



Veen Chee Foong
Pacific Gas and Electric Company
Technical Remediation Cslt, Principal

Topock Compressor Station
515 National Trails Hwy
Needles, CA 92363

Mailing Address
P.O. Box 337
Needles, CA 92363

(925) 302-3659
Veen.Foong@pge.com

June 18, 2026

Christopher Ioan
Project Manager
California Department of Toxic Substances Control
5796 Corporate Avenue
Cypress, CA 90630

Veronica Dickerson
Project Manager
Environmental Compliance and Cleanup Division
Office of Environmental Policy and Compliance
United States Department of the Interior

Subject: *First Quarter 2026 Well Performance Report, PG&E Topock Compressor Station, Needles, California (PGE20180115A)*

Dear Christopher Ioan and Veronica Dickerson:

Enclosed is the First Quarter 2026 Well Performance Report for the Pacific Gas and Electric Company Topock Compressor Station located in Needles, California. In December 2021, startup began for Phase 1 of the groundwater remedy system including the start of National Trails Highway In Situ Reactive Zone system operation, maintenance, and monitoring to address hexavalent chromium in groundwater. Operation of the In Situ Reactive Zone injection and extraction wells continued in First Quarter 2026.

In accordance with the reporting requirements outlined in the Basis of Design Report/Final (100%) Design Submittal for the Final Groundwater Remedy, this well performance report presents an overview of the groundwater remedy and well maintenance objectives; a summary of First Quarter 2026 well operations, maintenance, and performance monitoring activities; and recommendations and planned activities for the next reporting period.

Please contact me at (925) 302-3659 if you have any questions about the well performance report.

Sincerely,

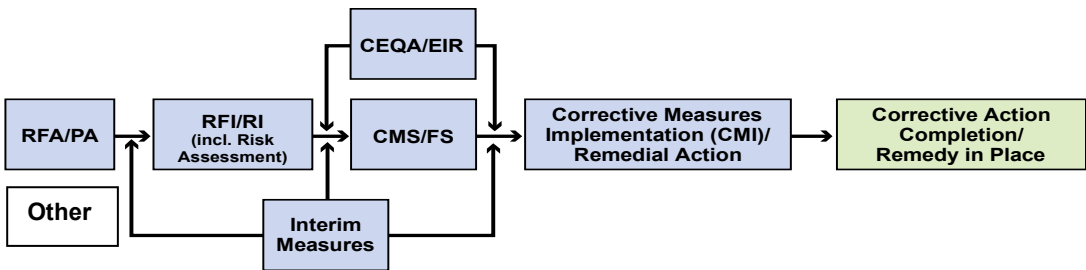
A handwritten signature in black ink, appearing to read 'Veen Chee Foong', is written over a light blue horizontal line.

Veen Chee Foong
Pacific Gas and Electric Company
Technical Remediation Cslt, Principal

Cc: Greg Neal/DTSC
Eileen Mananian/DTSC
Ken Foster/CA-SLC
Bruce Campbell/AZ-SLD
John Glass/PG&E

Topock Project Executive Abstract

Document Title:	First Quarter 2026 Well Performance Report, PG&E Topock Compressor Station, Needles CA
Submitting Agency:	DTSC and DOI
Final Document?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Date of Document:	June 18, 2026
Who created this document?: (i.e. PG&E, DTSC, DOI, Other)	PG&E
Priority Status:	<input type="checkbox"/> HIGH <input type="checkbox"/> MED <input checked="" type="checkbox"/> LOW
Is this time critical?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Type of Document:	<input type="checkbox"/> Draft <input checked="" type="checkbox"/> Report <input type="checkbox"/> Letter <input type="checkbox"/> Memo <input type="checkbox"/> Other / Explain:
Action Required:	<input checked="" type="checkbox"/> Information Only <input type="checkbox"/> Review & Comment Return to: _____ By Date: _____ <input type="checkbox"/> Other / Explain:
What does this information pertain to?	<input type="checkbox"/> Resource Conservation and Recovery Act (RCRA) Facility Assessment (RFA)/Preliminary Assessment (PA) <input type="checkbox"/> RCRA Facility Investigation (RFI)/Remedial Investigation (RI) (including Risk Assessment) <input type="checkbox"/> Corrective Measures Study (CMS)/Feasibility Study (FS) <input checked="" type="checkbox"/> Corrective Measures Implementation (CMI)/Remedial Action <input type="checkbox"/> California Environmental Quality Act (CEQA)/Environmental Impact Report (EIR) <input type="checkbox"/> Interim Measures <input type="checkbox"/> Other / Explain:
Is this a regulatory requirement?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No If no, why is the document needed?
What is the consequence of NOT doing this item? What is the consequence of DOING this item?	Submittal of this report is a compliance requirement under DTSC and DOI requirements.
Other Justification/s:	<input type="checkbox"/> Permit <input type="checkbox"/> Other / Explain:
Brief Summary of Attached Document:	In December 2021, startup began for Phase 1 of the groundwater remedy system including start of National Trails Highway In Situ Reactive Zone system operation, maintenance, and monitoring to address hexavalent chromium in groundwater. Operation of the In Situ Reactive Zone injection and extraction wells continued in First Quarter 2026. In accordance with the reporting requirements outlined in the Basis of Design Report/Final (100%) Design Submittal, this well performance report presents an overview of the groundwater remedy and well maintenance objectives; a summary of First Quarter 2026 well operations, maintenance, and performance monitoring activities; and recommendations and planned activities for the next reporting period. Written by: PG&E

Recommendations:	None.
How is this information related to the Final Remedy or Regulatory Requirements?:	This report is required by DTSC and DOI as part of the Basis of Design Report/Final (100%) Design Submittal for the Final Groundwater Remedy.
Other requirements of this information?:	None.
Related Reports and Documents:	<p>Click any boxes in the Regulatory Road Map (below) to be linked to the Documents Library on the DTSC Topock Web Site (www.dtsc-topock.com).</p>  <pre> graph LR RFA[RFA/PA] --> RFI[RFI/RI (incl. Risk Assessment)] Other[Other] --> RFI IM[Interim Measures] --> RFI RFI --> CMS[CMS/FS] CEQA[CEQA/EIR] --> CMS CMS --> CMI[Corrective Measures Implementation (CMI)/ Remedial Action] CMI --> CAP[Corrective Action Completion/ Remedy in Place] </pre> <p>Legend RFA/PA – RCRA Facility Assessment/Preliminary Assessment RFI/RI – RCRA Facility Investigation/CERCLA Remedial Investigation (including Risk Assessment) CMS/FS – RCRA Corrective Measure Study/CERCLA Feasibility Study CEQA/EIR – California Environmental Quality Act/Environmental Impact Report</p>

Version 9

Pacific Gas and Electric Company

First Quarter 2026 Well Performance Report

**Topock Compressor Station
Needles, California**

June 18, 2026

First Quarter 2026 Well Performance Report

Topock Compressor Station

Needles, California

June 18, 2026

Prepared By:

Arcadis U.S., Inc.
100 Montgomery Street
Suite 300
San Francisco
California 94104
Phone: 415 374 2744
Fax: 415 374 2745

Our Ref:

30316032

This report was prepared under the supervision of a California Professional Engineer.



Julianne Aronson
Arcadis Report Lead



Emily Sheu, PE No. C80114
Principal Engineer



Treck Hohman
Arcadis Project Manager

Contents

- Acronyms and Abbreviations..... iv
- 1 Introduction..... 1
- 2 NTH IRZ Well Maintenance Program 3
 - 2.1 Routine Maintenance..... 3
 - 2.2 Long-Term Performance Tracking..... 4
 - 2.2.1 Specific Capacity Monitoring 5
 - 2.2.2 Water Quality Monitoring 6
- 3 NTH IRZ Well Performance..... 7
 - 3.1 System Operation Summary 7
 - 3.2 NTH IRZ Extraction Well Performance..... 8
 - 3.2.1 Extraction Well O&M and Specific Capacity Summary 8
 - 3.2.2 Extraction Well Inspections..... 8
 - 3.2.3 Extraction Well Water Quality 9
 - 3.2.4 PTI-1D Operations 10
 - 3.3 NT1H IRZ Injection Well Performance..... 11
 - 3.3.1 Well Maintenance Procedures..... 11
 - 3.3.1.1 Well Rehabilitation Procedure 11
 - 3.3.2 Injection Well O&M and Specific Capacity Summary 12
 - 3.3.3 Injection Well Inspections..... 13
 - 3.3.4 Injection Well Water Quality 14
- 4 Monitoring Well Performance..... 15
 - 4.1 Wellhead Condition 15
 - 4.2 Turbidity..... 15
 - 4.3 Depth to Well Bottom 15
 - 4.4 Specific Capacity 16
 - 4.5 Response to Monitoring Well Performance Evaluation..... 16
- 5 Recommendations and Planned Activities for Next Reporting Period..... 18
- 6 References 19

Exhibits (in text)

Exhibit 2.1	Routine Maintenance Matrix for Injection and Extraction Wells from the Final BOD
Exhibit 2.2	Performance Monitoring Frequencies
Exhibit 3.1	First Quarter 2026 NTH IRZ Extraction Well Analytical Results

Tables

Table 3.1	Summary of NTH IRZ Well Operations
Table 3.2	NTH IRZ System Operations and Non-Routine Maintenance Log
Table 3.3	First Quarter 2026 Water Quality Field Parameters
Table 4.1	Monitoring Well Inspection Results
Table 4.2	Monitoring Well Water Levels and Specific Capacities

Figures

Figure 1.1	Partial Remedy System Layout
Figure 3.1	Extraction Well Specific Capacity Trends
Figure 3.2	Injection Well Specific Capacity Trends Part 1
Figure 3.3	Injection Well Specific Capacity Trends Part 2
Figure 3.4	Injection Well Specific Capacity Trends Part 3
Figure 4.1	Monitoring Well Network

Acronyms and Abbreviations

CH2M Hill	CH2M Hill, Inc.
Cr6	hexavalent chromium
DOI	U.S. Department of the Interior
DTSC	California Department of Toxic Substances Control
Final BOD	Basis of Design Report/Final (100%) Design Submittal for the Final Groundwater Remedy
gpm	gallon per minute
IRZ	In Situ Reactive Zone
mg/L	milligram per liter
NTH	National Trails Highway
O&M	operation and maintenance
PG&E	Pacific Gas and Electric Company
Site	Pacific Gas and Electric Company Topock Compressor Station, located in eastern San Bernardino County, 15 miles southeast of the City of Needles, California
TOC	total organic carbon

1 Introduction

Pacific Gas and Electric Company (PG&E) is implementing a final groundwater remedy to address hexavalent chromium (Cr6) in groundwater near the PG&E Topock Compressor Station located in eastern San Bernardino County, 15 miles southeast of the City of Needles, California (the Site). PG&E is implementing the groundwater remedy at the Site in conformance with the requirements of the Resource Conservation and Recovery Act and the Comprehensive Environmental Response, Compensation, and Liability Act. The U.S. Department of the Interior (DOI) and the California Department of Toxic Substances Control (DTSC) executed a Memorandum of Understanding on November 22, 2011, which established coordination guidelines for overseeing implementation of a groundwater response action at the Site (DTSC and DOI 2011). In a coordinated effort, DOI and DTSC selected the final groundwater remedy to address Cr6 in groundwater, which is presented in the Record of Decision (DOI 2010).

In November 2015, PG&E submitted a Basis of Design Report/Final (100%) Design Submittal for the Final Groundwater Remedy (Final BOD), which presents the design basis, design criteria, drawings, specifications, and operation and maintenance (O&M) requirements for the groundwater remedy (CH2M Hill, Inc. [CH2M Hill] 2015a). The infrastructure for the groundwater remedy is being constructed following the plans and procedures documented in the Construction/Remedial Action Work Plan (CH2M Hill 2015b). Construction and startup of the groundwater remedy is proceeding in phases.

Construction of Phase 1 began in October 2018 and was completed sufficiently in December 2021 for initial system startup. Design modifications were incorporated during construction to accommodate actual conditions encountered, including a plume footprint smaller than that documented in the Final BOD (CH2M Hill 2015a). As a result, the National Trails Highway (NTH) In Situ Reactive Zone (IRZ) system was installed with 10 fewer wells than planned in the Final BOD, with these 10 wells being deferred from Phase 1 of construction.

The NTH IRZ is a recirculation system in which water is extracted from up to five NTH IRZ extraction wells, amended with carbon substrate, and injected into up to 25 NTH IRZ injection intervals. In triple-screened wells (IRZ-25 and IRZ-27), two of the three well screens are combined into a single interval using a packer. The NTH IRZ extraction wells include IRZ-9, IRZ-13S, IRZ-13D, IRZ-23, and pilot test well PTI-1D.

Injection well intervals include IRZ-15 (upper), IRZ-15 (lower), IRZ-16 (upper), IRZ-16 (lower), IRZ-17 (upper), IRZ-17 (lower), IRZ-18 (upper), IRZ-18 (lower), IRZ-20 (upper), IRZ-20 (lower), IRZ-21 (upper), IRZ-21 (lower), IRZ-25 (upper/upper middle), IRZ-25 (lower), IRZ-27 (upper), IRZ-27 (middle/lower), IRZ-29 (upper), IRZ-29 (lower), IRZ-31 (upper), IRZ-31 (lower), IRZ-33 (upper), IRZ-33 (lower), IRZ-35, IRZ-37, and IRZ-39.

A site layout, including locations of the extraction wells, the remedy-produced water conditioning system, and the carbon amendment system, is shown on Figure 1.1.

In December 2021, startup began for Phase 1 of the groundwater remedy system including operation, maintenance, and monitoring of the NTH IRZ system. O&M is being performed in accordance with the O&M Manual (Appendix L, Volume 1 of the Final BOD; CH2M Hill 2015a). This report documents well maintenance and well performance from January to March 2026 (First Quarter 2026), in accordance with the O&M Manual (Appendix L, Volume 1 of the Final BOD; CH2M Hill 2015a). The remainder of this report is organized into the following sections:

- Section 2 provides an overview of the well maintenance program.
- Section 3 summarizes the well performance and maintenance of the NTH IRZ remediation wells.

First Quarter 2026 Well Performance Report

- Section 4 summarizes the well performance and maintenance of the monitoring wells.
- Section 5 provides recommendations for modifications to the well maintenance program and planned activities for the next quarterly reporting period.
- Section 6 provides the references for the documents cited throughout this report.

2 NTH IRZ Well Maintenance Program

The well maintenance program consists of routine maintenance and performance tracking, including tracking well performance over time, collecting analytical data, and inspecting wells to evaluate well integrity over time. This section summarizes these activities.

2.1 Routine Maintenance

Well maintenance is incorporated into the routine operations of the NTH IRZ. Exhibit 2.1 in this section summarizes estimated maintenance activity frequencies for the NTH IRZ wells as presented in the O&M Manual (Appendix L, Volume 1 of the Final BOD; CH2M Hill 2015a). Injection wells are prone to fouling as the injection of organic carbon stimulates the growth of bacteria, generation of gases such as carbon dioxide, and formation of mineral precipitates. To mitigate fouling resulting from these processes, the routine maintenance plan includes backwashing and mechanical and chemical rehabilitation. Injection wells are backwashed by extracting groundwater for a short period using a downhole pump to loosen and remove sediments and deposits present on the well screen or in the filter pack. Backwashing of injection wells was initially anticipated to occur weekly during operations (Exhibit 2.1). Mechanical rehabilitation of wells involves physical agitation and subsequent removal of dislodged and detached deposits. Chemical rehabilitation uses additives to remove deposits (for example, by increasing solubility). Mechanical and chemical rehabilitation were planned to occur after periods of extended injection well operation and before planned extended downtime (approximately every 6 months to 1.5 years; see Exhibit 2.1). However, as discussed in the O&M Manual (Appendix L, Volume 1 of the Final BOD; CH2M Hill 2015a), the frequency and manner of injection well rehabilitation are subject to change in response to well performance monitoring data, which are detailed in Section 2.2. Currently, maintenance is performed more frequently than what was planned in the initial schedule that was presented in the O&M Manual (Appendix L, Volume 1 of the Final BOD; CH2M Hill 2015a), as summarized in Exhibit 2.1.

Extraction wells are less prone to fouling and, as such, the frequency of routine rehabilitation for extraction wells is significantly lower than that for the injection wells. The O&M Manual (Appendix L, Volume 1 of the Final BOD; CH2M Hill 2015a) recommended mechanical rehabilitation (i.e., pumping and surging) for as-needed maintenance of the extraction wells. Chemical rehabilitation may be warranted in some cases.

Exhibit 2.1 Routine Maintenance Matrix for Injection and Extraction Wells from the Final BOD

	Injection Well Backwashing Frequency	Injection Well Chemical/Mechanical Rehabilitation Frequency	Extraction Well Mechanical Rehabilitation Frequency
Initial frequency	Weekly	6 months to 1.5 years	As needed
Current frequency	Three times per week	3 to 5 months	As needed

2.2 Long-Term Performance Tracking

Well performance is tracked to establish well performance trends, identify potential performance declines within the NTH IRZ system, and inform the frequency and methods used for routine well maintenance (see Section 2.1). Long-term performance tracking consists of specific capacity monitoring, water quality monitoring, and wellhead inspection. Exhibit 2.2 in this section presents the minimum planned frequency of these activities, and specific capacity and water quality monitoring are detailed in the following subsections.

Exhibit 2.2 Performance Monitoring Frequencies

Performance Monitoring Activity	Injection Wells	Extraction Wells
Specific capacity evaluation	Monthly	Monthly
Water quality monitoring	Baseline, then as needed	Baseline as well as the following: Monthly TOC, manganese, iron, and field parameter screening in 2022 and First and Second Quarters 2023, then quarterly for the remainder of 2023, then annually or as needed thereafter. Annual or as-needed biological and geochemical sampling. Annual or as-needed biological activity tests, sand content tests, and modified fouling index tests.
Wellhead inspection	Quarterly	Quarterly

Notes:

1. Field parameters include temperature, pH, specific conductance, turbidity, dissolved oxygen, and oxidation–reduction potential.
 2. Biological and geochemical sampling parameters for extraction wells include TOC, total dissolved solids, iron and manganese (total and dissolved), cations (calcium, potassium, magnesium, and sodium; total), anions (chloride, fluoride, bromide, nitrate, nitrite, and sulfate), alkalinity (total, carbonate, and bicarbonate), and hardness as calcium carbonate. Parameters measured only at baseline include Title 22 metals (total and dissolved), sulfide, phosphate, total phosphorus, silica, ammonia as nitrogen, total Kjeldahl nitrogen, and biochemical oxygen demand.
 3. Baseline sampling included parameters listed in Notes 1 and 2.
- TOC = total organic carbon

2.2.1 Specific Capacity Monitoring

One measure that is used to assess well performance is a specific capacity evaluation. The specific capacity for each extraction or injection well is determined by the rate of extraction or injection per unit of drawdown or draw-up in the well. Mathematically, this is calculated using the following equation.

$$\text{Specific Capacity} \left(\frac{\text{gpm}}{\text{ft}} \right) = \frac{\text{discharge rate (gpm)}}{\text{operating water level (ft)} - \text{static water level (ft)}}$$

where:

ft = foot/feet

gpm = gallon per minute

As discussed in the First Quarter 2022 Well Performance Report (Arcadis 2022a), baseline specific capacities are determined for each extraction and injection well once the wells are operating consistently and the flowrates and water levels stabilize. Baseline capacities were established in Second Quarter 2022 for wells that operated continuously for most of the quarter including IRZ-13S, IRZ-13D, IRZ-16, IRZ-17, IRZ-18, IRZ-20, IRZ-23, IRZ-27, IRZ-29, IRZ-31, IRZ-33, IRZ-35, and IRZ-37 (Arcadis 2022b, 2022c). Baseline capacities were modified in Third Quarter 2022 for extraction wells IRZ-13S, IRZ-13D, and IRZ-23 as explained in the Third Quarter 2022 Well Performance Report (Arcadis 2022d). Baseline capacities were established for IRZ-15 (upper), IRZ-15 (lower), and IRZ-39 in Second Quarter 2023, Third Quarter 2023, and First Quarter 2025, respectively, following continuous injection into these intervals at their target flowrates for an extended period of time. Extraction well PTI-1D began operation in Fourth Quarter 2023, and a baseline capacity was established in December 2023 following approximately 2 months of operation. Extraction well IRZ-9 and injection wells IRZ-21 and IRZ-25 have not operated continuously since NTH IRZ operations began; therefore, sufficient data are not available to establish baseline specific capacities for these wells. Baseline specific capacities for extraction well IRZ-9 and injection wells IRZ-21 and IRZ-25 will be established once these wells are operating continuously and conditions have stabilized.

Static water levels were collected for each injection and extraction well during well development. Static water levels vary naturally depending on the time of year. To account for this natural variation and to use the most conservative static water level, the static water levels collected before system operation were all adjusted to be representative of a low river stage condition (i.e., conditions in January) at the Site. This was done by reviewing historical water-level data and calculating an adjustment factor based on that historical data. Specific capacity values may be affected by planned operational changes to the NTH IRZ wells such as the setting of a new target flowrate. When this occurs, baseline specific capacity values may be adjusted.

Starting in Third Quarter 2022, specific capacities for each well have been calculated and compared to the baseline values to assess well performance decline over time. In accordance with the O&M Manual (Appendix L, Volume 1 of the Final BOD; CH2M Hill 2015a), well performance has previously been classified as “good” (specific capacity greater than or equal to 90 percent of baseline), “fair” (specific capacity between 80 and 90 percent of baseline), or “poor” (specific capacity less than 80 percent of baseline) based on the monthly average specific capacity. This initial classification system is oversimplified and no longer practical for identifying and prioritizing NTH IRZ wells for maintenance. Since startup of the NTH IRZ system in December 2021, the frequencies of routine injection well maintenance activities have been increased (see Exhibit 2.1) and well rehabilitation procedures have been enhanced (e.g., increased surging time, added jetting) for the injection wells.

Starting in Fourth Quarter 2024, the “good,” “fair,” and “poor” designations have no longer been presented as a metric for evaluating performance of the NTH IRZ wells or effectiveness of the well maintenance procedures at each well. Instead, specific capacities are reviewed in tandem with well flowrate and water-level trends over time with the overarching goal of maintaining overall NTH IRZ injection system performance.

2.2.2 Water Quality Monitoring

Water quality monitoring, including field parameter screening and sample collection for laboratory analysis, provides data to help diagnose well clogging issues and determine corrective measures. Baseline water quality sampling included biological, geochemical, and field parameters as specified in Exhibits 4.1-1 and 4.1-2 of the O&M Manual (Appendix L, Volume 1 of the Final BOD; CH2M Hill 2015a). Extraction wells are sampled annually or as needed, as summarized in Exhibit 2.2 and in alignment with the O&M Manual (Appendix L, Volumes 1 and 2 of the Final BOD; CH2M Hill 2015a), for extraction of constituents associated with the in situ injections including TOC and dissolved metals. Samples were collected during First Quarter 2026 and analyzed for select parameters according to standard operating procedures presented in Appendix B of the Groundwater Remedy Phase 1 Interim Monitoring Plan (Arcadis 2021) and the Final PG&E Program Quality Assurance Project Plan and addendum (CH2M Hill 2014; Critigen 2020). Sample results are discussed in Section 3.2.3 of this report.

3 NTH IRZ Well Performance

This section summarizes NTH IRZ system operational changes, well specific capacities, and water quality monitoring that occurred during First Quarter 2026.

3.1 System Operation Summary

Routine operation of the NTH IRZ system continued throughout First Quarter 2026 with extraction wells IRZ-23 and IRZ-13D and injection wells IRZ-15, IRZ-16, IRZ-17, IRZ-18, IRZ-20, IRZ-27, IRZ-29, IRZ-31, IRZ-33, IRZ-37, and IRZ-39. Southern NTH IRZ injection well IRZ-35 remained cycled off for a rest period, in accordance with the Final BOD (CH2M Hill 2015a), because it was not needed to manage groundwater extracted by the NTH IRZ system and prolonged treatment had been observed in the area of IRZ-35. In order to maintain the extraction goal at IRZ-23 while other injection wells were taken offline for rehabilitation, IRZ-29 and IRZ-33 were cycled on in First Quarter 2026 after having been offline since July 2025.

Routine operation during First Quarter 2026 prioritized maintaining target extraction rates at IRZ-23, followed by IRZ-13D, to enhance plume control, and NTH IRZ injection wells were operated, when possible, to accommodate the extracted water¹. The total recirculation flowrate varied because maintenance requiring operational downtime was performed at select NTH IRZ injection wells. This maintenance consisted of full chemical and mechanical well rehabilitation (typically 1 to 2 weeks of downtime per well). Extraction well IRZ-13D operated intermittently in First Quarter 2026 to provide hydraulic control of the deep lobe of the Cr6 plume to the north. IRZ-13S was not operated in First Quarter 2026 to prioritize operation of IRZ-23 and IRZ-13D.

At the beginning of First Quarter 2026, the northern and most of the southern NTH IRZ injection wells were dosed with ethanol biweekly (every other week) and once weekly, respectively. Southern NTH IRZ injection wells IRZ-27 and IRZ-39 were dosed three times every 2 weeks to address concentrations of Cr6 near IRZ-27 and nitrate near IRZ-39. Beginning March 3, 2026, the southern NTH IRZ injection wells were dosed on the same schedule as the northern NTH IRZ injection wells (i.e., every other week), except IRZ-27 and IRZ-39, which continued to be dosed three times every 2 weeks. Dosing was implemented to achieve a time-weighted target average concentration of 13 to 39 milligrams per liter (mg/L) of TOC, which is approximately 15 to 40 percent of the nominal design dosing specified in the Final BOD (CH2M Hill 2015a). A total of 295 gallons of ethanol were injected in First Quarter 2026. System run time, ethanol and recirculated groundwater injection volumes, and average flowrates are summarized in Table 3.1. An NTH IRZ system operations and non-routine maintenance log is presented in Table 3.2.

Chemical and mechanical well rehabilitation occurred at the following NTH IRZ injection wells in First Quarter 2026: IRZ-16, IRZ-17, IRZ-18, IRZ-27, and IRZ-31. Average systemwide uptime was 95 percent in First Quarter 2026². The following notable events occurred in First Quarter 2026:

- Rain infiltration during storm events caused a systemwide shutdown on January 1 (2.6 hours);
- Power loss at the Topock Compressor Station caused systemwide shutdowns on the following dates:

¹ In First Quarter 2026, target flowrates for the northern NTH IRZ injection wells were based on the nominal design flowrates specified in the Final BOD (CH2M Hill 2015a). Target flowrates for the southern NTH IRZ injection wells were based on 150 percent of the nominal design flowrates specified in the Final BOD.

² Systemwide uptime is calculated using total run time hours (run time in hours is calculated from extraction well operating hours) divided by total possible run time hours in First Quarter 2026.

- March 12 through 17 (104.9 hours); and
- March 30 (5.9 hours).

3.2 NTH IRZ Extraction Well Performance

Extraction wells operated as part of Phase 1 of the groundwater remedy include IRZ-9, IRZ-13S, IRZ-13D, IRZ-23, and pilot test well PTI-1D. Extraction well run time, volume of extracted groundwater, and average extraction well flowrate (per month) are documented in Table 3.1. A discussion of observed extraction well performance in First Quarter 2026 is provided in the following subsections.

3.2.1 Extraction Well O&M and Specific Capacity Summary

As described in Section 2.2.1 of this report, average specific capacities from July 2022 were established as the baseline specific capacities for extraction wells IRZ-23, IRZ-13S, and IRZ-13D. A baseline specific capacity was established for PTI-1D in December 2023. A baseline specific capacity has not yet been established for extraction well IRZ-9 due to limited and inconsistent operation of this well since NTH IRZ system operations began.

Graphs of average daily specific capacity over time for extraction wells IRZ-13S, IRZ-13D, IRZ-23, and pilot test well PTI-1D are presented on Figure 3.1 (Third Quarter 2022 through First Quarter 2026). Average daily specific capacities are presented as percentages of the baseline specific capacities for each well. To date, changes in extraction well specific capacity have been a function of variations in target flow and river stage, as detailed below, rather than an indicator of well fouling:

- **IRZ-23** operated throughout First Quarter 2026 with only minimal downtime as noted in Table 3.1. The monthly average flowrate during operation ranged from 54 to 64 gpm. IRZ-23 was operated near the target flowrate of approximately 60 gpm or higher. The increase in specific capacity observed at IRZ-23 near the end of First Quarter 2026 is attributed to operational adjustments (i.e., increasing the flowrate).
- **IRZ-13S** was not operated in First Quarter 2026, except during quarterly sampling in March 2026.
- **IRZ-13D** was operated for approximately 1 month (between February 10 and March 12) in First Quarter 2026, with monthly average flowrates during operation ranging between 11 and 12 gpm. During this time, the specific capacity typically exceeded 100 percent of baseline.
- **PTI-1D** was not operated in First Quarter 2026, except during monthly sampling in January, February, and March 2026 (see Section 3.2.4).

In accordance with the Final BOD (CH2M Hill 2015a), routine maintenance of extraction wells could include pump-and-surge redevelopment as needed. No routine maintenance was performed on the extraction wells in First Quarter 2026.

3.2.2 Extraction Well Inspections

Extraction wells are inspected quarterly (at a minimum) for visible leaks and damage. Any notable damage or equipment needing replacement is identified in Table 3.2. Leak detection switches within the vaults are also used to identify maintenance needs in a timely manner. There was no notable damage to the extraction wells, and no non-routine maintenance was performed on these wells during First Quarter 2026.

3.2.3 Extraction Well Water Quality

The potential for increased well fouling, resulting from the extraction of groundwater with residual carbon substrate and/or reduced metals from the nearby carbon injection activity, is monitored during system operations. This monitoring includes measuring TOC and metal byproduct concentrations at the extraction wells. The First Quarter 2026 Quarterly Progress Report (Arcadis, in progress) provides the extraction well monitoring analytical results; however, the results are also summarized and discussed herein.

Baseline analytical data for extraction wells are provided in Table 3.4 of the First Quarter 2022 Well Performance Report (Arcadis 2022a) and in Exhibit 3.1 in this section (key indicator parameters only). Baseline analytical data were collected during December 2021, January 2022, March 2022, and November 2023, when extraction wells were brought online (Exhibit 3.1).

Exhibit 3.1 in this section presents the First Quarter 2026 analytical results from extraction wells IRZ-9, IRZ-23, IRZ-13S, IRZ-13D, and PTI-1D. Extraction wells IRZ-9, IRZ-23, IRZ-13S, and IRZ-13D were sampled in March 2026 (quarterly), and PTI-1D was sampled in January, February, and March (monthly).

At the extraction wells, total iron, dissolved iron, and dissolved manganese concentrations were generally lower than the reporting limits or baseline concentrations, except for a low concentration of dissolved manganese at IRZ-13S. This result is not indicative of fouling because IRZ-13S did not operate in First Quarter 2026 prior to the sampling event, and the dissolved manganese concentration at IRZ-13S was within the range of previous concentrations observed in the well. Although baseline TOC concentrations are not available for the extraction wells, TOC concentrations in these wells remained below detectable levels in First Quarter 2026. Overall, the TOC data do not exhibit trends that may be indicative of well fouling. Therefore, no adjustments to operations of the extraction wells were needed in First Quarter 2026 based on the water quality results.

Exhibit 3.1 First Quarter 2026 NTH IRZ Extraction Well Analytical Results

Extraction Well	Sample Date	Active Time Operating (percent)	TOC: Method 5310B (mg/L)	Total Iron (mg/L)	Dissolved Iron (mg/L)	Dissolved Manganese (mg/L)
IRZ-9	Baseline: January 2022	9	--	Less than 0.02	Less than 0.02	0.0027
IRZ-9	Range (Baseline to Date)	--	Less than 1 to 4.3 J	Less than 0.02 to 0.84	Less than 0.02 to 0.76	Less than 0.0005 to 0.0097
IRZ-9	March 2026	0.46	Less than 1	Less than 0.02	Less than 0.02	Less than 0.0005
IRZ-23	Baseline: December 2021	8	--	0.69	0.091 J	Less than 0.0005
IRZ-23	Range (Baseline to Date)	--	Less than 1 to 3.4	Less than 0.02 to 1.2 J	Less than 0.02 to 0.091 J	Less than 0.0005
IRZ-23	March 2026	85	Less than 1	Less than 0.02	Less than 0.02	Less than 0.0005
IRZ-13S	Baseline: March 2022	53	--	0.06	Less than 0.02	Less than 0.0005
IRZ-13S	Range (Baseline to Date)	--	Less than 1 to 2.6	Less than 0.02 to 1.2 J	Less than 0.02 to 0.044	Less than 0.0005 to 0.0064 J

Extraction Well	Sample Date	Active Time Operating (percent)	TOC: Method 5310B (mg/L)	Total Iron (mg/L)	Dissolved Iron (mg/L)	Dissolved Manganese (mg/L)
IRZ-13S	March 2026	0.47	Less than 1	Less than 0.02	Less than 0.02	0.0017
IRZ-13D	Baseline: March 2022	53	--	Less than 0.02	0.059 J	0.062
IRZ-13D	Range (Baseline to Date)	--	Less than 1 to 3.0	Less than 0.02 to 0.63	Less than 0.02 to 0.059 J	Less than 0.0005 to 0.062
IRZ-13D	March 2026	38	Less than 1	Less than 0.02	Less than 0.02	0.002
PTI-1D	Baseline: November 2023	94	--	1.3	1.1	4.2 J
PTI-1D	Range (Baseline to Date)	--	--	0.084 to 1.9 J	0.083 to 1.1	0.55 to 4.2 J
PTI-1D	January 2026	0.27	--	0.22	0.22	0.72
PTI-1D	February 2026	0.30	--	0.20	0.20	0.70
PTI-1D	March 2026	0.47	--	0.24	0.25	0.71

Notes:

Range is the concentration range for the indicated well from baseline to date. Results shown are the First Quarter 2026 analytical results for the indicated well.

-- = not analyzed

J = estimated concentration

Table 3.3 includes field parameter data (temperature, pH, specific conductance, turbidity, dissolved oxygen, and redox potential) for extraction wells collected during First Quarter 2026.

3.2.4 PTI-1D Operations

Starting on November 2, 2023, PG&E began extracting groundwater from pilot test extraction well PTI-1D, in accordance with the PTI-1D Floodplain Extraction Test Workplan (Arcadis 2023a), to improve hydraulic control of the Cr6 plume. On September 20, 2024, PG&E requested to continue the PTI-1D extraction test for as long as warranted to allow for ongoing Cr6 concentration reductions at key wells (e.g., PT5D and MW-44-115), particularly during low river stage (PG&E 2024). In October 2024, the DTSC and DOI conditionally approved a 1-year extension of the PTI-1D extraction test (DTSC 2024; DOI 2024). On November 17, 2025, the DTSC approved an additional 2-year extension of the PTI-1D extraction test for contingency operation of PTI-1D on an as-needed basis (DTSC 2025).

Hydraulic and analytical data collected as part of the PTI-1D extraction test have demonstrated that the test objectives have been achieved as discussed in further detail in the quarterly progress reports. On June 16, 2025, PTI-1D was turned off to accommodate an extended aquifer test at IRZ-9 and has remained offline since (except for monthly sampling). IRZ-23 continues to be operated to maintain control of the remaining Cr6 plume in the floodplain. PTI-1D and other wells in the vicinity continued to be sampled in First Quarter 2026, and the results are discussed in the First Quarter 2026 Quarterly Progress Report (Arcadis, in progress).

3.3 NTH IRZ Injection Well Performance

Phase 1 of the groundwater remedy includes NTH IRZ injection wells IRZ-15, IRZ-16, IRZ-17, IRZ-18, IRZ-20, IRZ-21, IRZ-25, IRZ-27, IRZ-29, IRZ-31, IRZ-33, IRZ-35, IRZ-37, and IRZ-39. Injection well run time, including average flowrates, is documented in Table 3.1. A discussion of observed injection well performance in First Quarter 2026 is provided in the following subsections.

3.3.1 Well Maintenance Procedures

In accordance with recommendations made in the Fourth Quarter 2024 Well Performance Report (Arcadis 2025a), the current well rehabilitation program is as follows:

- Complete quarterly mechanical and chemical rehabilitation at injection wells IRZ-17, IRZ-18, IRZ-27, IRZ-29, IRZ-31, and IRZ-33 (when these wells are operating) using the updated rehabilitation procedure described in Section 3.3.1.1.
- Complete mechanical and chemical rehabilitation approximately every 4 to 5 months at injection wells IRZ-15, IRZ-16, IRZ-20, IRZ-35, and IRZ-37 (when these wells are operating) using the updated rehabilitation procedure described in Section 3.3.1.1.

Additionally, IRZ-39 was brought online in Fourth Quarter 2024 and undergoes complete mechanical and chemical rehabilitation every 5 to 6 months (when this well is operating) using the updated rehabilitation procedure described in Section 3.3.1.1. No notable rehabilitation schedule adjustments occurred in First Quarter 2026. However, due to scheduling constraints, some wells were rehabilitated at frequencies different from their planned frequency.

As discussed in the Fourth Quarter 2024 Well Performance Report (Arcadis 2025a), the rehabilitation procedure was updated in First Quarter 2025 because a subset of injection wells were unable to sustain flowrates for a prolonged period of time following rehabilitation. Camera surveys indicated that the previous rehabilitation procedure continued to be effective in removing fouling from within the well screens. Thus, the decline in the performance of certain wells is likely due to fouling in the filter packs and/or surrounding formation, which is not visible via a camera survey. The updated rehabilitation procedure included the addition of new chemicals, as described in Section 3.3.1.1, and a new jetting tool with nozzle inserts that allow for jetting at velocities of 208 and 324 feet per second.

3.3.1.1 Well Rehabilitation Procedure

Rehabilitation for each well involves the following process.

- Confirm the injection well is offline and confirm the affiliated well water and electrical lines have been locked out and tagged out by appropriate personnel.
- Open the well vault and begin continuous air monitoring.
- Remove the downhole equipment, including the packer (if applicable), drop pipe, and pump(s), from injection well. During its removal, inspect the equipment for corrosion, damage, deposits, and/or odor. Brush, clean, and/or pressure-wash the equipment if needed.
- Mechanically clean the well casing and screen section(s) using a double-surge block.

- Jet the mixed well chemical solution down the well using a jetting tool, first into the lower well screen, then the upper screen, and surge the screen intervals.
- Following jetting, install a dual-swab block brush and swab the screen intervals.
- If using a packer, reinstall the packer following jetting and swabbing of the chemicals in all screens.
- Allow the chemicals to sit in the well overnight. The following day, check the pH of the screen intervals.
- Once the pH is greater than 3, remove the packer (if applicable) and conduct mechanical rehabilitation. Add fresh water as needed to adjust the pH.
- Pump the purge water into backwash piping.
- Reinstall the downhole well equipment and restart the well.

The well chemical solution used for each injection well through Fourth Quarter 2024 included fresh water, NuWell phosphoric acid, and a NuWell biodispersant. Starting in First Quarter 2025, a NuWell surfactant was added to that well chemical solution due to its ability to lower surface tension and, thereby, more effectively address biofouling. Jetting was added to the well rehabilitation procedure starting in Third Quarter 2023 to distribute the chemical solution further into the filter pack and reduce fouling in the filter pack.

In First Quarter 2025, a NuWell hydrochloric acid was used instead of the NuWell phosphoric acid at select injection wells that were identified as unable to sustain flowrates for an extended period after rehabilitation (IRZ-17, IRZ-18, and IRZ-31). Results regarding the relative effectiveness of the hydrochloric acid have been mixed, and enhancements to the rehabilitation methodologies continue to be evaluated. Future use of hydrochloric acid for chemical rehabilitation will be limited to cases where wells are heavily fouled and unable to maintain flowrates post-rehabilitation.

As discussed in the Third Quarter 2025 Well Performance Report (Arcadis 2025b), injection well IRZ-20 was sampled prior to rehabilitation on September 30, 2025, and the collected materials (solid deposits and water) were submitted to Water Systems Engineering for detailed evaluation to inform well specific rehabilitation recommendations. Based on the recommendations, the next rehabilitation event at IRZ-20 (scheduled for Second Quarter 2026) will be conducted by first applying a sodium hypochlorite solution (12 percent) to oxidize and break down organic polymers, followed by traditional chemical and mechanical development using a NuWell non-phosphate-based clay dispersant, and then a final disinfection step using a combination of sodium hypochlorite and a NuWell chlorine enhancer. The objective of this procedure is to further reduce microbial activity and inhibit rapid biofouling recurrence.

3.3.2 Injection Well O&M and Specific Capacity Summary

Injection wells operating during First Quarter 2026 included IRZ-15, IRZ-16, IRZ-17, IRZ-18, IRZ-20, IRZ-27, IRZ-29, IRZ-31, IRZ-33, IRZ-37, and IRZ-39. Injection wells were taken offline as needed throughout the quarter for well rehabilitation. Injection well IRZ-35 remained cycled off for a rest period in accordance with the Final BOD (CH2M Hill 2015a). Injection wells IRZ-21 and IRZ-25 have yet to be operated and remained offline throughout the quarter to avoid fouling of the adjacent IRZ-23 extraction well.

Routine injection well maintenance during First Quarter 2026 included backwashing of injection wells during system operation as detailed in Table 3.2. Each operating injection well was backwashed to remove solids that may have accumulated in the well screen and gravel pack during injections. Backwashing occurred three times weekly when time allowed, an increase from the estimated once weekly backwash described in Section 2.1, to proactively manage well health and water levels at injection wells.

Routine operation for injection wells includes daily monitoring of injection flowrates and water levels. Graphs of average daily specific capacity over time for operating injection wells with an established baseline specific capacity are plotted on Figures 3.2 through 3.4 (Third Quarter 2022 through First Quarter 2026). Average daily specific capacities are plotted as percentages of the baseline specific capacities established in 2022, 2023, or 2025.

Injection wells rehabilitated in First Quarter 2026 included IRZ-16, IRZ-17, IRZ-18, IRZ-27 (to be completed in Second Quarter 2026), and IRZ-31. The procedures used for well rehabilitation are provided in Section 3.3.1.1. Rehabilitation resulted in increased injection well specific capacities in First Quarter 2026, as shown on Figures 3.2 through 3.4 and described below:

- Specific capacity for injection well IRZ-16 (upper) was greater than 80 percent of baseline prior to rehabilitation and generally remained greater than 80 percent of baseline following rehabilitation except for the last couple of days of March. The lower specific capacity on those days has been attributed to inaccurate water-level readings from a malfunctioning pressure transducer. The specific capacity for injection well IRZ-16 (lower) increased following rehabilitation (and flowrate also increased compared to the pre-rehabilitation rate); however, specific capacity did not return to greater than 80 percent of baseline.
- Specific capacity for injection well IRZ-17 (lower) increased following rehabilitation (and flowrate also increased compared to the pre-rehabilitation rate); however, specific capacity did not return to greater than 80 percent of baseline. A sustained improvement in specific capacity was not observed for injection well IRZ-17 (upper) following rehabilitation, and specific capacity in this interval has since decreased further, potentially exacerbated by the rising river stage.
- Specific capacity for injection well IRZ-18 (upper) increased immediately following rehabilitation (and flowrate also increased compared to the pre-rehabilitation rate); however, specific capacity did not return to greater than 80 percent of baseline and quickly declined, potentially also due to the rising river stage. Specific capacity for injection well IRZ-18 (lower) did not improve following rehabilitation.
- Specific capacities for injection well IRZ-31 (upper and lower) increased following rehabilitation (and flowrate also increased in both intervals compared to the pre-rehabilitation rate). However, specific capacities did not return to greater than 80 percent of baseline.

3.3.3 Injection Well Inspections

Injection wells are inspected quarterly (at a minimum) for visible leaks and damage. Any notable damage or equipment needing replacement is identified in Table 3.2. Leak detection switches within the vaults are also used to identify maintenance needs in a timely manner.

Notable non-routine maintenance performed on the injection wells during First Quarter 2026 included the following:

- On January 11, 2026, the packer deflated at IRZ-15 due to a hose leak. The hose was replaced on January 15, 2026.
- On January 23, 2026, the pressure transducer was replaced at IRZ-15 (lower) because it was producing inaccurate water-level data.
- On January 27, 2026, the flow control valve at IRZ-33 (lower) was replaced because it was malfunctioning.

- On February 4, 2026, the pressure transducers at IRZ-33 (upper and lower) were replaced because they were found to have been installed incorrectly following the most recent rehabilitation event.
- On February 7, 2026, the packer hose was repaired at IRZ-29 after a packer leak beneath the well seal was identified.
- On February 24, 2026, the wye check valve at IRZ-29 (lower) was replaced due to a failure that prevented the well from being backwashed.
- On March 29, 2026, the piping at IRZ-31 (upper) was adjusted to address incorrect connections made during the most recent well rehabilitation. When the piping was reinstalled on March 24, following well rehabilitation, the injection line was mistakenly connected to the backwash pump. Corrections to the associated wiring for IRZ-31 (upper) were completed on March 30, 2026.

3.3.4 Injection Well Water Quality

Injection well water quality monitoring includes the collection of baseline data followed by as-needed sampling for biological, geochemical, and/or field parameters. Baseline analytical results for each injection well are provided in the First Quarter 2022 Well Performance Report (Arcadis 2022a). Baseline analytical data were collected during December 2021 and January 2022.

Sampling of injection wells IRZ-16, IRZ-17, and IRZ-31 for diagnostic chemical and microbiological profiling by Water Systems Engineering was completed in First Quarter 2026, and sampling of injection wells IRZ-15, IRZ-29, IRZ-33, and IRZ-37 is planned for Second Quarter 2026 as each well is taken offline for rehabilitation. Recommended well specific enhancements to the rehabilitation methodology will be implemented as the profiling results are received, and both the enhancements and their effectiveness will be discussed in future well performance reports.

4 Monitoring Well Performance

Monitoring wells are inspected to determine whether monitoring well maintenance, such as wellhead repair or well screen redevelopment, is needed. Monitoring well inspections include the following:

- Wellhead condition is assessed to determine if well protection features, including the well seal, well vault/protective casing, and concrete pad, are in place and functioning as designed.
- Turbidity is measured as an indicator of whether the monitoring well screen and filter pack are intact and functioning.
- Depth to bottom of the well is measured as an indicator of infill (siltation).
- Specific capacity is evaluated to confirm consistency with sampling standard operating procedures.

This section provides a summary of each of these parameters. The locations of the inspected monitoring wells are shown on Figure 4.1.

4.1 Wellhead Condition

Wellheads are inspected routinely during sampling, and observations are documented. The inspection results for First Quarter 2026 are presented in Table 4.1. Overall, the wellheads were in good condition in First Quarter 2026, with one exception. At MW-90-031, the well box was noted to be degraded/rusted in Fourth Quarter 2025, and replacement of the well box was originally planned for March or April 2026. However, due to access restrictions to protect roosting bats, the work has now been deferred until after nesting season.

Additional modifications to monitoring well surface completions were performed in April 2026 to address concerns noted by the DTSC in their December 29, 2025 letter to PG&E (PG&E 2026). These modifications will be documented in the Second Quarter 2026 Well Performance Report.

4.2 Turbidity

In accordance with Section 4.2.4 of the O&M Manual (Appendix L, Volume 1 of the Final BOD; CH2M Hill 2015a), wells that consistently yield turbidity greater than the range of 20 to 30 nephelometric turbidity units undergo additional evaluation to determine if redevelopment is warranted. The additional evaluation can include evaluation of previous purge data, specific capacity, and longer-term pressure transducer data. Turbidity data collected from monitoring wells in First Quarter 2026 are included in Table 3.3. No monitoring wells yielded turbidity readings greater than 30 nephelometric turbidity units for three consecutive sampling events in First Quarter 2026.

4.3 Depth to Well Bottom

Depth to well bottom is measured manually during sampling using a water-level meter and compared to the as-constructed well depth and bottom of the screened interval to assess siltation, integrity of the well screen, and integrity of the well casing. Monitoring well depth-to-bottom data are presented in Table 4.2. If the measured well depths for consecutive sampling events suggest that at least 20 percent of the screened interval is silted in, the well will be flagged for further evaluation to determine if redevelopment is necessary.

Monitoring wells MW-27-020, MW-30-050, MW-32-020, MW-39-060, MW-42-055, MW-51, MW-54-195, and MW-77-046 met this measured well depth criterion in First Quarter 2026 but are not recommended for redevelopment. Monitoring wells MW-27-020, MW-30-050, MW-32-020, MW-42-055, and MW-54-195 are not recommended for redevelopment because they are screened in fluvial sediments, and redevelopment in these sediments would increase the potential for sediment infiltration.

Monitoring well MW-77-046 was redeveloped following the October 2024 sampling event (Arcadis 2025a). The specific capacity and turbidity readings measured at MW-77-046 during the last five consecutive sampling events indicate good yield and low suspended solids. Therefore, additional redevelopment or maintenance of MW-77-046 is not recommended at this time.

MW-39-060 and MW-51 are screened in alluvial sediments but are not recommended for redevelopment at this time based on their low turbidity measurements (less than 20 nephelometric turbidity units) during sampling and minimal drawdown during purging. These wells will be monitored for increasing trends in downwell sediment buildup, turbidity, and drawdown observed during sampling, and redevelopment will be considered if increasing trends are observed.

4.4 Specific Capacity

Monitoring well purging is generally conducted at rates between 100 and 500 milliliters per minute, and drawdown at these rates typically ranges from a few hundredths to a few tenths of a foot. Wells with casing diameters greater than 4 inches may be purged at rates higher than 500 milliliters per minute because a larger submersible pump is used in these cases. If drawdown of greater than 1 foot is observed for a fluvial or alluvial well during purging, the well will be flagged for further evaluation to determine if it needs rehabilitation. Bedrock wells are excluded from this evaluation method due to the potential for larger drawdown during purging. Purging data, including purge rate, drawdown, and calculated specific capacity, are presented in Table 4.2. Specific capacity is calculated using the equation provided in Section 2.2.1.

Drawdown of greater than 1 foot was not observed during purging of monitoring wells in First Quarter 2026 (Table 4.2).

4.5 Response to Monitoring Well Performance Evaluation

Based on experience redeveloping MW-28-025, MW-30-030, and MW-39-040, and as discussed in the Third Quarter 2023 Well Performance Report (Arcadis 2023b), the following adjustments to the monitoring well redevelopment procedures have been implemented since Third Quarter 2023:

- Wells are redeveloped using a smaller-diameter surge block to reduce the risk of the surge block being lodged between sediment and the well casing.
- Wells located in fluvial sediments (see Well Screen Lithology column in Table 4.2), where sediment infiltration is likely given the screen slot size and/or filter pack combination, are not redeveloped. Redevelopment of these wells is expected to have a detrimental effect on well performance due to increased potential for sediment infiltration.
- Wells in which significant sediment infiltration occurs during redevelopment are not considered for future redevelopment.

First Quarter 2026 Well Performance Report

Monitoring well MW-38D has exhibited elevated pH (above 10 standard units) during consecutive quarterly sampling events starting in First Quarter 2025 and continuing through First Quarter 2026. Siltation and turbidity measurements at this well have remained low, and minimal drawdown has been observed during sampling. A downhole camera inspection of MW-38D was completed in April 2026 to help identify potential causes for the elevated pH readings. The well appeared to be in good condition with no visible damage. Redevelopment of MW-38D is scheduled for Second Quarter 2026.

5 Recommendations and Planned Activities for Next Reporting Period

Phase 1 groundwater remedy operations and the Phase 1 monitoring program will continue in Second Quarter 2026 (April through June 2026) in accordance with the O&M Manual (Appendix L, Volume 1 of the Final BOD; CH2M Hill 2015a) and Groundwater Remedy Phase 1 Interim Monitoring Plan (Arcadis 2021). No general changes to the current well rehabilitation program are proposed, although well specific rehabilitation recommendations will be implemented based on the results of diagnostic chemical and microbiological profiling by Water Systems Engineering.

In addition to routine groundwater remedy operations and monitoring, the following activities related to well performance are planned for Second Quarter 2026:

- Continue operating target NTH IRZ extraction and injection wells.
- Continue monitoring the NTH IRZ extraction and injection wells for potential well fouling.
- Continue to target backwashing the operating injection wells three times weekly during operation.
- Monitor average specific capacities for NTH IRZ extraction/injection wells and monitoring wells to determine if additional maintenance is needed.
- Continue inspections of monitoring wells as part of scheduled routine sampling. Redevelop MW-38D.
- Continue evaluating enhancements to the rehabilitation methodologies and conduct additional diagnostic sampling of injection wells IRZ-15, IRZ-29, IRZ-33, and IRZ-37 during the next rehabilitation event at these wells.

Well performance monitoring and well maintenance activities will be reported in the Second Quarter 2026 Well Performance Report. The Second Quarter 2026 Quarterly Progress Report will also be submitted to document operations and monitoring results in accordance with the O&M Manual (Appendix L, Volume 2 of the Final BOD; CH2M Hill 2015a).

6 References

- Arcadis. 2021. Groundwater Remedy Phase 1 Interim Monitoring Plan. Topock Compressor Station, Needles, California. October 1.
- Arcadis. 2022a. First Quarter 2022 Well Performance Report. PG&E Topock Compressor Station, Needles, California. June 30.
- Arcadis. 2022b. Second Quarter 2022 Quarterly Progress Report. PG&E Topock Compressor Station, Needles, California. September 2.
- Arcadis. 2022c. Second Quarter 2022 Well Performance Report. PG&E Topock Compressor Station, Needles, California. September 28.
- Arcadis. 2022d. Third Quarter 2022 Well Performance Report. PG&E Topock Compressor Station, Needles, California. December 14.
- Arcadis. 2023a. PTI-1D Floodplain Extraction Test Workplan. Topock Compressor Station, Needles, California. July 25.
- Arcadis. 2023b. Third Quarter 2023 Well Performance Report. PG&E Topock Compressor Station, Needles, California. December 14.
- Arcadis. 2025a. Fourth Quarter 2024 Well Performance Report. PG&E Topock Compressor Station, Needles, California. March 12.
- Arcadis. 2025b. Third Quarter 2025 Well Performance Report. PG&E Topock Compressor Station, Needles, California. November 14.
- Arcadis. In Progress. First Quarter 2026 Quarterly Progress Report. PG&E Topock Compressor Station, Needles, California.
- CH2M Hill. 2014. Final PG&E Program Quality Assurance Project Plan. November.
- CH2M Hill. 2015a. Basis of Design Report/Final (100%) Design Submittal for the Final Groundwater Remedy, PG&E Topock Compressor Station, Needles, California. November.
- CH2M Hill. 2015b. Construction/Remedial Action Work Plan for the Final Groundwater Remedy. PG&E Topock Compressor Station, Needles, California. November.
- Critigen. 2020. Addendum to the PG&E Program Quality Assurance Project Plan for Groundwater and Surface Water Sampling at the Topock Chromium Site. April.
- DOI. 2010. Groundwater Record of Decision, Pacific Gas and Electric Company, Topock Compressor Station, Needles, San Bernardino County, California. ROD cover date is December 2010; signed/approved by DOI on January 20, 2011.
- DOI. 2024. Email from V. Dickerson (DOI) to C. Ioan (DTSC) and J. Glass (PG&E). RE: PG&E Topock PTI-1D Extension Request. October 17.
- DTSC. 2024. Email from C. Ioan (DTSC) to J. Glass (PG&E). RE: PG&E Topock: PTI-1D Extension Request. October 1.

First Quarter 2026 Well Performance Report

- DTSC. 2025. Letter from C. Ioan (DTSC) to J. Glass (PG&E). Approval of Extension of PTI-1D Extraction Test at Pacific Gas and Electric Company (PG&E) Topock Compressor Station, Needles, California (EPA ID CAT080011729). November 17.
- DTSC and DOI. 2011. Memorandum of Understanding (MOU) concerning the coordination in overseeing the implementation of groundwater response action at Topock Compressor Station. November 22.
- PG&E. 2024. Letter from J. Glass (PG&E) to C. Ioan (DTSC) and V. Dickerson (DOI). Final PTI-1D Floodplain Extraction Test Workplan: Extension Request. September 20.
- PG&E. 2026. Letter from J. Glass (PG&E) to C. Ioan (DTSC). Response to DTSC's Wellhead Completion Concerns, PG&E Topock Compressor Station, Needles, California. February 13.

Tables

Table 3.1
Summary of NTH IRZ Well Operations
First Quarter 2026 Well Performance Report
Pacific Gas and Electric Company, Topock Compressor Station, Needles, California

Well ID	Aquifer Interval	Well Type	Operating Period	Recirculated Groundwater Volume (gal)	Ethanol Volume (gal)	Total Hours Operating (hours)	Active Time Operating (percent)	Average Flow Rate When Operating (gpm)
IRZ-15	Upper	Injection	Apr-25	223,525	9.7	458	64	8.1
IRZ-15	Upper	Injection	May-25	74,268	0	167	22	7.4
IRZ-15	Upper	Injection	Jun-25	187,744	9.4	418	58	7.5
IRZ-15	Upper	Injection	Jul-25	283,828	8.8	654	88	7.2
IRZ-15	Upper	Injection	Aug-25	329,414	10	733	98	7.5
IRZ-15	Upper	Injection	Sep-25	361,289	11	711	99	8.5
IRZ-15	Upper	Injection	Oct-25	364,219	12	637	86	9.5
IRZ-15	Upper	Injection	Nov-25	411,611	13	695	97	9.9
IRZ-15	Upper	Injection	Dec-25	169,102	11	321	43	8.8
IRZ-15	Upper	Injection	Jan-26	323,770	9.6	738	99	7.3
IRZ-15	Upper	Injection	Feb-26	304,668	9.9	668	99	7.6
IRZ-15	Upper	Injection	Mar-26	353,105	12	623	84	9.4
IRZ-15	Lower	Injection	Apr-25	197,393	8.7	458	64	7.2
IRZ-15	Lower	Injection	May-25	69,063	0	167	22	6.9
IRZ-15	Lower	Injection	Jun-25	217,188	11	418	58	8.7
IRZ-15	Lower	Injection	Jul-25	290,391	8.8	654	88	7.4
IRZ-15	Lower	Injection	Aug-25	238,506	6.7	731	98	5.4
IRZ-15	Lower	Injection	Sep-25	192,119	5.8	698	97	4.6
IRZ-15	Lower	Injection	Oct-25	161,709	5.3	638	86	4.2
IRZ-15	Lower	Injection	Nov-25	151,289	5.1	696	97	3.6
IRZ-15	Lower	Injection	Dec-25	108,330	6.7	321	43	5.6
IRZ-15	Lower	Injection	Jan-26	141,846	3.1	401	54	5.9
IRZ-15	Lower	Injection	Feb-26	239,688	7.7	668	99	6.0
IRZ-15	Lower	Injection	Mar-26	253,262	8.7	622	84	6.8
IRZ-16	Upper	Injection	Apr-25	200,010	8.5	458	64	7.3
IRZ-16	Upper	Injection	May-25	276,348	8.8	668	90	6.9
IRZ-16	Upper	Injection	Jun-25	53,818	4.4	137	19	6.5
IRZ-16	Upper	Injection	Jul-25	270,176	8.5	654	88	6.9
IRZ-16	Upper	Injection	Aug-25	378,330	12	732	98	8.6
IRZ-16	Upper	Injection	Sep-25	390,625	11	714	99	9.1
IRZ-16	Upper	Injection	Oct-25	362,021	12	638	86	9.5
IRZ-16	Upper	Injection	Nov-25	427,939	13	696	97	10.2
IRZ-16	Upper	Injection	Dec-25	461,367	20	715	96	10.7
IRZ-16	Upper	Injection	Jan-26	495,508	15	739	99	11.2
IRZ-16	Upper	Injection	Feb-26	216,250	--	293	44	12.3
IRZ-16	Upper	Injection	Mar-26	86,875	4.2	196	26	7.4
IRZ-16	Lower	Injection	Apr-25	247,842	11	458	64	9.0
IRZ-16	Lower	Injection	May-25	318,008	9.1	668	90	7.9
IRZ-16	Lower	Injection	Jun-25	61,982	4.7	137	19	7.5
IRZ-16	Lower	Injection	Jul-25	321,982	11	654	88	8.2
IRZ-16	Lower	Injection	Aug-25	345,479	10	731	98	7.9
IRZ-16	Lower	Injection	Sep-25	293,545	8.6	713	99	6.9
IRZ-16	Lower	Injection	Oct-25	237,832	7.8	637	86	6.2
IRZ-16	Lower	Injection	Nov-25	222,969	6.9	696	97	5.3
IRZ-16	Lower	Injection	Dec-25	211,367	9.6	716	96	4.9
IRZ-16	Lower	Injection	Jan-26	152,617	4.6	739	99	3.4
IRZ-16	Lower	Injection	Feb-26	59,941	--	293	44	3.4
IRZ-16	Lower	Injection	Mar-26	87,441	3.5	196	26	7.4
IRZ-17	Upper	Injection	Apr-25	90,996	3.7	233	32	6.5
IRZ-17	Upper	Injection	May-25	252,813	7.3	696	94	6.1
IRZ-17	Upper	Injection	Jun-25	124,160	5.9	447	62	4.6
IRZ-17	Upper	Injection	Jul-25	174,258	5.6	654	88	4.4
IRZ-17	Upper	Injection	Aug-25	94,590	2.5	302	41	5.2
IRZ-17	Upper	Injection	Sep-25	254,697	7.2	711	99	6.0
IRZ-17	Upper	Injection	Oct-25	245,938	8.1	638	86	6.4
IRZ-17	Upper	Injection	Nov-25	247,168	7.5	695	96	5.9
IRZ-17	Upper	Injection	Dec-25	257,100	7.9	707	95	6.1
IRZ-17	Upper	Injection	Jan-26	152,471	--	448	60	5.7
IRZ-17	Upper	Injection	Feb-26	39,316	--	107	16	6.1
IRZ-17	Upper	Injection	Mar-26	150,889	5.1	618	83	4.1
IRZ-17	Lower	Injection	Apr-25	45,586	1.9	233	32	3.3
IRZ-17	Lower	Injection	May-25	109,482	3.3	687	92	2.7
IRZ-17	Lower	Injection	Jun-25	52,803	2.9	446	62	2.0
IRZ-17	Lower	Injection	Jul-25	79,355	2.4	651	87	2.0
IRZ-17	Lower	Injection	Aug-25	44,600	1.7	301	40	2.5
IRZ-17	Lower	Injection	Sep-25	100,313	3.2	706	98	2.4
IRZ-17	Lower	Injection	Oct-25	76,045	2.5	636	85	2.0
IRZ-17	Lower	Injection	Nov-25	70,850	2.5	613	85	1.9
IRZ-17	Lower	Injection	Dec-25	79,150	2.6	703	94	1.9
IRZ-17	Lower	Injection	Jan-26	36,299	--	448	60	1.4
IRZ-17	Lower	Injection	Feb-26	16,592	--	107	16	2.6
IRZ-17	Lower	Injection	Mar-26	89,189	3.0	629	85	2.4
IRZ-18	Upper	Injection	Apr-25	139,666	4.3	370	51	6.3
IRZ-18	Upper	Injection	May-25	182,818	8.7	438	59	7.0
IRZ-18	Upper	Injection	Jun-25	110,778	4.7	440	61	4.2
IRZ-18	Upper	Injection	Jul-25	166,102	5.5	654	88	4.2
IRZ-18	Upper	Injection	Aug-25	149,356	2.1	673	90	3.7
IRZ-18	Upper	Injection	Sep-25	97,705	4.5	277	39	5.9
IRZ-18	Upper	Injection	Oct-25	220,315	8.9	649	87	5.7
IRZ-18	Upper	Injection	Nov-25	122,860	3.9	685	95	3.0
IRZ-18	Upper	Injection	Dec-25	129,186	5.5	708	95	3.0
IRZ-18	Upper	Injection	Jan-26	17,067	--	171	23	1.7
IRZ-18	Upper	Injection	Feb-26	94,893	2.2	455	68	3.5
IRZ-18	Upper	Injection	Mar-26	59,518	2.1	608	82	1.6
IRZ-18	Lower	Injection	Apr-25	66,021	1.8	370	51	3.0
IRZ-18	Lower	Injection	May-25	80,605	3.7	443	60	3.0
IRZ-18	Lower	Injection	Jun-25	73,428	3.7	445	62	2.8
IRZ-18	Lower	Injection	Jul-25	105,205	3.4	653	88	2.7
IRZ-18	Lower	Injection	Aug-25	103,447	1.5	679	91	2.5
IRZ-18	Lower	Injection	Sep-25	48,115	2.1	277	39	2.9
IRZ-18	Lower	Injection	Oct-25	113,428	3.7	652	88	2.9
IRZ-18	Lower	Injection	Nov-25	76,798	1.7	508	71	2.5

Table 3.1
Summary of NTH IRZ Well Operations
First Quarter 2026 Well Performance Report
Pacific Gas and Electric Company, Topock Compressor Station, Needles, California

Well ID	Aquifer Interval	Well Type	Operating Period	Recirculated Groundwater Volume (gal)	Ethanol Volume (gal)	Total Hours Operating (hours)	Active Time Operating (percent)	Average Flow Rate When Operating (gpm)
IRZ-18	Lower	Injection	Dec-25	100,928	3.3	708	95	2.4
IRZ-18	Lower	Injection	Jan-26	21,611	--	172	23	2.1
IRZ-18	Lower	Injection	Feb-26	61,309	1.6	450	67	2.3
IRZ-18	Lower	Injection	Mar-26	86,104	2.9	624	84	2.3
IRZ-20	Upper	Injection	Apr-25	154,611	7.7	368	51	7.0
IRZ-20	Upper	Injection	May-25	287,702	8.6	695	93	6.9
IRZ-20	Upper	Injection	Jun-25	173,184	7.8	441	61	6.5
IRZ-20	Upper	Injection	Jul-25	224,277	6.5	654	88	5.7
IRZ-20	Upper	Injection	Aug-25	93,828	2.3	718	96	2.2
IRZ-20	Upper	Injection	Sep-25	127,266	4.5	624	87	3.4
IRZ-20	Upper	Injection	Oct-25	130,840	3.4	388	52	5.6
IRZ-20	Upper	Injection	Nov-25	192,500	8.0	534	74	6.0
IRZ-20	Upper	Injection	Dec-25	287,246	9.3	674	91	7.1
IRZ-20	Upper	Injection	Jan-26	438,027	14	738	99	9.9
IRZ-20	Upper	Injection	Feb-26	482,754	15	669	100	12.0
IRZ-20	Upper	Injection	Mar-26	487,559	16	629	85	12.9
IRZ-20	Lower	Injection	Apr-25	111,387	6.2	368	51	5.0
IRZ-20	Lower	Injection	May-25	196,572	5.5	695	93	4.7
IRZ-20	Lower	Injection	Jun-25	114,463	5.1	443	62	4.3
IRZ-20	Lower	Injection	Jul-25	184,004	5.9	653	88	4.7
IRZ-20	Lower	Injection	Aug-25	204,082	5.9	731	98	4.7
IRZ-20	Lower	Injection	Sep-25	170,837	5.9	625	87	4.6
IRZ-20	Lower	Injection	Oct-25	102,412	2.7	388	52	4.4
IRZ-20	Lower	Injection	Nov-25	151,104	4.9	692	96	3.6
IRZ-20	Lower	Injection	Dec-25	118,047	5.4	712	96	2.8
IRZ-20	Lower	Injection	Jan-26	83,477	2.5	730	98	1.9
IRZ-20	Lower	Injection	Feb-26	54,717	1.9	642	96	1.4
IRZ-20	Lower	Injection	Mar-26	53,701	2.3	562	76	1.6
IRZ-21	Upper	Injection	Apr-25	--	--	--	--	--
IRZ-21	Upper	Injection	May-25	--	--	--	--	--
IRZ-21	Upper	Injection	Jun-25	--	--	--	--	--
IRZ-21	Upper	Injection	Jul-25	--	--	--	--	--
IRZ-21	Upper	Injection	Aug-25	--	--	--	--	--
IRZ-21	Upper	Injection	Sep-25	--	--	--	--	--
IRZ-21	Upper	Injection	Oct-25	--	--	--	--	--
IRZ-21	Upper	Injection	Nov-25	--	--	--	--	--
IRZ-21	Upper	Injection	Dec-25	--	--	--	--	--
IRZ-21	Upper	Injection	Jan-26	--	--	--	--	--
IRZ-21	Upper	Injection	Feb-26	--	--	--	--	--
IRZ-21	Upper	Injection	Mar-26	--	--	--	--	--
IRZ-21	Lower	Injection	Apr-25	--	--	--	--	--
IRZ-21	Lower	Injection	May-25	--	--	--	--	--
IRZ-21	Lower	Injection	Jun-25	--	--	--	--	--
IRZ-21	Lower	Injection	Jul-25	--	--	--	--	--
IRZ-21	Lower	Injection	Aug-25	--	--	--	--	--
IRZ-21	Lower	Injection	Sep-25	--	--	--	--	--
IRZ-21	Lower	Injection	Oct-25	--	--	--	--	--
IRZ-21	Lower	Injection	Nov-25	--	--	--	--	--
IRZ-21	Lower	Injection	Dec-25	--	--	--	--	--
IRZ-21	Lower	Injection	Jan-26	--	--	--	--	--
IRZ-21	Lower	Injection	Feb-26	--	--	--	--	--
IRZ-21	Lower	Injection	Mar-26	--	--	--	--	--
IRZ-25	Upper/Upper Middle	Injection	Apr-25	--	--	--	--	--
IRZ-25	Upper/Upper Middle	Injection	May-25	--	--	--	--	--
IRZ-25	Upper/Upper Middle	Injection	Jun-25	--	--	--	--	--
IRZ-25	Upper/Upper Middle	Injection	Jul-25	--	--	--	--	--
IRZ-25	Upper/Upper Middle	Injection	Aug-25	--	--	--	--	--
IRZ-25	Upper/Upper Middle	Injection	Sep-25	--	--	--	--	--
IRZ-25	Upper/Upper Middle	Injection	Oct-25	--	--	--	--	--
IRZ-25	Upper/Upper Middle	Injection	Nov-25	--	--	--	--	--
IRZ-25	Upper/Upper Middle	Injection	Dec-25	--	--	--	--	--
IRZ-25	Upper/Upper Middle	Injection	Jan-26	--	--	--	--	--
IRZ-25	Upper/Upper Middle	Injection	Feb-26	--	--	--	--	--
IRZ-25	Upper/Upper Middle	Injection	Mar-26	--	--	--	--	--
IRZ-25	Lower	Injection	Apr-25	--	--	--	--	--
IRZ-25	Lower	Injection	May-25	--	--	--	--	--
IRZ-25	Lower	Injection	Jun-25	--	--	--	--	--
IRZ-25	Lower	Injection	Jul-25	--	--	--	--	--
IRZ-25	Lower	Injection	Aug-25	--	--	--	--	--
IRZ-25	Lower	Injection	Sep-25	--	--	--	--	--
IRZ-25	Lower	Injection	Oct-25	--	--	--	--	--
IRZ-25	Lower	Injection	Nov-25	--	--	--	--	--
IRZ-25	Lower	Injection	Dec-25	--	--	--	--	--
IRZ-25	Lower	Injection	Jan-26	--	--	--	--	--
IRZ-25	Lower	Injection	Feb-26	--	--	--	--	--
IRZ-25	Lower	Injection	Mar-26	--	--	--	--	--
IRZ-27	Upper	Injection	Apr-25	25,975	1.7	136	19	3.2
IRZ-27	Upper	Injection	May-25	83,131	4.8	697	94	2.0
IRZ-27	Upper	Injection	Jun-25	60,739	4.5	654	91	1.5
IRZ-27	Upper	Injection	Jul-25	67,316	4.5	695	93	1.6
IRZ-27	Upper	Injection	Aug-25	66,735	3.9	717	96	1.6
IRZ-27	Upper	Injection	Sep-25	56,806	4.2	704	98	1.3
IRZ-27	Upper	Injection	Oct-25	43,683	4.1	562	76	1.3
IRZ-27	Upper	Injection	Nov-25	31,991	1.6	430	60	1.2
IRZ-27	Upper	Injection	Dec-25	19,569	1.5	306	41	1.1
IRZ-27	Upper	Injection	Jan-26	52,101	4.2	737	99	1.2
IRZ-27	Upper	Injection	Feb-26	44,674	4.2	664	99	1.1
IRZ-27	Upper	Injection	Mar-26	34,193	2.8	547	74	1.0
IRZ-27	Middle/Lower	Injection	Apr-25	66,045	4.6	153	21	7.2
IRZ-27	Middle/Lower	Injection	May-25	306,641	21	635	85	8.0
IRZ-27	Middle/Lower	Injection	Jun-25	352,637	24	661	92	8.9
IRZ-27	Middle/Lower	Injection	Jul-25	360,469	22	700	94	8.6

Table 3.1
Summary of NTH IRZ Well Operations
First Quarter 2026 Well Performance Report
Pacific Gas and Electric Company, Topock Compressor Station, Needles, California

Well ID	Aquifer Interval	Well Type	Operating Period	Recirculated Groundwater Volume (gal)	Ethanol Volume (gal)	Total Hours Operating (hours)	Active Time Operating (percent)	Average Flow Rate When Operating (gpm)
IRZ-27	Middle/Lower	Injection	Aug-25	417,129	25	727	98	9.6
IRZ-27	Middle/Lower	Injection	Sep-25	295,507	25	615	85	8.0
IRZ-27	Middle/Lower	Injection	Oct-25	246,865	25	582	78	7.1
IRZ-27	Middle/Lower	Injection	Nov-25	211,758	17	669	93	5.3
IRZ-27	Middle/Lower	Injection	Dec-25	117,578	6.6	334	45	5.9
IRZ-27	Middle/Lower	Injection	Jan-26	215,215	17	738	99	4.9
IRZ-27	Middle/Lower	Injection	Feb-26	172,705	15	668	99	4.3
IRZ-27	Middle/Lower	Injection	Mar-26	154,209	14	574	77	4.5
IRZ-29	Upper	Injection	Apr-25	209,570	13	454	63	7.7
IRZ-29	Upper	Injection	May-25	280,186	17	673	90	6.9
IRZ-29	Upper	Injection	Jun-25	149,512	13	447	62	5.6
IRZ-29	Upper	Injection	Jul-25	121,641	5.6	439	59	4.6
IRZ-29	Upper	Injection	Aug-25	--	--	--	--	--
IRZ-29	Upper	Injection	Sep-25	--	--	--	--	--
IRZ-29	Upper	Injection	Oct-25	--	--	--	--	--
IRZ-29	Upper	Injection	Nov-25	--	--	--	--	--
IRZ-29	Upper	Injection	Dec-25	--	--	--	--	--
IRZ-29	Upper	Injection	Jan-26	--	--	--	--	--
IRZ-29	Upper	Injection	Feb-26	180,615	8.1	454	68	6.6
IRZ-29	Upper	Injection	Mar-26	311,846	11	614	83	8.5
IRZ-29	Lower	Injection	Apr-25	164,891	11	454	63	6.1
IRZ-29	Lower	Injection	May-25	138,311	8.2	665	89	3.5
IRZ-29	Lower	Injection	Jun-25	68,027	6.5	438	61	2.6
IRZ-29	Lower	Injection	Jul-25	86,465	4.1	439	59	3.3
IRZ-29	Lower	Injection	Aug-25	--	--	--	--	--
IRZ-29	Lower	Injection	Sep-25	--	--	--	--	--
IRZ-29	Lower	Injection	Oct-25	--	--	--	--	--
IRZ-29	Lower	Injection	Nov-25	--	--	--	--	--
IRZ-29	Lower	Injection	Dec-25	--	--	--	--	--
IRZ-29	Lower	Injection	Jan-26	--	--	--	--	--
IRZ-29	Lower	Injection	Feb-26	93,320	2.3	447	67	3.5
IRZ-29	Lower	Injection	Mar-26	122,705	4.3	608	82	3.4
IRZ-31	Upper	Injection	Apr-25	248,135	17	458	64	9.0
IRZ-31	Upper	Injection	May-25	376,348	23	698	94	9.0
IRZ-31	Upper	Injection	Jun-25	213,613	19	448	62	7.9
IRZ-31	Upper	Injection	Jul-25	198,818	9.2	440	59	7.5
IRZ-31	Upper	Injection	Aug-25	128,369	10	297	40	7.2
IRZ-31	Upper	Injection	Sep-25	155,771	8.8	386	54	6.7
IRZ-31	Upper	Injection	Oct-25	206,445	13	456	61	7.5
IRZ-31	Upper	Injection	Nov-25	186,289	13	642	89	4.8
IRZ-31	Upper	Injection	Dec-25	136,797	9.5	709	95	3.2
IRZ-31	Upper	Injection	Jan-26	109,844	6.4	717	96	2.6
IRZ-31	Upper	Injection	Feb-26	65,342	4.1	659	98	1.7
IRZ-31	Upper	Injection	Mar-26	31,953	--	206	28	2.6
IRZ-31	Lower	Injection	Apr-25	140,797	9.5	457	63	5.1
IRZ-31	Lower	Injection	May-25	169,183	10	697	94	4.0
IRZ-31	Lower	Injection	Jun-25	94,219	8.4	445	62	3.5
IRZ-31	Lower	Injection	Jul-25	103,037	4.6	439	59	3.9
IRZ-31	Lower	Injection	Aug-25	21,016	1.2	221	30	1.6
IRZ-31	Lower	Injection	Sep-25	2,101	0.48	60	8.3	0.6
IRZ-31	Lower	Injection	Oct-25	35,332	2.2	442	59	1.3
IRZ-31	Lower	Injection	Nov-25	57,275	3.9	660	92	1.4
IRZ-31	Lower	Injection	Dec-25	110,381	8.3	706	95	2.6
IRZ-31	Lower	Injection	Jan-26	104,111	6.6	723	97	2.4
IRZ-31	Lower	Injection	Feb-26	70,674	4.3	659	98	1.8
IRZ-31	Lower	Injection	Mar-26	34,238	--	209	28	2.7
IRZ-33	Upper	Injection	Apr-25	196,522	13	458	64	7.2
IRZ-33	Upper	Injection	May-25	283,686	17	700	94	6.8
IRZ-33	Upper	Injection	Jun-25	245,703	18	635	88	6.4
IRZ-33	Upper	Injection	Jul-25	187,861	8.4	487	65	6.4
IRZ-33	Upper	Injection	Aug-25	--	--	--	--	--
IRZ-33	Upper	Injection	Sep-25	--	--	--	--	--
IRZ-33	Upper	Injection	Oct-25	--	--	--	--	--
IRZ-33	Upper	Injection	Nov-25	--	--	--	--	--
IRZ-33	Upper	Injection	Dec-25	--	--	--	--	--
IRZ-33	Upper	Injection	Jan-26	31,777	--	79	11	6.7
IRZ-33	Upper	Injection	Feb-26	257,227	16	658	98	6.5
IRZ-33	Upper	Injection	Mar-26	200,918	6.5	613	82	5.5
IRZ-33	Lower	Injection	Apr-25	53,082	3.7	441	61	2.0
IRZ-33	Lower	Injection	May-25	71,189	4.9	664	89	1.8
IRZ-33	Lower	Injection	Jun-25	56,896	4.3	600	83	1.6
IRZ-33	Lower	Injection	Jul-25	40,219	1.0	419	56	1.6
IRZ-33	Lower	Injection	Aug-25	--	--	--	--	--
IRZ-33	Lower	Injection	Sep-25	--	--	--	--	--
IRZ-33	Lower	Injection	Oct-25	--	--	--	--	--
IRZ-33	Lower	Injection	Nov-25	--	--	--	--	--
IRZ-33	Lower	Injection	Dec-25	--	--	--	--	--
IRZ-33	Lower	Injection	Jan-26	8,648	--	57	7.7	2.5
IRZ-33	Lower	Injection	Feb-26	57,386	3.3	618	92	1.5
IRZ-33	Lower	Injection	Mar-26	46,936	1.9	528	71	1.5
IRZ-35	Upper	Injection	Apr-25	210,645	14	458	64	7.7
IRZ-35	Upper	Injection	May-25	316,309	20	699	94	7.5
IRZ-35	Upper	Injection	Jun-25	245,420	18	630	88	6.5
IRZ-35	Upper	Injection	Jul-25	181,240	8.2	486	65	6.2
IRZ-35	Upper	Injection	Aug-25	--	--	--	--	--
IRZ-35	Upper	Injection	Sep-25	--	--	--	--	--
IRZ-35	Upper	Injection	Oct-25	--	--	--	--	--
IRZ-35	Upper	Injection	Nov-25	--	--	--	--	--
IRZ-35	Upper	Injection	Dec-25	--	--	--	--	--
IRZ-35	Upper	Injection	Jan-26	--	--	--	--	--
IRZ-35	Upper	Injection	Feb-26	--	--	--	--	--
IRZ-35	Upper	Injection	Mar-26	--	--	--	--	--

Table 3.1
Summary of NTH IRZ Well Operations
First Quarter 2026 Well Performance Report
Pacific Gas and Electric Company, Topock Compressor Station, Needles, California

Well ID	Aquifer Interval	Well Type	Operating Period	Recirculated Groundwater Volume (gal)	Ethanol Volume (gal)	Total Hours Operating (hours)	Active Time Operating (percent)	Average Flow Rate When Operating (gpm)
IRZ-37	Upper	Injection	Apr-25	67,356	4.9	458	64	2.5
IRZ-37	Upper	Injection	May-25	47,126	3.9	570	77	1.4
IRZ-37	Upper	Injection	Jun-25	112,500	6.5	419	58	4.5
IRZ-37	Upper	Injection	Jul-25	218,954	13	701	94	5.2
IRZ-37	Upper	Injection	Aug-25	141,328	8.5	697	94	3.4
IRZ-37	Upper	Injection	Sep-25	66,115	4.0	688	96	1.6
IRZ-37	Upper	Injection	Oct-25	28,868	2.9	452	61	1.1
IRZ-37	Upper	Injection	Nov-25	75,694	7.1	286	40	4.4
IRZ-37	Upper	Injection	Dec-25	131,378	9.0	648	87	3.4
IRZ-37	Upper	Injection	Jan-26	78,286	4.7	721	97	1.8
IRZ-37	Upper	Injection	Feb-26	48,878	3.2	642	96	1.3
IRZ-37	Upper	Injection	Mar-26	25,865	0.97	588	79	0.73
IRZ-39	Upper	Injection	Apr-25	10,120	0.95	247	34	0.7
IRZ-39	Upper	Injection	May-25	16,076	0.92	593	80	0.5
IRZ-39	Upper	Injection	Jun-25	8,268	0.58	203	28	0.7
IRZ-39	Upper	Injection	Jul-25	35,234	1.8	681	92	0.9
IRZ-39	Upper	Injection	Aug-25	15,465	0.83	535	72	0.5
IRZ-39	Upper	Injection	Sep-25	7,928	0.53	326	45	0.4
IRZ-39	Upper	Injection	Oct-25	5,455	0.46	219	29	0.4
IRZ-39	Upper	Injection	Nov-25	--	--	--	--	--
IRZ-39	Upper	Injection	Dec-25	55,534	5.1	668	90	1.4
IRZ-39	Upper	Injection	Jan-26	41,931	3.5	680	91	1.0
IRZ-39	Upper	Injection	Feb-26	17,387	1.8	528	79	0.55
IRZ-39	Upper	Injection	Mar-26	11,862	2.0	346	47	0.57
IRZ-9	Upper	Extraction	Apr-25	--	--	--	--	--
IRZ-9	Upper	Extraction	May-25	6,977	--	3.4	0	34.0
IRZ-9	Upper	Extraction	Jun-25	660,865	--	137	19	80.4
IRZ-9	Upper	Extraction	Jul-25	1,428,033	--	294	40	80.9
IRZ-9	Upper	Extraction	Aug-25	1,692	--	4.6	0.62	6.2
IRZ-9	Upper	Extraction	Sep-25	--	--	--	--	--
IRZ-9	Upper	Extraction	Oct-25	--	--	--	--	--
IRZ-9	Upper	Extraction	Nov-25	4,544	--	1.8	0.25	41.3
IRZ-9	Upper	Extraction	Dec-25	--	--	--	--	--
IRZ-9	Upper	Extraction	Jan-26	--	--	--	--	--
IRZ-9	Upper	Extraction	Feb-26	--	--	--	--	--
IRZ-9	Upper	Extraction	Mar-26	3,513	--	3.4	0.46	17.2
IRZ-13D	Lower	Extraction	Apr-25	219,365	--	355	49	10.3
IRZ-13D	Lower	Extraction	May-25	58,594	--	92	12	10.6
IRZ-13D	Lower	Extraction	Jun-25	--	--	--	--	--
IRZ-13D	Lower	Extraction	Jul-25	83,926	--	148	20	9.5
IRZ-13D	Lower	Extraction	Aug-25	194,473	--	233	31	13.9
IRZ-13D	Lower	Extraction	Sep-25	74,111	--	39	5.4	31.6
IRZ-13D	Lower	Extraction	Oct-25	139,746	--	261	35	8.9
IRZ-13D	Lower	Extraction	Nov-25	200,645	--	277	38	12.1
IRZ-13D	Lower	Extraction	Dec-25	--	--	--	--	--
IRZ-13D	Lower	Extraction	Jan-26	--	--	--	--	--
IRZ-13D	Lower	Extraction	Feb-26	307,656	--	436	65	11.8
IRZ-13D	Lower	Extraction	Mar-26	178,760	--	281	38	10.6
IRZ-13S	Upper	Extraction	Apr-25	--	--	--	--	--
IRZ-13S	Upper	Extraction	May-25	3,018	--	3.2	0	15.9
IRZ-13S	Upper	Extraction	Jun-25	--	--	--	--	--
IRZ-13S	Upper	Extraction	Jul-25	--	--	--	--	--
IRZ-13S	Upper	Extraction	Aug-25	104,180	--	59	7.9	29.6
IRZ-13S	Upper	Extraction	Sep-25	70,801	--	39	5.4	30.2
IRZ-13S	Upper	Extraction	Oct-25	--	--	--	--	--
IRZ-13S	Upper	Extraction	Nov-25	1,631	--	2.3	0.32	11.6
IRZ-13S	Upper	Extraction	Dec-25	--	--	--	--	--
IRZ-13S	Upper	Extraction	Jan-26	--	--	--	--	--
IRZ-13S	Upper	Extraction	Feb-26	--	--	--	--	--
IRZ-13S	Upper	Extraction	Mar-26	2,158	--	3.5	0.47	10.3
IRZ-23	Lower	Extraction	Apr-25	1,912,914	--	458	64	69.6
IRZ-23	Lower	Extraction	May-25	2,740,355	--	696	94	65.6
IRZ-23	Lower	Extraction	Jun-25	1,634,113	--	662	92	41.1
IRZ-23	Lower	Extraction	Jul-25	2,077,734	--	703	95	49.3
IRZ-23	Lower	Extraction	Aug-25	2,351,098	--	674	91	58.2
IRZ-23	Lower	Extraction	Sep-25	2,343,051	--	679	94	57.5
IRZ-23	Lower	Extraction	Oct-25	2,316,410	--	660	89	58.5
IRZ-23	Lower	Extraction	Nov-25	2,314,555	--	694	96	55.6
IRZ-23	Lower	Extraction	Dec-25	2,364,098	--	717	96	55.0
IRZ-23	Lower	Extraction	Jan-26	2,413,918	--	741	100	54.3
IRZ-23	Lower	Extraction	Feb-26	2,158,258	--	672	100	53.5
IRZ-23	Lower	Extraction	Mar-26	2,430,180	--	629	85	64.4
PTI-1D	Lower	Extraction	Apr-25	620,898	--	458	64	22.6
PTI-1D	Lower	Extraction	May-25	977,617	--	693	93	23.5
PTI-1D	Lower	Extraction	Jun-25	446,211	--	309	43	24.1
PTI-1D	Lower	Extraction	Jul-25	2,617	--	1.7	0.22	26.2
PTI-1D	Lower	Extraction	Aug-25	7,314	--	4.6	0.62	26.6
PTI-1D	Lower	Extraction	Sep-25	5,088	--	3.3	0.45	26.1
PTI-1D	Lower	Extraction	Oct-25	4,033	--	2.8	0.37	24.4
PTI-1D	Lower	Extraction	Nov-25	664	--	0.42	0.06	26.6
PTI-1D	Lower	Extraction	Dec-25	3,174	--	2.0	0.27	26.4
PTI-1D	Lower	Extraction	Jan-26	2,529	--	2.0	0.27	21.1
PTI-1D	Lower	Extraction	Feb-26	3,115	--	2.0	0.30	26.0
PTI-1D	Lower	Extraction	Mar-26	5,605	--	3.5	0.47	26.7

Table 3.1
Summary of NTH IRZ Well Operations
First Quarter 2026 Well Performance Report
Pacific Gas and Electric Company, Topock Compressor Station, Needles, California

Note:

1. Results collected during the reporting period are bolded.

Acronyms and Abbreviations:

-- = not applicable

gal = gallon

gpm = gallon per minute

ID = identification

IRZ = In Situ Reactive Zone

NTH = National Trails Highway

Table 3.2
NTH IRZ System Operations and Non-Routine Maintenance Log
First Quarter 2026 Well Performance Report
Pacific Gas and Electric Company, Topock Compressor Station, Needles, California

Date	Approximate IRZ Systemwide Downtime (days)	Operations and Maintenance Log	Notes
1/1/2026	0.1	IRZ system offline.	Rain infiltration at well vaults.
1/2/2026 through 1/5/2026	--	IRZ-15 (lower) offline from 17:50 on 1/2 through 6:05 on 1/5 (approximately 60 hours).	Loose wiring caused transducer fault.
1/5/2026	--	Backwashed IRZ injection wells IRZ-15, IRZ-16, IRZ-17, IRZ-18, IRZ-20, IRZ-27, IRZ-31, IRZ-37, and IRZ-39.	--
1/6/2026	--	Ethanol dosing occurred in southern IRZ.	--
1/6/2026	--	Collected manual water level readings at IRZ injection wells IRZ-31 (lower) and IRZ-37.	Collected readings to confirm transducer readings. Offset adjustment at IRZ-37.
1/7/2026	--	Backwashed IRZ injection wells IRZ-15, IRZ-16, IRZ-17, IRZ-18, IRZ-20, IRZ-27, IRZ-31, IRZ-37, and IRZ-39.	--
1/8/2026	--	Ethanol dosing occurred at IRZ-27. Manual ethanol dosing occurred at IRZ-39.	--
1/8/2026 through 1/9/2026	--	Reinjected conditioned water into injection wells.	--
1/9/2026	--	Backwashed IRZ injection wells IRZ-15, IRZ-16, IRZ-17, IRZ-20, IRZ-27, IRZ-31, IRZ-37, and IRZ-39.	--
1/8/2026 through 2/8/2026	--	IRZ-18 offline for well rehabilitation.	--
1/11/2026 through 1/15/2026	--	IRZ-15 (lower) offline for approximately 4 days.	IRZ-15 packer deflated due to hose leak. Hose replaced on 1/15/2026. Transducer producing inaccurate water level data.
1/12/2026	--	Backwashed IRZ injection wells IRZ-15, IRZ-16, IRZ-17, IRZ-20, IRZ-27, IRZ-31, IRZ-37, and IRZ-39.	--
1/13/2026	--	Ethanol dosing occurred.	IRZ-17 not dosed in anticipation of collecting well casing sample prior to well rehabilitation.
1/14/2026	--	Backwashed IRZ injection wells IRZ-15 (upper), IRZ-16, IRZ-17, IRZ-20, IRZ-27, IRZ-31, IRZ-37, and IRZ-39.	--
1/15/2026 through 1/16/2026	--	Reinjected conditioned water into injection wells.	--
1/16/2026	--	Backwashed IRZ injection wells IRZ-15, IRZ-16, IRZ-17, IRZ-20, IRZ-27, IRZ-31, IRZ-37, and IRZ-39.	--
1/16/2026 through 1/23/2026	--	IRZ-15 (lower) offline.	Transducer producing inaccurate water level data.
1/20/2026	--	Ethanol dosing occurred in southern IRZ.	--
1/20/2026 through 1/21/2026	--	IRZ-17 offline for approximately 1 day preceding well rehabilitation.	Well casing sample taken on 1/21/2026 at IRZ-17 requires at least 12 hours of well downtime.
1/20/2026 through 1/21/2026	--	Reinjected conditioned water into injection wells.	--
1/21/2026 through 2/24/2026	--	IRZ-17 offline for well rehabilitation.	--
1/21/2026	--	Backwashed IRZ injection wells IRZ-27 and IRZ-39.	No more outdoor work completed on 1/21/2026 due to poor air quality.
1/22/2026	--	Ethanol dosing occurred at IRZ-27. Manual ethanol dosing occurred at IRZ-39.	--
1/23/2026	--	Backwashed IRZ injection wells IRZ-15 (upper), IRZ-16, IRZ-20, IRZ-27, IRZ-31, IRZ-37, and IRZ-39.	--
1/23/2026	--	Transducer replaced at IRZ-15 (lower).	Transducer producing inaccurate water level data.
1/26/2026	--	Backwashed IRZ injection wells IRZ-15, IRZ-16, IRZ-20, IRZ-27, IRZ-31, IRZ-37, and IRZ-39.	--
1/26/2026 through 2/2/2026	--	Rehabilitation paused at IRZ-17 and IRZ-18.	Rehabilitation rig began leaking. Leak contained and no spill occurred. Rehabilitation rig moved offsite for service.
1/27/2026	--	Ethanol dosing occurred.	--
1/27/2026	--	FCV at IRZ-33 (lower) replaced.	FCV malfunctioning.
1/28/2026	--	IRZ-33 (upper) cycled online.	Maintain extraction goal in floodplain (at IRZ-23) while wells are down for rehabilitation.
1/28/2026	--	Backwashed IRZ injection wells IRZ-15, IRZ-16, IRZ-20, IRZ-27, IRZ-31, IRZ-37, and IRZ-39.	--
1/29/2026	--	IRZ-33 (lower) cycled online.	Maintain extraction goal in floodplain (at IRZ-23) while wells are down for rehabilitation.
1/29/2026 through 1/30/2026	--	Reinjected conditioned water into injection wells.	--
1/30/2026	--	Backwashed IRZ injection wells IRZ-15, IRZ-16, IRZ-20, IRZ-27, IRZ-31, IRZ-33, IRZ-37, and IRZ-39.	--
1/30/2026	--	Collected manual water level readings at IRZ injection wells IRZ-31 and IRZ-33.	Collected readings to confirm transducer readings. Offset adjustment at IRZ-33 (lower).
2/2/2026	--	Backwashed IRZ injection wells IRZ-15, IRZ-16, IRZ-20, IRZ-27, IRZ-31, IRZ-33, IRZ-37, and IRZ-39.	--
2/3/2026	--	Ethanol dosing occurred in southern IRZ.	--
2/4/2026	--	Backwashed IRZ injection wells IRZ-15, IRZ-16, IRZ-20, IRZ-27, IRZ-31, IRZ-33, IRZ-37, and IRZ-39.	--
2/4/2026	--	Transducers replaced at IRZ-33 (upper and lower).	Transducers were installed incorrectly following the most recent rehabilitation event.
2/5/2026	--	Ethanol dosing occurred at IRZ-27. Manual ethanol dosing occurred at IRZ-39.	--
2/5/2026 through 2/6/2026	--	Reinjected conditioned water into injection wells.	--
2/6/2026	--	Backwashed IRZ injection wells IRZ-15, IRZ-16, IRZ-20, IRZ-27, IRZ-31, IRZ-33, IRZ-37, and IRZ-39.	--
2/7/2026	--	Packer hose repair at IRZ-29.	Packer leak beneath well seal.
2/8/2026 through 2/13/2026	--	Reinjected conditioned water into injection wells.	--
2/9/2026	--	Backwashed IRZ injection wells IRZ-15, IRZ-16, IRZ-20, IRZ-27, IRZ-31, IRZ-33, IRZ-37, and IRZ-39.	--
2/9/2026	--	IRZ-29 cycled online.	Maintain extraction goal in floodplain (at IRZ-23) while allowing IRZ-13 (lower) to come online.
2/9/2026	--	Collected manual water level readings at IRZ injection well IRZ-18.	--
2/10/2026	--	IRZ-13 (lower) cycled on.	Provide hydraulic control of the deep lobe of the Cr6 plume to the north.
2/10/2026 through 2/17/2026	--	IRZ-16 offline for approximately 8 days prior to planned well rehabilitation.	Well casing sample planned for 2/17/2026 at IRZ-16 requires at least 12 hours of well downtime and no ethanol dosing the prior week. Holiday and staffing shortages necessitated that the well remain offline after it was turned off for ethanol dosing 2/10/2026. Rehabilitation rig repair delayed the rehabilitation schedule on 2/17/2026 and the well was brought online.
2/10/2026	--	Ethanol dosing occurred.	--
2/11/2026	--	Backwashed IRZ injection wells IRZ-15, IRZ-18, IRZ-20, IRZ-27, IRZ-29, IRZ-31, IRZ-33, IRZ-37, and IRZ-39.	--
2/12/2026	--	New pH probe and cable installed at influent tank 1.	pH probe stopped communicating readings and was unable to be calibrated in August 2025. Manual readings taken during the period of time the probe was not functional.
2/17/2026	--	Ethanol dosing occurred in southern IRZ.	--
2/17/2026	--	Channel inputs switched on pH probes at influent tanks 1 and 2.	pH probes at influent tanks 1 and 2 were not reading correctly on SCADA due to incorrect channel inputs.
2/18/2026	--	Channel inputs switched on pH probe at effluent tank.	pH probe at the effluent tank was not reading correctly on SCADA due to incorrect channel inputs.
2/18/2026	--	Backwashed IRZ injection wells IRZ-15, IRZ-16, IRZ-18, IRZ-20, IRZ-27, IRZ-31, IRZ-33, IRZ-37, and IRZ-39.	Fail start alarm prevented backwash at IRZ-29 (upper). Broken wye check valve prevented backwash at IRZ-29 (lower).
2/18/2026 through 2/20/2026	--	Reinjected conditioned water into injection wells.	--
2/19/2026	--	Ethanol dosing occurred at IRZ-27. Manual ethanol dosing occurred at IRZ-39.	--
2/20/2026	--	Backwashed IRZ injection wells IRZ-15, IRZ-16, IRZ-18, IRZ-20, IRZ-27, IRZ-29 (upper), IRZ-31, IRZ-33, IRZ-37, and IRZ-39.	Broken wye check valve prevented backwash at IRZ-29 (lower).
2/20/2026	--	Collected manual water level readings at IRZ injection well IRZ-29.	Collected readings to confirm transducer readings. Offset adjustment at IRZ-29 (lower).
2/20/2026 through 2/23/2026	--	IRZ-16 offline for approximately 2.5 days preceding well rehabilitation.	Well casing sample taken on 2/23/2026 at IRZ-16 requires at least 12 hours of well downtime. Casing sample taken on a Monday; therefore, well came offline on Friday afternoon.
2/23/2026	--	Backwashed IRZ injection wells IRZ-15, IRZ-18, IRZ-20, IRZ-27, IRZ-29 (upper), IRZ-31, IRZ-33, IRZ-37, and IRZ-39.	Broken wye check valve prevented backwash at IRZ-29 (lower).

Table 3.2
NTH IRZ System Operations and Non-Routine Maintenance Log
First Quarter 2026 Well Performance Report
Pacific Gas and Electric Company, Topock Compressor Station, Needles, California

Date	Approximate IRZ Systemwide Downtime (days)	Operations and Maintenance Log	Notes
2/23/2026 through 2/25/2026	--	Reinjected conditioned water into injection wells.	--
2/23/2026 through 3/21/2026	--	IRZ-16 offline for well rehabilitation.	--
2/24/2026	--	Ethanol dosing occurred.	--
2/24/2026	--	Wye check valve replaced at IRZ-29 (lower).	Well could not be backwashed with broken wye check valve.
2/25/2026	--	Backwashed IRZ injection wells IRZ-15, IRZ-17, IRZ-18, IRZ-20, IRZ-27, IRZ-29, IRZ-31, IRZ-33, IRZ-37, and IRZ-39.	--
2/25/2026	--	Collected manual water level readings at IRZ injection wells IRZ-15 (upper) and IRZ-37.	Collected readings to confirm transducer readings. Offset adjustment at IRZ-37.
3/2/2026	--	Backwashed IRZ injection wells IRZ-15, IRZ-17, IRZ-18, IRZ-20, IRZ-27, IRZ-29, IRZ-31, IRZ-33, IRZ-37, and IRZ-39.	--
3/2/2026 through 3/4/2026	--	Reinjected conditioned water into injection wells.	--
3/3/2026	--	Ethanol dosing occurred at IRZ-27. Manual ethanol dosing occurred at IRZ-39.	--
3/4/2026	--	Backwashed IRZ injection wells IRZ-15, IRZ-17, IRZ-18, IRZ-20, IRZ-27, IRZ-29, IRZ-31, IRZ-33, IRZ-37, and IRZ-39.	--
3/5/2026	--	Ethanol dosing occurred at IRZ-27. Manual ethanol dosing occurred at IRZ-39.	--
3/5/2026 through 3/24/2026	--	IRZ-31 offline for well rehabilitation.	--
3/6/2026	--	Backwashed IRZ injection wells IRZ-15, IRZ-17, IRZ-18, IRZ-20, IRZ-27, IRZ-29, IRZ-33, IRZ-37, and IRZ-39.	--
3/7/2026 through 3/10/2026	--	Rehabilitation paused at IRZ-16 and IRZ-31.	Rehabilitation rig began leaking. Leak contained and no spill occurred. Rehabilitation rig moved offsite for service.
3/9/2026	--	Backwashed IRZ injection wells IRZ-15, IRZ-17, IRZ-18, IRZ-20, IRZ-27, IRZ-29, IRZ-33, IRZ-37, and IRZ-39.	--
3/9/2026 through 3/10/2026	--	Reinjected conditioned water into injection wells.	--
3/10/2026	--	Ethanol dosing occurred.	--
3/11/2026	--	Backwashed IRZ injection wells IRZ-15, IRZ-17, IRZ-18, IRZ-20, IRZ-27, IRZ-29, IRZ-33, IRZ-37, and IRZ-39.	--
3/12/2026	--	IRZ-13 (lower) cycled off.	Prioritized increased extraction from IRZ-23.
3/12/2026 through 3/17/2026	4.4	IRZ system offline.	Unplanned power loss at TCS.
3/17/2026	--	Manual ethanol dosing occurred at IRZ-39.	System reenergization did not allow enough time to run dosing at IRZ-27. Sufficient time to complete manual dosing. IRZ-39 dosed with ethanol from draining the line for ethanol repair at CAB on 3/13/2026.
3/18/2026	--	Backwashed IRZ injection wells IRZ-27 and IRZ-39.	Reduced backwash schedule to accommodate revised sampling schedule due to TCS power loss between 3/12/2026 and 3/17/2026. Wells to be dosed on 3/19/2026 prioritized for backwashing.
3/19/2026	--	Ethanol dosing occurred at IRZ-27. Manual ethanol dosing occurred at IRZ-39.	--
3/20/2026	--	Backwashed IRZ injection wells IRZ-15, IRZ-17, IRZ-18, IRZ-20, IRZ-27, IRZ-29, IRZ-33, IRZ-37, and IRZ-39.	--
3/21/2026 through 3/23/2026	--	IRZ-16 offline for approximately 2 days following well rehabilitation.	Well rehabilitation completed on a Saturday. No operations staff onsite to bring IRZ-16 online until Monday.
3/23/2026	--	Backwashed IRZ injection wells IRZ-15, IRZ-17, IRZ-18, IRZ-20, IRZ-27, IRZ-29, IRZ-33, IRZ-37, and IRZ-39.	--
3/23/2026 through 3/24/2026	--	Reinjected conditioned water into injection wells.	--
3/24/2026 through 3/25/2026	--	IRZ-31 offline for approximately 1 day following well rehabilitation.	Well rehabilitation completed on an ethanol dosing day. Waited until dosing was complete to bring the well online.
3/24/2026	--	Ethanol dosing occurred.	--
3/25/2026	--	Backwashed IRZ injection wells IRZ-15, IRZ-16, IRZ-17, IRZ-18, IRZ-20, IRZ-27, IRZ-29, IRZ-33, IRZ-37, and IRZ-39.	--
3/27/2026	--	Collected manual water level readings at IRZ injection well IRZ-15 (lower).	Collected readings to confirm transducer readings. Offset adjustment at IRZ-15 (lower).
3/27/2026	--	Backwashed IRZ injection wells IRZ-15, IRZ-16, IRZ-17, IRZ-18, IRZ-20, IRZ-27, IRZ-29, IRZ-31 (lower), IRZ-33, IRZ-37, and IRZ-39.	Unable to backwash IRZ-31 (upper). Rehabilitation crew connected injection line to backwash pump while reinstalling. Piping was corrected on 3/29/2026. Wiring corrected on 3/30/2026 to restore well to full operation.
3/29/2026 through 3/30/2026	--	IRZ-31 (upper) offline for approximately 1 day.	Rehabilitation crew reinstalled piping incorrectly. Well taken offline to correct piping and associated wiring.
3/29/2026 through 5/4/2026	--	IRZ-27 offline for well rehabilitation.	--
3/30/2026	0.2	IRZ system offline.	Unplanned power loss at TCS.
3/30/2026	--	Backwashed IRZ injection wells IRZ-31 and IRZ-39.	System reenergization did not allow enough time for full backwash. IRZ-31 (upper) was not backwashed on 3/27/2026 and IRZ-39 was to be manually dosed on 3/31/2026; therefore, IRZ-31 and IRZ-39 were prioritized for backwash.
3/30/2026 through 4/1/2026	--	Reinjected conditioned water into injection wells.	--
3/31/2026	--	Manual ethanol dosing occurred at IRZ-39.	--

Note:
1. Injection wells in the northern IRZ include IRZ-15, IRZ-16, IRZ-17, IRZ-18, and IRZ-20. Injection wells in the southern IRZ include IRZ-27, IRZ-29, IRZ-31, IRZ-33, IRZ-35, IRZ-37, and IRZ-39.

Acronyms and Abbreviations:

- = not applicable
- CAB = Carbon Amendment Building
- Cr6 = hexavalent chromium
- FCV = flow control valve
- IRZ = In Situ Reactive Zone
- NTH = National Trails Highway
- SCADA = supervisory control and data acquisition
- TCS = Topock Compressor Station

Table 3.3
First Quarter 2026 Water Quality Field Parameters
First Quarter 2026 Well Performance Report
Pacific Gas and Electric Company, Topock Compressor Station, Needles, California

Well ID	Sample Date	Depth to Water (ft bTOC)	pH	Specific Conductance (µS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature (deg C)	Salinity (ppt)	Total Dissolved Solids (mg/L)	ORP (mV)
Extraction Wells										
IRZ-09-100	03/18/2026	nm	7.35	7,687	0.25	2.31	29.1	nm	nm	5.0
IRZ-13D-210	03/18/2026	nm	7.31	9,839	0.17	0.76	28.9	nm	nm	-13.3
IRZ-13S-095	03/18/2026	nm	7.37	6,887	1.38	1.87	29.7	nm	nm	-2.4
IRZ-23-143	03/18/2026	nm	6.52	3,501	3.18	-- ^a	27.5	nm	nm	-33.0
PTI-1D	01/22/2026	nm	6.92	13,653	0.30	0.89	21.9	nm	nm	52.3
PTI-1D	02/18/2026	nm	6.35	15,493	0.30	1.60	24.1	nm	nm	63.3
PTI-1D	03/18/2026	nm	7.15	859	2.60	3.01	29.1	nm	nm	-9.3
Monitoring Wells										
IRZ-21-065	03/18/2026	nm	6.96	7,724	1.07	1.32	28.7	nm	nm	6.1
IRZ-21-157	03/18/2026	nm	7.04	7,269	2.19	0.89	28.4	nm	nm	-22.0
IRZ-25-100	03/18/2026	nm	6.56	5,864	62.30	2.15	28.5	nm	nm	-1.6
IRZ-25-166	03/18/2026	nm	6.76	7,049	4.39	1.20	29.0	nm	nm	-1.7
MW-09	02/24/2026	82.77	6.99	3,967	13.00	2.43	23.5	2.17	2,639	172.6
MW-10	01/26/2026	77.23	7.14	1,265	29.00	3.87	27.0	0.63	820	201.1
MW-107-041	02/19/2026	24.2	7.15	15,135	12.00	0.93	21.2	9.69	10,650	120.1
MW-107-076	02/19/2026	24.3	7.35	10,634	18.00	1.31	20.5	6.69	7,569	161.2
MW-15	02/24/2026	187.59	7.65	2,326	5.00	2.79	23.9	1.19	1,500	82.9
MW-20-070	01/13/2026	47.07	7.21	2,825	8.00	6.85	27.0	1.46	1,830	166.0
MW-20-070	02/10/2026	46.46	7.55	4,070	10.00	5.59	27.9	2.14	2,640	170.0
MW-20-070	03/11/2026	45.5	7.44	4,915	21.00	5.58	28.5	2.62	3,190	171.7
MW-20-100	01/13/2026	47.15	6.90	5,096	8.00	0.85	27.5	2.72	3,310	178.9
MW-20-100	02/10/2026	46.39	7.39	4,366	5.00	2.08	27.6	2.31	2,830	172.4
MW-20-100	03/11/2026	45.52	7.41	3,890	19.00	2.85	29.5	2.04	2,520	175.9
MW-20-130	01/13/2026	47.64	6.97	10,288	10.00	0.65	27.5	5.78	6,680	170.4
MW-20-130	02/10/2026	46.68	7.31	9,753	4.00	0.36	28.6	5.45	6,330	177.9
MW-20-130	03/11/2026	45.62	7.25	9,823	13.00	0.54	28.9	5.52	6,410	176.1
MW-21	01/14/2026	51.7	6.96	14,381	17.00	1.04	26.2	8.10	9,123	132.9
MW-21	02/11/2026	51.8	7.41	11,695	29.00	2.92	27.5	6.63	7,590	146.8
MW-21	03/11/2026	51.54	7.47	11,383	30.00	0.29	26.4	6.46	7,390	135.3
MW-22	02/17/2026	6.36	6.49	18,622	15.00	0.41	19.4	12.55	13,480	170.9
MW-26	01/15/2026	49.1	6.99	8,882	10.00	5.72	24.5	4.96	5,780	115.4
MW-26	02/11/2026	48.64	7.05	8,353	11.00	1.03	24.2	4.65	5,430	116.9
MW-26	03/11/2026	48.19	6.96	8,518	16.00	1.33	25.9	4.75	5,513	130.9
MW-27-020	01/27/2026	8.5	7.14	1,189	12.00	0.27	18.8	0.59	770	169.3
MW-27-060	01/27/2026	9.34	7.11	3,778	2.00	0.18	20.0	2.01	2,460	143.3
MW-27-085	01/27/2026	9.15	7.13	13,285	11.00	0.10	19.9	7.69	8,640	161.4
MW-28-025	01/27/2026	14.81	7.53	1,632	7.00	0.73	22.2	0.83	1,060	51.7
MW-28-090	01/27/2026	15.5	7.61	8,478	9.00	0.44	20.9	4.73	5,500	17.3
MW-29	01/27/2026	32.72	7.39	21,935	9.00	0.65	23.2	13.27	14,330	-19.9
MW-30-030R	02/19/2026	13.63	7.36	3,405	8.00	0.82	20.3	1.99	2,435	172.9
MW-30-050	02/19/2026	13.47	7.14	2,405	7.00	1.23	20.3	1.43	1,722	128.7
MW-31-060	01/13/2026	41.99	6.99	6,988	6.00	0.70	26.5	3.82	4,530	150.7
MW-31-060	02/10/2026	41.29	7.50	7,267	7.00	0.26	26.4	3.99	4,720	142.3
MW-31-060	03/10/2026	40.31	7.46	8,203	7.00	0.42	27.2	4.54	5,330	161.2
MW-31-135	01/12/2026	42.72	7.37	11,393	13.00	0.84	26.4	6.48	7,410	167.2
MW-31-135	02/10/2026	41.91	7.64	10,614	5.00	2.42	27.1	5.99	6,910	160.8
MW-31-135	03/10/2026	40.92	7.58	13,421	9.00	0.20	27.7	7.71	8,730	171.6
MW-32-020	02/19/2026	8.66	6.84	22,154	7.00	0.45	20.2	14.81	15,820	131.6
MW-32-035	02/19/2026	8.5	6.68	11,007	10.00	0.53	21.4	6.75	7,643	162.9
MW-33-040	02/16/2026	33.67	7.83	10,803	9.00	1.32	24.6	6.11	7,030	38.2
MW-33-090	02/16/2026	33.71	7.45	8,641	5.00	0.61	25.2	4.82	5,623	28.7
MW-33-150	02/16/2026	34.45	7.55	15,631	4.00	0.83	26.1	9.11	10,160	22.1
MW-33-210	02/16/2026	33.66	7.65	17,349	9.00	0.61	26.4	10.19	11,260	-8.2
MW-34-055	01/27/2026	8.73	7.19	1,428	1.00	0.13	20.3	0.72	920	172.4
MW-34-080	01/27/2026	8.94	7.11	9,690	4.00	0.17	20.1	5.47	6,300	161.5
MW-34-100	01/13/2026	8.97	7.37	12,021	13.00	1.12	16.8	8.27	9,253	167.2
MW-34-100	01/27/2026	8.92	7.50	13,522	3.00	0.27	19.3	7.83	8,790	125.9
MW-34-100	03/12/2026	6.23	7.38	11,878	2.00	0.19	20.8	6.80	7,720	181.0
MW-35-060	02/19/2026	28.55	7.52	7,225	18.00	1.13	21.2	4.32	5,045	160.9
MW-35-135	02/19/2026	28	7.56	10,226	10.00	1.92	19.3	6.59	7,499	167.1
MW-36-020	02/12/2026	16.06	7.50	2,659	6.00	0.28	22.6	1.38	1,730	149.4
MW-36-040	02/12/2026	16.25	7.53	1,297	10.00	0.14	22.4	0.65	840	144.6
MW-36-050	02/12/2026	16.34	7.29	1,618	10.00	0.14	22.1	0.82	1,050	168.9
MW-36-070	02/12/2026	15.86	7.40	2,633	2.00	0.16	21.6	1.37	1,710	172.4
MW-36-090	02/12/2026	16.41	7.33	7,362	9.00	0.24	21.8	4.07	4,780	176.3
MW-36-100	01/13/2026	17.55	6.83	9,544	15.00	0.70	19.2	6.05	6,911	120.9
MW-36-100	02/12/2026	16.54	7.28	8,598	7.00	0.17	22.3	4.80	5,580	171.0
MW-36-100	03/10/2026	15.18	7.15	9,550	12.00	0.71	28.8	4.97	5,783	157.2
MW-38D	02/24/2026	72.8	11.43	17,145	17.00	0.92	23.7	10.32	11,410	137.9

Table 3.3
First Quarter 2026 Water Quality Field Parameters
First Quarter 2026 Well Performance Report
Pacific Gas and Electric Company, Topock Compressor Station, Needles, California

Well ID	Sample Date	Depth to Water (ft bTOC)	pH	Specific Conductance (µS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature (deg C)	Salinity (ppt)	Total Dissolved Solids (mg/L)	ORP (mV)
MW-38S	02/24/2026	71.25	7.89	2,515	10.00	5.04	24.6	1.33	1,655	157.9
MW-39-040	02/10/2026	14.75	7.55	1,238	16.00	0.55	20.7	0.67	878	145.4
MW-39-050	02/10/2026	15.57	6.97	2,627	16.00	0.65	20.0	1.51	1,881	159.9
MW-39-060	02/10/2026	14.49	6.94	2,701	15.00	1.10	19.5	1.59	1,969	185.4
MW-39-070	01/13/2026	16	6.92	4,962	17.00	0.63	21.0	2.89	3,495	117.9
MW-39-070	02/10/2026	14.87	6.86	5,159	9.00	0.74	20.3	3.06	3,665	163.9
MW-39-070	03/10/2026	13.78	6.69	5,194	9.00	0.72	21.3	3.03	3,630	175.7
MW-39-080	01/13/2026	15.68	7.02	6,343	9.00	0.52	21.3	3.75	4,450	129.1
MW-39-080	02/10/2026	14.7	6.85	7,361	17.00	0.83	19.5	4.63	5,363	157.8
MW-39-080	03/10/2026	13.76	6.64	7,595	13.00	0.64	20.8	4.64	5,383	124.9
MW-39-100	01/13/2026	15.85	6.93	16,595	15.00	0.55	20.4	10.74	11,790	153.4
MW-39-100	02/10/2026	14.82	6.97	11,803	13.00	1.01	19.4	7.61	8,542	151.1
MW-39-100	03/10/2026	13.26	6.69	14,865	16.00	0.92	20.2	9.59	10,650	130.1
MW-42-030	02/18/2026	10.56	7.47	1,629	12.00	0.71	19.9	0.95	1,175	121.5
MW-42-055	02/18/2026	10.56	7.33	2,602	15.00	0.94	17.9	1.56	1,893	160.4
MW-42-065	02/18/2026	10.11	6.91	10,263	13.00	0.71	19.3	6.63	7,525	162.3
MW-43-025	01/13/2026	10.6	6.92	2,273	9.00	3.18	23.0	1.16	1,470	131.9
MW-43-025	02/18/2026	9.2	7.02	2,472	17.00	1.43	17.2	1.50	1,864	147.7
MW-43-075	02/18/2026	9.48	7.21	12,403	18.00	1.14	17.2	8.50	9,492	137.9
MW-43-090	02/18/2026	9.64	7.36	16,154	12.00	0.95	16.6	11.51	12,530	162.2
MW-44-070	02/11/2026	18.34	7.34	5,322	3.00	0.10	22.2	2.87	3,450	153.4
MW-44-115	01/13/2026	19.97	7.44	13,365	17.00	1.81	18.8	8.90	9,899	183.2
MW-44-115	02/11/2026	18.74	7.64	14,598	7.00	0.14	22.8	8.49	9,490	181.5
MW-44-115	03/12/2026	17.6	7.55	13,146	7.00	0.21	23.4	7.57	8,540	174.4
MW-44-125	01/13/2026	19.88	7.54	14,733	9.00	0.82	20.0	9.59	10,630	158.4
MW-44-125	02/11/2026	18.65	7.71	15,337	2.00	0.12	22.8	8.95	9,970	179.3
MW-44-125	03/12/2026	17.35	7.50	13,778	9.00	0.16	24.3	7.96	8,960	148.8
MW-45-095A	01/27/2026	16.2	7.09	8,720	7.00	0.17	21.3	4.87	5,670	179.5
MW-46-175	01/13/2026	30.36	6.97	18,308	8.00	1.05	21.3	10.86	11,900	165.1
MW-46-175	02/11/2026	29.22	7.90	17,868	10.00	0.70	23.5	10.56	11,610	178.3
MW-46-175	03/12/2026	28.36	7.89	17,921	12.00	3.21	23.6	10.59	11,650	166.6
MW-46-205	02/17/2026	29.54	8.11	21,192	4.00	1.41	23.4	12.73	13,760	58.9
MW-47-055	02/12/2026	30.56	7.39	4,121	10.00	4.52	23.3	2.27	2,771	130.9
MW-47-115	02/12/2026	30.99	6.88	13,135	13.00	0.95	21.4	8.14	9,121	171.3
MW-49-135	01/27/2026	31.81	7.81	14,151	14.00	1.31	23.9	8.19	9,190	40.2
MW-49-275	01/27/2026	32.22	8.09	23,093	3.00	0.73	23.5	13.96	15,010	37.5
MW-49-365	01/27/2026	33.83	7.82	36,047	4.00	0.64	22.5	22.76	23,410	32.7
MW-50-095	02/23/2026	43	7.19	5,223	18.00	1.05	24.7	2.81	3,426	171.9
MW-51	01/15/2026	48.4	6.53	4,062	17.00	0.52	24.4	2.18	2,681	172.1
MW-51	02/11/2026	48.1	6.99	8,754	18.00	1.01	24.6	4.89	5,705	175.8
MW-51	03/11/2026	47.4	6.89	8,685	13.00	1.11	26.6	4.77	5,583	135.9
MW-52D	02/17/2026	8.26	6.35	18,302	18.00	0.54	19.6	12.32	13,350	131.9
MW-52M	02/17/2026	11.42	6.99	15,345	17.00	0.64	18.2	10.49	11,460	140.9
MW-52S	02/17/2026	11.83	6.72	11,978	8.00	0.52	20.4	7.45	8,423	175.3
MW-53D	02/17/2026	19.84	6.45	10,388	10.00	0.96	12.5	7.89	8,819	173.7
MW-53M	02/17/2026	15.66	6.49	12,645	18.00	0.86	15.3	9.27	10,260	164.4
MW-53S	02/17/2026	15.66	6.76	1,785	16.00	1.62	14.3	1.19	1,455	182.2
MW-54-085	02/25/2026	12.28	7.35	5,513	14.00	3.32	25.0	2.75	3,181	152.1
MW-54-140	02/25/2026	12.42	7.29	13,963	10.00	0.72	25.2	8.09	9,075	176.1
MW-54-195	02/25/2026	13	7.63	19,354	18.00	2.01	26.0	11.27	12,310	142.2
MW-60-125	01/29/2026	101.51	7.21	6,892	47.00	1.73	25.8	3.79	4,490	179.6
MW-65-160	02/24/2026	142.75	7.30	4,079	9.00	1.46	26.5	2.13	2,610	61.3
MW-65-225	02/24/2026	142.64	7.52	13,112	8.00	1.52	26.9	7.37	8,360	70.6
MW-67-185	02/24/2026	172.06	7.65	5,350	9.00	1.44	27.8	2.87	3,470	81.2
MW-68-180	01/29/2026	167.62	7.20	4,047	15.00	4.73	27.1	2.12	2,610	168.5
MW-69-195	02/24/2026	177.1	7.53	3,143	46.00	1.44	26.7	1.63	2,030	56.7
MW-70BR-225	01/28/2026	80.41	7.96	12,289	5.00	1.01	26.4	7.01	7,970	79.3
MW-71-035	01/14/2026	29.71	7.03	8,686	16.00	4.45	26.2	4.94	5,462	168.4
MW-71-035	02/11/2026	29.99	7.28	7,917	32.00	2.45	28.4	4.35	5,140	183.0
MW-71-035	03/10/2026	29.72	7.32	8,870	32.00	0.34	27.9	4.92	5,750	173.9
MW-75-033	02/16/2026	19.64	7.53	3,416	5.00	0.43	26.6	1.78	2,210	180.6
MW-75-117	02/16/2026	19.7	7.58	12,111	1.00	0.16	26.7	6.91	7,870	180.7
MW-75-202	02/16/2026	19.93	7.55	16,072	2.00	0.32	25.6	9.38	10,440	176.5
MW-75-267	02/16/2026	19.61	7.46	21,195	3.00	0.28	25.4	12.69	13,780	175.6
MW-75-337	02/16/2026	22.1	7.81	27,603	4.00	0.17	25.5	16.95	17,940	163.0
MW-76-039	01/14/2026	28.46	6.96	9,107	7.00	0.94	23.8	5.20	6,052	132.0
MW-76-039	02/09/2026	27.83	7.23	7,686	15.00	0.73	31.3	4.21	4,990	179.1
MW-76-039	03/11/2026	26.65	6.89	8,525	13.00	1.03	24.3	4.85	5,621	177.2
MW-76-156	01/14/2026	28.63	6.91	9,141	15.00	0.89	23.7	5.20	6,045	171.9
MW-76-156	02/09/2026	27.9	6.91	9,652	12.00	0.94	28.2	5.04	5,885	171.1

Table 3.3
First Quarter 2026 Water Quality Field Parameters
First Quarter 2026 Well Performance Report
Pacific Gas and Electric Company, Topock Compressor Station, Needles, California

Well ID	Sample Date	Depth to Water (ft bTOC)	pH	Specific Conductance (µS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature (deg C)	Salinity (ppt)	Total Dissolved Solids (mg/L)	ORP (mV)
MW-76-156	03/11/2026	27.71	6.85	8,639	14.00	1.84	22.7	5.05	5,876	150.8
MW-76-181	01/14/2026	28.66	7.02	9,032	19.00	0.85	22.1	5.38	6,193	157.1
MW-76-181	02/09/2026	27.86	7.03	9,659	9.00	1.03	27.1	5.22	6,045	168.7
MW-76-181	03/11/2026	27.93	7.08	8,205	16.00	2.03	21.3	4.99	5,752	130.7
MW-76-218	01/14/2026	28.55	7.04	8,666	9.00	1.25	20.2	5.38	6,201	182.9
MW-76-218	02/09/2026	27.82	7.32	10,434	11.00	0.81	30.1	5.33	6,194	127.1
MW-76-218	03/11/2026	27.22	7.06	7,842	17.00	1.55	19.5	4.92	5,683	149.9
MW-77-046	02/12/2026	25.58	7.20	9,434	13.00	1.02	23.2	5.45	6,322	174.5
MW-77-102	02/12/2026	25.6	6.89	9,443	18.00	0.85	24.5	5.39	6,246	172.1
MW-77-158	02/12/2026	25.56	6.97	8,895	17.00	1.31	24.3	5.06	5,881	161.5
MW-77-187	01/14/2026	26.02	7.53	8,451	17.00	1.82	20.1	5.24	6,045	167.1
MW-77-187	02/12/2026	25.31	7.52	9,687	15.00	1.35	25.2	5.45	6,293	163.9
MW-77-187	03/11/2026	24.19	7.91	8,161	11.00	0.42	26.3	4.52	5,300	164.2
MW-78-070	01/15/2026	48.7	6.95	8,994	8.00	1.47	24.2	5.12	5,945	135.9
MW-78-070	02/11/2026	48.2	6.89	8,903	16.00	1.53	24.5	4.98	5,812	182.1
MW-78-070	03/12/2026	47.25	6.95	8,825	16.00	1.13	25.2	4.95	5,721	170.2
MW-78-142	01/15/2026	49.03	6.97	9,075	13.00	2.45	23.0	5.32	6,141	168.4
MW-78-142	02/11/2026	48.25	6.94	9,282	12.00	0.82	23.7	5.34	6,188	162.5
MW-78-142	03/12/2026	47.4	7.03	9,211	18.00	0.83	24.3	5.22	6,052	121.5
MW-79-058	01/15/2026	48.15	6.83	9,139	14.00	3.52	24.2	5.15	5,993	150.4
MW-79-058	02/11/2026	47.8	6.84	8,553	19.00	0.92	25.4	4.74	5,543	154.5
MW-79-058	03/12/2026	47.28	6.88	8,903	9.00	1.01	25.3	4.92	5,741	121.9
MW-79-102	01/15/2026	48.05	6.68	4,353	17.00	0.48	24.0	2.76	3,064	148.4
MW-79-102	02/11/2026	47.61	7.02	9,043	13.00	1.28	24.7	5.12	5,912	135.1
MW-79-102	03/12/2026	46.9	6.89	7,775	14.00	1.22	25.1	4.31	5,045	141.6
MW-80-057	01/15/2026	50.42	6.83	9,163	10.00	6.30	25.0	5.32	6,182	131.1
MW-80-057	02/11/2026	50.3	6.74	9,012	10.00	0.95	25.1	5.02	5,846	131.8
MW-80-057	03/12/2026	49.8	6.74	9,781	14.00	0.94	26.8	5.29	6,125	130.9
MW-80-082	01/15/2026	50.22	6.77	9,165	18.00	1.00	24.1	5.19	5,990	127.1
MW-80-082	02/11/2026	50.2	6.93	8,674	17.00	1.22	25.4	4.85	5,654	122.5
MW-80-082	03/12/2026	49.64	6.83	8,852	10.00	1.37	27.3	4.75	5,562	134.6
MW-81-043	01/12/2026	27.65	6.99	8,942	6.00	0.39	24.3	5.01	6,850	160.1
MW-81-043	02/10/2026	24.64	6.92	9,072	7.00	0.71	24.6	5.15	5,941	132.2
MW-81-043	03/10/2026	23.6	6.74	7,983	19.00	0.85	22.8	4.63	5,414	152.9
MW-81-098	01/12/2026	25.31	6.88	8,859	13.00	3.43	23.1	5.15	5,982	115.4
MW-81-098	02/10/2026	24.9	6.85	9,202	17.00	3.62	24.2	5.21	6,062	123.9
MW-81-098	03/10/2026	23.68	6.74	8,062	10.00	0.95	21.9	4.73	5,584	171.3
MW-82-046	02/16/2026	31.85	7.06	12,873	10.00	0.75	21.8	7.92	8,918	152.1
MW-82-112	02/16/2026	30.8	6.90	8,532	19.00	0.81	22.3	5.13	5,942	171.1
MW-82-168	02/16/2026	30.2	6.85	7,994	16.00	1.14	22.3	4.73	5,514	179.9
MW-82-198	02/16/2026	30.14	7.42	9,701	15.00	0.95	22.1	5.78	6,644	131.9
MW-86-030	01/28/2026	14.39	7.31	1,400	22.00	0.18	22.0	0.70	910	108.8
MW-86-066	01/28/2026	15.8	7.07	8,902	9.00	0.10	21.7	4.99	5,790	164.1
MW-86-120	02/24/2026	14.85	7.10	12,488	11.00	0.76	25.3	7.03	7,975	149.7
MW-86-140	01/28/2026	16.15	7.21	17,220	3.00	0.11	21.8	10.16	11,200	177.0
MW-88-107	02/24/2026	92.64	7.07	2,901	13.00	4.35	25.2	1.52	1,873	171.3
MW-90-031	02/18/2026	6.01	6.72	13,555	15.00	0.74	19.2	9.54	10,590	177.8
MW-91-045	02/25/2026	11.6	7.60	2,148	8.00	0.13	26.1	1.10	1,390	172.4
MW-91-120	02/25/2026	11.55	7.44	9,395	4.00	0.17	26.0	5.26	6,110	179.0
MW-91-170	02/25/2026	11.38	7.80	11,250	7.00	0.09	26.0	6.38	7,310	172.5
MW-91-320	02/25/2026	13.49	7.45	27,793	5.00	0.14	25.7	17.08	18,080	135.8
MW-92-037	02/25/2026	7.81	8.04	1,710	4.00	0.35	27.3	0.86	1,110	-17.7
MW-92-072	02/25/2026	7.78	8.08	2,269	4.00	0.32	27.3	1.15	1,460	8.9
MW-92-102	02/25/2026	8.21	8.06	3,240	7.00	0.62	27.2	1.68	2,090	32.6
MW-92-122	02/25/2026	8.48	7.64	11,350	4.00	0.60	26.9	6.43	7,370	42.2
MW-93-050	01/12/2026	34.15	7.00	3,938	28.00	2.78	26.7	2.05	2,530	162.0
MW-96-045	02/19/2026	30.26	7.75	11,880	9.00	0.51	23.9	6.80	7,730	36.2
MW-96-217	02/19/2026	31.02	7.56	19,672	5.00	0.71	23.6	11.70	12,770	-53.9
MW-97-042	02/23/2026	28.43	7.36	3,663	13.00	2.61	24.3	1.99	2,392	152.1
MW-97-202	02/23/2026	29.64	7.03	20,685	13.00	0.62	28.1	11.59	12,750	135.4
PT5D	01/12/2026	22.31	7.78	11,443	16.00	0.65	21.2	7.04	7,970	157.1
PT5D	02/09/2026	20.81	7.69	9,888	12.00	0.19	24.6	5.56	6,430	186.4
PT5D	03/09/2026	19.3	7.49	11,162	13.00	0.62	25.8	6.25	7,195	161.1
PT5M	02/09/2026	20.62	7.30	6,845	6.00	0.19	23.9	3.75	4,440	187.1
PT5S	02/09/2026	20.6	7.55	1,248	7.00	0.07	23.9	0.62	810	143.0
PT6D	01/12/2026	23.81	7.46	9,005	7.00	1.15	20.7	5.51	5,351	161.9
PT6D	02/09/2026	23.1	7.35	8,590	8.00	0.13	24.6	4.79	5,590	182.3
PT6D	03/09/2026	21.65	7.34	8,982	11.00	0.82	23.8	5.13	5,985	143.4
TW-02D	01/13/2026	41.15	7.24	8,302	7.00	0.80	27.7	4.60	5,400	166.7
TW-02D	02/10/2026	40.24	7.50	8,115	4.00	0.09	28.3	4.48	5,270	173.5

Table 3.3
First Quarter 2026 Water Quality Field Parameters
First Quarter 2026 Well Performance Report
Pacific Gas and Electric Company, Topock Compressor Station, Needles, California

Well ID	Sample Date	Depth to Water (ft bTOC)	pH	Specific Conductance (μ S/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature (deg C)	Salinity (ppt)	Total Dissolved Solids (mg/L)	ORP (mV)
TW-02D	03/10/2026	39.36	7.39	8,112	6.00	0.08	28.3	4.48	5,270	176.9
TW-02S	01/13/2026	41.12	7.14	8,029	5.00	0.85	27.6	4.43	5,220	160.7
TW-02S	02/10/2026	40.5	7.47	7,787	2.00	0.37	28.3	4.28	5,060	172.3
TW-02S	03/10/2026	39.51	7.36	7,670	3.00	0.35	28.4	4.22	4,980	173.0
TW-03D	01/13/2026	41.06	7.29	8,495	4.00	0.75	27.8	4.71	5,520	160.6
TW-03D	02/10/2026	39.99	7.49	8,291	3.00	0.09	28.5	4.58	5,390	164.8
TW-03D	03/10/2026	39.07	7.40	8,323	2.00	0.06	28.6	4.60	5,410	176.0
TW-04	02/11/2026	31.59	7.52	18,922	8.00	0.79	27.4	11.21	12,310	181.4

Note:
^a An error likely occurred, either with the field instrument or through human error. Dissolved oxygen results appeared anomalous.

- Acronyms and Abbreviations:**
- = result not reported
 - μ S/cm = microsiemen per centimeter
 - deg C = degree Celsius
 - ft bTOC = feet below the top of casing
 - ID = identification
 - mg/L = milligram per liter
 - mV = millivolt
 - nm = parameter was not measured
 - NTU = nephelometric turbidity unit
 - ORP = oxidation–reduction potential
 - ppt = part per thousand

Table 4.1
Monitoring Well Inspection Results
First Quarter 2026 Well Performance Report
Pacific Gas and Electric Company, Topock Compressor Station, Needles, California

Location	Date	Well Inspection Completed?	Is the Well Labeled Properly?	Is the Well in Good Condition?	Description of Deficiencies (if noted)	Well Inspection Comments
Marina-1	02-19-2026	Yes	Yes	Good	--	--
MTS-1	02-17-2026	Yes	Yes	Good	--	--
MTS-2	02-17-2026	Yes	Yes	Good	--	--
MW-09	02-24-2026	Yes	Yes	Good	--	--
MW-10	01-26-2026	Yes	Yes	Good	--	--
MW-107-041	02-19-2026	Yes	Yes	Good	--	--
MW-107-076	02-19-2026	Yes	Yes	Good	--	--
MW-15	02-24-2026	Yes	Yes	Good	--	--
MW-20-070	01-13-2026	Yes	Yes	Good	--	--
MW-20-070	02-10-2026	Yes	Yes	Good	--	--
MW-20-070	03-11-2026	Yes	Yes	Good	--	--
MW-20-100	01-13-2026	Yes	Yes	Good	--	--
MW-20-100	02-10-2026	Yes	Yes	Good	--	--
MW-20-100	03-11-2026	Yes	Yes	Good	--	--
MW-20-130	01-13-2026	Yes	Yes	Good	--	--
MW-20-130	02-10-2026	Yes	Yes	Good	--	--
MW-20-130	03-11-2026	Yes	Yes	Good	--	--
MW-21	01-14-2026	Yes	Yes	Good	--	--
MW-21	02-11-2026	Yes	Yes	Good	--	--
MW-21	03-11-2026	Yes	Yes	Good	--	--
MW-22	02-17-2026	Yes	Yes	Good	--	--
MW-26	01-15-2026	Yes	Yes	Good	--	--
MW-26	02-11-2026	Yes	Yes	Good	--	--
MW-26	03-11-2026	Yes	Yes	Good	--	--
MW-27-020	01-27-2026	Yes	Yes	Good	--	--
MW-27-060	01-27-2026	Yes	Yes	Good	--	--
MW-27-085	01-27-2026	Yes	Yes	Good	--	--
MW-28-025	01-27-2026	Yes	Yes	Good	--	--
MW-28-090	01-27-2026	Yes	Yes	Good	--	--
MW-29	01-27-2026	Yes	Yes	Good	--	--
MW-30-030R	02-19-2026	Yes	Yes	Good	--	--
MW-30-050	02-19-2026	Yes	Yes	Good	--	--
MW-31-060	01-13-2026	Yes	Yes	Good	--	--
MW-31-060	02-10-2026	Yes	Yes	Good	--	--
MW-31-060	03-10-2026	Yes	Yes	Good	--	--
MW-31-135	01-12-2026	Yes	Yes	Good	--	--
MW-31-135	02-10-2026	Yes	Yes	Good	--	--
MW-31-135	03-10-2026	Yes	Yes	Good	--	--
MW-32-020	02-19-2026	Yes	Yes	Good	--	--
MW-32-035	02-19-2026	Yes	Yes	Good	--	--
MW-33-040	02-16-2026	Yes	Yes	Good	--	--
MW-33-090	02-16-2026	Yes	Yes	Good	--	--
MW-33-150	02-16-2026	Yes	Yes	Good	--	--
MW-33-210	02-16-2026	Yes	Yes	Good	--	--
MW-34-055	01-27-2026	Yes	Yes	Good	--	--
MW-34-080	01-27-2026	Yes	Yes	Good	--	--
MW-34-100	01-13-2026	Yes	Yes	Good	--	--
MW-34-100	01-27-2026	Yes	Yes	Good	--	--
MW-34-100	03-12-2026	Yes	Yes	Good	--	--
MW-35-060	02-19-2026	Yes	Yes	Good	--	--
MW-35-135	02-19-2026	Yes	Yes	Good	--	--
MW-36-020	02-12-2026	Yes	Yes	Good	--	--
MW-36-040	02-12-2026	Yes	Yes	Good	--	--
MW-36-050	02-12-2026	Yes	Yes	Good	--	--
MW-36-070	02-12-2026	Yes	Yes	Good	--	--
MW-36-090	02-12-2026	Yes	Yes	Good	--	--
MW-36-100	01-13-2026	Yes	Yes	Good	--	--
MW-36-100	02-12-2026	Yes	Yes	Good	--	--
MW-36-100	03-10-2026	Yes	Yes	Good	--	--
MW-38D	02-24-2026	Yes	Yes	Good	--	--
MW-38S	02-24-2026	Yes	Yes	Good	--	--
MW-39-040	02-10-2026	Yes	Yes	Good	--	--
MW-39-050	02-10-2026	Yes	Yes	Good	--	--
MW-39-060	02-10-2026	Yes	Yes	Good	--	--
MW-39-070	01-13-2026	Yes	Yes	Good	--	--
MW-39-070	02-10-2026	Yes	Yes	Good	--	--
MW-39-070	03-10-2026	Yes	Yes	Good	--	--
MW-39-080	01-13-2026	Yes	Yes	Good	--	--
MW-39-080	02-10-2026	Yes	Yes	Good	--	--
MW-39-080	03-10-2026	Yes	Yes	Good	--	--
MW-39-100	01-13-2026	Yes	Yes	Good	--	--
MW-39-100	02-10-2026	Yes	Yes	Good	--	--
MW-39-100	03-10-2026	Yes	Yes	Good	--	--
MW-42-030	02-18-2026	Yes	Yes	Good	--	--

Table 4.1
Monitoring Well Inspection Results
First Quarter 2026 Well Performance Report
Pacific Gas and Electric Company, Topock Compressor Station, Needles, California

Location	Date	Well Inspection Completed?	Is the Well Labeled Properly?	Is the Well in Good Condition?	Description of Deficiencies (if noted)	Well Inspection Comments
MW-42-055	02-18-2026	Yes	Yes	Good	--	--
MW-42-065	02-18-2026	Yes	Yes	Good	--	--
MW-43-025	01-13-2026	Yes	Yes	Good	--	--
MW-43-025	02-18-2026	Yes	Yes	Good	--	--
MW-43-075	02-18-2026	Yes	Yes	Good	--	--
MW-43-090	02-18-2026	Yes	Yes	Good	--	--
MW-44-070	02-11-2026	Yes	Yes	Good	--	--
MW-44-115	01-13-2026	Yes	Yes	Good	--	--
MW-44-115	02-11-2026	Yes	Yes	Good	--	--
MW-44-115	03-12-2026	Yes	Yes	Good	--	--
MW-44-125	01-13-2026	Yes	Yes	Good	--	--
MW-44-125	02-11-2026	Yes	Yes	Good	--	--
MW-44-125	03-12-2026	Yes	Yes	Good	--	--
MW-45-095a	01-27-2026	Yes	Yes	Good	--	--
MW-46-175	01-13-2026	Yes	Yes	Good	--	--
MW-46-175	02-11-2026	Yes	Yes	Good	--	--
MW-46-175	03-12-2026	Yes	Yes	Good	--	--
MW-46-205	02-17-2026	Yes	Yes	Good	--	--
MW-47-055	02-12-2026	Yes	Yes	Good	--	--
MW-47-115	02-12-2026	Yes	Yes	Good	--	--
MW-49-135	01-27-2026	Yes	Yes	Good	--	--
MW-49-275	01-27-2026	Yes	Yes	Good	--	--
MW-49-365	01-27-2026	Yes	Yes	Good	--	--
MW-50-095	02-23-2026	Yes	Yes	Good	--	--
MW-51	01-15-2026	Yes	Yes	Good	--	--
MW-51	02-11-2026	Yes	Yes	Good	--	--
MW-51	03-11-2026	Yes	Yes	Good	--	--
MW-52D	02-17-2026	Yes	Yes	Good	--	--
MW-52M	02-17-2026	Yes	Yes	Good	--	--
MW-52S	02-17-2026	Yes	Yes	Good	--	--
MW-53D	02-17-2026	Yes	Yes	Good	--	--
MW-53M	02-17-2026	Yes	Yes	Good	--	--
MW-53S	02-17-2026	Yes	Yes	Good	--	--
MW-54-085	02-25-2026	Yes	Yes	Good	--	--
MW-54-140	02-25-2026	Yes	Yes	Good	--	--
MW-54-195	02-25-2026	Yes	Yes	Good	--	--
MW-60-125	01-29-2026	Yes	Yes	Good	--	--
MW-65-160	02-24-2026	Yes	Yes	Good	--	--
MW-65-225	02-24-2026	Yes	Yes	Good	--	--
MW-67-185	02-24-2026	Yes	Yes	Good	--	--
MW-68-180	01-29-2026	Yes	Yes	Good	--	--
MW-69-195	02-24-2026	Yes	Yes	Good	--	--
MW-70BR-225	01-28-2026	Yes	Yes	Good	--	--
MW-71-035	01-14-2026	Yes	Yes	Good	--	--
MW-71-035	02-11-2026	Yes	Yes	Good	--	--
MW-71-035	03-10-2026	Yes	Yes	Good	--	--
MW-75-033	02-16-2026	Yes	Yes	Good	--	--
MW-75-117	02-16-2026	Yes	Yes	Good	--	--
MW-75-202	02-16-2026	Yes	Yes	Good	--	--
MW-75-267	02-16-2026	Yes	Yes	Good	--	--
MW-75-337	02-16-2026	Yes	Yes	Good	--	--
MW-76-039	01-14-2026	Yes	Yes	Good	--	--
MW-76-039	02-09-2026	Yes	Yes	Good	--	--
MW-76-039	03-11-2026	Yes	Yes	Good	--	--
MW-76-156	01-14-2026	Yes	Yes	Good	--	--
MW-76-156	02-09-2026	Yes	Yes	Good	--	--
MW-76-156	03-11-2026	Yes	Yes	Good	--	--
MW-76-181	01-14-2026	Yes	Yes	Good	--	--
MW-76-181	02-09-2026	Yes	Yes	Good	--	--
MW-76-181	03-11-2026	Yes	Yes	Good	--	--
MW-76-218	01-14-2026	Yes	Yes	Good	--	--
MW-76-218	02-09-2026	Yes	Yes	Good	--	--
MW-76-218	03-11-2026	Yes	Yes	Good	--	--
MW-77-046	02-12-2026	Yes	Yes	Good	--	--
MW-77-102	02-12-2026	Yes	Yes	Good	--	--
MW-77-158	02-12-2026	Yes	Yes	Good	--	--
MW-77-187	01-14-2026	Yes	Yes	Good	--	--
MW-77-187	02-12-2026	Yes	Yes	Good	--	--
MW-77-187	03-11-2026	Yes	Yes	Good	--	--
MW-78-070	01-15-2026	Yes	Yes	Good	--	--
MW-78-070	02-11-2026	Yes	Yes	Good	--	--
MW-78-070	03-12-2026	Yes	Yes	Good	--	--
MW-78-142	01-15-2026	Yes	Yes	Good	--	--
MW-78-142	02-11-2026	Yes	Yes	Good	--	--

Table 4.1
Monitoring Well Inspection Results
First Quarter 2026 Well Performance Report
Pacific Gas and Electric Company, Topock Compressor Station, Needles, California

Location	Date	Well Inspection Completed?	Is the Well Labeled Properly?	Is the Well in Good Condition?	Description of Deficiencies (if noted)	Well Inspection Comments
MW-78-142	03-12-2026	Yes	Yes	Good	--	--
MW-79-058	01-15-2026	Yes	Yes	Good	--	--
MW-79-058	02-11-2026	Yes	Yes	Good	--	--
MW-79-058	03-12-2026	Yes	Yes	Good	--	--
MW-79-102	01-15-2026	Yes	Yes	Good	--	--
MW-79-102	02-11-2026	Yes	Yes	Good	--	--
MW-79-102	03-12-2026	Yes	Yes	Good	--	--
MW-80-057	01-15-2026	Yes	Yes	Good	--	--
MW-80-057	02-11-2026	Yes	Yes	Good	--	--
MW-80-057	03-12-2026	Yes	Yes	Good	--	--
MW-80-082	01-15-2026	Yes	Yes	Good	--	--
MW-80-082	02-11-2026	Yes	Yes	Good	--	--
MW-80-082	03-12-2026	Yes	Yes	Good	--	--
MW-81-043	01-12-2026	Yes	Yes	Good	--	--
MW-81-043	02-10-2026	Yes	Yes	Good	--	--
MW-81-043	03-10-2026	Yes	Yes	Good	--	--
MW-81-098	01-12-2026	Yes	Yes	Good	--	--
MW-81-098	02-10-2026	Yes	Yes	Good	--	--
MW-81-098	03-10-2026	Yes	Yes	Good	--	--
MW-82-046	02-16-2026	Yes	Yes	Good	--	--
MW-82-112	02-16-2026	Yes	Yes	Good	--	--
MW-82-168	02-16-2026	Yes	Yes	Good	--	--
MW-82-198	02-16-2026	Yes	Yes	Good	--	--
MW-86-030	01-28-2026	Yes	Yes	Good	--	--
MW-86-066	01-28-2026	Yes	Yes	Good	--	--
MW-86-120	02-24-2026	Yes	Yes	Good	--	--
MW-86-140	01-28-2026	Yes	Yes	Good	--	--
MW-88-107	02-24-2026	Yes	Yes	Good	--	--
MW-90-031	02-18-2026	Yes	Yes	Poor	Well box needs to be replaced, standpipe recommended	--
MW-91-045	02-25-2026	Yes	Yes	Good	--	--
MW-91-120	02-25-2026	Yes	Yes	Good	--	--
MW-91-170	02-25-2026	Yes	Yes	Good	--	--
MW-91-320	02-25-2026	Yes	Yes	Good	--	--
MW-92-037	02-25-2026	Yes	Yes	Good	--	--
MW-92-072	02-25-2026	Yes	Yes	Good	--	--
MW-92-102	02-25-2026	Yes	Yes	Good	--	--
MW-92-122	02-25-2026	Yes	Yes	Good	--	--
MW-93-050	01-12-2026	Yes	Yes	Good	--	--
MW-94-030	02-17-2026	Yes	Yes	Good	--	--
MW-94-100	02-17-2026	Yes	Yes	Good	--	--
MW-94-175	02-17-2026	Yes	Yes	Good	--	--
MW-96-045	02-19-2026	Yes	Yes	Good	--	--
MW-96-217	02-19-2026	Yes	Yes	Good	--	--
MW-97-042	02-23-2026	Yes	Yes	Good	--	--
MW-97-202	02-23-2026	Yes	Yes	Good	--	--
PGE-09N	02-19-2026	Yes	Yes	Good	--	--
PGE-09S	02-19-2026	Yes	Yes	Good	--	--
PT5D	01-12-2026	Yes	Yes	Good	--	--
PT5D	02-09-2026	Yes	Yes	Good	--	--
PT5D	03-09-2026	Yes	Yes	Good	--	--
PT5M	02-09-2026	Yes	Yes	Good	--	--
PT5S	02-09-2026	Yes	Yes	Good	--	--
PT6D	01-12-2026	Yes	Yes	Good	--	--
PT6D	02-09-2026	Yes	Yes	Good	--	--
PT6D	03-09-2026	Yes	Yes	Good	--	--
TW-02D	01-13-2026	Yes	Yes	Good	--	--
TW-02D	02-10-2026	Yes	Yes	Good	--	--
TW-02D	03-10-2026	Yes	Yes	Good	--	--
TW-02S	01-13-2026	Yes	Yes	Good	--	--
TW-02S	02-10-2026	Yes	Yes	Good	--	--
TW-02S	03-10-2026	Yes	Yes	Good	--	--
TW-03D	01-13-2026	Yes	Yes	Good	--	--
TW-03D	02-10-2026	Yes	Yes	Good	--	--
TW-03D	03-10-2026	Yes	Yes	Good	--	--
TW-04	02-11-2026	Yes	Yes	Good	--	--

Abbreviation:
-- = no comment

Table 4.2
Monitoring Well Water Levels and Specific Capacities
First Quarter 2026 Well Performance Report
Pacific Gas and Electric Company, Topock Compressor Station, Needles, California

Well ID	Well Screen Lithology	Sample Date	Constructed Well Depth (feet bTOC)	Measured Well Depth (feet bTOC)	Difference in Constructed and Measured Well Depth (feet)	Screen Start Depth (feet bTOC)	Screen End Depth (feet bTOC)	Pre-Purge Depth to Water (feet bTOC)	Post-Purge Depth to Water (feet bTOC)	Drawdown During Purging (feet)	Purging Rate (mL/min)	Specific Capacity (gpm/foot)	Measured Depth Covering Greater than 20% of screen?	Flagged for Evaluation	Planned for Resurvey	Planned for Redevelopment	Notes	Date of Last Redevelopment
MW-09	Alluvial	02/24/2026	89.82	86.62	3.20	77.82	87.82	82.77	82.83	0.06	300	1.32	No	No	No	No	N/A	9/25/2024
MW-10	Alluvial	01/26/2026	95.73	97.99	-2.26	75.23	95.23	77.23	77.25	0.02	300	3.96	No	No	No	No	N/A	N/A
MW-107-041	Fluvial	02/19/2026	N/A	42.82	N/A	N/A	N/A	24.20	24.26	0.06	300	1.32	N/A	No	No	No	Newly installed monitoring well. Constructed well and screen start/end depths will be added once the well survey is complete.	N/A
MW-107-076	Alluvial	02/19/2026	N/A	77.94	N/A	N/A	N/A	24.30	24.35	0.05	300	1.59	N/A	No	No	No	Newly installed monitoring well. Constructed well and screen start/end depths will be added once the well survey is complete.	N/A
MW-15	Alluvial	02/24/2026	204.90	200.50	4.40	182.40	202.40	187.59	187.63	0.04	500	3.30	No	No	No	No	N/A	N/A
MW-20-070	Alluvial	01/13/2026	69.69	68.39	1.30	49.69	69.69	47.07	47.10	0.03	500	4.40	No	No	No	No	N/A	N/A
MW-20-070	Alluvial	02/10/2026	69.69	68.33	1.36	49.69	69.69	46.46	46.47	0.01	500	13.21	No	No	No	No	N/A	N/A
MW-20-070	Alluvial	03/11/2026	69.69	68.38	1.31	49.69	69.69	45.50	45.52	0.02	500	6.60	No	No	No	No	N/A	N/A
MW-20-100	Alluvial	01/13/2026	100.49	98.07	2.42	88.59	98.59	47.15	47.19	0.04	500	3.30	No	No	No	No	N/A	N/A
MW-20-100	Alluvial	02/10/2026	100.49	98.09	2.40	88.59	98.59	46.39	46.42	0.03	500	4.40	No	No	No	No	N/A	N/A
MW-20-100	Alluvial	03/11/2026	100.49	98.07	2.42	88.59	98.59	45.52	45.55	0.03	500	4.40	No	No	No	No	N/A	N/A
MW-20-130	Alluvial	01/13/2026	131.49	129.51	1.98	120.15	130.15	47.64	47.67	0.03	500	4.40	No	No	No	No	N/A	N/A
MW-20-130	Alluvial	02/10/2026	131.49	129.51	1.98	120.15	130.15	46.68	46.69	0.01	500	13.21	No	No	No	No	N/A	N/A
MW-20-130	Alluvial	03/11/2026	131.49	129.57	1.92	120.15	130.15	45.62	45.64	0.02	500	6.60	No	No	No	No	N/A	N/A
MW-21	Alluvial	01/14/2026	58.95	58.30	0.65	38.45	58.45	51.70	51.76	0.06	300	1.32	No	No	No	No	N/A	N/A
MW-21	Alluvial	02/11/2026	58.95	58.12	0.83	38.45	58.45	51.80	52.14	0.34	100	0.08	No	No	No	No	N/A	N/A
MW-21	Alluvial	03/11/2026	58.95	58.31	0.64	38.45	58.45	51.54	52.05	0.51	100	0.05	No	No	No	No	N/A	N/A
MW-22	Fluvial	02/17/2026	12.05	10.92	1.13	5.15	10.15	6.36	6.43	0.07	300	1.13	No	No	No	No	N/A	N/A
MW-26	Alluvial	01/15/2026	70.82	69.34	1.48	50.82	70.82	49.10	49.16	0.06	300	1.32	No	No	No	No	N/A	N/A
MW-26	Alluvial	02/11/2026	70.82	NM ^a	N/A	50.82	70.82	48.64	48.69	0.05	300	1.59	No	No	No	No	N/A	N/A
MW-26	Alluvial	03/11/2026	70.82	NM ^a	N/A	50.82	70.82	48.19	48.93	0.74	300	0.11	No	No	No	No	N/A	N/A
MW-27-020	Fluvial	01/27/2026	18.92	13.94	4.98	8.92	18.92	8.50	8.52	0.02	500	6.60	Yes	Yes	No	No	Siltation. Not recommended for redevelopment based on low turbidity measurement during sampling and well being screened in fluvial sediments.	N/A
MW-27-060	Fluvial	01/27/2026	60.52	58.81	1.71	50.32	60.32	9.34	9.36	0.02	500	6.60	No	No	No	No	N/A	N/A
MW-27-085	Fluvial	01/27/2026	100.05	100.38	-0.33	80.05	90.05	9.15	9.17	0.02	500	6.60	No	No	No	No	N/A	N/A
MW-28-025	Fluvial	01/27/2026	25.10	23.83	1.27	15.10	25.10	14.81	14.85	0.04	500	3.30	No	No	No	No	N/A	5/16/2023
MW-28-090	Fluvial	01/27/2026	101.46	98.03	3.43	73.10	93.10	15.50	15.57	0.07	500	1.89	No	No	No	No	N/A	N/A
MW-29	Fluvial	01/27/2026	43.73	40.73	3.00	31.71	41.71	32.72	32.76	0.04	500	3.30	No	No	No	No	N/A	N/A
MW-30-030R	Fluvial	02/19/2026	32.43	32.11	0.32	12.03	32.03	13.63	13.68	0.05	300	1.59	No	No	No	No	N/A	N/A
MW-30-050	Fluvial	02/19/2026	55.01	50.01	5.00	42.41	52.41	13.47	13.50	0.03	300	2.64	Yes	Yes	No	No	Siltation. Not recommended for redevelopment based on low turbidity measurement during sampling and well being screened in fluvial sediments.	N/A
MW-31-060	Alluvial	01/13/2026	65.71	63.69	2.02	43.21	63.21	41.99	42.02	0.03	500	4.40	No	No	No	No	N/A	N/A
MW-31-060	Alluvial	02/10/2026	65.71	61.43	4.28	43.21	63.21	41.29	41.31	0.02	500	6.60	No	No	No	No	N/A	N/A
MW-31-060	Alluvial	03/10/2026	65.71	61.40	4.31	43.21	63.21	40.31	40.31	0.00	500	N/A	No	No	No	No	N/A	N/A
MW-31-135	Alluvial	01/12/2026	133.16	131.03	2.13	112.86	132.86	42.72	42.75	0.03	500	4.40	No	No	No	No	N/A	N/A
MW-31-135	Alluvial	02/10/2026	133.16	131.01	2.15	112.86	132.86	41.91	41.93	0.02	500	6.60	No	No	No	No	N/A	N/A
MW-31-135	Alluvial	03/10/2026	133.16	130.00	3.16	112.86	132.86	40.92	40.95	0.03	500	4.40	No	No	No	No	N/A	N/A
MW-32-020	Fluvial	02/19/2026	22.41	19.22	3.19	12.41	22.41	8.66	8.71	0.05	300	1.59	Yes	Yes	No	No	Siltation. Not recommended for redevelopment based on low turbidity measurement during sampling and well being screened in fluvial sediments.	N/A
MW-32-035	Fluvial	02/19/2026	39.58	37.15	2.43	29.93	37.43	8.50	8.56	0.06	300	1.32	No	No	No	No	N/A	N/A
MW-33-040	Fluvial	02/16/2026	44.64	40.98	3.66	31.80	41.80	33.67	33.69	0.02	500	6.60	No	No	No	No	N/A	N/A
MW-33-090	Alluvial	02/16/2026	91.83	88.12	3.71	71.83	91.11	33.71	33.75	0.04	500	3.30	No	No	No	No	N/A	N/A
MW-33-150	Alluvial	02/16/2026	158.15	155.03	3.12	134.77	154.77	34.45	34.49	0.04	500	3.30	No	No	No	No	N/A	N/A
MW-33-210	Alluvial	02/16/2026	225.64	222.13	3.51	192.64	212.64	33.66	33.69	0.03	500	4.40	No	No	No	No	N/A	N/A
MW-34-055	Fluvial	01/27/2026	58.81	56.20	2.61	47.21	57.21	8.73	8.75	0.02	500	6.60	No	No	No	No	N/A	N/A
MW-34-080	Fluvial	01/27/2026	86.56	84.09	2.47	75.26	85.26	8.94	8.96	0.02	500	6.60	No	No	No	No	N/A	N/A
MW-34-100	Fluvial	01/27/2026	116.44	115.82	0.62	91.44	101.44	8.92	8.94	0.02	500	6.60	No	No	No	No	N/A	N/A
MW-34-100	Fluvial	03/12/2026	116.44	115.72	0.72	91.44	101.44	6.23	6.24	0.01	500	13.21	No	No	No	No	N/A	N/A
MW-35-060	Alluvial	02/19/2026	61.63	57.80	3.83	41.33	61.33	28.55	28.59	0.04	300	1.98	No	No	No	No	N/A	5/9/2023
MW-35-135	Alluvial	02/19/2026	158.98	154.40	4.58	116.28	136.28	28.00	28.04	0.04	300	1.98	No	No	No	No	N/A	N/A
MW-36-020	Fluvial	02/12/2026	23.08	22.29	0.79	12.78	22.78	16.06	16.10	0.04	250	1.65	No	No	No	No	N/A	N/A
MW-36-040	Fluvial	02/12/2026	43.15	41.76	1.39	32.85	42.85	16.25	16.30	0.05	500	2.64	No	No	No	No	N/A	N/A
MW-36-050	Fluvial	02/12/2026	55.79	53.08	2.71	48.79	53.79	16.34	16.36	0.02	500	6.60	No	No	No	No	N/A	N/A
MW-36-070	Fluvial	02/12/2026	73.02	72.33	0.69	62.72	72.72	15.86	15.90	0.04	500	3.30	No	No	No	No	N/A	N/A
MW-36-090	Fluvial	02/12/2026	93.34	92.08	1.26	83.04	93.04	16.41	16.44	0.03	500	4.40	No	No	No	No	N/A	N/A
MW-36-100	Fluvial	01/13/2026	111.36	116.61	-5.25	91.36	101.36	17.55	17.58	0.03	300	2.64	No	No	No	No	N/A	N/A
MW-36-100	Fluvial	02/12/2026	111.36	109.77	1.59	91.36	101.36	16.54	16.58	0.04	500	3.30	No	No	No	No	N/A	N/A
MW-36-100	Fluvial	03/10/2026	111.36	109.72	1.64	91.36	101.36	15.18	15.25	0.07	300	1.13	No	No	No	No	N/A	N/A
MW-38D	Alluvial	02/24/2026	186.58	184.82	1.76	166.28	186.28	72.80	72.88	0.08	300	0.99	No	Yes	No	Yes	Consecutive elevated pH measurements have been recorded at the well. A downhole camera inspection was completed but did not reveal any conditions that would explain the high pH. Redevelopment of the well will be planned in Second Quarter 2026.	8/19/2022

Table 4.2
Monitoring Well Water Levels and Specific Capacities
First Quarter 2026 Well Performance Report
Pacific Gas and Electric Company, Topock Compressor Station, Needles, California

Well ID	Well Screen Lithology	Sample Date	Constructed Well Depth (feet bTOC)	Measured Well Depth (feet bTOC)	Difference in Constructed and Measured Well Depth (feet)	Screen Start Depth (feet bTOC)	Screen End Depth (feet bTOC)	Pre-Purge Depth to Water (feet bTOC)	Post-Purge Depth to Water (feet bTOC)	Drawdown During Purging (feet)	Purging Rate (mL/min)	Specific Capacity (gpm/foot)	Measured Depth Covering Greater than 20% of screen?	Flagged for Evaluation	Planned for Resurvey	Planned for Redevelopment	Notes	Date of Last Redevelopment
MW-38S	Alluvial	02/24/2026	97.77	97.15	0.62	77.47	97.47	71.25	71.30	0.05	300	1.59	No	No	No	No	N/A	7/25/2022
MW-39-040	Fluvial	02/10/2026	74.51	71.64	2.87	62.82	72.82	14.75	14.79	0.04	300	1.98	No	No	No	No	N/A	5/14/2023
MW-39-050	Fluvial	02/10/2026	57.43	54.39	3.04	47.83	52.83	15.57	15.62	0.05	300	1.59	No	No	No	No	N/A	N/A
MW-39-060	Alluvial	02/10/2026	69.00	58.91	10.09	51.70	61.70	14.49	14.54	0.05	300	1.59	Yes	Yes	No	No	Siltation. Not recommended for redevelopment because low turbidity was measured during sampling, minimal drawdown occurred, and specific capacity indicated good yield. Continue to monitor.	N/A
MW-39-070	Alluvial	01/13/2026	74.51	71.61	2.90	62.82	72.82	16.00	16.06	0.06	300	1.32	No	No	No	No	N/A	N/A
MW-39-070	Alluvial	02/10/2026	74.51	71.64	2.87	62.82	72.82	14.87	14.94	0.07	300	1.13	No	No	No	No	N/A	N/A
MW-39-070	Alluvial	03/10/2026	74.51	71.66	2.85	62.82	72.82	13.78	13.84	0.06	300	1.32	No	No	No	No	N/A	N/A
MW-39-080	Alluvial	01/13/2026	85.37	82.30	3.07	72.82	82.82	15.68	15.73	0.05	300	1.59	No	No	No	No	N/A	N/A
MW-39-080	Alluvial	02/10/2026	85.37	82.35	3.02	72.82	82.82	14.70	14.76	0.06	300	1.32	No	No	No	No	N/A	N/A
MW-39-080	Alluvial	03/10/2026	85.37	82.31	3.06	72.82	82.82	13.76	13.79	0.03	300	2.64	No	No	No	No	N/A	N/A
MW-39-100	Alluvial	01/13/2026	120.53	116.42	4.11	82.82	102.82	15.85	15.90	0.05	300	1.59	No	No	No	No	N/A	N/A
MW-39-100	Alluvial	02/10/2026	120.53	116.50	4.03	82.82	102.82	14.82	14.28	-0.54	300	-0.15	No	No	No	No	N/A	N/A
MW-39-100	Alluvial	03/10/2026	120.53	116.53	4.00	82.82	102.82	13.26	13.29	0.03	300	2.64	No	No	No	No	N/A	N/A
MW-42-030	Fluvial	02/18/2026	32.55	31.10	1.45	12.25	32.25	10.56	10.60	0.04	300	1.98	No	No	No	No	N/A	N/A
MW-42-055	Fluvial	02/18/2026	55.29	52.59	2.70	44.99	54.99	10.56	10.63	0.07	300	1.13	Yes	Yes	No	No	Siltation. Not recommended for redevelopment based on low turbidity measurement during sampling and well being screened in fluvial sediments.	N/A
MW-42-065	Fluvial	02/18/2026	83.47	83.72	-0.25	58.47	68.47	10.11	10.19	0.08	300	0.99	No	No	No	No	N/A	N/A
MW-43-025	Fluvial	01/13/2026	27.52	26.50	1.02	17.52	27.52	10.60	10.62	0.02	500	6.60	No	No	No	No	N/A	N/A
MW-43-025	Fluvial	02/18/2026	27.52	26.55	0.97	17.52	27.52	9.20	9.24	0.04	300	1.98	No	No	No	No	N/A	N/A
MW-43-075	Fluvial	02/18/2026	77.79	77.54	0.25	67.79	77.79	9.48	9.52	0.04	300	1.98	No	No	No	No	N/A	N/A
MW-43-090	Fluvial	02/18/2026	99.82	102.64	-2.82	82.82	92.82	9.64	9.66	0.02	300	3.96	No	No	No	No	N/A	N/A
MW-44-070	Fluvial	02/11/2026	72.10	72.28	-0.18	62.10	72.10	18.34	18.38	0.04	500	3.30	No	No	No	No	N/A	N/A
MW-44-115	Alluvial	01/13/2026	114.52	114.40	0.12	106.52	114.52	19.97	20.01	0.04	300	1.98	No	No	No	No	N/A	N/A
MW-44-115	Alluvial	02/11/2026	114.52	114.39	0.13	106.52	114.52	18.74	18.77	0.03	500	4.40	No	No	No	No	N/A	N/A
MW-44-115	Alluvial	03/12/2026	114.52	114.40	0.12	106.52	114.52	17.60	17.63	0.03	500	4.40	No	No	No	No	N/A	N/A
MW-44-125	Alluvial	01/13/2026	130.35	128.66	1.69	117.55	126.55	19.88	19.90	0.02	300	3.96	No	No	No	No	N/A	N/A
MW-44-125	Alluvial	02/11/2026	130.35	128.60	1.75	117.55	126.55	18.65	18.68	0.03	500	4.40	No	No	No	No	N/A	N/A
MW-44-125	Alluvial	03/12/2026	130.35	128.63	1.72	117.55	126.55	17.35	17.37	0.02	500	6.60	No	No	No	No	N/A	N/A
MW-45-095a	Fluvial	01/27/2026	98.34	93.90	4.44	84.34	94.34	16.20	16.22	0.02	500	6.60	No	No	No	No	N/A	N/A
MW-46-175	Alluvial	01/13/2026	176.84	176.08	0.76	166.34	176.34	30.36	30.38	0.02	500	6.60	No	No	No	No	N/A	N/A
MW-46-175	Alluvial	02/11/2026	176.84	176.08	0.76	166.34	176.34	29.22	29.24	0.02	500	6.60	No	No	No	No	N/A	N/A
MW-46-175	Alluvial	03/12/2026	176.84	176.09	0.75	166.34	176.34	28.36	28.38	0.02	500	6.60	No	No	No	No	N/A	N/A
MW-46-205	Alluvial	02/17/2026	209.49	218.72	-9.23	199.49	209.49	29.54	29.54	0.00	500	N/A	No	No	No	No	N/A	N/A
MW-47-055	Alluvial	02/12/2026	56.94	56.60	0.34	46.94	56.94	30.56	30.54	-0.02	300	-3.96	No	No	No	No	N/A	N/A
MW-47-115	Alluvial	02/12/2026	116.58	115.52	1.06	106.58	116.58	30.99	31.04	0.05	300	1.59	No	No	No	No	N/A	N/A
MW-49-135	Alluvial	01/27/2026	136.52	136.29	0.23	126.52	136.52	31.81	31.86	0.05	500	2.64	No	No	No	No	N/A	N/A
MW-49-275	Alluvial	01/27/2026	276.45	274.73	1.72	256.45	276.45	32.22	32.29	0.07	500	3.29	No	No	No	No	N/A	N/A
MW-49-365	Alluvial	01/27/2026	368.86	367.35	1.51	347.51	367.51	33.83	33.87	0.04	500	3.30	No	No	No	No	N/A	N/A
MW-50-095	Alluvial	02/23/2026	97.16	96.41	0.75	87.16	97.16	43.00	43.05	0.05	300	1.59	No	No	No	No	N/A	N/A
MW-51	Alluvial	01/15/2026	112.94	99.12	13.82	96.69	111.69	48.40	48.45	0.05	300	1.59	Yes	Yes	No	No	Siltation. Not recommended for redevelopment because low turbidity was measured during sampling, minimal drawdown occurred, and specific capacity indicated good yield. Continue to monitor.	N/A
MW-51	Alluvial	02/11/2026	112.94	NM ^a	N/A	96.69	111.69	48.10	48.15	0.05	300	1.59	No	No	No	No	N/A	N/A
MW-51	Alluvial	03/11/2026	112.94	NM ^a	N/A	96.69	111.69	47.10	47.14	0.04	300	1.98	No	No	No	No	N/A	N/A
MW-54-085	Fluvial	02/25/2026	92.91	86.13	6.78	76.71	86.71	12.28	12.33	0.05	300	1.59	No	No	No	No	N/A	N/A
MW-54-140	Fluvial	02/25/2026	137.59	135.82	1.77	127.59	137.59	12.42	12.46	0.04	300	1.98	No	No	No	No	N/A	N/A
MW-54-195	Fluvial	02/25/2026	195.04	192.04	3.00	185.04	195.04	13.00	13.06	0.06	300	1.32	Yes	Yes	No	No	Siltation. Not recommended for redevelopment based on low turbidity measurement during sampling and well being screened in fluvial sediments.	N/A
MW-60-125	Bedrock	01/29/2026	122.69	121.92	0.77	102.69	122.69	101.51	101.53	0.02	500	6.60	No	Yes	No	No	High turbidity. Continue to monitor for consecutive high turbidity readings.	N/A
MW-65-160	Alluvial	02/24/2026	159.70	160.43	-0.73	149.60	159.60	142.75	142.80	0.05	500	2.64	No	No	No	No	N/A	N/A
MW-65-225	Alluvial	02/24/2026	224.68	225.37	-0.69	214.59	224.59	142.64	142.69	0.05	500	2.64	No	No	No	No	N/A	N/A
MW-67-185	Alluvial	02/24/2026	186.73	186.70	0.03	176.73	186.73	172.06	172.11	0.05	500	2.64	No	No	No	No	N/A	N/A
MW-68-180	Alluvial	01/29/2026	179.68	180.02	-0.34	164.59	179.59	167.62	167.63	0.01	500	13.21	No	No	No	No	N/A	N/A
MW-69-195	Bedrock	02/24/2026	195.27	195.62	-0.35	175.27	195.27	177.10	177.17	0.07	500	1.89	No	Yes	No	No	High turbidity. Continue to monitor for consecutive high turbidity readings.	N/A
MW-70BR-225	Bedrock	01/28/2026	228.89	219.27	9.62	119.61	226.61	80.41	80.44	0.03	500	4.40	No	No	No	No	N/A	5/7/2022
MW-71-035	Alluvial	01/14/2026	35.90	35.68	0.22	25.70	35.70	29.71	29.74	0.03	300	2.64	No	No	No	No	N/A	N/A
MW-71-035	Alluvial	02/11/2026	35.90	35.62	0.28	25.70	35.70	29.99	30.31	0.32	100	0.08	No	Yes	No	No	High turbidity. Continue to monitor for consecutive high turbidity readings.	N/A
MW-71-035	Alluvial	03/10/2026	35.90	35.33	0.57	25.70	35.70	29.72	30.10	0.38	100	0.07	No	Yes	No	No	High turbidity. Continue to monitor for three consecutive high turbidity readings.	N/A
MW-75-033	Alluvial	02/16/2026	35.48	34.80	0.68	18.08	33.08	19.64	19.66	0.02	500	6.60	No	No	No	No	N/A	N/A
MW-75-117	Alluvial	02/16/2026	119.45	118.08	1.37	97.15	117.15	19.79	19.80	0.01	500	13.21	No	No	No	No	N/A	N/A

Table 4.2
Monitoring Well Water Levels and Specific Capacities
First Quarter 2026 Well Performance Report
Pacific Gas and Electric Company, Topock Compressor Station, Needles, California

Well ID	Well Screen Lithology	Sample Date	Constructed Well Depth (feet bTOC)	Measured Well Depth (feet bTOC)	Difference in Constructed and Measured Well Depth (feet)	Screen Start Depth (feet bTOC)	Screen End Depth (feet bTOC)	Pre-Purge Depth to Water (feet bTOC)	Post-Purge Depth to Water (feet bTOC)	Drawdown During Purging (feet)	Purging Rate (mL/min)	Specific Capacity (gpm/foot)	Measured Depth Covering Greater than 20% of screen?	Flagged for Evaluation	Planned for Resurvey	Planned for Redevelopment	Notes	Date of Last Redevelopment
MW-75-202	Alluvial	02/16/2026	204.49	204.31	0.18	182.49	202.49	19.93	19.95	0.02	500	6.60	No	No	No	No	N/A	N/A
MW-75-267	Alluvial	02/16/2026	269.50	268.55	0.95	247.20	267.20	19.61	19.67	0.06	500	2.20	No	No	No	No	N/A	N/A
MW-75-337	Alluvial	02/16/2026	339.79	338.33	1.46	317.49	337.49	22.10	22.12	0.02	500	6.60	No	No	No	No	N/A	N/A
MW-76-039	Alluvial	01/14/2026	39.10	38.69	0.41	23.60	38.60	28.46	28.49	0.03	300	2.64	No	No	No	No	N/A	N/A
MW-76-039	Alluvial	02/09/2026	39.10	38.53	0.57	23.60	38.60	27.83	27.85	0.02	500	6.60	No	No	No	No	N/A	N/A
MW-76-039	Alluvial	03/11/2026	39.10	38.51	0.59	23.60	38.60	26.65	26.68	0.03	300	2.64	No	No	No	No	N/A	N/A
MW-76-156	Alluvial	01/14/2026	158.01	155.58	2.43	135.71	155.71	28.63	28.67	0.04	300	1.98	No	No	No	No	N/A	N/A
MW-76-156	Alluvial	02/09/2026	158.01	155.52	2.49	135.71	155.71	27.90	27.94	0.04	300	1.98	No	No	No	No	N/A	N/A
MW-76-156	Alluvial	03/11/2026	158.01	155.50	2.51	135.71	155.71	27.71	27.76	0.05	300	1.59	No	No	No	No	N/A	N/A
MW-76-181	Alluvial	01/14/2026	183.12	182.70	0.42	170.82	180.82	28.66	28.69	0.03	300	2.64	No	No	No	No	N/A	N/A
MW-76-181	Alluvial	02/09/2026	183.12	182.68	0.44	170.82	180.82	27.86	27.92	0.06	300	1.32	No	No	No	No	N/A	N/A
MW-76-181	Alluvial	03/11/2026	183.12	182.65	0.47	170.82	180.82	27.93	27.97	0.04	300	1.98	No	No	No	No	N/A	N/A
MW-76-218	Alluvial	01/14/2026	220.05	219.69	0.36	197.75	217.75	28.55	28.60	0.05	300	1.59	No	No	No	No	N/A	N/A
MW-76-218	Alluvial	02/09/2026	220.05	219.64	0.41	197.75	217.75	27.82	27.88	0.06	300	1.32	No	No	No	No	N/A	N/A
MW-76-218	Alluvial	03/11/2026	220.05	219.62	0.43	197.75	217.75	27.22	27.27	0.05	300	1.59	No	No	No	No	N/A	N/A
MW-77-046	Alluvial	02/12/2026	48.15	40.02	8.13	25.85	45.85	25.58	25.63	0.05	300	1.59	Yes	Yes	No	No	Siltation. Redevelopment occurred in October 2024. Minimal drawdown occurred during purging. Continue to monitor.	10/16/2024
MW-77-102	Alluvial	02/12/2026	104.21	104.25	-0.04	81.91	101.91	25.60	25.64	0.04	300	1.98	No	No	No	No	N/A	N/A
MW-77-158	Alluvial	02/12/2026	160.14	159.94	0.20	137.64	157.74	25.56	25.61	0.05	300	1.59	No	No	No	No	N/A	N/A
MW-77-187	Alluvial	01/14/2026	189.21	188.99	0.22	166.71	186.81	26.02	26.09	0.07	300	1.13	No	No	No	No	N/A	N/A
MW-77-187	Alluvial	02/12/2026	189.21	188.93	0.28	166.71	186.81	25.31	25.37	0.06	300	2.53	No	No	No	No	N/A	N/A
MW-77-187	Alluvial	03/11/2026	189.21	189.08	0.13	166.71	186.81	24.19	24.22	0.03	500	4.40	No	No	No	No	N/A	N/A
MW-78-070	Alluvial	01/15/2026	71.85	72.15	-0.30	49.55	69.55	48.70	48.76	0.06	300	1.32	No	No	No	No	N/A	N/A
MW-78-070	Alluvial	02/11/2026	71.85	72.18	-0.33	49.55	69.55	48.20	48.26	0.06	300	1.32	No	No	No	No	N/A	N/A
MW-78-070	Alluvial	03/12/2026	71.85	72.52	-0.67	49.55	69.55	47.25	47.25	0.00	300	N/A	No	No	No	No	N/A	N/A
MW-78-142	Alluvial	01/15/2026	141.76	147.15	-5.39	121.46	141.46	49.03	49.09	0.06	300	1.32	No	No	No	No	N/A	N/A
MW-78-142	Alluvial	02/11/2026	141.76	147.11	-5.35	121.46	141.46	48.25	48.29	0.04	300	1.98	No	No	No	No	N/A	N/A
MW-78-142	Alluvial	03/12/2026	141.76	147.09	-5.33	121.46	141.46	47.40	47.43	0.03	300	2.64	No	No	No	No	N/A	N/A
MW-79-058	Alluvial	01/15/2026	60.05	60.14	-0.09	47.55	57.55	48.15	48.20	0.05	300	1.59	No	No	No	No	N/A	N/A
MW-79-058	Alluvial	02/11/2026	60.05	60.16	-0.11	47.55	57.55	47.80	47.84	0.04	300	1.98	No	No	No	No	N/A	N/A
MW-79-058	Alluvial	03/12/2026	60.05	60.16	-0.11	47.55	57.55	47.28	47.34	0.06	300	1.32	No	No	No	No	N/A	N/A
MW-79-102	Alluvial	01/15/2026	104.23	104.09	0.14	91.43	101.43	48.05	48.08	0.03	300	2.64	No	No	No	No	N/A	N/A
MW-79-102	Alluvial	02/11/2026	104.23	104.07	0.16	91.43	101.43	47.61	47.68	0.07	300	1.13	No	No	No	No	N/A	N/A
MW-79-102	Alluvial	03/12/2026	104.23	104.05	0.18	91.43	101.43	46.90	46.95	0.05	300	4.69	No	No	No	No	N/A	N/A
MW-80-057	Alluvial	01/15/2026	59.46	59.39	0.07	46.96	56.96	50.42	50.44	0.02	300	3.96	No	No	No	No	N/A	N/A
MW-80-057	Alluvial	02/11/2026	59.46	59.41	0.05	46.96	56.96	50.30	50.35	0.05	300	1.59	No	No	No	No	N/A	N/A
MW-80-057	Alluvial	03/12/2026	59.46	59.44	0.02	46.96	56.96	49.80	49.86	0.06	300	1.32	No	No	No	No	N/A	N/A
MW-80-082	Alluvial	01/15/2026	84.00	83.66	0.34	66.50	81.50	50.22	50.26	0.04	300	1.98	No	No	No	No	N/A	N/A
MW-80-082	Alluvial	02/11/2026	84.00	83.62	0.38	66.50	81.50	50.20	50.26	0.06	300	1.32	No	No	No	No	N/A	N/A
MW-80-082	Alluvial	03/12/2026	84.00	83.60	0.40	66.50	81.50	49.64	49.69	0.05	300	1.59	No	No	No	No	N/A	N/A
MW-81-043	Alluvial	01/12/2026	44.73	43.10	1.63	22.43	42.43	27.65	27.70	0.05	300	2.75	No	No	No	No	N/A	N/A
MW-81-043	Alluvial	02/10/2026	44.73	43.12	1.61	22.43	42.43	24.64	24.68	0.04	300	1.98	No	No	No	No	N/A	N/A
MW-81-043	Alluvial	03/10/2026	44.73	43.15	1.58	22.43	42.43	23.60	23.66	0.06	300	1.32	No	No	No	No	N/A	N/A
MW-81-098	Alluvial	01/12/2026	99.82	99.17	0.65	77.52	97.52	26.31	26.35	0.04	300	1.98	No	No	No	No	N/A	N/A
MW-81-098	Alluvial	02/10/2026	99.82	99.21	0.61	77.52	97.52	24.90	24.95	0.05	300	1.59	No	No	No	No	N/A	N/A
MW-81-098	Alluvial	03/10/2026	99.82	99.19	0.63	77.52	97.52	23.68	23.74	0.06	300	1.32	No	No	No	No	N/A	N/A
MW-82-046	Alluvial	02/16/2026	48.87	45.95	2.92	26.57	46.57	31.85	31.92	0.07	300	1.13	No	No	No	No	N/A	5/11/2023
MW-82-112	Alluvial	02/16/2026	114.78	114.20	0.58	92.48	112.48	30.80	30.86	0.06	300	1.32	No	No	No	No	N/A	N/A
MW-82-168	Alluvial	02/16/2026	170.34	169.83	0.51	148.04	168.04	30.20	30.28	0.08	300	0.99	No	No	No	No	N/A	N/A
MW-82-198	Alluvial	02/16/2026	200.25	199.46	0.79	177.95	197.95	30.14	30.19	0.05	300	1.59	No	No	No	No	N/A	N/A
MW-86-030	Alluvial	01/28/2026	34.51	31.36	3.15	12.21	32.21	14.39	14.41	0.02	500	6.60	No	No	No	No	N/A	N/A
MW-86-066	Alluvial	01/28/2026	70.40	69.18	1.22	48.10	68.10	15.80	15.82	0.02	500	6.60	No	No	No	No	N/A	N/A
MW-86-120	Alluvial	02/24/2026	124.67	123.35	1.32	102.37	122.37	14.85	14.89	0.04	300	1.98	No	No	No	No	N/A	N/A
MW-86-140	Alluvial	01/28/2026	144.53	143.18	1.35	132.23	142.23	16.15	16.18	0.03	500	4.40	No	No	No	No	N/A	N/A
MW-88-107	Bedrock	02/24/2026	109.06	108.81	0.25	86.76	106.76	92.64	92.67	0.03	300	2.64	No	No	No	No	N/A	N/A
MW-90-031	Alluvial	02/18/2026	33.60	31.30	2.30	21.30	31.30	6.01	6.04	0.03	300	2.64	No	No	No	No	N/A	N/A
MW-91-045	Fluvial	02/25/2026	46.51	46.57	-0.06	24.21	44.21	11.60	11.63	0.03	500	4.40	No	No	No	No	N/A	N/A
MW-91-120	Alluvial	02/25/2026	122.00	121.98	0.02	99.70	119.70	11.55	11.60	0.05	500	2.64	No	No	No	No	N/A	N/A
MW-91-170	Alluvial	02/25/2026	173.14	172.69	0.45	150.74	170.74	11.38	11.38	0.00	500	N/A	No	No	No	No	N/A	N/A
MW-91-320	Alluvial	02/25/2026	323.05	321.58	1.47	300.65	320.65	13.49	13.52	0.03	500	4.40	No	No	No	No	N/A	N/A
MW-92-037	Fluvial	02/25/2026	40.96	40.62	0.34	18.56	38.56	7.81	7.83	0.02	500	6.60	No	No	No	No	N/A	N/A
MW-92-072	Fluvial	02/25/2026	75.93	75.51	0.42	53.53	73.53	7.78	7.82	0.04	500	3.30	No	No	No	No	N/A	N/A
MW-92-102	Fluvial	02/25/2026	106.72	106.14	0.58	84.42	104.42	8.21	8.23	0.02	500	6.60	No	No	No	No	N/A	N/A
MW-92-122	Bedrock	02/25/2026	126.64	126.06	0.58	114.34	124.34	8.48	8.50	0.02	500	6.60	No	No	No	No	N/A	N/A
MW-93-050	Alluvial	01/12/2026	51.90	50.91	0.99	29.60	49.60	34.15	34.18	0.03	500	4.40	No	No	No	No	N/A	N/A
MW-96-045	Alluvial	02/19/2026	47.52	46.82	0.70	25.22	45.22	30.26	30.30	0.04	500	3.30	No	No	No	No	N/A	N/A
MW-96-217	Alluvial	02/19/2026	219.33	218.44	0.89	197.03	217.03	31.02	31.08	0.06	500	2.20	No	No	No	No	N/A	N/A
MW-97-042	Alluvial	02/23/2026	42.63	41.92	0.71	22.13	42.13	28.43	28.48	0.05	300	1.59	No	No	No	No	N/A	N/A
MW-97-202	Alluvial	02/23/2026	201.47	200.91	0.56	190.97	200.97	29.64	29.70	0.06	300	1.32	No	No	No	No	N/A	N/A
PT5D	Alluvial	01/12/2026	107.37	107.30	0.07	97.37	107.37	22.31	22.35	0.04	300	1.98	No	No	No	No	N/A	9/6/2025

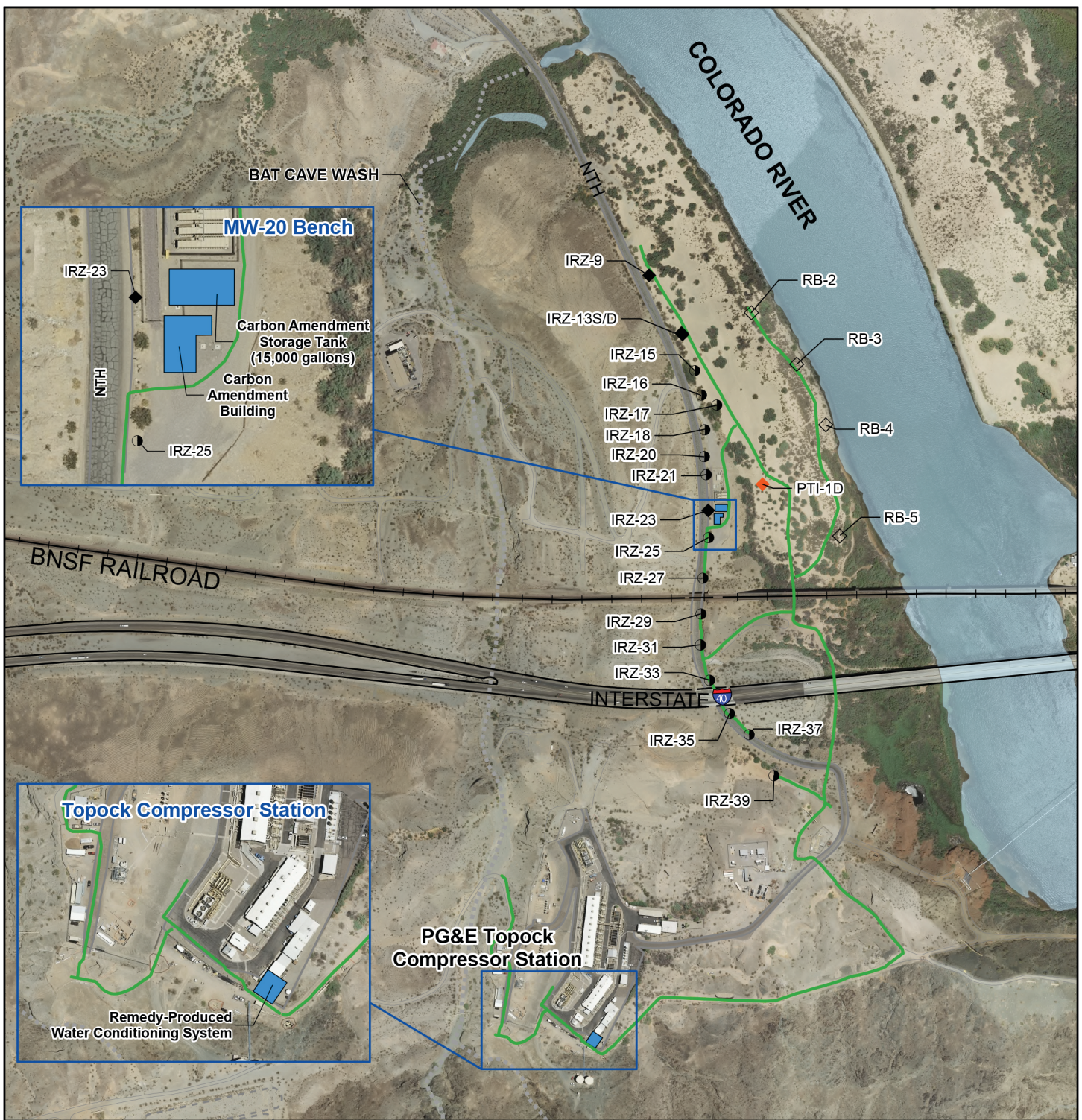
Table 4.2
Monitoring Well Water Levels and Specific Capacities
First Quarter 2026 Well Performance Report
Pacific Gas and Electric Company, Topock Compressor Station, Needles, California

Well ID	Well Screen Lithology	Sample Date	Constructed Well Depth (feet bTOC)	Measured Well Depth (feet bTOC)	Difference in Constructed and Measured Well Depth (feet)	Screen Start Depth (feet bTOC)	Screen End Depth (feet bTOC)	Pre-Purge Depth to Water (feet bTOC)	Post-Purge Depth to Water (feet bTOC)	Drawdown During Purging (feet)	Purging Rate (mL/min)	Specific Capacity (gpm/foot)	Measured Depth Covering Greater than 20% of screen?	Flagged for Evaluation	Planned for Resurvey	Planned for Redevelopment	Notes	Date of Last Redevelopment
PT5D	Alluvial	02/09/2026	107.37	107.26	0.11	97.37	107.37	20.81	20.83	0.02	500	6.60	No	No	No	No	N/A	9/6/2025
PT5D	Alluvial	03/09/2026	107.37	107.29	0.08	97.37	107.37	19.30	19.37	0.07	300	1.13	No	No	No	No	N/A	9/6/2025
PT5M	Fluvial	02/09/2026	N/A	72.82	N/A	62.37	72.37	20.62	20.64	0.02	500	6.60	No	No	No	No	N/A	N/A
PT5S	Fluvial	02/09/2026	N/A	47.88	N/A	37.35	47.35	20.60	20.62	0.02	500	6.60	No	No	No	No	N/A	N/A
PT6D	Alluvial	01/12/2026	106.00	106.64	-0.64	96.00	106.00	23.81	23.84	0.03	300	2.64	No	No	No	No	N/A	N/A
PT6D	Alluvial	02/09/2026	106.00	106.47	-0.47	96.00	106.00	23.10	23.11	0.01	500	13.21	No	No	No	No	N/A	N/A
PT6D	Alluvial	03/09/2026	106.00	106.45	-0.45	96.00	106.00	21.65	21.70	0.05	300	1.59	No	No	No	No	N/A	N/A
TW-02D	Alluvial	01/13/2026	148.96	149.61	-0.65	108.96	143.96	41.15	41.17	0.02	5,300	70.00	No	No	No	No	N/A	N/A
TW-02D	Alluvial	02/10/2026	148.96	149.61	-0.65	108.96	143.96	40.21	40.22	0.01	5,300	140.00	No	No	No	No	N/A	N/A
TW-02D	Alluvial	03/10/2026	148.96	149.61	-0.65	108.96	143.96	39.36	39.38	0.02	5,300	70.00	No	No	No	No	N/A	N/A
TW-02S	Alluvial	01/13/2026	94.39	96.27	-1.88	39.39	89.39	41.12	41.14	0.02	5,300	70.00	No	No	No	No	N/A	N/A
TW-02S	Alluvial	02/10/2026	94.39	96.27	-1.88	39.39	89.39	40.50	40.52	0.02	5,300	70.00	No	No	No	No	N/A	N/A
TW-02S	Alluvial	03/10/2026	94.39	96.27	-1.88	39.39	89.39	39.51	39.53	0.02	5,300	70.00	No	No	No	No	N/A	N/A
TW-03D	Alluvial	01/13/2026	151.22	152.32	-1.10	106.22	151.22	41.06	41.07	0.01	5,300	140.00	No	No	No	No	N/A	N/A
TW-03D	Alluvial	02/10/2026	151.22	152.32	-1.10	106.22	151.22	39.99	40.00	0.01	5,300	140.00	No	No	No	No	N/A	N/A
TW-03D	Alluvial	03/10/2026	151.22	152.32	-1.10	106.22	151.22	39.07	39.08	0.01	5,300	140.00	No	No	No	No	N/A	N/A
TW-04	Alluvial	02/11/2026	256.49	253.96	2.53	211.49	251.49	31.59	31.61	0.02	500	6.60	No	No	No	No	N/A	N/A

Notes:
^a Depth to water mistakenly recorded at these wells in February and March 2026 instead of measured well depth.
1. Slant wells (MW-52D, MW-52M, MW-52S, MW-53D, MW-53M, and MW-53S) are not included in this evaluation.
2. Specific capacity is evaluated for alluvial and fluvial wells. Bedrock wells are not included in this evaluation.

Acronyms and Abbreviations:
ft bTOC = feet below top of casing
gpm/foot = gallon per minute per foot
ID = identification
mL/min = milliliter per minute
N/A = not applicable
NM = not measured

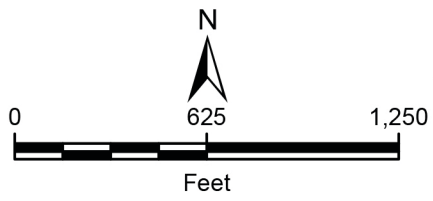
Figures



LEGEND

- ◆ REMEDIATION WELL (EXTRACTION)
- REMEDIATION WELL (INJECTION)
- ◇ REMEDIATION WELL (NOT PLUMBED INTO SYSTEM CURRENTLY)
- ◆ PILOT TEST WELL (EXTRACTION)
- BAT CAVE WASH
- PIPELINE
- REMEDY STRUCTURE

- Notes:**
1. NTH = National Trails Highway
 2. PG&E = Pacific Gas and Electric Company

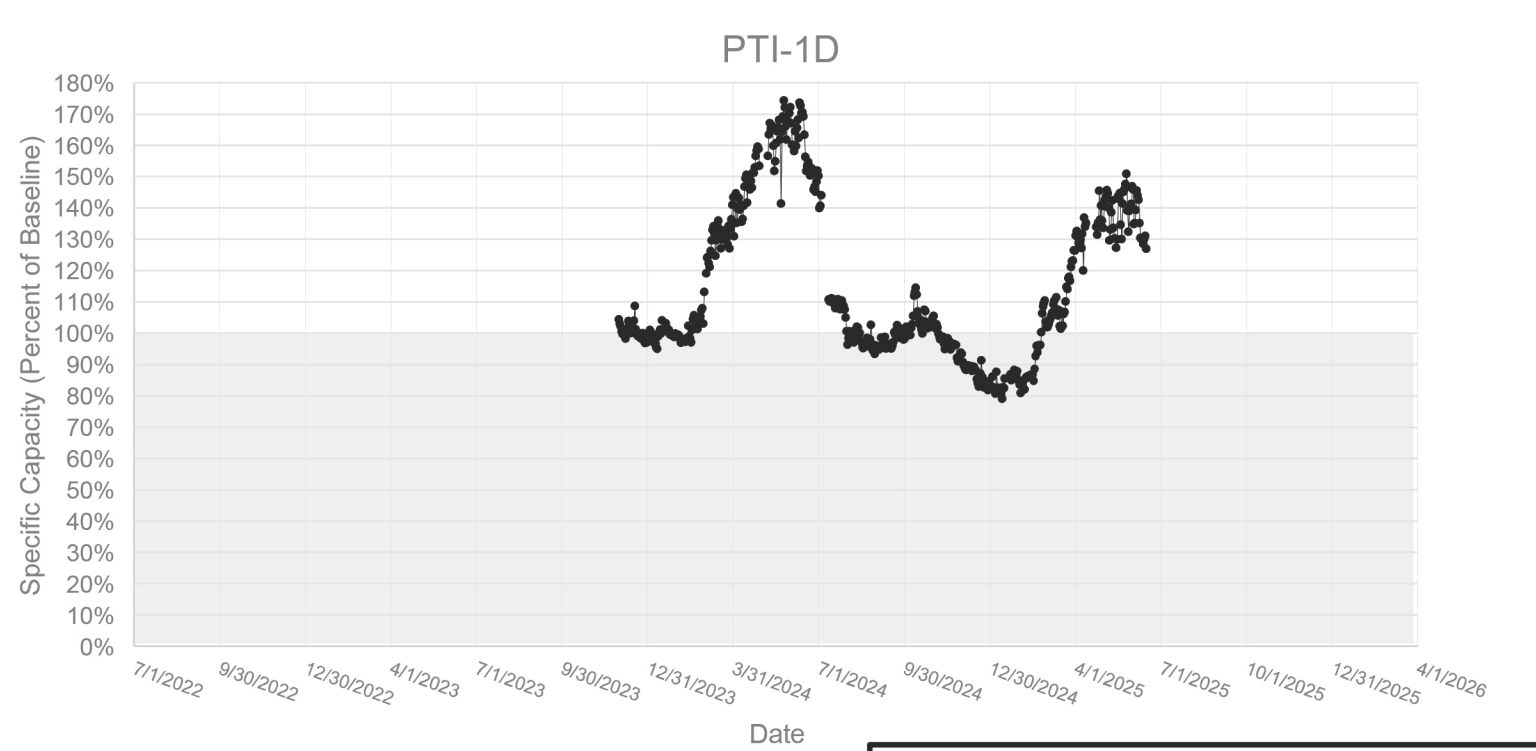
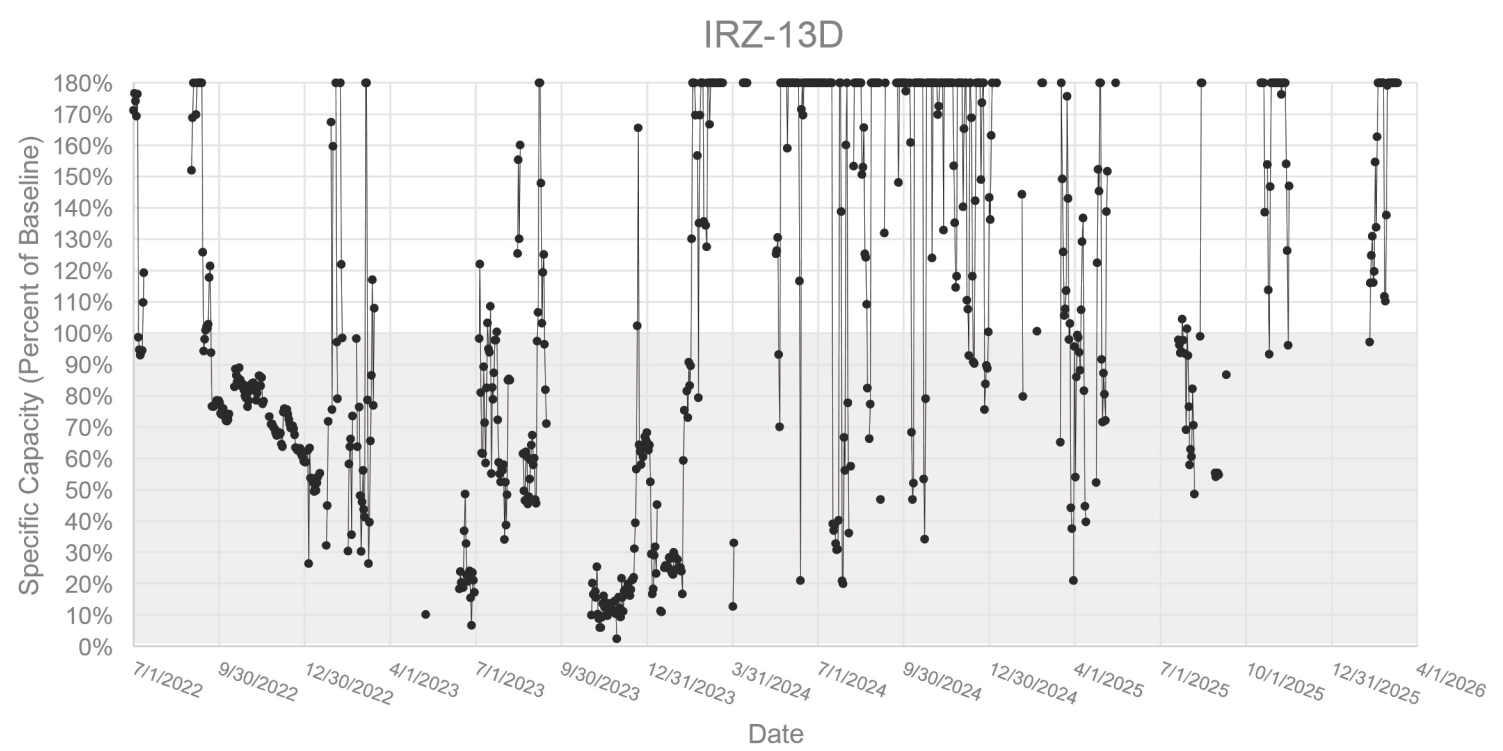
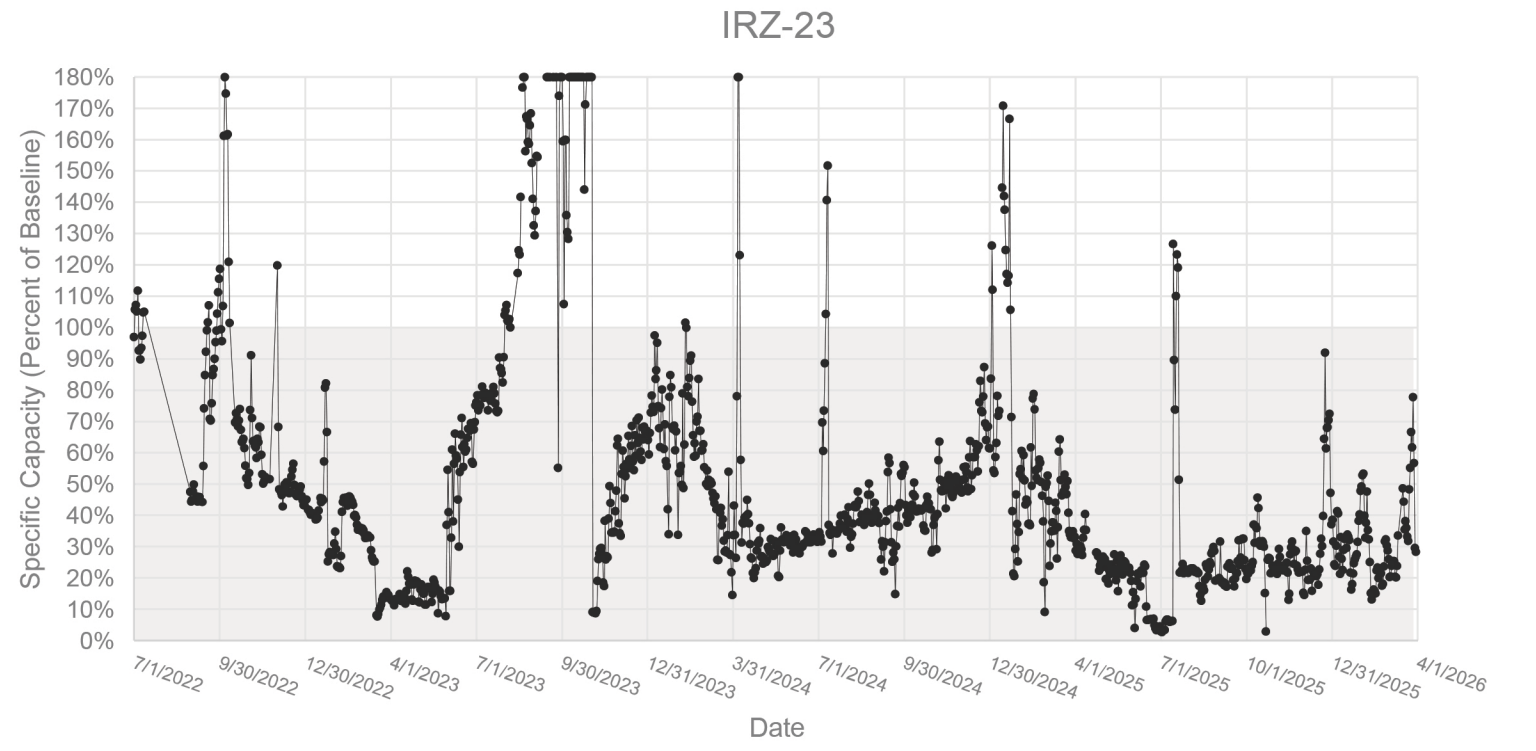
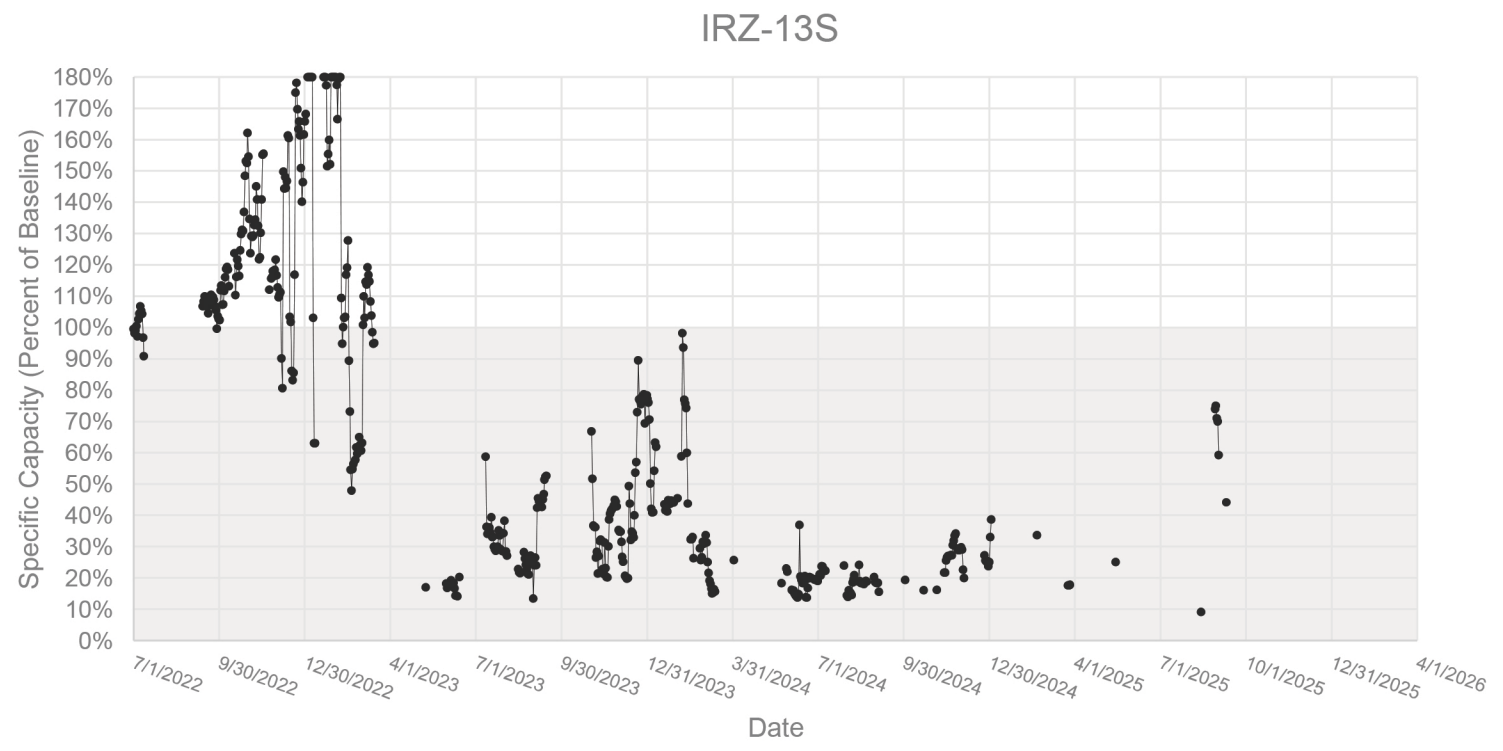


FIRST QUARTER 2026
WELL PERFORMANCE REPORT
PG&E TOPOCK COMPRESSOR STATION
NEEDLES, CALIFORNIA

**PARTIAL REMEDY
SYSTEM LAYOUT**



FIGURE
1.1



Notes:

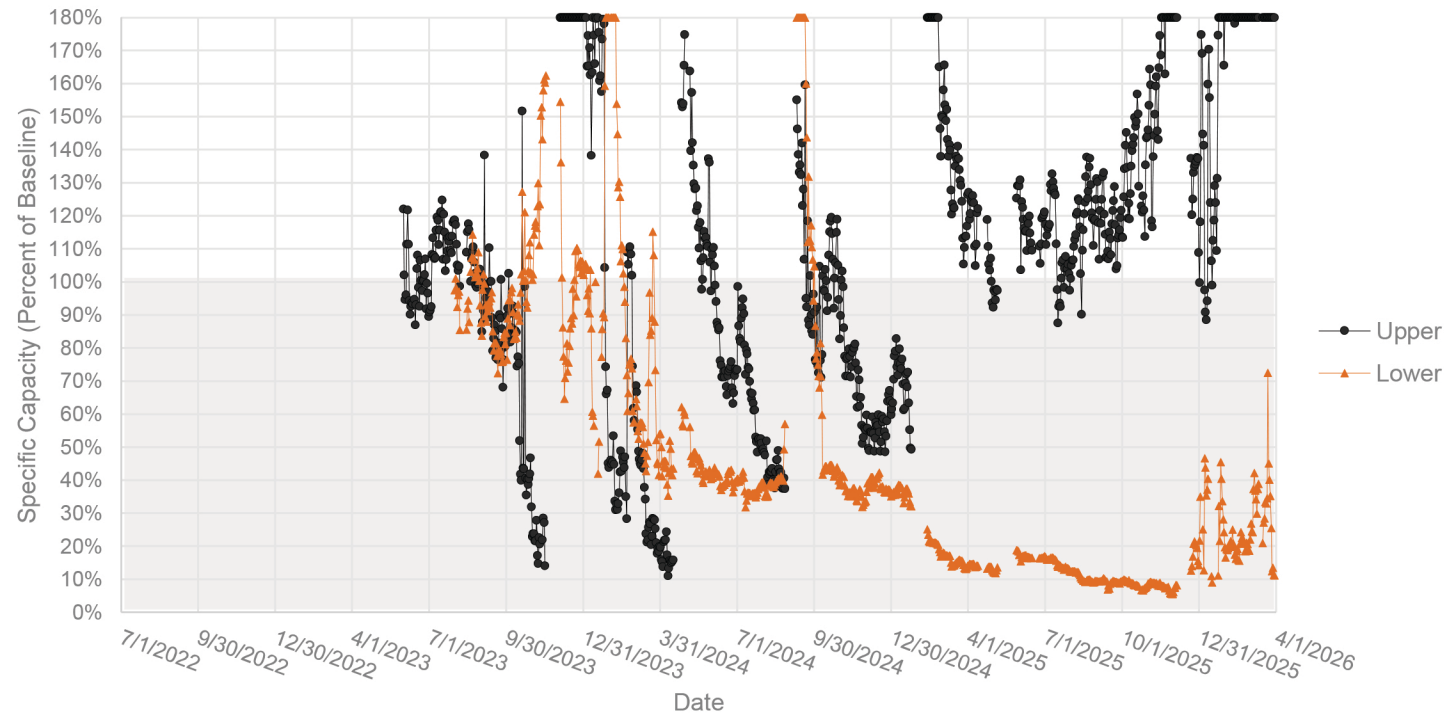
1. % = percent
2. Baseline specific capacity for each screen interval is represented as 100% on the y-axis. Values greater than 100% indicate performance exceeding baseline. Values less than 100% are shaded gray.
3. Baseline specific capacity has not been established for IRZ-9 due to limited operation. Therefore, a graph of IRZ-9 is not included.
4. Specific capacities greater than or equal to 180% are shown as 180% to indicate well was operational at a high specific capacity.
5. PTI-1D began operation in November 2023. A baseline specific capacity was established for this well in December 2023. The graph excludes data collected prior to the baseline specific capacity being established.
6. Displayed notes pertain exclusively to data from the current quarter.

FIRST QUARTER 2026
WELL PERFORMANCE REPORT
PG&E TOPOCK COMPRESSOR STATION
NEEDLES, CALIFORNIA

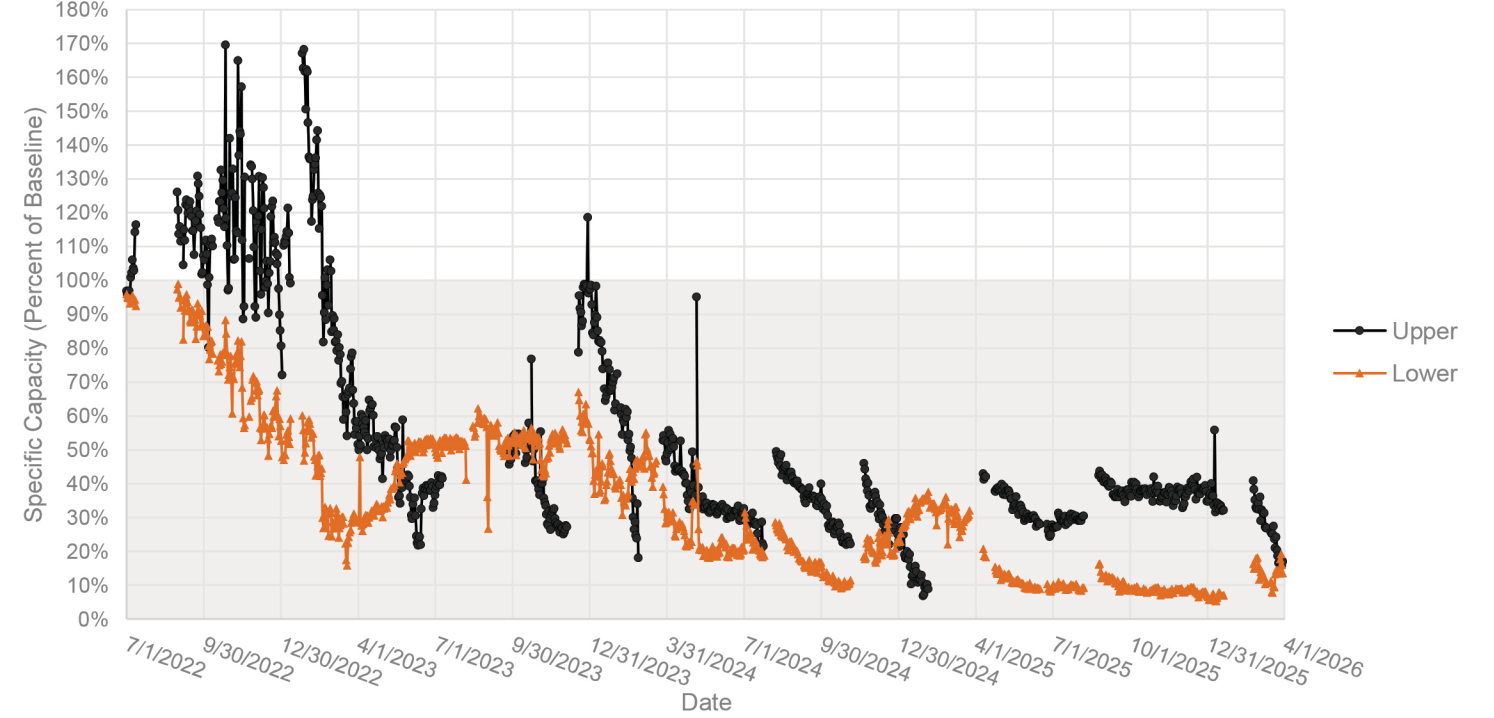
**EXTRACTION WELL SPECIFIC
CAPACITY TRENDS**

ARCADIS

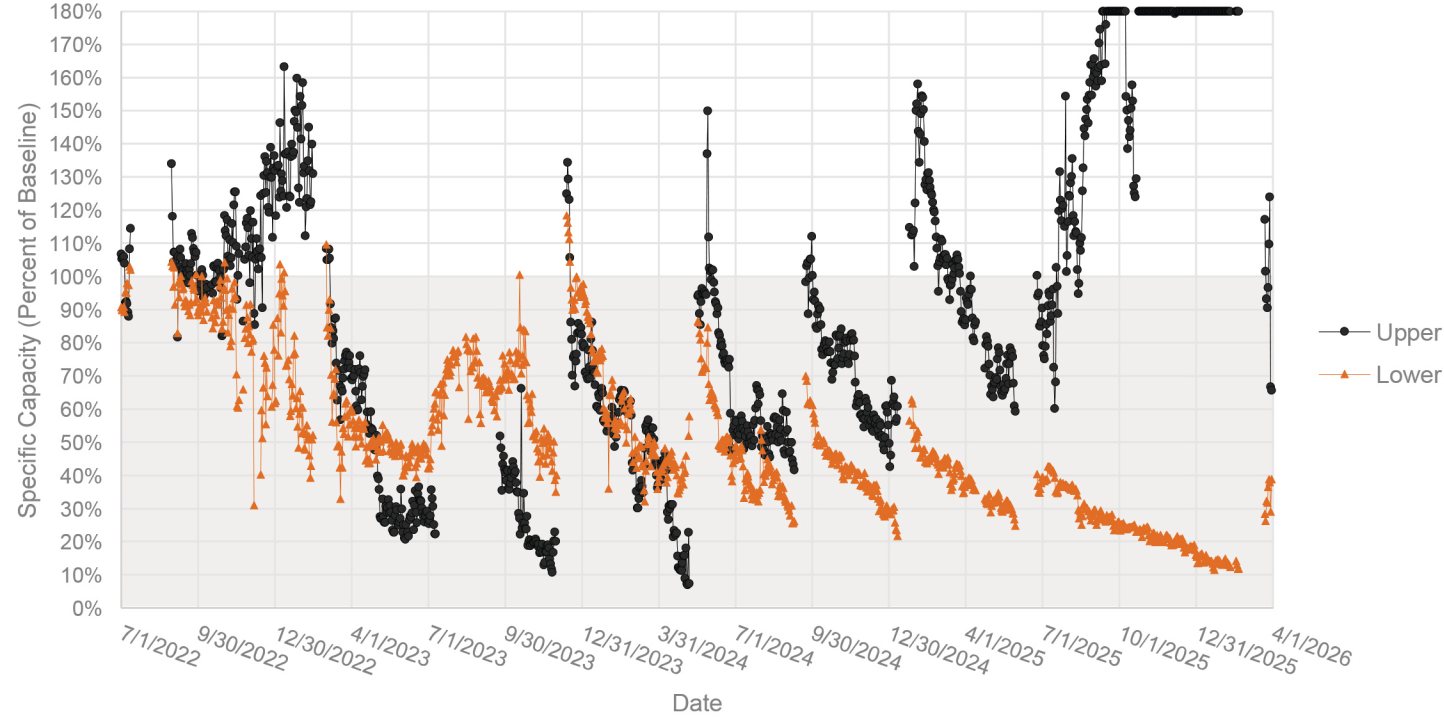
IRZ-15 Injection Screens



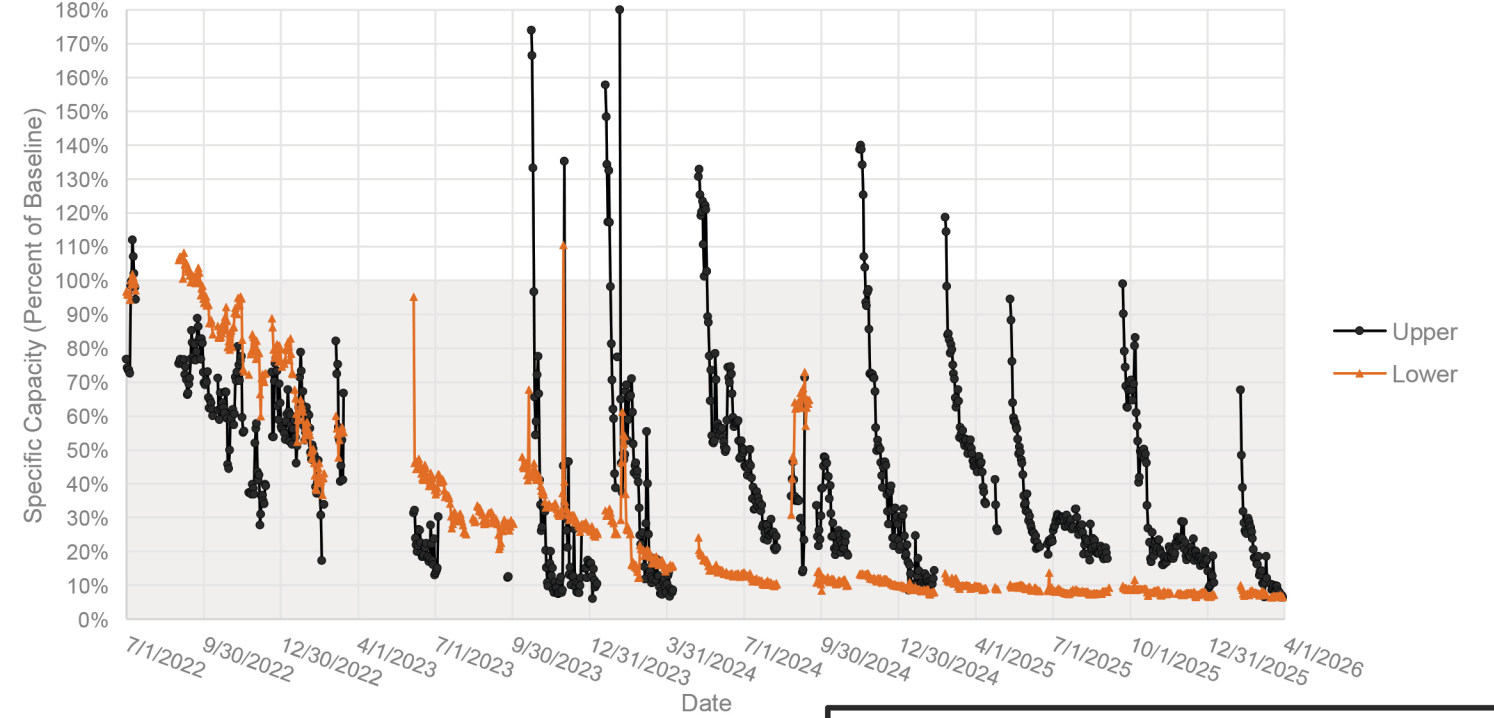
IRZ-17 Injection Screens



IRZ-16 Injection Screens



IRZ-18 Injection Screens



Notes:

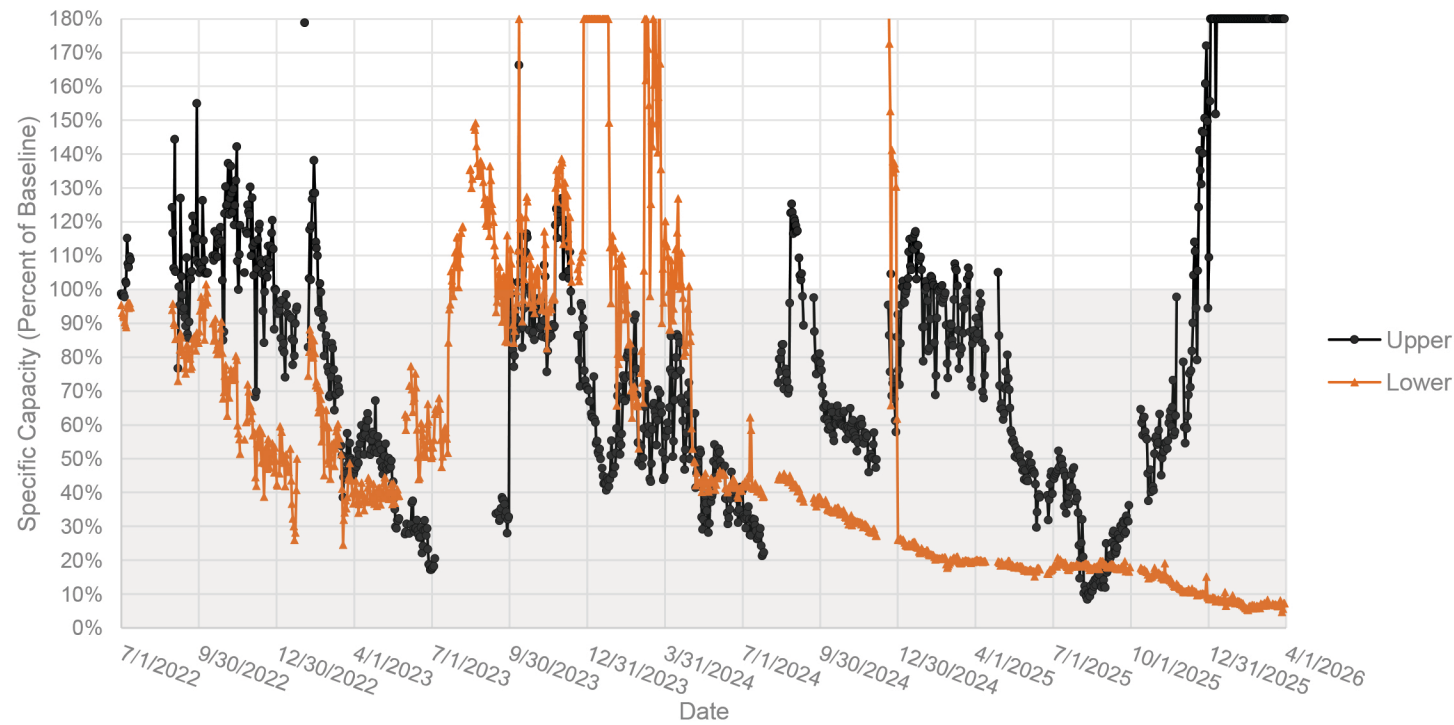
1. % = percent
2. Baseline specific capacity for each screen interval is represented as 100% on the y-axis. Specific capacity values greater than 100% indicate performance exceeding baseline. Values less than 100% are shaded gray.
3. Specific capacities greater than or equal to 180% are shown as 180% to indicate well was operational at a high specific capacity.
4. IRZ-15 (upper) began operation in March 2023. IRZ-15 (lower) began operation in April 2023. Baseline specific capacities were established for these wells in June and August 2023, respectively. The graphs exclude data collected prior to the baseline specific capacity being established.
5. Displayed notes pertain exclusively to data from the current quarter.

FIRST QUARTER 2026
WELL PERFORMANCE REPORT
PG&E TOPOCK COMPRESSOR STATION
NEEDLES, CALIFORNIA

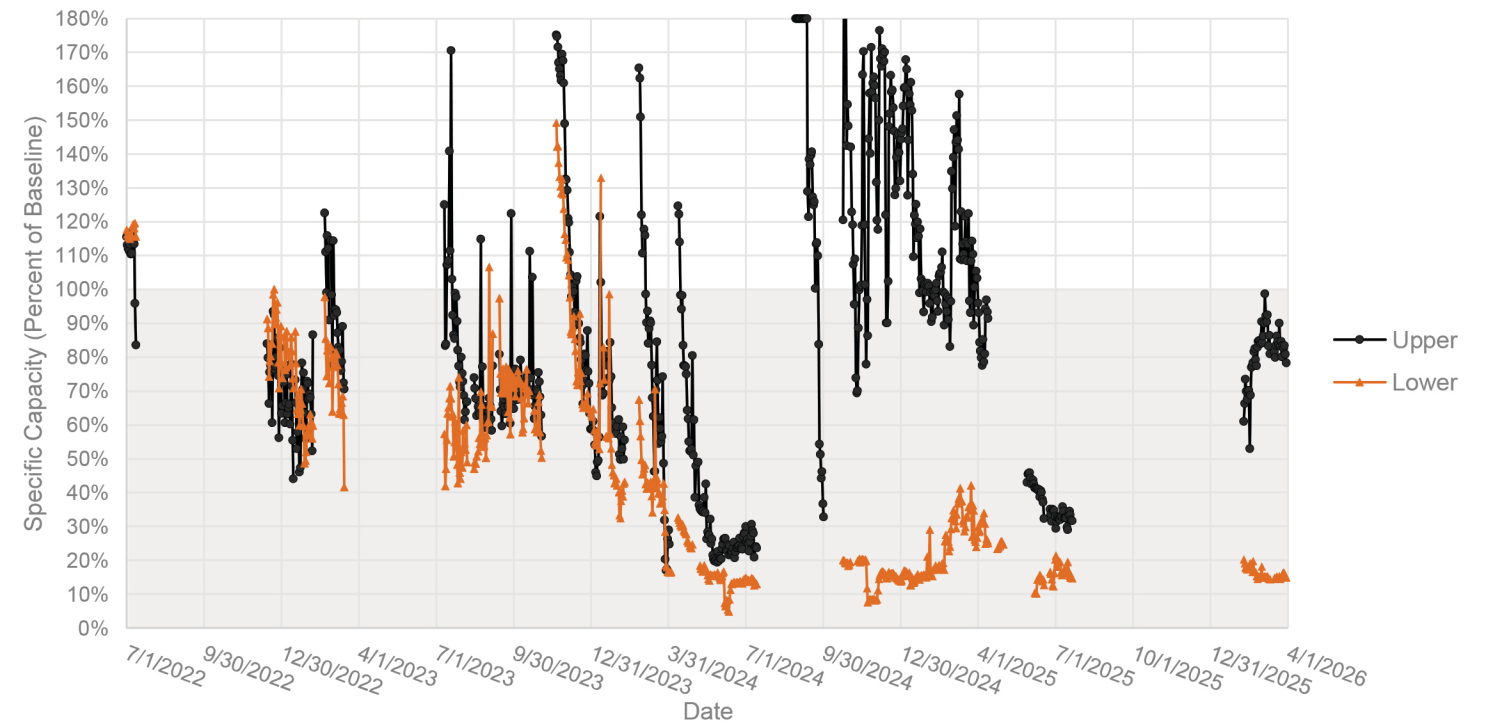
**INJECTION WELL SPECIFIC
CAPACITY TRENDS PART 1**



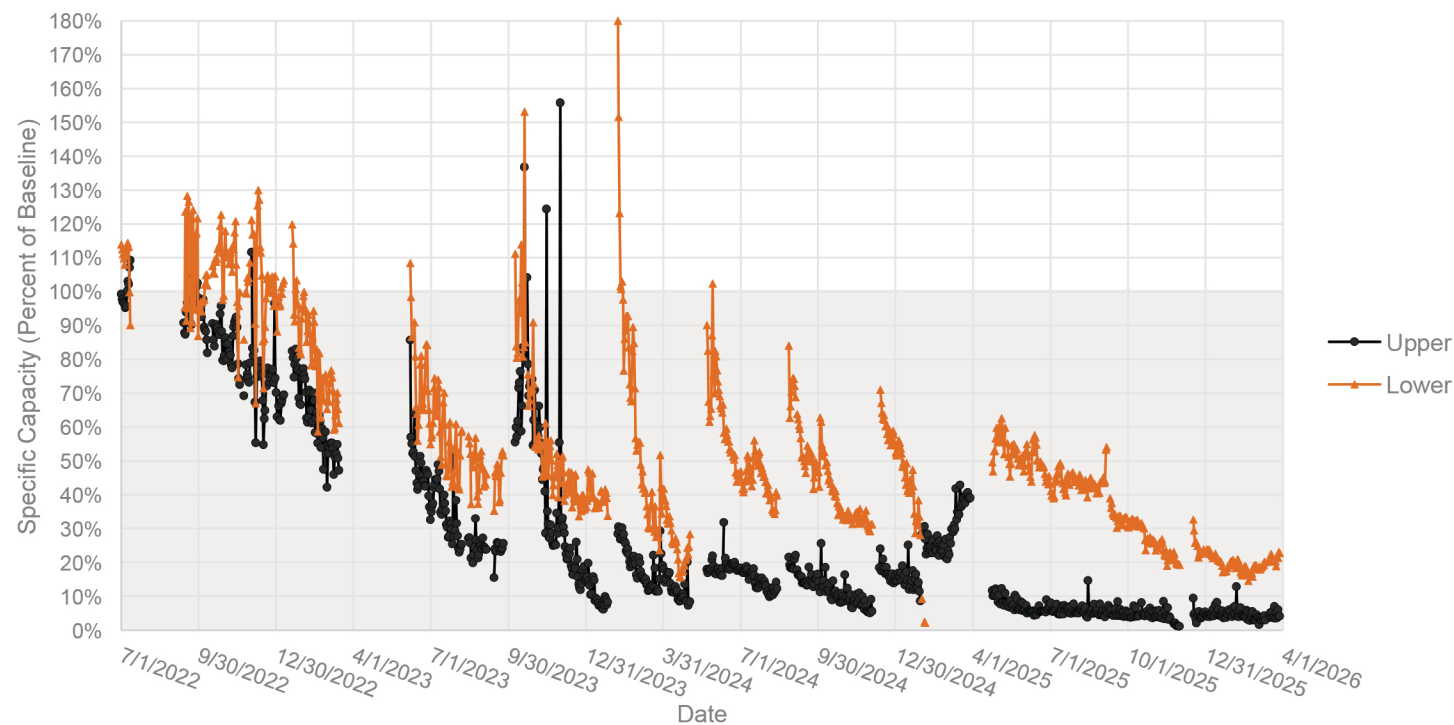
IRZ-20 Injection Screens



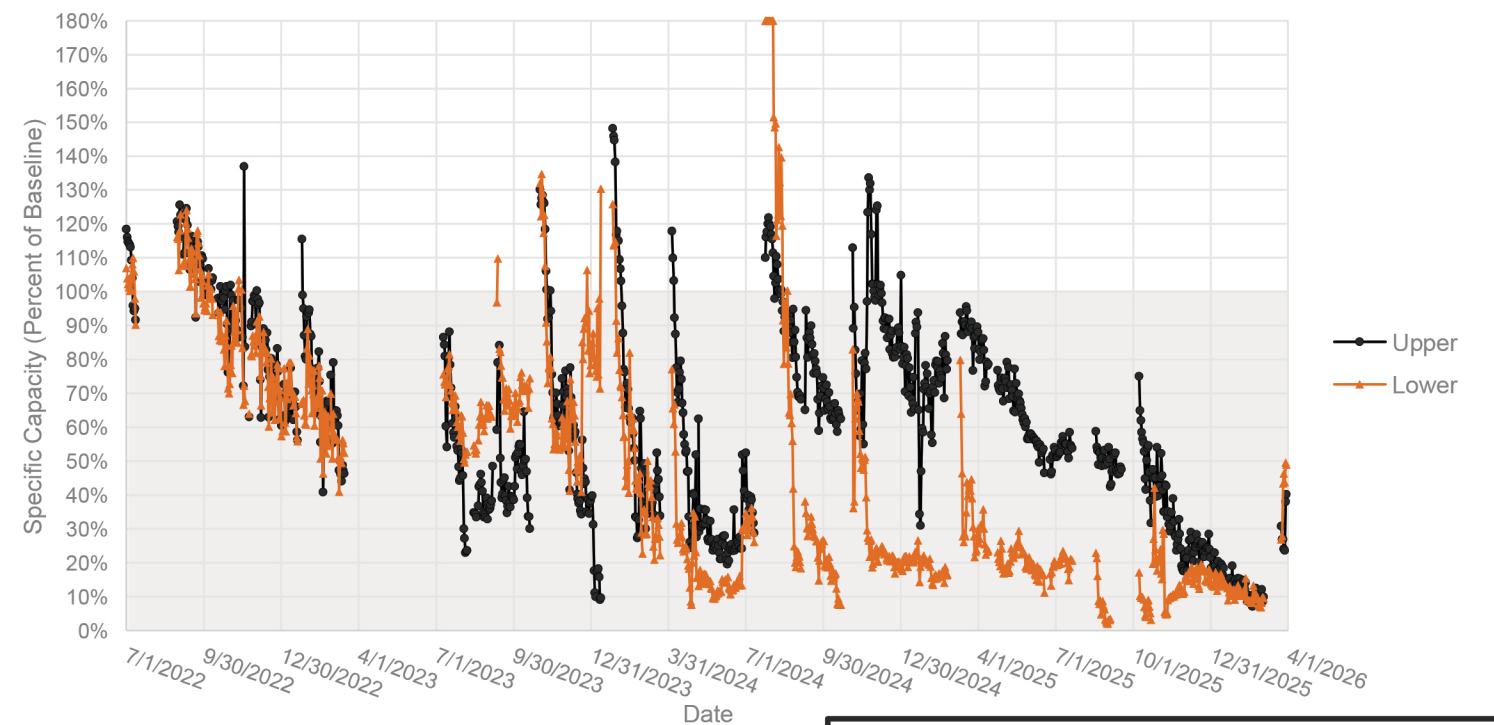
IRZ-29 Injection Screens



IRZ-27 Injection Screens



IRZ-31 Injection Screens



Notes:

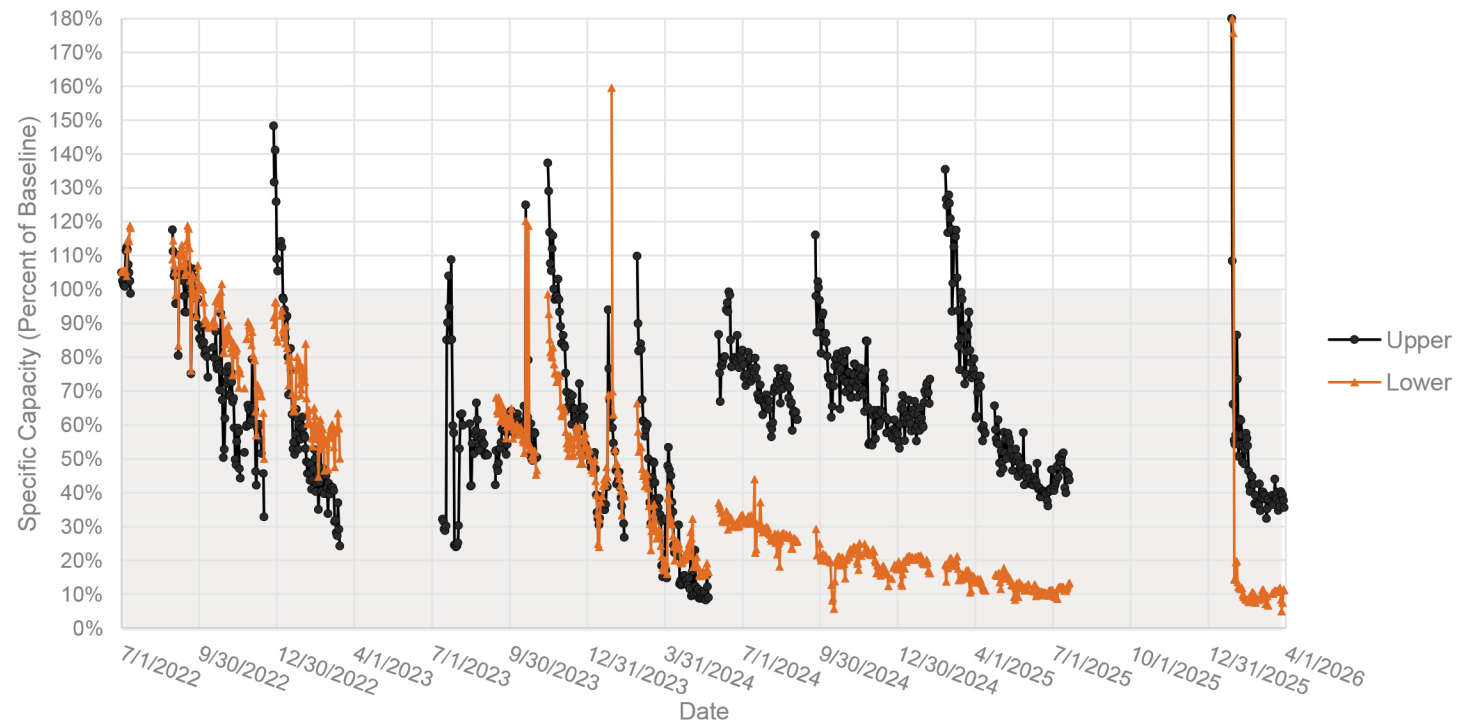
1. % = percent
2. Baseline specific capacity for each screen interval is represented as 100% on the y-axis. Specific capacity values greater than 100% indicate performance exceeding baseline. Values less than 100% are shaded gray.
3. Specific capacities greater than or equal to 180% are shown as 180% to indicate well was operational at a high specific capacity.
4. Displayed notes pertain exclusively to data from the current quarter.

FIRST QUARTER 2026
WELL PERFORMANCE REPORT
PG&E TOPOCK COMPRESSOR STATION
NEEDLES, CALIFORNIA

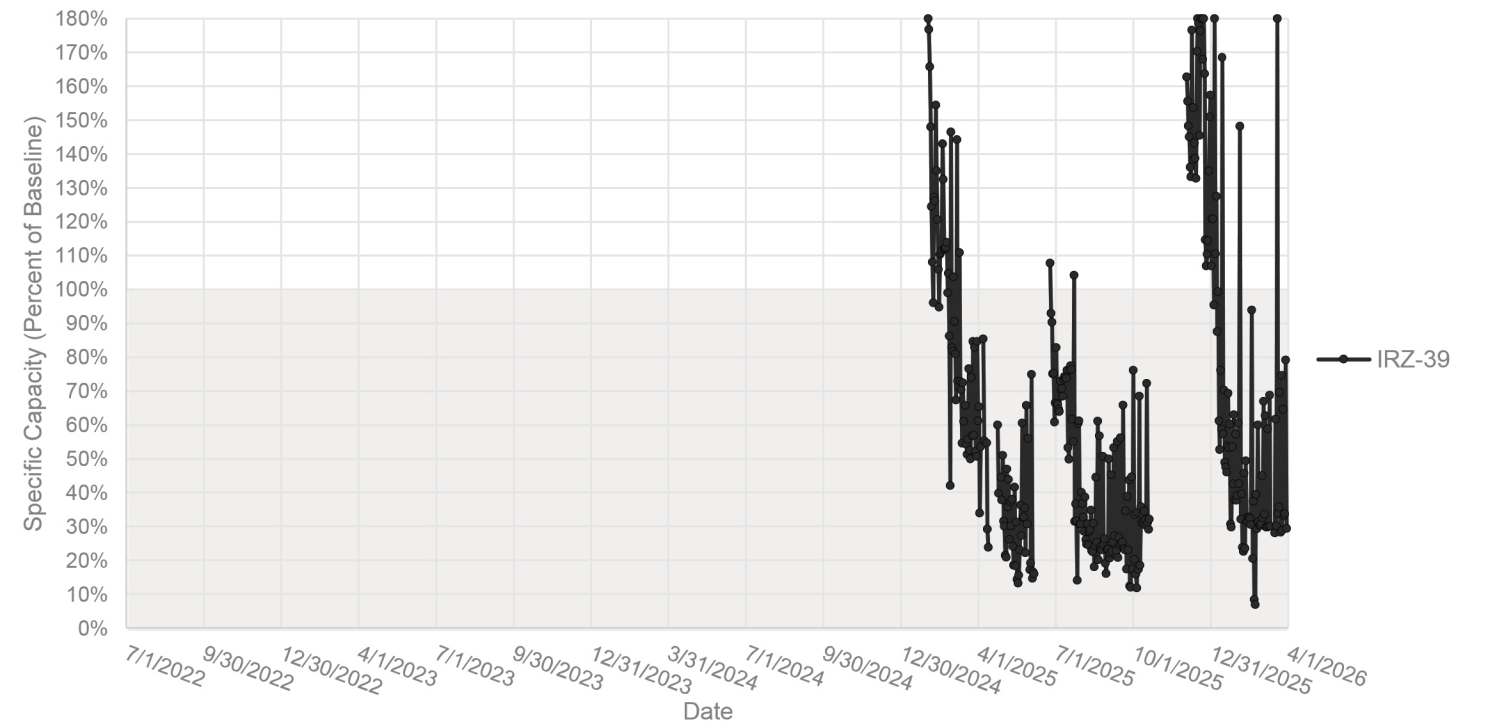
**INJECTION WELL SPECIFIC
CAPACITY TRENDS PART 2**



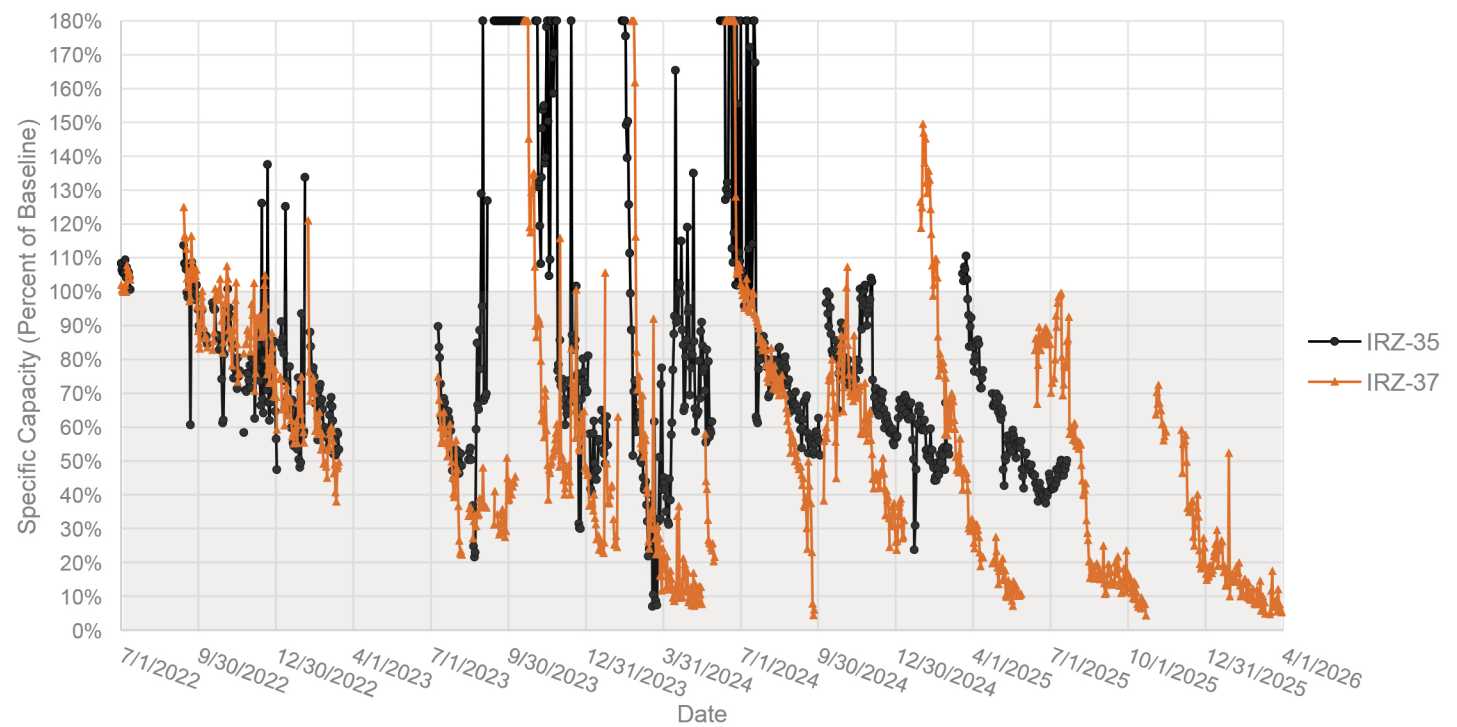
IRZ-33 Injection Screens



IRZ-39 Injection Screens



IRZ-35 and IRZ-37 Injection Screens



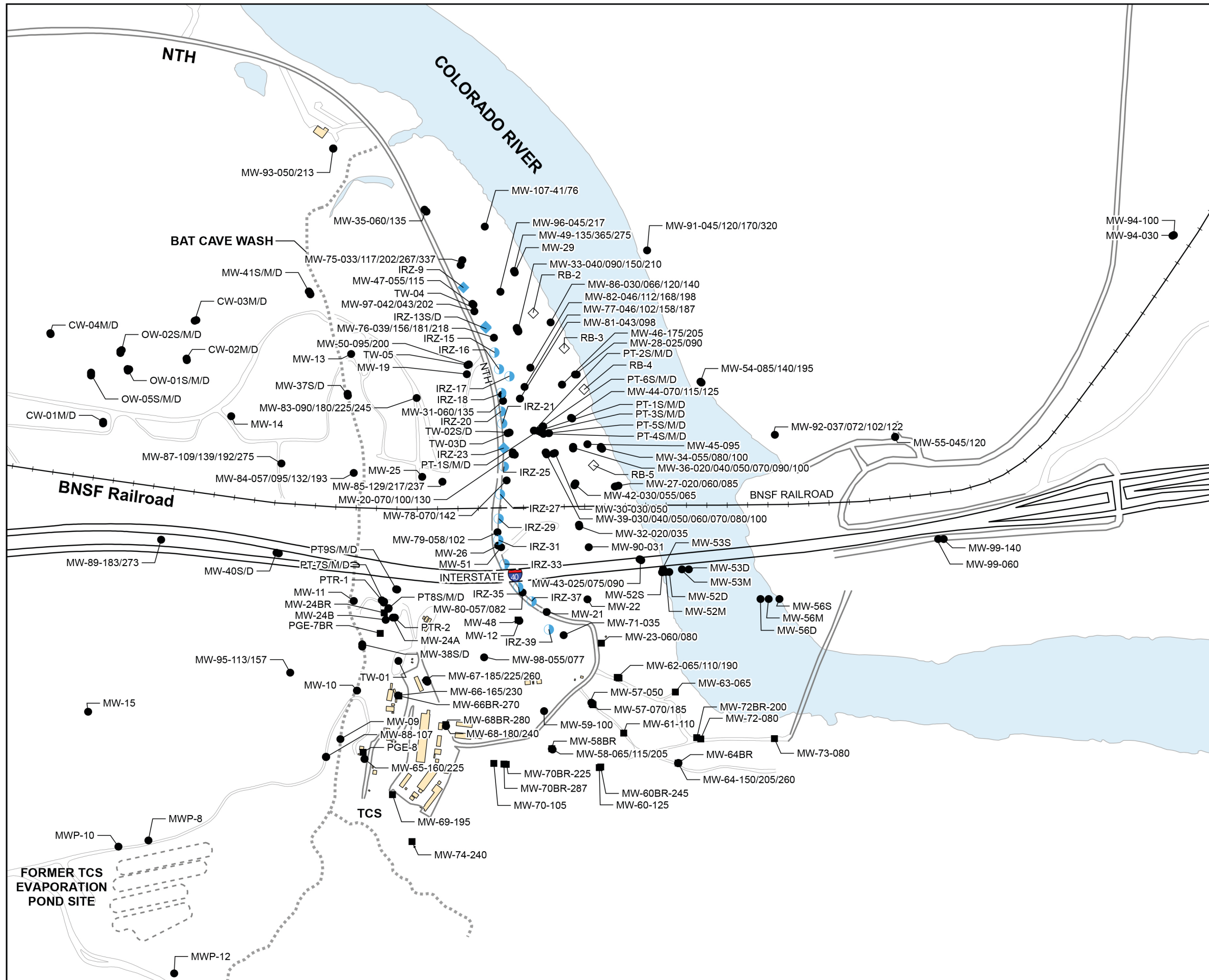
Notes:

1. % = percent
2. Baseline specific capacity for each screen interval is represented as 100% on the y-axis. Specific capacity values greater than 100% indicate performance exceeding baseline. Values less than 100% are shaded gray.
3. Specific capacities greater than or equal to 180% are shown as 180% to indicate well was operational at a high specific capacity.
4. IRZ-39 began operation again in December 2024. A baseline specific capacity was established for this well in February 2025. The graph excludes data collected prior to the baseline specific capacity being established.
5. Displayed notes pertain exclusively to data from the current quarter.

FIRST QUARTER 2026
WELL PERFORMANCE REPORT
PG&E TOPOCK COMPRESSOR STATION
NEEDLES, CALIFORNIA

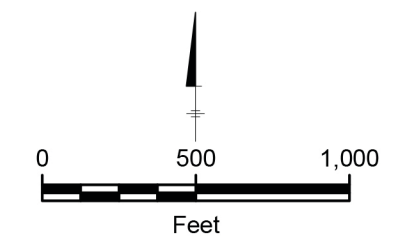
**INJECTION WELL SPECIFIC
CAPACITY TRENDS PART 3**





- LEGEND**
- GROUNDWATER MONITORING WELL
 - ◐ REMEDIATION WELL (INJECTION)
 - ◆ REMEDIATION WELL (EXTRACTION)
 - ◇ REMEDIATION WELL (NOT PLUMBED INTO SYSTEM CURRENTLY)
 - BEDROCK WELL
 - BAT CAVE WASH

- Notes:**
1. NTH = National Trails Highway
 2. TCS = Topock Compressor Station



FIRST QUARTER 2026
WELL PERFORMANCE REPORT
PG&E TOPOCK COMPRESSOR STATION
NEEDLES, CALIFORNIA

MONITORING WELL NETWORK



FIGURE
4.1

Arcadis U.S., Inc.
100 Montgomery Street
Suite 300
San Francisco
California 94104
Phone: 415 374 2744
Fax: 415 374 2745
www.arcadis.com