	PIEZ#3	N	ALAMEDA COUNTY WATER DISTRICT	9/17/2025	25.9	11.65	8/27/2025	97	680	PWC Transducer
4S/2W-13P005	WELL G-1	D	Alameda County Water District	9/17/2025	25.98	-2.53	8/27/2025	586	1,300	PWC
4S/2W-13P006	WELL H-1	F	Alameda County Water District	9/17/2025	26.15	-2	8/27/2025	168	690	PWC
4S/2W-13P007	WELL I-1	C	Alameda County Water District	9/17/2025	26	-1.74	8/27/2025	113	710	PWC
4S/2W-13R007	Morello/Cherry Blossm	CF	ALAMEDA COUNTY WATER DISTRICT	9/17/2025	37.62	-1.51		--	--	Morello Ct
4S/2W-14C001		CF	Tropics Mobile Home Park	9/18/2025	23.27	-2.88		--	--	Almaden Blvd/Cumana Cir

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Well Number	Alternate Well ID	Aquifer	Owner	Date of Water Level	Reference Elevation* (feet)	Water Elevation* (feet)	Water Sample Date	Chloride (ppm)	TDS (ppm)	Remarks
4S/2W-14D003	Lake Chad	D	Alameda County Water District	9/17/2025	13.95	-3.1	8/22/2025	45	380	PWC Transducer
4S/2W-14D004	LAKE CHAD - D	D	Alameda County Water District	9/17/2025	13.9	-3.06	8/22/2025	142	550	PWC Transducer
4S/2W-14D005	LAKE CHAD - C	C	Alameda County Water District	9/17/2025	14.1	-1.48	8/22/2025	226	750	PWC
4S/2W-14D006	LAKE CHAD - C	C	Alameda County Water District	9/17/2025	14.18	-1.53	8/22/2025	80	520	PWC
4S/2W-14D007	LAKE CHAD - N	N	Alameda County Water District	9/17/2025	14.07	8.75	8/22/2025	31	320	PWC
4S/2W-14H003		N	City of Union City		25.22	--		--	--	DA NMP UTM
4S/2W-14L006	PIEZ#2	N	ALAMEDA COUNTY WATER DISTRICT	9/17/2025	14.97	9.15	9/3/2025	100	660	PWC
4S/2W-14N001	Lowry	N	ALAMEDA COUNTY WATER DISTRICT	9/18/2025	20.73	9.33	9/11/2025	123	700	
4S/2W-15C007	PIEZ#1	N	ALAMEDA COUNTY WATER DISTRICT	9/18/2025	9.31	5.97	9/3/2025	33	340	PWC
4S/2W-15L005	Contempo Pk	D	Alameda County Water District	9/17/2025	7.63	-3.18	8/27/2025	311	820	PWC Transducer
4S/2W-15L006	Contempo - C	C	Alameda County Water District	9/17/2025	7.59	-1.53	8/27/2025	110	610	PWC
4S/2W-15L007	Contempo - N	N	Alameda County Water District	9/17/2025	7.66	A	8/27/2025	394	1,100	PWC Artesian
4S/2W-15M003		C	CITY OF UNION CITY	9/18/2025	7.77	-2.78		--	--	
4S/2W-15M004		C	CITY OF UNION CITY	9/18/2025	7.73	-1.59		--	--	
4S/2W-15P001	PIEZ#10	N	ALAMEDA COUNTY WATER DISTRICT	9/18/2025	6.1	A		--	--	PWC Artesian
4S/2W-16A008	Alvarado @ UC Blvd	N	Alameda County Water District	9/17/2025	5.64	3.28	9/3/2025	3,082	6,200	PWC
4S/2W-16C011	E-19	N	ALAMEDA COUNTY WATER DISTRICT	9/17/2025	10.31	2.93	9/18/2025	5,386	11,000	PWC
4S/2W-16C012	E-20	N	ALAMEDA COUNTY WATER DISTRICT	9/17/2025	4.62	2.84	9/18/2025	4,148	8,500	PWC
4S/2W-16J002	E-23	N	ALAMEDA COUNTY WATER DISTRICT	9/17/2025	8.38	5.76	9/18/2025	1,784	3,800	PWC
4S/2W-16L011	E-26	N	ALAMEDA COUNTY WATER DISTRICT	9/17/2025	3.34	A		--	--	
4S/2W-16L014	E-101	N	ALAMEDA COUNTY WATER DISTRICT	9/17/2025	8.5	4.39	9/25/2025	3,667	7,100	PWC
4S/2W-16L015	Site E	N	ALAMEDA COUNTY WATER DISTRICT	9/17/2025	11.82	4.21		--	--	
4S/2W-16Q001	E-27	N	ALAMEDA COUNTY WATER DISTRICT	9/17/2025	9.13	5.99	9/19/2025	9,247	27,000	M NA PWC
4S/2W-21B007	Site D	N	ALAMEDA COUNTY WATER DISTRICT	9/17/2025	10.94	5.71		--	--	
4S/2W-21G001		CF	ALAMEDA COUNTY FLOOD CONTROL	9/17/2025	8.08	-1.41		--	--	UTS
4S/2W-21G004	E-31	N	ALAMEDA COUNTY WATER DISTRICT	9/17/2025	8.79	5.11	9/19/2025	8,613	16,000	PWC
4S/2W-21G006	E-33	N	ALAMEDA COUNTY WATER DISTRICT	9/17/2025	4.11	A	9/19/2025	1,479	3,100	PWC Fence, Artesian
4S/2W-21G009	E-109	N	ALAMEDA COUNTY WATER DISTRICT	9/17/2025	8.96	--		--	--	M OBS@4' PWC UTM
4S/2W-21J001		CF	ALAMEDA COUNTY FLOOD CONTROL	9/17/2025	7.07	-2.01		--	--	
4S/2W-21N001	E-40	N	ALAMEDA COUNTY WATER DISTRICT	9/18/2025	5.49	4.39		--	--	PWC
4S/2W-21P001		C	ALAMEDA COUNTY FLOOD CONTROL	9/17/2025	8.17	-1.38	9/19/2025	82	530	OBS@140' PWC
4S/2W-21P003	E-39	N	ALAMEDA COUNTY WATER DISTRICT	9/18/2025	3.96	2.92		--	--	PWC
4S/2W-21Q001		C	ALAMEDA COUNTY FLOOD CONTROL	9/18/2025	5.73	-1.23		--	--	PWC
4S/2W-21Q002	E-36	N	ALAMEDA COUNTY WATER DISTRICT	9/18/2025	5.57	4.4	9/19/2025	6,571	13,000	M PWC
4S/2W-22H003	Lowry @ Novato	N	ALAMEDA COUNTY WATER DISTRICT	9/18/2025	18.16	8.13		--	--	PWC
4S/2W-22P002	#8	CF	EAST BAY REGIONAL PARK DIST.	9/17/2025	10.91	-1.43		--	--	OFF UTS
4S/2W-23F002	#2	C	CITY OF FREMONT	9/19/2025	15.76	-1.43		--	--	UTS Call to sample; Macbeth Ave
4S/2W-23J002	AC So. Siward Dr.	N	ALAMEDA COUNTY WATER DISTRICT	9/26/2025	24.14	10.35	9/4/2025	171	720	PWC
4S/2W-24A007		C	DINO R & RINA M CIARLO	9/18/2025	42.7	-1.13		--	--	
4S/2W-24L001		C	Gerald Bruce Johnson	9/19/2025	31.63	--	9/19/2025	92	420	NA PI UTM covered by building
4S/2W-24L003		C	Sohan S & Bhupinder K Virdee	9/19/2025	33.43	--	9/19/2025	126	480	RUN well runs periodically
4S/2W-24L006		F	BETTY KITANI	9/19/2025	32	-2.56		--	--	NA UTM no response from owner
4S/2W-25D001	CLSTR#1	D	ALAMEDA COUNTY WATER DISTRICT	9/16/2025	22.23	-3.32	9/11/2025	290	760	PWC transducer
4S/2W-25D002	CLSTR#1	F	ALAMEDA COUNTY WATER DISTRICT	9/16/2025	23.47	-2.23	9/11/2025	358	980	PWC
4S/2W-25D003	CLSTR#1	N	ALAMEDA COUNTY WATER DISTRICT	9/16/2025	22.99	10.42	9/25/2025	585	1,500	PWC
4S/2W-25M001	Ramsgate	N	ALAMEDA COUNTY WATER DISTRICT	9/16/2025	22.14	9.09	8/29/2025	219	680	PWC
4S/2W-26H001		D	EAST BAY REGIONAL PARK DIST.	9/17/2025	19.94	-3.08		--	--	RUN UTM
4S/2W-26K004	CLSTR#2	D	ALAMEDA COUNTY WATER DISTRICT	9/16/2025	20.31	-2.4	9/11/2025	113	480	PWC
4S/2W-26K005	CLSTR#2	C	ALAMEDA COUNTY WATER DISTRICT	9/16/2025	19.91	-2.82	9/11/2025	352	980	PWC
4S/2W-26K006	CLSTR#2	N	ALAMEDA COUNTY WATER DISTRICT	9/16/2025	19.77	8.53	9/11/2025	109	660	PWC
4S/2W-26L001	CLSTR#3	D	ALAMEDA COUNTY WATER DISTRICT	9/16/2025	15.74	-2.67	9/12/2025	271	830	M PWC cracked pad

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Well Number	Alternate Well ID	Aquifer	Owner	Date of Water Level	Reference Elevation* (feet)	Water Elevation* (feet)	Water Sample Date	Chloride (ppm)	TDS (ppm)	Remarks
4S/2W-26L002	CLSTR#3	C	ALAMEDA COUNTY WATER DISTRICT	9/16/2025	15.26	-3.17	9/12/2025	1,175	2,600	PWC
4S/2W-26M008	CLSTR#3	N	ALAMEDA COUNTY WATER DISTRICT	9/16/2025	14.38	6.89	9/12/2025	99	590	M PWC Lid
4S/2W-27L001	#10	C	Founders Title Co.	9/17/2025	9.18	--		--	--	OBS@8' UTM UTS
4S/2W-28A001	E-37	N	ALAMEDA COUNTY WATER DISTRICT	9/18/2025	6.97	3.43		--	--	PWC
4S/2W-28C001	E-42	N	ALAMEDA COUNTY WATER DISTRICT	9/17/2025	4.69	2.24		--	--	PWC
4S/2W-28D001	E-43	N	ALAMEDA COUNTY WATER DISTRICT	9/17/2025	4.84	2.31	9/17/2025	24,463	42,000	PWC
4S/2W-28G001	E-41	N	ALAMEDA COUNTY WATER DISTRICT	9/17/2025	6.71	2	9/17/2025	14,011	25,000	PWC
4S/2W-35B002		N	ALAMEDA COUNTY WATER DISTRICT	9/17/2025	15.05	8.05	8/28/2025	424	1,300	M OBS PWC
4S/2W-36A006	Darvon #1	N	ALAMEDA COUNTY WATER DISTRICT	9/19/2025	34.06	--	8/20/2025	112	620	RUN
4S/2W-36A007	Darvon #2	CF	ALAMEDA COUNTY WATER DISTRICT	9/19/2025	33.6	--	8/20/2025	187	610	RUN
4S/2W-36D003		D	CITY OF NEWARK	9/19/2025	22.62	-1.93		--	--	UTS Well has no pump
4S/2W-36F005	PIEZ#5	N	ALAMEDA COUNTY WATER DISTRICT	9/17/2025	21.43	8.91	9/4/2025	218	920	PWC
4S/2W-36N006	Cherry&Montcalm-N	N	ALAMEDA COUNTY WATER DISTRICT	9/17/2025	14.67	8.43	8/28/2025	5,090	9,100	PWC
4S/2W-36N010	Well T	F	ALAMEDA COUNTY WATER DISTRICT	9/17/2025	16.77	-4.37	8/28/2025	1,111	2,000	PWC
4S/2W-36N011	Well U	C	ALAMEDA COUNTY WATER DISTRICT	9/17/2025	17.5	-7.56	8/28/2025	248	660	PWC
4S/2W-36N012	Well V	N	ALAMEDA COUNTY WATER DISTRICT	9/17/2025	15.86	8.72	8/28/2025	4,549	8,400	PWC
5S/1W-02N001	Williams #23	N	Dean A. & Donna H. Olsen		38.01	--		--	--	Well destroyed 9/9/2025
5S/1W-03C007		C	PRESBYTERY OF SAN FRANCISCO	9/18/2025	50.39	-3.43	9/18/2025	165	730	Gate Locked
5S/1W-03G003		N	LEONCIO H & MAGDELENA C ISLAYA	9/18/2025	49.24	--		--	--	NMP OBS@surface UTM
5S/1W-03N004	Irv.Park/LibraryWell	N	CITY OF FREMONT	9/18/2025	36.99	--	9/18/2025	77	600	NMP UTM UTS
5S/1W-04H003	PIEZ#9	N	ALAMEDA COUNTY WATER DISTRICT	9/16/2025	42.88	11.64	8/20/2025	96	900	OBS@120' PWC
5S/1W-04H004	Robin & Ladner	C	Alameda County Water District	9/16/2025	45.11	-3.4	8/19/2025	156	800	PWC
5S/1W-04H005	Robin & Ladner	F	Alameda County Water District	9/16/2025	44.92	-2.57	8/19/2025	223	730	PWC
5S/1W-04P002	Curtis St. MW	N	ALAMEDA COUNTY WATER DISTRICT	9/16/2025	28.16	11.28	8/29/2025	149	1,000	PWC
5S/1W-05B001	Blacow Rd.	N	ALAMEDA COUNTY WATER DISTRICT	9/16/2025	38.26	10.94	9/4/2025	247	1,100	PWC
5S/1W-05C001	Farwell	C	ALAMEDA COUNTY WATER DISTRICT	9/18/2025	38.29	--	8/20/2025	291	930	UTM transducer OFF
5S/1W-05H003	WELL C-1	D	Alameda County Water District	9/16/2025	34.31	-3.32	9/3/2025	26	310	PWC
5S/1W-05H004	WELL D-1	F	Alameda County Water District	9/16/2025	34.25	-3.18	9/3/2025	24	370	PWC
5S/1W-05H005	WELL E-1	C	Alameda County Water District	9/16/2025	34.31	-4.64	9/3/2025	295	940	PWC
5S/1W-05H006	WELL F-1	N	Alameda County Water District	9/16/2025	34.29	11.06	9/3/2025	151	1,100	PWC
5S/1W-05M001	PIEZ#7	N	ALAMEDA COUNTY WATER DISTRICT	9/16/2025	29.42	9.94	9/9/2025	1,322	2,800	M PWC
5S/1W-06H001		CF	Sam L. Arnold	9/16/2025	28.54	--		--	--	EPD NMP UTM
5S/1W-06H004	Bellflower	C	ALAMEDA COUNTY WATER DISTRICT	9/18/2025	30.25	--	8/20/2025	391	980	RUN UTM
5S/1W-06H009	2-SF	F	Alameda County Water District	9/18/2025	33.04	-3.41	8/21/2025	699	1,700	PWC
5S/1W-06H010	2-TF	F	Alameda County Water District	9/18/2025	32.55	-3.45	8/26/2025	--	--	
5S/1W-06H011	2-MN	N	Alameda County Water District	9/18/2025	32.59	10.3	8/21/2025	164	960	PWC
5S/1W-06H012	2-MF	F	Alameda County Water District	9/18/2025	32.59	-3.27	8/21/2025	657	1,500	PWC
5S/1W-06N006	Site B	N	ALAMEDA COUNTY WATER DISTRICT	9/17/2025	21.04	9.42		--	--	
5S/1W-06N007	MW in site B	C	ALAMEDA COUNTY WATER DISTRICT	9/17/2025	21.65	-8.88		--	--	M UTS
5S/1W-07B036	Silliman - MW	C	Alameda County Water District	9/17/2025	16	-8.52	8/21/2025	608	1,400	PWC
5S/1W-07G010	Y	D	Alameda County Water District	9/17/2025	13.06	-5.77	8/26/2025	69	400	M PWC
5S/1W-07H002		CF	Brook R. & Forrest E. Heath	9/17/2025	10.37	--		--	--	OBS@~15 UTM
5S/1W-07J001	E-77	N	ALAMEDA COUNTY WATER DISTRICT	9/17/2025	9.51	8.27	9/5/2025	690	2,000	PW
5S/1W-07J003	Site A	N	ALAMEDA COUNTY WATER DISTRICT	9/17/2025	11.48	7.62		--	--	OFF probe can get stuck
5S/1W-07J005	Site A -MW	F	Alameda County Water District	9/17/2025	11.45	-2.57	9/5/2025	11	360	PWC
5S/1W-08D001	E-117	N	ALAMEDA COUNTY WATER DISTRICT	9/17/2025	18.15	9.49	9/10/2025	1,621	3,500	PWC
5S/1W-08G002	E-81	N	ALAMEDA COUNTY WATER DISTRICT	9/17/2025	15.36	9.52	8/28/2025	371	1,300	PWC
5S/1W-08P004	E-82	N	ALAMEDA COUNTY WATER DISTRICT	9/17/2025	8.7	7.7		--	--	PWC
5S/1W-10K002		C	SOUTHLAKE MOBIL HOME PARK	9/19/2025	26.96	--	9/19/2025	225	740	NMP UTM
5S/1W-14B003		N	J.C. & A.C. LOPES	9/16/2025	38.26	18.06		--	--	
5S/1W-16M006	AutoMail-C	C	ALAMEDA COUNTY WATER DISTRICT	9/16/2025	11.67	-3.51	8/21/2025	447	1,200	PWC

Alameda County Water District
Groundwater Monitoring Program
Fall 2025

Well Number	Alternate Well ID	Aquifer	Owner	Date of Water Level	Reference Elevation* (feet)	Water Elevation* (feet)	Water Sample Date	Chloride (ppm)	TDS (ppm)	Remarks
5S/1W-16M007	AutoMall-F	F	ALAMEDA COUNTY WATER DISTRICT	9/16/2025	11.91	-2.37	8/21/2025	13	400	PWC
5S/1W-16M008	AutoMall D1	D	ALAMEDA COUNTY WATER DISTRICT	9/16/2025	11.86	-2.25	8/21/2025	12	340	PWC
5S/1W-17A003	E-115	N	Alameda County Water District	9/16/2025	10.2	9.2	9/4/2025	578	1,700	M PWC
5S/1W-17J001		CF	OAKLAND SCAVENGER CO.	9/16/2025	6.47	--	9/16/2025	16	370	NMP UTM
5S/1W-17J004	E-88	N	Alameda County Water District	9/16/2025	6.74	A		--	--	M bush overgrowth, Artesian
5S/1W-17J006	E-113	N	Alameda County Water District	9/16/2025	6.25	A	9/10/2025	711	1,900	PWC Artesian
5S/1W-17R021		CF	WASTE MANAGEMENT OF ALAMEDA COUNTY	9/16/2025	9.67	--	9/16/2025	64	400	NMP UTM
5S/1W-20G001	WM-C	D	Alameda County Water District	9/16/2025	8.29	-1.56	8/22/2025	16	370	PWC
5S/1W-22H001	E-100	N	Alameda County Water District	9/16/2025	10.42	4.37	9/10/2025	12,809	23,000	PWC
5S/2W-01B002		C	J.S. OLIVEIRA	9/19/2025	18.59	--		--	--	DA PWC Owner not home
5S/2W-01B009	1-MF	F	Alameda County Water District	9/17/2025	22.42	-4.26	8/21/2025	752	1,800	PWC
5S/2W-01B010	1-MC	C	Alameda County Water District	9/17/2025	22.14	-9.17	8/21/2025	511	1,300	PWC
5S/2W-01B011	1-SF	F	Alameda County Water District	9/17/2025	22.07	-4.33	8/21/2025	932	2,200	PWC
5S/2W-01B012	1-TF	F	Alameda County Water District	9/17/2025	23.9	-4.39	9/4/2025	--	--	
5S/2W-01R001	E-68	N	ALAMEDA COUNTY WATER DISTRICT	9/17/2025	17.04	9.58	9/10/2025	2,296	4,700	PWC
5S/2W-01R014	DESAL.PLANT MW	C	Alameda County Water District	9/17/2025	18.28	-8.8	8/21/2025	529	1,200	PWC
5S/2W-02C005	E-123	N	ALAMEDA COUNTY WATER DISTRICT	9/17/2025	9.81	5.81	8/28/2025	3,138	5,800	PWC
5S/2W-02E001	E-49	N	ALAMEDA COUNTY WATER DISTRICT	9/17/2025	5.11	2.98	9/10/2025	17,544	29,000	PWC
5S/2W-02F003	Well W	C	ALAMEDA COUNTY WATER DISTRICT	9/17/2025	10.36	-2.45	9/4/2025	744	1,600	PWC
5S/2W-02F004	Well X	N	ALAMEDA COUNTY WATER DISTRICT	9/17/2025	10.34	6.11	9/4/2025	421	1,400	PWC
5S/2W-02M006	E-51	N	ALAMEDA COUNTY WATER DISTRICT	9/17/2025	7.93	2.8	9/10/2025	21,741	38,000	PWC
5S/2W-02M007	Site C	N	ALAMEDA COUNTY WATER DISTRICT	9/17/2025	11.08	4.34		--	--	UTS
5S/2W-02Q001	OBSER. WELL #1	N	ALAMEDA COUNTY WATER DISTRICT	9/25/2025	9.63	6.17		--	--	
5S/2W-03A003	E-48	N	Alameda County Water District	9/17/2025	5.47	4.07	9/11/2025	7,208	13,000	M PWC bush overgrowth
5S/2W-03G001	E-44	N	Alameda County Water District	9/16/2025	6.9	3.42	8/28/2025	19,184	36,000	PWC
5S/2W-03H002	E-47	N	Alameda County Water District	9/17/2025	4.89	3.6	9/11/2025	23,943	40,000	PWC
5S/2W-03H004	Old Jarvis - C	C	Alameda County Water District	9/17/2025	5.84	-2.32	9/11/2025	45,499	75,000	PWC
5S/2W-03H005	Old Jarvis - F	F	Alameda County Water District	9/17/2025	5.8	5.4	9/11/2025	23	750	PWC
5S/2W-08M011	Dumbarton - F	CF	Alameda County Water District	9/16/2025	6.45	A	8/26/2025	67	460	PWC Artesian
5S/2W-11H002	E-60	N	Alameda County Water District	9/18/2025	9.47	5.78	8/26/2025	1,596	3,300	PWC
5S/2W-12B008		D	LESLIE SALT CO.	9/18/2025	12.49	--	9/18/2025	494	1,000	NMP RUN UTM capped M.P.
5S/2W-12C003	E-62	N	Alameda County Water District	9/18/2025	10.1	5.57	8/26/2025	28,700	51,000	PWC
5S/2W-14E005	DE1-D1	D	ALAMEDA COUNTY WATER DISTRICT	9/18/2025	7.92	A	9/5/2025	39	380	PWC Artesian
5S/2W-14E006	DE1-F	F	Alameda County Water District	9/18/2025	7.96	A	9/5/2025	24	270	PWC Artesian
5S/2W-14E007	DE1-C	C	ALAMEDA COUNTY WATER DISTRICT	9/18/2025	7.77	A	9/5/2025	13	280	PWC Artesian
5S/2W-14E008	DE1-N	N	ALAMEDA COUNTY WATER DISTRICT	9/18/2025	7.75	3.66	9/5/2025	46,481	79,000	PWC
5S/2W-14E009	DE1-D2	D	ALAMEDA COUNTY WATER DISTRICT	9/18/2025	7.88	A	9/5/2025	56	440	PWC Artesian
5S/2W-17F002		N	LESLIE SALT CO.	9/19/2025	7.7	3.19		--	--	M label wells
5S/2W-17F003		C	LESLIE SALT CO.	9/19/2025	7.8	A		--	--	M label wells, Artesian
5S/2W-24B003	Mowry Slough - C	C	Alameda County Water District	9/18/2025	8.73	A	9/5/2025	15	270	PWC Artesian

*NGVD 1929

APPENDIX G
ABBREVIATIONS

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GROUNDWATER MONITORING RECORDS

DESCRIPTION OF ABBREVIATIONS

Alternate Well Identifications

Clstr#1	Cluster Well
Peiz#4	Piezometer

Aquifer Codes

AHF	Above Hayward Fault
CF	Centerville-Fremont
C	Centerville
F	Fremont
D	Deep
N	Newark

Water Sample and Water Level Remarks

BRD	Buried
BOT	Bottles were not filled by owner/operator
C2T	Cap too tight
DA	Denied access (owner/operator refusal or locked gate)
EPD	Electrical power disconnected
NA	Not accessible (physically unable to access the well)
NMP	No measuring port
OBS@##	Obstruction at ## depth (feet)
OFF	Pump off therefore unable to obtain a water sample
PI	Pump inoperative
PWC	Pump with compressor
Run	Pump running
T	Sample obtained from tank
UTL	Unable to locate
UTM	Unable to measure depth to water
UTS	Unable to sample

Other Abbreviations

A	Flowing Artesian Conditions (Water level is above the ground surface)
CL	Chloride
TDS	Total Dissolved Solids
NO3	Nitrate
M	Maintenance Needed
ppm	Parts per million
ppt	Parts per trillion
MCL	Maximum Contaminant Level
NGVD	National Geodetic Vertical Datum of 1929
1929 WL	Water Level
--	Not measured or not sampled