

KERN COUNTY WATER AGENCY

Stuart T. Pyle Water Resources Center 3200 Rio Mirada Drive Bakersfield, California

Notice of **Special Board Meeting**

March 17, 2025

Conference Line: +1 (571) 317-3122
Access Code: 863-465-805#
https://global.gotomeeting.com/join/863465805

AGENDA

- I. Call to Order -3:00 p.m.
- II. Directors' Forum
- III. Public Comment
 Anyone may comment on any subject within Agency jurisdiction whether or not it is on the agenda. Time for such comment may be limited.
- IV. Report of the General Manager
- V. Public Hearing Improvement District No. 4 2024 Report on Water Conditions
- VI. Adjournment

DECLARATION OF POSTING: I declare under penalty of perjury, that I am employed by the Kern County Water Agency and that I posted the foregoing Agenda at the Agency Office on March 5, 2025.

Stephanie N. Prince, Board Secretary

Requests for a disability-related modification or accommodation, including auxiliary aids or services, in order to attend or participate in a meeting should be made to the Board Secretary in advance of the meeting to ensure availability of the requested service or accommodation.

IMPROVEMENT DISTRICT NO. 4 REPORT ON WATER CONDITIONS 2024





Directors:

Ted R. Page Division 1

Laura Cattani Division 2

Martin Milobar Vice President Division 3

Eric L. Averett President Division 4

Charles (Bill) W. Wulff, Jr. Division 5

> Royce Fast Division 6

Gene A. Lundquist Division 7

Thomas D. McCarthy General Manager

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January 31, 2025

Board of Directors Kern County Water Agency 3200 Rio Mirada Drive Bakersfield, CA 93308

Dear Members of the Board:

The Improvement District No. 4 Report on Water Conditions 2024, prepared as required by section 14.25 of the Kern County Water Agency (Agency) Act, is herewith filed with the Agency's Secretary of the Board of Directors (Board). This is the 52nd in a series required for the setting of groundwater charges for funding operating costs of Improvement District No. 4 (ID4) project facilities.

This report describes surface and groundwater conditions for ID4 and includes estimates of water supplies and requirements for the Water Year July 1, 2025 through June 30, 2026.

Also included is an operating cost projection through 2025. This projection and the recommendations indicate the desirability of establishing a groundwater charge for the 2025-26 fiscal year. The information for setting this charge is contained in this report and is recommended for consideration at the public hearing to be held on Monday, March 17, 2025 at 3:00 p.m. in the Stuart T. Pyle Water Resources Center Board Room, located at 3200 Rio Mirada Drive, Bakersfield, California, at which time all interested persons may be heard.

Respectfully submitted,

Thom D. Mchy

Thomas D. McCarthy, PE, PG

General Manager

I hereby acknowledge receipt of the Improvement District No. 4 Report on Water Conditions 2024 and will make it available for examination by the public.

Enclosure

Improvement District No. 4

of the Kern County Water Agency

2024 Board of Directors

Division 1 Ted R. Page

Division 2 Laura Cattani

Division 3 Martin Milobar

Division 4 Eric L. Averett

Division 5 Charles (Bill) W. Wulff, Jr.

Division 6 Royce Fast

Division 7 Gene A Lundquist

General Manager Thomas D. McCarthy

General Counsel James Ciampa, Lagerlof, LLP

2024 Urban Bakersfield Advisory Committee

The Urban Bakersfield Advisory committee (UBAC) is charged with making recommendations to the Kern County Water Agency (Agency) Board of Directors (Board) on the Improvement District No. 4 (ID4) budget, water supply and water quality plans, and use of ID4 facilities. UBAC consists of nine members and nine alternate members appointed by the Agency Board.

California Water Service Company

Tamara Johnson

Rafael Molina (Alternate)

City of Bakersfield

Tylor Hestor

Robert Szilagyi (Alternate)

City of Bakersfield

Kristina Budak

Daniel R. Maldonado (Alternate)

East Niles Community Services District

Tim Ruiz, Chairman David Snyder(Alternate)

North of the River Municipal Water District

Jim Tyack

Doug Nunneley (Alternate)

Kern County Water Agency Subcontractor

Oildale Mutual Water Company

Ryan Nunneley

Don Wattenbarger (Alternate)

Kern County Water Agency Board

Appointed Representative

Van Grayer - Vaughn Water Company

Table of Contents

| Definitions | 1 |
|---|----|
| Summary & Recommendations | |
| Purpose | |
| History of ID4 | 5 |
| Water Supply & Requirements | |
| Operations | 11 |
| Planning & Engineering | 13 |
| Henry C. Garnett Water Purification Plant | 15 |
| Education | |
| Financial Aspects of the Project | 19 |
| Appendix | 22 |

Definitions

Acre-Foot (af) - The quantity of water required to cover one acre of land to a depth of one foot (325,851 gallons).

Agency - Kern County Water Agency.

Agricultural Water - Water first used on land in the production of crops or livestock for market.

Aguifer - Porous water-bearing stratum or zone below the Earth's surface.

Article 21 - Non-Table A water that becomes available on an intermittent, interruptible basis.

Central Valley Project - In Kern County, this refers to the Friant-Kern Canal and its service area.

Customers - Based on the new treated water contracts.

DWR - California Department of Water Resources.

Enterprise Fund - General operating fund used to fund ID4 operations.

ID4 - Improvement District No. 4.

In-Lieu Recharge: Use of a surface water supply for purposes that would have otherwise required the extraction of groundwater.

MCL - Maximum Contaminant Level - The highest level of a contaminant that is allowed in drinking water. Primary MCLs are set as close to the PHGs (or MCLGs) as is economically and technologically feasible. Secondary MCLs are set to protect the odor, taste and appearance of drinking water.

MCLG - Maximum Contaminant Level Goal.

MGD - Million gallons per day.

M&I - Municipal and Industrial - Generally refers to water used for domestic purposes.

PHG - Public Health Goal - The level of a contaminant in drinking water below which there is no known or expected risk to health. PHGs are set by the California Environmental Protection Agency.

Potable Water - Water fit to drink pursuant to State and federal statutory requirements and aesthetic acceptability.

Project Water - Any combination of State Water Project water and additional water generated from the State Water Project, or from exchanges with Kern River interests or other sources.

Purveyor - Company or organization that provides a domestic water supply to a group of water users on a retail basis.

Small Groundwater-Producing Facility - Facility that has a discharge opening not greater than two (2) inches in diameter and does not provide water for an area in excess of 10,000 square feet.

SWP - State Water Project - In Kern County, its major feature is the Edmund G. Brown California Aqueduct.

Table A - The amount of water from the State Water Project allocated to ID4, according to the Agency's contract with the California Department of Water Resources.

TWCEP - Treated Water Capacity Expansion Project.

Very Small Groundwater-Producing Facility - Facility where, in the opinion of ID4 staff, the cost of collection would exceed the flat rate charge.

Water Year - The water year as referenced within this report refers to the first day of January through the end of December.

Summary & Recommendations

Based on the information compiled and presented herein, it has been determined that the amount of agricultural water withdrawn from the groundwater supplies of Improvement District No. 4 (ID4) for the year 2024 is estimated to be 2,801 acre-feet (af). The estimated amount of all other non-agricultural water withdrawn from the groundwater supplies of ID4 for the 2024 calendar year is 59,249 af (Table 6).

43,664 af (including Henry C. Garnett Water Purification Plant process) of treated surface water was delivered to water purveyors within ID4 during calendar year 2024 (Table 3). The Kern County Water Agency (Agency), on behalf of ID4, was obligated by contract to pay for 82,946 af of State Water Project (SWP) water in calendar year 2024 (Table 5). If the 2025 California Department of Water Resources (DWR) SWP allocation remains at 20 percent, Agency staff estimates that 16,589 af of water will be imported into ID4. Approximately 7,467 af of this water will be recharged as conveyance losses in delivering raw surface water to the Henry C. Garnett Water Purification Plant.

Agency staff developed a reserve policy to identify appropriate levels of accumulation within the ID4 Enterprise Fund. The total fund accumulation includes recommended reserve levels as summarized below.

| Reserve Designation | Balance |
|---------------------------------|-------------|
| Acquisition of Additional Water | \$1,000,000 |
| CVC Power Rate Stabilization | \$500,000 |
| Capital Replacement | \$1,500,000 |
| Catastrophe | \$2,000,000 |
| Groundwater Banking | \$500,000 |
| | |

It is recommended that charges for groundwater production in ID4, for the fiscal year commencing July 1, 2025 and ending June 30, 2026, be levied as follows:

- 1. Agricultural groundwater production: \$20 per af
- 2. All other groundwater production: \$40 per af
- 3. Small groundwater-producing facilities: \$40 (flat rate)
- 4. Very small groundwater-producing facilities: \$0 (no charge)

Purpose

This is the 52nd in a series of annual reports on water conditions within ID4. This report is intended to provide information upon which the levying of groundwater charges for Fiscal Year 2025-26 is based. The first report, issued on October 1, 1973, detailed events leading to the formation of ID4 and formulation of a project plan for importing water from the California Aqueduct. Appended to the first ID4 report on water conditions are the full texts of the formation resolution and a resolution declaring an intention to establish groundwater charges within ID4. Appended to the 1993 report are two resolutions that amended the formation of ID4 (prior Resolution No. 17-71) by raising the maximum permissible groundwater charge to \$40 per af, thereby raising the cost of treated water to a maximum level of \$38 in excess of the maximum groundwater charge levied in a given year. These actions were superseded when the Agency Board of Directors (Board) adopted the ID4 Financial Management Plan in March 1999. The Board adopted the Revised ID4 Financial Management Plan (Revised Financial Plan) in January 2011, which updated the financial requirements and reserve policy of ID4 as a result of the Treated Water Capacity Expansion Project (TWCEP). In April 2016, the Revised Financial Plan was updated again.

In December 1972, the Agency published a Notice of Intent to establish a groundwater charge in accordance with section 14.22 of the Agency Act 9098 (Act). Following the Act, as amended February 17, 1982, requires that [such notice]:

All water-producing facilities (wells) located within ID4 shall be registered with the Agency by the owner or operator.

The Agency Engineer shall prepare an annual report by February 1 of each year.

A public hearing shall be held on the third Monday in March regarding the Engineer's report and to receive public testimony thereon.

Within 30 days after the close of the hearing, the Board shall determine whether a groundwater charge will be levied, and if so, shall set the charge.

Each owner or operator of a well shall file with the Agency, on or before January 31 and July 31 of each year, a statement of total water production for the preceding six months and shall pay the groundwater charges as determined on the water production statement.

The Act requires a projection of estimates of water conditions and requirements for fiscal years commencing July 1. SWP operations are based on a calendar year. Local hydrologic conditions have a substantial impact on the ability of ID4 to receive and spread its SWP Table A water. Therefore, this report presents hydrologic and operational histories for back-to-back calendar years for use in projecting fiscal year supplies and requirements as required by the Act. Plate 1 identifies irrigated agriculture,

municipal and industrial (M&I) areas determined via February 2024 aerial imagery of Kern County. Table 9 lists the acreage devoted to each land use classification within ID4 since 1972.

History of ID4

General

ID4 was formed by a resolution adopted by the Agency Board on December 21, 1971 to provide a supplemental water supply for portions of the urban Bakersfield area through the importation of water from the SWP. In order to have a means for transporting this supplemental water to ID4 from the California Aqueduct, the ID4 project included ID4's participation in the Cross Valley Canal (CVC). Upon reaching ID4, the imported supply was to be delivered directly to recharge areas for direct replenishment of the underlying groundwater aquifer or to the Henry C. Garnett Water Purification Plant for treatment and delivery to in-district water purveyors.

Creation of ID4

The Agency was formed by Chapter 1003 of the Statutes of 1961. The primary purpose for creating the Agency was the establishment of a single entity in Kern County to negotiate and administer a water supply contract with the State of California for its SWP. In November 1963, to provide a firm water supply to supplement the estimated safe yield of the underground basin, the Agency contracted with DWR for a water supply for member units within Kern County, which included 77,000 af annually for ID4.

Subsequent amendments to the Act added provisions for the formation of improvement districts as needed to expedite solutions to specific problems relating to flood control, drainage or water supply. Activities leading to the creation of ID4 were initiated by the Agency Board by adoption of Resolution No. 25-70 on December 10, 1970, which outlined the need for such an improvement district. ID4 was formed by a resolution adopted by the Agency Board on December 21, 1971, for the purpose of financing the construction of a water purification plant, related water conveyance facilities and a portion of the cost of the CVC. Resolution Nos. 16-71 and 17-71 were adopted by the Agency Board on December 21, 1971, to finalize formation activity and establish the boundaries of ID4 as they exist today. On September 12, 1972, an election was held within ID4 authorizing \$17.5 million of general obligation bonds to construct ID4's share of the CVC and water purification facilities, making the contracted water supply available to the areas of need within ID4. Five water districts in the easterly portion of the San Joaquin Valley in Kern County shared in the construction of the CVC to convey their water to their respective districts.

Historic Conditions

Prior to construction of the CVC, the primary water supply for all uses within ID4 was groundwater. The groundwater basin underlying ID4 receives its recharge from the Kern River, which traverses ID4 from east to west, a distance of about 12 miles, through a wide, flat, permeable bed. Historically, flood flows that overflowed on lands on both sides of the river contributed further to groundwater recharge. Seepage and percolation through a number of unlined canals provided another source of recharge.

In the 1860s, when the first settlers arrived in Bakersfield, water levels were close to the surface. These levels declined from 40 to 90 feet by the 1940s and pumping lifts of 100 feet or more were common. Due to the declining water table, the quality of the groundwater in portions of ID4 degraded as poorer quality water moved into the area from adjacent lands.

Section 14.25 of the Act requires that, "... the Agency Engineer shall annually prepare a report which shall include, among other matters which the Agency may desire, information on the availability of surface and groundwater in the improvement district, the quantity of water needed for surface delivery and for replenishment of the groundwater supplies within the improvement district for the ensuing water year, the amount of water which the Agency is obligated to purchase for use in the improvement district during the ensuing water year and an estimate of the amount of groundwater to be extracted within the improvement district during the ensuing water year."

This report addresses establishing a groundwater charge for the fiscal year commencing July 1, 2025. However, the SWP operates on a calendar year basis. Water orders and payments for water are on the calendar year. Collection of tax funds by the County of Kern (County) and Agency bookkeeping are on a fiscal year basis. For this reason, many of the comparisons cited in this report refer to calendar year 2025, which overlaps the 2025-26 fiscal year.

Water Supply & Requirements

Availability of Surface Water and Groundwater

The annual surface water supply for ID4 includes a SWP Table A allocation of 77,000 af of M&I water and 5,946 af of firm agricultural water supplies for a total of 82,946 af. The annual Table A allocation received from the SWP is subject to reduction during drought conditions and regulatory requirements for environmental protection. Unless additional facilities are constructed to increase the SWP reliability, Table A allocation reductions will occur more frequently in future years.

The Board recognized the need for advanced planning to meet the water demand of a growing community and adopted Resolution No. 13-83 on June 23, 1983, stating that the Agency will do everything in its power to provide the urban Bakersfield area with additional potable surface water supplies. The Agency completed studies to determine the timing and extent of needs for such additional potable water supplies and the best way to meet these needs. Resolution No. 21-93, adopted on May 27, 1993, established policy for meeting future water supply requirements of ID4 and the joint City/County 2010 General Plan Area.

On May 26, 1988, the Board adopted Resolution No. 12-88 allocating to ID4 10,276 af of firm agricultural water and 1,554 af of surplus agricultural water. This resolution provides 35 cubic feet per second (cfs) of additional flow capacity in the California Aqueduct through Reach 16 to the forebay of the A.D. Edmonston Pumping Plant. This water had been previously contracted to Wheeler Ridge-Maricopa Water Storage District.

In 1996, the Kern Water Bank property was transferred to the entities participating in the Kern Water Bank Authority. As payment for its share of the Kern Water Bank, ID4 returned 4,330 af of its SWP firm agricultural Table A allocation to DWR. This reduction is reflected in current ID4 SWP Table A amounts.

On March 30, 2016, in response to the Sustainable Groundwater Management Act (SGMA) ID4 executed the Memorandum of Understanding to form the Kern River Groundwater Sustainability Agency (Kern River GSA) with the City of Bakersfield and Kern Delta Water District and developed a Groundwater Sustainability Plan (GSP) to cooperatively manage shared groundwater resources in a sustainable manner. The Kern River GSA GSP Area covers 361 square miles, about 13 percent of the 2,834-mile Subbasin and is cooperatively managed by Kern River GSA member agencies. Local surface water from the Kern River, imported water from the State Water Project (SWP), recycled water and other surface water sources are used to support beneficial uses. These surface water sources are supplemented by groundwater and managed conjunctively throughout the GSP Area.

The Kern River GSA GSP was submitted in January 2020 in coordination with four additional GSPs that collectively cover the entire Kern County Subbasin, the largest groundwater subbasin in California. The Kern River GSA GSP was amended in July 2022 in response to comments submitted by DWR. On March 2, 2023, DWR notified the GSAs in the Kern County Subbasin sufficient actions to correct previously identified deficiencies had not been taken and recommended the amended GSPs be determined inadequate. After receipt of DWR's notification, the Kern River GSA coordinated with other Kern County Subbasin GSAs to develop actions to correct the identified deficiencies while also preparing for a State Water Resources Control Board Probationary Hearing. In April 2023, the Kern River GSA continued to coordinate with GSAs within the Kern County Subbasin to complete and submit the Kern County Subbasin Groundwater Sustainability Plans Annual Report for Water Year 2022. The Kern River GSA continued implementing its GSP by measuring and recording depth-to-groundwater levels in 39 monitoring wells within its monitoring network and implementing GSP projects and management actions.

A revised 2024 Draft GSP for the Kern County Subbasin was submitted in May 2024. The State Water Resources Control Board (SWRCB) proceeded with public workshops based on the previously published plans in August 2024. The Kern County Subbasin also presented three public workshops based on the revised plan to educate the public and receive feedback on the plan. Also, SWRCB Board members and staff were given tours of the Subbasin hosted by the Kern County Subbasin. The revised 2024 Draft GSP was coordinated among and approved by the subbasin's 20 GSAs to develop a comprehensive plan that addresses identified deficiencies and was submitted to the SWRCB in December 2024 for review. SWRCB staff maintained some deficiencies were still not adequately addressed and issued a formal probationary hearing notice for February 20, 2025, to consider placing the subbasin in probation. The Kern County Subbasin GSAs continue to focus on the future of sustainable groundwater management in the Subbasin.

On October 10, 2017, the Urban Bakersfield Advisory Committee (UBAC) expressed support to the Agency Board that ID4 continue to participate in California WaterFix (WaterFix) planning and design activities. In January 2019, Governor Newsom announced during his State of the State address that he did not support the WaterFix as configured but did support a one tunnel conveyance project. In May 2019, DWR rescinded its approvals of the WaterFix and began planning for a single tunnel option known as the Delta Conveyance Project (DCP). On November 16, 2020, UBAC recommended to the Agency Board that ID4 fund ID4's share of DCP environmental review, planning and design costs at a 100 percent level of 82,946 af.

In 2024, DWR released the updated cost estimate for the DCP. The total project cost for the 6,000 cubic feet per second Bethany Reservoir Alignment is \$20.12 billion in 2023 dollars. DWR is continuing to take the next steps to pursue numerous state and federal permits for authorizations. The final

Environmental Impact Report was completed in compliance with CEQA and certified on December 21, 2023. The final Environmental Impact Statement (EIS) is expected to be released in early 2025.

Other supplies utilized to maximize replenishment operations in normal to wet years include interruptible water from the SWP (Article 21 water), water that is surplus to the Central Valley Project, water available from the Friant-Kern Canal and Kern River water. The amounts of 2024 SWP Table A water received are shown in Table 1, together with adjustments for exchanges and purchases. Actual historic deliveries are shown in Table 5. ID4 actively negotiates exchanges with Kern River interests for a supply of Kern River water.

Kern River supplies are delivered to agricultural water users in areas served by the City and Kern Delta Water District (Kern Delta) within ID4. Most of these agricultural service areas have dual supply systems allowing for the use of groundwater in dry years and Kern River water in wet years. Kern Delta supplied 2,522 af of Kern River water for agricultural use within ID4 in 2024.

Treated municipal effluent irrigated agricultural land in the southeast area of ID4. City and County sewage treatment plants in the southeast portion of ID4 treat and process wastewater, which is applied to agricultural areas south of Brundage Lane and east of Cottonwood Road.

Water Needed for Surface Delivery and Groundwater Replenishment

In 2025, ID4 needs about 50,000 af for direct deliveries to the purveyors, with an additional 26,400 af for canal losses and internal purification plant processing to allow for a maximum, non-interruptible supply to the Henry C. Garnett Water Purification Plant. Water needed for surface delivery will be SWP water contracted for by the Agency on behalf of ID4 as described earlier in this report, and/or Kern River water obtained by purchase or exchange and/or water recovered from ID4's banking projects to augment surface supplies.

SWP Table A water supplies not required for the Henry C. Garnett Water Purification Plant are normally utilized for groundwater recharge. As of January 2025, the Kern River watershed is projected to be about 75 percent of normal. SWP supplies are projected to be at least 20 percent of SWP Table A water amounts, which results in an allocation to ID4 of 16,589 af. This supply is insufficient for full deliveries from the Henry C. Garnett Water Purification Plant. Additional supplies will be delivered from resources carried over from 2024. In the past, natural replenishment of the basin's groundwater supply derived primarily from Kern River flows. When a dry year follows a period of heavy replenishment, rapid declines in groundwater levels adjacent to the river are noted as mounds dissipate.

Water Obligated for Purchase by the Agency

The Agency was obligated to pay for 82,946 af on behalf of ID4 in 2024.

Groundwater Conditions

Data collected by Agency staff indicates an average increase in groundwater levels of 5.9 feet in 2024. In previous years, the change in groundwater levels has been calculated from contour maps generated from data collected in the fall (September through October). Comparing fall data can produce an erroneous interpretation in the calculation due to the large amount of groundwater extraction occurring in and adjacent to ID4 during the time it was collected. A more accurate calculation may be made by comparing data from mid-winter through early spring (January through March), due to the decrease in groundwater demand (pumping). Calculating the change in groundwater levels using data collected in the spring was instituted in 2011 (see Figure 1).

The average depth is weighted to account for the non-uniform density of monitoring wells within three distinct areas of the groundwater service area of ID4. These three areas consist of the area approximately north of Rosedale Highway, the area approximately south of Stockdale Highway and the Kern River area. These three areas are considered separately due to varying groundwater recharge practices, different groundwater extraction demands and geological considerations with respect to the relative ease of subsurface migration of groundwater. Plate 6 and Plate 7 depict the elevation of water in wells and depth to water in wells, respectively.

Estimated Groundwater Extractions

Groundwater extraction is closely related to land use within ID4. Agency staff has conducted annual land use surveys since 1972. Data of historical land use within ID4 is shown in Table 9. The estimated amount of groundwater extracted in 2024 was 62,050 af (Table 6). Total reported groundwater production since 1976 is 3,870,122 af (Table 6).

Groundwater Replenishment

ID4 provides a treated surface water supply to replace a portion of groundwater pumping within its boundaries. The replaced pumping, or in-lieu recharge, combined with direct recharge of imported SWP or exchanged Kern River water replenishes the underground aquifer. Recharge made possible by water exchanges with Kern River interests commenced in 1971. Recharge using SWP water commenced in 1975 with the completion of the CVC. Actual amounts spread may vary from about 8,000 af of unavoidable seepage losses to over 90,000 af, depending on local and SWP water conditions and regulation afforded by exchanges.

Since 1971, ID4 has recharged 1,980,862 af. The SWP Table A water available for recharge or total in the same period was 987,841 af. The difference of 994,735 af was obtained from exchanges with Kern River or Friant-Kern Canal interests and banked water imports.

In-District direct recharge for 2024 was 11,328 af. The final SWP Table A water allocation was 40 percent and the Kern River runoff was 99 percent. (See Table 4 for detailed information.)

Operations

Banking

Kern Water Bank

ID4 has a 9.62 percent interest in the Kern Water Bank recharge and recovery facilities as a result of the 1996 agreement among project participants, the Agency and DWR. The number of recovery wells currently available is 88, yielding a total annual recovery capacity of approximately 180,000 af. The maximum annual recharge capacity of the project is about 600,000 af. ID4 did not recover or recharge in the Kern Water Bank facilities in 2024.

Pioneer Project

ID4 has a 10 percent interest in the Agency-owned Pioneer Project recharge and recovery facilities as a result of the 1998 Pioneer Participation Agreement. The total number of completed wells on the project is 38, which yield a total annual recovery of approximately 100,000 af. The maximum annual recharge capacity of the project is about 250,000 af. ID4 recharged 147 af in the Pioneer Project facilities in 2024.

ID4 Recovery Program

ID4 currently owns four wells on the City's 2800 Acre Recharge Facility, located west of Allen Road and south of Stockdale Highway. These wells were drilled and cased in 1999 and remained idle from 2000 through 2002. In 2003, the project was completed with the installation of pumps, motors and pipelines. ID4's overall recovery capacity for this project is 20 cfs, or 12,000 af annually. ID4 recharged 697 af in the 2800 Acre Recharge Facility in 2024.

Allen Road Well Field Complex

ID4 owns and operates seven wells located along the north side of the Kern River between Allen Road and Coffee Road. ID4 can use the wells to enhance potential exchanges or for water quality benefits for the Henry C. Garnett Water Purification Plant. In 2024, ID4 recharged 2,731 af in the Allen Road Well Field Complex.

Improvement District No. 4 - Rosedale-Rio Bravo Joint Use Recovery Program

The Rosedale and ID4 Joint Use Groundwater Recovery Program (JURP) facility includes seven recovery wells with a total capacity of 45 cfs. ID4 operates this well field to recover banked water for two of Rosedale's partners, Kern-Tulare Water District (Kern-Tulare) and Arvin-Edison Water Storage District, with a maximum annual recovery capacity of 19,000 af. Recovery for Rosedale's partner, Arvin-Edison Water Storage District, totaled 1,740 af in 2024. The JURP Agreement also provides ID4 with the ability to exchange surface water for an equal amount of banked water in the JURP area. In 2024, ID4 did not

recover or recharge in JURP.

Exchanges

Exchanges of SWP water for Kern River and Friant-Kern Canal water will typically improve the quality of raw water delivered to the Henry C. Garnett Water Purification Plant and water spread for replenishment of the groundwater aquifer. Also, there are savings to ID4 in reduced CVC pumping costs when the exchange entity can accept return of ID4 water in the California Aqueduct, or at locations west of the Henry C. Garnett Water Purification Plant. These power savings occur when ID4 does not have to pump the water easterly from the SWP through the seven lift stations on the CVC to bring it into ID4. The current power costs averaged for the year are \$6.21 per af at pumping plants one through seven, resulting in a total average cost of approximately \$43.50 per af when water is delivered the full distance from the California Aqueduct to the terminus of the CVC Extension. An activity table depicting exchange activity for 2024 is shown in Table 1.

In 2024, ID4 exchanged water with several entities to benefit all parties by saving costs, conserving supplies and keeping water quality consistent.

Summary of Groundwater Replenishment Activities

The total amount of direct, in-lieu and Kern River recharge incidental to ID4 operations since 1971 is shown in Figure 1. ID4 recharge in banking programs outside of ID4 boundaries, which also benefits ID4, is also included.

| ID4 In-District Direct Recharge (Table 4 – Direct Recharge) | 1,978,517 |
|---|-----------|
| Treated Water Supply (Table 3 – In-Lieu Recharge) | 1,444,575 |
| Subtotal ID4 In-District Groundwater Replenishment Activities | 3,423,092 |
| ID4 Banked Water (Table 4) | 494,952 |
| Total ID4 Project Water Supplies | 3,918,044 |

Recharge of water incidental to the ID4 Project effort also occurs during Kern River flood years and through conveyance of Kern River water to others within ID4 boundaries.

Planning & Engineering

ID4 Construction & Maintenance Projects

The Engineering and Groundwater Services Department completed several projects for ID4 in 2024. These projects were successfully completed with coordinated assistance from ID4 Operations and Maintenance staff, purveyors and adjacent water districts, vendors, contractors and consultants. These projects include:

- Cross Valley Canal Extension Lining Project Pool No. 8
 - o Install permanent dewatering system on east half of Pool 8
 - Reconstruct canal prism (earthwork)
 - Place concrete liner
 - Levee road improvements
 - o Install electrical conduit for River Turnout No. 4
- Slide Gate Installation for the Temperature Equalization Pond (TEP) Outlet Structure Project
 - Dewater the TEP
 - o Remove and dispose of existing gates and actuators
 - Install new gates and actuators
 - Testing and inspection
 - o Fill the TEP and test water quality
- Sediment Removal for the TEP and Calloway Canal Extension Project
 - o Remove approximately 2,000 CY of sediment from the TEP
 - o Remove approximately 1,000 CY of sediment from the Calloway Canal Extension
 - Clean up disposal site
- Outlet Structure Structural Integrity Analysis
 - o Evaluate and assess existing structure, concrete, and slide gates
- Oswell Regulating Facility Recoating Project
 - o Recoat interior shell and floor of the 6.8 MG tank
 - o Replace baffle curtains and cathodic protection system for the 6.8 MG tank
 - Recoat exterior of all facilities
- Removal of Precipitated Solids from Drying Bed Nos. 8 and 9 Project
 - o Remove and stockpile approximately 3,000 CY from Drying Bed Nos. 8 & 9
 - o Place wire mesh and straw wattles around perimeter of stockpiles
- Disposal of Precipitated Solids from Drying Bed Nos. 8 and 9 Project
 - Load, transport, and unload approximately 3,000 CY of stockpiled precipitated solids to the Bena Landfill
- North and East Pipeline Integrity Project
 - Jeffrey Street Potholing Project
 - Northwest Feeder Potholing Project
- High Speed Rail Project

- o Potholing and utility location
- ARC Flash Study
 - Update and complete engineering study at the HCGWPP, ID4 Well Sites, and JURP Well
 Sites
- Sedimentation Basin No. 3 Conditional Assessment and Feasibility Study Project
- Northwest Feeder Variable Frequency Drives Replacement and Facilities Upgrades Project
 - Evaluate the condition of the existing equipment and facilities, including the NWF VFDs,
 the air conditioning units, and the equipment building
 - o Prepare analysis report
- HCGWPP Electrical Service Entrance Load Bank Battery Testing and Analysis
 - o NERC load testing on 120V flooded system
 - o Provide analysis and associated report with results and recommendations

Henry C. Garnett Water Purification Plant Operations

In 2024, the Henry C. Garnett Water Purification Plant delivered 41,430 af of water for domestic consumption. This represents a 3 percent increase when compared to the amount delivered in 2023 (40,176 af). Additional water was used for filter backwash, plant process use, sludge discharge and evaporation. The peak production flow occurred on July 25, 2024 and amounted to 59 million gallons per day (mgd). This represents 57 percent of the expanded maximum permitted flow of 103 mgd. The Henry C. Garnett Water Purification Plant did not operate at flows greater than design capacity in 2024.

The Henry C. Garnett Water Purification Plant's chemical costs were 17 percent more in 2024 than 2023 (\$1,972,232 in 2024 and \$1,635,630 in 2023). When compared to 2023, incremental costs have increased by approximately \$6.89 per af of water delivered for domestic purposes. This change is a result of changes in treated water chemical pricing and increased deliveries. In 2024, chemicals consisting of sodium hypochlorite, aluminum sulfate, sodium hydroxide, cationic polymer, powdered activated carbon, zinc orthophosphate and sulfuric acid were used for water treatment processes. A detailed accounting of chemical consumption and a complete breakdown of the 2023 and historical operating costs are shown in Table 10. A history of water use by source is in Table 3. Agency staff continued to use copper sulfate instead of potassium permanganate for algae control in the temperature equalization pond. In 2024, the utilization of copper sulfate as an oxidant continued to show a significant cost savings compared to potassium permanganate, with no impact to water quality.

Agency staff also conducted semi-annual well measurements within ID4. This included static water level monitoring of hundreds of wells in the metropolitan Bakersfield area.

Maintenance

Agency staff provided support and coordination for ID4 maintenance and construction projects to continue reliable and efficient operations, and to minimize treatment and distribution facility outages. Routine maintenance projects included drafting and implementing new preventive maintenance procedures and safety protocols, annual maintenance to Henry C. Garnett Water Purification Plant basins and treated water distribution pumps, annual cross connection control survey and backflow testing, vegetation removal and landscaping at various facilities, dewatering and cleaning of various storage tanks, oil sampling for pad-mounted electrical transformers, inspections of various facilities, updating the annual road permit with the City of Bakersfield and replacement of filter anodes as needed.

Agency staff also provided support for non-routine maintenance projects including:

- Interior lining project for the Oswell 6.8 mg storage tank
- Exterior coating project at the Oswell facility
- Actuator replacements for the Train A & B filter valves
- Installation of new sodium hypochlorite feed pumps and controls for Group "A"
- Roof replacement of the Motor Control Center (MCC) building at the Oswell facility
- Battery load bank testing for the Electrical Service Entrance (ESE) facility
- Inverter repairs for the Solar Photovoltaic facility
- Pad mount transformer replacement for the JURP-05 well site
- Fuel polishing services for the ESE generator diesel tank
- Traveling screen overhaul for the Calloway extension inlet
- Arc Flash label installation and electrical distribution panel and breaker upgrades at the HCGWPP
- ARMCO gate drive nut replacement

Laboratory

Title 22 and constituents of concern analyses were performed on the Henry C. Garnett Water Purification Plant treated and source water. Treated and source water samples were also analyzed quarterly for 1,2-dibromomethane, 1,2-dibromo-3-chloropropane, volatile organic chemical (VOC), general mineral, physical, metal and inorganic nonmetallic constituents, and monthly for general mineral, physical and inorganic nonmetallic constituents.

The distribution system was monitored weekly for coliform bacteria and physical constituents, monthly for total organic carbon (TOC) and total trihalomethanes (TTHM), and quarterly for regulated haloacetic acid (HAA5), TOC and TTHM constituents. Treated water was monitored every other week, and six distribution system sample locations were monitored twice a year for pH, calcium, orthophosphate and zinc as requested by the State Water Resources Control Board, Division of Drinking Water (DDW) due to corrosion control treatment in the distribution system.

Kern River sanitary survey samples were collected quarterly and analyzed for general mineral, physical, coliform bacteria, TOC, dissolved oxygen and VOC constituents. Lake Isabella was monitored for VOCs following all holiday weekends, and Lake Ming was monitored periodically for VOCs following any drag boat races as requested by DDW.

Taste and odor samples were analyzed weekly in the warmer months and monthly in the cooler months to detect and avoid odor incidents. Multiple batches of copper and microcystin samples were analyzed because of aquatic growth control measures occurring in the temperature equalization pond. VOC, motor oil, diesel and glycol samples were collected and analyzed in response to several vehicle crashes in the Kern River and a diesel contamination event from an unidentified source.

Education

ID4 has historically participated in funding a comprehensive Water Education Program to educate local students about Bakersfield's water supplies, the importance of water and water use efficiency. The goal of the Water Education Program is to provide the public with the opportunity to make informed decisions when it comes to water use and conservation. The ID4 program incorporates teacher workshops, community events, videos, gradelevel water education units and materials, and assemblies and classroom presentations. All curricula and instruction offered through the Water Education Program support the Common Core Standards and Next Generation Science Standards for grades Kindergarten-12th grade.

Water Education Program Components

Project WET – Project WET (Water Education for Today) promotes the awareness, appreciation, knowledge and stewardship of water resources. ID4 is a facilitator for Project WET, and annually hosts two workshops. In the 2023-2024 school year, a total of 35 teachers from ID4's service area attended the Project WET teacher workshops. The workshops feature insight into both historical and current water challenges and opportunities and integrates inquiry-based learning. Each teacher received a new Project WET 2.0 Guide (Guide) and materials to conduct activities in their classrooms.

Community Events – ID4 participates in community events, presenting age-appropriate activities and materials. Topics include Bakersfield's water resources, careers in water and current educational offerings. In the 2023-2024 school year, approximately 3,170 community members were reached.

5th Grade Water Cycle Presentation, **The Incredible Journey** – This Project WET activity is conducted in the classroom. As part of the lesson, students role-play as a water molecule, which helps them conceptualize the water cycle as more than a two-dimensional path. At the conclusion of the lesson, the students will have made a water cycle bracelet that describes their "Incredible Journey" as a water molecule. In the 2023-2024 school year, over 1,330 students within ID4's service area participated in this activity.

Water Education K-6th Grade Water Education Units and Presentations – ID4 offers the following Common Core and Next Generation Science Standards-based grade-level water education units and presentations that address Bakersfield's State and local water supplies, the Henry C. Garnett Water Purification Plant, local groundwater banking programs and water conservation.

Kindergarten Program – "Ruby the Radish" – Urban Water Use and Water Conservation Story — This inquiry-based water education unit teaches kindergarten students in Bakersfield the importance of water and its conservation. Students learn about the water cycle and the different states of water as a basis for this understanding. In addition,

students will learn that plants require water to grow. In the 2023-2024 school year, 129 students within ID4's service area participated in this program.

1st Grade Program – "Suzie-Q's Water Awareness Campaign" – Urban Water Use and Water Conservation — This water education unit teaches first-grade students in Bakersfield the importance of water and its conservation.

Students are introduced to their water sources and how they use water at home and school to gain a deeper understanding of this topic. In the 2023-2024 school year, 722 students within ID4's service area participated in this program.

2nd Grade Program – "Casey's Incredible Journey" - Water Purification and Water Conservation — This inquiry-based water education unit teaches second-grade students how water is cleaned and purified at the Henry C. Garnett Water Purification Plant, where their water comes from, water conservation and that seeds need water to grow. In the 2023-2024 school year, 956 students within ID4's service area participated in this program.

3rd-4th Grade Program – Uncover the Facts! Metropolitan Bakersfield's Water Story — Water in California is the theme explored in this exciting standards-based water education unit that highlights Bakersfield's rich water history and how water is moved throughout the State of California. In the 2023-2024 school year, 2,145 students within ID4's service area participated in this program.

5th-6th Grade Program – H2O & You - Exploring Metropolitan Bakersfield's Water Supplies — This exciting standards-based program explores the water cycle, surface water supplies, and groundwater, as well as how water is purified at the Henry C. Garnett Water Purification Plant. In the 2023-2024 school year, 2,223 students within ID4's service area participated in this program.

Financial Aspects of the Project

ID4 is an original participant in the construction of the CVC to convey water to the Henry C. Garnett Water Purification Plant and to the Kern River for groundwater replenishment. CVC construction was completed in 1976, and on February 29, 1980, Fox & Company completed a final construction cost audit. The audit was reviewed and accepted by the Agency Board. The total construction cost of the CVC was \$22,777,873, of which ID4's share was \$6,833,362.

Also, Fox & Company audited the ID4 construction fund to include the original Henry C. Garnett Water Purification Plant and treated water pipelines. This audit was completed on June 30, 1982. Updated construction costs since the two Fox & Company audits are summarized as follows:

CVC (ID4 share) \$7,132,899

Purification Plant and Conveyance Facilities \$25,755,025

\$32,887,924

Annual Costs and Revenue

Total

Cash flow for the fiscal year ending June 30, 2024, for all ID4 funds together with a forecast of cash flow conditions for the next fiscal year, is shown in Table 11. These projections are subject to change based on capital projects deemed necessary to the continued operation of ID4. The Agency Board adopted Resolution No. 14-16, which incorporated the Revised Financial Plan and established groundwater charges as well as a long-term surcharge on treated water rates.

ID4 continues to look for ways to provide a supplemental water supply to metropolitan Bakersfield in a cost-effective manner. Under action taken by the Agency Board in 1996, Zone of Benefit credits are authorized to be used for the purchase of additional water from the State or federal projects. This measure was taken to mitigate the inability of the SWP to deliver 100 percent of Table A amounts annually. ID4 also works to reduce water pumping costs by exchanging SWP water for Friant-Kern and Kern River water. An optimum exchange can eliminate power costs for CVC pumping and potentially lessen the quantity of chemicals applied in the purification process. Chemical costs are affected substantially by the source and condition of the raw water. The availability of most exchanges cannot be predicted; therefore, power and chemical costs are budgeted conservatively by assuming use of the CVC for all but those exchanges currently in effect.

ID4 Funds

ID4 has four income sources managed within three fund accounts:

- 1. The ID4 Bond Fund was established to account for the receipts and disbursements of money needed to comply with the interest and redemption requirements of the bonds issued to construct the TWCEP. This fund will continue until the settlement of the debt incurred to construct the TWCEP. The interest and principal payments are being paid through a Capital Facilities Charge (CFC) as provided by the Agreements.
- 2. Zone of Benefit No. 7 was established in accordance with the SWP contract with the Agency dated November 15, 1963 to account for property taxes collected and interest earned on money held. Zone of Benefit No. 7 is used for the purchase of State or federal water supplies. The 2023-24 tax rate (per \$100,000) is \$44.06.
- 3. The Enterprise Fund is an operations fund established to account for money necessary for the operation of the Henry C. Garnett Water Purification Plant, the treated water distribution system, groundwater replenishment and ID4's share of CVC costs. Expenditures are primarily for current day-to-day operating expenses and operating equipment. Revenues are recorded by source, principally water sales, groundwater pumping charges and interest earned on reserves. Revenues are derived from groundwater and treated water charges. The 2023-24 charges for each water type were \$19.50 per af for produced agricultural groundwater and \$39 per af for all other types of produced groundwater, and sales of treated water were at the rate of \$195 per af.

ID4 has no other regular revenue sources other than those described above. Money from the Enterprise Fund can be transferred into either or both of the other two funds to reduce the ad valorem tax burden, but excess revenues collected in the ID4 Bond Fund and Zone of Benefit No. 7 fund must remain in those funds. The total fund accumulation includes recommended reserve levels of about \$1.5 million for capital replacement, \$0.5 million for CVC power reserves, \$2.0 million for catastrophic needs of ID4, \$1.0 million for acquisition of additional surface water supplies and \$0.5 million for groundwater banking. The present level of groundwater charges and sales of treated water are projected to yield approximately \$12.0 million.

Well Registration and Collection of Groundwater Charges

Wells within ID4 are registered pursuant to Section 14.24 of the Act (Table 7).

On July 1, 2024, agricultural groundwater charges were \$20 per af, and charges for all other groundwater extractions were \$40 per af. For administrative convenience, a flat rate annual charge of \$40 was levied for small groundwater-producing facilities and no charge was levied for very small groundwater-producing facilities where the cost of collection would exceed the flat rate charge.

ID4 Financial Management Plan

On April 28, 2016, the Board adopted the Revised Financial Plan, which updated the previous versions of the ID4 Financial Management Plan. The Revised Financial Plan provides details on the principles and practices to be followed in administering the financial resources of ID4. The Revised Financial Plan identifies the need for a long-term surcharge on treated water rates to address increasing costs associated with operation of the Henry C. Garnett Water Purification Plant and to meet ID4's debt repayment obligation. With the adoption of the Revised Financial Plan, the Board authorized the setting of rates and charges to ensure sufficient revenues to continue the ID4 project.

Refinancing of General Obligation Bonds

In November 2006, the Agency successfully retired the remaining balance of its \$17.5 million general obligation bond used to construct the Henry C. Garnett Water Purification Plant, the treated water distribution system and ID4's share of the CVC.

Sale of Certificates of Participation for Capital Projects

In 2006, ID4 issued \$27 million in water revenue Certificates of Participation (COP) to fund \$22.5 million of the TWCEP costs and refund the 1999 COPs. In 2008, ID4 issued an additional \$121 million in water revenue COPs to fund capital improvement projects associated with the TWCEP. In 2016, ID4 issued \$89 million in water revenue Refunding Bonds, which resulted in a total net present value of \$12 million in savings, by refunding the outstanding 2006 tax-exempt and taxable COPs, Series 2006A and 2006B, respectively, as well as the outstanding 2008 tax-exempt COPs, Series 2008A. In 2006, ID4 also entered into a low-interest loan agreement with the DWR Safe Drinking Water State Revolving Fund (SDWSRF) Program for \$2.82 million to fund the Oswell Bypass Project. The SDWSRF loan payments became due in 2010 and will retire in 2030. The SDWSRF loan is a parity obligation to the 2006 COPs.

Money to be used for the repayment of debt is provided for in the Agreements. The Agreements, and subsequent project agreements, include a contract provision for the biannual payment of a CFC to charge purveyors for all capital facility costs, including principal, interest and other costs associated with repayment of any debt incurred in the development and construction of the TWCEP. The Agreement will be effective through 2035, or until the COPs and any additional financing for the TWCEP are paid in full. Under the Agreements, each purveyor is responsible for its proportionate share of capital costs. The CFC is considered a "general obligation" expense of the purveyor, regardless of the amount of water delivered or whether the capacity is required for delivery of the purveyor's water.

Appendix

Table 1 - 2024 ID4 Water Supplies, Exchanges and Deliveries

All units in acre-feet unless otherwise noted.

| ID4 SUPPLIES | SWP ¹ | SWP by Exchange ² | Kern River | SWP by Exchange ³ | Bank Recovery | Total |
|------------------------------|------------------|---------------------------------|---------------|------------------------------|------------------|---------|
| SWP (M&I) | 30,746 | | | | | 30,746 |
| SWP (Ag) | 2,378 | | | | | 2,378 |
| Carryover from 2023 | 32,461 | | 21,522 | | | 53,983 |
| CVC Dewatering (March) | 45 | | | | | 45 |
| Subtotal | 65,630 | - | 21,522 | - | - | 87,152 |
| ID4 EXCHANGES / OBLIGATIONS | | | | | | |
| Buena Vista WSD (TRF 24-014) | (4,000) | | | | 4,000 | - |
| Buena Vista WSD (TRF 24-030) | (30,000) | 30,000 | | | | - |
| California Aqueduct | (5,000) | | | | | (5,000) |
| KCWA Op Ex | (5,350) | | 5,350 | | | - |
| Total Exchanges/Obligations | (44,350) | 30,000 | 5,350 | - | 4,000 | (5,000) |
| Available Supplies | 21,280 | 30,000 | 26,872 | - | 4,000 | 82,152 |

acre-feet

| | SWP ¹ | SWP by | Kern | SWP by | Bank | |
|---|------------------|-----------------------|--------|-----------------------|----------|--------|
| ID4 DELIVERIES | SWP | Exchange ² | River | Exchange ³ | Recovery | Total |
| Henry C. Garnett Water Purification Plant | 5,627 | 26,835 | 11,202 | | | 43,664 |
| In-District Transportation Recharge | 150 | 3,165 | 5,282 | | | 8,597 |
| In-District Direct Recharge | 2,071 | | 660 | | | 2,731 |
| Out of District Losses | 50 | | 3,437 | | | 3,487 |
| 2800 AC | 697 | | | | | 697 |
| Kern Water Bank | - | | | | | - |
| Pioneer Project | 147 | | | | | 147 |
| Carryover to 2025 | 12,538 | | 6,291 | | 4,000 | 22,829 |
| Total Deliveries | 21,280 | 30,000 | 26,872 | - | 4,000 | 82,152 |

Table 2 - ID4 Water Recharge and Recovery Asset Summary

All units in acre-feet unless otherwise noted.

| | ID4 | Annual Recharge | Annual Recovery | ID4 Recharge | ID4 Recovery | Summary of Banked |
|---|----------|--------------------|-----------------------|-----------------|-----------------|----------------------|
| Groundwater Banking Facility | Interest | Capacity | Capacity ⁶ | Capacity | Capacity | Water |
| Kern Water Bank | 9.62% | 600,000 | 180,000 | 57,720 | 17,316 | 188,202 |
| Pioneer Project | 10% | 250,000 | 100,000 | 25,000 | 10,000 | 42,233 |
| ID4 Banking Wells ⁴ | 100% | | 12,000 | | 12,000 | 5,729 |
| ID4/Rosedale Joint Use Recovery Project 5 | 22.2% | | 21,000 | | 5,940 | 3,356 |
| Allen Road Well Field | 100% | | 36,000 | | 36,000 | 130,216 |
| Total | | 850,000 | 349,000 | 82,720 | 81,256 | 369,736 |

¹ SWP allocation for 2024 was 40 percent.

 $^{^{2}\,}$ SWP water by exchange with Kern River interests.

³ SWP water by exchange with Friant-Kern interests.

⁴ ID4 recovery wells and banked water in City of Bakersfield's 2800 Acres Recharge Facility.

⁵ First priority for 10 cfs of recovery capacity.

⁶ Recovery capacity varies with respect to depth to groundwater.

Table 3 - ID4 History of Purification Plant Water Use by Sources

Units in acre-feet unless otherwise noted.

| Tuble 5 | iD4 History of Purificatio | minume water ose by | Units in acre-feet unless otherwise note Total | | | | |
|--------------|----------------------------|--------------------------|---|--------------------------|-----------|---------------------|--|
| | | State Water Project | | State Water Project | | Treated Water | |
| Year | State Water Project | by Exchange ¹ | Kern River | by Exchange ² | Recovered | Supply ³ | |
| 1975 | | , , , | | ., | | - | |
| 1976 | | | | | | - | |
| 1977 | 15,950 | | | | | 15,950 | |
| 1978 | 8,329 | 15,607 | | | | 23,936 | |
| 1979 | 5,347 | 21,078 | | | | 26,425 | |
| 1980 | 4,288 | 18,551 | | | | 22,839 | |
| 1981 | 20,457 | 3,407 | | | | 23,864 | |
| 1982 | 3,584 | 21,488 | | | | 25,072 | |
| 1983 | 1,287 | 23,317 | | | | 24,604 | |
| 1984 | 21,068 | 5,200 | | | | 26,268 | |
| 1985 | 942 | 23,331 | | | | 24,273 | |
| 1986 | 1,487 | 22,967 | | | | 24,454 | |
| 1987 | 1,974 | 23,534 | | | | 25,508 | |
| 1988 | 7,971 | 21,360 | | | | 29,331 | |
| 1989 | 11,844 | 15,593 | | | | 27,437 | |
| 1990 | 24,728 | 2,694 | | | | 27,422 | |
| 1991 | 2,467 | 9,146 | | | 7,719 | 19,332 | |
| 1992 | 6,830 | 8,442 | | | 12,241 | 27,513 | |
| 1993 | 4,653 | 23,414 | | 2,883 | 12,211 | 30,950 | |
| 1994 | 4,030 | 20,680 | | 715 | 4,186 | 29,611 | |
| 1995 | 2,528 | 28,883 | | 713 | 222 | 31,633 | |
| 1996 | 24 | 28,527 | | 1,387 | 222 | 29,938 | |
| 1997 | 24 | 25,416 | | 7,980 | | 33,396 | |
| 1998 | | 26,510 | | 1,906 | | 28,416 | |
| 1999 | | 28,340 | | 1,500 | | 28,340 | |
| 2000 | 132 | 29,023 | | | | 29,155 | |
| 2001 | 3,503 | 7,579 | | | 15,810 | 26,892 | |
| 2002 | 5,228 | 21,327 | | | 1,194 | 27,749 | |
| 2003 | 9,826 | 14,011 | | | 2,111 | 25,948 | |
| 2004 | 4,282 | 14,419 | | | 6,693 | 25,394 | |
| 2004 | 1,967 | 24,320 | | | 787 | 27,074 | |
| 2006 | 7,160 | 18,412 | | | 767 | 25,572 | |
| 2007 | 4,826 | 14,874 | | | 7,301 | 27,001 | |
| 2007 | 1,462 | 25,000 | | | 7,301 | 26,462 | |
| 2008 | 1,402 | 28,335 | | | | 28,335 | |
| 2010 | 718 | 29,231 | | | | 29,949 | |
| 2010 | 2,473 | 20,751 | 13,021 | | | 36,245 | |
| 2011 | 2,473 | 8,892 | 14,066 | | | 45,230 | |
| 2012 | 2,554 | 19,049 | 3,007 | | 13,051 | | |
| 2013 | 2,334 | 7,682 | 457 | | 24,179 | 37,661 32,318 | |
| 2014 | 963 | 7,002 | 457 | 121 | 27,948 | 29,032 | |
| | | 21 725 | 4.020 | | 27,940 | | |
| 2016 | 7,432 3,551 | 21,735 | 4,028 | 665 | | 33,860 | |
| 2017 | | 22,257 | 14,142 | 4 222 | | 39,950 | |
| 2018 2019 | 1,566 | 17,742 | 15,584 | 4,223 | | 39,115 | |
| | 12,877 | 20,291 | 7,588 | 240 | 10 451 | 40,756 | |
| 2020 | 4,667 | 13,833 | 12,377 | 310 | 10,451 | 41,638 | |
| 2021 | | 12,510 | 2,855 | | 21,256 | 36,621 | |
| 2022 | 1 001 | 27,609 | 895 | 1.005 | 10,595 | 39,099 | |
| 2023 | 1,881 | 21,645 | 14,683 | 1,995 | 3,139 | 43,343 | |
| 2024 | 5,627 | 26,835 | 11,202 | - | - | 43,664 | |
| TOTAL | 254,755 | 884,847 | 113,905 | 22,185 | 168,883 | 1,444,575 | |

¹ SWP water by exchange with Kern River interests. ² SWP water by exchange with Friant-Kern interests.

³ Total includes water used for internal purification plant processes.

| | | | Water Supplies Delivered into ID4 | | | | | | | |
|--------------|--------------|--------------------------|-----------------------------------|-----------------------|-----------------------|------------|--------------------------|-----------------------|---------|-----------|
| | | Kern-River | | | SWP | | | In-District | | |
| | | Runoff | | _ 1 | by 2 | | | Direct | Banked | |
| Year | % Allocation | (% of mean) ⁴ | SWP | Recovery ¹ | Exchange ² | Kern River | Friant-Kern ³ | Recharge ⁶ | Water | Total |
| 1971 | | | | | 6,400 | | - | 6,400 | - | 6,400 |
| 1972 | | | | | 11,000 | | - | 11,000 | - | 11,000 |
| 1973 | | | | | 67,500 | | - | 67,500 | - | 67,500 |
| 1974 | | | | | 10,900 | | - | 10,900 | - | 10,900 |
| 1975 | | 81% | 5,700 | | - | | - | 5,700 | - | 5,700 |
| 1976 | | 23% | 27,800 | | - | | - | 27,800 | - | 27,800 |
| 1977 | | 20% | 6,400 | | 2,000 | | - | 8,400 | - | 8,400 |
| 1978 | 100% | 230% | 1,470 | | 37,840 | | 2,990 | 42,300 | - | 42,300 |
| 1979 | 100% | 88% | 60,680 | | 36,200 | | 1,120 | 98,000 | - | 98,000 |
| 1980 | 100% | 208% | 23,210 | | 23,230 | | 3,460 | 49,900 | - | 49,900 |
| 1981 | 100% | 53% | 55,270 | | 2,350 | | 480 | 58,100 | - | 58,100 |
| 1982 | 100% | 168% | 5,480 | | 35,810 | | 2,110 | 43,400 | - | 43,400 |
| 1983 | 100% | 325% | 1,250 | | 10,860 | | 3,290 | 15,400 | - | 15,400 |
| 1984 | 100% | 89% | 15,690 | | 5,120 | | 1,690 | 22,500 | - | 22,500 |
| 1985 | 100% | 89% | 7,980 | | 32,280 | | 940 | 41,200 | - | 41,200 |
| 1986 | 100% | 187% | 22,530 | | 68,000 | | 2,220 | 83,423 | 9,327 | 92,750 |
| 1987 | 100% | 44% | 14,000 | | 18,200 | | 540 | 32,740 | - | 32,740 |
| 1988 | 100% | 34% | 5,210 | | 29,850 | | - | 35,060 | _ | 35,060 |
| 1989 | 100% | 50% | 6,990 | | 14,040 | | _ | 21,030 | _ | 21,030 |
| 1990 | 50% | 24% | 10,713 | | 3,116 | | _ | 13,829 | _ | 13,829 |
| 1991 | 0% | 59% | 1,651 | | 6,279 | | _ | 7,930 | _ | 7,930 |
| 1992 | 45% | 39% | 2,574 | 1,750 | 4,437 | | _ | 8,761 | _ | 8,761 |
| 1993 | 100% | 126% | 51,045 | 1,750 | 30,319 | | 32,727 | 92,195 | 21,896 | 114,091 |
| 1994 | 50% | 41% | 24,671 | - | 15,250 | | 193 | 30,005 | 10,109 | 40,114 |
| 1995 | 100% | 199% | | 5 | | | 23,000 5 | | | |
| | | | 30,200 | - | 76,878 | | 25,000 | 104,148 | 45,935 | 150,083 |
| 1996 1997 | 100% 100% | 128% 122% | 58,934 744 | - | 65,281 | | 13,283 | 85,232 67,670 | 52,266 | 137,498 |
| | | | | - | 66,015 | | 5,432 | | 4,521 | 72,191 |
| 1998 | 100% | 239% | 17,642 | - | 45,680 | | 4,793 | 40,427 | 27,688 | 68,115 |
| 1999 | 100% | 53% | 70,898 | - | 13,872 | | 842 | 85,543 | 69 | 85,612 |
| 2000 | 90% | 65% | 26,304 | 4.406 | 22,843 | | 4,699 | 46,054 | 7,792 | 53,846 |
| 2001 | 39% | 54% | 4,440 | 4,496 | 18,601 | | - | 24,973 | 2,564 | 27,537 |
| 2002 | 70% | 43% | 7,537 | - | 43,904 | | - | 41,258 | 10,183 | 51,441 |
| 2003 | 90% | 70% | 24,303 | - | 24,229 | | - | 20,152 | 28,380 | 48,532 |
| 2004 | 65% | 48% | 20,018 | 2,640 | 14,466 | | - | 35,152 | 1,972 | 37,124 |
| 2005 | 90% | 169% | 89,743 | 689 | 36,502 | | 16,557 | 104,053 | 39,438 | 143,491 |
| 2006 | 100% | 156% | 89,601 | - | 38,962 | | 12,831 | 107,938 | 33,456 | 141,394 |
| 2007 | 60% | 26% | 25,901 | 336 | 20,411 | | 1,567 | 45,592 | 2,623 | 48,215 |
| 2008 | 35% | 72% | 2,179 | 124 | 34,530 | | | 10,371 | | 10,371 |
| 2009 | 40% | 63% | | | 38,166 | | | 9,831 | | 9,831 |
| 2010 | 50% | 125% | 8,469 | | 56,426 | | | 34,946 | 645 | 35,591 |
| 2011 | 80% | 201% | 11,703 | | 38,585 | 23,453 | 172 | 37,668 | 50,857 | 88,525 |
| 2012 | 65% | 38% | 30,969 | | 12,828 | 18,898 | | 17,465 | - | 17,465 |
| 2013 | 35% | 22% | 6,745 | 20,553 | 30,982 | | | 20,619 | - | 20,619 |
| 2014 | 5% | 24% | - | 38,441 | 15,931 | | | 22,054 | - | 22,054 |
| 2015 | 20% | 18% | 1,500 | 41,813 | | | 210 | 14,491 | - | 14,491 |
| 2016 | 60% | 51% | 13,411 | | 36,426 | | 1,000 | 16,977 | - | 16,977 |
| 2017 | 85% | 260% | 16,186 | | 32,543 | 33,483 | | 42,262 | 57,311 | 99,573 |
| 2018 | 35% | 49% | 4,613 | | 25,702 | 21,450 | 4,883 | 17,533 | - | 17,533 |
| 2019 | 75% | 197% | 36,075 | | 38,058 | 9,973 | | 43,350 | 18,590 | 61,940 |
| 2020 | 20% | 43% | 9,172 | 10,451 | 15,884 | 8,353 | 404 | 2,626 | | 2,626 |
| 2021 | 5% | 15% | - | 25,476 | 16,704 | 2,079 | | 7,638 | | 7,638 |
| 2022 | 5% | 21% | - | 12,658 | 37,204 | | | 10,763 | | 10,763 |
| 2023 | 100% | 344% | 10,240 | 4,101 | 23,894 | 19,872 | 2,166 | 16,930 | 68,486 | 85,416 |
| 2024 | 40% | 99% | 7,848 | - | 30,000 | 17,144 | - | 11,328 | 844 | 12,172 |
| TOTAL | | | 995,689 | 163,528 | 1,442,488 | 154,705 | 143,599 | 1,978,517 | 494,952 | 2,473,469 |
| - JIAL | | <u> </u> | 555,005 | 100,010 | _, ++2,+30 | -5 1,7 05 | 0,000 | _,5,0,51 | .5-,552 | _, 5,403 |

¹ Recovered from wells on Kern Fan Element property (unavoidable losses in conveyance to Henry C. Garnett Water Purification Plant).

² SWP water by exchange with Kern River interests.

 $^{^{\}rm 3}$ $\,$ Acquired from Friant-Kern interests.

⁴ Percentage of the 1894 to date, long-term average of the April-July snowmelt runoff at First Point.

⁵ Estimated.

⁶ In-District Direct Recharge is calculated as the sum of all water all supplies delivered into ID4 less the Total Treated Water Supply (Table 3).

Table 5 - ID4 History of State Water Project (SWP) Entitlement and Actual Water Deliveries

SWP SUPPLIES ID4 Deliveries **Table A Entitlement Deliveries** Inability to **SWP** Table A Total Within Banked Total **SWP Supply** Accept SWP Long-Term Year Allocation M&I Allocated Purchase Surplus9 Other Supply ID4 Water **Water Transfers Deliveries** Carryover Deficiency Supply Ag 1970 100% 18.700 18.700 18.700 18.700 100% 22,100 1971 22,100 22,100 22,100 22,100 1972 100% 24,500 24,500 24,500 24,500 24,500 93 3 1973 100% 28 000 28 000 28 000 27 907 27 907 1974 100% 31,400 31,400 31,400 30,816 584 ³ 30,816 1975 100% 35,000 35,000 35,000 35,000 35,000 100% 37,300 1976 37,300 37,300 37.300 37.300 4,080 2 1977 90% 40,800 36,720 36,720 23,695 5,000 28,695 8.025 11,972 3 1978 100% 43,100 43,100 10.892 53,992 42,020 42,020 1979 100% 45.400 45.400 48.524 93.924 93.924 93.924 1980 100% 47,700 47,700 1.050 3,104 51,854 38,678 38,678 13.176 ³ 1981 100% 50,200 50,200 1,250 30,545 81,995 71,995 71,995 10.000 37,030 1982 100% 53,600 53,600 1,550 2,000 57,150 20,120 20,120 1983 100% 56,000 56,000 1,850 57,850 3,427 54,423 3,427 1984 100% 59 400 59 400 2 530 7 913 69.843 69 843 69 843 1985 100% 62.900 62,900 2,795 65,695 65.695 1.100 66.795 2,908 29,616 ³ 1986 100% 65,300 65,300 3,875 2,908 72,083 32,040 9,327 1,100 42,467 1987 100% 68,800 68.800 3.950 72,750 71,030 1.100 72,130 620 1988 100% 71,200 9.335 80.535 4.750 620 85,905 73.674 6,100 79,774 6.131 6,530 4 1989 100% 73.500 9.860 83.360 5.477 95.367 77.367 18,000 95.367 8.828 5,138 2 100% 77.000 10.276 82.138 1.554 89.792 1990 6.100 79.413 79.413 64,176 1991 30% 77,000 10,276 23,100 5,600 1,554 635 30,889 24,851 24,851 2,500 1992 45% 77,000 10,276 39,274 5,400 1,554 2,500 48,728 44,992 44,992 (1,083) 48,002 1993 100% 77,000 10.276 87.276 5.310 1.554 39,189 133,329 109.879 21.896 131,775 41,107 2 53% 77,000 46,169 5,220 1,554 52,943 $(2,195)^{7}$ 1994 10,276 69,917 10,109 80,026 (2,195) 5 1995 100% 77.000 10.276 87.276 5.050 90.131 108.781 45 935 154.716 2.011 100% 77,000 87,276 2,011 100,387 120,324 52,266 172,590 1996 10,276 11,100 1997 100% 77,000 5,946 82,946 11,000 93,946 103,767 4,521 108,288 7,700 3 1998 100% 93.746 27.688 107.162 77.000 5.946 82.946 10.800 79,474 1999 100% 77,000 5.946 82,946 10.600 93,546 191,201 69 191,270 10,471 8 8,295 2000 90% 77,000 5.946 74,651 14,352 47.122 136,125 121,774 7.792 129,566 2001 39% 77.000 5.946 32.349 6.219 14.395 52.963 46.744 2.564 49.308 50.597 24,884 2 2002 70% 77,000 5,946 58,062 6,455 3,593 68,110 71,195 10,183 81,378 2003 90% 77.000 5.946 74.651 10.503 15.938 101.092 86.619 28 380 114,999 5.062 8.295 77,000 29,031 2004 65% 5.946 53.915 5.435 7.904 67.254 79.571 1.972 81.543 2005 90% 77,000 5.946 74.651 11.474 72,709 158.834 51.811 39.438 91.249 390 8,295

138,729

62,128

29,167

34.414

54,447

91,414

55.642

39.345

(2,467)

20.096

62,904

84,253

45,952

84,664

29,297

7,695

13,427

88.075

65.639

3,508,766

63,921

63,552

29,167

21.716

43,753

58,378

55.183

47.202

1.500

13,411

16,186

4,613

36,075

9,172

10.240

7.848

2,733,361

33.456

2,623

645

29,360

6,358

7,103

341,685

32,400

97,377

66,175

29,167

21.716

44,398

87,738

55.183

47.202

1.500

13,411

22,544

4,613

43,178

9.172

10.240

7.848

3,107,446

1,425

1,190

8,182

211

2.301

 $(7.225)^{-7}$

2.993

11.904

6,426

10,805

5,915

8,820

1 455

9,280

5,129

32.461

12.538

169,699

12.698

(477)⁷

33,178 2

53,915 ²

49.768

41,473

16,589

29.031

78.799

66.357

33,178

12,442 ² 53,915 ²

20,737 2

66.357

78,799

78,799

49.768

183.294

1,108,917

53,915 2

All units in acre-feet unless otherwise noted.

257,615 2,778,598

2006

2007

2008

2009

2010

2011

2012

2013

2014

2015

2016

2017

2018

2019

2020

2021

2022

2023

2024

TOTALS

100%

60%

35%

40%

50%

80%

65%

35%

5%

20%

60%

85%

35%

75%

20%

5%

5%

100%

40%

77.000

77,000

77,000

77.000

77,000

77,000

77.000

77,000

77,000

77.000

77,000

77,000

77,000

77,000

77.000

77,000

77,000

77.000

77.000

3,629,900

5.946

5,946

5,946

5.946

5,946

5,946

5.946

5.946

5.946

5.946

5,946

5,946

5,946

5,946

5 946

5,946

5,946

5.946

5.946

82.946

49,768

29,031

33.178

41,473

66,357

53.915

29.031

4,147

16.589

49,768

70.504

29,031

62,210

16 589

4,147

4,147

82.946

33.178

176,994

13,219

4,080

42.564

8,280

1.236

12.974

25,057

1.727

10.314

(6,614)

3.507

13,136

13,749

16,921

22,454

12 708

3,548

9,280

5.129

32.461

545,404

7.770

136

¹CVC/ID4 project not completed.

² Due to State Water Project shortfalls.

 $^{^{\}rm 3}\,\text{Wet}$ years on the Kern River.

⁴ Includes 5,000 af released to water pool for use by agricultural districts.

⁵ Carryover 6,131 af and 5,000 af Kern-Tulare/Lost Hills/ID4 exchange.

⁶ Includes 635 af of carryover and 8,193 af released to water pool for use by agricultural district.

⁷ Overdeliveries.

⁸ Includes 10,000 af exchanged with Arvin-Edison; 47 af carryover.

⁹ Replaced by interruptible water after execution of the Monterey Agreement in December 1994.

Table 6 - Groundwater Production

| | - Groundwate | | | Charges Callested | Voor | Voca Agricultural All Other | | | Charges Callested |
|------|--------------|-----------|--------|--------------------------|-------|-----------------------------|-----------|-----------|--------------------------|
| Year | Agricultural | All Other | Total | Charges Collected | Year | Agricultural | All Other | Total | Charges Collected |
| 1976 | 20,000 | 78,200 | 98,200 | \$1,321,000 | 2001 | 1,098 | 95,677 | 96,775 | \$2,828,000 |
| 1977 | 11,700 | 61,900 | 73,600 | \$1,102,000 | 2002 | 360 | 99,821 | 100,181 | \$2,961,831 |
| 1978 | 14,500 | 55,500 | 70,000 | \$1,119,000 | 2003 | 173 | 96,522 | 96,695 | \$2,310,515 |
| 1979 | 14,100 | 61,600 | 75,700 | \$1,369,000 | 2004 | 157 | 93,290 | 93,447 | \$2,799,629 |
| 1980 | 11,900 | 63,000 | 74,900 | \$1,190,000 | 2005 | 108 | 82,614 | 82,722 | \$2,623,381 |
| 1981 | 12,797 | 68,697 | 81,494 | \$1,458,000 | 2006 | 380 | 76,120 | 76,500 | \$2,800,000 |
| 1982 | 7,655 | 63,140 | 70,795 | \$1,575,700 | 2007 | 507 | 89,794 | 90,301 | \$2,983,707 |
| 1983 | 4,869 | 62,591 | 67,460 | \$1,302,530 | 2008 | 466 | 94,034 | 94,500 | \$3,065,002 |
| 1984 | 9,755 | 73,052 | 82,807 | \$1,564,580 | 2009 | 636 | 90,747 | 91,383 | \$3,162,445 |
| 1985 | 7,568 | 74,080 | 81,648 | \$1,522,013 | 2010 | 398 | 78,027 | 78,425 | \$3,103,644 |
| 1986 | 2,726 | 74,386 | 77,112 | \$1,516,070 | 2011 | 117 | 75,751 | 75,868 | \$2,640,849 |
| 1987 | 4,595 | 72,330 | 76,925 | \$1,426,287 | 2012 | 63 | 77,271 | 77,334 | \$2,720,115 |
| 1988 | 4,555 | 67,500 | 72,055 | \$1,384,849 | 2013 | 263 | 73,929 | 74,192 | \$2,679,707 |
| 1989 | 4,730 | 69,100 | 73,830 | \$1,541,380 | 2014 | 1,661 | 82,270 | 83,931 | \$3,042,016 |
| 1990 | 5,000 | 71,000 | 76,000 | \$1,546,222 | 2015 | 1,239 | 65,334 | 66,573 | \$2,724,571 |
| 1991 | 12,000 | 72,000 | 84,000 | \$1,524,830 | 2016 | 337 | 61,570 | 61,908 | \$2,240,097 |
| 1992 | 4,454 | 81,230 | 85,684 | \$1,621,910 | 2017 | 295 | 62,468 | 62,762 | \$2,261,050 |
| 1993 | 3,281 | 79,455 | 82,736 | \$2,365,720 | 2018 | 423 | 61,046 | 61,469 | \$2,332,976 |
| 1994 | 5,743 | 87,009 | 92,752 | \$1,582,433 | 2019 | 553 | 55,544 | 56,097 | \$2,292,091 |
| 1995 | 4,834 | 80,673 | 85,507 | \$2,500,738 | 2020 | 860 | 58,674 | 59,534 | \$2,124,075 |
| 1996 | 3,889 | 89,226 | 93,115 | \$2,736,595 | 2021 | 1,847 | 68,292 | 70,138 | \$2,501,342 |
| 1997 | 2,089 | 88,721 | 90,810 | \$2,696,467 | 2022 | 4,247 | 63,722 | 67,969 | \$2,689,120 |
| 1998 | 988 | 76,492 | 77,480 | \$2,315,939 | 2023 | 1,355 | 54,777 | 56,132 | \$2,345,397 |
| 1999 | 2,676 | 92,197 | 94,873 | \$2,871,004 | 2024* | 2,801 | 59,249 | 62,050 | \$2,287,345 |
| 2000 | 1,569 | 92,182 | 93,751 | \$2,797,852 | Total | 198,317 | 3,671,804 | 3,870,122 | \$107,471,025 |

All units in acre-feet unless otherwise noted.

Table 7 - Registered Active Wells Within ID4

| Year | Commercial | Domestic | Irrigation | Purveyor | Total Active Wells |
|------|------------|----------|------------|----------|---------------------------|
| 2015 | 105 | 82 | 10 | 222 | 419 |
| 2016 | 103 | 80 | 10 | 221 | 414 |
| 2017 | 99 | 81 | 10 | 221 | 411 |
| 2018 | 97 | 78 | 11 | 221 | 407 |
| 2019 | 93 | 75 | 11 | 219 | 398 |
| 2020 | 94 | 74 | 11 | 219 | 398 |
| 2021 | 95 | 74 | 11 | 216 | 396 |
| 2022 | 90 | 74 | 12 | 216 | 392 |
| 2023 | 91 | 74 | 12 | 216 | 393 |
| 2024 | 91 | 74 | 12 | 216 | 393 |

Table 8 - History of ID4 Groundwater Charges

| Year | Agricultural Use | All Other Uses | Sm Groundwater Facilities |
|-----------|------------------|----------------|---------------------------|
| | \$/acre-foot | \$/acre-foot | \$/year |
| 1975-1978 | \$7.50 | \$15.00 | \$0.00 |
| 1978-1994 | \$10.00 | \$20.00 | \$0.00 |
| 1994-2008 | \$15.00 | \$30.00 | \$30.00 |
| 2008-2009 | \$17.00 | \$34.00 | \$34.00 |
| 2009-2012 | \$17.50 | \$35.00 | \$35.00 |
| 2012-2015 | \$18.00 | \$36.00 | \$36.00 |
| 2015-2018 | \$18.50 | \$37.00 | \$37.00 |
| 2018-2021 | \$19.00 | \$38.00 | \$38.00 |
| 2021-2024 | \$19.50 | \$39.00 | \$39.00 |
| 2024-2025 | \$20.00 | \$40.00 | \$40.00 |

Table 9 - ID4 Land Use

Units in acres unless otherwise noted.

| | ID4 Lana Us | | | | | _ | | in acres unless other | |
|------|-------------|--------------|-------------|--------|------|--------|--------------|-----------------------|--------|
| Year | M & I | Agricultural | Undeveloped | Total | Year | M & I | Agricultural | Undeveloped | Total |
| 1972 | 24,200 | 19,500 | 21,700 | 65,400 | 2006 | 53,019 | 8,715 | 3,666 | 65,400 |
| 1974 | 30,700 | 18,400 | 16,300 | 65,400 | 2007 | 52,993 | 8,742 | 3,665 | 65,400 |
| 1976 | 30,600 | 18,500 | 16,300 | 65,400 | 2008 | 52,993 | 8,741 | 3,666 | 65,400 |
| 1978 | 33,500 | 18,000 | 13,900 | 65,400 | 2009 | 52,984 | 8,741 | 3,675 | 65,400 |
| 1980 | 36,700 | 16,500 | 12,200 | 65,400 | 2010 | 55,708 | 6,029 | 3,663 | 65,400 |
| 1982 | 38,600 | 14,700 | 12,100 | 65,400 | 2011 | 55,708 | 6,029 | 3,663 | 65,400 |
| 1984 | 40,000 | 12,000 | 13,400 | 65,400 | 2012 | 55,708 | 6,029 | 3,663 | 65,400 |
| 1986 | 42,000 | 10,800 | 12,600 | 65,400 | 2013 | 55,920 | 6,359 | 3,121 | 65,400 |
| 1988 | 42,270 | 10,821 | 12,309 | 65,400 | 2014 | 59,055 | 4,127 | 2,218 | 65,400 |
| 1990 | 49,364 | 8,558 | 7,478 | 65,400 | 2015 | 55,019 | 5,199 | 5,182 | 65,400 |
| 1991 | 49,424 | 12,493 | 3,483 | 65,400 | 2016 | 55,400 | 5,100 | 4,900 | 65,400 |
| 1992 | 49,759 | 11,641 | 4,000 | 65,400 | 2017 | 55,600 | 5,100 | 4,700 | 65,400 |
| 1993 | 50,456 | 11,102 | 3,842 | 65,400 | 2018 | 55,600 | 5,100 | 4,700 | 65,400 |
| 1994 | 51,418 | 10,214 | 3,768 | 65,400 | 2019 | 55,700 | 5,100 | 4,600 | 65,400 |
| 1995 | 51,472 | 11,533 | 2,395 | 65,400 | 2020 | 55,715 | 5,100 | 4,585 | 65,400 |
| 1996 | 52,775 | 9,431 | 3,194 | 65,400 | 2021 | 55,755 | 5,100 | 4,545 | 65,400 |
| 1997 | 53,146 | 8,816 | 3,438 | 65,400 | 2022 | 55,900 | 3,900 | 5,600 | 65,400 |
| 1998 | 51,503 | 7,951 | 5,946 | 65,400 | 2023 | 56,200 | 3,900 | 5,300 | 65,400 |
| 1999 | 52,558 | 7,228 | 5,614 | 65,400 | 2024 | 56,300 | 3,900 | 5,200 | 65,400 |
| 2000 | 53,457 | 6,592 | 5,351 | 65,400 | | | | | |
| 2001 | 54,145 | 6,204 | 5,051 | 65,400 | | | | | |
| 2002 | 52,907 | 8,787 | 3,706 | 65,400 | | | | | |
| 2003 | 52,907 | 8,787 | 3,706 | 65,400 | | | | | |
| 2004 | 52,907 | 8,788 | 3,705 | 65,400 | | | | | |
| 2005 | 53,019 | 8,722 | 3,659 | 65,400 | | | | | |

Table 10 - Henry C. Garnett Water Purification Plant Operations Costs 2024

| | Purchased | | | Miscellaneous | Capital | | | |
|-----------|-----------|-----------|---------|---------------------------|---------|-----------|------------|-----------|
| | Chemicals | Labor | Energy | Expenditures ¹ | Outlays | Total | Deliveries | Unit Rate |
| | (\$) | (\$) | (\$) | (\$) | (\$) | (\$) | (af) | (\$/af) |
| January | 109,271 | 272,695 | - | 152,973 | 12,737 | 547,676 | 2,429 | 225 |
| February | 163,846 | 234,563 | 61,755 | 228,176 | 79,235 | 767,575 | 2,060 | 373 |
| March | 49,264 | 243,282 | 115,786 | 151,101 | 136,608 | 696,041 | 2,470 | 282 |
| April | 141,703 | 210,247 | 58,959 | 132,979 | 2,126 | 546,014 | 2,561 | 213 |
| May | 215,379 | 343,111 | 64,059 | 116,622 | 3,027 | 742,198 | 4,101 | 181 |
| June | 244,414 | 227,344 | 186,263 | 399,484 | 122,216 | 1,179,721 | 4,627 | 255 |
| July | 168,838 | 232,943 | 8,974 | 150,607 | 3,266 | 564,628 | 4,904 | 115 |
| August | 227,105 | 244,999 | 103,196 | 142,741 | 5,043 | 723,084 | 4,966 | 146 |
| September | 256,773 | 238,367 | 103,787 | 148,067 | 35,058 | 782,052 | 4,225 | 185 |
| October | 165,033 | 226,243 | 97,046 | 109,544 | - | 597,866 | 3,863 | 155 |
| November | 153,950 | 398,157 | 71,817 | 156,570 | 7,502 | 787,996 | 2,629 | 300 |
| December | 76,656 | 243,258 | 62,519 | 289,978 | - | 672,411 | 2,595 | 259 |
| Totals | 1,972,232 | 3,115,209 | 934,161 | 2,178,842 | 406,818 | 8,607,262 | 41,430 | 208 |

Table 10A - Henry C. Garnett Water Purification Plant Historic Annual Operations Costs

| | Purchased | | | Miscellaneous | Capital | | | |
|--------|------------|------------|-----------|---------------------------|-----------|------------|------------|------------------|
| | Chemicals | Labor | Energy | Expenditures ¹ | Outlays | Total | Deliveries | Unit Rate |
| | (\$) | (\$) | (\$) | (\$) | (\$) | (\$) | (af) | (\$/af) |
| 2015 | 403,424 | 2,769,409 | 275,214 | 1,606,540 | 121,114 | 5,175,701 | 27,877 | 186 |
| 2016 | 647,088 | 2,614,321 | 305,148 | 1,393,931 | 48,165 | 5,008,653 | 32,364 | 155 |
| 2017 | 912,336 | 2,636,823 | 317,412 | 1,448,409 | 85,733 | 5,400,713 | 37,993 | 142 |
| 2018 | 960,812 | 2,884,463 | 326,469 | 1,794,815 | 251,590 | 6,218,149 | 36,752 | 169 |
| 2019 | 1,051,166 | 2,589,461 | 368,039 | 1,706,382 | 192,483 | 5,907,531 | 38,215 | 155 |
| 2020 | 840,715 | 2,442,894 | 539,972 | 1,711,079 | 35,177 | 5,569,837 | 39,823 | 140 |
| 2021 | 905,968 | 2,555,994 | 515,649 | 1,621,925 | 200,572 | 5,800,108 | 34,377 | 169 |
| 2022 | 1,517,000 | 2,745,126 | 656,247 | 1,981,919 | 116,799 | 7,017,091 | 36,032 | 195 |
| 2023 | 1,635,630 | 2,903,882 | 851,483 | 1,716,228 | 482,095 | 7,589,318 | 40,176 | 189 |
| 2024 | 1,972,232 | 3,115,209 | 934,161 | 2,178,842 | 406,818 | 8,607,262 | 41,430 | 208 |
| Totals | 10,846,371 | 27,257,582 | 5,089,794 | 17,160,070 | 1,940,546 | 62,294,363 | 365,039 | |

¹ Includes: operations (less chemicals), maintenance, office supplies, memberships, professional services, licenses & permits, insurance premiums, debt service on ID4 capital assets, Agency overhead charges and other expenses.

Table 11 - ID4 - Operations Fund

| | | | Final | Estimated | Proposed |
|------------------------------------|------------|------------|------------|------------|------------|
| | Actual | Actual | Budget | Actual | Budget |
| Revenues | 2021-22 | 2022-23 | 2023-24 | 2023-24 | 2024-25 |
| 4150 Treated Water Sales | 8,928,796 | 9,708,204 | 9,750,000 | 10,295,350 | 10,703,250 |
| 4170 Other Water Sales | 107,813 | - | - | 54,340 | - |
| Water Sales Total | 9,036,609 | 9,708,204 | 9,750,000 | 10,349,690 | 10,703,250 |
| 4290 Refunds & Credits | - | | - | - | - |
| Credits & Refunds Total | - | - | - | - | - |
| 4400 Participant's Annual Payments | 196,237 | 151,613 | 178,400 | 178,400 | 178,400 |
| 4401 Participant's O&M Costs | 2,148,428 | 1,575,222 | 2,974,680 | 3,196,400 | 1,646,530 |
| 4402 Participant's Power Costs | 4,296,817 | 5,400,826 | 5,267,800 | 4,970,700 | 6,665,700 |
| 4430 Exchange/Conveyance Fees | 8,089,049 | 2,401,303 | 150,000 | 150,000 | 472,500 |
| 4499 Other User Charges | 1,287,338 | 1,027,218 | 383,250 | - | 312,500 |
| User ChargesTotal | 16,017,869 | 10,556,182 | 8,954,130 | 8,495,500 | 9,275,630 |
| 4500 Groundwater Charge Collection | 2,656,822 | 2,375,037 | 2,574,000 | 2,160,000 | 2,215,120 |
| Ground Water Charges Total | 2,656,822 | 2,375,037 | 2,574,000 | 2,160,000 | 2,215,120 |
| 4610 Reimburseables | 153,655 | 2,307,384 | 461,800 | 4,952,700 | 320,000 |
| Reimbursements Total | 153,655 | 2,307,384 | 461,800 | 4,952,700 | 320,000 |
| 4700 Investment Income | 31,320 | 153,028 | 64,000 | 285,000 | 200,000 |
| 4705 Interest From Other Sources | - | - | - | - | - |
| Interest Income Total | 31,320 | 153,028 | 64,000 | 285,000 | 200,000 |
| 4800 Proceeds from Debt Issuance | - | - | - | - | - |
| Proceeds From Debt Insurance Total | - | - | - | - | - |
| 4900 Other Revenue | 10,905 | 19,496 | 2,101,160 | 2,394,530 | - |
| 4901 Disposal of Fixed Assets | - | - | - | - | - |
| 4902 Lease Income | - | - | - | - | - |
| 4911 Water Analyses | 8,105 | 21,320 | 25,000 | 20,000 | 20,000 |
| Other Revenue Total | 19,010 | 40,816 | 2,126,160 | 2,414,530 | 20,000 |
| Total Revenues | 27,915,285 | 25,140,651 | 23,930,090 | 28,657,420 | 22,734,000 |

Table 11 - ID4 - Operations Fund - continued

| Table 11 - ID4 - Operations Fund - continued | | | Final | Estimated | Proposed |
|--|-----------|-----------|-----------|-----------|-----------|
| | Actual | Actual | Budget | Actual | Budget |
| Expenditures | 2021-22 | 2022-23 | 2023-24 | 2023-24 | 2024-25 |
| 5000 Salaries Regular | 2,265,197 | 2,442,250 | 2,562,820 | 2,503,720 | 2,720,120 |
| 5001 Salaries Overtime | 52,948 | 61,590 | 65,000 | 109,120 | 110,000 |
| 5002 Salaries Temporary | <u> </u> | <u> </u> | - | - | |
| 5010 Benefits Social Security | 163,602 | 172,289 | 202,660 | 201,440 | 218,080 |
| 5011 Workers Compensation Insurance | 16,405 | 36,066 | 51,500 | 49,330 | 55,200 |
| 5012 Benefits Unemployment Insurance | - | - | - | - | - |
| 5020 Benefits Retirement | 1,074,073 | 1,167,255 | 1,376,180 | 1,316,900 | 1,423,080 |
| 5021 Benefits Health Insurance | 838,981 | 802,770 | 846,540 | 823,800 | 884,100 |
| 5022 Benefits Life Insurance | 15,815 | 16,184 | 22,560 | 16,390 | 24,000 |
| 5023 Benefits Dental Insurance | 17,782 | 18,723 | 25,920 | 12,840 | 29,160 |
| 5024 Benefits Vision Insurance | 5,094 | 5,081 | 6,360 | 3,210 | 6,600 |
| 5025 Benefits LTD Insurance | 16,087 | 16,001 | 25,560 | 25,040 | 27,480 |
| 5026 Benefits LTC Insurance | 2,618 | 4,116 | 6,960 | 5,180 | 7,680 |
| Labor CostsTotal | 4,468,602 | 4,742,325 | 5,192,060 | 5,066,970 | 5,505,500 |
| 5250 Member Unit Credits | - | - | - | - | - |
| Member Unit Credit Total | - | - | - | - | - |
| 5100 Groundwater Recharge Fees | 179,984 | 509,607 | 796,000 | 796,000 | 618,000 |
| 5101 Groundwater Extraction Fees | 4,364,047 | 2,452,211 | 1,338,500 | 507,790 | 1,198,180 |
| 5103 Water Exchange & Convey. Fees | 141,320 | 115,659 | 76,820 | 38,280 | 80,000 |
| 5115 Reregulation Fees | - | - | - | - | - |
| 5130 CVC O&M Costs | 1,441,383 | 1,174,828 | 2,236,000 | 1,740,000 | 1,400,000 |
| 5131 CVC Power & Standby Charges | 174,361 | 377,887 | 550,000 | 850,000 | 550,000 |
| 5170 Other Water Purchases | - | - | - | - | |
| Water Purchases & Fees Total | 6,301,095 | 4,630,192 | 4,997,320 | 3,932,070 | 3,846,180 |
| 5260 Fuels, Oils and Grease | 59,409 | 82,415 | 78,850 | 69,150 | 77,250 |
| 5270 Chemicals | 995,674 | 1,609,820 | 2,000,000 | 2,015,000 | 2,195,000 |
| 5280 Water Analyses | 125,092 | 145,318 | 150,400 | 150,100 | 155,100 |
| 5290 Rents and Leases | 2,289 | 3,482 | 3,500 | 3,500 | 3,700 |
| 5299 Other Operating Supplies | 7,000 | 5,081 | 5,000 | 5,000 | 5,200 |
| Operations Total | 1,189,464 | 1,846,116 | 2,237,750 | 2,242,750 | 2,436,250 |
| 5300 Power for Operations | 8,012,526 | 8,034,731 | 6,117,800 | 5,870,700 | 7,700,760 |
| 5301 Standby Charges for Power | 52,811 | 14,366 | 19,800 | 27,000 | 27,000 |
| Power Total Power Total | 8,065,337 | 8,049,097 | 6,137,600 | 5,897,700 | 7,727,760 |
| 5400 Maint - Structures & Improvmts | 558,800 | 417,758 | 286,300 | 296,280 | 348,750 |
| 5401 Maint - Mobile Equip | 29,048 | 40,322 | 28,700 | 39,000 | 40,430 |
| 5402 Maint - Electronic Equip | 80,549 | 199,305 | 120,300 | 126,000 | 131,700 |
| 5403 Maint - Wells, Pumps, Motors | 415,007 | 56,007 | 82,000 | 36,000 | 150,750 |
| 5404 Maint - Chemicals | - | - | - | - | - |
| 5408 Maint - Office Equip & Furnish | 823 | 434 | 500 | 250 | 500 |
| 5409 Maint - Other | 29,636 | 19,237 | 21,500 | 20,500 | 22,500 |
| 5410 Maint - Janitorial | 22,417 | 22,690 | 25,000 | 25,000 | 26,250 |
| Maintenance Total | 1,136,280 | 755,753 | 564,300 | 543,030 | 720,880 |

Table 11 - ID4 - Operations Fund - continued

| Table 11 - ID4 - Operations Fund - continued | | | Final | Estimated | Proposed |
|--|------------|------------|------------|------------|------------|
| | Actual | Actual | Budget | Actual | Budget |
| Expenditures - continued | 2021-22 | 2022-23 | 2023-24 | 2023-24 | 2024-25 |
| 5500 General Office Supplies | 3,631 | 3,128 | 3,450 | 5,750 | 5,250 |
| 5501 Printing and Reproduction | 14 | 90 | 100 | 100 | 100 |
| 5502 Computer Supplies | 3,068 | 1,228 | 1,750 | 4,000 | 2,450 |
| 5503 Publications & Subscriptions | 13,997 | 8,560 | 8,700 | 9,200 | 9,400 |
| 5504 Mailing Services | 993 | 1,867 | 2,350 | 1,850 | 1,750 |
| 5510 Laundry and Uniforms | 15,286 | 16,912 | 18,000 | 20,000 | 19,000 |
| 5520 Legal Notices & Job Advertise. | 2,600 | 8,294 | 2,650 | 3,800 | 3,800 |
| 5530 Computer Access Fees | 10,393 | 12,622 | 12,850 | 14,900 | 14,900 |
| 5540 Promotions & Advertisements | 2,784 | 2,868 | - | 870 | - |
| 5550 Assoc. & Prof. Membership Fees | 107,661 | 20,761 | 234,140 | 299,140 | 244,450 |
| 5570 Telephone | 28,967 | 20,846 | 27,850 | 32,300 | 33,800 |
| 5571 Utilities | 7,740 | 11,795 | 14,800 | 11,820 | 12,500 |
| 5581 Liability Insurance | 36,425 | 52,524 | 84,100 | 55,300 | 89,900 |
| 5582 Property Insurance | 69,966 | 80,855 | 97,400 | 100,820 | 120,940 |
| 5584 Other Insurance Premiums | - | 3,597 | - | 3,370 | 3,600 |
| 5589 Safety Programs & Equipment | 53,122 | 66,454 | 51,650 | 48,750 | 53,750 |
| 5590 Directors' Fees | 18,032 | 21,583 | 20,200 | 20,310 | 19,500 |
| 5591 Business Meetings & Travel | 830 | 3,258 | 15,000 | 12,500 | 15,000 |
| 5592 Education & Training | 1,445 | 2,380 | 10,000 | 10,000 | 10,000 |
| 5593 Employee Recruitment | 7,674 | 58,552 | - | 7,250 | 5,750 |
| 5599 Agency Overhead Allocation | 1,138,285 | 1,137,045 | 1,195,200 | 1,195,200 | 1,194,000 |
| AdministrationTotal | 1,522,913 | 1,535,219 | 1,800,190 | 1,857,230 | 1,859,840 |
| 5601 Legal Services | 6,285 | 13,916 | 10,000 | 5,000 | 10,000 |
| 5602 Consulting Engineers | 224,590 | 426,797 | 311,500 | 255,000 | 222,500 |
| 5603 Audit Services | 10,667 | 10,978 | 16,800 | 15,400 | 16,800 |
| 5604 Special Consultants | 324,676 | 231,685 | 300,000 | 172,510 | 472,000 |
| Professional Services Total | 566,218 | 683,376 | 638,300 | 447,910 | 721,300 |
| 5710 Land Purchase | - | - | - | - | |
| 5720 Structures & Improvements | 501,349 | 345,023 | 2,215,000 | 2,350,000 | 455,000 |
| 5730 Mobile Equipment | - | - | 140,000 | 140,000 | 60,000 |
| 5740 Electrical & Mechanical Equip | 150,522 | 109,281 | 193,000 | 121,250 | 538,800 |
| 5790 Other Equipment | - | 2,160 | - | - | - |
| Capital Outlays Total | 651,871 | 456,464 | 2,548,000 | 2,611,250 | 1,053,800 |
| 5800 Principal on Long Term Debt | 145,050 | 148,537 | 148,400 | 151,980 | 155,630 |
| 5801 Interest on Long Term Debt | 33,346 | 29,996 | 30,000 | 26,420 | 22,770 |
| Debt Repayment Total | 178,396 | 178,533 | 178,400 | 178,400 | 178,400 |
| 5910 Tax Collection Charge | - | - | _ | - | - |
| 5920 Amort. / Deprec. Expense | - | - | - | - | - |
| 5950 Licenses & Permits | 55,648 | 54,542 | 61,840 | 55,500 | 56,000 |
| 5951 Prof. License & Certification Fees | 750 | 1,291 | 1,000 | 1,120 | 1,220 |
| 5960 Security | 87,820 | 192,299 | 182,400 | 206,000 | 210,000 |
| 5970 Special Projects | - | 299,664 | 2,215,000 | 6,677,860 | |
| 5999 Other Expenses | 46,147 | 31,114 | 35,850 | 36,400 | 40,400 |
| Other Expenses Total | 190,365 | 578,910 | 2,496,090 | 6,976,880 | 307,620 |
| 5900 Unapplied Appropriations | | 0.0,010 | _,, | | 207,020 |
| Unapplied Appropriations Total | <u> </u> | <u>-</u> | <u>-</u> | - | - |
| | 04.070.544 | 22 455 005 | 26 700 040 | 20.754.400 | 04 257 500 |
| Total Expenditures | 24,270,541 | 23,455,985 | 26,790,010 | 29,754,190 | 24,357,530 |

Table 12 - Treated Water 2024

| Constituent | Maxim | num Contaminan | t Level | | Parameter | | Months in | Compliance |
|--|---------------|-------------------|-----------------------|----------------|------------------|----------------|----------------|----------------|
| | | | Microbiologica | | | | | |
| Coliform Bacteria | | % of samples pres | | 40 or more | samples collecte | d per month | 1 | 2 |
| Constituent | Units | m bacteria in one | MCL MCL | Quarter 1 | Quarter 2 | Quarter 3 | Quarter 4 | Average |
| | | Prima | ry Inorganic Che | emicals | | | | |
| Aluminum | mg/L | 0.6 | 1 | 0.137 | ND | 0.088 | 0.140 | 0.091 |
| Antimony | mg/L | 0.001 | 0.006 | ND | ND | ND | ND | ND |
| Arsenic | mg/L | 0.000004 | 0.010 | ND | ND | ND | ND | ND |
| Asbestos | MFL | 7 | 7 | - ND | ND | - ND | - | N/A |
| Barium Beryllium | mg/L mg/L | 2 0.001 | 0.004 | ND ND | ND ND | ND ND | ND ND | ND ND |
| Cadmium | mg/L | 0.0001 | 0.004 | ND | ND | ND | ND ND | ND |
| Chromium, Hexavalent | mg/L | 0.00004 | 0.003 | - | ND ND | - | - | N/A |
| Chromium, Total | mg/L | N/A | 0.05 | ND | ND | ND | ND | ND |
| Cyanide | mg/L | 0.15 | 0.15 | - | ND | - | - | N/A |
| Fluoride | mg/L | 1 | 2 | ND | 0.20 | 0.14 | 0.18 | 0.13 |
| Lead* | mg/L | 0.0002 | 0.015 | ND | ND | ND | ND | ND |
| Mercury | mg/L | 0.0012 | 0.002 | ND | ND | ND | ND | ND |
| Nickel | mg/L | 0.012 | 0.1 | ND | ND | ND | ND | ND |
| Nitrate (as Nitrogen, N) | mg/L | 10 | 10 | 0.63 | ND | 0.10 | ND | 0.18 |
| Nitrite (as Nitrogen, N) | mg/L | 1 | 1 | ND | ND | ND | ND | ND |
| Nitrite + Nitrate (sum as Nitrogen, N) | mg/L | 10 | 10 | 0.63 | ND | 0.10 | ND | 0.18 |
| Perchlorate | mg/L | 0.001 | 0.006 | - | - | - | 0.002 | N/A |
| Selenium | mg/L | 0.03 | 0.05 | ND | ND | ND | ND | ND |
| Thallium | mg/L | 0.0001 | 0.002 | ND . | ND | ND | ND | ND |
| Aluminum | ma/l | N/A | condary Standa | | ND | 0.000 | 0.140 | 0.001 |
| Aluminum Color | mg/L Units | N/A N/A | 0.2 15 | 0.137 < 2.5 | ND < 2.5 | 0.088 < 2.5 | 0.140 < 2.5 | 0.091 < 2.5 |
| Copper* | mg/L | 0.3 | 1.3 | ND | ND | ND | ND | ND |
| Foaming Agents (MBAS) | mg/L | N/A | 0.5 | - | ND ND | ND - | - IND | N/A |
| Iron | mg/L | N/A | 0.3 | 0.22 | ND | ND | 0.12 | 0.08 |
| Manganese | mg/L | N/A | 0.05 | ND | ND | ND | ND | ND |
| Methyl tert-butyl ether | mg/L | N/A | 0.005 | ND | ND | ND | ND | ND |
| Odor | Units | N/A | 3 | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 |
| Silver | mg/L | N/A | 0.1 | ND | ND | ND | ND | ND |
| Thiobencarb | mg/L | N/A | 0.001 | - | ND | - | - | N/A |
| Turbidity | NTU | N/A | 5 | 0.25 | 0.19 | ND | 0.22 | 0.17 |
| Zinc | mg/L | N/A | 5.0 | ND | ND | ND | 0.07 | 0.02 |
| Total Dissolved Solids | mg/L | N/A | 1000 | 365 | 119 | 81 | 111 | 169 |
| Specific Conductance | uS/cm | N/A | 1600 | 684 | 200 | 145 | 181 | 303 |
| Chloride | mg/L | N/A | 500 | 116 | 7.51 | 6.51 | 7.39 | 34.4 |
| Sulfate | mg/L | N/A | 500 | 60.6 | 27.8 | 17.9 | 23.3 | 32.4 |
| Total Alkalinity (as CaCO) | | | General Mineral | s 66 | E4 | 40 | 50 | F2 |
| Total Alkalinity (as CaCO ₃) Bicarbonate | mg/L | N/A N/A | N/A N/A | 80.5 | 54 65.9 | 48.8 | 61.0 | 53 64.1 |
| Carbonate | mg/L mg/L | N/A N/A | N/A N/A | ND | 05.9 ND | 46.6 ND | ND | ND |
| Hydroxide | mg/L | N/A | N/A | ND | ND ND | ND ND | ND ND | ND |
| Total Hardness (as CaCO ₃) | mg/L | N/A | N/A | 117 | 54.6 | 33.5 | 42.4 | 61.9 |
| Calcium | mg/L | N/A | N/A | 22.1 | 16.7 | 10.4 | 13.1 | 15.6 |
| Magnesium | mg/L | N/A | N/A | 14.9 | 3.12 | 1.80 | 2.35 | 5.54 |
| Sodium | mg/L | N/A | N/A | 80.4 | 19.4 | 13.4 | 16.3 | 32.4 |
| Potassium | mg/L | N/A | N/A | 4.43 | 2.40 | 1.61 | 1.91 | 2.59 |
| рН | Units | N/A | N/A | 7.18 | 7.37 | 7.26 | 7.40 | 7.30 |
| | | | dditional Analys | | | | | |
| Ammonia | mg/L | N/A | N/A | ND | ND | ND | ND | ND |
| Boron** | mg/L | N/A | 1 | - | 0.11 | - | - | N/A |
| Bromide | mg/L | N/A | N/A | 0.17 | ND | ND | ND | 0.04 |
| Chlorate** | mg/L | N/A | 0.8 | 0.217 | 0.225 | 0.173 | 0.222 | 0.209 |
| Chlorite | mg/L | 0.05 | 1.0 | ND | ND | ND | ND | ND |
| Phosphate as PO ₄ | mg/L | N/A | N/A | ND 10.5 | ND | 0.36 | ND 0.33 | 0.09 |
| Silica | mg/L | N/A | N/A | 12.5 | 11.2 | 10.8 | 9.22 | 10.9 |
| Total Organic Carbon | mg/L | N/A | N/A | 2.2 | 1.8 ND | 1.7 | 1.7 | 1.9 N/A |
| Vanadium*** | mg/L | N/A | 0.05 Radioactivity | - | טאו | - | - | IN/A |
| Gross Alpha | pCi/L | N/A | 15 | - | 1.33 | | - | N/A |
| *Values identified as MCLs are Action Lev | | | 10 | _ | 1.00 | ND = Not Dete | | 14/73 |

NTU = nephelometric turbidity units

pCi/L = picocuries per liter

PHG = Public Health Goal

^{*}Values identified as MCLs are Action Levels under the lead and copper rule
**Values identified as MCLs are Notification Levels or Advisory Levels for constituents lacking MCLs

MCL = Maximum Contaminant Level

MFL = million fibers per liter: MCL for fibers exceeding 10 micrometers in length

mg/L = milligrams per liter (parts per million)

N/A = Not Applicable

Table 12 - Treated Water 2024

| Constituent | Units | PHG | MCL | Quarter 1 | Quarter 2 | Quarter 3 | Quarter 4 | Average |
|---|--------------------------------------|--|------------------------------------|--------------|----------------------|-----------------|-------------|--------------------------|
| | | | ted Organic Ch | emicals | | | | |
| Total Trihalomethanes | mg/L | N/A | 0.080 | | | fer to Attachme | | |
| Haloacetic Acids (HAA5) | mg/L | N/A | 0.060 | | | fer to Attachme | | |
| Benzene | mg/L | 0.00015 | 0.001 | ND | ND | ND | ND | ND |
| Carbon Tetrachloride | mg/L | 0.0001 | 0.0005 | ND | ND | ND | ND | ND |
| 1,2-Dichlorobenzene | mg/L | 0.6 | 0.6 | ND | ND | ND | ND | ND |
| 1,4-Dichlorobenzene | mg/L | 0.006 | 0.005 | ND | ND | ND | ND | ND |
| 1,1-Dichloroethane | mg/L | 0.003 | 0.005 | ND ND | ND ND | ND ND | ND | ND ND |
| 1,2-Dichloroethane 1,1-Dichloroethylene | mg/L | 0.0004 0.01 | 0.0005 0.006 | ND ND | ND ND | ND ND | ND ND | ND ND |
| cis-1,2-Dichloroethylene | mg/L mg/L | 0.013 | 0.006 | ND ND | ND ND | ND ND | ND ND | ND ND |
| trans-1.2-Dichloroethylene | mg/L | 0.013 | 0.000 | ND | ND | ND | ND ND | ND |
| Dichloromethane | mg/L | 0.004 | 0.005 | ND | ND ND | ND ND | ND ND | ND |
| 1,2-Dichloropropane | mg/L | 0.0005 | 0.005 | ND ND | ND ND | ND | ND ND | ND |
| 1,3-Dichloropropene | mg/L | 0.0002 | 0.0005 | ND | ND | ND | ND | ND |
| Ethylbenzene | mg/L | 0.3 | 0.3 | ND | ND | ND | ND | ND |
| Methyl tert-butyl ether | mg/L | 0.013 | 0.013 | ND | ND | ND | ND | ND |
| Monochlorobenzene | mg/L | 0.07 | 0.07 | ND | ND | ND | ND | ND |
| Styrene | mg/L | 0.0005 | 0.1 | ND | ND | ND | ND | ND |
| 1,1,2,2-Tetrachloroethane | mg/L | 0.0001 | 0.001 | ND | ND | ND | ND | ND |
| Tetrachloroethylene | mg/L | 0.00006 | 0.005 | ND | ND | ND | ND | ND |
| Toluene | mg/L | 0.15 | 0.15 | ND | ND | ND | ND | ND |
| 1,2,4-Trichlorobenzene | mg/L | 0.005 | 0.005 | ND | ND | ND | ND | ND |
| 1,1,1-Trichloroethane | mg/L | 1 | 0.200 | ND | ND | ND | ND | ND |
| 1,1,2-Trichloroethane | mg/L | 0.0003 | 0.005 | ND | ND | ND | ND | ND |
| Trichloroethylene | mg/L | 0.0017 | 0.005 | ND | ND | ND | ND | ND |
| Trichlorofluoromethane | mg/L | 1.3 | 0.15 | ND | ND | ND | ND | ND |
| 1,1,2-Trichloro-1,2,2-Trifluoroethane | mg/L | 4 | 1.2 | ND | ND | ND | ND | ND |
| Vinyl Chloride | mg/L | 0.00005 | 0.0005 | ND | ND | ND | ND | ND |
| Xylenes (total) | mg/L | 1.8 | 1.750 | ND | ND | ND | ND | ND |
| | F | Regulated Non-Vol | atile Synthetic | Organic Chem | icals | | | |
| Alachlor | mg/L | 0.004 | 0.002 | - | ND | - | - | N/A |
| Atrazine | mg/L | 0.00015 | 0.001 | - | ND | - | - | N/A |
| Bentazon | mg/L | 0.2 | 0.018 | - | ND | ND | - | N/A |
| Benzo(a)pyrene | mg/L | 0.000007 | 0.0002 | - | ND | - | - | N/A |
| Carbofuran | mg/L | 0.0007 | 0.018 | - | ND | - | - | N/A |
| Chlordane | mg/L | 0.00003 | 0.0001 | - | ND | ND | - | N/A |
| Dalapon | mg/L | 0.79 | 0.2 | - | ND | ND | - | N/A |
| 1,2-Dibromo-3-chloropropane | mg/L | 0.000003 | 0.0002 | ND | ND | ND | ND | ND N/A |
| 2,4-Dichlorophenoxyacetic acid (2,4-D) | mg/L | 0.02 | 0.07 | - | ND | ND | - | N/A |
| Di(2-ethylhexyl)adipate | mg/L | 0.2 | 0.4 | - | ND | - | - | N/A |
| Di(2-ethylhexyl)phthalate Dinoseb | mg/L | 0.012 0.014 | 0.004 0.007 | - | ND ND | - | - | N/A N/A |
| Diquat | mg/L mg/L | 0.014 | 0.007 | - | ND ND | - | - | N/A |
| Endothall | mg/L | 0.000 | 0.02 | - | ND ND | - ND | - | N/A |
| Endrin | mg/L | 0.0003 | 0.002 | - | ND ND | ND ND | - | N/A |
| Ethylene Dibromide | mg/L | 0.00001 | 0.00005 | ND | ND | ND | ND | ND |
| Glyphosate | mg/L | 0.9 | 0.7 | - | ND | - | - | N/A |
| Heptachlor | mg/L | 0.000008 | 0.00001 | - | ND | ND | - | N/A |
| Heptachlor Epoxide | mg/L | 0.000006 | 0.00001 | - | ND | ND | - | N/A |
| Hexachlorobenzene | mg/L | 0.00003 | 0.001 | - | ND | ND | - | N/A |
| Hexachlorocyclopentadiene | mg/L | 0.002 | 0.05 | - | ND | ND | - | N/A |
| Lindane | mg/L | 0.000032 | 0.0002 | - | ND | ND | - | N/A |
| Methoxychlor | mg/L | 0.00009 | 0.03 | - | ND | ND | - | N/A |
| Molinate | mg/L | 0.001 | 0.02 | - | ND | - | - | N/A |
| Oxamyl | mg/L | 0.026 | 0.05 | - | ND | - | - | N/A |
| Pentachlorophenol | mg/L | 0.0003 | 0.001 | - | ND | ND | - | N/A |
| Picloram | ma/l | 0.166 | 0.5 | - | ND | ND | - | N/A |
| | mg/L | | | | NID | NID | | N/A |
| Polychlorinated Biphenyls | mg/L | 0.00009 | 0.0005 | - | ND | ND | - | |
| Polychlorinated Biphenyls Simazine | mg/L mg/L | 0.004 | 0.004 | - | ND | ND - | - | N/A |
| Polychlorinated Biphenyls Simazine Thiobencarb | mg/L mg/L mg/L | 0.004 0.042 | 0.004 0.07 | - - - | ND ND | - | - - - | N/A N/A |
| Polychlorinated Biphenyls Simazine Thiobencarb Toxaphene | mg/L mg/L mg/L mg/L | 0.004 0.042 0.00003 | 0.004 0.07 0.003 | - - - | ND ND ND | - - ND | - - - | N/A N/A N/A |
| Polychlorinated Biphenyls Simazine Thiobencarb Toxaphene 1,2,3-Trichloropropane | mg/L mg/L mg/L mg/L mg/L | 0.004 0.042 0.00003 0.0000007 | 0.004 0.07 0.003 0.000005 | - | ND ND ND ND | - | - - - | N/A N/A N/A N/A |
| Polychlorinated Biphenyls Simazine Thiobencarb Toxaphene | mg/L mg/L mg/L mg/L | 0.004 0.042 0.00003 | 0.004 0.07 0.003 | - | ND ND ND | - - ND | - | N/A N/A N/A |

N/A = Not Applicable

NTU = nephelometric turbidity units

pCi/L = picocuries per liter

PHG = Public Health Goal

^{**}Values identified as MCLs are Notification Levels or Advisory Levels for constituents lacking MCLs

MCL = Maximum Contaminant Level

MFL = million fibers per liter: MCL for fibers exceeding 10 micrometers in length

mg/L = milligrams per liter (parts per million)

Table 12 - Treated Water 2024

| Constituent | Units | PHG | MCL | Quarter 1 | Quarter 2 | Quarter 3 | Quarter 4 | Average |
|--|-------|------------------|-------------------|--------------|-----------|---------------|-----------|---------|
| | | | ated Organic C | | | | | |
| tert-Amyl methyl ether | mg/L | N/A | N/A | ND | ND | ND | ND | ND |
| Bromobenzene | mg/L | N/A | N/A | ND | ND | ND | ND | ND |
| Bromochloromethane | mg/L | N/A | N/A | ND | ND | ND | ND | ND |
| Bromomethane | mg/L | N/A | N/A | ND | ND | ND | ND | ND |
| Tertiary butyl alcohol** | mg/L | N/A | 0.012 | ND | ND | ND | ND | ND |
| n-Butylbenzene** | mg/L | N/A | 0.26 | ND | ND | ND | ND | ND |
| sec-Butylbenzene** | mg/L | N/A | 0.26 | ND | ND | ND | ND | ND |
| tert-Butylbenzene** | mg/L | N/A | 0.26 | ND | ND | ND | ND | ND |
| Chloroethane | mg/L | N/A | N/A | ND | ND | ND | ND | ND |
| Chloromethane | mg/L | N/A | N/A | ND | ND | ND | ND | ND |
| 2-Chlorotoluene** | mg/L | N/A | 0.14 | ND | ND | ND | ND | ND |
| 4-Chlorotoluene** | mg/L | N/A | 0.14 | ND | ND | ND | ND | ND |
| Dibromomethane | mg/L | N/A | N/A | ND | ND | ND | ND | ND |
| 1,3-Dichlorobenzene** | mg/L | N/A | 0.6 | ND | ND | ND | ND | ND |
| Dichlorodifluoromethane** | mg/L | N/A | 1 | ND | ND | ND | ND | ND |
| 1,3-Dichloropropane | mg/L | N/A | N/A | ND | ND | ND | ND | ND |
| 2,2-Dichloropropane | mg/L | N/A | N/A | ND | ND | ND | ND | ND |
| 1,1-Dichloropropene | mg/L | N/A | N/A | ND | ND | ND | ND | ND |
| Diisopropyl ether | mg/L | N/A | N/A | ND | ND | ND | ND | ND |
| Ethyl tert-butyl ether | mg/L | N/A | N/A | ND | ND | ND | ND | ND |
| Hexachlorobutadiene | mg/L | N/A | N/A | ND | ND | ND | ND | ND |
| Isopropylbenzene** | mg/L | N/A | 0.77 | ND | ND | ND | ND | ND |
| p-Isopropyltoluene | mg/L | N/A | N/A | ND | ND | ND | ND | ND |
| Naphthalene** | mg/L | N/A | 0.017 | ND | ND | ND | ND | ND |
| Nitrobenzene | mg/L | N/A | N/A | ND | ND | ND | ND | ND |
| Pentachloroethane | mg/L | N/A | N/A | ND | ND | ND | ND | ND |
| n-Propylbenzene** | mg/L | N/A | 0.26 | ND | ND | ND | ND | ND |
| 1,1,1,2-Tetrachloroethane | mg/L | N/A | N/A | ND | ND | ND | ND | ND |
| 1,2,3-Trichlorobenzene | mg/L | N/A | N/A | ND | ND | ND | ND | ND |
| 1,3,5-Trichlorobenzene | mg/L | N/A | N/A | ND | ND | ND | ND | ND |
| 1,2,3-Trimethylbenzene | mg/L | N/A | N/A | ND | ND | ND | ND | ND |
| 1,2,4-Trimethylbenzene** | mg/L | N/A | 0.33 | ND | ND | ND | ND | ND |
| 1,3,5-Trimethylbenzene** | mg/L | N/A | 0.33 | ND | ND | ND | ND | ND |
| Methyl isobutyl ketone** | mg/L | N/A | 0.12 | ND | ND | ND | ND | ND |
| , , | Un | regulated Non-Vo | olatile Synthetic | Organic Chen | nicals | | | |
| Aldicarb** | mg/L | N/A | 0.007 | - | ND | - | - | N/A |
| Aldicarb Sulfone | mg/L | N/A | N/A | - | ND | - | - | N/A |
| Aldicarb Sulfoxide | mg/L | N/A | N/A | - | ND | - | - | N/A |
| Aldrin** | mg/L | N/A | 0.000002 | - | ND | ND | - | N/A |
| Bromacil | mg/L | N/A | N/A | - | ND | - | - | N/A |
| Butachlor | mg/L | N/A | N/A | _ | ND | _ | - | N/A |
| Carbaryl** | mg/L | N/A | 0.7 | - | ND | - | - | N/A |
| Diazinon** | mg/L | N/A | 0.0012 | - | ND | - | - | N/A |
| Dicamba | mg/L | N/A | N/A | - | ND | ND | _ | N/A |
| Dieldrin** | mg/L | N/A | 0.000002 | - | ND | ND | - | N/A |
| Dimethoate** | mg/L | N/A | 0.001 | - | ND | - | _ | N/A |
| Diuron | mg/L | N/A | N/A | - | - | ND | - | N/A |
| 3-Hydroxycarbofuran | mg/L | N/A | N/A | - | ND | - | - | N/A |
| Methomyl | mg/L | N/A | N/A | _ | ND | - | _ | N/A |
| Metolachlor | mg/L | N/A | N/A | _ | ND | - | _ | N/A |
| Metribuzin | mg/L | N/A | N/A | - | ND ND | - | _ | N/A |
| Propachlor** | mg/L | N/A | 0.09 | _ | ND | _ | _ | N/A |
| 2,4,5-T | mg/L | N/A | N/A | | ND ND | ND | | N/A |
| *Values identified as MCLs are Action Le | | | 14//3 | _ | 1 110 | ND = Not Dete | | 14/73 |

^{*}Values identified as MCLs are Action Levels under the lead and copper rule

N/A = Not Applicable

NTU = nephelometric turbidity units

pCi/L = picocuries per liter

PHG = Public Health Goal

^{**}Values identified as MCLs are Notification Levels or Advisory Levels for constituents lacking MCLs

MCL = Maximum Contaminant Level

MFL = million fibers per liter: MCL for fibers exceeding 10 micrometers in length

mg/L = milligrams per liter (parts per million)

Table 12 - Treated Water 2024

Total Trihalomethanes Monitoring 2024 (State Stage 2 D/DBPR)

| Total Trihalomethanes MCL | 0.080 ppm | | | | |
|---------------------------------|---------------------|---------------------|----------------------|---------------------|------|
| MCL in CCR units | 80 ppb | | | | |
| Location | | 20 | 24 TTHM Results (ppb |) | |
| Location | 1 st Qtr | 2 nd Qtr | 3 rd Qtr | 4 th Qtr | LRAA |
| Site 1: 1022 Sequoia Street | 15.6 | 25.7 | 32.4 | 68.3 | 35.5 |
| Site 2: Francis Street Alley | 17.8 | 24.5 | 32.4 | 72.3 | 36.8 |
| Site 3: NOR Terminal Tank Inlet | 22.1 | 59.9 | 29.4 | 69.4 | 45.2 |
| Site 4: North King & Jeffrey | 21.7 | 32.5 | 37.3 | 86.4 | 44.5 |
| Site 5: Wenatchee Pump Station | 23.3 | 32.6 | 34.9 | 95.3 | 46.5 |
| Site 6: Oswell Large Tank | 37.5 | 67.4 | 39.4 | 94.0 | 59.6 |
| Site 7: Oswell Pump Station | 23.4 | 37.5 | 36.8 | 91.7 | 47.4 |
| Site 8: Seven Seas | 28.6 | 36.0 | 34.4 | 83.6 | 45.7 |
| Site 9: Meany & Alken | 26.5 | 34.7 | 34.1 | 86.3 | 45.4 |
| Site 10: Meany & Coffee | 27.3 | 36.7 | 35.2 | 84.8 | 46.0 |

CCR Table Excerpt

| Contaminant | MCL | PHG (or | Highest | Pango | Sample | Violetien | Typical Source | | |
|-------------|-------|---------|---------|-------------|--------|-----------|--|--|--|
| (CCR units) | IVICL | MCLG) | LRAA | Range | Date | Violation | Typical Source | | |
| TTHM (ppb) | 80 | N/A | 59.6 | 15.6 - 95.3 | 2024 | No | Byproduct of drinking water disinfection | | |

Haloacetic Acids Monitoring 2024 (State Stage 2 D/DBPR)

| Haloacetic Acids MCL | 0.060 ppm | | | | | | | | | | |
|---------------------------------|---------------------|-------------------------|---------------------|---------------------|------|--|--|--|--|--|--|
| MCL in CCR units | 60 ppb | | | | | | | | | | |
| Location | | 2024 HAA5 Results (ppb) | | | | | | | | | |
| Location | 1 st Qtr | 2 nd Qtr | 3 rd Qtr | 4 th Qtr | LRAA | | | | | | |
| Site 1: 1022 Sequoia Street | 16.5 | 23.6 | 28.0 | 36.7 | 26.2 | | | | | | |
| Site 2: Francis Street Alley | 15.8 | 24.0 | 30.8 | 19.1 | 22.4 | | | | | | |
| Site 3: NOR Terminal Tank Inlet | 18.6 | 48.6 | 29.5 | 22.0 | 29.7 | | | | | | |
| Site 4: North King & Jeffrey | 19.4 | 32.2 | 32.2 | 40.1 | 31.0 | | | | | | |
| Site 5: Wenatchee Pump Station | 22.0 | 33.3 | 34.5 | 30.1 | 30.0 | | | | | | |
| Site 6: Oswell Large Tank | 41.4 | 48.5 | 44.4 | 18.5 | 38.2 | | | | | | |
| Site 7: Oswell Pump Station | 20.2 | 35.6 | 31.9 | 28.5 | 29.1 | | | | | | |
| Site 8: Seven Seas | 23.8 | 33.8 | 30.6 | 36.7 | 31.2 | | | | | | |
| Site 9: Meany & Alken | 24.1 | 31.1 | 33.8 | 26.6 | 28.9 | | | | | | |
| Site 10: Meany & Coffee | 25.6 | 32.6 | 34.2 | 26.6 | 29.8 | | | | | | |

CCR Table Excerpt

| Contaminant | MCI | PHG (or | Highest | Range | Sample | Violation | Typical Course | |
|-------------|-----|---------|---------|-------------|--------|-----------|--|--|
| (CCR units) | MCL | MCLG) | LRAA | Nange | Date | violation | Typical Source | |
| HAA5 (ppb) | 60 | N/A | 38.2 | 15.8 - 48.5 | 2024 | No | Byproduct of drinking water disinfection | |

CCR = Consumer Confidence Report

LRAA = Locational Running Annual Average

MCL = Maximum Contaminant Level

MCLG = Maximum Contaminant Level Goal

N/A = Not Applicable

PHG = Public Health Goal

ppb = parts per billion

ppm = parts per million

Table 13 - Source 2024

| Aluminum Antimony Arsenic Asbestos Barium Beryllium Cadmium Chromium, Hexavalent Chromium, Total Cyanide Fluoride Lead** Mercury Nickel Nitrate (as N) Nitrite (as Nitrogen, N) Nitrate + Nitrite (sum as Nitrogen, N) Perchlorate Selenium | mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/L | 0.6 0.001 0.000004 7 2 0.001 0.00004 0.00002 N/A 0.15 1 0.0002 0.0012 | MCL* ganic Chemicals 1 0.006 0.010 7 1 0.004 0.005 0.01 0.05 0.15 2 | 0.154 | 0.081 ND 0.003 ND ND ND ND ND | Aqueduct 0.640 ND ND ND ND ND ND ND ND ND N | 0.336 ND 0.003 ND ND ND |
|---|--|---|---|---|--|--|--|
| Antimony Arsenic Asbestos Barium Beryllium Cadmium Chromium, Hexavalent Chromium, Total Cyanide Fluoride Lead** Mercury Nickel Nitrate (as N) Nitrite (as Nitrogen, N) Perchlorate Selenium | mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/L | 0.6 0.001 0.000004 7 2 0.001 0.00004 0.00002 N/A 0.15 1 0.0002 0.0012 | 1 0.006 0.010 7 1 0.004 0.005 0.01 0.05 0.15 | ND ND ND ND ND ND ND 0.00006 | ND 0.003 ND ND ND ND | ND ND ND ND ND ND | ND 0.003 ND ND ND |
| Antimony Arsenic Asbestos Barium Beryllium Cadmium Chromium, Hexavalent Chromium, Total Cyanide Fluoride Lead** Mercury Nickel Nitrate (as N) Nitrite (as Nitrogen, N) Perchlorate Selenium | mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/L | 0.001 0.000004 7 2 0.001 0.00004 0.00002 N/A 0.15 1 0.0002 0.0002 | 0.006 0.010 7 1 0.004 0.005 0.01 0.05 0.15 2 | ND ND ND ND ND ND ND 0.00006 | ND 0.003 ND ND ND ND | ND ND ND ND ND ND | ND 0.003 ND ND ND |
| Arsenic Asbestos Barium Beryllium Cadmium Chromium, Hexavalent Chromium, Total Cyanide Fluoride Lead** Mercury Nickel Nitrate (as N) Nitrite (as Nitrogen, N) Perchlorate Selenium | mg/L MFL mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/ | 0.000004 7 2 0.0001 0.00004 0.00002 N/A 0.15 1 0.0002 0.0002 | 0.010 7 1 0.004 0.005 0.01 0.05 0.15 2 | ND ND ND ND ND 0.00006 | 0.003 ND ND ND ND | ND ND ND ND | 0.003 ND ND ND |
| Asbestos Barium Beryllium Cadmium Chromium, Hexavalent Chromium, Total Cyanide Fluoride Lead** Mercury Nickel Nitrate (as N) Nitrite (as Nitrogen, N) Nitrite + Nitrite (sum as Nitrogen, N) Perchlorate Selenium | MFL mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/ | 7 2 0.001 0.00004 0.00002 N/A 0.15 1 0.0002 0.0012 | 7 1 0.004 0.005 0.01 0.05 0.15 2 | ND ND ND ND 0.00006 | ND ND ND ND | ND ND ND ND | ND ND ND |
| Barium Beryllium Cadmium Chromium, Hexavalent Chromium, Total Cyanide Fluoride Lead** Mercury Nickel Nitrate (as N) Nitrite (as Nitrogen, N) Nitrite + Nitrite (sum as Nitrogen, N) Perchlorate Selenium | mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/L | 2 0.001 0.00004 0.00002 N/A 0.15 1 0.0002 0.0012 | 1 0.004 0.005 0.01 0.05 0.15 | ND ND ND 0.00006 0.001 | ND ND ND | ND ND ND | ND ND |
| Beryllium Cadmium Chromium, Hexavalent Chromium, Total Cyanide Fluoride Lead** Mercury Nickel Nitrate (as N) Nitrite (as Nitrogen, N) Perchlorate Selenium | mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/L | 0.001 0.00004 0.00002 N/A 0.15 1 0.0002 0.0012 | 0.004 0.005 0.01 0.05 0.15 | ND ND 0.00006 0.001 | ND ND - | ND ND | ND |
| Cadmium Chromium, Hexavalent Chromium, Total Cyanide Fluoride Lead** Mercury Nickel Nitrate (as N) Nitrite (as Nitrogen, N) Perchlorate Selenium | mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/L | 0.00004 0.00002 N/A 0.15 1 0.0002 0.0012 | 0.005 0.01 0.05 0.15 2 | ND 0.00006 0.001 | ND - | ND | |
| Chromium, Hexavalent Chromium, Total Cyanide Fluoride Lead** Mercury Nickel Nitrate (as N) Nitrite (as Nitrogen, N) Perchlorate Selenium | mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/L | 0.00002 N/A 0.15 1 0.0002 0.0012 | 0.01 0.05 0.15 2 | 0.00006 0.001 | - | | ND |
| Chromium, Total Cyanide Fluoride Lead** Mercury Nickel Nitrate (as N) Nitrite (as Nitrogen, N) Nitrate + Nitrite (sum as Nitrogen, N) Perchlorate Selenium | mg/L mg/L mg/L mg/L mg/L mg/L mg/L | N/A 0.15 1 0.0002 0.0012 | 0.05 0.15 2 | 0.001 | ND | 0.00010 | ND |
| Cyanide Fluoride Lead** Mercury Nickel Nitrate (as N) Nitrite (as Nitrogen, N) Nitrite + Nitrite (sum as Nitrogen, N) Perchlorate Selenium | mg/L mg/L mg/L mg/L mg/L mg/L | 0.15 1 0.0002 0.0012 | 0.15 2 | | | 0.002 | 0.001 |
| Fluoride Lead** Mercury Nickel Nitrate (as N) Nitrite (as Nitrogen, N) Nitrite + Nitrite (sum as Nitrogen, N) Perchlorate Selenium | mg/L mg/L mg/L mg/L mg/L | 1 0.0002 0.0012 | 2 | עמו | - | ND | ND |
| Lead** Mercury Nickel Nitrate (as N) Nitrite (as Nitrogen, N) Nitrate + Nitrite (sum as Nitrogen, N) Perchlorate Selenium | mg/L mg/L mg/L mg/L | 0.0012 | | ND | 0.10 | ND | 0.20 |
| Nickel Nitrate (as N) Nitrite (as Nitrogen, N) Nitrate + Nitrite (sum as Nitrogen, N) Perchlorate Selenium | mg/L mg/L mg/L | | 0.015 | ND | ND | ND | ND |
| Nitrate (as N) Nitrite (as Nitrogen, N) Nitrate + Nitrite (sum as Nitrogen, N) Perchlorate Selenium | mg/L | | 0.002 | ND | ND | ND | ND |
| Nitrite (as Nitrogen, N) Nitrate + Nitrite (sum as Nitrogen, N) Perchlorate Selenium | mg/L | 0.012 | 0.1 | ND | ND | ND | ND |
| Nitrate + Nitrite (sum as Nitrogen, N) Perchlorate Selenium | ma er /1 | 10 | 10 | ND | 0.28 | 0.44 | ND |
| Nitrate + Nitrite (sum as Nitrogen, N) Perchlorate Selenium | mg/L | 1 | 1 | ND | ND | ND | ND |
| Perchlorate Selenium | mg/L | 10 | 10 | ND | 0.28 | 0.44 | ND |
| | mg/L | 0.001 | 0.006 | ND | | ND | ND |
| | mg/L | 0.03 | 0.05 | ND | ND | ND | ND |
| Thallium | mg/L | 0.0001 | 0.002 | ND | ND | ND | ND |
| | , <u>.</u> | | ary Standards | | | | |
| Aluminum | mg/L | N/A | 0.2 | 0.154 | 0.081 | 0.640 | 0.336 |
| Color | Units | N/A | 15 | 12.5 | 10 | 20 | 10 |
| Copper** | mg/L | 0.3 | 1.3 | ND | ND | ND | ND |
| Foaming Agents (MBAS) | mg/L | N/A | 0.5 | ND | - | ND | ND |
| Iron | mg/L | N/A | 0.3 | 0.19 | ND | 0.59 | 0.28 |
| Manganese | mg/L | N/A | 0.05 | ND | ND | 0.04 | 0.05 |
| Methyl tert-butyl ether | mg/L | N/A | 0.005 | ND | ND | ND | ND |
| Odor | Units | N/A | 3 | 4 | 6 | 6 | 4 |
| Silver | mg/L | N/A | 0.1 | ND | ND | ND | ND |
| Thiobencarb | mg/L | N/A | 0.001 | ND | - | ND | ND |
| Turbidity | Units | N/A | 5 | 3.5 | 2.5 | 9.8 | 6.4 |
| Zinc | mg/L | N/A | 5.0 | ND | ND | ND | ND |
| Total Dissolved Solids | mg/L | N/A | 1000 | 33 | 170 | 211 | 99 |
| Specific Conductance | uS/cm | N/A | 1600 | 44 | 301 | 378 | 166 |
| Chloride | mg/L | N/A | 500 | 2.09 | 34.1 | 44.7 | 4.06 |
| Sulfate | mg/L | N/A | 500 | 0.96 | 23.9 | 39.1 | 10.6 |
| | | | al Minerals | | | | |
| Total Alkalinity (as CaCO ₃) | mg/L | N/A | N/A | 20 | 73 | 68 | 64 |
| Bicarbonate | mg/L | N/A | N/A | 24.4 | 76.9 | 83.0 | 78.1 |
| Carbonate | mg/L | N/A | N/A | ND | 12 | ND | ND |
| Hydroxide | mg/L | N/A | N/A | ND | ND | ND | ND |
| Total Hardness (as CaCO ₃) | mg/L | N/A | N/A | 10.3 | 74.0 | 90.4 | 53.2 |
| Calcium | mg/L | N/A | N/A | 4.13 | 18.8 | 18.7 | 16.3 |
| Magnesium | mg/L | N/A | N/A | ND | 6.59 | 10.6 | 3.07 |
| Sodium | mg/L | N/A | N/A | 5.31 | 25.7 | 39.7 | 13.2 |
| Potassium | mg/L | N/A | N/A | 1.37 | 2.32 | 3.36 | 2.29 |
| pH | Units | N/A | N/A | 7.48 | 8.76 | 8.15 | 7.92 |
| A | | | nal Analyses | ND I | 0.05 | I ND | ND |
| Ammonia | mg/L | N/A | N/A | ND ND | 0.05 | ND 0.10 | ND 0.42 |
| Boron*** | mg/L | N/A | 1 | ND ND | - | 0.19 | 0.12 |
| Bromide | mg/L | N/A | N/A | ND ND | 0.09 | 0.12 | 0.01 |
| Phosphate | mg/L | N/A | N/A | ND | ND 14.0 | ND 10.4 | ND |
| Silica | mg/L | N/A | N/A | 7.43 | 14.0 | 10.4 | 11.8 |
| Total Organic Carbon | mg/L | N/A | N/A | 1.8 | 2.7 | 3.7 | 2.7 |
| Vanadium*** | mg/L | N/A | 0.05 ioactivity | ND | - | 0.004 | ND |
| Gross Alpha | pCi/L | N/A | 15 | 0.355 | - | 2.64 | 4.10 |
| Gross Beta | | N/A N/A | 4 | | <u> </u> | 2.04 | 4.10 |
| | mrem/yr | 0.05 | N/A | - | | | |
| Radium 226 Radium 228 | pCi/L pCi/L | 0.05 | N/A N/A | - | - | - | - |
| Radium 226 + Radium 228 | pCi/L pCi/L | 0.019 N/A | 5 | | - | - | - |
| Strontium-90 | pCi/L pCi/L | 0.35 | 8 | - | | - | - |
| | pCi/L pCi/L | 400 | 20,000 | - | <u>-</u> | - | - |
| | | 0.43 | 20,000 | - | | | |
| Tritium Uranium | pCi/L | | ,//1 | | - | _ | - |

ND = Not Detected

NTU = nephelometric turbidity units pCi/L = picocuries per liter PHG = Public Health Goal

^{**}Values identified as MCLs are Action Levels under the lead and copper rule

***Values identified as MCLs are Action Levels or Advisory Levels for constituents lacking MCLs

MCL = Maximum Contaminant Level

MFL = million fibers per liter: MCL for fibers exceeding 10 micrometers in length

mg/L = milligrams per liter (parts per million) mrem/yr = millirems per year

Table 13 - Source 2024

| Compliturent | Huita | PHG* | MCL* | | Soi | urce | | |
|--|-------|---------------------------------|--------------------|-------------|------------------|----------|------------|--|
| Constituent | Units | PnG" | MCL. | Friant-Kern | CVC | Aqueduct | Kern River | |
| | | | e Organic Chemical | | | | | |
| Benzene | mg/L | 0.00015 | 0.001 | ND | ND | ND | ND | |
| Carbon Tetrachloride | mg/L | 0.0001 | 0.0005 | ND | ND | ND | ND | |
| 1,2-Dichlorobenzene | mg/L | 0.6 | 0.6 | ND | ND | ND | ND | |
| 1,4-Dichlorobenzene | mg/L | 0.006 | 0.005 | ND | ND | ND | ND | |
| 1,1-Dichloroethane | mg/L | 0.003 | 0.005 | ND | ND | ND | ND | |
| 1,2-Dichloroethane | mg/L | 0.0004 | 0.0005 | ND | ND | ND | ND | |
| 1,1-Dichloroethylene | mg/L | 0.01 | 0.006 | ND | ND | ND | ND | |
| cis-1,2-Dichloroethylene | mg/L | 0.013 | 0.006 | ND | ND | ND | ND | |
| trans-1,2-Dichloroethylene | mg/L | 0.05 | 0.01 | ND | ND | ND | ND | |
| Dichloromethane | mg/L | 0.004 | 0.005 | ND | ND | ND | ND | |
| 1,2-Dichloropropane | mg/L | 0.0005 | 0.005 | ND | ND | ND | ND | |
| 1,3-Dichloropropene | mg/L | 0.0002 | 0.0005 | ND | ND | ND | ND | |
| Ethylbenzene | mg/L | 0.3 | 0.3 | ND | ND | ND | ND | |
| Methyl tert-butyl ether | mg/L | 0.013 | 0.013 | ND | ND | ND | ND | |
| Monochlorobenzene | mg/L | 0.07 | 0.07 | ND | ND | ND | ND | |
| Styrene | mg/L | 0.0005 | 0.1 | ND | ND | ND | ND | |
| 1,1,2,2-Tetrachloroethane | mg/L | 0.0001 | 0.001 | ND | ND | ND | ND | |
| Tetrachloroethylene | mg/L | 0.00006 | 0.005 | ND | ND | ND | ND ND | |
| Toluene | mg/L | 0.000 | 0.15 | ND | ND | ND | ND | |
| 1.2.4-Trichlorobenzene | mg/L | 0.005 | 0.005 | ND ND | ND | ND | ND | |
| 1,1,1-Trichloroethane | mg/L | 1 | 0.200 | ND ND | ND | ND ND | ND ND | |
| 1,1,2-Trichloroethane | mg/L | 0.0003 | 0.005 | ND ND | ND | ND ND | ND ND | |
| Trichloroethylene | mg/L | 0.0003 | 0.005 | ND ND | ND ND | ND ND | ND ND | |
| Trichlorofluoromethane | mg/L | 1.3 | 0.15 | ND ND | ND | ND | ND | |
| 1,1,2-Trichloro-1,2,2-Trifluoroethane | mg/L | 4 | 1.2 | ND ND | ND | ND ND | ND ND | |
| Vinyl Chloride | | 0.00005 | 0.0005 | ND ND | ND ND | ND ND | ND ND | |
| Xylenes (total) | mg/L | 1.8 | 1.750 | ND ND | ND ND | ND ND | ND ND | |
| Ayleries (total) | mg/L | | | | ND | ND | ND | |
| Alaahlar | | gulated Non-Volatile S 0.004 | | | | ND | ND | |
| Alachlor Atrazine | mg/L | 0.004 | 0.002 0.001 | ND ND | - | ND ND | ND ND | |
| Bentazon | mg/L | 0.00013 | 0.001 | ND ND | | ND ND | ND ND | |
| | mg/L | 0.00007 | 0.002 | ND ND | | ND ND | ND ND | |
| Benzo(a)pyrene Carbofuran | mg/L | 0.00007 | 0.0002 | ND ND | - | ND ND | ND ND | |
| | mg/L | 0.0007 | 0.0001 | ND ND | | ND ND | ND ND | |
| Chlordane | mg/L | | | | - | | | |
| Dalapon | mg/L | 0.79 | 0.2 | ND | - | ND | ND | |
| 1,2-Dibromo-3-chloropropane | mg/L | 0.000003 | 0.0002 | ND | ND | ND | ND | |
| 2,4-Dichlorophenoxyacetic acid (2,4-D) | mg/L | 0.02 | 0.07 | ND | - | ND | ND | |
| Di(2-ethylhexyl)adipate | mg/L | 0.2 | 0.4 | ND | - | ND | ND | |
| Di(2-ethylhexyl)phthalate | mg/L | 0.012 | 0.004 | ND | - | ND | ND | |
| Dinoseb | mg/L | 0.014 | 0.007 | ND | - | ND | ND | |
| Diquat | mg/L | 0.006 | 0.02 | ND | - | ND | ND | |
| Endothall | mg/L | 0.094 | 0.1 | ND | - | ND | ND | |
| Endrin | mg/L | 0.0003 | 0.002 | ND | - | ND | ND | |
| Ethylene Dibromide | mg/L | 0.00001 | 0.00005 | ND | ND | ND | ND | |
| Glyphosate | mg/L | 0.9 | 0.7 | ND | - | ND | ND | |
| Heptachlor | mg/L | 0.000008 | 0.00001 | ND | - | ND | ND | |
| Heptachlor Epoxide | mg/L | 0.000006 | 0.00001 | ND | - | ND | ND | |
| Hexachlorobenzene | mg/L | 0.00003 | 0.001 | ND | - | ND | ND | |
| Hexachlorocyclopentadiene | mg/L | 0.002 | 0.05 | ND | - | ND | ND | |
| Lindane | mg/L | 0.000032 | 0.0002 | ND | - | ND | ND | |
| Methoxychlor | mg/L | 0.00009 | 0.03 | ND | • | ND | ND | |
| Molinate | mg/L | 0.001 | 0.02 | ND | - | ND | ND | |
| Oxamyl | mg/L | 0.026 | 0.05 | ND | 1 | ND | ND | |
| Pentachlorophenol | mg/L | 0.0003 | 0.001 | ND | 1 | ND | ND | |
| Picloram | mg/L | 0.166 | 0.5 | ND | - | ND | ND | |
| Polychlorinated Biphenyls | mg/L | 0.00009 | 0.0005 | ND | - | ND | ND | |
| Simazine | mg/L | 0.004 | 0.004 | ND | - | ND | ND | |
| Thiobencarb | mg/L | 0.042 | 0.07 | ND | - | ND | ND | |
| Toxaphene | mg/L | 0.00003 | 0.003 | ND | - | ND | ND | |
| 1,2,3-Trichloropropane | mg/L | 0.0000007 | 0.000005 | ND | - | ND | ND | |
| 2,3,7,8-TCDD (Dioxin) | mg/L | 0.00000000005 | 0.0000003 | waived | - | waived | waived | |
| 2,4,5-TP (Silvex) | mg/L | 0.003 | 0.05 | ND | - | ND | ND | |
| *Applicable to treated water only | | | | • | N/A = Not Applic | oblo | | |

ND = Not Detected

NTU = nephelometric turbidity units

pCi/L = picocuries per liter

PHG = Public Health Goal

^{*}Applicable to treated water only

**Values identified as MCLs are Action Levels under the lead and copper rule

***Values identified as MCLs are Notification Levels or Advisory Levels for constituents lacking MCLs MCL = Maximum Contaminant Level

MFL = million fibers per liter: MCL for fibers exceeding 10 micrometers in length

mg/L = milligrams per liter (parts per million) mrem/yr = millirems per year

Table 13 - Source 2024

| 0 | 11-24- | DUO* | MOI + | | So | urce | | |
|-----------------------------------|--------------|------------|----------------------|-------------|------------------|----------|------------|--|
| Constituent | Units | PHG* | MCL* | Friant-Kern | CVC | Aqueduct | Kern River | |
| | | | atile Organic Chemi | | | | | |
| tert-Amyl methyl ether | mg/L | N/A | N/A | ND | ND | ND | ND | |
| Bromobenzene | mg/L | N/A | N/A | ND | ND | ND | ND | |
| Bromochloromethane | mg/L | N/A | N/A | ND | ND | ND | ND | |
| Bromomethane | mg/L | N/A | N/A | ND | ND | ND | ND | |
| Tertiary butyl alcohol*** | mg/L | N/A | 0.012 | ND | ND | ND | ND | |
| n-Butylbenzene*** | mg/L | N/A | 0.26 | ND | ND | ND | ND | |
| sec-Butylbenzene*** | mg/L | N/A | 0.26 | ND | ND | ND | ND | |
| tert-Butylbenzene*** | mg/L | N/A | 0.26 | ND | ND | ND | ND | |
| Chloroethane | mg/L | N/A | N/A | ND | ND | ND | ND | |
| Chloromethane | mg/L | N/A | N/A | ND | ND | ND | ND | |
| 2-Chlorotoluene*** | mg/L | N/A | 0.14 | ND | ND | ND | ND | |
| 4-Chlorotoluene*** | mg/L | N/A | 0.14 | ND | ND | ND | ND | |
| Dibromomethane | mg/L | N/A | N/A | ND | ND | ND | ND | |
| 1,3-Dichlorobenzene*** | mg/L | N/A | 0.6 | ND | ND | ND | ND | |
| Dichlorodifluoromethane*** | mg/L | N/A | 1 | ND | ND | ND | ND | |
| 1,3-Dichloropropane | mg/L | N/A | N/A | ND | ND | ND | ND | |
| 2,2-Dichloropropane | mg/L | N/A | N/A | ND | ND | ND | ND | |
| 1,1-Dichloropropene | mg/L | N/A | N/A | ND | ND | ND | ND | |
| Diisopropyl ether | mg/L | N/A | N/A | ND | ND | ND | ND | |
| Ethyl tert-butyl ether | mg/L | N/A | N/A | ND | ND | ND | ND | |
| Hexachlorobutadiene | mg/L | N/A | N/A | ND | ND | ND | ND | |
| Isopropylbenzene*** | mg/L | N/A | 0.77 | ND | ND | ND | ND | |
| p-Isopropyltoluene | mg/L | N/A | N/A | ND | ND | ND | ND | |
| Naphthalene*** | mg/L | N/A | 0.017 | ND | ND | ND | ND | |
| Nitrobenzene | mg/L | N/A | N/A | ND | ND | ND | ND | |
| Pentachloroethane | mg/L | N/A | N/A | ND | ND | ND | ND | |
| n-Propylbenzene*** | mg/L | N/A | 0.26 | ND | ND | ND | ND | |
| 1,1,1,2-Tetrachloroethane | mg/L | N/A | N/A | ND | ND | ND | ND | |
| 1,2,3-Trichlorobenzene | mg/L | N/A | N/A | ND | ND | ND | ND | |
| 1,3,5-Trichlorobenzene | mg/L | N/A | N/A | ND | ND | ND | ND | |
| 1,2,3-Trimethylbenzene | mg/L | N/A | N/A | ND | ND | ND | ND | |
| 1,2,4-Trimethylbenzene*** | mg/L | N/A | 0.33 | ND | ND | ND | ND | |
| 1,3,5-Trimethylbenzene*** | mg/L | N/A | 0.33 | ND | ND | ND | ND | |
| Methyl isobutyl ketone*** | mg/L | N/A | 0.12 | ND ND | ND | ND | ND | |
| A I al: | | | le Synthetic Organic | | | L | NID. | |
| Aldicarb*** Aldicarb Sulfone | mg/L | N/A N/A | 0.007 | ND ND | - | ND ND | ND ND | |
| Aldicarb Sulfoxide | mg/L | N/A | N/A N/A | ND ND | - | ND ND | ND ND | |
| Aldrin*** | mg/L | N/A | 0.000002 | ND ND | | ND ND | ND ND | |
| | mg/L | N/A | 0.000002 N/A | ND ND | | ND ND | ND ND | |
| Bromacil Butachlor | mg/L | N/A N/A | N/A N/A | ND ND | <u> </u> | ND ND | ND ND | |
| Carbaryl*** | mg/L | N/A | 0.7 | ND ND | | ND ND | ND ND | |
| Diazinon*** | mg/L | N/A | 0.0012 | ND ND | - | ND ND | ND ND | |
| Dicamba | mg/L | N/A N/A | 0.0012 N/A | ND ND | | ND ND | ND ND | |
| Dieldrin*** | mg/L | N/A | 0.000002 | ND ND | - | ND ND | ND ND | |
| Dimethoate*** | mg/L mg/L | N/A | 0.00002 | ND ND | | ND ND | ND ND | |
| Diuron | | N/A | 0.001 N/A | ND ND | | ND | ND ND | |
| 3-Hydroxycarbofuran | mg/L mg/L | N/A N/A | N/A N/A | ND ND | - | ND ND | ND ND | |
| Methomyl | mg/L | N/A | N/A N/A | ND ND | | ND ND | ND ND | |
| Metolachlor | mg/L | N/A | N/A N/A | ND ND | | ND ND | ND ND | |
| Metribuzin | mg/L | N/A N/A | N/A N/A | ND ND | | ND ND | ND ND | |
| Propachlor*** | mg/L | N/A | 0.09 | ND ND | - | ND ND | ND ND | |
| 2,4,5-T | mg/L | N/A | N/A | ND ND | | ND | ND ND | |
| *Applicable to treated water only | ilig/L | 11// | IN/A | | N/A = Not Applic | | 140 | |

N/A = Not Applicable ND = Not Detected

NTU = nephelometric turbidity units pCi/L = picocuries per liter

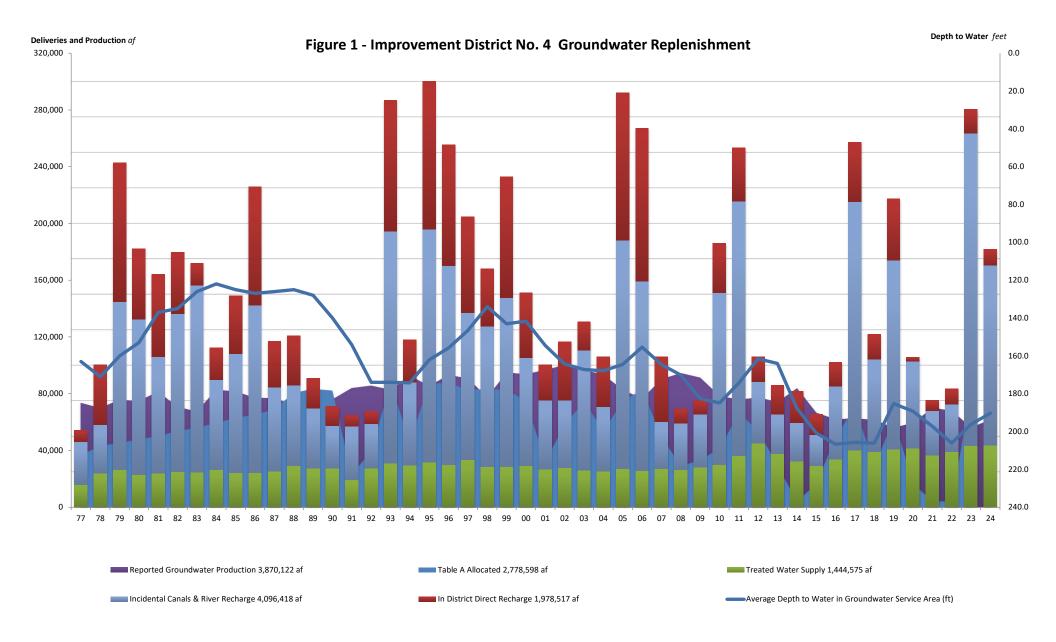
PHG = Public Health Goal

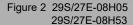
^{*}Applicable to treated water only
**Values identified as MCLs are Action Levels under the lead and copper rule
***Values identified as MCLs are Notification Levels or Advisory Levels for constituents lacking MCLs

MCL = Maximum Contaminant Level

MFL = million fibers per liter: MCL for fibers exceeding 10 micrometers in length

mg/L = milligrams per liter (parts per million) mrem/yr = millirems per year





Improvement District No. 4 29S/27E-08H05 (29S/27E-08H53)







Improvement District No. 4





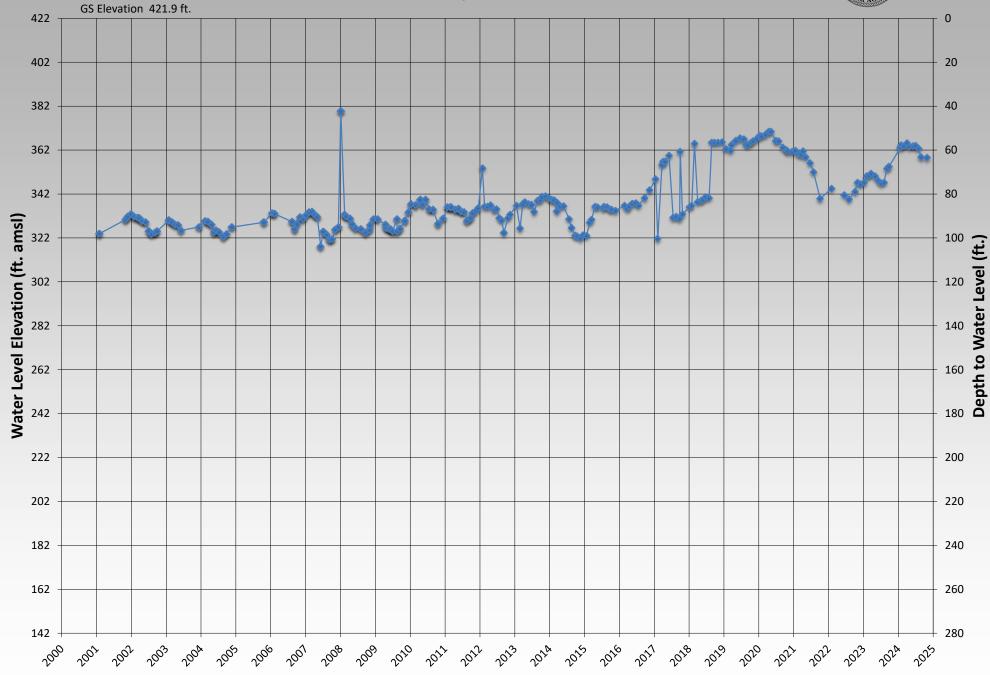
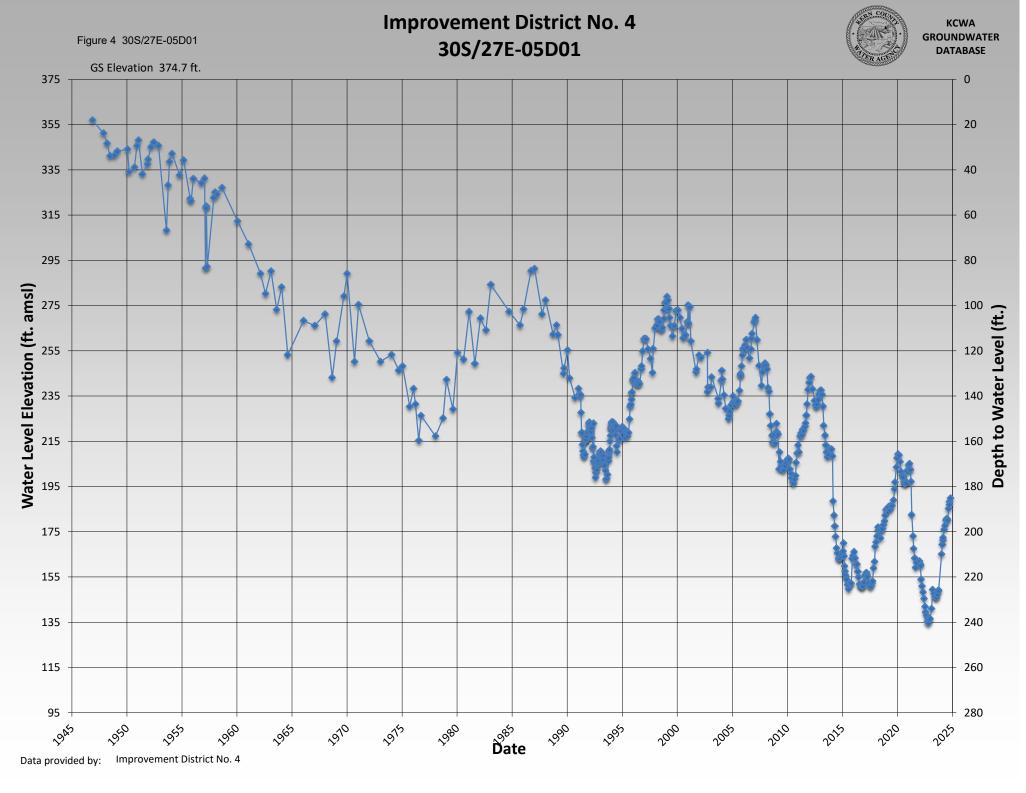


Figure 3 29S/28E-18K01

Date



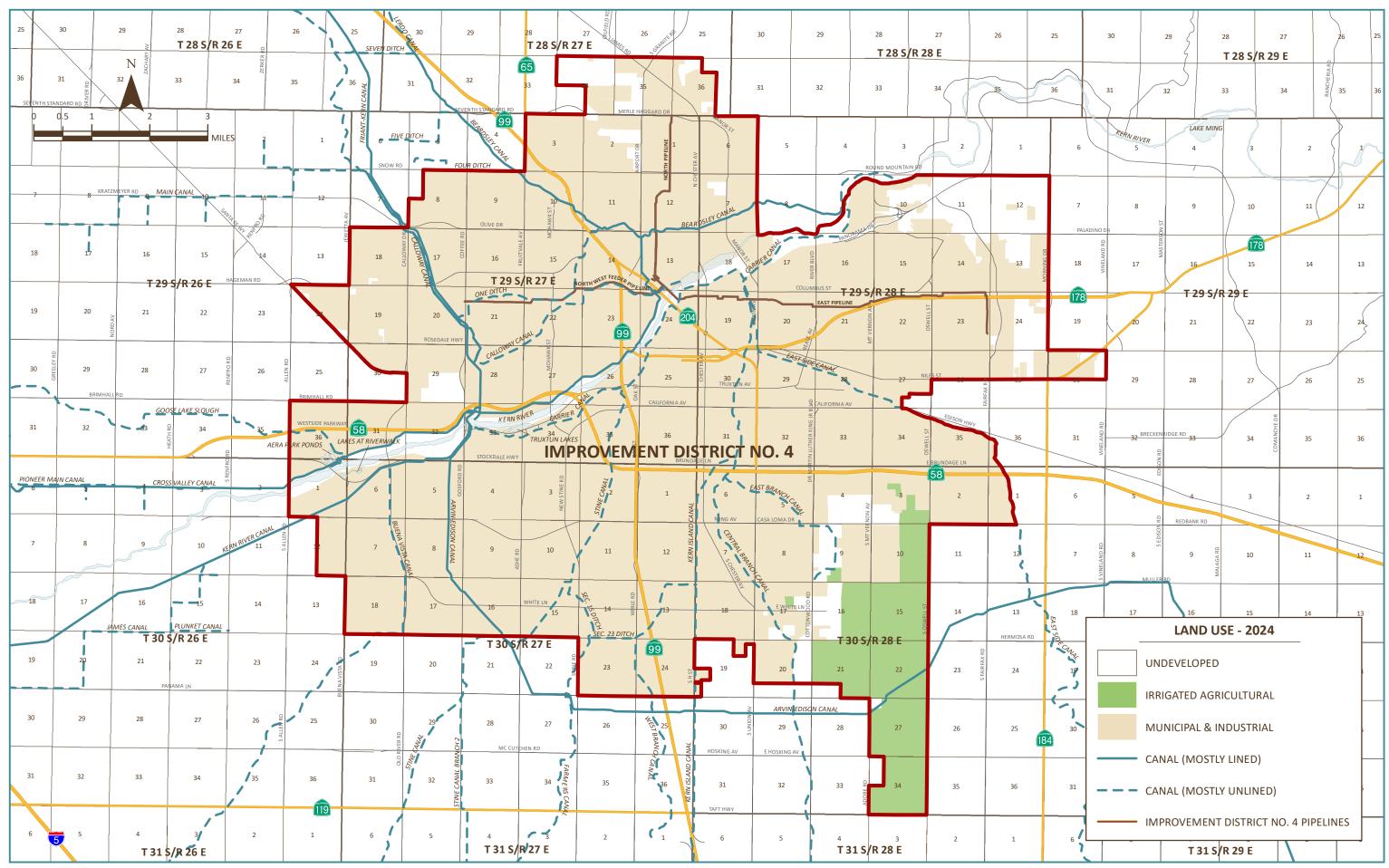




KCWA GROUNDWATER DATABASE

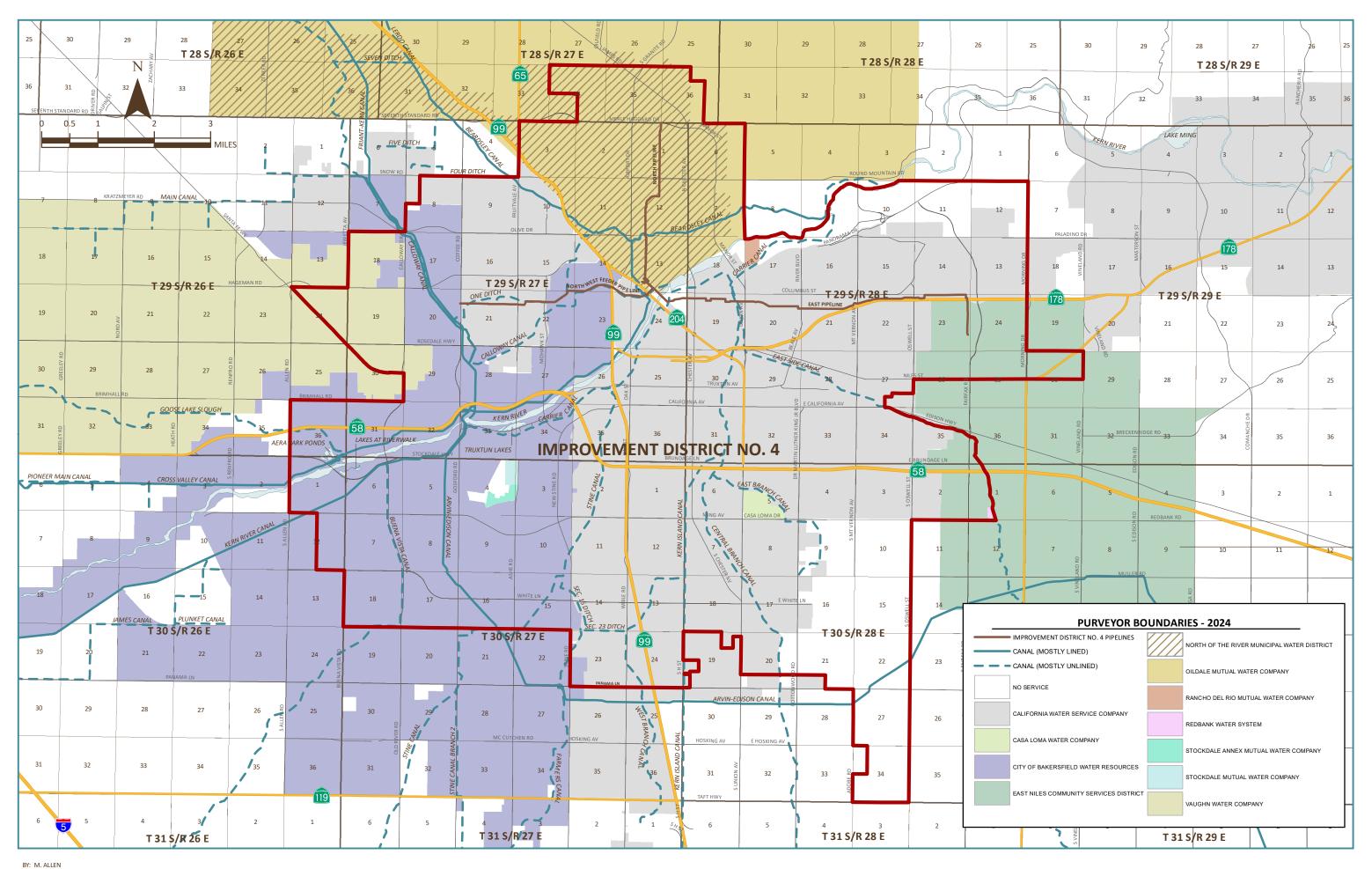


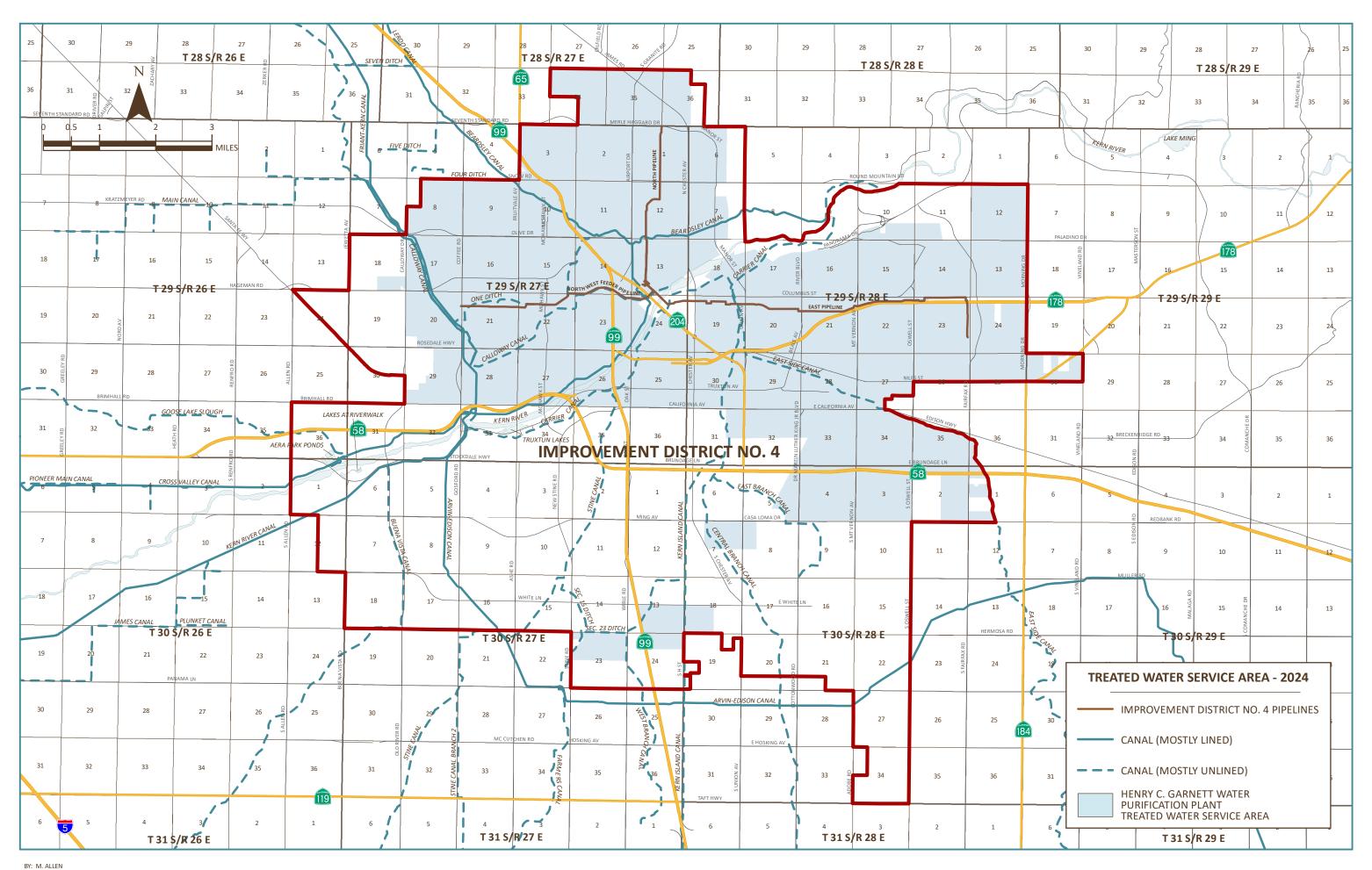
Figure 5 30S/28E-03D01

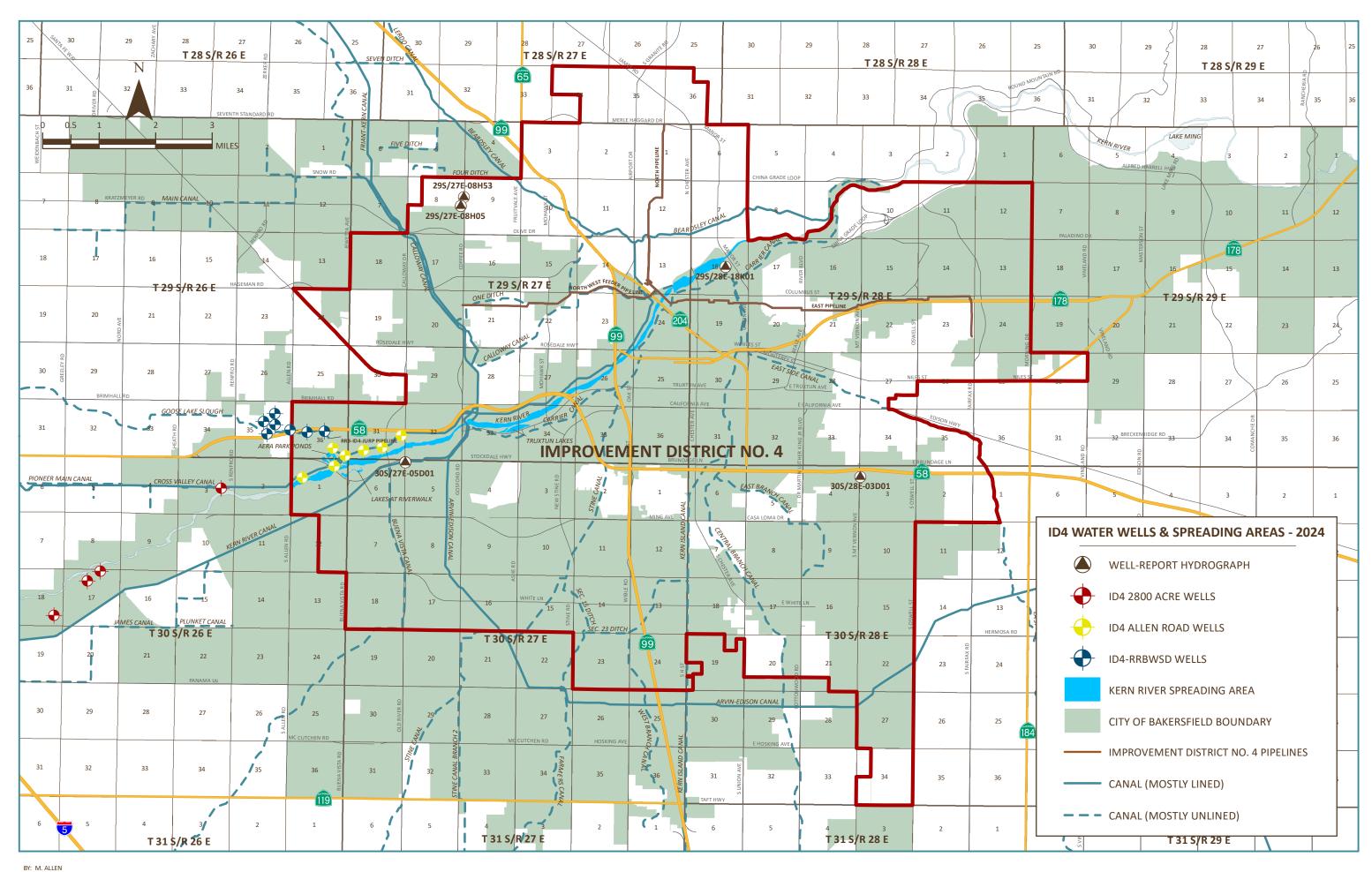


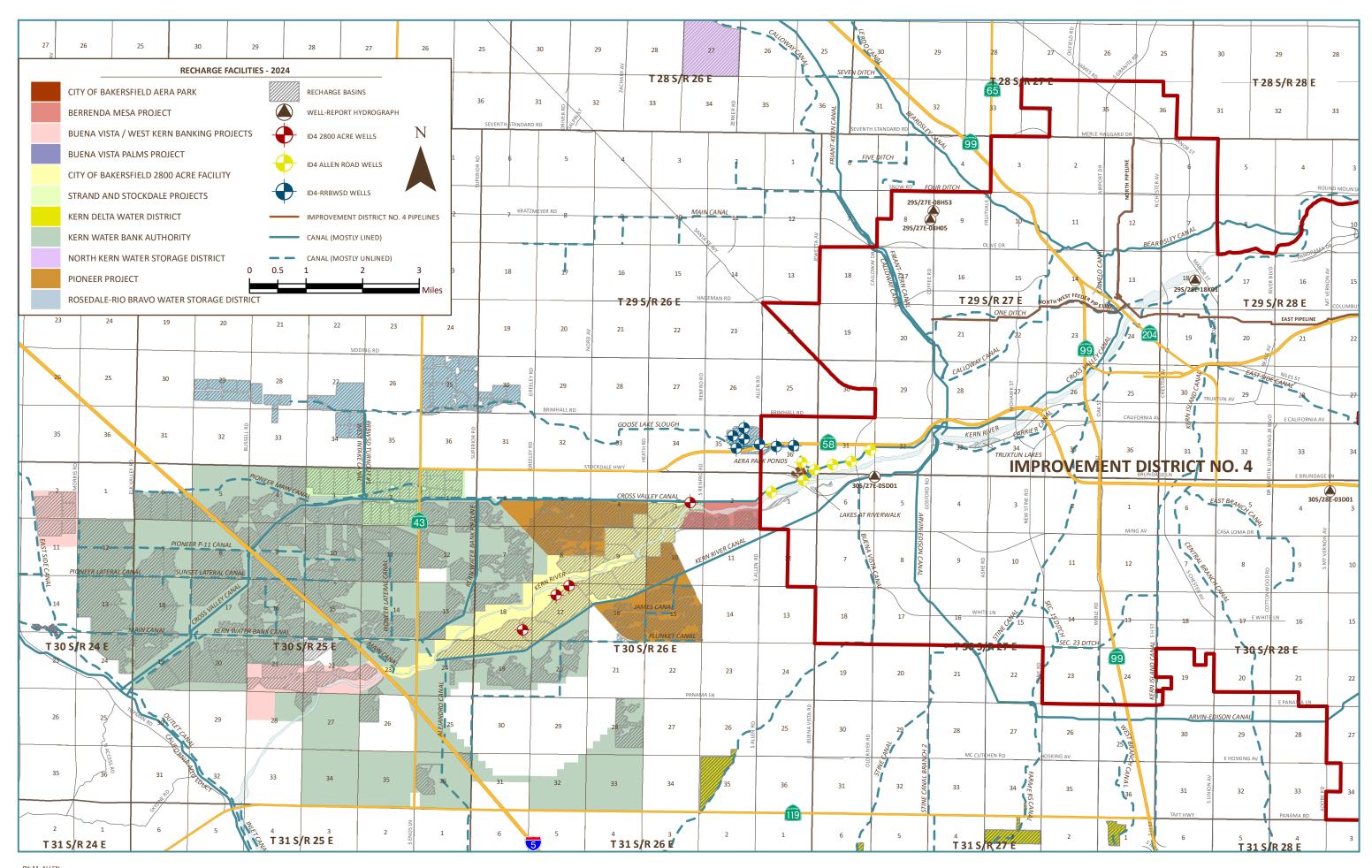
BY: M. ALLEN
DATE: 11/01/24
REVIEWED BY: JT GARDINER
FILENAME: Plate 1 - Land Use (2024).mx

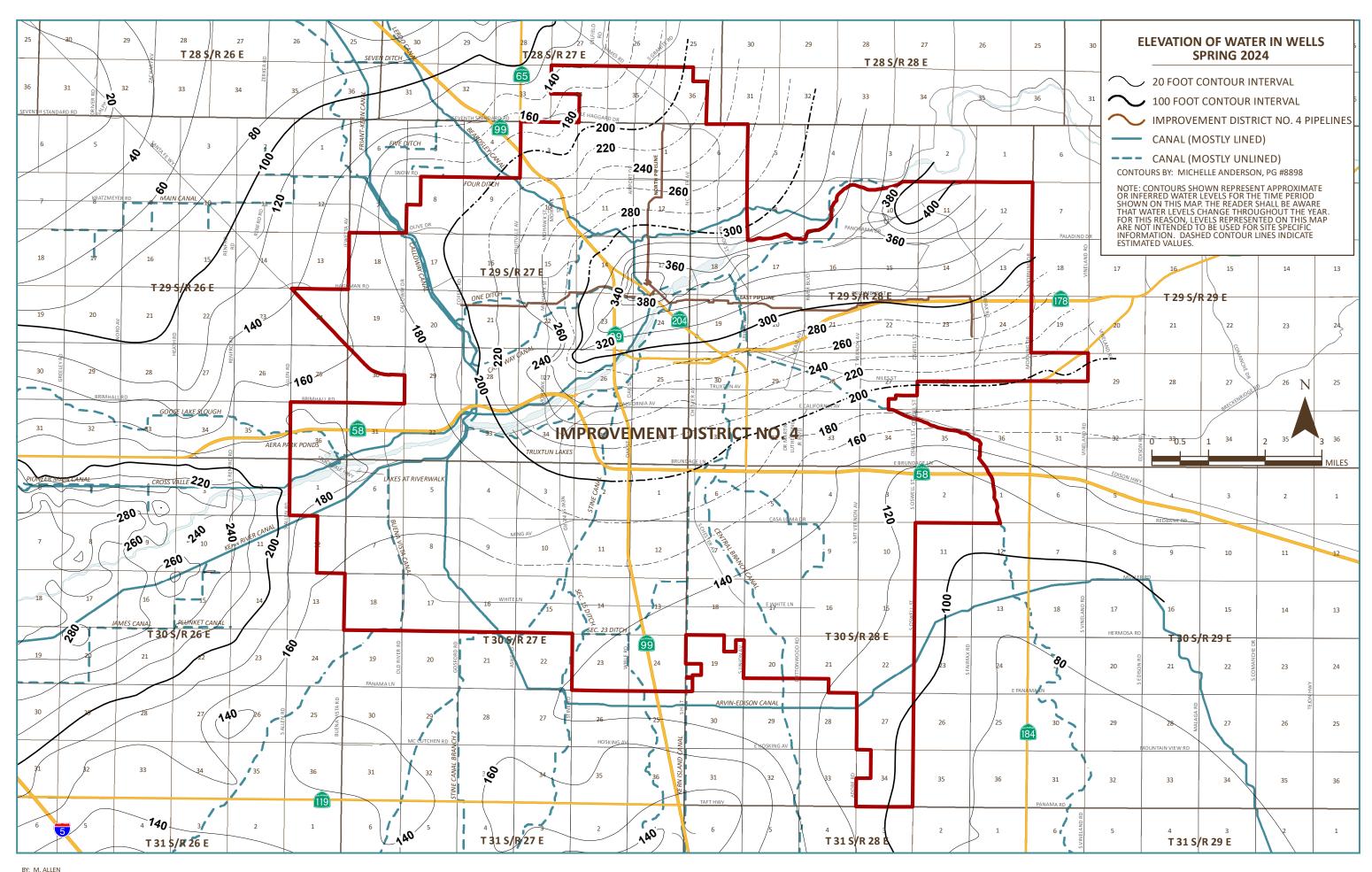
Irrigated agriculture, municipal and industrial areas determined via February 2024 aerial imagery of Kern County.

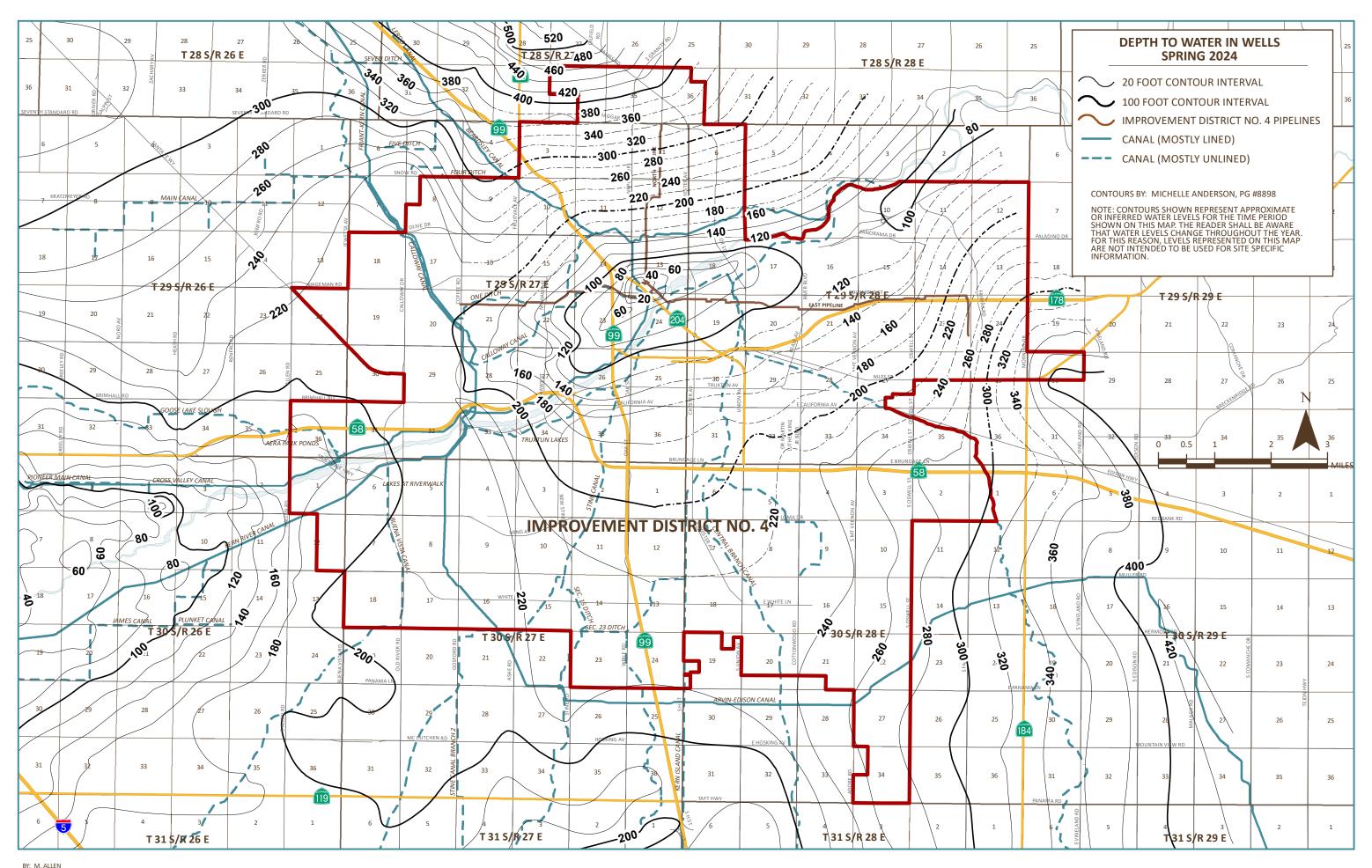












DATE: 11/01/24
REVIEWED BY: JT GARDINER
FILENAME: Plate 7 - Depth to Water in Wells (2024).mxd

