

February 20, 2025

**MEMORANDUM**

TO: MCCSD Board of Directors  
FROM: District Superintendent  
RE: 44780 Little Lake Rd. Hydrological Study

**44780 Little Lake Road Hydrological Study**

Aquifer Test

On November 11, 2024 a constant rate aquifer pump test was conducted for a hydrological study of a 0.79-acre developed parcel located at 44780 Little Lake Rd, APN 119-140-16 (Figure 1-3). Hurvitz Environmental Services Inc conducted the aquifer test and prepared the Hydrological Study for property owners Lisa Clifton-Bumpass and Lorril Fong-Jean, who have applied to add a two (2) bay garage with a 576 sq ft. guest cottage. The parcel is currently approved for a 3-bedroom single-family residence with a Groundwater Extraction Permit allotment of 260 gal/day.

Drawdown and recovery measurements were taken in the 105 ft deep site well (Table 1) during the aquifer test. The test well was pumped at an average constant rate of 1.39 gpm for 72-hrs to determine the aquifer characteristics. Following the required 72-hr pump test period, well recovery was monitored for a 24-hour period.

Casing	5" PVC
Depth of Seal	65 ft.
Perforations	Screen from 21-105 ft, 3 perforation per row, 3 rows per ft.
Well Depth	105 ft.
Estimated Long-Term Yield	4 gpm
Static Water Level (on test day)	23.94 ft.
Depth to Bedrock	15ft.

Table 1 Site Well (# 126038) Characteristics

**Hydrological Study**

The purpose of the hydrological study was to: 1) prove that the site well produced adequate groundwater for the existing approved use and for future new development on the parcel, 2) prove that there was no adverse effect to hydrologically contiguous wells during the aquifer pump test, 3) determine if there was any adverse cumulative effect on the monitoring wells resulting from the current test and past District approvals, 4) calculate long-term drawdown in the monitoring wells during 90-day dry weather and 180-day drought conditions, and 5) determine the effect that the proposed groundwater extraction has on the local aquifer.

1. Adequate Water Supply

The aquifer pump test proved adequate groundwater was available for the existing and proposed development. The pump rate during the aquifer test must be at least 2.5 times

the estimated allotment for the proposed development to prove an adequate water supply. The site well was pumped at 1.39 gpm for 72-hrs. A total of 6,020 gallons of water was extracted during the test (1.39 gpm).

The Site Well had a total draw down of 3.36 ft about 4% of the water column during the 72hr draw down test with an 84% recovery of (2.81 ft) in the 24 hrs. following the test. (Table 2)

**TABLE 2 – PUMPING WELL DATA**

Well ID / Pumping Rate	Total Well Depth	Depth to Static Water	Total Water Column	72-hour Drawdown	24-hr Recovery	Drawdown as % of Water Column	Recovery as % of Static Water Level
Site Well 1.39 gpm	105	23.94	81.04	3.36	2.81	4%	84%

The aquifer pump test with a constant discharge rate of 1.39 gal/min for 72 hours demonstrated that there is adequate groundwater for the current development and the proposed project.

## 2. Adverse Effect on Hydrologically Contiguous Wells

Neighboring property owners were contacted regarding the aquifer test, and two elected to have their wells monitored: Hansen Well #419965 (OB-1), Hills Ranch Well #13(OB-2), HR-11 (OB-3) HR-4 (OB-4) Figure 1 & 2 identify the location of the monitoring wells in relation to the site pumping well (Site Well #126038).

Ordinance 2020-01 aquifer testing protocol states that an adverse effect to an adjacent well occurs if the well’s static water column is lowered by >10% during the 72-hr. aquifer pump test. During the 44780 L.L. test, the hydrologist determined that an average discharge rate of 1.39 gpm during the 72-hr. period did not create an adverse effect to the monitoring wells.

The greatest drawdown observed during the 72-hr. test was 3.36 ft. in Site Pumping Well which had an 84% recovery in the in the 24 hrs post-test. None of the four (4) observation wells had any recorded drawdown. No adverse effect was observed in any of the four observation/monitoring wells.

The effects on each monitoring well were calculated from the pump test data found in Table 3.

Owner & Well #	Distance to Site Well, ft	Well Depth, ft	Depth to Water, ft	Static Water Column, ft	3-Day Drawdown	3-Day Affect, %
Site Well, #126038	-----	105	23.94	81.04	-3.36	4%
Hansen Well OB-1	150	160	26.05	132.55	+4.93	<b>0.00</b>

Hill Ranch-13 OB-2	305	248	27.45	221.95	+5.98	<b>0.00</b>
Hill Ranch-11 OB-3	595	22	6.46	15.54	+0.97	<b>0.00</b>
Hill Ranch-4 OB-4	675	19	7.95	11.05	+0.99	<b>0.00</b>

Table 3 Drawdown effects on monitoring wells.

### 3. Adverse Cumulative Effects

An adverse cumulative effect occurs if the calculated sum of incremental drawdown(s) in the observation wells caused by the pumping well from the current test and from the test wells from past approved hydrological studies near the observation wells amounts to more than 10% of the water column in any of the observation wells. Tables 2 and 3 shows the results of this analysis.

“In order to evaluate the potential cumulative impacts to near-site wells HES reviewed previous hydrogeological studies performed for properties proximate to the Site. These included: 1) The 2016 Lawrence and Associates Hydrologic Study of the Grinberg property located at 44556 Little Lake Road, 2) The 2006, Pacific Geoscience study of the Wilson Property located at 44701 Little Lake Road, 3) The 2006, Pacific Geoscience study of the Skaarup Property located at 44580 Little Lake Road, 4) The 2004, Questa Engineering study of the Wardlaw Property located at 44658 Little Lake Road (See section 9.0- References). These four (4) hydrogeologic studies represent the closest assessments to the subject property and had observation wells that could be considered to be within the long-term radius of influence of the Site Well. (P. 19-21 Hydrologic Assessment Report 44780 Little Lake Rd.)

Table 4 Cumulative Aquifer Impacts

Well ID	Distance to Site Well	Well Depth	Depth to Water on Test Date	Water Column	180-day Predicted Interference from Initial Well study	180-day Predicted interference from 2024 Site Study	180-day Interference from other Assessments 180-days***	Total Predicted Cumulative Interference 180-days	Total Predicted Effect
<b>Feet</b>									<b>%</b>
<b>2016 Study - 44556 Little Lake Road – Grinberg Property</b>									
OB-1	1,630	80	23.43	56.57	2.28	0.04	NA	2.32	4.03%
OB-2	1,510	48.5	31.97	16.53	1.35	0.04	NA	1.39	8.56%
OB-4	1,830	30	19.53	10.47	1.05	0.04	NA	1.09	10.41%
<b>2006 Study - 44701 Little Lake Road - Wilson Property</b>									
S-O	Site Well	105	23	10.49	0.06	NA	NA	0.06	0.62%
H-O	150	160	NA	116.45*	0.06	0.614	NA	0.674	0.58%
<b>2006 Study - 44580 Little Lake Road – Skaarup Property</b>									
S-HD	1,340	16.85	10.5	6.35	0.46	0.05	NA	0.51	8.03%
L-O	1,170	200	45.21	15	0.35	0.06	NA	0.41	2.73%
O-O	1,950	130	15.83	114.17	0.12	0.03	NA	0.15	0.13%
<b>2004 Study – 44658 Little Lake Road – Wardlaw Property</b>									
Well B	1,050	40	11.9	28.1	1.09	0.06	NA	1.15	4.09%

\* Based on available water column from 2024 test of the Site Well.

The cumulative aquifer impact analysis indicates that the proposed increase in pumping at the Site Well will only have a minimal impact on the overall drawdowns in observation wells from previous studies.

Looking at the results from Table #2 and Table #3, there was no adverse cumulative effect to the monitoring wells.

4. 90-day and 180-day Projected Drawdown

“To calculate the predicted drawdown in the observation wells over a 3-day, 90-day and 180-day time period we used the Theis solution<sup>8</sup>. To use this method, we relied on the previously estimated storativity value (0.0016) for the Franciscan aquifer, the aquifer transmissivity calculated from the Site Well test, the distances to the observation wells, time, and the estimated pumping rate. Also, for this long-term assessment of drawdown, we used an estimated pumping rate of 0.25 gpm for the Site Well. This is the pumping rate that the Site is requesting to use, which includes the future development. The results of the calculations for each of the observation wells are tabulated below on **Table 6 – Predicted Drawdown Over Time**.

**TABLE 6 – PREDICTED DRAWDOWN OVER TIME**

Well ID	Distance to Pumped Well	Pumping Rate	Available Water Column	Drawdown at 3-days	Drawdown at 90-days	Drawdown at 180-days	Total Predicted Effect (180-days)
	feet	gpm	----feet----				%
Hansen Well	150	0.25	116.45	0.21	0.54	0.614	0.5%
HR-13	305	0.25	221.95	0.085	0.401	0.470	0.2%
HR-11	595	0.25	15.54	0.014	0.268	0.336	2.16%
HR-4	675	0.25	11.05	0.008	0.244	0.311	2.81%

Table 6: Projected drawdown when Site Well #126038 is pumped at 0.25 gpm

MCCSD Ordinance No. 2021-01 defines an adverse effect as greater than 10 percent drawdown in the Observation Wells. Predicted drawdowns for the three time periods ranged from 0.008 to 0.614 feet. None of the predicted drawdowns exceeded 10 percent of the available drawdown, therefore, no adverse effects to water levels would be expected after 90 or 180-days of pumping the Site Well.

P. 17-18 Hydrologic Assessment Report 44780 Little Lake Rd.)

5. Regional Aquifer Impact

Hurvitz Environmental Services Inc concluded that there was adequate groundwater available for the current 3-bedroom single family residence and proposed development of a guest cottage. The proposed annual water usage will be a maximum of 131,400 gallons per year.

The HES study stated that groundwater production will be from both the marine terrace deposits and the underlying fractured bedrock.

Looking at average annual precipitation in the District of 39.68” per year, average annual recharge on the parcel was estimated by the hydrologist at 851,210 gal/year 2.61 acre-feet/year. However, this estimate does not account for surface run off and evapotranspiration. Lateral groundwater flow into the parcel is estimated at 436,640 gal/year. Annual recharge and lateral flow equal 3.95 acre-feet/year or 2.45 gpm. Based on the comparison of annual pumpage vs. recharge plus lateral flow, there will be a negligible impact to the local aquifer due to the new development.

### **TODD Groundwater Review**

Mike Maley, a senior hydro geologist for Todd Groundwater reviewed the Hydrological Study (see attached report) to evaluate compliance with District Groundwater Extraction Permit Ordinance. Mr. Maley concluded that the Hydrological Study adequately addressed the requirements of MCCCSD Ordinance 2020-01. No deficiencies in the hydrological study were found during Mr. Maley’s review.

### **Findings**

The purpose of the Hydrological Study was to determine: 1) if an adequate water supply existed for the proposed development, 2) if there was any adverse effect on hydrologically contiguous wells during the aquifer test, 3) if there was an adverse cumulative effect to the monitoring wells, and 4) if there will be an impact on the local aquifer.

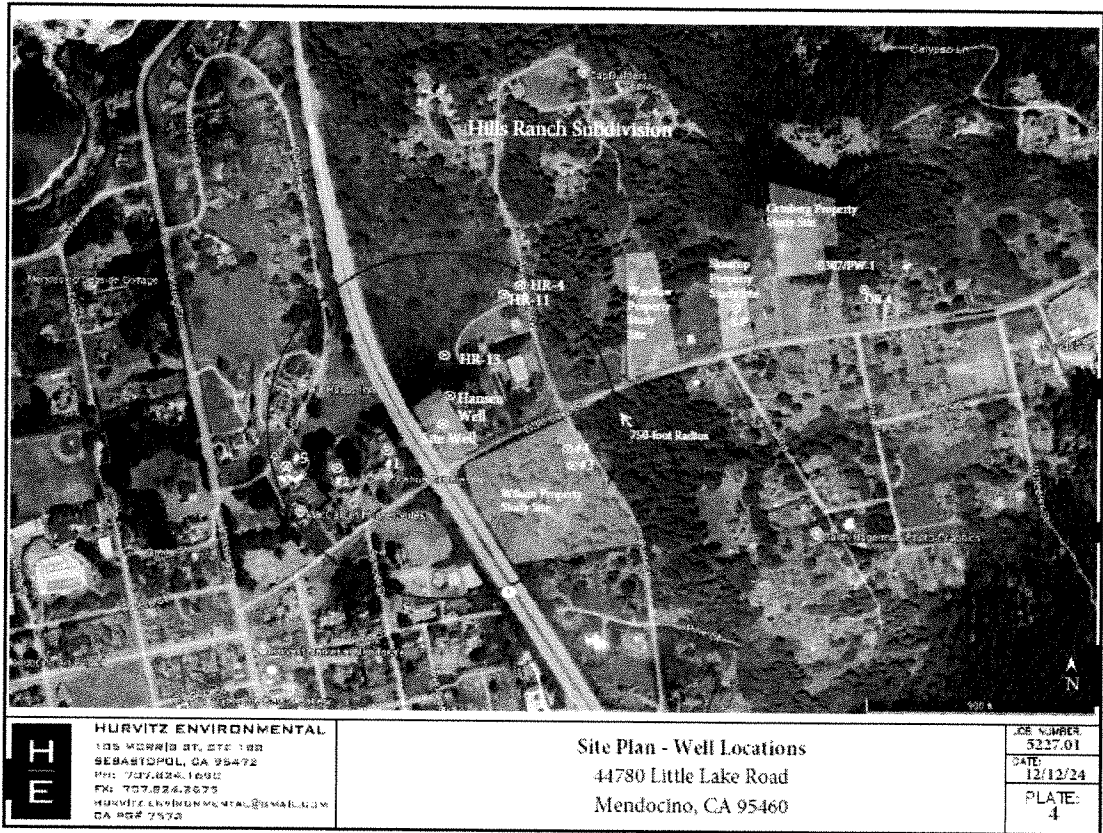
- Field data obtained during the November 11-14, 2024 aquifer pump test and the Hydrological Study data analysis provided proof that there was an adequate water supply for future development of the parcel with an allotment not to exceed 0.56 gpm.
- The neighboring wells monitored during the aquifer test were not adversely affected during the aquifer test.
- There was no adverse cumulative effect to the monitoring wells caused by the Site well pumping and wells from past hydrological study approvals.
- The Hydrological Study indicates that there will be no adverse impact on the local aquifer by the additional groundwater extraction from the proposed project.

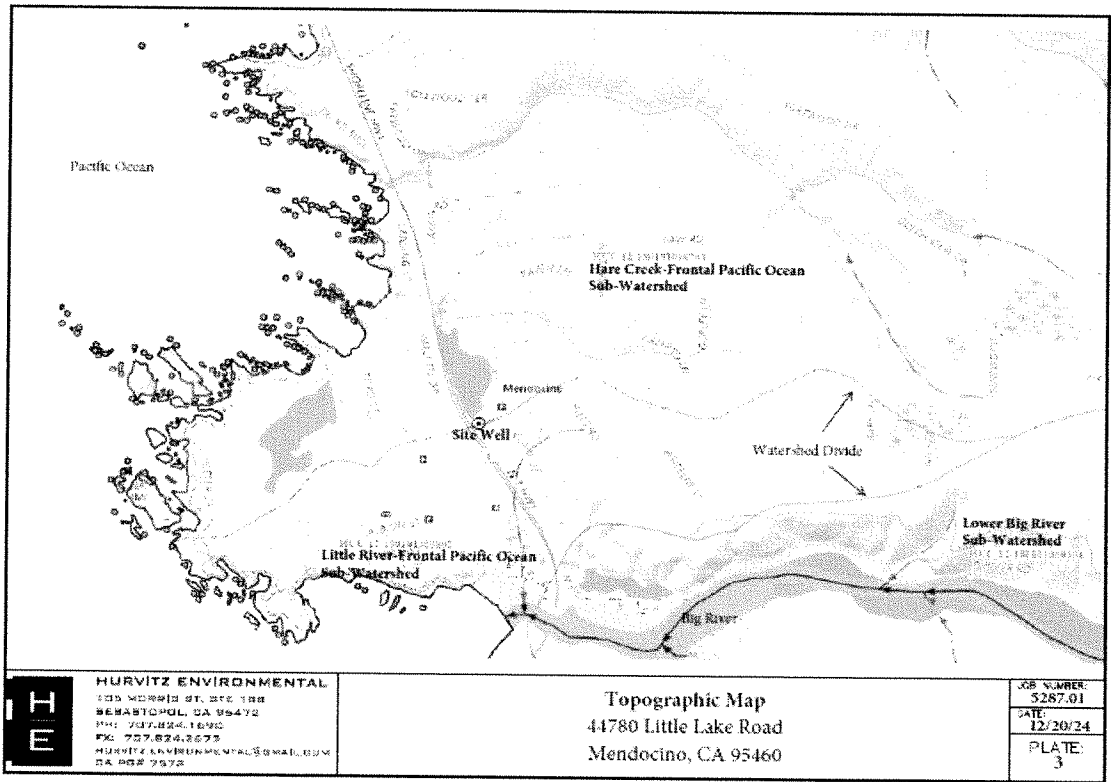
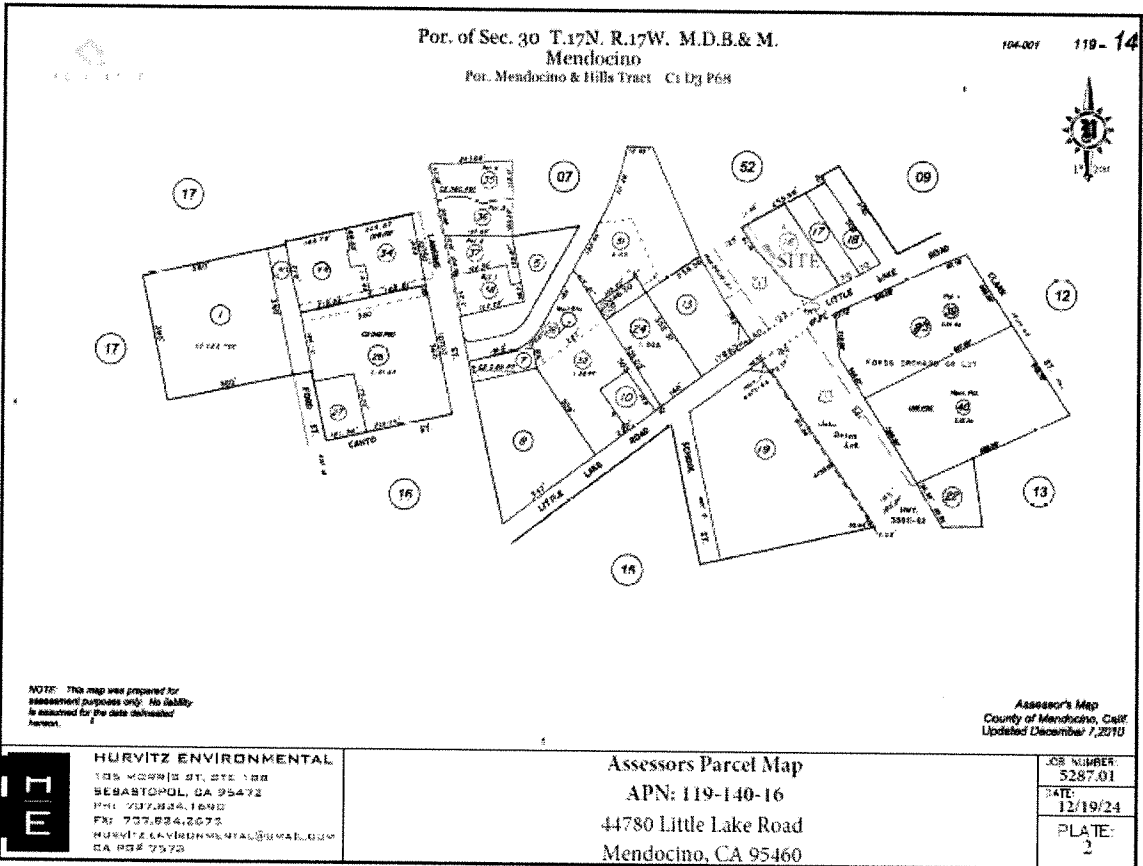
### **Staff Recommendations**

Staff recommends approval of the Hydrological Study for APN 119-140-16 for future development of the parcel with the following conditions:

1. Based on the aquifer test data and the conclusions of the Hydrological Study, it is recommended that max potential water allotment for the site well at 44780 Little Lake Rd. never exceed 0.56 gpm or 806 gal/day.
2. Based on the Groundwater Extraction Permit (GWEP) application submitted 10-15-24, for additional development of 44780 Little Lake Rd, it is recommended to set an allotment not to exceed 360 gal/day.

3. As a condition of the GWEP, a water meter shall be maintained at the wellhead on the parcel and monthly meter readings shall continue to be submitted to the District.





77-088

DUPLICATE  
Retain this copy

STATE OF CALIFORNIA  
THE RESOURCES AGENCY  
DEPARTMENT OF WATER RESOURCES  
WATER WELL DRILLERS REPORT

Do Not Fill In

No. 126038

State Well No. \_\_\_\_\_  
Other Well No. 0639

(1) OWNER:  
Name SMITH & MORT  
Address 103 PACIFIC AVE  
RED BLUFF, CA.

(2) LOCATION OF WELL: 119-140-10  
County MENUDO  
Township, Range, and Section N47E LITTLE LAKE RD.  
Distance from cities, roads, railroads, etc. ALBUQUERQUE, CA.

(3) TYPE OF WORK (check):  
New Well  Deepening  Reconditioning  Destroying   
If destruction, describe material and procedure in Item 11.

(4) PROPOSED USE (check):  
Domestic  Industrial  Municipal   
Irrigation  Test Well  Other

(5) EQUIPMENT:  
Rotary AIR   
Cable   
Other

(6) CASING INSTALLED:  
STEEL:  SINGLE  DOUBLE  OTHER: \_\_\_\_\_  
If gravel packed \_\_\_\_\_

From ft.	To ft.	Diam.	Gage or Wall	Diameter of Bore	From ft.	To ft.
0	105	5	160	10	0	20
				7	20	105

Site of this or well rings: \_\_\_\_\_ Site of gravel: SEA

(7) PERFORATIONS OR SCREEN:  
Type of perforation or name of screen SKILL SAW

From ft.	To ft.	Perf. per row	Rows per ft.	Size in. x in.
21	105	3	3	7/8 x 6"

(8) CONSTRUCTION:  
Was a surface sanitary seal provided? Yes  No  To what depth 65 ft.  
Were any steps used against pollution? Yes  No  If yes, note depth of steps \_\_\_\_\_  
From \_\_\_\_\_ ft. to \_\_\_\_\_ ft.  
Method of sealing CONCRETE

(9) WATER LEVELS:  
Depth at which water was first found, if known 65 ft.  
Standing level before perforating, if known \_\_\_\_\_ ft.  
Standing level after perforating and developing \_\_\_\_\_ ft.

(10) WELL TESTS: BOILER  
Temperature test made? Yes  No  If yes, by whom? DRILLER  
dd: 4 gal./min. with \_\_\_\_\_ ft. drawdown after \_\_\_\_\_ hrs.  
Temperature of water \_\_\_\_\_ Was a chemical analysis made? Yes  No   
Was electric log made of well? Yes  No  If yes, attach copy \_\_\_\_\_

Work started 8-15-77, Completed 8-15-77

WELL DRILLER'S STATEMENT:  
This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.

NAME KELLEY PUMP & DRILLING INC.  
Address P.O. Box 772 Ft. BRAGG  
[SIGNATURE] W. KELLEY (Well Driller)  
License No. 325572 Dated 8-15-77

SKETCH LOCATION OF WELL ON REVERSE SIDE



February 20, 2025

## MEMORANDUM

**To:** Ryan Rhoades, District Superintendent,  
Mendocino City Community Services District

**From:** Michael Maley, PE, PG, CHg  
Principal Hydrogeologist, Todd Groundwater

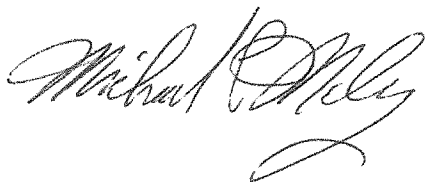
**Re:** Review of Hydrological Study, *Hydrologic Assessment Report, 44780 Little Lake Road, Mendocino, California 95460: APN 119-140-16*

As requested by Mendocino City Community Services District (MCCSD), Todd Groundwater has reviewed the following report prepared by Hurvitz Environmental Services Inc., dated December 27, 2024, entitled:

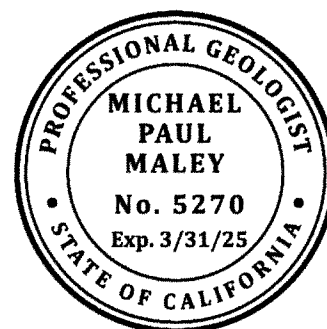
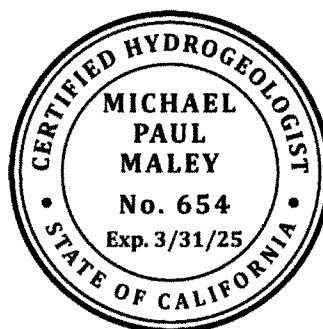
*Hydrologic Assessment Report, 44780 Little Lake Road, Mendocino, California 95460:  
APN 119-140-16*

The Hydrologic Assessment Report (Report) was submitted to MCCSD as part of an application for a groundwater extraction permit. The Parcel's current daily water allotment is 260 gallons per day (0.18 gallons per minute (gpm)) based on the existing 2-story, 3-bedroom, single family residence, and two small non-occupied outbuildings. The Report states that the owner wants to develop the property with a 2-bay garage with non-commercial residential guest cottage above the garage. Based on this development, the owner is applying for an increase in the water allotment for the site to 360 gallons/day (0.25 gpm).

For the hydrologic study, a 72-hour well yield test was performed on a single Site well at a pumping rate of 1.39 gpm. According to the MCCSD Ordinance (Ord) 2020-1 Appendix A, the Proof of Adequate Water Supply is based on a reduction of 2.5 times the tested pumping rate with no adverse effects on neighboring wells. As shown on the attached Hydrologic Study Assessment Checklist, the hydrological study adequately addresses the requirements in Part 3 and Appendix A of the MCCSD Ordinance (Ord) 2020-1. The results of the hydrological study establishes proof of adequate water supply with no adverse effects on neighboring wells for the proposed water allotment of 360 gallons per day (0.25 gpm) at the site.



Michael Maley, PE, PG, CHg



<b>Mendocino City Community Services District Hydrologic Study Assessment Checklist</b>	
<b>Elements</b>	<b>Comments</b>
<b>Hydrological Study</b>	
Qualified hydrologist performed study	Study performed under the direction of Lee S. Hurvitz, PG #7573 CHG #1015
Duration	A 72 hour pump test with 24 hour recovery period was performed as required.
Study performed during hydrological testing period	The pump test was conducted from November 11 to 14, 2024. Rainfall from August 1, 2024 to the test date was 2.93 inches with 0.83-inches of rainfall during well testing. This is below the dry season well testing cut-off of 6-inches of rainfall.
<b>Appendix A – Study Guidelines</b>	
<b>Introduction</b>	
Project description	Adequately described on Page 1 of Study
Location relative to contiguous properties and wells	Adequately described on Pages 3
Location and site maps	Included as Plates 1, 2, 3 & 4. Minor text edit: Site Plan - Well Locations is mislabeled as Plate 3 rather than Plate 4.
Estimated Water Allotment	Adequately described on Page 2 of the Study. Current allotment is 260 gallons per day (0.18 gpm) based on the existing 2-story, 3-bedroom, single family residence, and two small non-occupied outbuildings. Owner applying to increase the water allotment to 360 gallons/day (0.25 gpm) based on adding 2-bay garage with non-commercial residential guest cottage above the garage.
<b>Local geology and groundwater</b>	
Local geology and groundwater	Adequately described on Page 3 and 4 of the Study
Aquifer description	Adequately described on Page 3 and 4 of the Study
On-Site hydrological conditions	Adequately described on Page 3 and 4 of the Study
	Photo logs are provided in Attachments A. DWR well completion reports are provided in Attachments C.
<b>Notice requirements for aquifer pump test</b>	
Notice requirements for aquifer pump test	Properly noticed and posted as described on Page 5 of the Study; supporting documentation in Attachment B
	Adequately described in Section 4 (pages 5-7). Pump test method performed in general accordance with procedures outlined in the Mendocino County Coastal Groundwater Development Guidelines

Monitoring well(s)	Pump test included 4 observation wells - Hansen Well, HR-13, HR-11 and HR-4, . HR-4, and HR-11 are installed entirely within the Terrace Deposits, and the Hansen Well, and HR-13 are installed within the Franciscan aquifer. Supporting data provided in Table 1, Plate 4, and Attachments A.
<b>Pump test data analysis</b>	
Well and aquifer characteristics	
Drawdown and recovery	Adequately described in Sections 5.1 and 5.2 (pages 8-10). Drawdown and recovery plotted on figures in Appendix D; tabulated result totals included in Tables 2 and 3 with full tabulated results included in Attachment D.
Transmissivity and storativity	Adequately described in Sections 5.4 and 5.5 (pages 11-12). Transmissivity and storativity calculated using the Cooper-Jacob method; solution graphs shown on Figures Appendix D. Prior test results in Table 4.
	on Section 5.7 (pages 13); specific capacity was calculated in Section 5.3 (page 10).
Proof of adequate water supply	The average tested pumping rate (1.39 gpm) exceeds the 2.5 times of the daily allotment (0.25 gpm) for the proposed development, so test is consistent with MCCSD Ordinance 2020-1.
<b>Aquifer effects</b>	
	Adequately described in Section 5.8 (pages 13-14) and Table 6. According to the Study: there were no adverse effects measured in offsite observation wells.
	Adequately described in Section 6 (pages 15-17). The Study used 4 previous approved hydrologic study wells to determine adverse cumulative effects. The calculations for this conclusion are included in Attachment F and summarized in Table 7.
Pump test results	Adequately described in Section 5 (pages 8-14). Appendix D includes observed drawdown during the pumping test and well test graphs with summary of test results.
Projected drawdown	Adequately described in Section 5.6 and 5.8 (pages 13-14) and Tables 5 and 6. The estimated and observed drawdown during the pumping test within the radius of influence is shown in tabular form in Appendix D.
Regional aquifer impact	Adequately described in Section 7 (pages 18-20). Section 7 includes a water budget analysis of

	groundwater storage, groundwater recharge and drought conditions.
<b>Mitigation of adverse effect and adverse cumulative effect</b>	No adverse effects were observed; therefore, no mitigation measures are proposed in the Study
<b>Conclusions</b>	Conclusions summarize all relevant information per Ord 2020-1.
<b>Appendices</b>	Appendices contain relevant data and information required in Ord 2020-1.

# HYDROGEOLOGIC ASSESSMENT REPORT

**44780 Little Lake Road  
Mendocino, CA 95460  
APN 119-140-16**

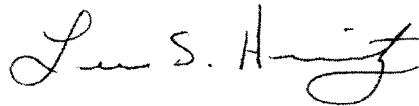
PREPARED FOR:

Lisa Clifton-Bumpass  
44780 Little Lake Road  
Mendocino, CA 95460

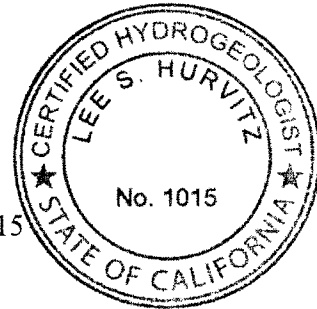
**December 27, 2024**

PREPARED BY:

**HURVITZ ENVIRONMENTAL SERVICES INC.**  
105 Morris Street, Suite 188  
Sebastopol, California 95472



Lee S. Hurvitz, PG #7573 CHG #1015  
Certified Hydrogeologist



PROJECT No. 5287.01

December 27, 2024

Lisa Clifton-Bumpass  
44780 Little Lake Road  
Mendocino, CA 95460

RE: Hydrogeologic Assessment Report  
44780 Little Lake Road  
Mendocino, CA 95460  
APN 119-140-16  
Hurvitz Environmental Project No. 5287.01

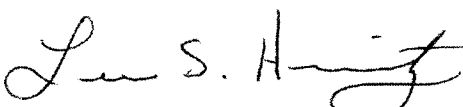
Dear Ms. Clifton-Bumpass:

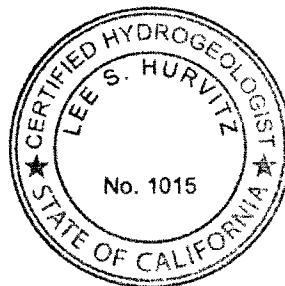
Hurvitz Environmental Services, Inc. (HES) is pleased to submit this Hydrogeologic Assessment Report (HAR) for the above referenced property. HES prepared this HAR in accordance with the Mendocino City Community Services District (MCCSD) Groundwater Extraction Ordinance No. 2020-01. The purpose of this HAR was to evaluate the groundwater conditions at the site, which consisted of a Franciscan Complex aquifer, and to determine if an increase to the Site's groundwater usage would create an aquifer overdraft, or cause "adverse" conditions to the nearby wells.

Based on the findings of this report, pumping and groundwater extraction from the existing Site Well, at an annual rate of 0.25gpm, or 360 gallons/day, is unlikely to result in significant declines in groundwater resources over time, and is not expected to have an adverse impact on neighboring wells.

We appreciate the opportunity to provide you with these services. Please do not hesitate to contact us at your convenience, should have any questions or comments regarding this report or our recommendations.

Sincerely,  
HURVITZ ENVIRONMENTAL SERVICES, INC

  
Lee S. Hurvitz, PG# 7573 CHG #1015  
Certified Hydrogeologist



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<b>PLATE 3</b>	<b>USGS TOPOGRAPHIC MAP</b>
<b>PLATE 4</b>	<b>SITE PLAN – WELL LOCATIONS</b>
<b>PLATE 5</b>	<b>GEOLOGIC MAP</b>

## **APPENDICES**

<b>APPENDIX A</b>	<b>PHOTOGRAPHIC LOG</b>
<b>APPENDIX B</b>	<b>PROOF OF PUBLICATION</b>
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## 1.0 INTRODUCTION AND SCOPE OF SERVICES

The property located at 44780 Little Lake Road in Mendocino, California (the Site) is requesting an increase to its current daily groundwater allotment of 260-gallons per day. We understand that the property owner, Ms. Lisa Clifton-Bumpass, would like to increase the parcels' groundwater allotment to allow for the development of a residential 2-bay garage with a non-commercial residential guest cottage above the garage. MCCSD Ordinance No. 2021-01 states that property owners that want to have a change in property use, or an expansion of existing use, must perform a hydrological study to demonstrate that adequate water resources are available and that the increase in groundwater use will not adversely impact neighboring wells. The Mendocino City Community Services District (MCCSD) defines an adverse effect as a drawdown of 10% or more of the available water in a well casing. Procedures for proving adequate groundwater resources must include a 72- aquifer pump test, a 24-hour pre-test assessment, and aquifer recovery analysis. The assessment should also consider the local geology and hydrology, groundwater overdraft, potential impacts from the proposed increase in groundwater extraction, and the cumulative effects to hydrologically contiguous wells.

Therefore, on behalf of Ms. Clifton-Bumpass, Hurvitz Environmental Services (HES) conducted a 72-hour well pumping test and Hydrogeologic Assessment for the Site in accordance with the MCCSD Groundwater Extraction Ordinance No. 2020-01. This groundwater assessment and report includes the following elements:

- Characterization of local hydrogeologic conditions within the Site watershed and sub-basin.
- Compilation of Well Completion Reports (drillers' logs) from the area.
- Performance of a 72-hour, dry-season well yield test, and recovery analysis.
- Calculations for the aquifer transmissivity, storativity, specific capacity, the radius of pumping influence, and the long-term drawdown effects from pumping.
- Estimates of annual groundwater storage and recharge relative to existing and proposed groundwater uses.
- Assess potential for well interference between the project well and neighboring wells.
- Estimates on the cumulative impact to near-site wells based on existing groundwater allotments and previous groundwater studies.
- Assessment of aquifer during drought conditions.

## 2.0 ESTIMATED WATER ALLOTMENT

We understand the Parcel has a current daily water allotment of 260-gallons/day which is equivalent to 0.18 gallons per minute (gpm) pumped continuously. The Parcel's allotment is based on the existing property improvements which consist of a 2-story, 3-bedroom, single family residence, and two small non-occupied outbuildings. In order for Ms. Clifton-Bumpass to develop the proposed 2-bay garage with non-commercial residential guest cottage above the garage, she will need to prove an additional 100-gallons/day or 0.07 gpm. Therefore, the total minimum water allotment required for the Site, including the proposed development, is 360 gallons/day or 0.25 gpm. Since the MCCSD ordinance requires that you prove at least 2.5 times the water needed, the minimum well testing rate needed to prove adequate water resources would be 0.63 gpm which is equal to ~900 gallons/day.

The Site's current water allotment (0.18 gpm) is derived entirely from a 105-foot-deep, PVC cased well (Site Well) installed into a fractured bedrock aquifer. This well has not been previously tested for long term yield, or assessed for potential cumulative impacts to neighbors. However, short-term testing conducted in 2023 suggested that the Site Well could produce ~9gpm without an undesirable drawdown<sup>1</sup>. The Site Well was also used as an observation well for a 2006 hydrogeologic study on an adjacent parcel and no adverse effects were observed<sup>2</sup>. During our well testing, the Site Well was pumped at a constant rate of 1.39 gpm which equates to an allowable usage rate of 0.56 gpm (1.39 gpm/2.5) or 806 gallons/day, which is significantly more than the property owner needs for the proposed development.

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<sup>1</sup> Superior Pump and Drilling Company, Water Quantity Report, 44780 Little Lake Road, Mendocino CA, July 26, 2023.

<sup>2</sup> Pacific Geosciences, Wilson Hydrological Study, 44701 Little Lake Road, Mendocino, CA, October 19, 2006.

### 3.0 SITE DESCRIPTION & HYDROGEOLOGIC SETTING

The Site is located at 44780 Little Lake Road in Mendocino, California, within an unincorporated, commercial, and residential community located approximately 0.5 miles northeast of Mendocino Bay, and 0.8 miles east of the Pacific Ocean, (**Plate 1 – Site Location Map**). The Site is further identified as Assessor’s Parcel No. (APN) 119-140-16 (**Plate 2 – Assessor Parcel Map**). The generally rectangular shaped parcel is approximately 0.79 acres, is zoned as rural residential (MRR), and is located on the northeast corner of Little Lake Road and State Highway 1. The Site improvements include an approximately 1,384 ft<sup>2</sup> two-story residence located near the southwest property boundary and two (2) small shed structures of 150 ft<sup>2</sup> or less. Besides the residence and small sheds, the rest of the Site is unpaved with minor landscaping, and gravel/dirt pathways. The Site is also developed with one groundwater well. The Site Well is located north of the residence and near the center of the parcel. The well is constructed with 6-inch PVC casing to a total depth of 105 feet below grade (bg). Site Well construction details are presented in **Table 1 – Well Inventory**, and a discussion on the aquifer characteristics is presented in Section 3.2 of this Assessment Report. Photographs are presented in **Appendix A**.

Land use surrounding the Site to the north, east, and south, consists of residential developments, with the exception of the Mendocino Fire Department located there (3) parcels to the north. State Highway 1 and commercial lodging facilities are located immediately west of the Site.

#### 3.1 USGS 7.5 MINUTE QUADRANGLE MAP

HES reviewed the most recent United States Geological Survey (USGS) 7.5-minute Quadrangle Map, 2015 Mendocino, California (**Plate 3 – USGS Topographic Map**). The Site topography is generally flat with gradual slopes to the northeast and southwest, and elevations between 185 and 195 feet above mean sea level (MSL). The Site Well is located at an elevation of approximately 193 feet above MSL. A sub-watershed divide bisects the property with surface water on the southern portion of the Site draining south towards Big River, and surface water on center and northern portions of the Site draining northerly towards Slaughterhouse Gulch. The Site Well is located just north of the sub-watershed divide and within the Hare Creek – Frontal Pacific Ocean Sub-Watershed (HUC 12- 180101080703).

#### 3.2 GEOLOGY AND HYDROLOGY

The Site is located in the Department of Water Resources (DWR) designated very low priority Fort Bragg Terrace Area Groundwater Basin (1-021)<sup>3</sup>. The Site is also primarily within the Hare Creek – Frontal Pacific Ocean Sub-Watershed (HUC 12- 180101080703) with a small southern portion located within the Little River Frontal Pacific Ocean Sub-Watershed (HUC 12- 180101080803).

The hydrogeology of the groundwater basins in this area can generally be broken into two categories: the first water bearing zone/aquifer of near surface (from approximately 0-50 feet below ground surface, bgs) sediments consisting primarily of Marine Terrace Deposits, and the Franciscan Complex bedrock (from approximately 0-30,000 feet bgs) aquifer consisting of fractured (variably) greywacke

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<sup>3</sup> <https://gis.water.ca.gov/app/bp-dashboard/final/>

sandstone and turbidite sandstone (often called shale by drillers) sequences, with localized serpentinite. The Marine Terrace Deposits have a wide range of reported yields (1-100 gpm) and the Franciscan Complex bedrock aquifer yields very low to low in the range of 0.1-10 gpm.

Shallow groundwater near the Site, is accessed through wells installed within the Terrace Deposits. Groundwater infiltrates through the generally permeable Terrace Deposits and becomes “perched” on the generally impermeable Franciscan Complex bedrock. The Terrace Deposits aquifer is considered unconfined with recharge primarily occurring from infiltration of precipitation and to a lesser extent from subsurface inflow through fractures in the Franciscan Complex bedrock. Groundwater flow is generally west in the direction of the topographic slope and the inclined surface of the Terrace Deposits. Based on review of drillers logs located proximate to the Site, the Terrace Deposits are generally 25 feet thick or less.

Deeper groundwater at, and near the Site, is accessed through drilled wells within the Franciscan Complex and extend to an average of ~174 feet (bgs). The Site Well is a Franciscan aquifer well that was installed in 1977 to a total depth of 105 feet bgs. The well is constructed with a blank casing to 21 feet bgs, and had a measured static water level at 65 bgs at the time of installation. The well drillers log indicates that subsurface conditions consisted of rocky material beginning between 15-38 feet bgs and continuing to the total depth of 105 feet bgs. This suggests that the Site Well is screened entirely, or primarily, within the Franciscan Complex.

Fractured rock aquifers are distinct from groundwater systems which are hosted in sedimentary deposits. While sedimentary aquifers store and transmit water through pore spaces between individual sediment granules, fractured rock aquifers store and transmit water through crevices, joints and fractures in an otherwise impervious rock mass. As a result, fractured rock aquifers exhibit hydraulic characteristics which are distinct from those observed in sedimentary aquifer systems with water availability (commonly observed in terms of bore yield) generally dependent on the nature (number, size and extent) of discontinuities in the rock mass and their degree of interconnection. This means the long-term yield available from bores screened in fractured rock aquifers is generally dependent on the localized extent and interconnection of discontinuities in the overall rock masses rather than permeability of the geological materials in the immediate vicinity of the extraction point. Geologic faulting and fracturing can also create highly variable groundwater conditions and can create secondary permeability in otherwise low yielding water bearing units.

Fractured rock aquifers may also exhibit different recharge characteristics to other aquifer types, particularly unconfined aquifers. In addition, due to the age of the geological units forming fractured rock aquifers (typically pre-Tertiary age) extensive weathering commonly occurs along the upper surface of the rock mass. This weathering commonly results in the alteration of the rock materials to form clay minerals which inhibit the vertical movement of water. Permeability in fractured rock aquifers may also be reduced with depth due to the progressive reduction in open space along joints and fractures due to the weight of the overlying rock mass.

#### 4.0 PERFORMANCE OF PUMP TEST

The following section is a description of the purpose and methodologies used to conduct the dry-season 72-hour well test and recovery analysis, as well as a description of the observation wells used during the testing.

The purpose of the aquifer testing was to determine if there was an adequate groundwater discharge from the Site Well to allow for an increase of at least 100-gallons per day (0.07 gpm) to the parcels existing water allotment (260 gallons/day or 0.18 gpm). This would bring the Sites total allotment up to 360 gallons/day or 0.25 gpm. The MCCSD ordinance requires that the applicant prove the well can sustain at least 2.5 times the water rate needed, therefore the minimum well testing rate needed to prove adequate water resources would be 0.63 gpm. For this study the Site Well was pumped at a constant rate of 1.39 gpm. This testing flow rate was selected due to the strong well performance in a previous short duration test, and to avoid damaging the pump with extended “dead-head” back pressure which can be caused by restricting the flow below 1 gpm. Pumping at the testing rate of 1.39 gpm would produce ~2,000 gal/day which would give the Site a potential allotment of ~800 gallons/day or 0.56 gpm.

Prior to the testing, and in accordance with requirements of the Ordinance, MCCSD notified the adjacent property owners, in certified letters, that an aquifer-pumping test would be performed at the subject property beginning on November 11, 2024. A Notice of Aquifer Test was posted on the property ten days before the start of the test. Notices were posted at MCCSD’s office, the Mendocino Fire House, and the Mendocino Post Office. In addition, MCCSD published a notice of the test in the Mendocino Beacon on October 24, 2024. Proof of Publication and Notice of Aquifer Test are presented in **Appendix B**.

As a result of the MCCSD notifications, a total of four (4) near-site wells were monitored, as part of the Site Well testing procedures. In addition to the four (4) wells that were monitored, we identified additional near-site wells that either declined or did not respond to the MCCSD Notification. An inventory and description of the four (4) observation wells, and the additional near-site wells are presented in **Table 1 – Well Inventory**. Locations of the Site Wells and near-Site wells are also shown on **Plate 3 - Site Plan - Well Locations**, Well Completion Reports and the previous Site Well pumping results are presented in **Appendix C – Well Completion Reports**.

**TABLE 1 – WELL INVENTORY**

APN/ WCR Number	Well install/ Test Year	Distance to Site Well (feet)	Surface Elevation (feet, msl)	Total Well Depth (feet)	Screen Interval/ (feet)	Total Screen Thickness (feet)	Well Yield (gpm)	Draw- down (feet)	Specific Capacity (gpm/ft)	Well Map #
119-140-16/ #126038	1977	0	192	105	21-105	84	1.39	3.36	0.41	Site Well
119-140-17/ #419965	1994	150	195	160	20-160	140	1.3	120	0.011	Hansen Well
119-520-UA/ #211197	1990	305	188	248	46-66 126-146 166-186 206-246	100	4	215	0.019	HR-13
119-520-UA/ NA	1984	595	190	22	12.5- 19.5	7	NA	NA	NA	HR-11
119-520-UA/ NA	1976	675	190	19	11-19	8	NA	NA	NA	HR-4
119-140-13/ 119039	1977	300	177	139	39-79 99-139	80	0.87	120	0.007	#1
119-140-24/ 004064	2023	500	175	123	23-123	100	21	108	0.194	#2
119-140-23/ 0929631	2006	500	203	220	80-220	140	1.5	150	0.01	#3
119-140-23/ 0931978	2006	525	202	160	25-160	135	1	137	0.007	#4
119-150-05 / 703035	2005	590	180	240	50-240	190	1.5	224	0.007	#5
Average Franciscan Well Total Depth = 174.4 ft. Average Terrace Deposit Well Depth = 20.5 ft.				Average Screen Thickness (Franciscan wells) = 121.1 Feet			Average SC (Franciscan Wells) = 0.08gpm/ft			

**Table 1** indicates that the average depth of the Terrace Deposit wells (HR-11, and HR-4) is 20.5 feet and the average depth of the near-site Franciscan aquifer wells is 174.4 feet bgs. The average screen interval for the Franciscan wells is 121.1 feet, and the average specific capacity is 0.08 gpm/ft drawdown. The wells identified on **Table 1** as Hansen Well, HR-13, HR-11 and HR-4, were used as observation wells during the testing of the Site Well. Observation Wells HR-4, and HR-11 are installed entirely within the Terrace Deposits, and the Hansen Well, and HR-13 are installed within the Franciscan aquifer.

Observation Well HR-4 (APN: 119-520-UA) is 19 feet deep, and is located 675 feet northeast of the Site Well, and observation well HR-13 (APN 119-520-UA) is 22 feet deep and located 595 feet northeast of the Site Well. These two wells are part of the Hills Ranch subdivision water supply, and are utilized along with other wells for a ~50-unit residential housing subdivision located adjacent to the Site.

Observation Well Hansen Well (APN: 119-140-17) is 160 feet deep, located 150 feet northeast of the Site Well, and is a private domestic well used to supply a single-family residence. This was the closest well to the Site Well. Observation Well HR-13 (APN: 119-520-UA) is 248 ft. deep, is located 305 feet

northeast of the Site Well, and is also part of the Hills Ranch Subdivisions water supply system. The locations of these test wells are shown on **Plate 3 - Site Plan - Well Locations**.

On the morning of November 10, 2024, HES installed Solinist Levelloggers in all four (4) near-site observation wells (Hansen Well, HR-13, HR-11, HR-4), and the Site Well, to begin the 24-hour pretest monitoring of water levels. No pumping was performed from any of the observation wells during the pre-test period and the wells remained unused throughout the duration of the aquifer testing, including the recovery period. However, observation well HR-13 was pumping up until the datalogger was installed and significant aquifer recovery was observed in the pretest data.

Starting at 1:15 pm on November 11, 2024, HES began pumping the Site Well using the existing ¾-HP submersible pump set at approximately 100 feet bgs. Prior to initiating the aquifer testing onsite we measured the static water level in the Site Well #1 at 23.94 feet bgs. To begin the test, the well was pumped at approximately 2-2.5 gpm for 5-minutes to allow for some well drawdown and casing storage removal before setting the test pumping rate of 1.39 gpm. Drawdown in the testing well and observation wells were measured using Solinist Levelloggers and were also periodically checked with a Solinist Depth to Water meter. Well discharge rates were measured from the Site Well using a Badger M-25 totalizing flow meter and controlled with a ball valve installed on the well discharge lines. Water discharged from the Site Well was initially directed to the neighbors 1,000-gallon holding tank (Hansens Site – APN: 119-140-17) before being transferred to the sewer cleanout located near the southwest corner of the Site parcel. The well pumping continued for 72 hours before recovery analysis was performed. Well recovery data was collected for 24-hours from the Site Well, as well as from all four (4) observation wells (Hansen Well, HR-13, HR-11, HR-4). The testing data from the Site Well, and the four (4) observation wells is presented in **Appendix D – Well Testing Data and Graphs**.

## 5.0 PUMP TEST DATA ANALYSIS

HES evaluated the results of the aquifer tests to determine the aquifer characteristics and evaluate the potential for well interference and adverse effects to the local aquifers. This included calculations for aquifer transmissivity, storativity, specific capacity, the radius of pumping influence, and the measured and predicted drawdown from the proposed pumping at the Site.

### 5.1 TEST RESULTS - SITE WELL

A total of 6,020 gallons was pumped from the Site Well during the 72-hours of pumping. The Site Well produced an average of 1.39 gpm throughout the 72-hour test with a total drawdown of 3.36 feet (~4% of the water column). However, during the 24-hour Pre-test a slight increase in the water level occurred with a total water level rise of 0.26 ft. being recorded. This is attributed to the stopping of the pump in Well HR-13 immediately before the 24-hour Pre-test. During the Site Well test, water levels showed the biggest decrease in the first 6-hours and then began to slowly decrease at a fairly steady rate for the remainder of the test. This may be an indication that the well bore storage was being depleted during the first 6-hours and after that water was being supplied from the aquifer only. Well recovery data collected after the pumping of the Site Well indicated that the static water level had recovered to 84% of initial static levels within 24-hours. The limited aquifer drawdown and observed recovery rate suggest that no aquifer overdraft occurred. The flow rates, the total drawdown recorded, and recovery statistics are presented on **Table 2 – Pumping Well Data**. The tabulated well testing data is presented in **Appendix D – Well Testing Data and Graphs**.

**TABLE 2 – PUMPING WELL DATA**

Well ID / Pumping Rate	Total Well Depth	Depth to Static Water	Total Water Column	72-hour Drawdown	24-hr Recovery	Drawdown as % of Water Column	Recovery as % of Static Water Level
-----feet-----							
Site Well 1.39 gpm	105	23.94	81.04	3.36	2.81	4%	84%

### 5.2 TEST RESULTS – OBSERVATION WELLS

A total of four (4) observation wells were used during testing. Two (2) of the observation wells were shallow Terrace Deposit wells (HR-4 and HR-11) and two (2) of the observation wells were deep Franciscan aquifer wells (Hansen Well and HR-13). The observation HR-13 was pumping up until 30-minutes before we installed the Levelloggers for the 24-hour pre-test monitoring. We understand that this well is frequently pumped along with the several other wells in the vicinity, to support a ~50-unit residential subdivision called the Hills Ranch. As part of this study the Hills Ranch Board agreed to stop pumping the wells HR-4, HR-11 and HR-13 for the entire 5-day test which included the 24-hour pre-test and 24-recovery period. It is likely that this pause in groundwater pumping represents the longest time that these three wells have been shut down in conjunction in the recent past.

Review of the datalogger files from the Observation Wells showed a significant water level rise immediately after the dataloggers were installed, and a continued slow rise for the next several days.



This type of water level curve is considered typical of an aquifer recovery, and is interpreted to be the result of Well HR-13 being shut down for a sustained period of time immediately before the start of the Site Well test. At the start of the Site Well testing, the static water level in the Hansen Well was measured at 27.45 ft. bg, and at 26.05 ft. bg in Well HR-13. This indicated that there was 132.55 feet of well casing volume available for drawdown in the Hansen Well, and 221.95 ft. of well casing volume in HR-13. The static water level in the Terrace Deposit wells were measured at 7.95 ft. bg (HR-4) and 6.46 ft. bg (HR-11). This indicated that Well HR-4 had 11.05 ft. of water available for drawdown, and Well HR-11 had 15.54 ft. of water available for drawdown

During the 24-hour Pre-test, the dataloggers recorded a water level increase of 14.35 feet in the Hansen Well and 68.95 ft. in the Well HR-13. During the 72-hour pumping of the Site Well, the water levels in the Hansen Well continued to increase by 4.03ft. and water levels in Well HR-13 continued to increase by 5.98 ft. Data collected from the observation wells during the 24 -hour well recovery period also showed a slight increase in water levels, with water levels in the Hansen Well increasing 0.77 ft, and Well HR-13 increasing 0.70 ft. The water level increases observed in these two Franciscan aquifer wells is attributed to the turning off of the wells at the Hills Ranch Subdivision (HR-4, HR-11, HR-13) The drawdown and recovery data for the observation wells are presented on **Table 3 – Observation Well Data**, and the tabulated well testing data and graphical representations are presented In **Appendix D – Well Testing Data and Graphs**.

During the 24-hour Pre-test, the dataloggers recorded a water level increase of 1.45 ft in Well HR-4. and HR-11 recorded a water level increase of 2.24 ft. During the 72-hour pumping of the Site Well, water levels in Well HR-4 continued to increase by 0.99 ft. and water levels in Well HR-11 continued to increase by 0.97 ft. The data collected from the observation wells during the 24 -hour well recovery period continued to show an increase in water levels with well HR-4 increasing 0.34 ft., and Well HR-11 increasing 0.28 ft. The water level increases observed in these two observation wells was also attributed to the turning off of the wells at the Hills Ranch Subdivision.

The total annual rainfall (July 1 – Nov 10) in Mendocino prior to starting the test was 2.93-inches, which includes 0.76-inches of rain falling the day before testing began on November 10. An additional 0.83-inches of rain fell during well testing (November 11–14), bringing the annual total to 3.76-inches by the end of the well testing. This is below the MCCSD dry season well testing cut-off of 6-inches of rainfall. While the 1.59-inches of rain that fell immediately before and during the Site Well testing may have had a small effect on water levels in the shallow Terrace Deposit wells, it is not considered to have been a factor in the significant water levels rises measured in all the Observation Wells.

**TABLE 3 – OBSERVATION WELL DATA**

Well ID	Total Well Depth	Depth to Static Water	Total Water Column	24-hour Pre-test Drawdown	72-hr Test Drawdown	24-hr Recovery	72-hr Test Drawdown as % of Water Column
HR-4	19	7.95	11.05	+1.45	+0.99	+0.34	<b>0%</b>
HR-11	22	6.46	15.54	+2.24	+0.97	+0.28	<b>0%</b>
HR-13	248	27.45	221.95	+68.95	+5.98	+0.70	<b>0%</b>
Hansen Well	160	26.05	132.55	+14.35	+4.93	+0.77	<b>0%</b>

When plotted against time, the changes in water levels measured in the Observation Wells generally track with the recovery of well HR-13, and therefore the effect on the Observation Wells from pumping the Site Well was skewed from the recovery of well HR-13. However, since the total drawdown recorded in the Site Well was only 3.36 feet, which is less than 3% of the available water column in the Hansen Well, and less than 2% of the available water column in Well HR-13, no potential adverse effect on these wells would be anticipated. While the drawdown in the test well was greater than 10% of the available water in the shallow Terrace Deposit wells (HR-14 and HR-1) those wells are ~600-700 feet from the Site Well, screened within a different aquifer, and not expected to be beyond the 72-hour radius of pumping influence from the Site Well (See Section 5.6). Therefore, the testing results demonstrate that there would be no adverse effects expected on any of the near site Observation Wells monitored. Calculations for the predicted drawdown in these wells over time is presented in Section 5.8, **Table 5 – Predicted Drawdown over Time.**

### 5.3 SPECIFIC CAPACITY

Specific Capacity (SC) is the measure of the constant flow rate recorded during a pumping test, divided by the amount of stabilized drawdown observed during the test. The SC values are expressed in gpm/foot of drawdown, and can be a measure of a well’s sustainable yield. Static water level in the pumping well (Site Well) at the beginning of testing was 23.94 feet bgs and stabilized at 27.3 feet bgs (3.36 ft. drawdown), which resulted in a specific capacity of 0.41 gpm/foot of drawdown (i.e., 1.39 gpm/3.36 ft). The well yield test data and calculations for the Site Well is attached in **APPENDIX D.**

Specific Capacity can be used to predict the potential maximum well yield by multiplying the SC by the amount of available well drawdown. If we assume that 66% of well drawdown is the maximum allowable drawdown, then we can calculate the maximum discharge rate of the Site Well as shown below.

$$0.41 \text{ gpm/ft drawdown (SC of Site Well)} \times 54.8 \text{ ft (66\% of available drawdown)} = \underline{\underline{22.47 \text{ gpm} = \text{Maximum Potential Yield for Site Well}}}$$

Given the nature of fractured rock aquifers, as discussed in Section 3.2 of this report, it is considered unlikely that the Site Well could produce these theoretical volumes for a sustained period of time. However, the Site Well has previously been demonstrated to produce 9.5 gpm with ~30 feet of

drawdown during a 4-hour yield test<sup>4</sup> which would equate to a SC value of 0.31 gpm/foot, and a maximum pumping rate of 17 gpm. Therefore, it appears that the Site Well could theoretically produce a maximum yield between 17-22 gpm.

#### 5.4 TRANSMISSIVITY AND HYDRAULIC CONDUCTIVITY

Aquifer Transmissivity (T) refers to the ability of an aquifer to transmit water horizontally through its entire thickness. It quantifies how much water can flow through a unit width of the aquifer over a unit time, under a unit hydraulic gradient. To obtain the aquifer transmissivity from the aquifer beneath the Site, we plotted the time-drawdown data from the Site Well on semi-logarithmic paper to get the slope of the drawdown curve, as shown in **Appendix D**. The data from the pumping phase of the tests were used for the curve fitting, although more weight was given to the later stages of pumping because this period was considered more representative of longer-term pumping.

The T value calculated from the pumping drawdown curve was 282.28 gpd/ft and T value calculated from the recovery curve was 447.51 gpd/ft. Therefore, using analysis from the pumping well curve, and assuming generally homogeneous conditions for the Site Well aquifer, we calculated the following aquifer Transmissivity using the following equation<sup>5</sup>:

$$T = 264 (Q)/\Delta s$$

$$T = 264 (1.39 \text{ gpm}) / 1.3 \text{ feet (from Appendix D – pumping drawdown curve)}$$

$$T = \underline{\underline{282.28 \text{ g/ft/day} = \text{Aquifer Transmissivity for Site Well}}}$$

Based on the relationship between T and Hydraulic Conductivity (K) we can calculate the aquifers K value using the following relationships and equations<sup>5</sup>:

$$K = T/D \text{ (Aquifer Thickness)}$$

$$K = 282.28 \text{ g/ft/day (transmissivity from Site Well)} / 121.1 \text{ ft (avg. Franciscan well screen)} = \underline{\underline{2.33 \text{ gpd/ft}^2 = \text{Aquifer Hydraulic Conductivity for Site Well}}}$$

#### 5.5 STORATIVITY

Aquifer storativity (S) (also known as **storage coefficient**) is a dimensionless parameter that represents the amount of water an aquifer can store and release per unit area when subjected to changes in hydraulic head. Storativity helps in quantifying how much water can be stored in an aquifer, and it plays a key role in aquifer tests to estimate the size of the cone of depression, and to calculate drawdown over time. Storativity is typically calculated using the Theis equation and relies on drawdown data from an observation well to be calculated accurately. Since there was no observed drawdown in any of the observation wells during this test, the storage coefficient could not be calculated from the well test results. However, there have been several hydrology studies performed in the immediate vicinity of the Site, and several have presented storativity calculations for the Franciscan aquifer as shown on **Table 4 – Storativity Values**.

**TABLE 4 – STORATIVITY VALUES**

<sup>4</sup> Superior Pump and Drilling Company, Water Quantity Report, 44780 Little Lake Road, Mendocino CA, July 26, 2023.

<sup>5</sup> Groundwater and Wells, Second Edition, Fletcher G. Driscoll, 1986, published by Johnson Division, St. Paul Minnesota, 1089p.

Location	Report Date	Report Author	Distance/Direction to Site Well	Storativity
44658 Little Lake Rd	09/2004	Questa Engineering	1,000-ft / Northeast	0.0036
10550 Lansing St	10/2024	Hurvitz Environmental	1,350-ft / Southwest	0.0016
10475 Hills Rd	10/2005	Pacific Geoscience	1550-ft / Southeast	0.0004
44556 Little Lake Rd	01/2016	Lawrence and Associates	1,650-ft/ East-Northeast	0.0013
44521 Little Lake Rd	10/1999	Clark Engineering	1,650-ft / East	0.0011
<b>Average Storativity = 0.0016</b>				

Since it was determined that no drawdown occurred in the observation wells during the pumping of the Site Well, the average storativity value (0.0016) obtained from five (5) Franciscan aquifer tests performed within 0.31 miles of the Site was used for our future calculations involving storativity.

## 5.6 RADIUS OF PUMPING INFLUENCE

To evaluate potential well pumping impacts to wells on other properties, the predicted lateral extent of pumping from the Site Well was estimated. An approximate relationship between specific capacity calculated from the pumping test, and aquifer transmissivity was used to obtain aquifer characteristics and estimate a potential radius of pumping influence. Using this method, transmissivity was estimated for an unconfined aquifer, using the relationship of Specific Capacity (yield/drawdown) x the coefficient of 1,500 (unconfined)<sup>6</sup>. To develop the slope of the drawdown curve from the pumping well, the value of  $\Delta s$  (drawdown over one log graph cycle) was calculated for a distance-drawdown relationship, where  $T = 528Q/\Delta s$ . The analysis is shown on the attached semi-log plot in **Appendix E – Radius of Pumping Influence**. As estimated, pumping the Site Well at 1.39 gpm, with a drawdown of 3.36-feet, indicates a zone of pumping influence extending approximately 200-feet from the well.

The radius of pumping influence can also be calculated using the Theis Solution<sup>7</sup> and solving for distance. Given the transmissivity calculated from the pumping test (282.28gpd/ft), the average storativity from near site aquifer tests (0.0016), the pumping rate (1.39gpm), and a potential drawdown of 0.1ft, we can solve for the expected radius of influence from pumping the Site Well for 3-days. Results are show on **Table 5 – Radius of Pumping Influence**

<sup>6</sup> Equation 9.11, Groundwater and Wells, Second Edition, Fletcher G. Driscoll, 1986, published by Johnson Division, St. Paul Minnesota, 1089p.

<sup>7</sup><https://www.ose.nm.gov/Hydrology/Theis/index.html>.

**TABLE 5 – RADIUS OF PUMPING INFLUENCE (72-hour)**

Well ID	Pumping Rate	Radius of Pumping Influence (Graphical)	Radius of Pumping Influence (Theis Solution)
	gpm	-----feet-----	
Site Well	1.39	200	565

The results from the graphical radius of influence assessment are generally considered less accurate than the Theis Solution since they rely on theoretical relationships between specific capacity and transmissivity. However, the actual 3-day radius of influence can be reasonably assumed as being between 200 and 565 feet from the pumping well.

**5.7 WELL EFFICIENCY**

Well efficiency is a measure of how effectively a well can deliver water compared to the theoretical or ideal performance of the aquifer. It is expressed as the ratio of the actual drawdown (what is measured in the aquifer near the well) to the observed drawdown (what is measured inside the well itself) during pumping. Well efficiency reflects how much of the drawdown is due to aquifer characteristics and how much is due to well-related factors such as well design, well screen, and well construction.

Pumping well efficiency could not be calculated for the Site Well since the observation wells showed no drawdown.

**5.8 LONG TERM PUMPING AFFECTS**

To calculate the predicted drawdown in the observation wells over a 3-day, 90-day and 180-day time period we used the Theis solution<sup>8</sup>. To use this method, we relied on the previously estimated storativity value (0.0016) for the Franciscan aquifer, the aquifer transmissivity calculated from the Site Well test, the distances to the observation wells, time, and the estimated pumping rate. Also, for this long-term assessment of drawdown, we used an estimated pumping rate of 0.25 gpm for the Site Well. This is the pumping rate that the Site is requesting to use, which includes the future development. The results of the calculations for each of the observation wells are tabulated below on **Table 6 – Predicted Drawdown Over Time**.

**TABLE 6 – PREDICTED DRAWDOWN OVER TIME**

Well ID	Distance to Pumped Well	Pumping Rate	Available Water Column	Drawdown at 3-days	Drawdown at 90-days	Drawdown at 180-days	Total Predicted Effect (180-days)
	feet	gpm	-----feet-----				%
Hansen Well	150	0.25	116.45	0.21	0.54	0.614	0.5%
HR-13	305	0.25	221.95	0.085	0.401	0.470	0.2%
HR-11	595	0.25	15.54	0.014	0.268	0.336	2.16%
HR-4	675	0.25	11.05	0.008	0.244	0.311	2.81%

<sup>8</sup> <https://www.ose.nm.gov/Hydrology/Theis/index.html>

MCCSD Ordinance No. 2021-01 defines an adverse effect as greater than 10 percent drawdown in the Observation Wells. Predicted drawdowns for the three time periods ranged from 0.008 to 0.614 feet. None of the predicted drawdowns exceeded 10 percent of the available drawdown, therefore, no adverse effects to water levels would be expected after 90 or 180-days of pumping the Site Well.

## 6.0 CUMULATIVE IMPACTS

In order to evaluate the potential cumulative impacts to near-site wells HES reviewed previous hydrogeological studies performed for properties proximate to the Site. These included: 1) The 2016 Lawrence and Associates Hydrologic Study of the Grinberg property located at 44556 Little Lake Road, 2) The 2006, Pacific Geoscience study of the Wilson Property located at 44701 Little Lake Road, 3) The 2006, Pacific Geoscience study of the Skaarup Property located at 44580 Little Lake Road, 4) The 2004, Questa Engineering study of the Wardlaw Property located at 44658 Little Lake Road (See section 9.0-References). These four (4) hydrogeologic studies represent the closest assessments to the subject property and had observation wells that could be considered to be within the long-term radius of influence of the Site Well.

### 6.1 44556 LITTLE LAKE ROAD – GRINBERG PROPERTY

This property is located approximately 1,600 ft to the east/northeast of the Site. The well testing was done in 2016 to support the development of a 4-bedroom residence on the previously vacant parcel. The water allotment needed for development was 320 gallons/day and the testing was performed on one of the properties three wells. The tested well (307/PW-1) was 220 feet deep. Two (2) offsite wells and one (1) of the onsite wells were used for observation wells. No adverse impact to the observation wells were recorded during this testing. However, modeling of drawdown at Well OB-4 showed a potential for a 10% drawdown after 180 days of pumping (as shown on **Table 7– Cumulative Aquifer Effects**).

Well OB-4 is located over 1,800 feet from our Site Well and all of the observation wells used for this study are considered to be outside the 3-day radius of pumping influence (200-565 feet) for the Site Well that was pumped during our 2024 study. During the 2016 testing at the Grinberg Property it is assumed that our Site Well was operating normally at 0.18 gpm, and therefore, to calculate potential impacts to the Grinberg Study wells from an increase at our study's Site Well, HES only used the 0.07 gpm increase that the Site is requesting. So, modeling of the addition of 0.07 gpm at the Site Well using the Theis solution, we calculated an additional drawdown in well OB-4 of 0.04 ft after 180 days of pumping. This drawdown is approximately 0.4% of the available water column at that location and is generally considered de minimis. The Grinberg Property observation wells, and their predicted cumulative drawdowns are shown on **Table 7 – Cumulative Aquifer Effects**.

### 6.2 44701 LITTLE LAKE ROAD ASSESSMENT – WILSON PROPERTY

This site is located on the south side of Little Lake Road and southeast of the subject Site. The well testing was done in 2006 to support the subdivision of the parcel and allow for the development of a second residential dwelling. The water allotment needed for development was 225 gallons/day and the testing was performed on one of the properties two wells. The well tested at this property (W-P) was 220 feet deep, and the offsite observation wells were 549-feet and 554-feet from the test well. The offsite observation wells used for this study included the Site Well that was pumped during our 2024 study, and the Hansen Well which was used as an observation well in our 2024 study. The results of the Wilson property Assessment indicated that no drawdown was observed in either observation well during the pumping of the test well, and that the water levels in the Hansen Well were partially affected by pumping from a nearby shallow well. This fluctuation in response to nearby pumping was also seen during our study as the Hills Ranch well HR-13 is located only 165 feet from the Hansen well.

The predicted 180-day drawdown in both observation wells used for the Wilson property study, was 0.06 feet. If we add the predicted 0.06 feet of drawdown for the Harsen Well to the calculated 0.614 feet calculated from pumping at our study Site Well, we get a cumulative drawdown of 0.674 feet which is less than 1% of the available water column. The Wilson Property observation wells, and their predicted cumulative drawdowns are shown on **Table 7 – Cumulative Aquifer Effects**.

### **6.3 44580 LITTLE LAKE ROAD ASSESSMENT – SKAARUP PROPERTY**

This site is located on the north side of Little Lake Road and east of the subject Site. The well testing was done to prove adequate water supply for the development of a single-family home and guest cottage. The water allotment needed for development was 530 gallons/day or 0.39gpm. The tested well (S-P) was 140 feet deep and the three (3) offsite observation wells located between 80 and 765 feet from the test well were monitored. No adverse effects to the observation wells were measured during the pumping of the test well and the long-term pumping effects were also deemed to be insignificant.

All of the observation wells used for the Skaarup property study are considered to be outside the 3-day pumping radius of influence for our study Site Well. In addition, our study Site Well was operating normally during the 2006 Skaarup property testing and therefore, the only water use increase needed for the cumulative assessment is the 0.07 gpm or 100 gal/day. Modeling the addition of 0.07 gpm from pumping at our Site Well using the Theis solution, we calculated an additional drawdown between 0.03 and 0.06 feet at the observation wells. These drawdowns are considered de minimis and when combined with the previously calculated drawdowns from the test well, the cumulative effect is between 0.1 and 8%. Therefore, no adverse cumulative impact to these observation wells is anticipated. The Skaarup Property observation wells, and their predicted cumulative drawdowns are shown on **Table 7 – Cumulative Aquifer Effects**

### **6.4 44658 LITTLE LAKE ROAD – WARDLAW PROPERTY**

This site is located on the north side of Little Lake Road and approximately 1,000 feet east of the subject Site. The well testing was done to prove adequate water supply for the development of a 4-bedroom single-family home. The water allotment needed for development was 320 gallons/day or 0.22 gpm. The tested well was 100 feet deep and only one observation well was utilized, and was located onsite. No adverse effects to the observation well were measured during the pumping of the test well and the long-term pumping effects were also deemed to be insignificant.

The observation well used for the Wardlaw study is considered to be outside the 3-day pumping radius of influence from our Site Well. Our study Site Well was considered to be operating normally at 0.18 gpm during the Wardlaw property testing. Therefore, the only water use increase needed for the cumulative assessment is the 0.07 gpm or 100 gal/day. When modeling the addition of 0.07 gpm from our study Site Well using the Theis solution, we calculated an additional drawdown of 0.06 feet. This drawdown is considered de minimis, and when combined with the previously calculated drawdown from the test well, the cumulative effect is only 4.09%. Therefore, no adverse cumulative impact to these observation wells is anticipated. The Wardlaw Property observation wells, and their predicted cumulative drawdowns are shown on **Table 7 – Cumulative Aquifer Effects**



**TABLE 7 – CUMULATIVE AQUIFER IMPACTS**

Well ID	Distance to Site Well	Well Depth	Depth to Water on Test Date	Water Column	180-day Predicted Interference from Initial Well study	180-day Predicted interference from 2024 Site Study	180-day Interference from other Assessments 180-days***	Total Predicted Cumulative Interference 180-days	Total Predicted Effect
<b>2016 Study - 44556 Little Lake Road – Grinberg Property</b>									
OB-1	1,630	80	23.43	56.57	2.28	0.04	NA	2.32	4.03%
OB-2	1,510	48.5	31.97	16.53	1.35	0.04	NA	1.39	8.56%
OB-4	1,830	30	19.53	10.47	1.05	0.04	NA	1.09	10.41%
<b>2006 Study - 44701 Little Lake Road - Wilson Property</b>									
S-O	Site Well	105	23	10.49	0.06	NA	NA	0.06	0.62%
H-O	150	160	NA	116.45*	0.06	0.614	NA	0.674	0.58%
<b>2006 Study - 44580 Little Lake Road – Skaarup Property</b>									
S-HD	1,340	16.85	10.5	6.35	0.46	0.05	NA	0.51	8.03%
L-O	1,170	200	45.21	15	0.35	0.06	NA	0.41	2.73%
O-O	1,950	130	15.83	114.17	0.12	0.03	NA	0.15	0.13%
<b>2004 Study – 44658 Little Lake Road – Wardlaw Property</b>									
Well B	1,050	40	11.9	28.1	1.09	0.06	NA	1.15	4.09%
* Based on available water column from 2024 test of the Site Well.									

The cumulative aquifer impact analysis indicates that the proposed increase in pumping at the Site Well will only have a minimal impact on the overall drawdowns in observation wells from previous studies.

## 7.0 WATER BALANCE INFORMATION

USGS and DWR studies in the Mendocino area provided water balance information that was used to assess groundwater sustainability within the subject Site area.

### 7.1 GROUNDWATER STORAGE

HES used well log information from the surrounding wells to estimate the aquifer thickness beneath the Site. The average saturated thickness of the Franciscan wells was 121.1 ft (**Table 1- Well Inventory**). Using the previously estimated storativity value of 0.0016 for the Franciscan Aquifer (**Table 4 – Storativity Values**) we have estimated the aquifer storage beneath the Site as follows:

#### **Franciscan Aquifer**

$$\begin{aligned} & \text{Aquifer Thickness (121.1 feet) x Storativity (0.0016) x Site Area (0.79-acres) = 0.153 acre-ft} \\ & 0.153 \text{ acre-ft x 325,851 gallons/acre-foot =} \\ & \underline{\text{Aquifer Storage = 49,878 gallons}} \end{aligned}$$

### 7.2 PRECIPITATION

Precipitation, primarily as rainfall and stream flow are the major sources of inflow to the aquifers in this area. Average precipitation in Mendocino is 39.68 inches/year (3.31 feet/year) which is equivalent to 2.61 acre-feet over the entire Site (3.31 feet. x 0.79-acre).

### 7.3 GROUNDWATER RECHARGE

Recharge to aquifers in the Subbasin primarily occurs through direct infiltration of precipitation and along the margins of the valley areas (mountain front recharge). The shallow aquifer system receives most of this recharge. Recharge that reaches the deeper aquifer zones is more poorly defined and likely comes from a combination of leakage from overlying shallow aquifers and mountain front recharge along the margins of the basin.

To estimate the groundwater recharge within the Site, HES first assumed that the recharge to the aquifer is primarily through rainfall and that most of the rainfall accumulated within the 0.79-acre parcel drains to recharge areas onsite or proximate to the Site. Therefore, the annual recharge to the Site can be initially estimated using the following data and equation.

$$0.79 \text{ acres x 3.31 feet} = \mathbf{2.61 \text{ acre-feet (851,210 gallons/year) = Available Recharge}}$$

However, this estimate does not account for surface run-off, and evapo-transpiration that occurs in all watersheds. To further evaluate the percentage of rainfall that contributes to recharge of the aquifer HES reviewed previous studies performed in the area<sup>9</sup>. The general consensus is that on average 1-foot of rainfall (~30% of annual rainfall) recharges the aquifers in the vicinity of the Site. With this estimation and the precipitation data presented above, we can re-calculate the groundwater recharge within to the aquifers as follows.

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<sup>9</sup>Hantzsche, N.H., 2002, Hydrological Study for Parcel # 119-150-33 44720 Main Street, Mendocino. Questa Engineering Corp. Santa Rosa, California (page 11).

0.79 acres x 3.31 feet (annual precipitation) x  
0.30 (long term average for recharge) =  
0.79 acre-feet = Estimated Annual Aquifer Recharge

Water pumped from the Site Well (or any well), however, does not come wholly from storage. Some will be derived from groundwater moving through the aquifer.

Groundwater inflow can be estimated using Darcy's equation:

$$Q = KiA$$

Where:

K = 2.33 gpd/ft<sup>2</sup>/day, average for Franciscan aquifer;

i = Groundwater gradient; Franciscan Aquifer 0.04 feet/foot<sup>10</sup>

A = Cross sectional area of flow;

~250-feet x 121-foot saturated thickness of Franciscan aquifer = 30,275 ft<sup>2</sup>

Using the above assumptions, the lateral flow of groundwater in the Franciscan aquifer over an annual basis is presented below.

$$2.33 \text{ gpd/ft}^2(K) \times 0.04 (i) \times 30,275 \text{ ft}^2 (A) = 2,246 \text{ gallons/day} = \text{Lateral Flow Rate (Q)}$$
$$2,246 \text{ gallons/day} \times 365 \text{ days/year} = \underline{\underline{1,029,895 \text{ gallons/year (3.16 acre-feet year)}}$$

Therefore, on an annual basis the available water for each aquifer is calculated below.

#### **Onsite Franciscan Aquifer Availability**

0.79 acre-feet/ year (direct recharge) + 3.16 acre-feet/year (lateral flow through aquifer) =  
**3.95 acre-feet/year (2.45 gpm)**

This water balance assessment indicates that a maximum sustainable annual water withdraw from the Site Well is approximately 3.95 acre-feet/year or 2.45 gpm.

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<sup>10</sup> Hydrogeologic Study of 10940 Lansing Street, Mendocino Seaside Cottage, Mendocino, CA, Lawrence and Associates, January, 2020.

### 7.3.1 Drought Conditions

Potential drought conditions in California could alter the recharge potential presented in this assessment. To account for drought conditions, we have assumed that the rainfall would only be 60% of average which would correlate to only 60% of average recharge to aquifers and a potential 40% decrease in annual flow across the site aquifer. Using this assumption, we can re-calculate the aquifer recharge potential in a drought year using the following equation.

$$\begin{aligned} & 3.31 \text{ feet/year (average rainfall)} \times 0.6 \text{ (drought year multiplier)} \times 0.79\text{-acre (Site area)} \times \\ & 0.3 \text{ (long term recharge rate for aquifers)} = \\ & \underline{0.47 \text{ acre-feet/year} = \text{Annual Recharge during Drought Conditions}} \end{aligned}$$

And,

$$\begin{aligned} & 3.16 \text{ acre-feet/year (lateral flow through aquifer)} \times 0.6 \text{ (drought year multiplier)} = \\ & \underline{1.9 \text{ acre-feet/year} = \text{Annual Aquifer Flow Through during Drought Conditions}} \end{aligned}$$

Therefore,

$$\begin{aligned} & 0.47 \text{ acre-feet/yr (direct recharge during drought)} + 1.9 \text{ acre-feet/yr (aquifer flow)} = \\ & \underline{\mathbf{2.37 \text{ acre-feet/year (1.47 gpm) = Annual Site Water Availability During Drought}}} \end{aligned}$$

This drought water balance assessment indicates that a maximum sustainable water withdraw from the Site Aquifer is approximately 2.45 acre-feet/year (1.52 gpm). This indicates that even during the drought conditions the Sites proposed water usage allotment of 360 gallons/day, or 0.40 acre-feet/year, is sustainable without creating aquifer overdraft conditions. Further, the Sites annual water usage of 360 gallons/day or 0.4 acre-feet/year (130,340 gallons/year) is less than the direct recharge alone calculated for a drought year.

## 8.0 CONCLUSIONS

Currently, the Site has a water allotment of 260 gallons/day, or 0.18 gpm from the Site's existing Franciscan aquifer well. The 72-hour well yield test performed on the Site Well determined a sustainable pumping rate of 1.39 gpm. The pumping rate was achieved with only 3.36 feet of drawdown (~4%) in the Site well and no drawdown measured in the Observation Wells. Results and calculations from the Well testing demonstrate that no adverse effects on nearby observation wells are anticipated, and with well recovery of 84% occurring within 24 -hours of testing, aquifer overdraft is not considered a concern. Conclusions of this assessment are as follows:

- Based on the aquifer test results, and the MCCSD ordinance, a pumping rate of 0.56 gpm would be the maximum rate allowable ( $1.39 \text{ gpm}/2.5 = 0.56 \text{ gpm}$ ). However, since the Site is only requesting a total usage rate of 0.25 gpm (0.07gpm increase), we used the expected Site pumping rate to model the 90 and 180-day drawdown effects using the Theis solution. The results showed that the predicted drawdowns were less than 10% for all four (4) observation wells (HR4, HR-11, HR-13, and the Hansen Well). Therefore, pumping the Site Well at 0.25 gpm (360 gallons/day) is not expected to create long term adverse effects or unsustainable groundwater demand to these wells.
- A cumulative effects analysis determined that the proposed increased pumping rate of 0.07 gpm in the Site Well would not have adverse effects on the historically monitored observation wells in the area.
- A water balance assessment made for the Site shows that the aquifer has average annual recharge and aquifer flow to allow for a sustainable withdraw of up to 3.95 acre-feet/year (2.45 gpm) and a withdraw of up to 2.37 acre-feet/year (1.47 gpm) during drought conditions. Therefore, there appears to be sufficient annual recharge and aquifer flow to allow for the total proposed annual allotment of 0.4 acre-feet/year or 0.25 gpm.

### In summary:

0.18 gpm (260 gal/day)	Current Site Water Allotment
0.25 gpm (360 gal/day)	Recommended Site Water Allotment
0.56 gpm (806 gal/day)	Maximum Potential Water Allotment from Site Well
0.40 acre-feet/year	Proposed Annual Site Water Use
3.95 acre-feet/year	Maximum Sustainable Withdraw from Site Aquifer (average)
2.37 acre-feet/year	Maximum Sustainable Withdraw during Drought Conditions

While groundwater overdraft is a potential future concern for the area, the findings of this report indicate that pumping and groundwater extraction at the Site Well, at the recommended rates, is not likely to create adverse conditions in near site wells, and based on existing conditions in the vicinity, would be sustainable for the foreseeable future.

## 9.0 REFERENCES

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- New Mexico Office of the State Engineer, OSE Inverse Theis Calculator, 2017.
- Pacific Geoscience, Hydrogeologic Study, 44701 Little Lake Road, Mendocino, CA, APN: 119-140-23, prepared for William Wilson, October 19, 2006.
- Pacific Geoscience, Hydrogeologic Study, 44580 Little Lake Road, Mendocino, CA, APN: 119-090-10-23, prepared for Mathew Skaarup, October 12, 2006.
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- Questa Engineering Corp, Hydrological Study for Parcel # 119-090-042, 44658 Little Lake Road, Mendocino, CA, prepared for Gordan Wardlaw September 2004.

## 10.0 LIMITATIONS

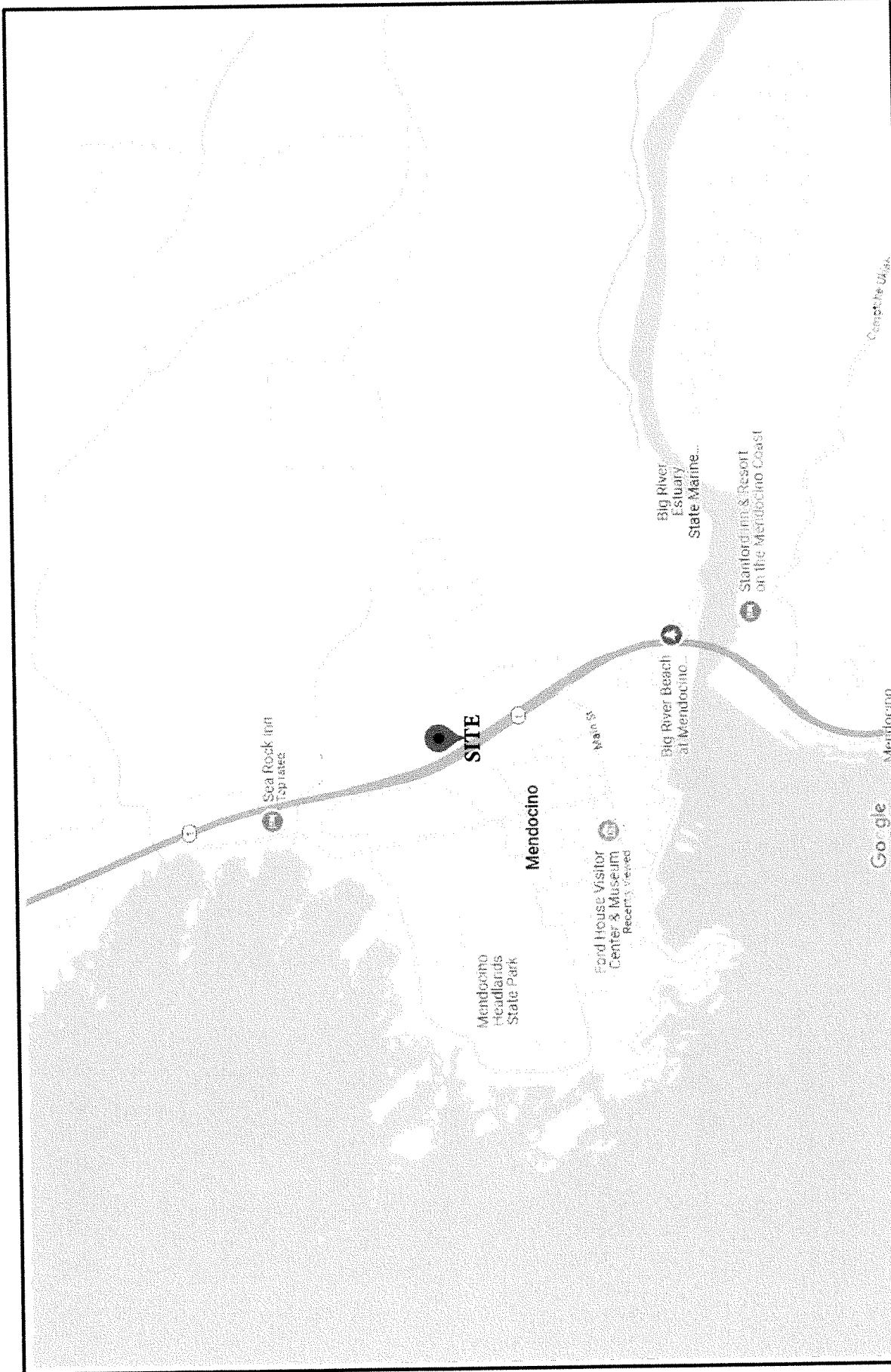
HES is not responsible for the independent conclusions, opinions or recommendations made by others based on the records review, field exploration, laboratory test data, calculations, and interpretations presented in this report.

Groundwater systems of Coastal California are typically complex, and available data rarely allows for more than general assessment of groundwater conditions and delineation of aquifers. Hydrogeologic interpretations are based on well tests, and drillers' reports made available to us through the California Department of Water Resources, available geologic maps, near-site hydrogeologic studies and professional judgment. This analysis is based on limited available data and relies significantly on interpretation of data from disparate sources of disparate quality.

It should be noted that hydro-geological assessments are inherently limited in the sense that conclusions are drawn and recommendations developed from information obtained from limited research and site evaluation. Additionally, the passage of time may result in a change in the environmental characteristics at this site and surrounding properties. This report does not warrant against future operations or conditions, nor does this warrant operations or conditions present of a type or at a location not investigated.

This study is not intended to assess if any soil contamination, waste emplacement, or groundwater contamination exists by subsurface sampling through the completion of soil borings and the installation of monitoring wells. The scope of work, determined by the client, did not include these activities.

This Report is for the exclusive use of Lisa Clifton-Bumpass, and their authorized affiliates, designates and assignees and no other party shall have any right to rely on any service provided by Hurvitz Environmental Services without prior written consent.



JOB NUMBER:  
**5287.01**

DATE:  
**09/30/24**

PLATE:  
**1**

**Site Location Map**  
 44780 Little Lake Road  
 Mendocino, CA 95460

**HURVITZ ENVIRONMENTAL**  
 105 MORRIS ST, STE 188  
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 PH: 707.824.1690  
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 CA PG# 7573

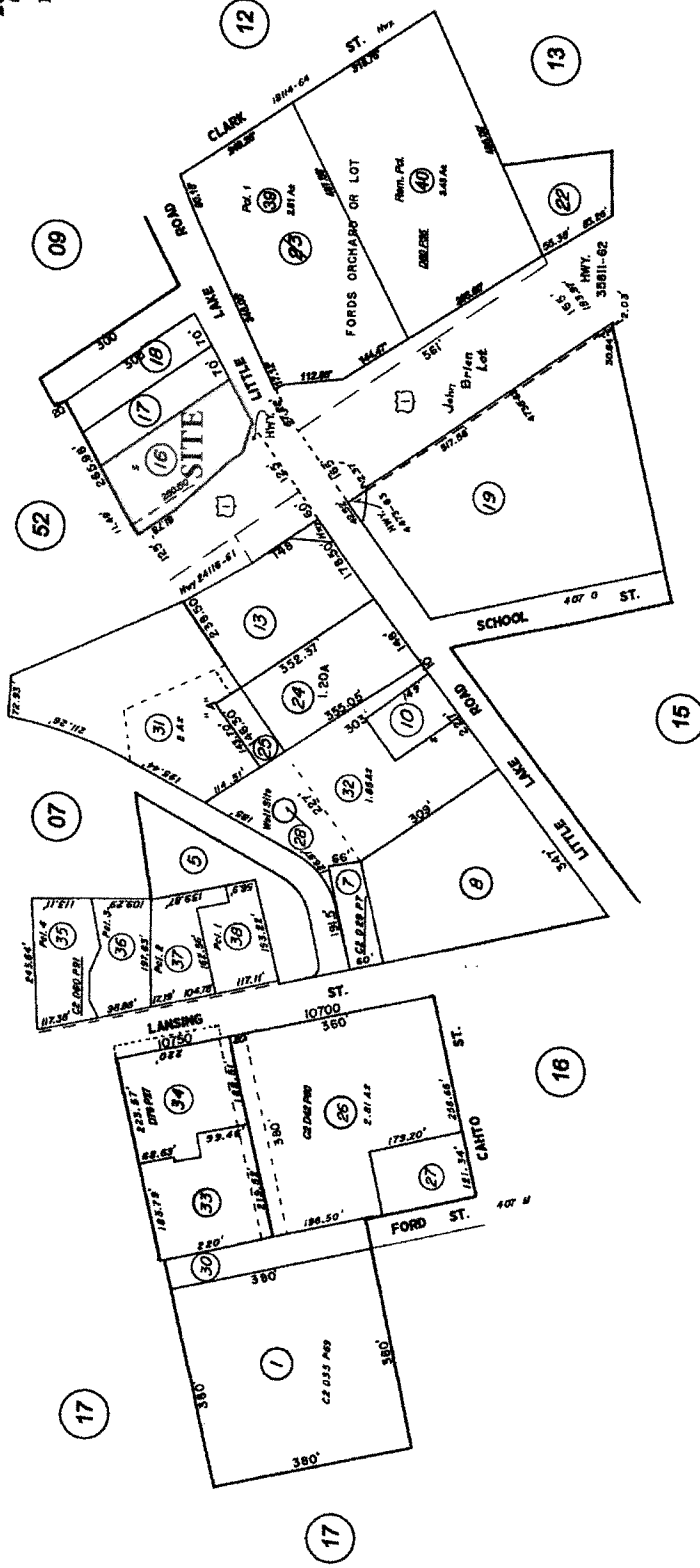




Por. of Sec. 30 T.17N. R.17W. M.D.B.&M.  
 Mendocino  
 Por. Mendocino & Hills Tract C1 D3 P68

104-001

119-14



NOTE: This map was prepared for assessment purposes only. No liability is assumed for the data delineated hereon.

Assessor's Map  
 County of Mendocino, Calif.  
 Updated December 7, 2010

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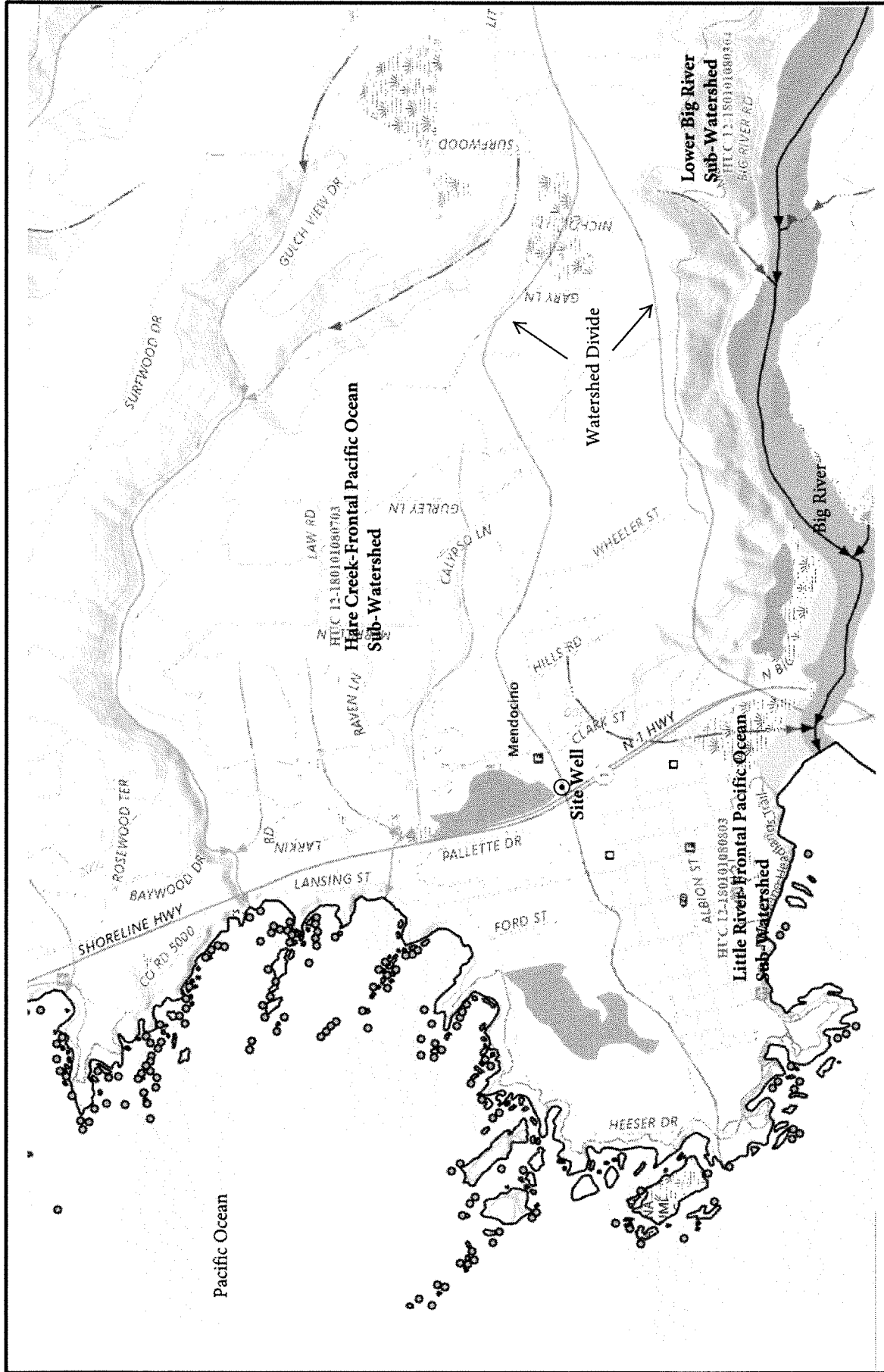
**Assessors Parcel Map**  
 APN: 119-140-16  
 44780 Little Lake Road  
 Mendocino, CA 95460

JOB NUMBER:  
 5287.01

DATE:  
 12/19/24

PLATE:  
 2





JOB NUMBER:  
5287.01

DATE:  
12/20/24

PLATE:  
3

**Topographic Map**  
44780 Little Lake Road  
Mendocino, CA 95460

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JOB NUMBER:	5227.01
DATE:	12/12/24
PLATE:	4

**Site Plan - Well Locations**  
 44780 Little Lake Road  
 Mendocino, CA 95460

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 CA PG# 7573

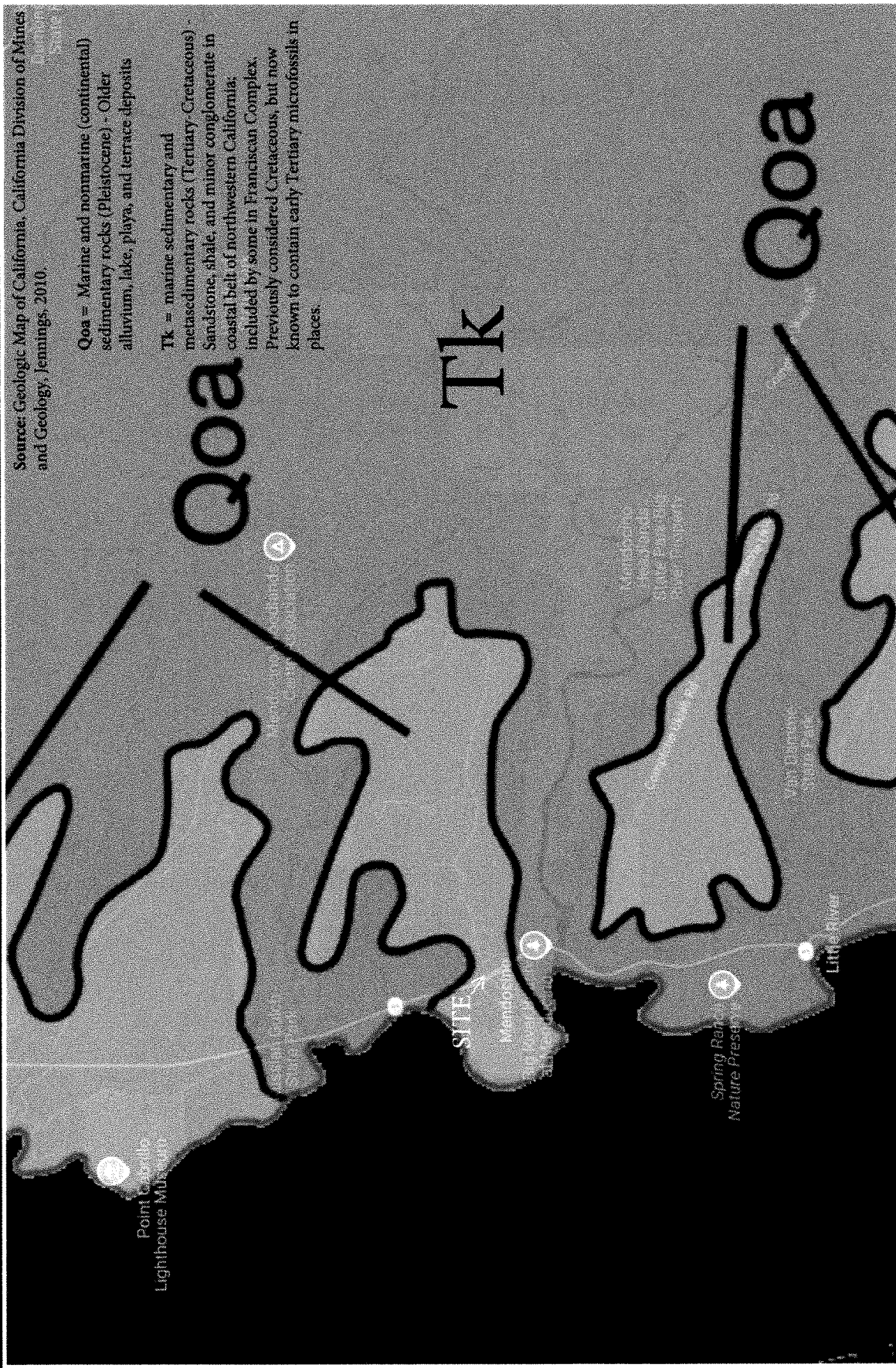


Source: Geologic Map of California, California Division of Mines and Geology, Jennings, 2010.

Qoa = Marine and nonmarine (continental) sedimentary rocks (Pleistocene) - Older alluvium, lake, playa, and terrace deposits

Tk = marine sedimentary and metasedimentary rocks (Tertiary-Cretaceous) - Sandstone, shale, and minor conglomerate in coastal belt of northwestern California, included by some in Franciscan Complex.

Previously considered Cretaceous, but now known to contain early Tertiary microfossils in places.



JOB NUMBER: 5287.01  
DATE: 12/20/24  
PLATE: 5

**Geologic Map**  
44780 Little Lake Road  
Mendocino, CA 95460

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**HE**

**APPENDIX A  
PHOTOGRAPHIC LOG**



SITE PHOTOGRAPHS

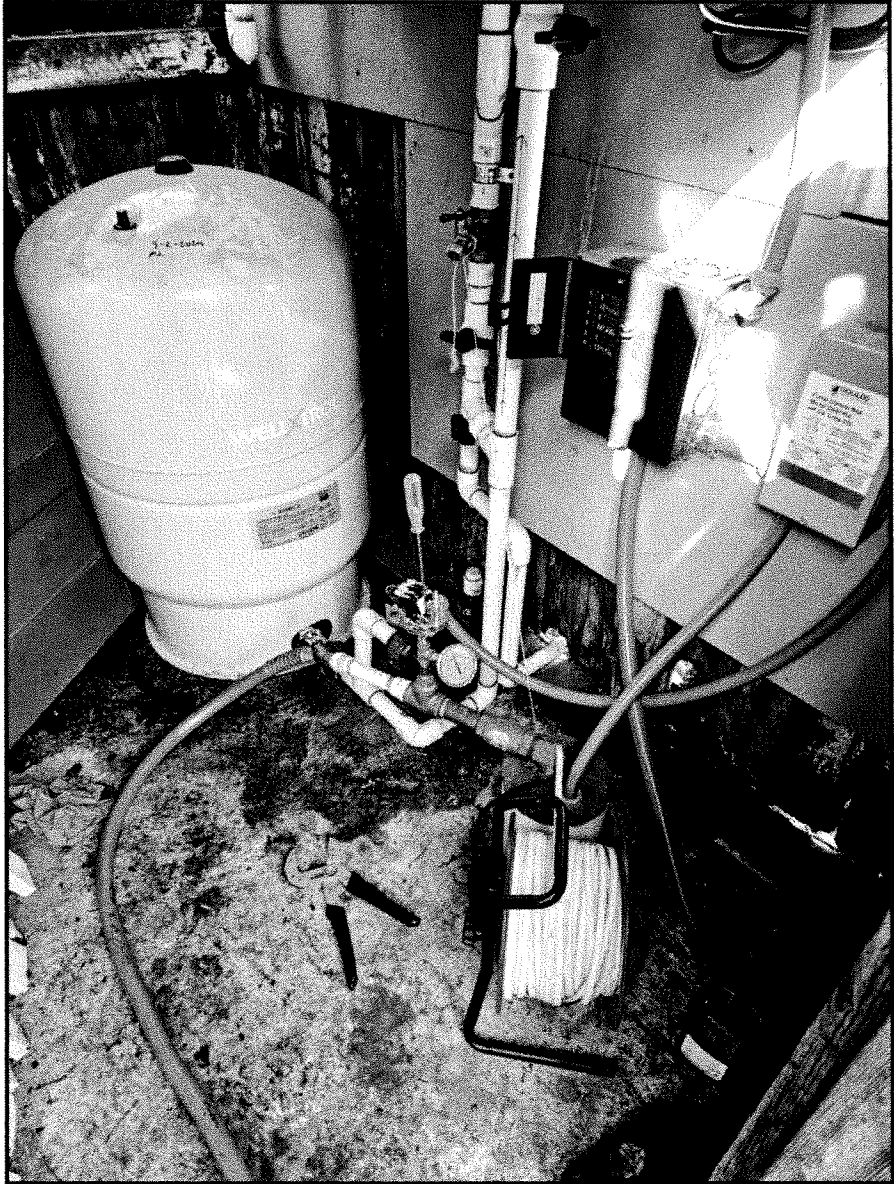


Photo 2: View of Site Well during testing.

SITE PHOTOGRAPHS



Photo 3: View of "Hansen Well" shed and holding tank. Discharged water was initially pumped to fill this tank before transferring to the sewer cleanout.



SITE PHOTOGRAPHS

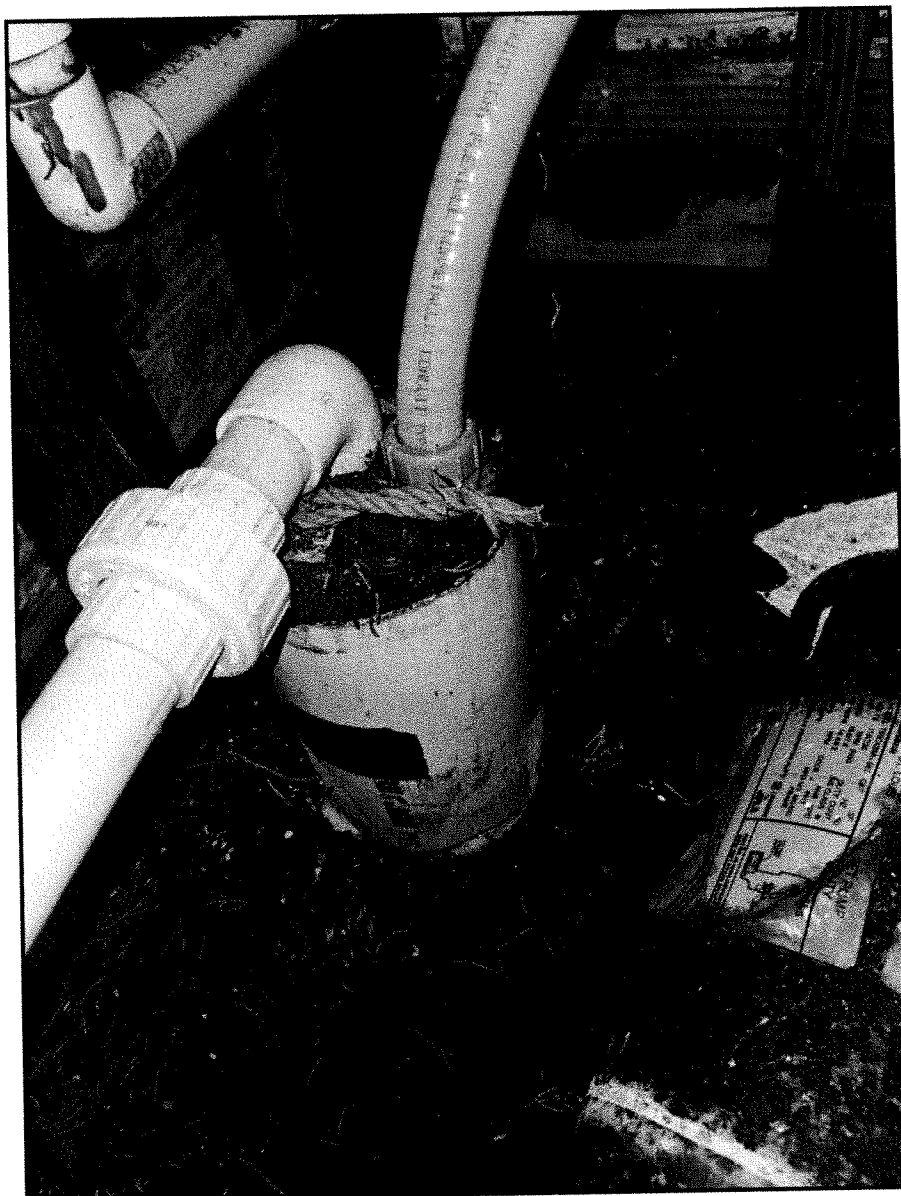


Photo 4: Close-up view of "Hansen Well" (DWR Well #419965) located behind the holding tank seen in Photo #3.

SITE PHOTOGRAPHS



Photo 5: View of Observation Well HR-13 (DWR Well #211197).

SITE PHOTOGRAPHS

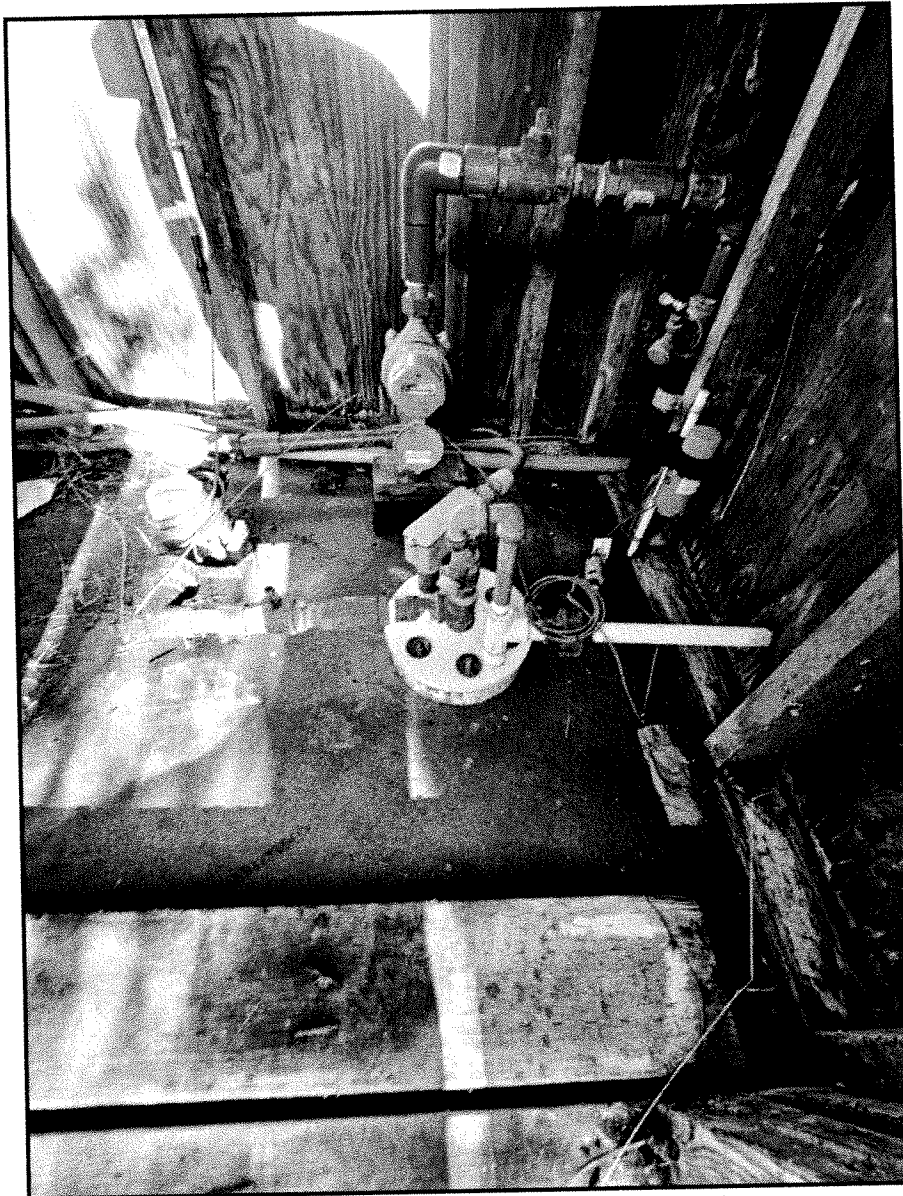


Photo 6: View of Observation Well HR-11.

SITE PHOTOGRAPHS



Photo 7: View of Observation Well HR-4.

**APPENDIX B**  
**PROOF OF PUBLICATION**

## **NOTICE OF AQUIFER TEST**

Property Owner: Lisa Clifton-Bumpass and Lorril Fong-Jean

Site Address: 44780 Little Lake Rd., Mendocino, CA 95460

Assessor Parcel Number: 119-140-16

Contact person: Lisa Clifton-Bumpass

Mailing Address: PO Box 959, Mendocino, CA 95460

Telephone: 510-461-2205

Purpose of test: To prove adequate groundwater for new development.

**NOTICE IS HEREBY GIVEN THAT AN AQUIFER TEST WILL BE CONDUCTED ON NOVEMBER 12, 2024,**  
BEGINNING AT 8:00 AM for the purpose of testing water quantity and observing any impacts resulting from groundwater extraction during the test. This test shall continue for a period of 72- hours from the time the test begins. If you notice any change in your well level or any other condition that indicates that your well is being affected by this test, you should immediately notify:

**Mendocino City Community Services District, P.O. Box 1029, 10500 Kelly St., Mendocino, CA 95460**

**Tel# 707-937-5790**

Publish: October 24, 2024

**APPENDIX C**  
**WELL COMPLETION REPORTS**

# SUPERIOR PUMP & DRILLING INC.

Water Systems Water Treatment Well Drilling  
P.O. Box 1551 Fort Bragg CA 95437  
PHONE (707) 964-9511 CA LIC. # 495399

## WATER QUANTITY REPORT

**Name: Lorril Fong'jean**

**Well Site: 44780 Little Lake Rd. Mendocino**

**Well Casing: 5" PVC**

**Total Depth: 107'**

**Static Level: 22'**

**Recovery Rate: 9.5gpm**

**Alpha Lab Report: P-A**

**COLIFORM: Present**

**E. COLI: Absent**

**NOTES:** Recovery rates can change with the seasons and amount of annual rainfall

We pumped a total of 2300 gallons from the well during the 4hr pump test.  
Water level started at 22' and drew down to 52' and stabilized with a pumping rate of 9.5gpm, for 3.5hrs it maintained this level at same flow rate.  
At the end of the test the water level came back up to starting static level 22' within 20 minutes of turning the pump off.

### RECOMMENDATIONS:

This is a very old water system, the pressure tank is water logged and needs to be replaced along with most of the components for the water system in the pump house. The electrical should also be brought up to currant code.

Field Mineral Sample: Iron 0ppm                      pH 6                      Hardness 2gpg

Tested By: Kyle Armstrong

Date: 7/26/2023





Alpha Analytical Laboratories Inc.  
e-mail: clientservices@alpha-labs.com

208 Mason Street, Ukiah, California 95482  
Phone: (707) 468-0401 • Fax: (707) 468-5267

# Work Order Chain of Custody Record

Lab No. 2363626 Page      of     

Signature below authorizes work under terms stated on reverse side.

Company Name: **Superior Pump & Drilling**  
 Project Name: **Fong Jean Well**  
 Mailing Address: **N Main FB**  
 Project Address: **44780 Little Lake Rd**  
 Project Contact (Hardcopy or PDF to): **Dustin Q**  
 P.O. #:   
 Quote #:   
 Phone/Fax: **964-9511**  
 Bill to: **Superior Pump**

Analysis Request

TAT	24 hr <input type="radio"/>	48 hr <input type="radio"/>	Lab Approval Required <input type="radio"/>	1 wk <input type="radio"/>	2 wk (standard) <input type="radio"/>
-----	-----------------------------	-----------------------------	---	----------------------------	---------------------------------------

For Lab Use Only

Sampler's Signature: *Dustin Q*

Sample Designation	Date	Time	Container						Preservative Matrix					
			40ml VOA	Poly	Amber	Sieve	HCL	HNO3	H2SO4	None	Water	Soil		
Well	7/26	10:10	X									X	X	

Relinquished by: *Dustin Q*

Relinquished by:

Relinquished by:

Received by:

Received by:

Received for Laboratory by:

California EDF Report?  Yes  No

Sampling Company Log Code:

Global ID:

EDF to (Email Address):

Drinking Water State System/Source Number:

Travel and Site Time:  Mileage:  Misc. Supplies:

Sample Condition on Receipt:

77-088

Do Not Fill In

DUPLICATE  
Retain this copy

STATE OF CALIFORNIA  
THE RESOURCES AGENCY  
DEPARTMENT OF WATER RESOURCES  
WATER WELL DRILLERS REPORT

No 126038

State Well No. \_\_\_\_\_  
Other Well No. 0639

(1) OWNER:  
Name SMITH & MORT  
Address 103 PACIFIC AVE  
REDMONT, CA.

(2) LOCATION OF WELL: 119-140-16  
County MENUDO Owner's number, if any \_\_\_\_\_  
Township, Range, and Section 44780 LITTLE LAKE RD.  
Distance from cities, roads, railroads, etc. MENUDO, CA.

(11) WELL LOG:  
Total depth 105 ft. Depth of completed well 105 ft.  
Formation: Describe by color, character, size of material, and structure  
0 TO 2 ft. to 7.5 ft.  
2 TO 8 SAND & SML. GRAVEL  
8 TO 13 CLAY  
13 TO 15 CLAY & RED  
BED ROCK  
15 TO 38 RED BED ROCK  
38 TO 105 BLUE ROCK

(3) TYPE OF WORK (check):  
New Well  Deepening  Reconditioning  Destroying   
If destruction, describe material and procedure in Item 11.

(4) PROPOSED USE (check):  
Domestic  Industrial  Municipal   
Irrigation  Test Well  Other

(5) EQUIPMENT:  
Rotary AIR   
Cable   
Other

(6) CASING INSTALLED:

STEEL:				OTHER:				If gravel packed	
From ft.	To ft.	Diam.	Gage or Wall	Diameter of Bore	From ft.	To ft.			
<u>0</u>	<u>105</u>	<u>5</u>	<u>160</u>	<u>10</u>	<u>0</u>	<u>20</u>			
				<u>7</u>	<u>20</u>	<u>105</u>			

Size of slots or well rings: \_\_\_\_\_ Size of gravel: PER

(7) PERFORATIONS OR SCREEN:  
Type of perforation or name of screen SKILL SAW

From ft.	To ft.	Perf. per row	Rows per ft.	Size in. x in.
<u>21</u>	<u>105</u>	<u>3</u>	<u>3</u>	<u>18x26"</u>

(8) CONSTRUCTION:  
Was a surface sanitary seal provided? Yes  No  To what depth 65 ft.  
Were any strata sealed against pollution? Yes  No  If yes, note depth of strata  
From \_\_\_\_\_ ft. to \_\_\_\_\_ ft.  
Method of sealing CONCRETE

(9) WATER LEVELS:  
Depth at which water was first found, if known 65 ft.  
Standing level before perforating, if known \_\_\_\_\_ ft.  
Standing level after perforating and developing \_\_\_\_\_ ft.

(10) WELL TESTS: Boiler  
Was pump test made? Yes  No  If yes, by whom? DRILLER  
Qd: 4 gal./min. with \_\_\_\_\_ ft. drawdown after \_\_\_\_\_ hrs.  
Temperature of water \_\_\_\_\_ Was a chemical analysis made? Yes  No   
Was electric log made of well? Yes  No  If yes, attach copy

Work started 8-15-77, Completed 8-15-77

WELL DRILLER'S STATEMENT:  
This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.

NAME KELLEY PMP & DRILLING INC  
(Person, firm, or corporation) (Typed or printed)  
Address P.O. Box 272 FT. BRAGG  
[SIGNED] W. Kelley (Well Driller)  
License No. 325572 Dated 8-15- 1977

SKETCH LOCATION OF WELL ON REVERSE SIDE

DUPLICATE Driller's Copy

STATE OF CALIFORNIA WELL COMPLETION REPORT

94030

Owner's Well No. 15 Oct 94 No. 419965 Date Work Began 15 Oct 94 Local Permit Agency Health Dept Permit No. 10419 Permit Date 9 Sept 94

STATE WELL NO. STATION NO. LATITUDE LONGITUDE APN TRS. OTHER

GEOLOGIC LOG

Table with columns: ORIENTATION (VERTICAL checked), DEPTH FROM SURFACE (0-29 ft), DESCRIPTION (Black clayey top soil, Brown clayey sand, Brown granular clay, Brown clay, Gray clay, Gray sandstone)

WELL OWNER Name: J.E. Hansen Mailing Address: Br 1074 Mandocino CA 95460

WELL LOCATION Address: 44760 Little Lake Rd City: Mandocino County: Mandocino APN Book: 119 Page: 140 Parcel: 17 Township: 17N Range: 17W Section: 30

LOCATION SKETCH NORTH SOUTH, ACTIVITY (NEW WELL checked), MODIFICATION/REPAIR, DESTROY, PLANNED USE(S), WATER SUPPLY (Domestic checked), CATHODIC PROTECTION

DRILLING METHOD: Rotary FLUID: Air WATER LEVEL: 20 (Fl.) & DATE MEASURED: 15 Oct 94 ESTIMATED YIELD: 1.3 (GPM) & TEST TYPE: air-lift TEST LENGTH: 1 (Hrs.) TOTAL DRAWDOWN: (Fl.)

TOTAL DEPTH OF BORING: 160 (Feet) TOTAL DEPTH OF COMPLETED WELL: 160 (Feet)

Table with columns: CASING(S) (DEPTH FROM SURFACE, BORE-HOLE DIA, TYPE, MATERIAL GRADE, INTERNAL DIAMETER, GAUGE OR WALL THICKNESS, SLOT SIZE) and ANNULAR MATERIAL (DEPTH FROM SURFACE, CE-MENT, BEN-TONITE, FILL, FILTER PACK)

- ATTACHMENTS: Geologic Log, Well Construction Diagram, Geophysical Log(s), Soil-Water Chemical Analysis, Other

CERTIFICATION STATEMENT: I, the undersigned, certify that this report is complete and accurate to the best of my knowledge and belief. NAME: Kelley Pump & Drilling, ADDRESS: Br 272 Ft. Bragg CA 95437, Signed: MK Kelly, DATE SIGNED: 16 Oct 94, LICENSE NUMBER: 325572

WELL # 13

ORIGINAL

with DWR

STATE OF CALIFORNIA  
THE RESOURCES AGENCY  
DEPARTMENT OF WATER RESOURCES  
WATER WELL DRILLERS REPORT

Do not fill in  
No. 211197

Intent No. \_\_\_\_\_  
File No. or Date. 8229

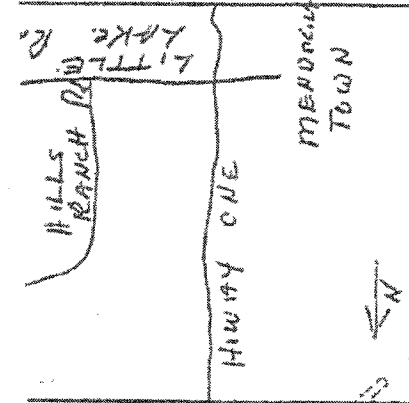
State Well No. \_\_\_\_\_  
Other Well No. \_\_\_\_\_

OWNER: Name SIDLOW CORP., Peter J.  
11970 Borden Ave  
San Fernando, California Zip 91340

(12) WELL LOG: Total depth 249 ft. Depth of completed well 248 ft.  
from ft. to ft. Formation (Describe by color, character, size or material)

LOCATION OF WELL (See instructions):  
City MENDOCINO Owner's Well Number \_\_\_\_\_  
Address if different from above \_\_\_\_\_  
Twp 17N Range 17W Section 30  
How from cities, roads, railroads, fences, etc.  
10000 Hills Ranch Road  
Mendocino  
A.P. # 119-51 Parcel A

0 - 2 Top soil and cobble  
2 - 12 Sandy weathered rock  
12 - 30 Tan clayey sand and weathered rock  
30 - 40 Orange clayey sand and rock  
40 - 249 Gray sandy rock with streaks of quartz



(3) TYPE OF WORK:  
New Well  Deepening   
Reconstruction   
Reconditioning   
Horizontal Well   
Destruction  (Describe destruction materials and procedures in item 12)  
(4) PROPOSED USE:  
Domestic   
Irrigation   
Industrial   
Test Well   
Stock   
Municipal   
Other

EQUIPMENT:  
 Reverse   
 Air   
 Bucket

(8) GRAVEL PACK:  
Yes  No  Size pea  
Diameter of bore 6 3/4, 9 7/8, 7 7/8  
Packed from 37 to 249 ft.

SIGING INSTALLED:

To ft.	Dia. in.	Cage or Wall	From ft.	To ft.	Slot size
248	5"	CL200	46	66	.032
			126	146	"
			166	186	"

(8) PERFORATIONS: micro  
Type of perforation or size of screen \_\_\_\_\_

WELL SEAL:  
face sanitary seal provided? Yes  No  If yes, to depth 37 ft.  
casing sealed against pollution? Yes  No  Interval \_\_\_\_\_ ft.  
of sealing gravel on pack

WATER LEVELS:  
First water, if known \_\_\_\_\_ ft.  
Water level after well completion 25 ft.

WELL TESTS:  
Test made? Yes  No  If yes, by whom? Weeks  
Test 1 Pump  Bailor  Air lift   
Water at start of test 25 ft. At end of test 240 ft.  
4 gal/min after 2 hours Water temperature cool  
Analysis made? Yes  No  If yes, by whom?  
Log made? Yes  No  If yes, attach copy in this report

Work started 7-3 1990 Completed 7-12 1990  
WELL DRILLER'S STATEMENT:  
This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.  
Signed Ward Thompson By: Don Sinclair  
(Well Driller)  
NAME WEEKS DRILLING AND PUMP COMPANY  
(Person, firm or corporation) (Type or print)  
Address P.O. Box 176 - 6100 Sebastopol Road  
City Sebastopol, California Zip 95473  
License No. 657-177681 Date of this report July 19, 1990

STATE OF CALIFORNIA  
DEPARTMENT OF HEALTH SERVICES

**WELL DATA** (1) Place and Owner Hills Ranch Tract 207 A Planned Unit Development

(2) Source of Information Hills Ranch Improvement Plans and D.W.R. Water Well Driller's Reports

Collected by \_\_\_\_\_ Date \_\_\_\_\_

(3) Number or Name	No. 2	No. 3 (Abandoned)	No. 4
Date drilled	12-6-76		12-8-76
(4) Location: Neighborhood	Hills Ranch P. U. D. near		Mendocino, CA
Size of lot	40 Acres		40 Acres
Distance to: Sewer	125'		75'
Sewage disposal	±1.5 miles		±1.5 miles
Abandoned well	None		None
Nearest property line	145'		85'
(5) Housing: Type	Wood Struct.		Wood Struct.
Condition	New		New
Pit depth (if any)	None		None
Floor (material)	Concrete		Concrete
Drainage	N/A		N/A
(6) Well Depth	90'		19'
(7) Casing: Depth	90'		19'
Diameter	6"		8"
Kind	Plastic		Plastic
Height above floor	6"		6"
Distance to highest perforations	27'		11'
Surface sealed (yes or no)	Yes		Yes
Gravel pack (yes or no)	Yes		Yes
Second casing depth	None		None
Second casing diameter	None		None
Annular seal (depth)	18'		10'
(8) Impervious Strata: { Thickness Penetrated	{ Depth to		
(9) Water Levels: { Surface	{ Static		
Depth to { When pumping			
(10) Pump: Make	Gould		Tait
Type	5ES		5DL310C
Capacity, g.p.m.	5		5
Lubrication			
Power	PG&E - Elec.		PG&E - Elec.
Auxiliary power	None		None
Control	Telemetry		Telemetry
Discharge location	Trtmnt Plant		Trtmnt Plant
Discharge to	Pre-trtmnt Plt		Pre-trtmnt Plt
(11) Frequency of Use	Daily as Demand Requires		Daily as Demand Requires
(12) Flood Hazard	No		No
(13) Remarks and Defects (Use other side if necessary)			

(14) Show well log on other side. Well Logs Attached

STATE OF CALIFORNIA  
DEPARTMENT OF HEALTH SERVICES

May 1986

**WELL DATA** (1) Place and Owner Hills Ranch Tract 207 A Planned Unit Develop.

(2) Source of Information Hills Ranch Improvement Plans

Collected by \_\_\_\_\_ Date \_\_\_\_\_

(3) Number or Name	No. 11	No. 12	Surface Water Well #1
Date drilled	9/26/84	9/25/84	10/11/84
(4) Location: Neighborhood	Hills Ranch P. U. D. near Mendocino, Calif.		
Size of lot	±40 Acres	±40 Acres	+/- 40 Acres
Distance to: Sewer	40'	180'	330'
Sewage disposal	±1.5 miles	±1.5 miles	+/- 1.5 Miles
Abandoned well	None	None	None
Nearest property line	10'	90'	95'
(5) Housing: Type	Wood Struct.	Wood Struct.	Wood Struct.
Condition	New	New	New
Pit depth (if any)	None	None	None
Floor (material)	Concrete	Concrete	Concrete
Drainage	N/A	N/A	N/A
(6) Well Depth	21'	19'	24'
(7) Casing: Depth	22'	20'	24'
Diameter	8"	8"	36"
Kind	Plastic	Plastic	R.C.P.
Height above floor	6"	6"	+/- 2'
Distance to highest perforations	13'	11'	5'
Surface sealed (yes or no)	Yes	Yes	Yes
Gravel pack (yes or no)	Yes	Yes	Yes
Second casing depth	None	None	None
Second casing diameter			
Annular seal (depth)	12'	10'	5'
(8) Impervious Strata: { Thickness Penetrated { Depth to			
(9) Water Levels: { Surface { Static { When pumping	6.2' 15'	2.5' 9'	14.0 N/A
(10) Pump: Make	Tait	Tait	Standard
Type	5DL310C	5DL310C	8D35P
Capacity, g.p.m.	4.3	4.1	5.0 to 35.0
Lubrication			
Power	PG&E - Elec.	PG&E - Elec.	PG&E - Elec.
Auxiliary power	None	None	None
Control	Telemetry	Telemetry	Telemetry
Discharge location	Trtmt Plant	Trtmt Plant	Trtmt Plant
Discharge to	Pre-trtmt Plt	Pre-trtmt Plt	Pre-trtmt Plt
(11) Frequency of Use	Daily as Demand Requires	Daily as Demand Requires	Daily as Demand Requires
(12) Flood Hazard	No	No	Yes
(13) Remarks and Defects (Use other side if necessary)			
(14) Show well log on other side.	Well logs attached		

17N/17W-30G

ORIGINAL

STATE OF CALIFORNIA

Do not fill in

File with DWR

THE RESOURCES AGENCY  
DEPARTMENT OF WATER RESOURCES  
WATER WELL DRILLERS REPORT

No. 119039

Title of Intent No. \_\_\_\_\_  
Local Permit No. or Date \_\_\_\_\_

119-140-013

State Well Code Sec. 13732  
Other Well Code Sec. 13732

(1) \_\_\_\_\_  
Address \_\_\_\_\_  
City \_\_\_\_\_

(12) WELL LOG: Total depth 139 ft. Depth of completed well 139 ft.  
from ft. to ft. Formation (Describe by color, character, size or material)

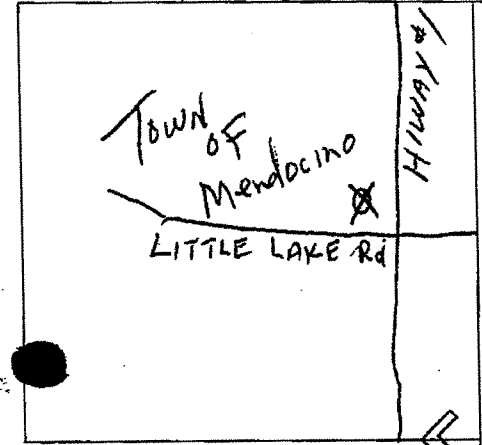
(2) LOCATION OF WELL (See instructions):  
County Mendocino Owner's Well Number \_\_\_\_\_

0-3 Sandy loam  
3-9 Coarse & fine sands  
9-20 Brown sandy clays  
20-22 Sandy brown clay & wood  
22-25 Moist shaley brown clay  
25-30 Gray shale  
30-43 Highly fractured sand & gray rock  
43-48 Sandy gray shaley rock  
48-52 Very hard sandy gray rock  
52-81 Sandy gray rock  
81-90 Hard sandy gray rock  
90-139 Sandy gray shale rock

Well address if different from above \_\_\_\_\_  
Township \_\_\_\_\_ Range \_\_\_\_\_ Section \_\_\_\_\_

Distance from cities, roads, railroads, fences, etc.  
N/W corner of Little Lake Road & Hiway #1,  
Mendocino

A.P. # 119-140-13



(3) TYPE OF WORK:  
New Well  Deepening   
Reconstruction   
Reconditioning   
Horizontal Well   
Destruction  (Describe destruction materials and procedures in Item 12)

(4) PROPOSED USE:  
Domestic   
Irrigation   
Industrial   
Test Well   
Stock   
Municipal   
Other

(5) EQUIPMENT:  
Rotary  Reverse   
Cable  Air   
Other  Bucket

(6) GRAVEL PACK:  
Yes  No  Size 20  
Diameter of bore 9  
Packed from 23' to 139'

(7) CASING INSTALLED:  
Steel  Plastic  Concrete

(8) PERFORATIONS: torch  
Type of perforation or size of screen

From ft.	To ft.	Dia. in.	Gauge or Wall	From ft.	To ft.	Slot size
0	140	4 1/2	10ga	39	79	
				99	139	1/8 x 3

(9) WELL SEAL:  
Was surface sanitary seal provided? Yes  No  If yes, to depth 23' ft.  
Were strata sealed against pollution? Yes  No  Interval \_\_\_\_\_ ft.  
Method of sealing cement on gravel pack

(10) WATER LEVELS:  
Depth of first water, if known \_\_\_\_\_ ft.  
Standing level after well completion 19' ft.

(11) WELL TESTS:  
Was well test made? Yes  No  If yes, by whom? Weeks  
Type of test Pump  Bailor  Air lift   
Depth to water at start of test 19' ft. At end of test bottom  
Flow 52 gal/hr after 1 hours Water temperature cold  
Chemical analysis made? Yes  No  If yes, by whom? \_\_\_\_\_  
Was electric log made? Yes  No  If yes, attach copy to this report

Work started Sept. 9, 1977 Completed Sept. 12, 1977

WELL DRILLER'S STATEMENT:  
This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.

SIGNED Gerald Thompson By: Mary E. Thompson  
(Well Driller)  
NAME Weeks Drilling and Pump Company  
(Person, firm, or corporation) (Typed or printed)  
Address Sebastopol Road  
City Sebastopol, California  
License No. 177681 Date of this report September 22, 1977

State of California  
**Well Completion Report**  
 Form DWR 188 Auto-Completed 6/19/2023  
 WCR2023-004064

Owner's Well Number 2 Date Work Began 03/17/2023 Date Work Ended 03/23/2023  
 Local Permit Agency Environmental Health Division - Fort Bragg Office  
 Secondary Permit Agency Planning & Building CE Permit Number 5348 Permit Date 01/20/2023

Well Owner (must remain confidential pursuant to Water Code 13752)	Planned Use and Activity
Name <u>XXXXXXXXXXXXXXXXXXXXXX</u>	Activity <u>New Well</u>
Mailing Address <u>XXXXXXXXXXXXXXXXXXXXXX</u> <u>XXXXXXXXXXXXXXXXXXXXXX</u>	Planned Use <u>Water Supply Domestic</u>
City <u>XXXXXXXXXXXXXXXXXXXXXX</u> State <u>XX</u> Zip <u>XXXXX</u>	

Well Location	
Address <u>44900 Little Lake RD</u>	APN <u>119-140-24</u>
City <u>Mendocino</u> Zip <u>95460</u> County <u>Mendocino</u>	Township <u>17 N</u>
Latitude <u>39 18 34.524 N</u> Longitude <u>-123 47 51.1439 W</u>	Range <u>17 W</u>
Deg. Min. Sec.	Section <u>30</u>
Dec. Lat. <u>39.30959</u> Dec. Long. <u>-123.79754</u>	Baseline Meridian <u>Mount Diablo</u>
Vertical Datum _____ Horizontal Datum <u>WGS84</u>	Ground Surface Elevation _____
Location Accuracy <u>10 Ft</u> Location Determination Method <u>GPS</u>	Elevation Accuracy _____
	Elevation Determination Method _____

Borehole Information	Water Level and Yield of Completed Well
Orientation <u>Vertical</u> Specify _____	Depth to first water <u>40</u> (Feet below surface)
Drilling Method <u>Direct Rotary</u> Drilling Fluid <u>Bentonite</u>	Depth to Static _____
Total Depth of Boring <u>125</u> Feet	Water Level <u>15</u> (Feet) Date Measured <u>03/23/2023</u>
Total Depth of Completed Well <u>123</u> Feet	Estimated Yield* <u>21</u> (GPM) Test Type <u>Air Lift</u>
	Test Length <u>4</u> (Hours) Total Drawdown <u>108</u> (feet)
	*May not be representative of a well's long term yield.

Geologic Log - Free Form		
Depth from Surface	Feet to Feet	Description
0	2	soft top soil
2	10	#3 sand
10	40	gold clay with iron rock, fractured rock, H2O
40	50	gold clay and iron rock, more iron rock than clay
50	65	sandstone
65	105	sandstone/quartz
105	110	sandstone
110	125	shale



Casings										
Casing #	Depth from Surface Feet to Feet		Casing Type	Material	Casings Specificatons	Wall Thickness (inches)	Outside Diameter (inches)	Screen Type	Slot Size if any (inches)	Description
1	0	23	Blank	PVC	OD: 5.563 in.   SDR: 21   Thickness: 0.265 in.	0.265	5.563			
1	23	123	Screen	PVC	OD: 5.563 in.   SDR: 21   Thickness: 0.265 in.	0.265	5.563	Milled Slots	0.032	

Annular Material					
Depth from Surface Feet to Feet		Fill	Fill Type Details	Filter Pack Size	Description
0	2	Cement	Portland Cement/Neat Cement		
2	20	Bentonite	Other Bentonite	grout seal	
20	123	Filter Pack	Other Gravel Pack	1/8"	

**Other Observations:**  
 Letter of approval from MCCSD to drill in the village.

GPM improved after continued development the day after well seal completed. GPM 21.

Borehole Specifications		
Depth from Surface Feet to Feet		Borehole Diameter (inches)
0	45	11.75
45	125	7.5

Certification Statement			
I, the undersigned, certify that this report is complete and accurate to the best of my knowledge and belief			
Name	SUPERIOR PUMP & DRILLING INC		
	Person, Firm or Corporation		
P O BOX 1551	FORT BRAGG	CA	95437
Address	City	State	Zip
Signed	<i>electronic signature received</i>	03/27/2023	495399
	C-57 Licensed Water Well Contractor	Date Signed	C-57 License Number

Attachments
44900 LLrd final ink.jpg - Location Map

DWR Use Only			
CSG #	State Well Number	Site Code	Local Well Number
		N	W
Latitude Deg/Min/Sec		Longitude Deg/Min/Sec	
TRS:			
APN:			

STATE OF CALIFORNIA  
**WELL COMPLETION REPORT**

OWNER'S WELL No. 5813

Date Work Began 8/8/06 Ended 8/8/06

Local Permit Agency MENDOCINO

Permit No. WW20603 Permit Date 5-17-2006

No. **0929331**

DWR USE ONLY - DO NOT FILL IN

STATE WELL NO. STATION NO.											
LATITUDE						LONGITUDE					
APN / TRS / OTHER											

**GEOLOGIC LOG**

ORIENTATION Vertical Degree of Angle \_\_\_\_\_

DEPTH FROM SURFACE DEPTH TO FIRST WATER (ft.) BELOW SURFACE

Fl.	Fl.	DESCRIPTION
0	2	topsoil
2	10	brown sandy clay
10	190	sandstone
190	220	shale with clay

WELL OWNER: **BILL & KAREN WILSON**

Address: **2263 MIMOSA COURT**

City: **LOS ALTOS** County: **CA 94024**

Address: **44701 LITTLE LAKE ROAD**

City: **MENDOCINO** County: **MENDOCINO**

Apn Book **118** Page **140** Parcel **23**

Township \_\_\_\_\_ Range \_\_\_\_\_ Section \_\_\_\_\_ 1/4 \_\_\_\_\_ 1/4

Latitude \_\_\_\_\_ NORTH Longitude \_\_\_\_\_ WEST

Deg. Min. Sec. \_\_\_\_\_ Deg. Min. Sec. \_\_\_\_\_

LOCATION SKETCH \_\_\_\_\_

ACTIVITY **NEWWELL** PLANNED USE(S) **Domestic Water**

DRILLING METHOD **ROTARY AIR** FLUID \_\_\_\_\_

DEPTH OF STATIC WATER LEVEL **80** (Ft.) & DATE MEASURED **Aug 8 2006**

ESTIMATED YIELD \* **1.5** (G.P.M.) & TEST TYPE **Air**

TEST LENGTH **2** (Hrs) TOTAL DRAWDOWN **210** (FT.)

\*May not be representative of a well's long-term yield.

TOTAL DEPTH OF BORING **220** (Feet)

TOTAL DEPTH OF COMPLETED WELL **220** (Feet)

CASING					ANNULAR MATERIAL			
DEPTH FROM SURFACE	BORE-HOLE DIA.	TYPE	Material / Grade	Dia.	Gauge	Slot size	Seal Material	Filter Pack (Type / Size)
0	20	10 3/8	BLANK	E480 PVC	5	160		
20	80	7 1/2	BLANK	E480 PVC	5	160	BENTONITE	
80	220	7 1/2	PERES	E480 PVC	5	200		Pea Gravel

- Attachments
- Geologic Log
  - Well Construction Diagram
  - Geophysical Logs
  - Soil Water Chemical Analyses
  - Other

**CERTIFICATION STATEMENT**

I, the undersigned, certify that this report is complete and accurate to the best of my knowledge and belief.

NAME **Fisch Bros. Drilling, Inc**  
 (PERSON, FIRM, OR CORPORATION) (TYPED OR PRINTED)  
**5001 Gravenstein Hwy Nc Sebastopol CA 95472**

Signed Date This **8/8/06** **080906** **399228**  
 WELL DRILLER / AUTHORIZED REPRESENTATIVE DATE SIGNED C-57 LICENSE NUMBER

WELL COMPLETION REPORT

No. 0931978

OWNER'S WELL No. 5732

Date Work Began 6/15/06 Ended 6/15/06

Local Permit Agency MENDOCINO

Permit No. WW20603

Permit Date 5-17-2006

GEOLOGIC LOG

DWR USE ONLY — DO NOT FILL IN

77M77W310

STATE WELL NO. STATION NO.

LATITUDE LONGITUDE

APN / TRS / OTHER

WELL OWNER

ORIENTATION Vertical Degree of Angle

DEPTH FROM SURFACE DEPTH TO FIRST WATER (ft.) BELOW SURFACE

DEPTH FROM SURFACE Ft.	DEPTH TO FIRST WATER Ft.	DESCRIPTION
0	2	topsoil
2	15	brown sand with birds eye gravel
15	18	large cemented gravel
18	22	blue clay
22	130	sandstone
130	160	shale and clay

WELL LOCATION

Address 44701 LITTLE LAKE ROAD  
 City MENDOCINO County MENDOCINO  
 Apr Book 119 Page 140 Parcel 23  
 Township or Range Section 1/4 1/4  
 Latitude or NORTH Longitude WEST  
 Deg. Min. Sec. LOCATION SKETCH

ACTIVITY NEW WELL PLANNED USE(S) Domestic Water  
 DRILLING METHOD ROTARY AIR FLUID  
 DEPTH OF STATIC WATER LEVEL 18 (Ft.) & DATE MEASURED Jun 14, 2006  
 ESTIMATED YIELD \* 1 (G.P.M.) & TEST TYPE Airlift  
 TEST LENGTH 2.5 (Hrs.) TOTAL DRAWDOWN 155 (FT.)  
 \*May not be representative of a well's long-term yield.

TOTAL DEPTH OF BORING 160 (Feet)  
 TOTAL DEPTH OF COMPLETED WELL 160 (Feet)

CASING							ANNULAR MATERIAL		
DEPTH FROM SURFACE Ft.	BORE-HOLE DIA.	TYPE	Material / Grade	Dia.	Gauge	Slot size	DEPTH FROM SURFACE Ft.	Seal Material	Filter Pack (Type / Size)
0	25	10.5/8	BLANK	F480 PVC	5	200	0	20	BENTONITE
25	145	8 3/4	PEFES	F480 PVC	5	200	20	160	Pea Gravel
145	160	8 3/4	PEFES	F480 PVC	5	160			

- Attachments
- Geologic Log
  - Well Construction Diagram
  - Geophysical Logs
  - Soil Water Chemical Analyses
  - Other

CERTIFICATION STATEMENT  
 I, the undersigned, certify that this report is complete and accurate to the best of my knowledge and belief.

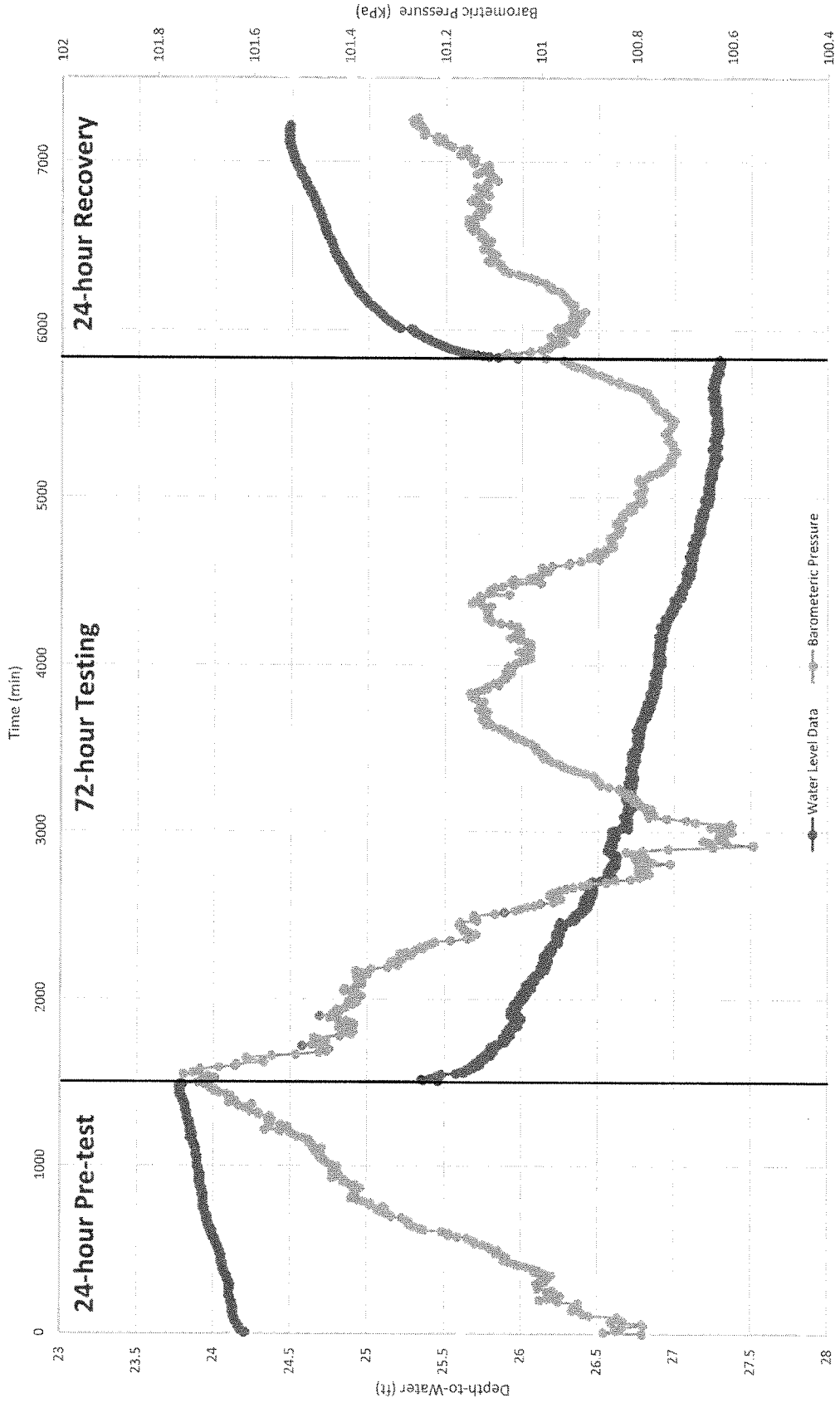
NAME Fisch Bros Drilling, Inc  
 (PERSON, FIRM, OR CORPORATION) (TYPED OR PRINTED)  
 5001 GRAVENSTEIN HWY NO SEBASTOPOI CA 9547

Signed DALE THEISS *Dale Theiss* 06/16/06 399226  
 WELL DRILLER / AUTHORIZED REPRESENTATIVE DATE SIGNED C-57 LICENSE NUMBER

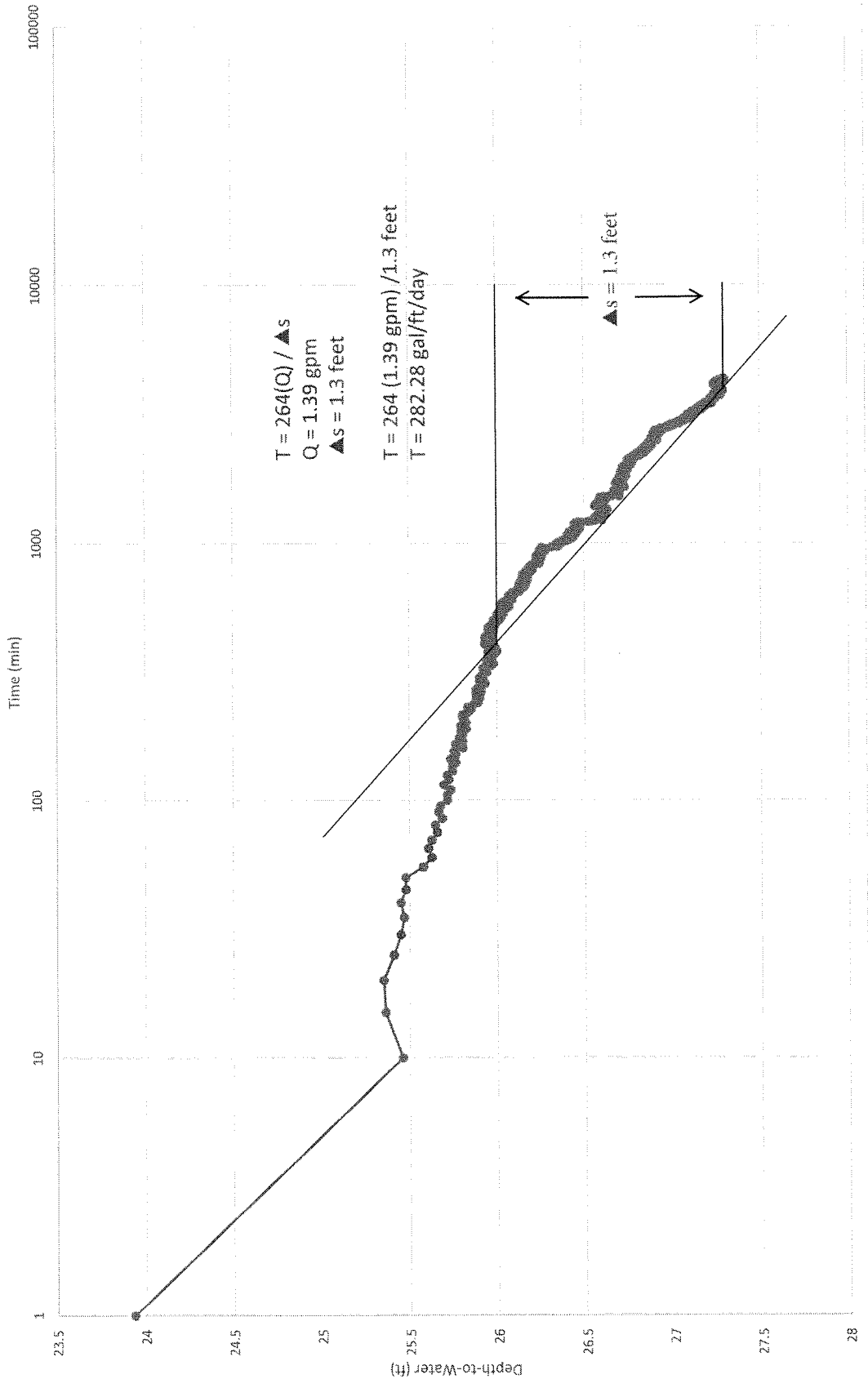


**APPENDIX D**  
**WELL YIELD TEST DATA AND GRAPHS**

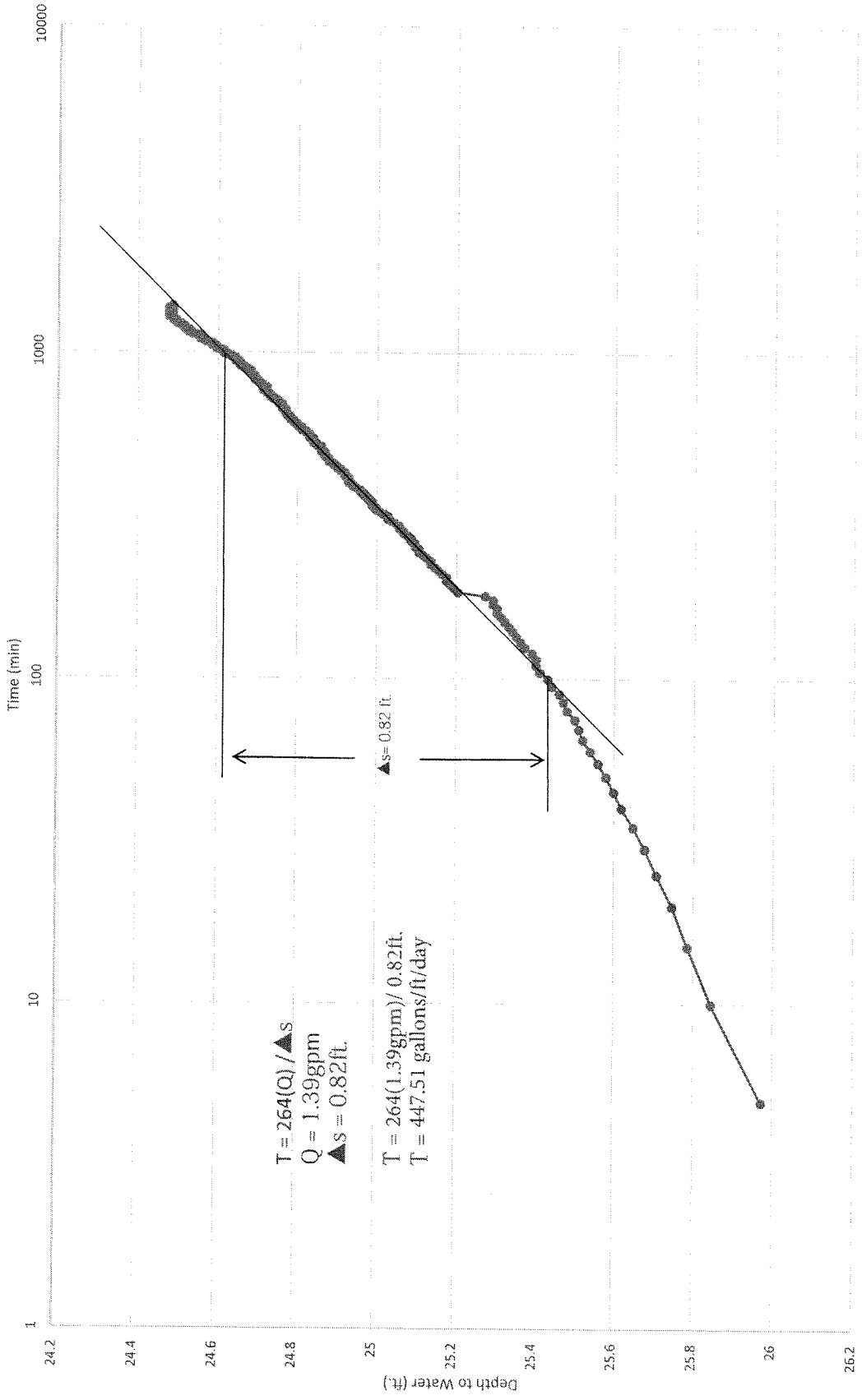
Complete Site Well Test Graph  
44780 Little Lake Road  
Mendocino, CA



Site Well Pumping Curve  
 44780 Little Lake Road  
 Mendocino, CA

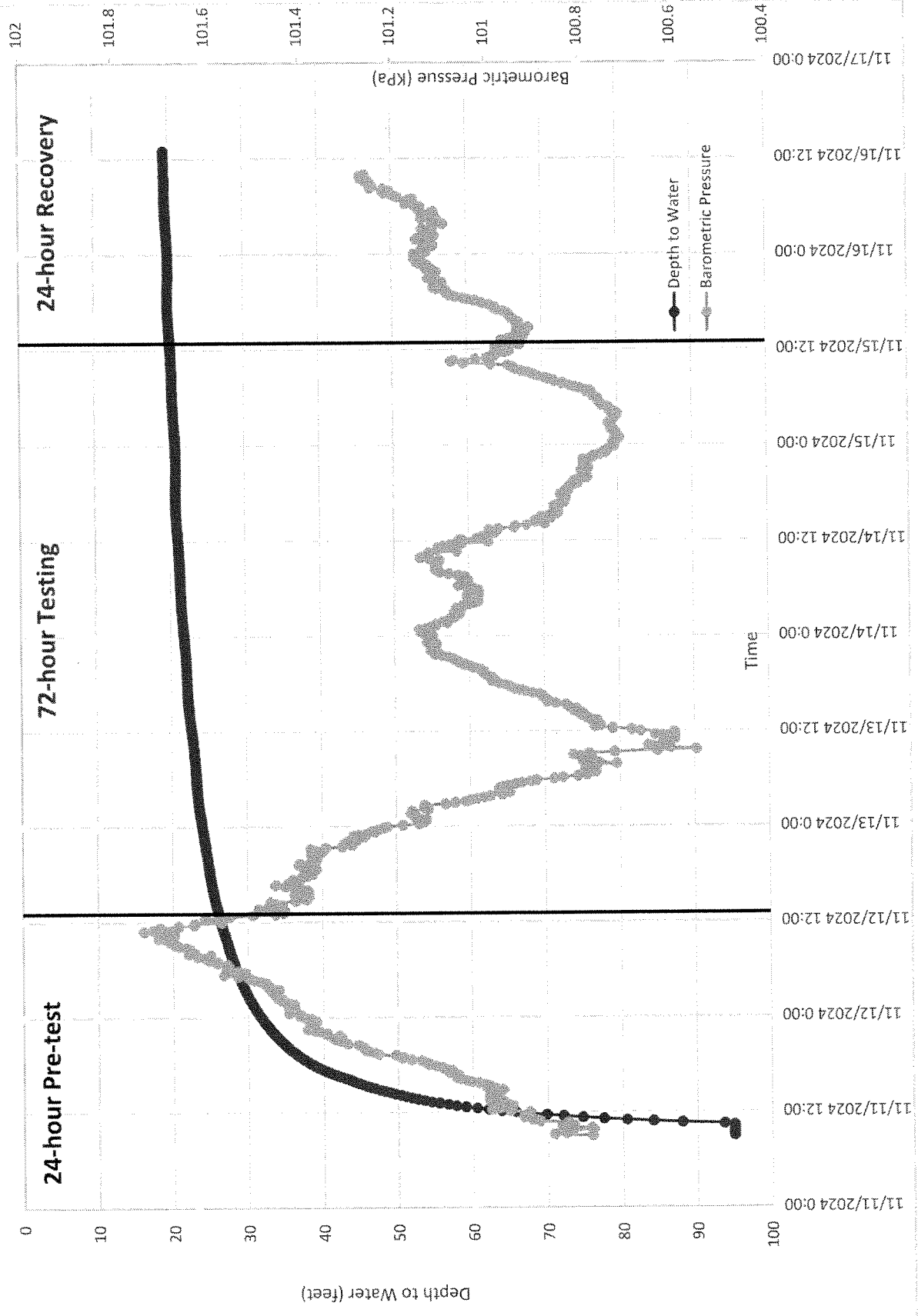


Site Well - Recovery Curve  
 44780 Little Lake Road  
 Mendocino, CA

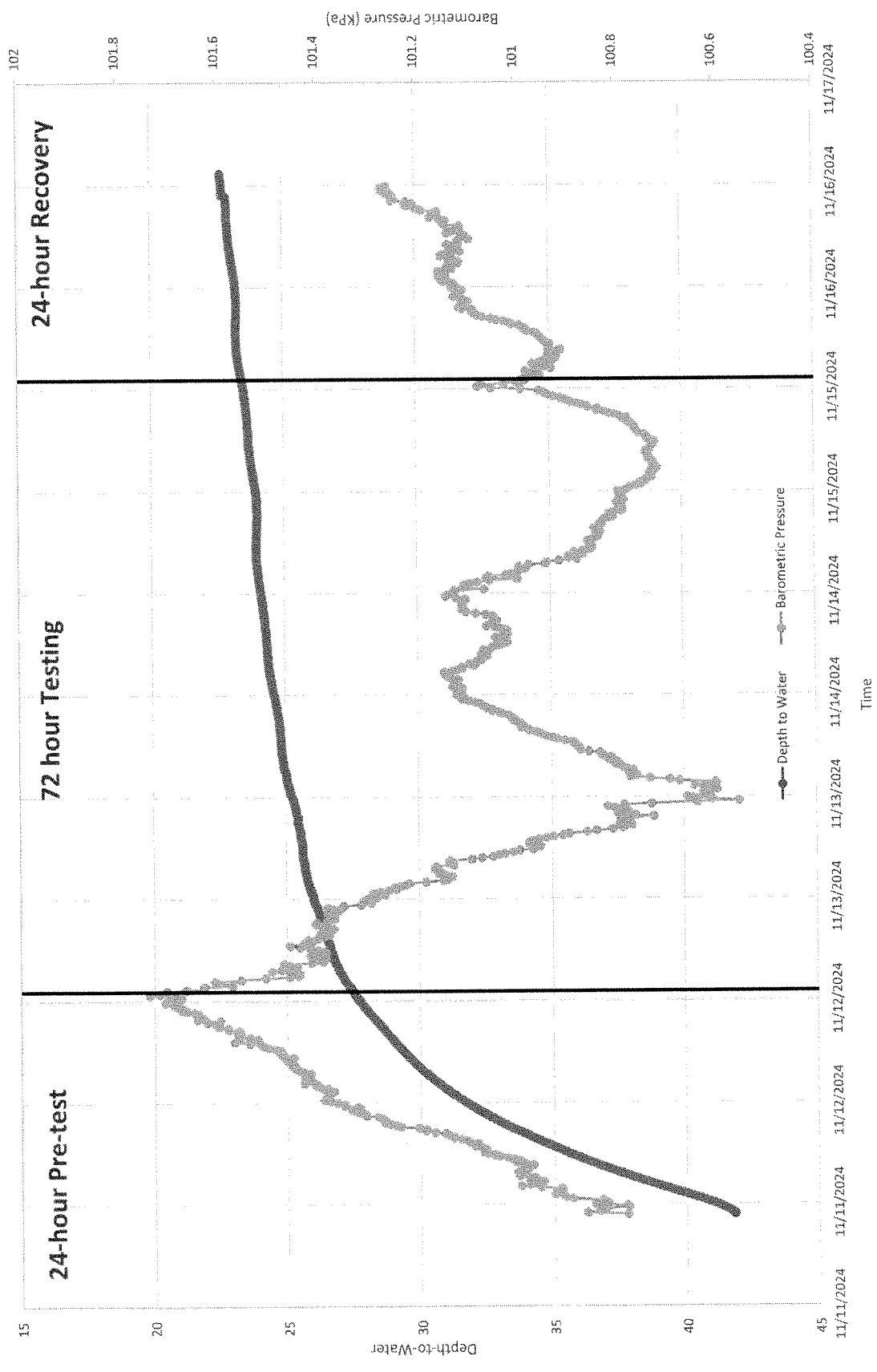




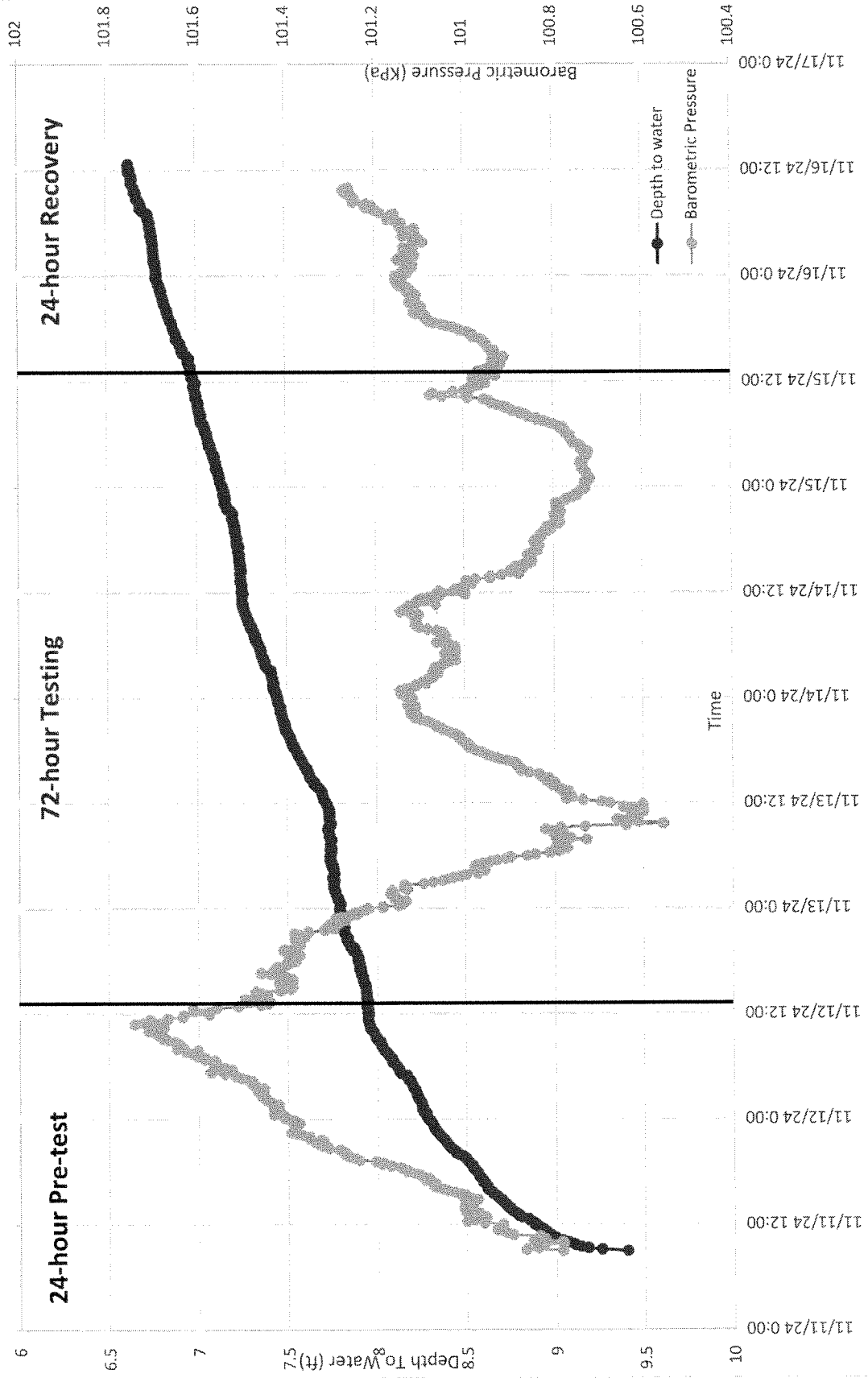
# Observation Well HR-13



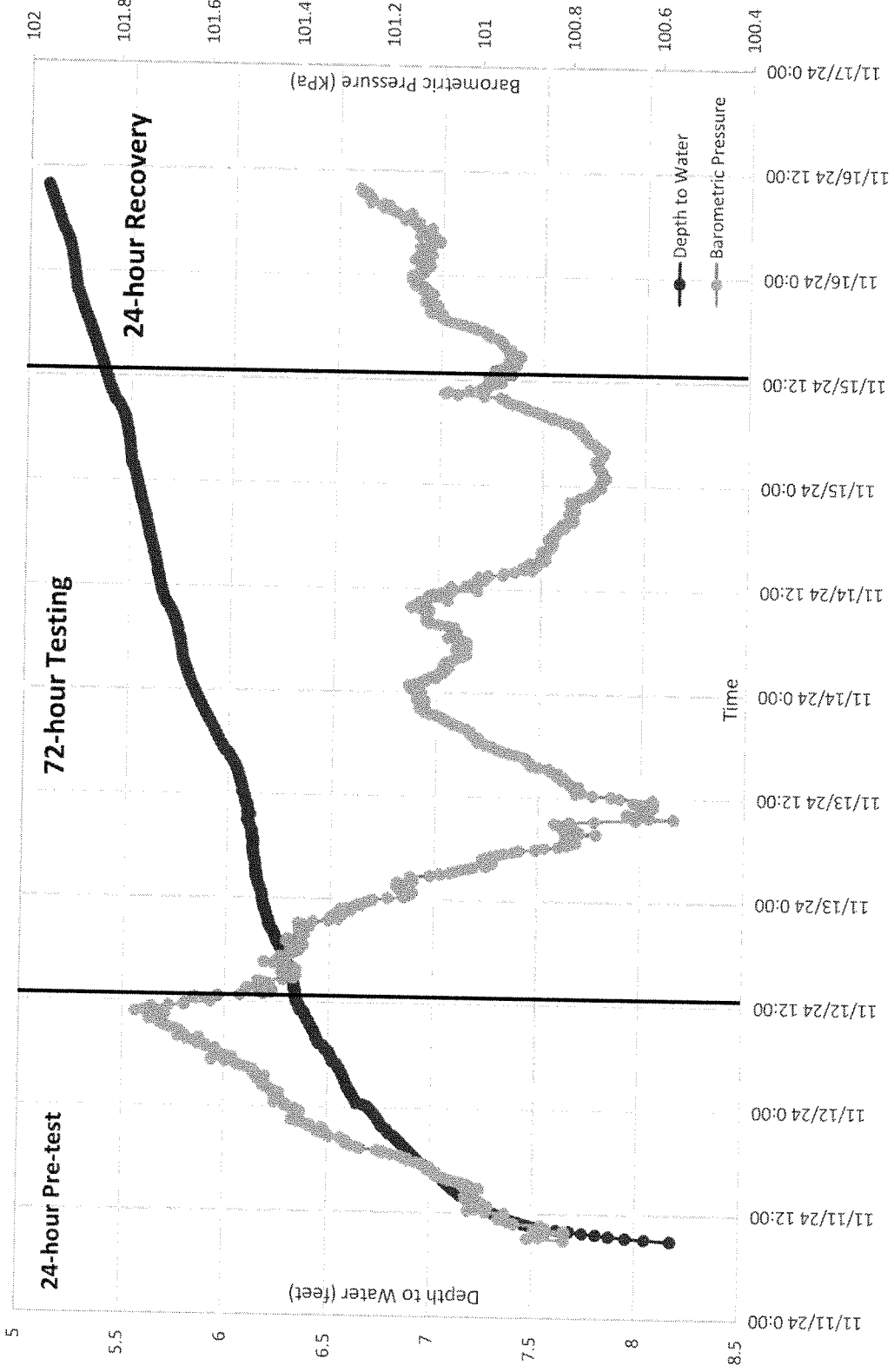
Observation Well Hansen Well



Observation Well HR-4



Observation Well HR-#11



Observation Well Hansen Well

Date and Time	Depth to Water	Date and Time	Depth to Water	Date and Time	Depth to Water
11/11/24 10:50 AM	41.8	11/11/24 10:00 PM	32.814	11/12/24 9:10 AM	28.483
11/11/24 11:00 AM	41.761	11/11/24 10:10 PM	32.716	11/12/24 9:20 AM	28.434
11/11/24 11:10 AM	41.682	11/11/24 10:20 PM	32.617	11/12/24 9:30 AM	28.385
11/11/24 11:20 AM	41.594	11/11/24 10:30 PM	32.509	11/12/24 9:40 AM	28.336
11/11/24 11:30 AM	41.476	11/11/24 10:40 PM	32.42	11/12/24 9:50 AM	28.287
11/11/24 11:40 AM	41.377	11/11/24 10:50 PM	32.332	11/12/24 10:00 AM	28.247
11/11/24 11:50 AM	41.259	11/11/24 11:00 PM	32.243	11/12/24 10:10 AM	28.198
11/11/24 12:00 PM	41.131	11/11/24 11:10 PM	32.145	11/12/24 10:20 AM	28.159
11/11/24 12:10 PM	41.013	11/11/24 11:20 PM	32.066	11/12/24 10:30 AM	28.109
11/11/24 12:20 PM	40.865	11/11/24 11:30 PM	31.977	11/12/24 10:40 AM	28.06
11/11/24 12:30 PM	40.708	11/11/24 11:40 PM	31.889	11/12/24 10:50 AM	28.011
11/11/24 12:40 PM	40.56	11/11/24 11:50 PM	31.81	11/12/24 11:00 AM	27.972
11/11/24 12:50 PM	40.383	11/12/24 12:00 AM	31.722	11/12/24 11:10 AM	27.922
11/11/24 1:00 PM	40.216	11/12/24 12:10 AM	31.633	11/12/24 11:20 AM	27.873
11/11/24 1:10 PM	40.039	11/12/24 12:20 AM	31.554	11/12/24 11:30 AM	27.844
11/11/24 1:20 PM	39.861	11/12/24 12:30 AM	31.466	11/12/24 11:40 AM	27.804
11/11/24 1:30 PM	39.684	11/12/24 12:40 AM	31.387	11/12/24 11:50 AM	27.765
11/11/24 1:40 PM	39.517	11/12/24 12:50 AM	31.308	11/12/24 12:00 PM	27.726
11/11/24 1:50 PM	39.35	11/12/24 1:00 AM	31.229	11/12/24 12:10 PM	27.676
11/11/24 2:00 PM	39.172	11/12/24 1:10 AM	31.151	11/12/24 12:20 PM	27.637
11/11/24 2:10 PM	39.005	11/12/24 1:20 AM	31.082	11/12/24 12:30 PM	27.598
11/11/24 2:20 PM	38.838	11/12/24 1:30 AM	31.013	11/12/24 12:40 PM	27.568
11/11/24 2:30 PM	38.67	11/12/24 1:40 AM	30.944	11/12/24 12:50 PM	27.529
11/11/24 2:40 PM	38.513	11/12/24 1:50 AM	30.865	11/12/24 1:00 PM	27.499
11/11/24 2:50 PM	38.346	11/12/24 2:00 AM	30.796	11/12/24 1:10 PM	27.47
11/11/24 3:00 PM	38.188	11/12/24 2:10 AM	30.727	11/12/24 1:20 PM	27.43
11/11/24 3:10 PM	38.031	11/12/24 2:20 AM	30.668	11/12/24 1:30 PM	27.391
11/11/24 3:20 PM	37.873	11/12/24 2:30 AM	30.59	11/12/24 1:40 PM	27.332
11/11/24 3:30 PM	37.716	11/12/24 2:40 AM	30.521	11/12/24 1:50 PM	27.302
11/11/24 3:40 PM	37.568	11/12/24 2:50 AM	30.452	11/12/24 2:00 PM	27.263
11/11/24 3:50 PM	37.411	11/12/24 3:00 AM	30.393	11/12/24 2:10 PM	27.233
11/11/24 4:00 PM	37.253	11/12/24 3:10 AM	30.324	11/12/24 2:20 PM	27.184
11/11/24 4:10 PM	37.105	11/12/24 3:20 AM	30.265	11/12/24 2:30 PM	27.155
11/11/24 4:20 PM	36.958	11/12/24 3:30 AM	30.206	11/12/24 2:40 PM	27.135
11/11/24 4:30 PM	36.82	11/12/24 3:40 AM	30.137	11/12/24 2:50 PM	27.105
11/11/24 4:40 PM	36.672	11/12/24 3:50 AM	30.078	11/12/24 3:00 PM	27.076
11/11/24 4:50 PM	36.535	11/12/24 4:00 AM	30.019	11/12/24 3:10 PM	27.046
11/11/24 5:00 PM	36.387	11/12/24 4:10 AM	29.97	11/12/24 3:20 PM	27.017
11/11/24 5:10 PM	36.259	11/12/24 4:20 AM	29.901	11/12/24 3:30 PM	26.977
11/11/24 5:20 PM	36.111	11/12/24 4:30 AM	29.842	11/12/24 3:40 PM	26.958
11/11/24 5:30 PM	35.974	11/12/24 4:40 AM	29.783	11/12/24 3:50 PM	26.928
11/11/24 5:40 PM	35.846	11/12/24 4:50 AM	29.733	11/12/24 4:00 PM	26.909
11/11/24 5:50 PM	35.708	11/12/24 5:00 AM	29.684	11/12/24 4:10 PM	26.879
11/11/24 6:00 PM	35.58	11/12/24 5:10 AM	29.635	11/12/24 4:20 PM	26.85
11/11/24 6:10 PM	35.462	11/12/24 5:20 AM	29.566	11/12/24 4:30 PM	26.82
11/11/24 6:20 PM	35.344	11/12/24 5:30 AM	29.527	11/12/24 4:40 PM	26.79
11/11/24 6:30 PM	35.235	11/12/24 5:40 AM	29.477	11/12/24 4:50 PM	26.79
11/11/24 6:40 PM	35.107	11/12/24 5:50 AM	29.418	11/12/24 5:00 PM	26.771
11/11/24 6:50 PM	34.989	11/12/24 6:00 AM	29.369	11/12/24 5:10 PM	26.741
11/11/24 7:00 PM	34.861	11/12/24 6:10 AM	29.33	11/12/24 5:20 PM	26.731
11/11/24 7:10 PM	34.743	11/12/24 6:20 AM	29.281	11/12/24 5:30 PM	26.722
11/11/24 7:20 PM	34.596	11/12/24 6:30 AM	29.231	11/12/24 5:40 PM	26.702
11/11/24 7:30 PM	34.477	11/12/24 6:40 AM	29.182	11/12/24 5:50 PM	26.682
11/11/24 7:40 PM	34.359	11/12/24 6:50 AM	29.133	11/12/24 6:00 PM	26.663
11/11/24 7:50 PM	34.241	11/12/24 7:00 AM	29.084	11/12/24 6:10 PM	26.633
11/11/24 8:00 PM	34.133	11/12/24 7:10 AM	29.035	11/12/24 6:20 PM	26.623
11/11/24 8:10 PM	34.035	11/12/24 7:20 AM	28.995	11/12/24 6:30 PM	26.613
11/11/24 8:20 PM	33.916	11/12/24 7:30 AM	28.946	11/12/24 6:40 PM	26.603
11/11/24 8:30 PM	33.808	11/12/24 7:40 AM	28.907	11/12/24 6:50 PM	26.584
11/11/24 8:40 PM	33.68	11/12/24 7:50 AM	28.857	11/12/24 7:00 PM	26.564
11/11/24 8:50 PM	33.562	11/12/24 8:00 AM	28.798	11/12/24 7:10 PM	26.535
11/11/24 9:00 PM	33.434	11/12/24 8:10 AM	28.769	11/12/24 7:20 PM	26.515
11/11/24 9:10 PM	33.326	11/12/24 8:20 AM	28.71	11/12/24 7:30 PM	26.505
11/11/24 9:20 PM	33.218	11/12/24 8:30 AM	28.67	11/12/24 7:40 PM	26.485
11/11/24 9:30 PM	33.119	11/12/24 8:40 AM	28.631	11/12/24 7:50 PM	26.476
11/11/24 9:40 PM	33.011	11/12/24 8:50 AM	28.582	11/12/24 8:00 PM	26.456
11/11/24 9:50 PM	32.913	11/12/24 9:00 AM	28.523	11/12/24 8:10 PM	26.436

Observation Well Hansen Well

Date and Time	Depth to Water	Date and Time	Depth to Water	Date and Time	Depth to Water
11/12/24 8:20 PM	26.416	11/13/24 7:30 AM	25.54	11/13/24 6:40 PM	24.832
11/12/24 8:30 PM	26.397	11/13/24 7:40 AM	25.54	11/13/24 6:50 PM	24.822
11/12/24 8:40 PM	26.387	11/13/24 7:50 AM	25.55	11/13/24 7:00 PM	24.822
11/12/24 8:50 PM	26.367	11/13/24 8:00 AM	25.531	11/13/24 7:10 PM	24.822
11/12/24 9:00 PM	26.348	11/13/24 8:10 AM	25.511	11/13/24 7:20 PM	24.812
11/12/24 9:10 PM	26.328	11/13/24 8:20 AM	25.501	11/13/24 7:30 PM	24.812
11/12/24 9:20 PM	26.318	11/13/24 8:30 AM	25.491	11/13/24 7:40 PM	24.802
11/12/24 9:30 PM	26.308	11/13/24 8:40 AM	25.481	11/13/24 7:50 PM	24.802
11/12/24 9:40 PM	26.298	11/13/24 8:50 AM	25.462	11/13/24 8:00 PM	24.792
11/12/24 9:50 PM	26.269	11/13/24 9:00 AM	25.442	11/13/24 8:10 PM	24.802
11/12/24 10:00 PM	26.249	11/13/24 9:10 AM	25.442	11/13/24 8:20 PM	24.783
11/12/24 10:10 PM	26.229	11/13/24 9:20 AM	25.442	11/13/24 8:30 PM	24.783
11/12/24 10:20 PM	26.21	11/13/24 9:30 AM	25.462	11/13/24 8:40 PM	24.773
11/12/24 10:30 PM	26.2	11/13/24 9:40 AM	25.462	11/13/24 8:50 PM	24.773
11/12/24 10:40 PM	26.18	11/13/24 9:50 AM	25.432	11/13/24 9:00 PM	24.763
11/12/24 10:50 PM	26.151	11/13/24 10:00 AM	25.403	11/13/24 9:10 PM	24.763
11/12/24 11:00 PM	26.141	11/13/24 10:10 AM	25.383	11/13/24 9:20 PM	24.743
11/12/24 11:10 PM	26.121	11/13/24 10:20 AM	25.393	11/13/24 9:30 PM	24.733
11/12/24 11:20 PM	26.092	11/13/24 10:30 AM	25.373	11/13/24 9:40 PM	24.733
11/12/24 11:30 PM	26.072	11/13/24 10:40 AM	25.363	11/13/24 9:50 PM	24.714
11/12/24 11:40 PM	26.062	11/13/24 10:50 AM	25.353	11/13/24 10:00 PM	24.704
11/12/24 11:50 PM	26.033	11/13/24 11:00 AM	25.344	11/13/24 10:10 PM	24.694
11/13/24 12:00 AM	26.023	11/13/24 11:10 AM	25.324	11/13/24 10:20 PM	24.684
11/13/24 12:10 AM	26.013	11/13/24 11:20 AM	25.304	11/13/24 10:30 PM	24.684
11/13/24 12:20 AM	26.003	11/13/24 11:30 AM	25.285	11/13/24 10:40 PM	24.674
11/13/24 12:30 AM	25.983	11/13/24 11:40 AM	25.285	11/13/24 10:50 PM	24.664
11/13/24 12:40 AM	25.954	11/13/24 11:50 AM	25.265	11/13/24 11:00 PM	24.655
11/13/24 12:50 AM	25.944	11/13/24 12:00 PM	25.235	11/13/24 11:10 PM	24.645
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11/13/24 1:20 AM	25.885	11/13/24 12:30 PM	25.176	11/13/24 11:40 PM	24.615
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11/13/24 2:00 AM	25.806	11/13/24 1:10 PM	25.127	11/14/24 12:20 AM	24.566
11/13/24 2:10 AM	25.796	11/13/24 1:20 PM	25.107	11/14/24 12:30 AM	24.546
11/13/24 2:20 AM	25.777	11/13/24 1:30 PM	25.098	11/14/24 12:40 AM	24.537
11/13/24 2:30 AM	25.777	11/13/24 1:40 PM	25.088	11/14/24 12:50 AM	24.527
11/13/24 2:40 AM	25.757	11/13/24 1:50 PM	25.068	11/14/24 1:00 AM	24.527
11/13/24 2:50 AM	25.757	11/13/24 2:00 PM	25.058	11/14/24 1:10 AM	24.517
11/13/24 3:00 AM	25.737	11/13/24 2:10 PM	25.048	11/14/24 1:20 AM	24.507
11/13/24 3:10 AM	25.737	11/13/24 2:20 PM	25.038	11/14/24 1:30 AM	24.487
11/13/24 3:20 AM	25.718	11/13/24 2:30 PM	25.029	11/14/24 1:40 AM	24.497
11/13/24 3:30 AM	25.708	11/13/24 2:40 PM	25.029	11/14/24 1:50 AM	24.477
11/13/24 3:40 AM	25.698	11/13/24 2:50 PM	25.009	11/14/24 2:00 AM	24.468
11/13/24 3:50 AM	25.698	11/13/24 3:00 PM	24.999	11/14/24 2:10 AM	24.458
11/13/24 4:00 AM	25.688	11/13/24 3:10 PM	24.96	11/14/24 2:20 AM	24.448
11/13/24 4:10 AM	25.678	11/13/24 3:20 PM	24.96	11/14/24 2:30 AM	24.438
11/13/24 4:20 AM	25.668	11/13/24 3:30 PM	24.94	11/14/24 2:40 AM	24.428
11/13/24 4:30 AM	25.659	11/13/24 3:40 PM	24.93	11/14/24 2:50 AM	24.418
11/13/24 4:40 AM	25.639	11/13/24 3:50 PM	24.92	11/14/24 3:00 AM	24.418
11/13/24 4:50 AM	25.639	11/13/24 4:00 PM	24.92	11/14/24 3:10 AM	24.399
11/13/24 5:00 AM	25.629	11/13/24 4:10 PM	24.911	11/14/24 3:20 AM	24.399
11/13/24 5:10 AM	25.619	11/13/24 4:20 PM	24.901	11/14/24 3:30 AM	24.389
11/13/24 5:20 AM	25.619	11/13/24 4:30 PM	24.891	11/14/24 3:40 AM	24.389
11/13/24 5:30 AM	25.609	11/13/24 4:40 PM	24.891	11/14/24 3:50 AM	24.389
11/13/24 5:40 AM	25.619	11/13/24 4:50 PM	24.881	11/14/24 4:00 AM	24.369
11/13/24 5:50 AM	25.609	11/13/24 5:00 PM	24.871	11/14/24 4:10 AM	24.369
11/13/24 6:00 AM	25.609	11/13/24 5:10 PM	24.861	11/14/24 4:20 AM	24.369
11/13/24 6:10 AM	25.609	11/13/24 5:20 PM	24.861	11/14/24 4:30 AM	24.359
11/13/24 6:20 AM	25.609	11/13/24 5:30 PM	24.851	11/14/24 4:40 AM	24.359
11/13/24 6:30 AM	25.6	11/13/24 5:40 PM	24.851	11/14/24 4:50 AM	24.35
11/13/24 6:40 AM	25.6	11/13/24 5:50 PM	24.851	11/14/24 5:00 AM	24.34
11/13/24 6:50 AM	25.59	11/13/24 6:00 PM	24.842	11/14/24 5:10 AM	24.34
11/13/24 7:00 AM	25.57	11/13/24 6:10 PM	24.842	11/14/24 5:20 AM	24.34
11/13/24 7:10 AM	25.56	11/13/24 6:20 PM	24.832	11/14/24 5:30 AM	24.34
11/13/24 7:20 AM	25.56	11/13/24 6:30 PM	24.832	11/14/24 5:40 AM	24.34

Observation Well Hansen Well

Date and Time	Depth to Water	Date and Time	Depth to Water	Date and Time	Depth to Water
11/14/24 5:50 AM	24.34	11/14/24 5:00 PM	23.956	11/15/24 4:10 AM	23.739
11/14/24 6:00 AM	24.33	11/14/24 5:10 PM	23.956	11/15/24 4:20 AM	23.729
11/14/24 6:10 AM	24.32	11/14/24 5:20 PM	23.946	11/15/24 4:30 AM	23.72
11/14/24 6:20 AM	24.32	11/14/24 5:30 PM	23.956	11/15/24 4:40 AM	23.729
11/14/24 6:30 AM	24.31	11/14/24 5:40 PM	23.946	11/15/24 4:50 AM	23.72
11/14/24 6:40 AM	24.31	11/14/24 5:50 PM	23.956	11/15/24 5:00 AM	23.71
11/14/24 6:50 AM	24.31	11/14/24 6:00 PM	23.956	11/15/24 5:10 AM	23.7
11/14/24 7:00 AM	24.3	11/14/24 6:10 PM	23.956	11/15/24 5:20 AM	23.7
11/14/24 7:10 AM	24.3	11/14/24 6:20 PM	23.956	11/15/24 5:30 AM	23.69
11/14/24 7:20 AM	24.3	11/14/24 6:30 PM	23.966	11/15/24 5:40 AM	23.69
11/14/24 7:30 AM	24.3	11/14/24 6:40 PM	23.956	11/15/24 5:50 AM	23.69
11/14/24 7:40 AM	24.29	11/14/24 6:50 PM	23.966	11/15/24 6:00 AM	23.68
11/14/24 7:50 AM	24.281	11/14/24 7:00 PM	23.966	11/15/24 6:10 AM	23.68
11/14/24 8:00 AM	24.271	11/14/24 7:10 PM	23.976	11/15/24 6:20 AM	23.68
11/14/24 8:10 AM	24.261	11/14/24 7:20 PM	23.976	11/15/24 6:30 AM	23.67
11/14/24 8:20 AM	24.261	11/14/24 7:30 PM	23.976	11/15/24 6:40 AM	23.68
11/14/24 8:30 AM	24.261	11/14/24 7:40 PM	23.976	11/15/24 6:50 AM	23.68
11/14/24 8:40 AM	24.261	11/14/24 7:50 PM	23.985	11/15/24 7:00 AM	23.67
11/14/24 8:50 AM	24.251	11/14/24 8:00 PM	23.985	11/15/24 7:10 AM	23.67
11/14/24 9:00 AM	24.251	11/14/24 8:10 PM	23.985	11/15/24 7:20 AM	23.661
11/14/24 9:10 AM	24.241	11/14/24 8:20 PM	23.985	11/15/24 7:30 AM	23.661
11/14/24 9:20 AM	24.231	11/14/24 8:30 PM	23.985	11/15/24 7:40 AM	23.651
11/14/24 9:30 AM	24.231	11/14/24 8:40 PM	23.985	11/15/24 7:50 AM	23.651
11/14/24 9:40 AM	24.222	11/14/24 8:50 PM	23.995	11/15/24 8:00 AM	23.651
11/14/24 9:50 AM	24.212	11/14/24 9:00 PM	23.995	11/15/24 8:10 AM	23.641
11/14/24 10:00 AM	24.202	11/14/24 9:10 PM	23.995	11/15/24 8:20 AM	23.641
11/14/24 10:10 AM	24.192	11/14/24 9:20 PM	23.995	11/15/24 8:30 AM	23.641
11/14/24 10:20 AM	24.192	11/14/24 9:30 PM	23.995	11/15/24 8:40 AM	23.631
11/14/24 10:30 AM	24.182	11/14/24 9:40 PM	23.995	11/15/24 8:50 AM	23.631
11/14/24 10:40 AM	24.182	11/14/24 9:50 PM	23.985	11/15/24 9:00 AM	23.631
11/14/24 10:50 AM	24.172	11/14/24 10:00 PM	23.985	11/15/24 9:10 AM	23.621
11/14/24 11:00 AM	24.172	11/14/24 10:10 PM	23.985	11/15/24 9:20 AM	23.611
11/14/24 11:10 AM	24.153	11/14/24 10:20 PM	23.985	11/15/24 9:30 AM	23.611
11/14/24 11:20 AM	24.143	11/14/24 10:30 PM	23.985	11/15/24 9:40 AM	23.601
11/14/24 11:30 AM	24.143	11/14/24 10:40 PM	23.985	11/15/24 9:50 AM	23.601
11/14/24 11:40 AM	24.133	11/14/24 10:50 PM	23.985	11/15/24 10:00 AM	23.592
11/14/24 11:50 AM	24.133	11/14/24 11:00 PM	23.985	11/15/24 10:10 AM	23.592
11/14/24 12:00 PM	24.113	11/14/24 11:10 PM	23.976	11/15/24 10:20 AM	23.582
11/14/24 12:10 PM	24.113	11/14/24 11:20 PM	23.966	11/15/24 10:30 AM	23.572
11/14/24 12:20 PM	24.103	11/14/24 11:30 PM	23.966	11/15/24 10:40 AM	23.562
11/14/24 12:30 PM	24.094	11/14/24 11:40 PM	23.966	11/15/24 10:50 AM	23.552
11/14/24 12:40 PM	24.084	11/14/24 11:50 PM	23.956	11/15/24 11:00 AM	23.552
11/14/24 12:50 PM	24.084	11/15/24 12:00 AM	23.946	11/15/24 11:10 AM	23.542
11/14/24 1:00 PM	24.074	11/15/24 12:10 AM	23.946	11/15/24 11:20 AM	23.533
11/14/24 1:10 PM	24.064	11/15/24 12:20 AM	23.936	11/15/24 11:30 AM	23.533
11/14/24 1:20 PM	24.054	11/15/24 12:30 AM	23.926	11/15/24 11:40 AM	23.523
11/14/24 1:30 PM	24.044	11/15/24 12:40 AM	23.916	11/15/24 11:50 AM	23.523
11/14/24 1:40 PM	24.044	11/15/24 12:50 AM	23.916	11/15/24 12:00 PM	23.513
11/14/24 1:50 PM	24.035	11/15/24 1:00 AM	23.897	11/15/24 12:10 PM	23.503
11/14/24 2:00 PM	24.025	11/15/24 1:10 AM	23.887	11/15/24 12:20 PM	23.493
11/14/24 2:10 PM	24.025	11/15/24 1:20 AM	23.887	11/15/24 12:30 PM	23.493
11/14/24 2:20 PM	24.015	11/15/24 1:30 AM	23.867	11/15/24 12:40 PM	23.474
11/14/24 2:30 PM	24.015	11/15/24 1:40 AM	23.857	11/15/24 12:50 PM	23.474
11/14/24 2:40 PM	24.005	11/15/24 1:50 AM	23.857	11/15/24 1:00 PM	23.454
11/14/24 2:50 PM	23.995	11/15/24 2:00 AM	23.848	11/15/24 1:10 PM	23.444
11/14/24 3:00 PM	23.995	11/15/24 2:10 AM	23.828	11/15/24 1:20 PM	23.434
11/14/24 3:10 PM	23.985	11/15/24 2:20 AM	23.828	11/15/24 1:30 PM	23.424
11/14/24 3:20 PM	23.985	11/15/24 2:30 AM	23.818	11/15/24 1:40 PM	23.414
11/14/24 3:30 PM	23.976	11/15/24 2:40 AM	23.808	11/15/24 1:50 PM	23.414
11/14/24 3:40 PM	23.966	11/15/24 2:50 AM	23.798	11/15/24 2:00 PM	23.395
11/14/24 3:50 PM	23.966	11/15/24 3:00 AM	23.788	11/15/24 2:10 PM	23.385
11/14/24 4:00 PM	23.956	11/15/24 3:10 AM	23.788	11/15/24 2:20 PM	23.375
11/14/24 4:10 PM	23.956	11/15/24 3:20 AM	23.779	11/15/24 2:30 PM	23.365
11/14/24 4:20 PM	23.956	11/15/24 3:30 AM	23.769	11/15/24 2:40 PM	23.355
11/14/24 4:30 PM	23.956	11/15/24 3:40 AM	23.769	11/15/24 2:50 PM	23.346
11/14/24 4:40 PM	23.956	11/15/24 3:50 AM	23.749	11/15/24 3:00 PM	23.336
11/14/24 4:50 PM	23.956	11/15/24 4:00 AM	23.749	11/15/24 3:10 PM	23.326

Observation Well Hansen Well

Date and Time	Depth to Water	Date and Time	Depth to Water	Date and Time	Depth to Water
11/15/24 3:20 PM	23.316	11/16/24 2:30 AM	23.119		
11/15/24 3:30 PM	23.306	11/16/24 2:40 AM	23.109		
11/15/24 3:40 PM	23.296	11/16/24 2:50 AM	23.1		
11/15/24 3:50 PM	23.296	11/16/24 3:00 AM	23.09		
11/15/24 4:00 PM	23.287	11/16/24 3:10 AM	23.07		
11/15/24 4:10 PM	23.287	11/16/24 3:20 AM	23.07		
11/15/24 4:20 PM	23.277	11/16/24 3:30 AM	23.06		
11/15/24 4:30 PM	23.267	11/16/24 3:40 AM	23.05		
11/15/24 4:40 PM	23.267	11/16/24 3:50 AM	23.05		
11/15/24 4:50 PM	23.267	11/16/24 4:00 AM	23.04		
11/15/24 5:00 PM	23.257	11/16/24 4:10 AM	23.031		
11/15/24 5:10 PM	23.257	11/16/24 4:20 AM	23.031		
11/15/24 5:20 PM	23.257	11/16/24 4:30 AM	23.011		
11/15/24 5:30 PM	23.257	11/16/24 4:40 AM	23.011		
11/15/24 5:40 PM	23.247	11/16/24 4:50 AM	23.011		
11/15/24 5:50 PM	23.247	11/16/24 5:00 AM	23.001		
11/15/24 6:00 PM	23.247	11/16/24 5:10 AM	22.991		
11/15/24 6:10 PM	23.247	11/16/24 5:20 AM	22.991		
11/15/24 6:20 PM	23.247	11/16/24 5:30 AM	22.981		
11/15/24 6:30 PM	23.237	11/16/24 5:40 AM	22.972		
11/15/24 6:40 PM	23.237	11/16/24 5:50 AM	22.962		
11/15/24 6:50 PM	23.237	11/16/24 6:00 AM	22.962		
11/15/24 7:00 PM	23.237	11/16/24 6:10 AM	22.962		
11/15/24 7:10 PM	23.237	11/16/24 6:20 AM	22.952		
11/15/24 7:20 PM	23.247	11/16/24 6:30 AM	22.952		
11/15/24 7:30 PM	23.247	11/16/24 6:40 AM	22.952		
11/15/24 7:40 PM	23.237	11/16/24 6:50 AM	22.942		
11/15/24 7:50 PM	23.247	11/16/24 7:00 AM	22.942		
11/15/24 8:00 PM	23.247	11/16/24 7:10 AM	22.932		
11/15/24 8:10 PM	23.247	11/16/24 7:20 AM	22.932		
11/15/24 8:20 PM	23.257	11/16/24 7:30 AM	22.932		
11/15/24 8:30 PM	23.257	11/16/24 7:40 AM	22.922		
11/15/24 8:40 PM	23.257	11/16/24 7:50 AM	22.922		
11/15/24 8:50 PM	23.257	11/16/24 8:00 AM	22.922		
11/15/24 9:00 PM	23.257	11/16/24 8:10 AM	22.922		
11/15/24 9:10 PM	23.257	11/16/24 8:20 AM	22.913		
11/15/24 9:20 PM	23.257	11/16/24 8:30 AM	22.913		
11/15/24 9:30 PM	23.267	11/16/24 8:40 AM	22.913		
11/15/24 9:40 PM	23.267	11/16/24 8:50 AM	22.913		
11/15/24 9:50 PM	23.267	11/16/24 9:00 AM	22.913		
11/15/24 10:00 PM	23.267	11/16/24 9:10 AM	22.903		
11/15/24 10:10 PM	23.257	11/16/24 9:20 AM	22.903		
11/15/24 10:20 PM	23.267	11/16/24 9:30 AM	22.903		
11/15/24 10:30 PM	23.257	11/16/24 9:40 AM	22.903		
11/15/24 10:40 PM	23.257	11/16/24 9:50 AM	22.893		
11/15/24 10:50 PM	23.257	11/16/24 10:00 AM	22.893		
11/15/24 11:00 PM	23.247	11/16/24 10:10 AM	22.893		
11/15/24 11:10 PM	23.247	11/16/24 10:20 AM	22.883		
11/15/24 11:20 PM	23.237	11/16/24 10:30 AM	22.883		
11/15/24 11:30 PM	23.237	11/16/24 10:40 AM	22.873		
11/15/24 11:40 PM	23.237	11/16/24 10:50 AM	22.735		
11/15/24 11:50 PM	23.227	11/16/24 11:00 AM	22.735		
11/16/24 12:00 AM	23.227	11/16/24 11:10 AM	22.745		
11/16/24 12:10 AM	23.218	11/16/24 11:20 AM	22.735		
11/16/24 12:20 AM	23.218	11/16/24 11:30 AM	22.735		
11/16/24 12:30 AM	23.208	11/16/24 11:40 AM	22.726		
11/16/24 12:40 AM	23.208	11/16/24 11:50 AM	22.726		
11/16/24 12:50 AM	23.198	11/16/24 12:00 PM	22.726		
11/16/24 1:00 AM	23.188	11/16/24 12:10 PM	22.716		
11/16/24 1:10 AM	23.188	11/16/24 12:20 PM	22.716		
11/16/24 1:20 AM	23.178	11/16/24 12:30 PM	22.706		
11/16/24 1:30 AM	23.168	11/16/24 12:40 PM	22.696		
11/16/24 1:40 AM	23.159	11/16/24 12:50 PM	22.696		
11/16/24 1:50 AM	23.139	11/16/24 1:00 PM	22.686		
11/16/24 2:00 AM	23.139	11/16/24 1:10 PM	22.676		
11/16/24 2:10 AM	23.129	11/16/24 1:20 PM	22.676		
11/16/24 2:20 AM	23.129				



Observation Well HR-4

Date and Time	Depth to Water	Date and Time	Depth to Water	Date and Time	Depth to Water
11/11/24 9:00 AM	9.4	11/11/24 6:50 PM	8.5218	11/12/24 4:40 AM	8.1694
11/11/24 9:10 AM	9.2562	11/11/24 7:00 PM	8.5146	11/12/24 4:50 AM	8.1639
11/11/24 9:20 AM	9.1788	11/11/24 7:10 PM	8.5061	11/12/24 5:00 AM	8.1642
11/11/24 9:30 AM	9.1362	11/11/24 7:20 PM	8.4993	11/12/24 5:10 AM	8.1332
11/11/24 9:40 AM	9.1084	11/11/24 7:30 PM	8.4971	11/12/24 5:20 AM	8.127
11/11/24 9:50 AM	9.0906	11/11/24 7:40 PM	8.4899	11/12/24 5:30 AM	8.121
11/11/24 10:00 AM	9.0696	11/11/24 7:50 PM	8.4769	11/12/24 5:40 AM	8.1212
11/11/24 10:10 AM	9.0374	11/11/24 8:00 PM	8.4534	11/12/24 5:50 AM	8.1147
11/11/24 10:20 AM	9.0074	11/11/24 8:10 PM	8.4398	11/12/24 6:00 AM	8.1096
11/11/24 10:30 AM	8.9948	11/11/24 8:20 PM	8.4375	11/12/24 6:10 AM	8.1021
11/11/24 10:40 AM	8.9786	11/11/24 8:30 PM	8.4285	11/12/24 6:20 AM	8.0948
11/11/24 10:50 AM	8.9665	11/11/24 8:40 PM	8.4158	11/12/24 6:30 AM	8.0831
11/11/24 11:00 AM	8.9491	11/11/24 8:50 PM	8.4071	11/12/24 6:40 AM	8.0817
11/11/24 11:10 AM	8.9446	11/11/24 9:00 PM	8.4009	11/12/24 6:50 AM	8.082
11/11/24 11:20 AM	8.9316	11/11/24 9:10 PM	8.3939	11/12/24 7:00 AM	8.0761
11/11/24 11:30 AM	8.9219	11/11/24 9:20 PM	8.3857	11/12/24 7:10 AM	8.0651
11/11/24 11:40 AM	8.9077	11/11/24 9:30 PM	8.3819	11/12/24 7:20 AM	8.0601
11/11/24 11:50 AM	8.8981	11/11/24 9:40 PM	8.3742	11/12/24 7:30 AM	8.0572
11/11/24 12:00 PM	8.8788	11/11/24 9:50 PM	8.3659	11/12/24 7:40 AM	8.0515
11/11/24 12:10 PM	8.8779	11/11/24 10:00 PM	8.3562	11/12/24 7:50 AM	8.0406
11/11/24 12:20 PM	8.8654	11/11/24 10:10 PM	8.3493	11/12/24 8:00 AM	8.0319
11/11/24 12:30 PM	8.8523	11/11/24 10:20 PM	8.3445	11/12/24 8:10 AM	8.0287
11/11/24 12:40 PM	8.8445	11/11/24 10:30 PM	8.3359	11/12/24 8:20 AM	8.0237
11/11/24 12:50 PM	8.8077	11/11/24 10:40 PM	8.3287	11/12/24 8:30 AM	8.0208
11/11/24 1:00 PM	8.7921	11/11/24 10:50 PM	8.3244	11/12/24 8:40 AM	8.0129
11/11/24 1:10 PM	8.7904	11/11/24 11:00 PM	8.3145	11/12/24 8:50 AM	8.0173
11/11/24 1:20 PM	8.774	11/11/24 11:10 PM	8.3133	11/12/24 9:00 AM	7.9993
11/11/24 1:30 PM	8.761	11/11/24 11:20 PM	8.3089	11/12/24 9:10 AM	7.9992
11/11/24 1:40 PM	8.7497	11/11/24 11:30 PM	8.3049	11/12/24 9:20 AM	7.9891
11/11/24 1:50 PM	8.7455	11/11/24 11:40 PM	8.2992	11/12/24 9:30 AM	7.9875
11/11/24 2:00 PM	8.729	11/11/24 11:50 PM	8.2949	11/12/24 9:40 AM	7.984
11/11/24 2:10 PM	8.7259	11/12/24 12:00 AM	8.2831	11/12/24 9:50 AM	7.9793
11/11/24 2:20 PM	8.7178	11/12/24 12:10 AM	8.2798	11/12/24 10:00 AM	7.9774
11/11/24 2:30 PM	8.7087	11/12/24 12:20 AM	8.2724	11/12/24 10:10 AM	7.9648
11/11/24 2:40 PM	8.7005	11/12/24 12:30 AM	8.2712	11/12/24 10:20 AM	7.9587
11/11/24 2:50 PM	8.6956	11/12/24 12:40 AM	8.2735	11/12/24 10:30 AM	7.9608
11/11/24 3:00 PM	8.6797	11/12/24 12:50 AM	8.2567	11/12/24 10:40 AM	7.9566
11/11/24 3:10 PM	8.6718	11/12/24 1:00 AM	8.261	11/12/24 10:50 AM	7.953
11/11/24 3:20 PM	8.6604	11/12/24 1:10 AM	8.2481	11/12/24 11:00 AM	7.9518
11/11/24 3:30 PM	8.6478	11/12/24 1:20 AM	8.2571	11/12/24 11:10 AM	7.9501
11/11/24 3:40 PM	8.643	11/12/24 1:30 AM	8.2514	11/12/24 11:20 AM	7.9473
11/11/24 3:50 PM	8.6321	11/12/24 1:40 AM	8.2466	11/12/24 11:30 AM	7.947
11/11/24 4:00 PM	8.6167	11/12/24 1:50 AM	8.247	11/12/24 11:40 AM	7.9482
11/11/24 4:10 PM	8.6146	11/12/24 2:00 AM	8.2404	11/12/24 11:50 AM	7.9489
11/11/24 4:20 PM	8.6159	11/12/24 2:10 AM	8.2347	11/12/24 12:00 PM	7.9525
11/11/24 4:30 PM	8.6082	11/12/24 2:20 AM	8.234	11/12/24 12:10 PM	7.9439
11/11/24 4:40 PM	8.604	11/12/24 2:30 AM	8.2244	11/12/24 12:20 PM	7.9473
11/11/24 4:50 PM	8.5911	11/12/24 2:40 AM	8.2256	11/12/24 12:30 PM	7.9488
11/11/24 5:00 PM	8.5922	11/12/24 2:50 AM	8.2166	11/12/24 12:40 PM	7.9469
11/11/24 5:10 PM	8.5849	11/12/24 3:00 AM	8.2174	11/12/24 12:50 PM	7.9382
11/11/24 5:20 PM	8.579	11/12/24 3:10 AM	8.214	11/12/24 1:00 PM	7.945
11/11/24 5:30 PM	8.5703	11/12/24 3:20 AM	8.2112	11/12/24 1:10 PM	7.9476
11/11/24 5:40 PM	8.5666	11/12/24 3:30 AM	8.1999	11/12/24 1:20 PM	7.9489
11/11/24 5:50 PM	8.563	11/12/24 3:40 AM	8.1991	11/12/24 1:30 PM	7.9462
11/11/24 6:00 PM	8.5588	11/12/24 3:50 AM	8.1964	11/12/24 1:40 PM	7.939
11/11/24 6:10 PM	8.5503	11/12/24 4:00 AM	8.1912	11/12/24 1:50 PM	7.9389
11/11/24 6:20 PM	8.5402	11/12/24 4:10 AM	8.1868	11/12/24 2:00 PM	7.9398
11/11/24 6:30 PM	8.5345	11/12/24 4:20 AM	8.1828	11/12/24 2:10 PM	7.9384
11/11/24 6:40 PM	8.5323	11/12/24 4:30 AM	8.1715	11/12/24 2:20 PM	7.9397

Observation Well HR-4

Date and Time	Depth to Water	Date and Time	Depth to Water	Date and Time	Depth to Water
11/12/24 2:30 PM	7.935	11/13/24 12:20 AM	7.7947	11/13/24 10:10 AM	7.7317
11/12/24 2:40 PM	7.9374	11/13/24 12:30 AM	7.7966	11/13/24 10:20 AM	7.7352
11/12/24 2:50 PM	7.9352	11/13/24 12:40 AM	7.79	11/13/24 10:30 AM	7.7365
11/12/24 3:00 PM	7.9362	11/13/24 12:50 AM	7.7893	11/13/24 10:40 AM	7.7305
11/12/24 3:10 PM	7.9321	11/13/24 1:00 AM	7.7806	11/13/24 10:50 AM	7.7374
11/12/24 3:20 PM	7.9345	11/13/24 1:10 AM	7.7827	11/13/24 11:00 AM	7.7307
11/12/24 3:30 PM	7.9263	11/13/24 1:20 AM	7.7768	11/13/24 11:10 AM	7.7359
11/12/24 3:40 PM	7.9246	11/13/24 1:30 AM	7.7728	11/13/24 11:20 AM	7.727
11/12/24 3:50 PM	7.9194	11/13/24 1:40 AM	7.7697	11/13/24 11:30 AM	7.7266
11/12/24 4:00 PM	7.919	11/13/24 1:50 AM	7.7681	11/13/24 11:40 AM	7.7249
11/12/24 4:10 PM	7.9209	11/13/24 2:00 AM	7.7634	11/13/24 11:50 AM	7.7204
11/12/24 4:20 PM	7.916	11/13/24 2:10 AM	7.7642	11/13/24 12:00 PM	7.7166
11/12/24 4:30 PM	7.9094	11/13/24 2:20 AM	7.7567	11/13/24 12:10 PM	7.7117
11/12/24 4:40 PM	7.9095	11/13/24 2:30 AM	7.7569	11/13/24 12:20 PM	7.703
11/12/24 4:50 PM	7.9108	11/13/24 2:40 AM	7.7608	11/13/24 12:30 PM	7.7036
11/12/24 5:00 PM	7.9019	11/13/24 2:50 AM	7.7552	11/13/24 12:40 PM	7.7006
11/12/24 5:10 PM	7.9071	11/13/24 3:00 AM	7.7569	11/13/24 12:50 PM	7.6992
11/12/24 5:20 PM	7.8984	11/13/24 3:10 AM	7.7622	11/13/24 1:00 PM	7.695
11/12/24 5:30 PM	7.8991	11/13/24 3:20 AM	7.7607	11/13/24 1:10 PM	7.6937
11/12/24 5:40 PM	7.9021	11/13/24 3:30 AM	7.7506	11/13/24 1:20 PM	7.6915
11/12/24 5:50 PM	7.8976	11/13/24 3:40 AM	7.7579	11/13/24 1:30 PM	7.6855
11/12/24 6:00 PM	7.8914	11/13/24 3:50 AM	7.758	11/13/24 1:40 PM	7.681
11/12/24 6:10 PM	7.891	11/13/24 4:00 AM	7.763	11/13/24 1:50 PM	7.6735
11/12/24 6:20 PM	7.8957	11/13/24 4:10 AM	7.7594	11/13/24 2:00 PM	7.6582
11/12/24 6:30 PM	7.8894	11/13/24 4:20 AM	7.7568	11/13/24 2:10 PM	7.6512
11/12/24 6:40 PM	7.8884	11/13/24 4:30 AM	7.7582	11/13/24 2:20 PM	7.6545
11/12/24 6:50 PM	7.8873	11/13/24 4:40 AM	7.7505	11/13/24 2:30 PM	7.647
11/12/24 7:00 PM	7.8816	11/13/24 4:50 AM	7.7549	11/13/24 2:40 PM	7.6402
11/12/24 7:10 PM	7.8651	11/13/24 5:00 AM	7.744	11/13/24 2:50 PM	7.6326
11/12/24 7:20 PM	7.8658	11/13/24 5:10 AM	7.7488	11/13/24 3:00 PM	7.6267
11/12/24 7:30 PM	7.8729	11/13/24 5:20 AM	7.7445	11/13/24 3:10 PM	7.6258
11/12/24 7:40 PM	7.8494	11/13/24 5:30 AM	7.7354	11/13/24 3:20 PM	7.6231
11/12/24 7:50 PM	7.8481	11/13/24 5:40 AM	7.7364	11/13/24 3:30 PM	7.6182
11/12/24 8:00 PM	7.8465	11/13/24 5:50 AM	7.7409	11/13/24 3:40 PM	7.6149
11/12/24 8:10 PM	7.8391	11/13/24 6:00 AM	7.7357	11/13/24 3:50 PM	7.608
11/12/24 8:20 PM	7.8323	11/13/24 6:10 AM	7.7424	11/13/24 4:00 PM	7.6102
11/12/24 8:30 PM	7.8303	11/13/24 6:20 AM	7.7422	11/13/24 4:10 PM	7.5967
11/12/24 8:40 PM	7.8347	11/13/24 6:30 AM	7.746	11/13/24 4:20 PM	7.5951
11/12/24 8:50 PM	7.8274	11/13/24 6:40 AM	7.7384	11/13/24 4:30 PM	7.5904
11/12/24 9:00 PM	7.8237	11/13/24 6:50 AM	7.748	11/13/24 4:40 PM	7.5828
11/12/24 9:10 PM	7.8184	11/13/24 7:00 AM	7.7409	11/13/24 4:50 PM	7.5833
11/12/24 9:20 PM	7.8144	11/13/24 7:10 AM	7.7414	11/13/24 5:00 PM	7.5778
11/12/24 9:30 PM	7.8166	11/13/24 7:20 AM	7.7392	11/13/24 5:10 PM	7.5712
11/12/24 9:40 PM	7.8116	11/13/24 7:30 AM	7.7425	11/13/24 5:20 PM	7.5675
11/12/24 9:50 PM	7.8181	11/13/24 7:40 AM	7.7427	11/13/24 5:30 PM	7.5613
11/12/24 10:00 PM	7.8095	11/13/24 7:50 AM	7.7464	11/13/24 5:40 PM	7.5588
11/12/24 10:10 PM	7.8098	11/13/24 8:00 AM	7.7378	11/13/24 5:50 PM	7.5562
11/12/24 10:20 PM	7.8062	11/13/24 8:10 AM	7.7335	11/13/24 6:00 PM	7.5502
11/12/24 10:30 PM	7.8045	11/13/24 8:20 AM	7.7374	11/13/24 6:10 PM	7.5468
11/12/24 10:40 PM	7.8104	11/13/24 8:30 AM	7.7323	11/13/24 6:20 PM	7.5386
11/12/24 10:50 PM	7.7986	11/13/24 8:40 AM	7.7331	11/13/24 6:30 PM	7.5409
11/12/24 11:00 PM	7.7967	11/13/24 8:50 AM	7.7332	11/13/24 6:40 PM	7.528
11/12/24 11:10 PM	7.7963	11/13/24 9:00 AM	7.7243	11/13/24 6:50 PM	7.5281
11/12/24 11:20 PM	7.7937	11/13/24 9:10 AM	7.7258	11/13/24 7:00 PM	7.5258
11/12/24 11:30 PM	7.7962	11/13/24 9:20 AM	7.7289	11/13/24 7:10 PM	7.5197
11/12/24 11:40 PM	7.7932	11/13/24 9:30 AM	7.7408	11/13/24 7:20 PM	7.5211
11/12/24 11:50 PM	7.7936	11/13/24 9:40 AM	7.7442	11/13/24 7:30 PM	7.5206
11/13/24 12:00 AM	7.7883	11/13/24 9:50 AM	7.7411	11/13/24 7:40 PM	7.5095
11/13/24 12:10 AM	7.7936	11/13/24 10:00 AM	7.737	11/13/24 7:50 PM	7.508

Observation Well HR-4

Date and Time	Depth to Water	Date and Time	Depth to Water	Date and Time	Depth to Water
11/13/24 8:00 PM	7.5022	11/14/24 5:50 AM	7.3478	11/14/24 3:40 PM	7.2377
11/13/24 8:10 PM	7.5011	11/14/24 6:00 AM	7.3418	11/14/24 3:50 PM	7.2373
11/13/24 8:20 PM	7.4909	11/14/24 6:10 AM	7.3428	11/14/24 4:00 PM	7.2378
11/13/24 8:30 PM	7.4887	11/14/24 6:20 AM	7.3352	11/14/24 4:10 PM	7.2367
11/13/24 8:40 PM	7.4891	11/14/24 6:30 AM	7.3283	11/14/24 4:20 PM	7.2389
11/13/24 8:50 PM	7.4912	11/14/24 6:40 AM	7.3322	11/14/24 4:30 PM	7.2347
11/13/24 9:00 PM	7.4819	11/14/24 6:50 AM	7.3248	11/14/24 4:40 PM	7.231
11/13/24 9:10 PM	7.4875	11/14/24 7:00 AM	7.3189	11/14/24 4:50 PM	7.2321
11/13/24 9:20 PM	7.4783	11/14/24 7:10 AM	7.3256	11/14/24 5:00 PM	7.2321
11/13/24 9:30 PM	7.4758	11/14/24 7:20 AM	7.3165	11/14/24 5:10 PM	7.2351
11/13/24 9:40 PM	7.4731	11/14/24 7:30 AM	7.3178	11/14/24 5:20 PM	7.2347
11/13/24 9:50 PM	7.4747	11/14/24 7:40 AM	7.3123	11/14/24 5:30 PM	7.2227
11/13/24 10:00 PM	7.471	11/14/24 7:50 AM	7.3054	11/14/24 5:40 PM	7.2239
11/13/24 10:10 PM	7.4688	11/14/24 8:00 AM	7.2997	11/14/24 5:50 PM	7.2217
11/13/24 10:20 PM	7.4633	11/14/24 8:10 AM	7.305	11/14/24 6:00 PM	7.2235
11/13/24 10:30 PM	7.4657	11/14/24 8:20 AM	7.295	11/14/24 6:10 PM	7.2274
11/13/24 10:40 PM	7.4641	11/14/24 8:30 AM	7.2909	11/14/24 6:20 PM	7.2214
11/13/24 10:50 PM	7.4591	11/14/24 8:40 AM	7.2867	11/14/24 6:30 PM	7.2185
11/13/24 11:00 PM	7.4637	11/14/24 8:50 AM	7.2916	11/14/24 6:40 PM	7.2192
11/13/24 11:10 PM	7.4563	11/14/24 9:00 AM	7.2809	11/14/24 6:50 PM	7.2188
11/13/24 11:20 PM	7.4537	11/14/24 9:10 AM	7.2784	11/14/24 7:00 PM	7.2122
11/13/24 11:30 PM	7.4482	11/14/24 9:20 AM	7.2746	11/14/24 7:10 PM	7.2163
11/13/24 11:40 PM	7.4505	11/14/24 9:30 AM	7.2743	11/14/24 7:20 PM	7.2129
11/13/24 11:50 PM	7.4521	11/14/24 9:40 AM	7.2678	11/14/24 7:30 PM	7.2149
11/14/24 12:00 AM	7.4442	11/14/24 9:50 AM	7.2673	11/14/24 7:40 PM	7.2079
11/14/24 12:10 AM	7.4466	11/14/24 10:00 AM	7.2623	11/14/24 7:50 PM	7.2062
11/14/24 12:20 AM	7.4407	11/14/24 10:10 AM	7.264	11/14/24 8:00 PM	7.2083
11/14/24 12:30 AM	7.4361	11/14/24 10:20 AM	7.2566	11/14/24 8:10 PM	7.204
11/14/24 12:40 AM	7.4372	11/14/24 10:30 AM	7.2552	11/14/24 8:20 PM	7.1994
11/14/24 12:50 AM	7.4355	11/14/24 10:40 AM	7.257	11/14/24 8:30 PM	7.1967
11/14/24 1:00 AM	7.4242	11/14/24 10:50 AM	7.2532	11/14/24 8:40 PM	7.2007
11/14/24 1:10 AM	7.4262	11/14/24 11:00 AM	7.2516	11/14/24 8:50 PM	7.2008
11/14/24 1:20 AM	7.4228	11/14/24 11:10 AM	7.2515	11/14/24 9:00 PM	7.2037
11/14/24 1:30 AM	7.4222	11/14/24 11:20 AM	7.2531	11/14/24 9:10 PM	7.1966
11/14/24 1:40 AM	7.4278	11/14/24 11:30 AM	7.2542	11/14/24 9:20 PM	7.1904
11/14/24 1:50 AM	7.4234	11/14/24 11:40 AM	7.2547	11/14/24 9:30 PM	7.1724
11/14/24 2:00 AM	7.4219	11/14/24 11:50 AM	7.2575	11/14/24 9:40 PM	7.1709
11/14/24 2:10 AM	7.421	11/14/24 12:00 PM	7.2492	11/14/24 9:50 PM	7.1656
11/14/24 2:20 AM	7.4164	11/14/24 12:10 PM	7.2491	11/14/24 10:00 PM	7.1671
11/14/24 2:30 AM	7.4145	11/14/24 12:20 PM	7.2535	11/14/24 10:10 PM	7.1569
11/14/24 2:40 AM	7.4135	11/14/24 12:30 PM	7.2532	11/14/24 10:20 PM	7.1588
11/14/24 2:50 AM	7.4129	11/14/24 12:40 PM	7.2482	11/14/24 10:30 PM	7.1567
11/14/24 3:00 AM	7.4066	11/14/24 12:50 PM	7.2528	11/14/24 10:40 PM	7.1627
11/14/24 3:10 AM	7.4116	11/14/24 1:00 PM	7.2484	11/14/24 10:50 PM	7.159
11/14/24 3:20 AM	7.3923	11/14/24 1:10 PM	7.2477	11/14/24 11:00 PM	7.1603
11/14/24 3:30 AM	7.3846	11/14/24 1:20 PM	7.2421	11/14/24 11:10 PM	7.1494
11/14/24 3:40 AM	7.3793	11/14/24 1:30 PM	7.2472	11/14/24 11:20 PM	7.1528
11/14/24 3:50 AM	7.3807	11/14/24 1:40 PM	7.2456	11/14/24 11:30 PM	7.1557
11/14/24 4:00 AM	7.3759	11/14/24 1:50 PM	7.2441	11/14/24 11:40 PM	7.1518
11/14/24 4:10 AM	7.379	11/14/24 2:00 PM	7.2431	11/14/24 11:50 PM	7.1448
11/14/24 4:20 AM	7.3699	11/14/24 2:10 PM	7.2404	11/15/24 12:00 AM	7.1463
11/14/24 4:30 AM	7.3718	11/14/24 2:20 PM	7.2489	11/15/24 12:10 AM	7.1445
11/14/24 4:40 AM	7.3641	11/14/24 2:30 PM	7.2502	11/15/24 12:20 AM	7.1406
11/14/24 4:50 AM	7.3587	11/14/24 2:40 PM	7.2483	11/15/24 12:30 AM	7.1352
11/14/24 5:00 AM	7.36	11/14/24 2:50 PM	7.2405	11/15/24 12:40 AM	7.1318
11/14/24 5:10 AM	7.3577	11/14/24 3:00 PM	7.2403	11/15/24 12:50 AM	7.1319
11/14/24 5:20 AM	7.3591	11/14/24 3:10 PM	7.2456	11/15/24 1:00 AM	7.1321
11/14/24 5:30 AM	7.3513	11/14/24 3:20 PM	7.2395	11/15/24 1:10 AM	7.1282
11/14/24 5:40 AM	7.3534	11/14/24 3:30 PM	7.2415	11/15/24 1:20 AM	7.1247

Observation Well HR-4

Date and Time	Depth to Water	Date and Time	Depth to Water	Date and Time	Depth to Water
11/15/24 1:30 AM	7.1269	11/15/24 11:20 AM	6.9931	11/15/24 9:10 PM	6.8217
11/15/24 1:40 AM	7.121	11/15/24 11:30 AM	6.9851	11/15/24 9:20 PM	6.8178
11/15/24 1:50 AM	7.118	11/15/24 11:40 AM	6.9919	11/15/24 9:30 PM	6.8163
11/15/24 2:00 AM	7.1193	11/15/24 11:50 AM	6.9995	11/15/24 9:40 PM	6.8152
11/15/24 2:10 AM	7.109	11/15/24 12:00 PM	6.9871	11/15/24 9:50 PM	6.8106
11/15/24 2:20 AM	7.1122	11/15/24 12:10 PM	6.9849	11/15/24 10:00 PM	6.8079
11/15/24 2:30 AM	7.1109	11/15/24 12:20 PM	6.9862	11/15/24 10:10 PM	6.8069
11/15/24 2:40 AM	7.1113	11/15/24 12:30 PM	6.9768	11/15/24 10:20 PM	6.8102
11/15/24 2:50 AM	7.11	11/15/24 12:40 PM	6.981	11/15/24 10:30 PM	6.7999
11/15/24 3:00 AM	7.1017	11/15/24 12:50 PM	6.9793	11/15/24 10:40 PM	6.802
11/15/24 3:10 AM	7.1018	11/15/24 1:00 PM	6.9714	11/15/24 10:50 PM	6.7974
11/15/24 3:20 AM	7.1037	11/15/24 1:10 PM	6.9683	11/15/24 11:00 PM	6.7954
11/15/24 3:30 AM	7.0957	11/15/24 1:20 PM	6.9694	11/15/24 11:10 PM	6.7897
11/15/24 3:40 AM	7.0987	11/15/24 1:30 PM	6.9694	11/15/24 11:20 PM	6.7893
11/15/24 3:50 AM	7.0892	11/15/24 1:40 PM	6.9709	11/15/24 11:30 PM	6.7849
11/15/24 4:00 AM	7.088	11/15/24 1:50 PM	6.965	11/15/24 11:40 PM	6.7808
11/15/24 4:10 AM	7.0855	11/15/24 2:00 PM	6.9657	11/15/24 11:50 PM	6.7776
11/15/24 4:20 AM	7.0843	11/15/24 2:10 PM	6.9582	11/16/24 12:00 AM	6.7817
11/15/24 4:30 AM	7.0785	11/15/24 2:20 PM	6.9561	11/16/24 12:10 AM	6.7838
11/15/24 4:40 AM	7.0721	11/15/24 2:30 PM	6.9574	11/16/24 12:20 AM	6.7821
11/15/24 4:50 AM	7.0788	11/15/24 2:40 PM	6.9634	11/16/24 12:30 AM	6.7788
11/15/24 5:00 AM	7.0708	11/15/24 2:50 PM	6.9539	11/16/24 12:40 AM	6.7798
11/15/24 5:10 AM	7.0675	11/15/24 3:00 PM	6.9502	11/16/24 12:50 AM	6.7791
11/15/24 5:20 AM	7.0677	11/15/24 3:10 PM	6.9307	11/16/24 1:00 AM	6.7793
11/15/24 5:30 AM	7.0646	11/15/24 3:20 PM	6.9303	11/16/24 1:10 AM	6.775
11/15/24 5:40 AM	7.0629	11/15/24 3:30 PM	6.921	11/16/24 1:20 AM	6.7771
11/15/24 5:50 AM	7.0623	11/15/24 3:40 PM	6.9274	11/16/24 1:30 AM	6.775
11/15/24 6:00 AM	7.0614	11/15/24 3:50 PM	6.9192	11/16/24 1:40 AM	6.7688
11/15/24 6:10 AM	7.0596	11/15/24 4:00 PM	6.9178	11/16/24 1:50 AM	6.7656
11/15/24 6:20 AM	7.052	11/15/24 4:10 PM	6.9115	11/16/24 2:00 AM	6.7688
11/15/24 6:30 AM	7.0487	11/15/24 4:20 PM	6.9147	11/16/24 2:10 AM	6.7682
11/15/24 6:40 AM	7.0523	11/15/24 4:30 PM	6.9068	11/16/24 2:20 AM	6.7661
11/15/24 6:50 AM	7.0439	11/15/24 4:40 PM	6.9027	11/16/24 2:30 AM	6.7663
11/15/24 7:00 AM	7.0462	11/15/24 4:50 PM	6.8898	11/16/24 2:40 AM	6.7662
11/15/24 7:10 AM	7.0407	11/15/24 5:00 PM	6.8962	11/16/24 2:50 AM	6.7636
11/15/24 7:20 AM	7.0282	11/15/24 5:10 PM	6.8933	11/16/24 3:00 AM	6.7665
11/15/24 7:30 AM	7.0329	11/15/24 5:20 PM	6.8892	11/16/24 3:10 AM	6.762
11/15/24 7:40 AM	7.0253	11/15/24 5:30 PM	6.8888	11/16/24 3:20 AM	6.7637
11/15/24 7:50 AM	7.0273	11/15/24 5:40 PM	6.8813	11/16/24 3:30 AM	6.7643
11/15/24 8:00 AM	7.0235	11/15/24 5:50 PM	6.8781	11/16/24 3:40 AM	6.7628
11/15/24 8:10 AM	7.0288	11/15/24 6:00 PM	6.875	11/16/24 3:50 AM	6.7618
11/15/24 8:20 AM	7.0238	11/15/24 6:10 PM	6.8724	11/16/24 4:00 AM	6.7585
11/15/24 8:30 AM	7.0239	11/15/24 6:20 PM	6.8726	11/16/24 4:10 AM	6.7571
11/15/24 8:40 AM	7.0156	11/15/24 6:30 PM	6.8712	11/16/24 4:20 AM	6.7579
11/15/24 8:50 AM	7.0185	11/15/24 6:40 PM	6.8639	11/16/24 4:30 AM	6.7591
11/15/24 9:00 AM	7.0125	11/15/24 6:50 PM	6.8643	11/16/24 4:40 AM	6.7497
11/15/24 9:10 AM	7.0103	11/15/24 7:00 PM	6.8554	11/16/24 4:50 AM	6.7546
11/15/24 9:20 AM	7.0091	11/15/24 7:10 PM	6.8544	11/16/24 5:00 AM	6.7513
11/15/24 9:30 AM	7.0145	11/15/24 7:20 PM	6.8517	11/16/24 5:10 AM	6.7538
11/15/24 9:40 AM	7.0085	11/15/24 7:30 PM	6.8465	11/16/24 5:20 AM	6.7495
11/15/24 9:50 AM	7.0101	11/15/24 7:40 PM	6.8465	11/16/24 5:30 AM	6.7423
11/15/24 10:00 AM	7.0053	11/15/24 7:50 PM	6.8454	11/16/24 5:40 AM	6.743
11/15/24 10:10 AM	6.997	11/15/24 8:00 PM	6.8401	11/16/24 5:50 AM	6.7447
11/15/24 10:20 AM	7.0021	11/15/24 8:10 PM	6.8416	11/16/24 6:00 AM	6.7468
11/15/24 10:30 AM	6.9961	11/15/24 8:20 PM	6.8359	11/16/24 6:10 AM	6.7397
11/15/24 10:40 AM	7.0004	11/15/24 8:30 PM	6.8314	11/16/24 6:20 AM	6.7397
11/15/24 10:50 AM	6.9977	11/15/24 8:40 PM	6.8297	11/16/24 6:30 AM	6.7346
11/15/24 11:00 AM	6.9935	11/15/24 8:50 PM	6.8231	11/16/24 6:40 AM	6.7377
11/15/24 11:10 AM	6.9907	11/15/24 9:00 PM	6.8232	11/16/24 6:50 AM	6.7327

Observation Well HR-4

Date and Time	Depth to Water	Date and Time	Depth to Water	Date and Time	Depth to Water
11/16/24 7:00 AM	6.7366				
11/16/24 7:10 AM	6.7283				
11/16/24 7:20 AM	6.7044				
11/16/24 7:30 AM	6.7042				
11/16/24 7:40 AM	6.6905				
11/16/24 7:50 AM	6.692				
11/16/24 8:00 AM	6.6911				
11/16/24 8:10 AM	6.6947				
11/16/24 8:20 AM	6.6886				
11/16/24 8:30 AM	6.6858				
11/16/24 8:40 AM	6.6815				
11/16/24 8:50 AM	6.6697				
11/16/24 9:00 AM	6.6717				
11/16/24 9:10 AM	6.6693				
11/16/24 9:20 AM	6.6704				
11/16/24 9:30 AM	6.6586				
11/16/24 9:40 AM	6.6655				
11/16/24 9:50 AM	6.6592				
11/16/24 10:00 AM	6.6562				
11/16/24 10:31 AM	6.6398				
11/16/24 10:41 AM	6.644				
11/16/24 10:51 AM	6.6469				
11/16/24 11:01 AM	6.6397				
11/16/24 11:11 AM	6.6465				
11/16/24 11:21 AM	6.6456				
11/16/24 11:31 AM	6.636				
11/16/24 11:41 AM	6.6315				
11/16/24 11:51 AM	6.6244				
11/16/24 12:01 PM	6.6355				
11/16/24 12:11 PM	6.6309				
11/16/24 12:21 PM	6.6227				
11/16/24 12:31 PM	6.622				
11/16/24 12:41 PM	6.6256				

Date and Time	Depth to Water	Date and Time	Depth to Water	Date and Time	Depth to Water
11/11/24 9:00 AM	8.17	11/11/24 8:10 PM	6.8475	11/12/24 7:20 AM	6.4529
11/11/24 9:10 AM	8.0461	11/11/24 8:20 PM	6.84	11/12/24 7:30 AM	6.4493
11/11/24 9:20 AM	7.9549	11/11/24 8:30 PM	6.8354	11/12/24 7:40 AM	6.4463
11/11/24 9:30 AM	7.8737	11/11/24 8:40 PM	6.829	11/12/24 7:50 AM	6.4447
11/11/24 9:40 AM	7.8101	11/11/24 8:50 PM	6.8229	11/12/24 8:00 AM	6.4397
11/11/24 9:50 AM	7.7438	11/11/24 9:00 PM	6.8071	11/12/24 8:10 AM	6.4379
11/11/24 10:00 AM	7.6814	11/11/24 9:10 PM	6.7993	11/12/24 8:20 AM	6.4348
11/11/24 10:10 AM	7.6184	11/11/24 9:20 PM	6.7937	11/12/24 8:30 AM	6.4319
11/11/24 10:20 AM	7.5548	11/11/24 9:30 PM	6.7894	11/12/24 8:40 AM	6.4291
11/11/24 10:30 AM	7.5163	11/11/24 9:40 PM	6.7818	11/12/24 8:50 AM	6.4263
11/11/24 10:40 AM	7.484	11/11/24 9:50 PM	6.7682	11/12/24 9:00 AM	6.421
11/11/24 10:50 AM	7.456	11/11/24 10:00 PM	6.7639	11/12/24 9:10 AM	6.417
11/11/24 11:00 AM	7.4309	11/11/24 10:10 PM	6.7598	11/12/24 9:20 AM	6.4132
11/11/24 11:10 AM	7.4074	11/11/24 10:20 PM	6.7554	11/12/24 9:30 AM	6.4096
11/11/24 11:20 AM	7.386	11/11/24 10:30 PM	6.7504	11/12/24 9:40 AM	6.4054
11/11/24 11:30 AM	7.3671	11/11/24 10:40 PM	6.7466	11/12/24 9:50 AM	6.402
11/11/24 11:40 AM	7.3483	11/11/24 10:50 PM	6.7424	11/12/24 10:00 AM	6.3978
11/11/24 11:50 AM	7.3316	11/11/24 11:00 PM	6.7361	11/12/24 10:10 AM	6.3924
11/11/24 12:00 PM	7.3154	11/11/24 11:10 PM	6.7301	11/12/24 10:20 AM	6.3901
11/11/24 12:10 PM	7.2994	11/11/24 11:20 PM	6.7243	11/12/24 10:30 AM	6.3862
11/11/24 12:20 PM	7.2861	11/11/24 11:30 PM	6.7167	11/12/24 10:40 AM	6.3829
11/11/24 12:30 PM	7.2717	11/11/24 11:40 PM	6.7104	11/12/24 10:50 AM	6.3789
11/11/24 12:40 PM	7.2576	11/11/24 11:50 PM	6.7035	11/12/24 11:00 AM	6.3767
11/11/24 12:50 PM	7.2435	11/12/24 12:00 AM	6.6983	11/12/24 11:10 AM	6.3602
11/11/24 1:00 PM	7.2321	11/12/24 12:10 AM	6.693	11/12/24 11:20 AM	6.3572
11/11/24 1:10 PM	7.2201	11/12/24 12:20 AM	6.6712	11/12/24 11:30 AM	6.3565
11/11/24 1:20 PM	7.2078	11/12/24 12:30 AM	6.6393	11/12/24 11:40 AM	6.3563
11/11/24 1:30 PM	7.195	11/12/24 12:40 AM	6.6372	11/12/24 11:50 AM	6.3535
11/11/24 1:40 PM	7.1833	11/12/24 12:50 AM	6.6347	11/12/24 12:00 PM	6.3507
11/11/24 1:50 PM	7.1702	11/12/24 1:00 AM	6.6305	11/12/24 12:10 PM	6.3416
11/11/24 2:00 PM	7.1551	11/12/24 1:10 AM	6.6275	11/12/24 12:20 PM	6.3401
11/11/24 2:10 PM	7.1444	11/12/24 1:20 AM	6.6233	11/12/24 12:30 PM	6.3386
11/11/24 2:20 PM	7.1363	11/12/24 1:30 AM	6.6204	11/12/24 12:40 PM	6.3377
11/11/24 2:30 PM	7.1265	11/12/24 1:40 AM	6.6123	11/12/24 12:50 PM	6.3368
11/11/24 2:40 PM	7.1173	11/12/24 1:50 AM	6.6095	11/12/24 1:00 PM	6.3364
11/11/24 2:50 PM	7.111	11/12/24 2:00 AM	6.6043	11/12/24 1:10 PM	6.3365
11/11/24 3:00 PM	7.103	11/12/24 2:10 AM	6.6014	11/12/24 1:20 PM	6.3361
11/11/24 3:10 PM	7.0951	11/12/24 2:20 AM	6.5961	11/12/24 1:30 PM	6.3345
11/11/24 3:20 PM	7.088	11/12/24 2:30 AM	6.5925	11/12/24 1:40 PM	6.3301
11/11/24 3:30 PM	7.0788	11/12/24 2:40 AM	6.5901	11/12/24 1:50 PM	6.3303
11/11/24 3:40 PM	7.0687	11/12/24 2:50 AM	6.586	11/12/24 2:00 PM	6.3289
11/11/24 3:50 PM	7.0606	11/12/24 3:00 AM	6.5838	11/12/24 2:10 PM	6.3281
11/11/24 4:00 PM	7.0524	11/12/24 3:10 AM	6.5805	11/12/24 2:20 PM	6.3265
11/11/24 4:10 PM	7.0427	11/12/24 3:20 AM	6.5781	11/12/24 2:30 PM	6.3234
11/11/24 4:20 PM	7.0328	11/12/24 3:30 AM	6.5749	11/12/24 2:40 PM	6.3251
11/11/24 4:30 PM	7.0256	11/12/24 3:40 AM	6.5711	11/12/24 2:50 PM	6.3235
11/11/24 4:40 PM	7.016	11/12/24 3:50 AM	6.5676	11/12/24 3:00 PM	6.3218
11/11/24 4:50 PM	7.0087	11/12/24 4:00 AM	6.5646	11/12/24 3:10 PM	6.3212
11/11/24 5:00 PM	6.9984	11/12/24 4:10 AM	6.5615	11/12/24 3:20 PM	6.3182
11/11/24 5:10 PM	6.9922	11/12/24 4:20 AM	6.5577	11/12/24 3:30 PM	6.3152
11/11/24 5:20 PM	6.9844	11/12/24 4:30 AM	6.5535	11/12/24 3:40 PM	6.3134
11/11/24 5:30 PM	6.9746	11/12/24 4:40 AM	6.5494	11/12/24 3:50 PM	6.3128
11/11/24 5:40 PM	6.9529	11/12/24 4:50 AM	6.5446	11/12/24 4:00 PM	6.3102
11/11/24 5:50 PM	6.9473	11/12/24 5:00 AM	6.5411	11/12/24 4:10 PM	6.3068
11/11/24 6:00 PM	6.9407	11/12/24 5:10 AM	6.5288	11/12/24 4:20 PM	6.3028
11/11/24 6:10 PM	6.9349	11/12/24 5:20 AM	6.5197	11/12/24 4:30 PM	6.2976
11/11/24 6:20 PM	6.9276	11/12/24 5:30 AM	6.5188	11/12/24 4:40 PM	6.2925
11/11/24 6:30 PM	6.9204	11/12/24 5:40 AM	6.5163	11/12/24 4:50 PM	6.2915
11/11/24 6:40 PM	6.9136	11/12/24 5:50 AM	6.5118	11/12/24 5:00 PM	6.2872
11/11/24 6:50 PM	6.9068	11/12/24 6:00 AM	6.5086	11/12/24 5:10 PM	6.2843
11/11/24 7:00 PM	6.8994	11/12/24 6:10 AM	6.5052	11/12/24 5:20 PM	6.279
11/11/24 7:10 PM	6.8919	11/12/24 6:20 AM	6.5024	11/12/24 5:30 PM	6.2775
11/11/24 7:20 PM	6.8833	11/12/24 6:30 AM	6.4984	11/12/24 5:40 PM	6.2726
11/11/24 7:30 PM	6.8779	11/12/24 6:40 AM	6.4866	11/12/24 5:50 PM	6.2713
11/11/24 7:40 PM	6.8711	11/12/24 6:50 AM	6.4815	11/12/24 6:00 PM	6.2676
11/11/24 7:50 PM	6.8633	11/12/24 7:00 AM	6.4772	11/12/24 6:10 PM	6.2628
11/11/24 8:00 PM	6.8581	11/12/24 7:10 AM	6.47	11/12/24 6:20 PM	6.2605

Observation Well HR-11

Date and Time	Depth to Water	Date and Time	Depth to Water	Date and Time	Depth to Water
11/12/24 6:30 PM	6.258	11/13/24 5:40 AM	6.1213	11/13/24 4:50 PM	5.9939
11/12/24 6:40 PM	6.2561	11/13/24 5:50 AM	6.1199	11/13/24 5:00 PM	5.9828
11/12/24 6:50 PM	6.2508	11/13/24 6:00 AM	6.1214	11/13/24 5:10 PM	5.979
11/12/24 7:00 PM	6.2465	11/13/24 6:10 AM	6.1227	11/13/24 5:20 PM	5.9742
11/12/24 7:10 PM	6.2416	11/13/24 6:20 AM	6.1218	11/13/24 5:30 PM	5.9713
11/12/24 7:20 PM	6.2392	11/13/24 6:30 AM	6.1218	11/13/24 5:40 PM	5.9676
11/12/24 7:30 PM	6.2369	11/13/24 6:40 AM	6.1216	11/13/24 5:50 PM	5.9626
11/12/24 7:40 PM	6.2347	11/13/24 6:50 AM	6.1208	11/13/24 6:00 PM	5.9586
11/12/24 7:50 PM	6.2307	11/13/24 7:00 AM	6.1174	11/13/24 6:10 PM	5.9549
11/12/24 8:00 PM	6.2284	11/13/24 7:10 AM	6.1169	11/13/24 6:20 PM	5.951
11/12/24 8:10 PM	6.2249	11/13/24 7:20 AM	6.1166	11/13/24 6:30 PM	5.9487
11/12/24 8:20 PM	6.2223	11/13/24 7:30 AM	6.1134	11/13/24 6:40 PM	5.9444
11/12/24 8:30 PM	6.218	11/13/24 7:40 AM	6.1131	11/13/24 6:50 PM	5.9409
11/12/24 8:40 PM	6.2112	11/13/24 7:50 AM	6.1153	11/13/24 7:00 PM	5.9368
11/12/24 8:50 PM	6.2081	11/13/24 8:00 AM	6.1112	11/13/24 7:10 PM	5.9331
11/12/24 9:00 PM	6.2057	11/13/24 8:10 AM	6.1075	11/13/24 7:20 PM	5.9299
11/12/24 9:10 PM	6.2012	11/13/24 8:20 AM	6.1051	11/13/24 7:30 PM	5.9262
11/12/24 9:20 PM	6.2024	11/13/24 8:30 AM	6.1058	11/13/24 7:40 PM	5.9227
11/12/24 9:30 PM	6.2003	11/13/24 8:40 AM	6.1021	11/13/24 7:50 PM	5.9186
11/12/24 9:40 PM	6.1993	11/13/24 8:50 AM	6.0976	11/13/24 8:00 PM	5.9145
11/12/24 9:50 PM	6.1946	11/13/24 9:00 AM	6.0932	11/13/24 8:10 PM	5.9109
11/12/24 10:00 PM	6.1931	11/13/24 9:10 AM	6.0936	11/13/24 8:20 PM	5.9063
11/12/24 10:10 PM	6.1913	11/13/24 9:20 AM	6.0958	11/13/24 8:30 PM	5.9031
11/12/24 10:20 PM	6.1902	11/13/24 9:30 AM	6.1012	11/13/24 8:40 PM	5.8984
11/12/24 10:30 PM	6.1866	11/13/24 9:40 AM	6.1069	11/13/24 8:50 PM	5.8957
11/12/24 10:40 PM	6.1863	11/13/24 9:50 AM	6.1004	11/13/24 9:00 PM	5.8921
11/12/24 10:50 PM	6.1814	11/13/24 10:00 AM	6.0923	11/13/24 9:10 PM	5.8878
11/12/24 11:00 PM	6.1798	11/13/24 10:10 AM	6.0941	11/13/24 9:20 PM	5.8845
11/12/24 11:10 PM	6.1791	11/13/24 10:20 AM	6.0949	11/13/24 9:30 PM	5.8801
11/12/24 11:20 PM	6.1765	11/13/24 10:30 AM	6.0939	11/13/24 9:40 PM	5.8759
11/12/24 11:30 PM	6.1732	11/13/24 10:40 AM	6.0893	11/13/24 9:50 PM	5.8731
11/12/24 11:40 PM	6.1725	11/13/24 10:50 AM	6.0928	11/13/24 10:00 PM	5.8686
11/12/24 11:50 PM	6.1708	11/13/24 11:00 AM	6.0869	11/13/24 10:10 PM	5.8648
11/13/24 12:00 AM	6.1691	11/13/24 11:10 AM	6.0823	11/13/24 10:20 PM	5.8617
11/13/24 12:10 AM	6.1694	11/13/24 11:20 AM	6.0813	11/13/24 10:30 PM	5.8586
11/13/24 12:20 AM	6.1704	11/13/24 11:30 AM	6.0812	11/13/24 10:40 PM	5.8544
11/13/24 12:30 AM	6.1672	11/13/24 11:40 AM	6.0799	11/13/24 10:50 PM	5.8508
11/13/24 12:40 AM	6.1654	11/13/24 11:50 AM	6.0789	11/13/24 11:00 PM	5.8482
11/13/24 12:50 AM	6.1642	11/13/24 12:00 PM	6.0744	11/13/24 11:10 PM	5.843
11/13/24 1:00 AM	6.1602	11/13/24 12:10 PM	6.0741	11/13/24 11:20 PM	5.841
11/13/24 1:10 AM	6.1572	11/13/24 12:20 PM	6.0658	11/13/24 11:30 PM	5.8368
11/13/24 1:20 AM	6.156	11/13/24 12:30 PM	6.069	11/13/24 11:40 PM	5.8342
11/13/24 1:30 AM	6.1533	11/13/24 12:40 PM	6.0692	11/13/24 11:50 PM	5.83
11/13/24 1:40 AM	6.1497	11/13/24 12:50 PM	6.0667	11/14/24 12:00 AM	5.8274
11/13/24 1:50 AM	6.1476	11/13/24 1:00 PM	6.0639	11/14/24 12:10 AM	5.8234
11/13/24 2:00 AM	6.1463	11/13/24 1:10 PM	6.0639	11/14/24 12:20 AM	5.8201
11/13/24 2:10 AM	6.1458	11/13/24 1:20 PM	6.0598	11/14/24 12:30 AM	5.8158
11/13/24 2:20 AM	6.1425	11/13/24 1:30 PM	6.0577	11/14/24 12:40 AM	5.8131
11/13/24 2:30 AM	6.1396	11/13/24 1:40 PM	6.0565	11/14/24 12:50 AM	5.8096
11/13/24 2:40 AM	6.1388	11/13/24 1:50 PM	6.0535	11/14/24 1:00 AM	5.8085
11/13/24 2:50 AM	6.1406	11/13/24 2:00 PM	6.052	11/14/24 1:10 AM	5.8048
11/13/24 3:00 AM	6.139	11/13/24 2:10 PM	6.0506	11/14/24 1:20 AM	5.803
11/13/24 3:10 AM	6.1387	11/13/24 2:20 PM	6.0493	11/14/24 1:30 AM	5.7991
11/13/24 3:20 AM	6.1358	11/13/24 2:30 PM	6.0465	11/14/24 1:40 AM	5.7985
11/13/24 3:30 AM	6.1361	11/13/24 2:40 PM	6.0444	11/14/24 1:50 AM	5.7939
11/13/24 3:40 AM	6.1352	11/13/24 2:50 PM	6.0415	11/14/24 2:00 AM	5.7932
11/13/24 3:50 AM	6.1337	11/13/24 3:00 PM	6.0385	11/14/24 2:10 AM	5.7906
11/13/24 4:00 AM	6.1344	11/13/24 3:10 PM	6.0357	11/14/24 2:20 AM	5.7879
11/13/24 4:10 AM	6.1331	11/13/24 3:20 PM	6.033	11/14/24 2:30 AM	5.7849
11/13/24 4:20 AM	6.1325	11/13/24 3:30 PM	6.0288	11/14/24 2:40 AM	5.7829
11/13/24 4:30 AM	6.1297	11/13/24 3:40 PM	6.0254	11/14/24 2:50 AM	5.78
11/13/24 4:40 AM	6.1277	11/13/24 3:50 PM	6.0211	11/14/24 3:00 AM	5.7771
11/13/24 4:50 AM	6.1256	11/13/24 4:00 PM	6.0174	11/14/24 3:10 AM	5.7744
11/13/24 5:00 AM	6.1255	11/13/24 4:10 PM	6.0132	11/14/24 3:20 AM	5.7722
11/13/24 5:10 AM	6.1236	11/13/24 4:20 PM	6.0084	11/14/24 3:30 AM	5.7682
11/13/24 5:20 AM	6.1227	11/13/24 4:30 PM	6.0045	11/14/24 3:40 AM	5.7674
11/13/24 5:30 AM	6.1223	11/13/24 4:40 PM	5.9998	11/14/24 3:50 AM	5.7662

Observation Well HR-11

Date and Time	Depth to Water	Date and Time	Depth to Water	Date and Time	Depth to Water
11/14/24 4:00 AM	5.7652	11/14/24 3:10 PM	5.6286	11/15/24 2:20 AM	5.5065
11/14/24 4:10 AM	5.7644	11/14/24 3:20 PM	5.6262	11/15/24 2:30 AM	5.5054
11/14/24 4:20 AM	5.7636	11/14/24 3:30 PM	5.6246	11/15/24 2:40 AM	5.505
11/14/24 4:30 AM	5.763	11/14/24 3:40 PM	5.6223	11/15/24 2:50 AM	5.5037
11/14/24 4:40 AM	5.761	11/14/24 3:50 PM	5.62	11/15/24 3:00 AM	5.5033
11/14/24 4:50 AM	5.7598	11/14/24 4:00 PM	5.6192	11/15/24 3:10 AM	5.5034
11/14/24 5:00 AM	5.7585	11/14/24 4:10 PM	5.617	11/15/24 3:20 AM	5.5023
11/14/24 5:10 AM	5.7587	11/14/24 4:20 PM	5.6142	11/15/24 3:30 AM	5.5016
11/14/24 5:20 AM	5.7576	11/14/24 4:30 PM	5.6148	11/15/24 3:40 AM	5.501
11/14/24 5:30 AM	5.7563	11/14/24 4:40 PM	5.612	11/15/24 3:50 AM	5.4997
11/14/24 5:40 AM	5.755	11/14/24 4:50 PM	5.6112	11/15/24 4:00 AM	5.4995
11/14/24 5:50 AM	5.7533	11/14/24 5:00 PM	5.6096	11/15/24 4:10 AM	5.4984
11/14/24 6:00 AM	5.752	11/14/24 5:10 PM	5.6067	11/15/24 4:20 AM	5.497
11/14/24 6:10 AM	5.7502	11/14/24 5:20 PM	5.6045	11/15/24 4:30 AM	5.496
11/14/24 6:20 AM	5.745	11/14/24 5:30 PM	5.6026	11/15/24 4:40 AM	5.4954
11/14/24 6:30 AM	5.7446	11/14/24 5:40 PM	5.6	11/15/24 4:50 AM	5.4946
11/14/24 6:40 AM	5.7441	11/14/24 5:50 PM	5.5982	11/15/24 5:00 AM	5.4928
11/14/24 6:50 AM	5.7434	11/14/24 6:00 PM	5.5975	11/15/24 5:10 AM	5.4917
11/14/24 7:00 AM	5.7422	11/14/24 6:10 PM	5.5954	11/15/24 5:20 AM	5.4904
11/14/24 7:10 AM	5.7393	11/14/24 6:20 PM	5.5948	11/15/24 5:30 AM	5.4893
11/14/24 7:20 AM	5.7384	11/14/24 6:30 PM	5.5929	11/15/24 5:40 AM	5.4876
11/14/24 7:30 AM	5.7364	11/14/24 6:40 PM	5.5901	11/15/24 5:50 AM	5.4877
11/14/24 7:40 AM	5.733	11/14/24 6:50 PM	5.5889	11/15/24 6:00 AM	5.4855
11/14/24 7:50 AM	5.7305	11/14/24 7:00 PM	5.5869	11/15/24 6:10 AM	5.4835
11/14/24 8:00 AM	5.7283	11/14/24 7:10 PM	5.5865	11/15/24 6:20 AM	5.4831
11/14/24 8:10 AM	5.726	11/14/24 7:20 PM	5.5839	11/15/24 6:30 AM	5.4816
11/14/24 8:20 AM	5.7229	11/14/24 7:30 PM	5.5812	11/15/24 6:40 AM	5.4794
11/14/24 8:30 AM	5.7206	11/14/24 7:40 PM	5.5802	11/15/24 6:50 AM	5.4791
11/14/24 8:40 AM	5.7183	11/14/24 7:50 PM	5.5796	11/15/24 7:00 AM	5.4763
11/14/24 8:50 AM	5.7135	11/14/24 8:00 PM	5.5784	11/15/24 7:10 AM	5.4746
11/14/24 9:00 AM	5.7104	11/14/24 8:10 PM	5.576	11/15/24 7:20 AM	5.473
11/14/24 9:10 AM	5.7067	11/14/24 8:20 PM	5.5746	11/15/24 7:30 AM	5.4702
11/14/24 9:20 AM	5.7032	11/14/24 8:30 PM	5.5724	11/15/24 7:40 AM	5.467
11/14/24 9:30 AM	5.7006	11/14/24 8:40 PM	5.5714	11/15/24 7:50 AM	5.4646
11/14/24 9:40 AM	5.6959	11/14/24 8:50 PM	5.5685	11/15/24 8:00 AM	5.4619
11/14/24 9:50 AM	5.6907	11/14/24 9:00 PM	5.5677	11/15/24 8:10 AM	5.4576
11/14/24 10:00 AM	5.6875	11/14/24 9:10 PM	5.5651	11/15/24 8:20 AM	5.4539
11/14/24 10:10 AM	5.6789	11/14/24 9:20 PM	5.564	11/15/24 8:30 AM	5.4502
11/14/24 10:20 AM	5.676	11/14/24 9:30 PM	5.5611	11/15/24 8:40 AM	5.4464
11/14/24 10:30 AM	5.6738	11/14/24 9:40 PM	5.5592	11/15/24 8:50 AM	5.4413
11/14/24 10:40 AM	5.6711	11/14/24 9:50 PM	5.5568	11/15/24 9:00 AM	5.4384
11/14/24 10:50 AM	5.6703	11/14/24 10:00 PM	5.5551	11/15/24 9:10 AM	5.4303
11/14/24 11:00 AM	5.6677	11/14/24 10:10 PM	5.5529	11/15/24 9:20 AM	5.4251
11/14/24 11:10 AM	5.6647	11/14/24 10:20 PM	5.5525	11/15/24 9:30 AM	5.4227
11/14/24 11:20 AM	5.6629	11/14/24 10:30 PM	5.5506	11/15/24 9:40 AM	5.4192
11/14/24 11:30 AM	5.661	11/14/24 10:40 PM	5.5494	11/15/24 9:50 AM	5.4164
11/14/24 11:40 AM	5.66	11/14/24 10:50 PM	5.5477	11/15/24 10:00 AM	5.4134
11/14/24 11:50 AM	5.6581	11/14/24 11:00 PM	5.547	11/15/24 10:10 AM	5.4104
11/14/24 12:00 PM	5.6558	11/14/24 11:10 PM	5.5447	11/15/24 10:20 AM	5.4064
11/14/24 12:10 PM	5.6539	11/14/24 11:20 PM	5.5424	11/15/24 10:30 AM	5.405
11/14/24 12:20 PM	5.6529	11/14/24 11:30 PM	5.5409	11/15/24 10:40 AM	5.4016
11/14/24 12:30 PM	5.6514	11/14/24 11:40 PM	5.5398	11/15/24 10:50 AM	5.3971
11/14/24 12:40 PM	5.6505	11/14/24 11:50 PM	5.5373	11/15/24 11:00 AM	5.3958
11/14/24 12:50 PM	5.6492	11/15/24 12:00 AM	5.5362	11/15/24 11:10 AM	5.3931
11/14/24 1:00 PM	5.6468	11/15/24 12:10 AM	5.5346	11/15/24 11:20 AM	5.3914
11/14/24 1:10 PM	5.6445	11/15/24 12:20 AM	5.532	11/15/24 11:30 AM	5.3898
11/14/24 1:20 PM	5.6421	11/15/24 12:30 AM	5.5302	11/15/24 11:40 AM	5.3879
11/14/24 1:30 PM	5.6417	11/15/24 12:40 AM	5.5291	11/15/24 11:50 AM	5.3866
11/14/24 1:40 PM	5.6398	11/15/24 12:50 AM	5.5274	11/15/24 12:00 PM	5.3821
11/14/24 1:50 PM	5.6386	11/15/24 1:00 AM	5.5254	11/15/24 12:10 PM	5.3799
11/14/24 2:00 PM	5.6379	11/15/24 1:10 AM	5.5232	11/15/24 12:20 PM	5.3782
11/14/24 2:10 PM	5.6367	11/15/24 1:20 AM	5.5199	11/15/24 12:30 PM	5.3748
11/14/24 2:20 PM	5.6357	11/15/24 1:30 AM	5.519	11/15/24 12:40 PM	5.3735
11/14/24 2:30 PM	5.6341	11/15/24 1:40 AM	5.5169	11/15/24 12:50 PM	5.3705
11/14/24 2:40 PM	5.6328	11/15/24 1:50 AM	5.515	11/15/24 1:00 PM	5.3695
11/14/24 2:50 PM	5.6303	11/15/24 2:00 AM	5.5072	11/15/24 1:10 PM	5.3671
11/14/24 3:00 PM	5.6289	11/15/24 2:10 AM	5.5066	11/15/24 1:20 PM	5.3652



Observation Well HR-11

Date and Time	Depth to Water	Date and Time	Depth to Water	Date and Time	Depth to Water
11/15/24 1:30 PM	5.3617	11/16/24 12:40 AM	5.2165		
11/15/24 1:40 PM	5.3615	11/16/24 12:50 AM	5.2148		
11/15/24 1:50 PM	5.3591	11/16/24 1:00 AM	5.2148		
11/15/24 2:00 PM	5.3543	11/16/24 1:10 AM	5.2128		
11/15/24 2:10 PM	5.3546	11/16/24 1:20 AM	5.2115		
11/15/24 2:20 PM	5.3513	11/16/24 1:30 AM	5.21		
11/15/24 2:30 PM	5.3467	11/16/24 1:40 AM	5.2089		
11/15/24 2:40 PM	5.347	11/16/24 1:50 AM	5.2062		
11/15/24 2:50 PM	5.3427	11/16/24 2:00 AM	5.2066		
11/15/24 3:00 PM	5.3405	11/16/24 2:10 AM	5.2056		
11/15/24 3:10 PM	5.3385	11/16/24 2:20 AM	5.2047		
11/15/24 3:20 PM	5.3364	11/16/24 2:30 AM	5.2018		
11/15/24 3:30 PM	5.3325	11/16/24 2:40 AM	5.2012		
11/15/24 3:40 PM	5.3311	11/16/24 2:50 AM	5.2		
11/15/24 3:50 PM	5.327	11/16/24 3:00 AM	5.1974		
11/15/24 4:00 PM	5.3263	11/16/24 3:10 AM	5.1942		
11/15/24 4:10 PM	5.3264	11/16/24 3:20 AM	5.1947		
11/15/24 4:20 PM	5.3224	11/16/24 3:30 AM	5.1911		
11/15/24 4:30 PM	5.3184	11/16/24 3:40 AM	5.1889		
11/15/24 4:40 PM	5.3174	11/16/24 3:50 AM	5.1879		
11/15/24 4:50 PM	5.3108	11/16/24 4:00 AM	5.1835		
11/15/24 5:00 PM	5.3117	11/16/24 4:10 AM	5.1806		
11/15/24 5:10 PM	5.3048	11/16/24 4:20 AM	5.1777		
11/15/24 5:20 PM	5.308	11/16/24 4:30 AM	5.1734		
11/15/24 5:30 PM	5.3036	11/16/24 4:40 AM	5.1704		
11/15/24 5:40 PM	5.3004	11/16/24 4:50 AM	5.164		
11/15/24 5:50 PM	5.2969	11/16/24 5:00 AM	5.1607		
11/15/24 6:00 PM	5.2965	11/16/24 5:10 AM	5.1587		
11/15/24 6:10 PM	5.293	11/16/24 5:20 AM	5.1579		
11/15/24 6:20 PM	5.2897	11/16/24 5:30 AM	5.1539		
11/15/24 6:30 PM	5.2864	11/16/24 5:40 AM	5.1512		
11/15/24 6:40 PM	5.2827	11/16/24 5:50 AM	5.1491		
11/15/24 6:50 PM	5.2804	11/16/24 6:00 AM	5.1475		
11/15/24 7:00 PM	5.2788	11/16/24 6:10 AM	5.1434		
11/15/24 7:10 PM	5.2758	11/16/24 6:20 AM	5.1415		
11/15/24 7:20 PM	5.2726	11/16/24 6:30 AM	5.1385		
11/15/24 7:30 PM	5.271	11/16/24 6:40 AM	5.1378		
11/15/24 7:40 PM	5.2669	11/16/24 6:50 AM	5.1344		
11/15/24 7:50 PM	5.2639	11/16/24 7:00 AM	5.1341		
11/15/24 8:00 PM	5.2644	11/16/24 7:10 AM	5.1294		
11/15/24 8:10 PM	5.2611	11/16/24 7:20 AM	5.1258		
11/15/24 8:20 PM	5.2583	11/16/24 7:30 AM	5.1236		
11/15/24 8:30 PM	5.2558	11/16/24 7:40 AM	5.1207		
11/15/24 8:40 PM	5.253	11/16/24 7:50 AM	5.1183		
11/15/24 8:50 PM	5.2509	11/16/24 8:00 AM	5.1174		
11/15/24 9:00 PM	5.2482	11/16/24 8:10 AM	5.1134		
11/15/24 9:10 PM	5.2466	11/16/24 8:20 AM	5.1092		
11/15/24 9:20 PM	5.2443	11/16/24 8:30 AM	5.1077		
11/15/24 9:30 PM	5.241	11/16/24 8:40 AM	5.1051		
11/15/24 9:40 PM	5.2401	11/16/24 8:50 AM	5.1033		
11/15/24 9:50 PM	5.2333	11/16/24 9:00 AM	5.1011		
11/15/24 10:00 PM	5.2325	11/16/24 9:10 AM	5.0969		
11/15/24 10:10 PM	5.2306	11/16/24 9:20 AM	5.0957		
11/15/24 10:20 PM	5.2305	11/16/24 9:30 AM	5.0928		
11/15/24 10:30 PM	5.2293	11/16/24 9:40 AM	5.09		
11/15/24 10:40 PM	5.2289	11/16/24 9:50 AM	5.0878		
11/15/24 10:50 PM	5.227				
11/15/24 11:00 PM	5.2261				
11/15/24 11:10 PM	5.2241				
11/15/24 11:20 PM	5.2243				
11/15/24 11:30 PM	5.2232				
11/15/24 11:40 PM	5.2221				
11/15/24 11:50 PM	5.221				
11/16/24 12:00 AM	5.2202				
11/16/24 12:10 AM	5.2194				
11/16/24 12:20 AM	5.2184				
11/16/24 12:30 AM	5.2173				

Observation Well HR-13

Date and Time	Depth to Water	Date and Time	Depth to Water	Date and Time	Depth to Water
11/11/24 9:00 AM	95	11/11/24 6:50 PM	37.1869	11/12/24 4:40 AM	29.0215
11/11/24 9:10 AM	94.9716	11/11/24 7:00 PM	36.9345	11/12/24 4:50 AM	28.9485
11/11/24 9:20 AM	94.9764	11/11/24 7:10 PM	36.69	11/12/24 5:00 AM	28.8764
11/11/24 9:30 AM	94.9877	11/11/24 7:20 PM	36.4445	11/12/24 5:10 AM	28.801
11/11/24 9:40 AM	94.988	11/11/24 7:30 PM	36.2159	11/12/24 5:20 AM	28.7239
11/11/24 9:50 AM	95	11/11/24 7:40 PM	35.9914	11/12/24 5:30 AM	28.6669
11/11/24 10:00 AM	95.0128	11/11/24 7:50 PM	35.7758	11/12/24 5:40 AM	28.6009
11/11/24 10:10 AM	94.9845	11/11/24 8:00 PM	35.5669	11/12/24 5:50 AM	28.5329
11/11/24 10:20 AM	94.9737	11/11/24 8:10 PM	35.3655	11/12/24 6:00 AM	28.4619
11/11/24 10:30 AM	93.6326	11/11/24 8:20 PM	35.1665	11/12/24 6:10 AM	28.3979
11/11/24 10:40 AM	87.9902	11/11/24 8:30 PM	34.9725	11/12/24 6:20 AM	28.3359
11/11/24 10:50 AM	84.0719	11/11/24 8:40 PM	34.7793	11/12/24 6:30 AM	28.2719
11/11/24 11:00 AM	80.5066	11/11/24 8:50 PM	34.5949	11/12/24 6:40 AM	28.2099
11/11/24 11:10 AM	77.4189	11/11/24 9:00 PM	34.4123	11/12/24 6:50 AM	28.1419
11/11/24 11:20 AM	74.6061	11/11/24 9:10 PM	34.235	11/12/24 7:00 AM	28.0799
11/11/24 11:30 AM	72.0252	11/11/24 9:20 PM	34.0631	11/12/24 7:10 AM	28.0159
11/11/24 11:40 AM	69.7879	11/11/24 9:30 PM	33.9001	11/12/24 7:20 AM	27.9559
11/11/24 11:50 AM	67.6175	11/11/24 9:40 PM	33.7359	11/12/24 7:30 AM	27.8939
11/11/24 12:00 PM	65.6596	11/11/24 9:50 PM	33.5676	11/12/24 7:40 AM	27.8309
11/11/24 12:10 PM	63.7885	11/11/24 10:00 PM	33.4109	11/12/24 7:50 AM	27.7789
11/11/24 12:20 PM	62.0317	11/11/24 10:10 PM	33.2536	11/12/24 8:00 AM	27.7069
11/11/24 12:30 PM	60.4688	11/11/24 10:20 PM	33.1	11/12/24 8:10 AM	27.6519
11/11/24 12:40 PM	59.0054	11/11/24 10:30 PM	32.9488	11/12/24 8:20 AM	27.5899
11/11/24 12:50 PM	57.7429	11/11/24 10:40 PM	32.8037	11/12/24 8:30 AM	27.5319
11/11/24 1:00 PM	56.6189	11/11/24 10:50 PM	32.6629	11/12/24 8:40 AM	27.4749
11/11/24 1:10 PM	55.5005	11/11/24 11:00 PM	32.5236	11/12/24 8:50 AM	27.4139
11/11/24 1:20 PM	54.4224	11/11/24 11:10 PM	32.3857	11/12/24 9:00 AM	27.3499
11/11/24 1:30 PM	53.5117	11/11/24 11:20 PM	32.2523	11/12/24 9:10 AM	27.2929
11/11/24 1:40 PM	52.6183	11/11/24 11:30 PM	32.1208	11/12/24 9:20 AM	27.2929
11/11/24 1:50 PM	51.7743	11/11/24 11:40 PM	31.9874	11/12/24 9:30 AM	27.2333
11/11/24 2:00 PM	51.0611	11/11/24 11:50 PM	31.8599	11/12/24 9:40 AM	27.1732
11/11/24 2:10 PM	50.3247	11/12/24 12:00 AM	31.7315	11/12/24 9:50 AM	27.1167
11/11/24 2:20 PM	49.5951	11/12/24 12:10 AM	31.6069	11/12/24 10:00 AM	27.06
11/11/24 2:30 PM	48.8916	11/12/24 12:20 AM	31.4861	11/12/24 10:10 AM	27.0013
11/11/24 2:40 PM	48.1761	11/12/24 12:30 AM	31.3613	11/12/24 10:20 AM	26.9445
11/11/24 2:50 PM	47.5279	11/12/24 12:40 AM	31.2472	11/12/24 10:30 AM	26.888
11/11/24 3:00 PM	46.9201	11/12/24 12:50 AM	31.136	11/12/24 10:40 AM	26.8131
11/11/24 3:10 PM	46.3332	11/12/24 1:00 AM	31.0219	11/12/24 10:50 AM	26.7559
11/11/24 3:20 PM	45.7691	11/12/24 1:10 AM	30.9109	11/12/24 11:00 AM	26.7011
11/11/24 3:30 PM	45.2254	11/12/24 1:20 AM	30.8042	11/12/24 11:10 AM	26.6473
11/11/24 3:40 PM	44.7199	11/12/24 1:30 AM	30.6969	11/12/24 11:20 AM	26.5913
11/11/24 3:50 PM	44.2434	11/12/24 1:40 AM	30.5968	11/12/24 11:30 AM	26.545
11/11/24 4:00 PM	43.8126	11/12/24 1:50 AM	30.4913	11/12/24 11:40 AM	26.5029
11/11/24 4:10 PM	43.406	11/12/24 2:00 AM	30.3901	11/12/24 11:50 AM	26.4514
11/11/24 4:20 PM	42.8919	11/12/24 2:10 AM	30.2907	11/12/24 12:00 PM	26.3992
11/11/24 4:30 PM	42.3112	11/12/24 2:20 AM	30.1966	11/12/24 12:10 PM	26.3507
11/11/24 4:40 PM	41.7855	11/12/24 2:30 AM	30.1003	11/12/24 12:20 PM	26.2985
11/11/24 4:50 PM	41.3034	11/12/24 2:40 AM	30.0084	11/12/24 12:30 PM	26.2497
11/11/24 5:00 PM	40.8516	11/12/24 2:50 AM	29.9193	11/12/24 12:40 PM	26.2021
11/11/24 5:10 PM	40.4292	11/12/24 3:00 AM	29.8296	11/12/24 12:50 PM	26.1569
11/11/24 5:20 PM	40.0342	11/12/24 3:10 AM	29.7414	11/12/24 1:00 PM	26.111
11/11/24 5:30 PM	39.6533	11/12/24 3:20 AM	29.6585	11/12/24 1:10 PM	26.0716
11/11/24 5:40 PM	39.2959	11/12/24 3:30 AM	29.5767	11/12/24 1:20 PM	26.0278
11/11/24 5:50 PM	38.9523	11/12/24 3:40 AM	29.4902	11/12/24 1:30 PM	25.9798
11/11/24 6:00 PM	38.6255	11/12/24 3:50 AM	29.4098	11/12/24 1:40 PM	25.9221
11/11/24 6:10 PM	38.3163	11/12/24 4:00 AM	29.33	11/12/24 1:50 PM	25.8769
11/11/24 6:20 PM	38.0165	11/12/24 4:10 AM	29.2543	11/12/24 2:00 PM	25.8323
11/11/24 6:30 PM	37.7308	11/12/24 4:20 AM	29.1758	11/12/24 2:10 PM	25.795
11/11/24 6:40 PM	37.4523	11/12/24 4:30 AM	29.0992	11/12/24 2:20 PM	25.7481

Observation Well HR-13

Date and Time	Depth to Water	Date and Time	Depth to Water	Date and Time	Depth to Water
11/12/24 2:30 PM	25.6995	11/13/24 12:20 AM	23.9331	11/13/24 10:10 AM	22.8997
11/12/24 2:40 PM	25.6682	11/13/24 12:30 AM	23.9044	11/13/24 10:20 AM	22.889
11/12/24 2:50 PM	25.6297	11/13/24 12:40 AM	23.8744	11/13/24 10:30 AM	22.8649
11/12/24 3:00 PM	25.5921	11/13/24 12:50 AM	23.8478	11/13/24 10:40 AM	22.8457
11/12/24 3:10 PM	25.5539	11/13/24 1:00 AM	23.8129	11/13/24 10:50 AM	22.8314
11/12/24 3:20 PM	25.5107	11/13/24 1:10 AM	23.7797	11/13/24 11:00 AM	22.8112
11/12/24 3:30 PM	25.468	11/13/24 1:20 AM	23.7535	11/13/24 11:10 AM	22.7884
11/12/24 3:40 PM	25.4325	11/13/24 1:30 AM	23.7241	11/13/24 11:20 AM	22.764
11/12/24 3:50 PM	25.4011	11/13/24 1:40 AM	23.6929	11/13/24 11:30 AM	22.7398
11/12/24 4:00 PM	25.3643	11/13/24 1:50 AM	23.6664	11/13/24 11:40 AM	22.7305
11/12/24 4:10 PM	25.3242	11/13/24 2:00 AM	23.6387	11/13/24 11:50 AM	22.7004
11/12/24 4:20 PM	25.2852	11/13/24 2:10 AM	23.6203	11/13/24 12:00 PM	22.6713
11/12/24 4:30 PM	25.2467	11/13/24 2:20 AM	23.5934	11/13/24 12:10 PM	22.6433
11/12/24 4:40 PM	25.2068	11/13/24 2:30 AM	23.5673	11/13/24 12:20 PM	22.5936
11/12/24 4:50 PM	25.1833	11/13/24 2:40 AM	23.5446	11/13/24 12:30 PM	22.5847
11/12/24 5:00 PM	25.1517	11/13/24 2:50 AM	23.5317	11/13/24 12:40 PM	22.5675
11/12/24 5:10 PM	25.1244	11/13/24 3:00 AM	23.5128	11/13/24 12:50 PM	22.5469
11/12/24 5:20 PM	25.0902	11/13/24 3:10 AM	23.4963	11/13/24 1:00 PM	22.5224
11/12/24 5:30 PM	25.0662	11/13/24 3:20 AM	23.4775	11/13/24 1:10 PM	22.5036
11/12/24 5:40 PM	25.0364	11/13/24 3:30 AM	23.4593	11/13/24 1:20 PM	22.4852
11/12/24 5:50 PM	25.0104	11/13/24 3:40 AM	23.444	11/13/24 1:30 PM	22.4657
11/12/24 6:00 PM	24.9855	11/13/24 3:50 AM	23.427	11/13/24 1:40 PM	22.4464
11/12/24 6:10 PM	24.9509	11/13/24 4:00 AM	23.4116	11/13/24 1:50 PM	22.4259
11/12/24 6:20 PM	24.9275	11/13/24 4:10 AM	23.3956	11/13/24 2:00 PM	22.4044
11/12/24 6:30 PM	24.9004	11/13/24 4:20 AM	23.3816	11/13/24 2:10 PM	22.3888
11/12/24 6:40 PM	24.876	11/13/24 4:30 AM	23.3628	11/13/24 2:20 PM	22.3707
11/12/24 6:50 PM	24.8466	11/13/24 4:40 AM	23.3398	11/13/24 2:30 PM	22.3522
11/12/24 7:00 PM	24.8162	11/13/24 4:50 AM	23.3243	11/13/24 2:40 PM	22.3363
11/12/24 7:10 PM	24.7836	11/13/24 5:00 AM	23.3087	11/13/24 2:50 PM	22.3218
11/12/24 7:20 PM	24.7575	11/13/24 5:10 AM	23.2955	11/13/24 3:00 PM	22.3027
11/12/24 7:30 PM	24.736	11/13/24 5:20 AM	23.2846	11/13/24 3:10 PM	22.287
11/12/24 7:40 PM	24.711	11/13/24 5:30 AM	23.2733	11/13/24 3:20 PM	22.2719
11/12/24 7:50 PM	24.686	11/13/24 5:40 AM	23.2624	11/13/24 3:30 PM	22.2551
11/12/24 8:00 PM	24.6557	11/13/24 5:50 AM	23.2517	11/13/24 3:40 PM	22.2358
11/12/24 8:10 PM	24.6288	11/13/24 6:00 AM	23.2492	11/13/24 3:50 PM	22.2254
11/12/24 8:20 PM	24.6016	11/13/24 6:10 AM	23.2383	11/13/24 4:00 PM	22.2141
11/12/24 8:30 PM	24.5713	11/13/24 6:20 AM	23.2319	11/13/24 4:10 PM	22.2027
11/12/24 8:40 PM	24.5472	11/13/24 6:30 AM	23.2234	11/13/24 4:20 PM	22.1928
11/12/24 8:50 PM	24.5193	11/13/24 6:40 AM	23.2121	11/13/24 4:30 PM	22.1845
11/12/24 9:00 PM	24.4883	11/13/24 6:50 AM	23.202	11/13/24 4:40 PM	22.1745
11/12/24 9:10 PM	24.456	11/13/24 7:00 AM	23.1815	11/13/24 4:50 PM	22.162
11/12/24 9:20 PM	24.4359	11/13/24 7:10 AM	23.1702	11/13/24 5:00 PM	22.1515
11/12/24 9:30 PM	24.4153	11/13/24 7:20 AM	23.1594	11/13/24 5:10 PM	22.1414
11/12/24 9:40 PM	24.3929	11/13/24 7:30 AM	23.1399	11/13/24 5:20 PM	22.1301
11/12/24 9:50 PM	24.3578	11/13/24 7:40 AM	23.1293	11/13/24 5:30 PM	22.1227
11/12/24 10:00 PM	24.3275	11/13/24 7:50 AM	23.1284	11/13/24 5:40 PM	22.1163
11/12/24 10:10 PM	24.2982	11/13/24 8:00 AM	23.1038	11/13/24 5:50 PM	22.1078
11/12/24 10:20 PM	24.2717	11/13/24 8:10 AM	23.0786	11/13/24 6:00 PM	22.0998
11/12/24 10:30 PM	24.2379	11/13/24 8:20 AM	23.0642	11/13/24 6:10 PM	22.0941
11/12/24 10:40 PM	24.2129	11/13/24 8:30 AM	23.0548	11/13/24 6:20 PM	22.087
11/12/24 10:50 PM	24.1762	11/13/24 8:40 AM	23.0347	11/13/24 6:30 PM	22.0834
11/12/24 11:00 PM	24.1482	11/13/24 8:50 AM	23.0101	11/13/24 6:40 PM	22.076
11/12/24 11:10 PM	24.1226	11/13/24 9:00 AM	22.9887	11/13/24 6:50 PM	22.0734
11/12/24 11:20 PM	24.0939	11/13/24 9:10 AM	22.9807	11/13/24 7:00 PM	22.0655
11/12/24 11:30 PM	24.0622	11/13/24 9:20 AM	22.978	11/13/24 7:10 PM	22.0588
11/12/24 11:40 PM	24.0344	11/13/24 9:30 AM	22.99	11/13/24 7:20 PM	22.0541
11/12/24 11:50 PM	24.0052	11/13/24 9:40 AM	22.9918	11/13/24 7:30 PM	22.049
11/13/24 12:00 AM	23.977	11/13/24 9:50 AM	22.9527	11/13/24 7:40 PM	22.0432
11/13/24 12:10 AM	23.956	11/13/24 10:00 AM	22.923	11/13/24 7:50 PM	22.0355

Observation Well HR-13

Date and Time	Depth to Water	Date and Time	Depth to Water	Date and Time	Depth to Water
11/13/24 8:00 PM	22.0267	11/14/24 5:50 AM	21.3064	11/14/24 3:40 PM	20.7507
11/13/24 8:10 PM	22.0202	11/14/24 6:00 AM	21.2984	11/14/24 3:50 PM	20.739
11/13/24 8:20 PM	22.0096	11/14/24 6:10 AM	21.2901	11/14/24 4:00 PM	20.7334
11/13/24 8:30 PM	22.0028	11/14/24 6:20 AM	21.2785	11/14/24 4:10 PM	20.7254
11/13/24 8:40 PM	21.992	11/14/24 6:30 AM	21.272	11/14/24 4:20 PM	20.7224
11/13/24 8:50 PM	21.9842	11/14/24 6:40 AM	21.2689	11/14/24 4:30 PM	20.7201
11/13/24 9:00 PM	21.9736	11/14/24 6:50 AM	21.2645	11/14/24 4:40 PM	20.7178
11/13/24 9:10 PM	21.9639	11/14/24 7:00 AM	21.2597	11/14/24 4:50 PM	20.7178
11/13/24 9:20 PM	21.954	11/14/24 7:10 AM	21.2539	11/14/24 5:00 PM	20.7163
11/13/24 9:30 PM	21.9401	11/14/24 7:20 AM	21.25	11/14/24 5:10 PM	20.7166
11/13/24 9:40 PM	21.9265	11/14/24 7:30 AM	21.2462	11/14/24 5:20 PM	20.7145
11/13/24 9:50 PM	21.9169	11/14/24 7:40 AM	21.2368	11/14/24 5:30 PM	20.7129
11/13/24 10:00 PM	21.9029	11/14/24 7:50 AM	21.2263	11/14/24 5:40 PM	20.7108
11/13/24 10:10 PM	21.8899	11/14/24 8:00 AM	21.2165	11/14/24 5:50 PM	20.7123
11/13/24 10:20 PM	21.8771	11/14/24 8:10 AM	21.2116	11/14/24 6:00 PM	20.7148
11/13/24 10:30 PM	21.8672	11/14/24 8:20 AM	21.2041	11/14/24 6:10 PM	20.7181
11/13/24 10:40 PM	21.853	11/14/24 8:30 AM	21.1991	11/14/24 6:20 PM	20.7212
11/13/24 10:50 PM	21.8388	11/14/24 8:40 AM	21.1948	11/14/24 6:30 PM	20.7233
11/13/24 11:00 PM	21.8268	11/14/24 8:50 AM	21.1874	11/14/24 6:40 PM	20.7265
11/13/24 11:10 PM	21.8069	11/14/24 9:00 AM	21.1801	11/14/24 6:50 PM	20.7296
11/13/24 11:20 PM	21.7942	11/14/24 9:10 AM	21.1734	11/14/24 7:00 PM	20.7346
11/13/24 11:30 PM	21.7766	11/14/24 9:20 AM	21.1659	11/14/24 7:10 PM	20.7414
11/13/24 11:40 PM	21.7623	11/14/24 9:30 AM	21.1598	11/14/24 7:20 PM	20.7429
11/13/24 11:50 PM	21.7453	11/14/24 9:40 AM	21.1508	11/14/24 7:30 PM	20.7431
11/14/24 12:00 AM	21.73	11/14/24 9:50 AM	21.1378	11/14/24 7:40 PM	20.7496
11/14/24 12:10 AM	21.7094	11/14/24 10:00 AM	21.1288	11/14/24 7:50 PM	20.7557
11/14/24 12:20 AM	21.691	11/14/24 10:10 AM	21.1188	11/14/24 8:00 PM	20.7595
11/14/24 12:30 AM	21.6729	11/14/24 10:20 AM	21.1097	11/14/24 8:10 PM	20.7639
11/14/24 12:40 AM	21.656	11/14/24 10:30 AM	21.1003	11/14/24 8:20 PM	20.7644
11/14/24 12:50 AM	21.6381	11/14/24 10:40 AM	21.0909	11/14/24 8:30 PM	20.7672
11/14/24 1:00 AM	21.6255	11/14/24 10:50 AM	21.0826	11/14/24 8:40 PM	20.7699
11/14/24 1:10 AM	21.6109	11/14/24 11:00 AM	21.0746	11/14/24 8:50 PM	20.7691
11/14/24 1:20 AM	21.5968	11/14/24 11:10 AM	21.0613	11/14/24 9:00 PM	20.7726
11/14/24 1:30 AM	21.5802	11/14/24 11:20 AM	21.0485	11/14/24 9:10 PM	20.7742
11/14/24 1:40 AM	21.5699	11/14/24 11:30 AM	21.038	11/14/24 9:20 PM	20.7744
11/14/24 1:50 AM	21.5504	11/14/24 11:40 AM	21.0289	11/14/24 9:30 PM	20.7732
11/14/24 2:00 AM	21.5382	11/14/24 11:50 AM	21.0185	11/14/24 9:40 PM	20.774
11/14/24 2:10 AM	21.5228	11/14/24 12:00 PM	21.0044	11/14/24 9:50 PM	20.7705
11/14/24 2:20 AM	21.5095	11/14/24 12:10 PM	20.9906	11/14/24 10:00 PM	20.7687
11/14/24 2:30 AM	21.4933	11/14/24 12:20 PM	20.9807	11/14/24 10:10 PM	20.767
11/14/24 2:40 AM	21.4809	11/14/24 12:30 PM	20.9682	11/14/24 10:20 PM	20.7685
11/14/24 2:50 AM	21.4674	11/14/24 12:40 PM	20.956	11/14/24 10:30 PM	20.767
11/14/24 3:00 AM	21.4503	11/14/24 12:50 PM	20.944	11/14/24 10:40 PM	20.7638
11/14/24 3:10 AM	21.4376	11/14/24 1:00 PM	20.9313	11/14/24 10:50 PM	20.762
11/14/24 3:20 AM	21.4256	11/14/24 1:10 PM	20.9167	11/14/24 11:00 PM	20.7609
11/14/24 3:30 AM	21.4124	11/14/24 1:20 PM	20.9022	11/14/24 11:10 PM	20.7536
11/14/24 3:40 AM	21.4035	11/14/24 1:30 PM	20.8879	11/14/24 11:20 PM	20.748
11/14/24 3:50 AM	21.3934	11/14/24 1:40 PM	20.8775	11/14/24 11:30 PM	20.7422
11/14/24 4:00 AM	21.3848	11/14/24 1:50 PM	20.8653	11/14/24 11:40 PM	20.7357
11/14/24 4:10 AM	21.3755	11/14/24 2:00 PM	20.8541	11/14/24 11:50 PM	20.73
11/14/24 4:20 AM	21.3696	11/14/24 2:10 PM	20.8448	11/15/24 12:00 AM	20.721
11/14/24 4:30 AM	21.3593	11/14/24 2:20 PM	20.8353	11/15/24 12:10 AM	20.7118
11/14/24 4:40 AM	21.3515	11/14/24 2:30 PM	20.822	11/15/24 12:20 AM	20.7022
11/14/24 4:50 AM	21.3405	11/14/24 2:40 PM	20.8099	11/15/24 12:30 AM	20.6901
11/14/24 5:00 AM	21.3294	11/14/24 2:50 PM	20.7985	11/15/24 12:40 AM	20.6822
11/14/24 5:10 AM	21.327	11/14/24 3:00 PM	20.7899	11/15/24 12:50 AM	20.6719
11/14/24 5:20 AM	21.3229	11/14/24 3:10 PM	20.7791	11/15/24 1:00 AM	20.6607
11/14/24 5:30 AM	21.3158	11/14/24 3:20 PM	20.7702	11/15/24 1:10 AM	20.6473
11/14/24 5:40 AM	21.3116	11/14/24 3:30 PM	20.7603	11/15/24 1:20 AM	20.6332

Observation Well HR-13

Date and Time	Depth to Water	Date and Time	Depth to Water	Date and Time	Depth to Water
11/15/24 1:30 AM	20.6208	11/15/24 11:20 AM	20.1856	11/15/24 9:10 PM	19.8759
11/15/24 1:40 AM	20.6084	11/15/24 11:30 AM	20.1812	11/15/24 9:20 PM	19.8824
11/15/24 1:50 AM	20.594	11/15/24 11:40 AM	20.1734	11/15/24 9:30 PM	19.8884
11/15/24 2:00 AM	20.5797	11/15/24 11:50 AM	20.1668	11/15/24 9:40 PM	19.8913
11/15/24 2:10 AM	20.567	11/15/24 12:00 PM	20.1596	11/15/24 9:50 PM	19.8956
11/15/24 2:20 AM	20.5542	11/15/24 12:10 PM	20.1452	11/15/24 10:00 PM	19.8954
11/15/24 2:30 AM	20.5403	11/15/24 12:20 PM	20.1359	11/15/24 10:10 PM	19.8947
11/15/24 2:40 AM	20.5274	11/15/24 12:30 PM	20.1247	11/15/24 10:20 PM	19.8985
11/15/24 2:50 AM	20.5146	11/15/24 12:40 PM	20.1132	11/15/24 10:30 PM	19.897
11/15/24 3:00 AM	20.5044	11/15/24 12:50 PM	20.1006	11/15/24 10:40 PM	19.897
11/15/24 3:10 AM	20.4937	11/15/24 1:00 PM	20.0913	11/15/24 10:50 PM	19.8933
11/15/24 3:20 AM	20.4822	11/15/24 1:10 PM	20.0794	11/15/24 11:00 PM	19.8903
11/15/24 3:30 AM	20.4718	11/15/24 1:20 PM	20.0695	11/15/24 11:10 PM	19.889
11/15/24 3:40 AM	20.4633	11/15/24 1:30 PM	20.0562	11/15/24 11:20 PM	19.8888
11/15/24 3:50 AM	20.4502	11/15/24 1:40 PM	20.0432	11/15/24 11:30 PM	19.8831
11/15/24 4:00 AM	20.4434	11/15/24 1:50 PM	20.0293	11/15/24 11:40 PM	19.8821
11/15/24 4:10 AM	20.4305	11/15/24 2:00 PM	20.0174	11/15/24 11:50 PM	19.8767
11/15/24 4:20 AM	20.4199	11/15/24 2:10 PM	20.0048	11/16/24 12:00 AM	19.8733
11/15/24 4:30 AM	20.4113	11/15/24 2:20 PM	19.9902	11/16/24 12:10 AM	19.871
11/15/24 4:40 AM	20.4023	11/15/24 2:30 PM	19.9759	11/16/24 12:20 AM	19.8672
11/15/24 4:50 AM	20.3959	11/15/24 2:40 PM	19.9632	11/16/24 12:30 AM	19.8588
11/15/24 5:00 AM	20.3851	11/15/24 2:50 PM	19.9506	11/16/24 12:40 AM	19.8521
11/15/24 5:10 AM	20.3774	11/15/24 3:00 PM	19.9344	11/16/24 12:50 AM	19.8474
11/15/24 5:20 AM	20.3716	11/15/24 3:10 PM	19.9205	11/16/24 1:00 AM	19.8395
11/15/24 5:30 AM	20.3658	11/15/24 3:20 PM	19.9105	11/16/24 1:10 AM	19.8302
11/15/24 5:40 AM	20.3612	11/15/24 3:30 PM	19.8984	11/16/24 1:20 AM	19.8186
11/15/24 5:50 AM	20.3567	11/15/24 3:40 PM	19.8856	11/16/24 1:30 AM	19.8068
11/15/24 6:00 AM	20.3514	11/15/24 3:50 PM	19.876	11/16/24 1:40 AM	19.7979
11/15/24 6:10 AM	20.3461	11/15/24 4:00 PM	19.8677	11/16/24 1:50 AM	19.7822
11/15/24 6:20 AM	20.3439	11/15/24 4:10 PM	19.8601	11/16/24 2:00 AM	19.771
11/15/24 6:30 AM	20.3411	11/15/24 4:20 PM	19.8511	11/16/24 2:10 AM	19.7626
11/15/24 6:40 AM	20.3365	11/15/24 4:30 PM	19.846	11/16/24 2:20 AM	19.7574
11/15/24 6:50 AM	20.3351	11/15/24 4:40 PM	19.8441	11/16/24 2:30 AM	19.7438
11/15/24 7:00 AM	20.3305	11/15/24 4:50 PM	19.8363	11/16/24 2:40 AM	19.7316
11/15/24 7:10 AM	20.3273	11/15/24 5:00 PM	19.8312	11/16/24 2:50 AM	19.7203
11/15/24 7:20 AM	20.3227	11/15/24 5:10 PM	19.8299	11/16/24 3:00 AM	19.7058
11/15/24 7:30 AM	20.3188	11/15/24 5:20 PM	19.8267	11/16/24 3:10 AM	19.6927
11/15/24 7:40 AM	20.3129	11/15/24 5:30 PM	19.827	11/16/24 3:20 AM	19.6863
11/15/24 7:50 AM	20.3102	11/15/24 5:40 PM	19.8254	11/16/24 3:30 AM	19.6731
11/15/24 8:00 AM	20.3076	11/15/24 5:50 PM	19.8218	11/16/24 3:40 AM	19.6625
11/15/24 8:10 AM	20.3038	11/15/24 6:00 PM	19.8222	11/16/24 3:50 AM	19.6565
11/15/24 8:20 AM	20.3004	11/15/24 6:10 PM	19.8211	11/16/24 4:00 AM	19.6425
11/15/24 8:30 AM	20.2957	11/15/24 6:20 PM	19.8202	11/16/24 4:10 AM	19.6343
11/15/24 8:40 AM	20.2892	11/15/24 6:30 PM	19.8184	11/16/24 4:20 AM	19.6236
11/15/24 8:50 AM	20.2871	11/15/24 6:40 PM	19.8175	11/16/24 4:30 AM	19.6078
11/15/24 9:00 AM	20.2836	11/15/24 6:50 PM	19.819	11/16/24 4:40 AM	19.5977
11/15/24 9:10 AM	20.279	11/15/24 7:00 PM	19.8235	11/16/24 4:50 AM	19.5936
11/15/24 9:20 AM	20.2722	11/15/24 7:10 PM	19.8262	11/16/24 5:00 AM	19.5816
11/15/24 9:30 AM	20.2686	11/15/24 7:20 PM	19.8302	11/16/24 5:10 AM	19.575
11/15/24 9:40 AM	20.2623	11/15/24 7:30 PM	19.8337	11/16/24 5:20 AM	19.5694
11/15/24 9:50 AM	20.2587	11/15/24 7:40 PM	19.8325	11/16/24 5:30 AM	19.5575
11/15/24 10:00 AM	20.2514	11/15/24 7:50 PM	19.8387	11/16/24 5:40 AM	19.5482
11/15/24 10:10 AM	20.2445	11/15/24 8:00 PM	19.8467	11/16/24 5:50 AM	19.5416
11/15/24 10:20 AM	20.235	11/15/24 8:10 PM	19.8511	11/16/24 6:00 AM	19.5359
11/15/24 10:30 AM	20.2225	11/15/24 8:20 PM	19.8568	11/16/24 6:10 AM	19.5292
11/15/24 10:40 AM	20.2171	11/15/24 8:30 PM	19.8639	11/16/24 6:20 AM	19.521
11/15/24 10:50 AM	20.2097	11/15/24 8:40 PM	19.8661	11/16/24 6:30 AM	19.5163
11/15/24 11:00 AM	20.203	11/15/24 8:50 PM	19.8699	11/16/24 6:40 AM	19.5145
11/15/24 11:10 AM	20.1923	11/15/24 9:00 PM	19.8721	11/16/24 6:50 AM	19.5096

Observation Well HR-13

Date and Time	Depth to Water
11/16/24 7:00 AM	19.5106
11/16/24 7:10 AM	19.5014
11/16/24 7:20 AM	19.4954
11/16/24 7:30 AM	19.4921
11/16/24 7:40 AM	19.4864
11/16/24 7:50 AM	19.485
11/16/24 8:00 AM	19.4876
11/16/24 8:10 AM	19.4846
11/16/24 8:20 AM	19.4765
11/16/24 8:30 AM	19.4754
11/16/24 8:40 AM	19.473
11/16/24 8:50 AM	19.4742
11/16/24 9:00 AM	19.4727
11/16/24 9:10 AM	19.4681
11/16/24 9:20 AM	19.4703
11/16/24 9:30 AM	19.4657
11/16/24 9:40 AM	19.4648
11/16/24 9:50 AM	19.461
11/16/24 10:00 AM	19.4613
11/16/24 10:40 AM	19.4613
11/16/24 10:50 AM	19.454
11/16/24 11:00 AM	19.453
11/16/24 11:10 AM	19.4534
11/16/24 11:20 AM	19.4486
11/16/24 11:30 AM	19.4414
11/16/24 11:40 AM	19.4366
11/16/24 11:50 AM	19.4307
11/16/24 12:00 PM	19.4261
11/16/24 12:10 PM	19.4214
11/16/24 12:20 PM	19.4136
11/16/24 12:30 PM	19.4021
11/16/24 12:40 PM	19.3951
11/16/24 12:50 PM	19.3897
11/16/24 1:00 PM	19.3777

Date and Time	Depth to Water
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Date and Time	Depth to Water
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Pumping Well All Data

Date and Time	Depth to Water	Date and Time	Depth to Water	Date and Time	Depth to Water
11/11/24 9:49 AM	24.2	11/11/24 3:04 PM	24.23	11/11/24 8:19 PM	24.269
11/11/24 9:54 AM	24.2	11/11/24 3:09 PM	24.233	11/11/24 8:24 PM	24.266
11/11/24 9:59 AM	24.197	11/11/24 3:14 PM	24.233	11/11/24 8:29 PM	24.269
11/11/24 10:04 AM	24.203	11/11/24 3:19 PM	24.233	11/11/24 8:34 PM	24.269
11/11/24 10:09 AM	24.206	11/11/24 3:24 PM	24.233	11/11/24 8:39 PM	24.272
11/11/24 10:14 AM	24.206	11/11/24 3:29 PM	24.233	11/11/24 8:44 PM	24.269
11/11/24 10:19 AM	24.209	11/11/24 3:34 PM	24.233	11/11/24 8:49 PM	24.272
11/11/24 10:24 AM	24.209	11/11/24 3:39 PM	24.236	11/11/24 8:54 PM	24.272
11/11/24 10:29 AM	24.209	11/11/24 3:44 PM	24.236	11/11/24 8:59 PM	24.272
11/11/24 10:34 AM	24.212	11/11/24 3:49 PM	24.239	11/11/24 9:04 PM	24.272
11/11/24 10:39 AM	24.212	11/11/24 3:54 PM	24.239	11/11/24 9:09 PM	24.275
11/11/24 10:44 AM	24.212	11/11/24 3:59 PM	24.239	11/11/24 9:14 PM	24.275
11/11/24 10:49 AM	24.212	11/11/24 4:04 PM	24.239	11/11/24 9:19 PM	24.275
11/11/24 10:54 AM	24.215	11/11/24 4:09 PM	24.239	11/11/24 9:24 PM	24.275
11/11/24 10:59 AM	24.215	11/11/24 4:14 PM	24.242	11/11/24 9:29 PM	24.272
11/11/24 11:04 AM	24.218	11/11/24 4:19 PM	24.242	11/11/24 9:34 PM	24.275
11/11/24 11:09 AM	24.218	11/11/24 4:24 PM	24.242	11/11/24 9:39 PM	24.275
11/11/24 11:14 AM	24.218	11/11/24 4:29 PM	24.242	11/11/24 9:44 PM	24.275
11/11/24 11:19 AM	24.218	11/11/24 4:34 PM	24.242	11/11/24 9:49 PM	24.278
11/11/24 11:24 AM	24.221	11/11/24 4:39 PM	24.242	11/11/24 9:54 PM	24.278
11/11/24 11:29 AM	24.221	11/11/24 4:44 PM	24.242	11/11/24 9:59 PM	24.278
11/11/24 11:34 AM	24.221	11/11/24 4:49 PM	24.242	11/11/24 10:04 PM	24.278
11/11/24 11:39 AM	24.221	11/11/24 4:54 PM	24.245	11/11/24 10:09 PM	24.278
11/11/24 11:44 AM	24.221	11/11/24 4:59 PM	24.245	11/11/24 10:14 PM	24.278
11/11/24 11:49 AM	24.221	11/11/24 5:04 PM	24.245	11/11/24 10:19 PM	24.281
11/11/24 11:54 AM	24.221	11/11/24 5:09 PM	24.245	11/11/24 10:24 PM	24.281
11/11/24 11:59 AM	24.224	11/11/24 5:14 PM	24.245	11/11/24 10:29 PM	24.281
11/11/24 12:04 PM	24.224	11/11/24 5:19 PM	24.245	11/11/24 10:34 PM	24.281
11/11/24 12:09 PM	24.224	11/11/24 5:24 PM	24.245	11/11/24 10:39 PM	24.281
11/11/24 12:14 PM	24.224	11/11/24 5:29 PM	24.245	11/11/24 10:44 PM	24.281
11/11/24 12:19 PM	24.224	11/11/24 5:34 PM	24.245	11/11/24 10:49 PM	24.281
11/11/24 12:24 PM	24.221	11/11/24 5:39 PM	24.245	11/11/24 10:54 PM	24.281
11/11/24 12:29 PM	24.224	11/11/24 5:44 PM	24.248	11/11/24 10:59 PM	24.281
11/11/24 12:34 PM	24.224	11/11/24 5:49 PM	24.248	11/11/24 11:04 PM	24.281
11/11/24 12:39 PM	24.224	11/11/24 5:54 PM	24.248	11/11/24 11:09 PM	24.281
11/11/24 12:44 PM	24.224	11/11/24 5:59 PM	24.248	11/11/24 11:14 PM	24.281
11/11/24 12:49 PM	24.224	11/11/24 6:04 PM	24.248	11/11/24 11:19 PM	24.281
11/11/24 12:54 PM	24.224	11/11/24 6:09 PM	24.251	11/11/24 11:24 PM	24.281
11/11/24 12:59 PM	24.224	11/11/24 6:14 PM	24.251	11/11/24 11:29 PM	24.281
11/11/24 1:04 PM	24.227	11/11/24 6:19 PM	24.251	11/11/24 11:34 PM	24.281
11/11/24 1:09 PM	24.227	11/11/24 6:24 PM	24.251	11/11/24 11:39 PM	24.284
11/11/24 1:14 PM	24.227	11/11/24 6:29 PM	24.251	11/11/24 11:44 PM	24.281
11/11/24 1:19 PM	24.227	11/11/24 6:34 PM	24.254	11/11/24 11:49 PM	24.281
11/11/24 1:24 PM	24.227	11/11/24 6:39 PM	24.254	11/11/24 11:54 PM	24.284
11/11/24 1:29 PM	24.227	11/11/24 6:44 PM	24.254	11/11/24 11:59 PM	24.284
11/11/24 1:34 PM	24.23	11/11/24 6:49 PM	24.254	11/12/24 12:04 AM	24.284
11/11/24 1:39 PM	24.23	11/11/24 6:54 PM	24.257	11/12/24 12:09 AM	24.284
11/11/24 1:44 PM	24.23	11/11/24 6:59 PM	24.257	11/12/24 12:14 AM	24.284
11/11/24 1:49 PM	24.23	11/11/24 7:04 PM	24.257	11/12/24 12:19 AM	24.284
11/11/24 1:54 PM	24.23	11/11/24 7:09 PM	24.257	11/12/24 12:24 AM	24.287
11/11/24 1:59 PM	24.23	11/11/24 7:14 PM	24.257	11/12/24 12:29 AM	24.287
11/11/24 2:04 PM	24.23	11/11/24 7:19 PM	24.26	11/12/24 12:34 AM	24.287
11/11/24 2:09 PM	24.23	11/11/24 7:24 PM	24.26	11/12/24 12:39 AM	24.287
11/11/24 2:14 PM	24.23	11/11/24 7:29 PM	24.263	11/12/24 12:44 AM	24.287
11/11/24 2:19 PM	24.23	11/11/24 7:34 PM	24.263	11/12/24 12:49 AM	24.287
11/11/24 2:24 PM	24.227	11/11/24 7:39 PM	24.263	11/12/24 12:54 AM	24.29
11/11/24 2:29 PM	24.23	11/11/24 7:44 PM	24.263	11/12/24 12:59 AM	24.287
11/11/24 2:34 PM	24.23	11/11/24 7:49 PM	24.263	11/12/24 1:04 AM	24.29
11/11/24 2:39 PM	24.23	11/11/24 7:54 PM	24.266	11/12/24 1:09 AM	24.287
11/11/24 2:44 PM	24.227	11/11/24 7:59 PM	24.266	11/12/24 1:14 AM	24.287
11/11/24 2:49 PM	24.23	11/11/24 8:04 PM	24.263	11/12/24 1:19 AM	24.287
11/11/24 2:54 PM	24.23	11/11/24 8:09 PM	24.266	11/12/24 1:24 AM	24.29
11/11/24 2:59 PM	24.23	11/11/24 8:14 PM	24.266	11/12/24 1:29 AM	24.29

Pumping Well All Data

Date and Time	Depth to Water	Date and Time	Depth to Water	Date and Time	Depth to Water
11/12/24 1:34 AM	24.29	11/12/24 6:49 AM	24.311	11/12/24 2:24 PM	23.801
11/12/24 1:39 AM	24.287	11/12/24 6:54 AM	24.308	11/12/24 2:29 PM	23.789
11/12/24 1:44 AM	24.287	11/12/24 6:59 AM	24.311	11/12/24 2:34 PM	23.795
11/12/24 1:49 AM	24.29	11/12/24 7:04 AM	24.311	11/12/24 2:39 PM	23.792
11/12/24 1:54 AM	24.29	11/12/24 7:09 AM	24.311	11/12/24 2:44 PM	23.78
11/12/24 1:59 AM	24.29	11/12/24 7:14 AM	24.314	11/12/24 2:49 PM	23.78
11/12/24 2:04 AM	24.29	11/12/24 7:19 AM	24.314	11/12/24 2:54 PM	23.774
11/12/24 2:09 AM	24.29	11/12/24 7:24 AM	24.314	11/12/24 2:59 PM	23.786
11/12/24 2:14 AM	24.29	11/12/24 7:29 AM	24.314	11/12/24 3:04 PM	23.777
11/12/24 2:19 AM	24.29	11/12/24 7:34 AM	24.314	11/12/24 3:09 PM	23.78
11/12/24 2:24 AM	24.293	11/12/24 7:39 AM	24.314	11/12/24 3:14 PM	23.771
11/12/24 2:29 AM	24.293	11/12/24 7:44 AM	24.314	11/12/24 3:19 PM	23.771
11/12/24 2:34 AM	24.293	11/12/24 7:49 AM	24.314	11/12/24 3:24 PM	23.765
11/12/24 2:39 AM	24.293	11/12/24 7:54 AM	24.314	11/12/24 3:29 PM	23.774
11/12/24 2:44 AM	24.293	11/12/24 7:59 AM	24.317	11/12/24 3:34 PM	23.765
11/12/24 2:49 AM	24.293	11/12/24 8:04 AM	24.317	11/12/24 3:39 PM	23.768
11/12/24 2:54 AM	24.293	11/12/24 8:09 AM	24.317	11/12/24 3:44 PM	23.753
11/12/24 2:59 AM	24.293	11/12/24 8:14 AM	24.317	11/12/24 3:49 PM	23.765
11/12/24 3:04 AM	24.293	11/12/24 8:19 AM	24.317	11/12/24 3:54 PM	23.753
11/12/24 3:09 AM	24.293	11/12/24 8:24 AM	24.317	11/12/24 3:59 PM	23.759
11/12/24 3:14 AM	24.293	11/12/24 8:29 AM	24.317	11/12/24 4:04 PM	23.753
11/12/24 3:19 AM	24.293	11/12/24 8:34 AM	24.317	11/12/24 4:09 PM	23.756
11/12/24 3:24 AM	24.293	11/12/24 8:39 AM	24.317	11/12/24 4:14 PM	23.747
11/12/24 3:29 AM	24.293	11/12/24 8:44 AM	24.32	11/12/24 4:19 PM	23.756
11/12/24 3:34 AM	24.296	11/12/24 8:49 AM	24.32	11/12/24 4:24 PM	23.747
11/12/24 3:39 AM	24.296	11/12/24 8:54 AM	24.32	11/12/24 4:29 PM	23.75
11/12/24 3:44 AM	24.296	11/12/24 8:59 AM	24.32	11/12/24 4:34 PM	23.753
11/12/24 3:49 AM	24.296	11/12/24 9:04 AM	24.323	11/12/24 4:39 PM	23.753
11/12/24 3:54 AM	24.296	11/12/24 9:09 AM	24.323	11/12/24 4:44 PM	23.744
11/12/24 3:59 AM	24.296	11/12/24 9:14 AM	24.323	11/12/24 4:49 PM	23.738
11/12/24 4:04 AM	24.296	11/12/24 9:19 AM	24.323	11/12/24 4:54 PM	23.744
11/12/24 4:09 AM	24.296	11/12/24 9:24 AM	24.326	11/12/24 4:59 PM	23.735
11/12/24 4:14 AM	24.296	11/12/24 9:29 AM	24.326	11/12/24 5:04 PM	23.726
11/12/24 4:19 AM	24.296	11/12/24 9:34 AM	24.326	11/12/24 5:09 PM	23.729
11/12/24 4:24 AM	24.299	11/12/24 9:39 AM	24.329	11/12/24 5:19 PM	23.723
11/12/24 4:29 AM	24.299	11/12/24 9:44 AM	24.329	11/12/24 5:24 PM	23.729
11/12/24 4:34 AM	24.299	11/12/24 9:49 AM	24.329	11/12/24 5:29 PM	23.729
11/12/24 4:39 AM	24.299	11/12/24 9:54 AM	24.326	11/12/24 5:34 PM	23.72
11/12/24 4:44 AM	24.299	11/12/24 9:59 AM	24.329	11/12/24 5:39 PM	23.729
11/12/24 4:49 AM	24.302	11/12/24 10:04 AM	24.329	11/12/24 5:44 PM	23.723
11/12/24 4:54 AM	24.302	11/12/24 10:09 AM	24.329	11/12/24 5:49 PM	23.723
11/12/24 4:59 AM	24.302	11/12/24 10:14 AM	24.329	11/12/24 5:54 PM	23.714
11/12/24 5:04 AM	24.302	11/12/24 10:19 AM	24.329	11/12/24 5:59 PM	23.723
11/12/24 5:09 AM	24.305	11/12/24 10:24 AM	24.329	11/12/24 6:04 PM	23.717
11/12/24 5:14 AM	24.305	11/12/24 10:29 AM	24.329	11/12/24 6:09 PM	23.723
11/12/24 5:19 AM	24.308	11/12/24 10:34 AM	24.329	11/12/24 6:14 PM	23.72
11/12/24 5:24 AM	24.305	11/12/24 12:59 PM	24.323	11/12/24 6:19 PM	23.717
11/12/24 5:29 AM	24.305	11/12/24 1:04 PM	24.323	11/12/24 6:24 PM	23.711
11/12/24 5:34 AM	24.302	11/12/24 1:09 PM	24.323	11/12/24 6:29 PM	23.714
11/12/24 5:39 AM	24.302	11/12/24 1:14 PM	23.858	11/12/24 6:34 PM	23.717
11/12/24 5:44 AM	24.302	11/12/24 1:19 PM	23.888	11/12/24 6:39 PM	23.714
11/12/24 5:49 AM	24.305	11/12/24 1:24 PM	23.891	11/12/24 6:44 PM	23.702
11/12/24 5:54 AM	24.305	11/12/24 1:29 PM	23.873	11/12/24 6:49 PM	23.699
11/12/24 5:59 AM	24.308	11/12/24 1:34 PM	23.861	11/12/24 6:54 PM	23.711
11/12/24 6:04 AM	24.308	11/12/24 1:39 PM	23.855	11/12/24 6:59 PM	23.705
11/12/24 6:09 AM	24.308	11/12/24 1:44 PM	23.861	11/12/24 7:04 PM	23.708
11/12/24 6:14 AM	24.305	11/12/24 1:49 PM	23.852	11/12/24 7:09 PM	23.702
11/12/24 6:19 AM	24.308	11/12/24 1:54 PM	23.852	11/12/24 7:14 PM	23.699
11/12/24 6:24 AM	24.308	11/12/24 1:59 PM	23.822	11/12/24 7:19 PM	23.699
11/12/24 6:29 AM	24.308	11/12/24 2:04 PM	23.807	11/12/24 7:24 PM	23.708
11/12/24 6:34 AM	24.308	11/12/24 2:09 PM	23.813	11/12/24 7:29 PM	23.693
11/12/24 6:39 AM	24.308	11/12/24 2:14 PM	23.807	11/12/24 7:34 PM	23.702
11/12/24 6:44 AM	24.311	11/12/24 2:19 PM	23.798	11/12/24 7:39 PM	23.702



Date and Time	Depth to Water	Date and Time	Depth to Water	Date and Time	Depth to Water
11/12/24 7:44 PM	23.696	11/13/24 12:59 AM	23.651	11/13/24 6:14 AM	23.576
11/12/24 7:49 PM	23.708	11/13/24 1:04 AM	23.645	11/13/24 6:19 AM	23.567
11/12/24 7:54 PM	23.714	11/13/24 1:09 AM	23.639	11/13/24 6:24 AM	23.57
11/12/24 7:59 PM	23.714	11/13/24 1:14 AM	23.642	11/13/24 6:29 AM	23.573
11/12/24 8:04 PM	23.711	11/13/24 1:19 AM	23.642	11/13/24 6:34 AM	23.561
11/12/24 8:09 PM	23.705	11/13/24 1:24 AM	23.639	11/13/24 6:39 AM	23.567
11/12/24 8:14 PM	23.702	11/13/24 1:29 AM	23.648	11/13/24 6:44 AM	23.561
11/12/24 8:19 PM	23.714	11/13/24 1:34 AM	23.645	11/13/24 6:49 AM	23.567
11/12/24 8:24 PM	23.702	11/13/24 1:39 AM	23.642	11/13/24 6:54 AM	23.561
11/12/24 8:29 PM	23.708	11/13/24 1:44 AM	23.648	11/13/24 6:59 AM	23.57
11/12/24 8:34 PM	23.708	11/13/24 1:49 AM	23.645	11/13/24 7:04 AM	23.561
11/12/24 8:39 PM	23.705	11/13/24 1:54 AM	23.642	11/13/24 7:09 AM	23.564
11/12/24 8:44 PM	23.699	11/13/24 1:59 AM	23.636	11/13/24 7:14 AM	23.555
11/12/24 8:49 PM	23.708	11/13/24 2:04 AM	23.642	11/13/24 7:19 AM	23.558
11/12/24 8:54 PM	23.702	11/13/24 2:09 AM	23.633	11/13/24 7:24 AM	23.558
11/12/24 8:59 PM	23.708	11/13/24 2:14 AM	23.636	11/13/24 7:29 AM	23.567
11/12/24 9:04 PM	23.705	11/13/24 2:19 AM	23.639	11/13/24 7:34 AM	23.558
11/12/24 9:09 PM	23.696	11/13/24 2:24 AM	23.63	11/13/24 7:39 AM	23.561
11/12/24 9:14 PM	23.699	11/13/24 2:29 AM	23.636	11/13/24 7:44 AM	23.552
11/12/24 9:19 PM	23.693	11/13/24 2:34 AM	23.63	11/13/24 7:49 AM	23.558
11/12/24 9:24 PM	23.693	11/13/24 2:39 AM	23.636	11/13/24 7:54 AM	23.561
11/12/24 9:29 PM	23.699	11/13/24 2:44 AM	23.63	11/13/24 7:59 AM	23.558
11/12/24 9:34 PM	23.687	11/13/24 2:49 AM	23.63	11/13/24 8:04 AM	23.555
11/12/24 9:39 PM	23.693	11/13/24 2:54 AM	23.63	11/13/24 8:09 AM	23.549
11/12/24 9:44 PM	23.69	11/13/24 2:59 AM	23.627	11/13/24 8:14 AM	23.552
11/12/24 9:49 PM	23.684	11/13/24 3:04 AM	23.618	11/13/24 8:19 AM	23.552
11/12/24 9:54 PM	23.684	11/13/24 3:09 AM	23.624	11/13/24 8:24 AM	23.558
11/12/24 9:59 PM	23.693	11/13/24 3:14 AM	23.624	11/13/24 8:29 AM	23.549
11/12/24 10:04 PM	23.681	11/13/24 3:19 AM	23.624	11/13/24 8:34 AM	23.552
11/12/24 10:09 PM	23.687	11/13/24 3:24 AM	23.621	11/13/24 8:39 AM	23.555
11/12/24 10:14 PM	23.681	11/13/24 3:29 AM	23.621	11/13/24 8:44 AM	23.552
11/12/24 10:19 PM	23.687	11/13/24 3:34 AM	23.621	11/13/24 8:49 AM	23.549
11/12/24 10:24 PM	23.678	11/13/24 3:39 AM	23.624	11/13/24 8:54 AM	23.558
11/12/24 10:29 PM	23.678	11/13/24 3:44 AM	23.618	11/13/24 8:59 AM	23.555
11/12/24 10:34 PM	23.672	11/13/24 3:49 AM	23.615	11/13/24 9:04 AM	23.555
11/12/24 10:39 PM	23.675	11/13/24 3:54 AM	23.615	11/13/24 9:09 AM	23.546
11/12/24 10:44 PM	23.681	11/13/24 3:59 AM	23.624	11/13/24 9:14 AM	23.552
11/12/24 10:49 PM	23.684	11/13/24 4:04 AM	23.618	11/13/24 9:19 AM	23.534
11/12/24 10:54 PM	23.672	11/13/24 4:09 AM	23.615	11/13/24 9:24 AM	23.528
11/12/24 10:59 PM	23.681	11/13/24 4:14 AM	23.618	11/13/24 9:29 AM	23.522
11/12/24 11:04 PM	23.675	11/13/24 4:19 AM	23.615	11/13/24 9:34 AM	23.522
11/12/24 11:09 PM	23.675	11/13/24 4:24 AM	23.615	11/13/24 9:39 AM	23.51
11/12/24 11:14 PM	23.666	11/13/24 4:29 AM	23.618	11/13/24 9:44 AM	23.519
11/12/24 11:19 PM	23.666	11/13/24 4:34 AM	23.618	11/13/24 9:49 AM	23.519
11/12/24 11:24 PM	23.672	11/13/24 4:39 AM	23.609	11/13/24 9:54 AM	23.519
11/12/24 11:29 PM	23.666	11/13/24 4:44 AM	23.618	11/13/24 9:59 AM	23.522
11/12/24 11:34 PM	23.672	11/13/24 4:49 AM	23.618	11/13/24 10:04 AM	23.519
11/12/24 11:39 PM	23.663	11/13/24 4:54 AM	23.609	11/13/24 10:09 AM	23.522
11/12/24 11:44 PM	23.666	11/13/24 4:59 AM	23.606	11/13/24 10:14 AM	23.516
11/12/24 11:49 PM	23.666	11/13/24 5:04 AM	23.612	11/13/24 10:19 AM	23.519
11/12/24 11:54 PM	23.663	11/13/24 5:09 AM	23.615	11/13/24 10:24 AM	23.513
11/12/24 11:59 PM	23.654	11/13/24 5:14 AM	23.597	11/13/24 10:29 AM	23.51
11/13/24 12:04 AM	23.657	11/13/24 5:19 AM	23.588	11/13/24 10:34 AM	23.516
11/13/24 12:09 AM	23.657	11/13/24 5:24 AM	23.585	11/13/24 10:39 AM	23.516
11/13/24 12:14 AM	23.651	11/13/24 5:29 AM	23.591	11/13/24 10:44 AM	23.51
11/13/24 12:19 AM	23.651	11/13/24 5:34 AM	23.591	11/13/24 10:49 AM	23.504
11/13/24 12:24 AM	23.645	11/13/24 5:39 AM	23.582	11/13/24 10:54 AM	23.513
11/13/24 12:29 AM	23.645	11/13/24 5:44 AM	23.588	11/13/24 10:59 AM	23.51
11/13/24 12:34 AM	23.654	11/13/24 5:49 AM	23.585	11/13/24 11:04 AM	23.51
11/13/24 12:39 AM	23.654	11/13/24 5:54 AM	23.585	11/13/24 11:09 AM	23.504
11/13/24 12:44 AM	23.642	11/13/24 5:59 AM	23.579	11/13/24 11:14 AM	23.507
11/13/24 12:49 AM	23.642	11/13/24 6:04 AM	23.573	11/13/24 11:19 AM	23.507
11/13/24 12:54 AM	23.645	11/13/24 6:09 AM	23.579	11/13/24 11:24 AM	23.507

Date and Time	Depth to Water	Date and Time	Depth to Water	Date and Time	Depth to Water
11/13/24 11:29 AM	23.504	11/13/24 4:44 PM	23.48	11/13/24 9:59 PM	23.474
11/13/24 11:34 AM	23.507	11/13/24 4:49 PM	23.477	11/13/24 10:04 PM	23.471
11/13/24 11:39 AM	23.501	11/13/24 4:54 PM	23.477	11/13/24 10:09 PM	23.471
11/13/24 11:44 AM	23.51	11/13/24 4:59 PM	23.48	11/13/24 10:14 PM	23.471
11/13/24 11:49 AM	23.507	11/13/24 5:04 PM	23.477	11/13/24 10:19 PM	23.468
11/13/24 11:54 AM	23.504	11/13/24 5:09 PM	23.477	11/13/24 10:24 PM	23.462
11/13/24 11:59 AM	23.51	11/13/24 5:14 PM	23.483	11/13/24 10:29 PM	23.465
11/13/24 12:04 PM	23.516	11/13/24 5:19 PM	23.48	11/13/24 10:34 PM	23.465
11/13/24 12:09 PM	23.516	11/13/24 5:24 PM	23.477	11/13/24 10:39 PM	23.459
11/13/24 12:14 PM	23.513	11/13/24 5:29 PM	23.486	11/13/24 10:44 PM	23.459
11/13/24 12:19 PM	23.522	11/13/24 5:34 PM	23.483	11/13/24 10:49 PM	23.462
11/13/24 12:24 PM	23.513	11/13/24 5:39 PM	23.483	11/13/24 10:54 PM	23.462
11/13/24 12:29 PM	23.513	11/13/24 5:44 PM	23.48	11/13/24 10:59 PM	23.459
11/13/24 12:34 PM	23.519	11/13/24 5:49 PM	23.48	11/13/24 11:04 PM	23.459
11/13/24 12:39 PM	23.516	11/13/24 5:54 PM	23.483	11/13/24 11:09 PM	23.459
11/13/24 12:44 PM	23.519	11/13/24 5:59 PM	23.477	11/13/24 11:14 PM	23.459
11/13/24 12:49 PM	23.51	11/13/24 6:04 PM	23.483	11/13/24 11:19 PM	23.459
11/13/24 12:54 PM	23.513	11/13/24 6:09 PM	23.474	11/13/24 11:24 PM	23.465
11/13/24 12:59 PM	23.513	11/13/24 6:14 PM	23.477	11/13/24 11:29 PM	23.465
11/13/24 1:04 PM	23.51	11/13/24 6:19 PM	23.483	11/13/24 11:34 PM	23.462
11/13/24 1:09 PM	23.516	11/13/24 6:24 PM	23.477	11/13/24 11:39 PM	23.462
11/13/24 1:14 PM	23.513	11/13/24 6:29 PM	23.477	11/13/24 11:44 PM	23.456
11/13/24 1:19 PM	23.513	11/13/24 6:34 PM	23.48	11/13/24 11:49 PM	23.462
11/13/24 1:24 PM	23.513	11/13/24 6:39 PM	23.48	11/13/24 11:54 PM	23.459
11/13/24 1:29 PM	23.507	11/13/24 6:44 PM	23.474	11/13/24 11:59 PM	23.462
11/13/24 1:34 PM	23.513	11/13/24 6:49 PM	23.471	11/14/24 12:04 AM	23.456
11/13/24 1:39 PM	23.504	11/13/24 6:54 PM	23.471	11/14/24 12:09 AM	23.456
11/13/24 1:44 PM	23.513	11/13/24 6:59 PM	23.477	11/14/24 12:14 AM	23.459
11/13/24 1:49 PM	23.513	11/13/24 7:04 PM	23.48	11/14/24 12:19 AM	23.465
11/13/24 1:54 PM	23.507	11/13/24 7:09 PM	23.474	11/14/24 12:24 AM	23.462
11/13/24 1:59 PM	23.507	11/13/24 7:14 PM	23.471	11/14/24 12:29 AM	23.462
11/13/24 2:04 PM	23.507	11/13/24 7:19 PM	23.474	11/14/24 12:34 AM	23.462
11/13/24 2:09 PM	23.513	11/13/24 7:24 PM	23.471	11/14/24 12:39 AM	23.453
11/13/24 2:14 PM	23.513	11/13/24 7:29 PM	23.468	11/14/24 12:44 AM	23.456
11/13/24 2:19 PM	23.507	11/13/24 7:34 PM	23.468	11/14/24 12:49 AM	23.453
11/13/24 2:24 PM	23.498	11/13/24 7:39 PM	23.477	11/14/24 12:54 AM	23.459
11/13/24 2:29 PM	23.48	11/13/24 7:44 PM	23.474	11/14/24 12:59 AM	23.453
11/13/24 2:34 PM	23.492	11/13/24 7:49 PM	23.474	11/14/24 1:04 AM	23.453
11/13/24 2:39 PM	23.48	11/13/24 7:54 PM	23.471	11/14/24 1:09 AM	23.456
11/13/24 2:44 PM	23.492	11/13/24 7:59 PM	23.471	11/14/24 1:14 AM	23.453
11/13/24 2:49 PM	23.486	11/13/24 8:04 PM	23.474	11/14/24 1:19 AM	23.456
11/13/24 2:54 PM	23.486	11/13/24 8:09 PM	23.474	11/14/24 1:24 AM	23.447
11/13/24 2:59 PM	23.486	11/13/24 8:14 PM	23.471	11/14/24 1:29 AM	23.453
11/13/24 3:04 PM	23.483	11/13/24 8:19 PM	23.474	11/14/24 1:34 AM	23.453
11/13/24 3:09 PM	23.48	11/13/24 8:24 PM	23.477	11/14/24 1:39 AM	23.444
11/13/24 3:14 PM	23.486	11/13/24 8:29 PM	23.474	11/14/24 1:44 AM	23.45
11/13/24 3:19 PM	23.483	11/13/24 8:34 PM	23.477	11/14/24 1:49 AM	23.45
11/13/24 3:24 PM	23.48	11/13/24 8:39 PM	23.474	11/14/24 1:54 AM	23.447
11/13/24 3:29 PM	23.486	11/13/24 8:44 PM	23.471	11/14/24 1:59 AM	23.441
11/13/24 3:34 PM	23.483	11/13/24 8:49 PM	23.474	11/14/24 2:04 AM	23.45
11/13/24 3:39 PM	23.483	11/13/24 8:54 PM	23.468	11/14/24 2:09 AM	23.447
11/13/24 3:44 PM	23.489	11/13/24 8:59 PM	23.468	11/14/24 2:14 AM	23.444
11/13/24 3:49 PM	23.486	11/13/24 9:04 PM	23.471	11/14/24 2:19 AM	23.438
11/13/24 3:54 PM	23.48	11/13/24 9:09 PM	23.468	11/14/24 2:24 AM	23.444
11/13/24 3:59 PM	23.48	11/13/24 9:14 PM	23.471	11/14/24 2:29 AM	23.447
11/13/24 4:04 PM	23.48	11/13/24 9:19 PM	23.465	11/14/24 2:34 AM	23.444
11/13/24 4:09 PM	23.48	11/13/24 9:24 PM	23.468	11/14/24 2:39 AM	23.435
11/13/24 4:14 PM	23.477	11/13/24 9:29 PM	23.474	11/14/24 2:44 AM	23.441
11/13/24 4:19 PM	23.477	11/13/24 9:34 PM	23.468	11/14/24 2:49 AM	23.441
11/13/24 4:24 PM	23.483	11/13/24 9:39 PM	23.474	11/14/24 2:54 AM	23.441
11/13/24 4:29 PM	23.48	11/13/24 9:44 PM	23.468	11/14/24 2:59 AM	23.444
11/13/24 4:34 PM	23.477	11/13/24 9:49 PM	23.468	11/14/24 3:04 AM	23.438
11/13/24 4:39 PM	23.471	11/13/24 9:54 PM	23.465	11/14/24 3:09 AM	23.438

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Date and Time	Depth to Water	Date and Time	Depth to Water	Date and Time	Depth to Water
11/14/24 3:14 AM	23.432	11/14/24 8:29 AM	23.417	11/14/24 1:44 PM	23.381
11/14/24 3:19 AM	23.438	11/14/24 8:34 AM	23.414	11/14/24 1:49 PM	23.381
11/14/24 3:24 AM	23.438	11/14/24 8:39 AM	23.42	11/14/24 1:54 PM	23.381
11/14/24 3:29 AM	23.438	11/14/24 8:44 AM	23.414	11/14/24 1:59 PM	23.375
11/14/24 3:34 AM	23.438	11/14/24 8:49 AM	23.417	11/14/24 2:04 PM	23.375
11/14/24 3:39 AM	23.432	11/14/24 8:54 AM	23.42	11/14/24 2:09 PM	23.372
11/14/24 3:44 AM	23.429	11/14/24 8:59 AM	23.42	11/14/24 2:14 PM	23.375
11/14/24 3:49 AM	23.429	11/14/24 9:04 AM	23.42	11/14/24 2:19 PM	23.375
11/14/24 3:54 AM	23.429	11/14/24 9:09 AM	23.414	11/14/24 2:24 PM	23.372
11/14/24 3:59 AM	23.438	11/14/24 9:14 AM	23.417	11/14/24 2:29 PM	23.372
11/14/24 4:04 AM	23.435	11/14/24 9:19 AM	23.414	11/14/24 2:34 PM	23.375
11/14/24 4:09 AM	23.432	11/14/24 9:24 AM	23.411	11/14/24 2:39 PM	23.372
11/14/24 4:14 AM	23.426	11/14/24 9:29 AM	23.417	11/14/24 2:44 PM	23.372
11/14/24 4:19 AM	23.429	11/14/24 9:34 AM	23.411	11/14/24 2:49 PM	23.366
11/14/24 4:24 AM	23.429	11/14/24 9:39 AM	23.411	11/14/24 2:54 PM	23.369
11/14/24 4:29 AM	23.432	11/14/24 9:44 AM	23.42	11/14/24 2:59 PM	23.366
11/14/24 4:34 AM	23.426	11/14/24 9:49 AM	23.417	11/14/24 3:04 PM	23.366
11/14/24 4:39 AM	23.429	11/14/24 9:54 AM	23.414	11/14/24 3:09 PM	23.363
11/14/24 4:44 AM	23.423	11/14/24 9:59 AM	23.414	11/14/24 3:14 PM	23.363
11/14/24 4:49 AM	23.426	11/14/24 10:04 AM	23.414	11/14/24 3:19 PM	23.363
11/14/24 4:54 AM	23.432	11/14/24 10:09 AM	23.411	11/14/24 3:24 PM	23.366
11/14/24 4:59 AM	23.429	11/14/24 10:14 AM	23.414	11/14/24 3:29 PM	23.363
11/14/24 5:04 AM	23.432	11/14/24 10:19 AM	23.408	11/14/24 3:34 PM	23.363
11/14/24 5:09 AM	23.423	11/14/24 10:24 AM	23.408	11/14/24 3:39 PM	23.363
11/14/24 5:14 AM	23.429	11/14/24 10:29 AM	23.414	11/14/24 3:44 PM	23.357
11/14/24 5:19 AM	23.423	11/14/24 10:34 AM	23.408	11/14/24 3:49 PM	23.363
11/14/24 5:24 AM	23.426	11/14/24 10:39 AM	23.417	11/14/24 3:54 PM	23.363
11/14/24 5:29 AM	23.426	11/14/24 10:44 AM	23.408	11/14/24 3:59 PM	23.36
11/14/24 5:34 AM	23.423	11/14/24 10:49 AM	23.405	11/14/24 4:04 PM	23.366
11/14/24 5:39 AM	23.423	11/14/24 10:54 AM	23.408	11/14/24 4:09 PM	23.36
11/14/24 5:44 AM	23.423	11/14/24 10:59 AM	23.408	11/14/24 4:14 PM	23.363
11/14/24 5:49 AM	23.423	11/14/24 11:04 AM	23.405	11/14/24 4:19 PM	23.36
11/14/24 5:54 AM	23.426	11/14/24 11:09 AM	23.405	11/14/24 4:24 PM	23.354
11/14/24 5:59 AM	23.429	11/14/24 11:14 AM	23.402	11/14/24 4:29 PM	23.363
11/14/24 6:04 AM	23.423	11/14/24 11:19 AM	23.405	11/14/24 4:34 PM	23.36
11/14/24 6:09 AM	23.426	11/14/24 11:24 AM	23.408	11/14/24 4:39 PM	23.36
11/14/24 6:14 AM	23.42	11/14/24 11:29 AM	23.408	11/14/24 4:44 PM	23.357
11/14/24 6:19 AM	23.426	11/14/24 11:34 AM	23.399	11/14/24 4:49 PM	23.354
11/14/24 6:24 AM	23.42	11/14/24 11:39 AM	23.399	11/14/24 4:54 PM	23.357
11/14/24 6:29 AM	23.423	11/14/24 11:44 AM	23.399	11/14/24 4:59 PM	23.354
11/14/24 6:34 AM	23.423	11/14/24 11:49 AM	23.396	11/14/24 5:04 PM	23.354
11/14/24 6:39 AM	23.42	11/14/24 11:54 AM	23.399	11/14/24 5:09 PM	23.357
11/14/24 6:44 AM	23.423	11/14/24 11:59 AM	23.399	11/14/24 5:14 PM	23.357
11/14/24 6:49 AM	23.423	11/14/24 12:04 PM	23.393	11/14/24 5:19 PM	23.354
11/14/24 6:54 AM	23.414	11/14/24 12:09 PM	23.396	11/14/24 5:24 PM	23.357
11/14/24 6:59 AM	23.423	11/14/24 12:14 PM	23.39	11/14/24 5:29 PM	23.357
11/14/24 7:04 AM	23.414	11/14/24 12:19 PM	23.393	11/14/24 5:34 PM	23.351
11/14/24 7:09 AM	23.423	11/14/24 12:24 PM	23.396	11/14/24 5:39 PM	23.36
11/14/24 7:14 AM	23.42	11/14/24 12:29 PM	23.39	11/14/24 5:44 PM	23.357
11/14/24 7:19 AM	23.414	11/14/24 12:34 PM	23.393	11/14/24 5:49 PM	23.357
11/14/24 7:24 AM	23.42	11/14/24 12:39 PM	23.387	11/14/24 5:54 PM	23.357
11/14/24 7:29 AM	23.42	11/14/24 12:44 PM	23.39	11/14/24 5:59 PM	23.351
11/14/24 7:34 AM	23.414	11/14/24 12:49 PM	23.384	11/14/24 6:04 PM	23.351
11/14/24 7:39 AM	23.423	11/14/24 12:54 PM	23.39	11/14/24 6:09 PM	23.354
11/14/24 7:44 AM	23.423	11/14/24 12:59 PM	23.387	11/14/24 6:14 PM	23.354
11/14/24 7:49 AM	23.42	11/14/24 1:04 PM	23.387	11/14/24 6:19 PM	23.348
11/14/24 7:54 AM	23.423	11/14/24 1:09 PM	23.387	11/14/24 6:24 PM	23.348
11/14/24 7:59 AM	23.423	11/14/24 1:14 PM	23.384	11/14/24 6:29 PM	23.348
11/14/24 8:04 AM	23.417	11/14/24 1:19 PM	23.39	11/14/24 6:34 PM	23.348
11/14/24 8:09 AM	23.417	11/14/24 1:24 PM	23.384	11/14/24 6:39 PM	23.351
11/14/24 8:14 AM	23.42	11/14/24 1:29 PM	23.381	11/14/24 6:44 PM	23.348
11/14/24 8:19 AM	23.42	11/14/24 1:34 PM	23.375	11/14/24 6:49 PM	23.348
11/14/24 8:24 AM	23.417	11/14/24 1:39 PM	23.378	11/14/24 6:54 PM	23.354

Pumping Well All Data

Date and Time	Depth to Water	Date and Time	Depth to Water	Date and Time	Depth to Water
11/14/24 6:59 PM	23.345	11/15/24 12:14 AM	23.324	11/15/24 5:29 AM	23.309
11/14/24 7:04 PM	23.345	11/15/24 12:19 AM	23.318	11/15/24 5:34 AM	23.303
11/14/24 7:09 PM	23.345	11/15/24 12:24 AM	23.318	11/15/24 5:39 AM	23.306
11/14/24 7:14 PM	23.348	11/15/24 12:29 AM	23.324	11/15/24 5:44 AM	23.303
11/14/24 7:19 PM	23.348	11/15/24 12:34 AM	23.318	11/15/24 5:49 AM	23.309
11/14/24 7:24 PM	23.348	11/15/24 12:39 AM	23.321	11/15/24 5:54 AM	23.306
11/14/24 7:29 PM	23.345	11/15/24 12:44 AM	23.321	11/15/24 5:59 AM	23.3
11/14/24 7:34 PM	23.345	11/15/24 12:49 AM	23.321	11/15/24 6:04 AM	23.306
11/14/24 7:39 PM	23.348	11/15/24 12:54 AM	23.318	11/15/24 6:09 AM	23.306
11/14/24 7:44 PM	23.339	11/15/24 12:59 AM	23.321	11/15/24 6:14 AM	23.306
11/14/24 7:49 PM	23.342	11/15/24 1:04 AM	23.318	11/15/24 6:19 AM	23.3
11/14/24 7:54 PM	23.342	11/15/24 1:09 AM	23.318	11/15/24 6:24 AM	23.309
11/14/24 7:59 PM	23.339	11/15/24 1:14 AM	23.318	11/15/24 6:29 AM	23.306
11/14/24 8:04 PM	23.336	11/15/24 1:19 AM	23.321	11/15/24 6:34 AM	23.306
11/14/24 8:09 PM	23.342	11/15/24 1:24 AM	23.315	11/15/24 6:39 AM	23.303
11/14/24 8:14 PM	23.339	11/15/24 1:29 AM	23.318	11/15/24 6:44 AM	23.303
11/14/24 8:19 PM	23.342	11/15/24 1:34 AM	23.315	11/15/24 6:49 AM	23.306
11/14/24 8:24 PM	23.342	11/15/24 1:39 AM	23.312	11/15/24 6:54 AM	23.303
11/14/24 8:29 PM	23.336	11/15/24 1:44 AM	23.321	11/15/24 6:59 AM	23.306
11/14/24 8:34 PM	23.336	11/15/24 1:49 AM	23.318	11/15/24 7:04 AM	23.309
11/14/24 8:39 PM	23.336	11/15/24 1:54 AM	23.315	11/15/24 7:09 AM	23.303
11/14/24 8:44 PM	23.342	11/15/24 1:59 AM	23.315	11/15/24 7:14 AM	23.306
11/14/24 8:49 PM	23.342	11/15/24 2:04 AM	23.312	11/15/24 7:19 AM	23.306
11/14/24 8:54 PM	23.336	11/15/24 2:09 AM	23.318	11/15/24 7:24 AM	23.303
11/14/24 8:59 PM	23.336	11/15/24 2:14 AM	23.318	11/15/24 7:29 AM	23.303
11/14/24 9:04 PM	23.336	11/15/24 2:19 AM	23.312	11/15/24 7:34 AM	23.303
11/14/24 9:09 PM	23.336	11/15/24 2:24 AM	23.312	11/15/24 7:39 AM	23.306
11/14/24 9:14 PM	23.333	11/15/24 2:29 AM	23.312	11/15/24 7:44 AM	23.306
11/14/24 9:19 PM	23.336	11/15/24 2:34 AM	23.315	11/15/24 7:49 AM	23.306
11/14/24 9:24 PM	23.333	11/15/24 2:39 AM	23.315	11/15/24 7:54 AM	23.309
11/14/24 9:29 PM	23.339	11/15/24 2:44 AM	23.309	11/15/24 7:59 AM	23.303
11/14/24 9:34 PM	23.339	11/15/24 2:49 AM	23.315	11/15/24 8:04 AM	23.306
11/14/24 9:39 PM	23.333	11/15/24 2:54 AM	23.309	11/15/24 8:09 AM	23.312
11/14/24 9:44 PM	23.333	11/15/24 2:59 AM	23.312	11/15/24 8:14 AM	23.309
11/14/24 9:49 PM	23.333	11/15/24 3:04 AM	23.309	11/15/24 8:19 AM	23.303
11/14/24 9:54 PM	23.333	11/15/24 3:09 AM	23.309	11/15/24 8:24 AM	23.309
11/14/24 9:59 PM	23.333	11/15/24 3:14 AM	23.312	11/15/24 8:29 AM	23.312
11/14/24 10:04 PM	23.336	11/15/24 3:19 AM	23.312	11/15/24 8:34 AM	23.309
11/14/24 10:09 PM	23.336	11/15/24 3:24 AM	23.309	11/15/24 8:39 AM	23.309
11/14/24 10:14 PM	23.333	11/15/24 3:29 AM	23.303	11/15/24 8:44 AM	23.312
11/14/24 10:19 PM	23.333	11/15/24 3:34 AM	23.312	11/15/24 8:49 AM	23.309
11/14/24 10:24 PM	23.333	11/15/24 3:39 AM	23.309	11/15/24 8:54 AM	23.312
11/14/24 10:29 PM	23.333	11/15/24 3:44 AM	23.306	11/15/24 8:59 AM	23.306
11/14/24 10:34 PM	23.327	11/15/24 3:49 AM	23.306	11/15/24 9:04 AM	23.309
11/14/24 10:39 PM	23.327	11/15/24 3:54 AM	23.309	11/15/24 9:09 AM	23.312
11/14/24 10:44 PM	23.327	11/15/24 3:59 AM	23.306	11/15/24 9:14 AM	23.309
11/14/24 10:49 PM	23.327	11/15/24 4:04 AM	23.309	11/15/24 9:19 AM	23.306
11/14/24 10:54 PM	23.321	11/15/24 4:09 AM	23.309	11/15/24 9:24 AM	23.309
11/14/24 10:59 PM	23.324	11/15/24 4:14 AM	23.309	11/15/24 9:29 AM	23.315
11/14/24 11:04 PM	23.324	11/15/24 4:19 AM	23.315	11/15/24 9:34 AM	23.309
11/14/24 11:09 PM	23.327	11/15/24 4:24 AM	23.309	11/15/24 9:39 AM	23.306
11/14/24 11:14 PM	23.333	11/15/24 4:29 AM	23.309	11/15/24 9:44 AM	23.309
11/14/24 11:19 PM	23.333	11/15/24 4:34 AM	23.303	11/15/24 9:49 AM	23.312
11/14/24 11:24 PM	23.327	11/15/24 4:39 AM	23.309	11/15/24 9:54 AM	23.312
11/14/24 11:29 PM	23.318	11/15/24 4:44 AM	23.309	11/15/24 9:59 AM	23.312
11/14/24 11:34 PM	23.324	11/15/24 4:49 AM	23.306	11/15/24 10:04 AM	23.309
11/14/24 11:39 PM	23.321	11/15/24 4:54 AM	23.309	11/15/24 10:09 AM	23.309
11/14/24 11:44 PM	23.324	11/15/24 4:59 AM	23.306	11/15/24 10:14 AM	23.309
11/14/24 11:49 PM	23.321	11/15/24 5:04 AM	23.309	11/15/24 10:19 AM	23.312
11/14/24 11:54 PM	23.318	11/15/24 5:09 AM	23.309	11/15/24 10:24 AM	23.315
11/14/24 11:59 PM	23.318	11/15/24 5:14 AM	23.309	11/15/24 10:29 AM	23.312
11/15/24 12:04 AM	23.321	11/15/24 5:19 AM	23.312	11/15/24 10:34 AM	23.315
11/15/24 12:09 AM	23.321	11/15/24 5:24 AM	23.309	11/15/24 10:39 AM	23.309

Pumping Well All Data

Date and Time	Depth to Water	Date and Time	Depth to Water	Date and Time	Depth to Water
11/15/24 10:44 AM	23.312	11/15/24 3:59 PM	23.906	11/15/24 9:14 PM	24.038
11/15/24 10:49 AM	23.312	11/15/24 4:04 PM	23.909	11/15/24 9:19 PM	24.038
11/15/24 10:54 AM	23.312	11/15/24 4:09 PM	23.909	11/15/24 9:24 PM	24.038
11/15/24 10:59 AM	23.309	11/15/24 4:14 PM	23.915	11/15/24 9:29 PM	24.038
11/15/24 11:04 AM	23.312	11/15/24 4:19 PM	23.936	11/15/24 9:34 PM	24.041
11/15/24 11:09 AM	23.312	11/15/24 4:24 PM	23.939	11/15/24 9:39 PM	24.041
11/15/24 11:14 AM	23.306	11/15/24 4:29 PM	23.942	11/15/24 9:44 PM	24.041
11/15/24 11:19 AM	23.312	11/15/24 4:34 PM	23.945	11/15/24 9:49 PM	24.041
11/15/24 11:24 AM	23.306	11/15/24 4:39 PM	23.945	11/15/24 9:54 PM	24.044
11/15/24 11:29 AM	23.309	11/15/24 4:44 PM	23.948	11/15/24 9:59 PM	24.044
11/15/24 11:34 AM	23.306	11/15/24 4:49 PM	23.951	11/15/24 10:04 PM	24.047
11/15/24 11:39 AM	23.309	11/15/24 4:54 PM	23.954	11/15/24 10:09 PM	24.047
11/15/24 11:44 AM	23.303	11/15/24 4:59 PM	23.957	11/15/24 10:14 PM	24.047
11/15/24 11:49 AM	23.306	11/15/24 5:04 PM	23.957	11/15/24 10:19 PM	24.047
11/15/24 11:54 AM	23.3	11/15/24 5:09 PM	23.96	11/15/24 10:24 PM	24.05
11/15/24 11:59 AM	23.303	11/15/24 5:14 PM	23.963	11/15/24 10:29 PM	24.05
11/15/24 12:04 PM	23.306	11/15/24 5:19 PM	23.966	11/15/24 10:34 PM	24.05
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11/15/24 12:29 PM	23.306	11/15/24 5:44 PM	23.972	11/15/24 10:59 PM	24.056
11/15/24 12:34 PM	23.303	11/15/24 5:49 PM	23.975	11/15/24 11:04 PM	24.056
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11/15/24 12:44 PM	23.3	11/15/24 5:59 PM	23.978	11/15/24 11:14 PM	24.059
11/15/24 12:49 PM	23.297	11/15/24 6:04 PM	23.981	11/15/24 11:19 PM	24.059
11/15/24 12:54 PM	23.3	11/15/24 6:09 PM	23.981	11/15/24 11:24 PM	24.062
11/15/24 12:59 PM	23.3	11/15/24 6:14 PM	23.984	11/15/24 11:29 PM	24.062
11/15/24 1:04 PM	23.297	11/15/24 6:19 PM	23.987	11/15/24 11:34 PM	24.062
11/15/24 1:09 PM	23.3	11/15/24 6:24 PM	23.99	11/15/24 11:39 PM	24.065
11/15/24 1:14 PM	23.3	11/15/24 6:29 PM	23.99	11/15/24 11:44 PM	24.065
11/15/24 1:19 PM	23.702	11/15/24 6:34 PM	23.993	11/15/24 11:49 PM	24.065
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11/15/24 1:29 PM	23.759	11/15/24 6:44 PM	23.999	11/15/24 11:59 PM	24.068
11/15/24 1:34 PM	23.771	11/15/24 6:49 PM	23.999	11/16/24 12:04 AM	24.068
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11/15/24 1:49 PM	23.801	11/15/24 7:04 PM	24.002	11/16/24 12:19 AM	24.068
11/15/24 1:54 PM	23.81	11/15/24 7:09 PM	24.005	11/16/24 12:24 AM	24.068
11/15/24 1:59 PM	23.816	11/15/24 7:14 PM	24.005	11/16/24 12:29 AM	24.071
11/15/24 2:04 PM	23.822	11/15/24 7:19 PM	24.008	11/16/24 12:34 AM	24.071
11/15/24 2:09 PM	23.828	11/15/24 7:24 PM	24.008	11/16/24 12:39 AM	24.071
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11/15/24 2:19 PM	23.84	11/15/24 7:34 PM	24.011	11/16/24 12:49 AM	24.071
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11/15/24 2:34 PM	23.852	11/15/24 7:49 PM	24.017	11/16/24 1:04 AM	24.074
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11/15/24 2:44 PM	23.858	11/15/24 7:59 PM	24.02	11/16/24 1:14 AM	24.077
11/15/24 2:49 PM	23.864	11/15/24 8:04 PM	24.02	11/16/24 1:19 AM	24.077
11/15/24 2:54 PM	23.867	11/15/24 8:09 PM	24.02	11/16/24 1:24 AM	24.08
11/15/24 2:59 PM	23.873	11/15/24 8:14 PM	24.023	11/16/24 1:29 AM	24.08
11/15/24 3:04 PM	23.876	11/15/24 8:19 PM	24.023	11/16/24 1:34 AM	24.08
11/15/24 3:09 PM	23.876	11/15/24 8:24 PM	24.023	11/16/24 1:39 AM	24.08
11/15/24 3:14 PM	23.879	11/15/24 8:29 PM	24.026	11/16/24 1:44 AM	24.083
11/15/24 3:19 PM	23.885	11/15/24 8:34 PM	24.026	11/16/24 1:49 AM	24.083
11/15/24 3:24 PM	23.888	11/15/24 8:39 PM	24.029	11/16/24 1:54 AM	24.083
11/15/24 3:29 PM	23.891	11/15/24 8:44 PM	24.029	11/16/24 1:59 AM	24.083
11/15/24 3:34 PM	23.894	11/15/24 8:49 PM	24.032	11/16/24 2:04 AM	24.086
11/15/24 3:39 PM	23.897	11/15/24 8:54 PM	24.032	11/16/24 2:09 AM	24.086
11/15/24 3:44 PM	23.9	11/15/24 8:59 PM	24.035	11/16/24 2:14 AM	24.083
11/15/24 3:49 PM	23.903	11/15/24 9:04 PM	24.035	11/16/24 2:19 AM	24.083
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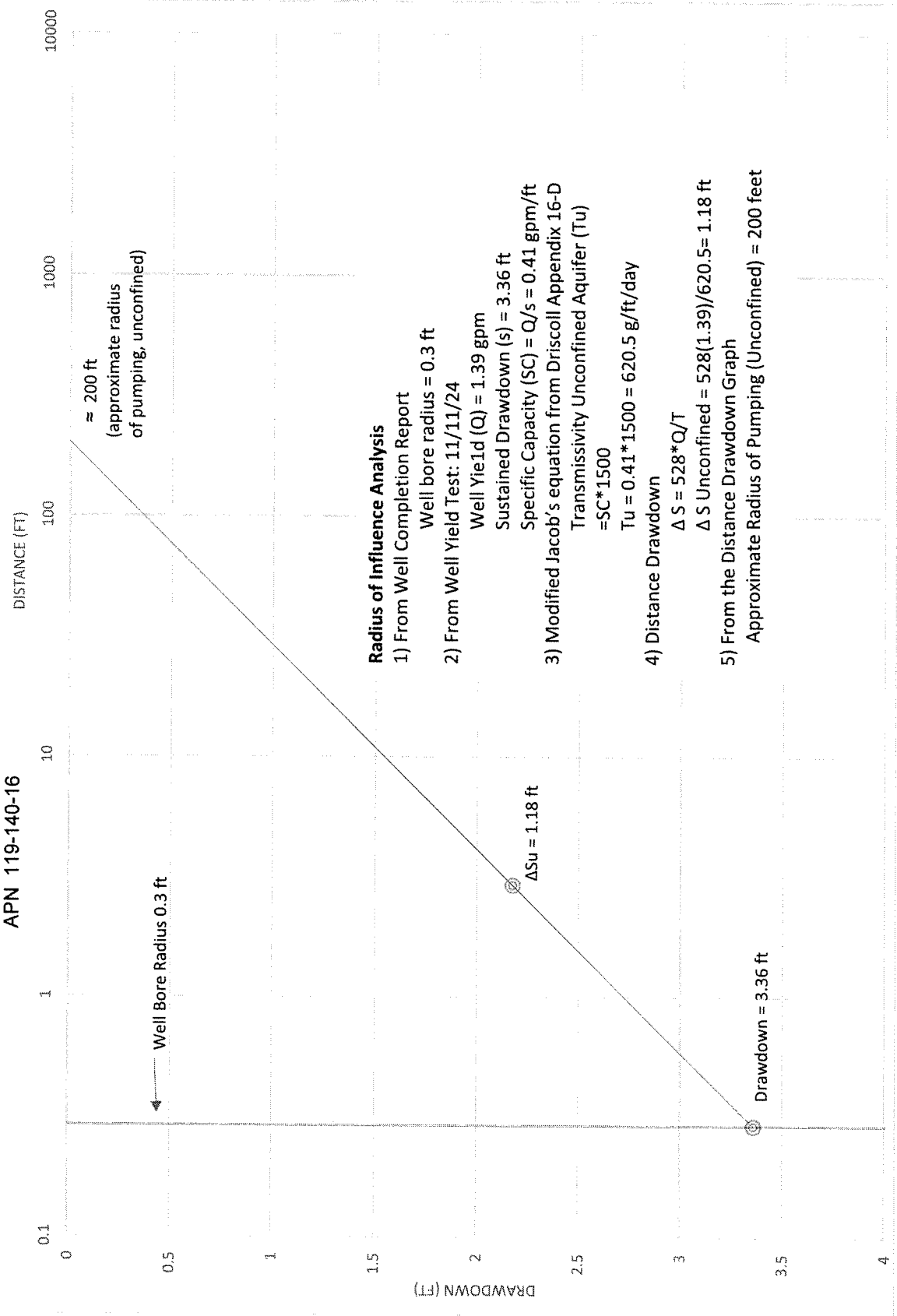
Pumping Well All Data

Date and Time	Depth to Water	Date and Time	Depth to Water	Date and Time	Depth to Water
11/16/24 2:29 AM	24.086	11/16/24 7:44 AM	24.134		
11/16/24 2:34 AM	24.086	11/16/24 7:49 AM	24.134		
11/16/24 2:39 AM	24.089	11/16/24 7:54 AM	24.134		
11/16/24 2:44 AM	24.089	11/16/24 7:59 AM	24.134		
11/16/24 2:49 AM	24.089	11/16/24 8:04 AM	24.134		
11/16/24 2:54 AM	24.089	11/16/24 8:09 AM	24.137		
11/16/24 2:59 AM	24.092	11/16/24 8:14 AM	24.14		
11/16/24 3:04 AM	24.092	11/16/24 8:19 AM	24.14		
11/16/24 3:09 AM	24.092	11/16/24 8:24 AM	24.14		
11/16/24 3:14 AM	24.092	11/16/24 8:29 AM	24.143		
11/16/24 3:19 AM	24.092	11/16/24 8:34 AM	24.143		
11/16/24 3:24 AM	24.092	11/16/24 8:39 AM	24.143		
11/16/24 3:29 AM	24.095	11/16/24 8:44 AM	24.143		
11/16/24 3:34 AM	24.095	11/16/24 8:49 AM	24.143		
11/16/24 3:39 AM	24.095	11/16/24 8:54 AM	24.146		
11/16/24 3:44 AM	24.095	11/16/24 8:59 AM	24.146		
11/16/24 3:49 AM	24.095	11/16/24 9:04 AM	24.146		
11/16/24 3:54 AM	24.095	11/16/24 9:09 AM	24.146		
11/16/24 3:59 AM	24.098	11/16/24 9:14 AM	24.146		
11/16/24 4:04 AM	24.098	11/16/24 9:19 AM	24.146		
11/16/24 4:09 AM	24.098	11/16/24 9:24 AM	24.149		
11/16/24 4:14 AM	24.101	11/16/24 9:29 AM	24.149		
11/16/24 4:19 AM	24.101	11/16/24 9:34 AM	24.149		
11/16/24 4:24 AM	24.101	11/16/24 9:39 AM	24.149		
11/16/24 4:29 AM	24.104	11/16/24 9:44 AM	24.152		
11/16/24 4:34 AM	24.104	11/16/24 9:49 AM	24.152		
11/16/24 4:39 AM	24.104	11/16/24 9:54 AM	24.152		
11/16/24 4:44 AM	24.104	11/16/24 9:59 AM	24.152		
11/16/24 4:49 AM	24.104	11/16/24 10:04 AM	24.152		
11/16/24 4:54 AM	24.104	11/16/24 10:09 AM	24.152		
11/16/24 4:59 AM	24.107	11/16/24 10:14 AM	24.155		
11/16/24 5:04 AM	24.107	11/16/24 10:19 AM	24.155		
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11/16/24 5:14 AM	24.107	11/16/24 10:29 AM	24.155		
11/16/24 5:19 AM	24.107	11/16/24 10:34 AM	24.155		
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11/16/24 5:39 AM	24.113	11/16/24 10:54 AM	24.158		
11/16/24 5:44 AM	24.113	11/16/24 10:59 AM	24.158		
11/16/24 5:49 AM	24.116	11/16/24 11:04 AM	24.158		
11/16/24 5:54 AM	24.116	11/16/24 11:09 AM	24.155		
11/16/24 5:59 AM	24.116	11/16/24 11:14 AM	24.155		
11/16/24 6:04 AM	24.116	11/16/24 11:19 AM	24.155		
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11/16/24 6:59 AM	24.125	11/16/24 12:14 PM	24.155		
11/16/24 7:04 AM	24.125	11/16/24 12:19 PM	24.155		
11/16/24 7:09 AM	24.128	11/16/24 12:24 PM	24.155		
11/16/24 7:14 AM	24.128	11/16/24 12:29 PM	24.203		
11/16/24 7:19 AM	24.131	11/16/24 12:34 PM	24.197		
11/16/24 7:24 AM	24.131				
11/16/24 7:29 AM	24.131				
11/16/24 7:34 AM	24.134				
11/16/24 7:39 AM	24.134				

**APPENDIX E**  
**RADIUS OF PUMPING INFLUENCE GRAPH**

# Radius of Pumping Influence

44780 Little Lake Road  
Mendocino, CA  
APN 119-140-16



## Radius of Influence Analysis

- 1) From Well Completion Report  
Well bore radius = 0.3 ft
- 2) From Well Yield Test: 11/11/24  
Well Yield (Q) = 1.39 gpm  
Sustained Drawdown (s) = 3.36 ft  
Specific Capacity (SC) =  $Q/s = 0.41$  gpm/ft
- 3) Modified Jacob's equation from Driscoll Appendix 16-D  
Transmissivity Unconfined Aquifer (Tu) =  $SC * 1500$   
 $Tu = 0.41 * 1500 = 620.5$  g/ft/day  
 $\Delta S = 528 * Q/T$   
 $\Delta S$  Unconfined =  $528(1.39)/620.5 = 1.18$  ft
- 4) Distance Drawdown  
Approximate Radius of Pumping (Unconfined) = 200 feet
- 5) From the Distance Drawdown Graph



received  
10/15/24

**MENDOCINO CITY COMMUNITY SERVICES DISTRICT  
APPLICATION FOR GROUNDWATER EXTRACTION PERMIT**

**Fees:** Administrative \_\_\_\_\_ \$200.00  
Board Approval \_\_\_\_\_ \$300.00  
Hydrological Study with Board Approval  \$700.00

The attached Groundwater Extraction Permit Ordinance (2020-01) shall be the presiding reference for processing this application.

Name of Property Owner LISA CLEFTON - BUMPASS &

Address of Property Owner LORRIL FONG - JEAN mailing: PO BOX 959

MENDOCINO CA 95460. Residence: 44780 LITTLE

LAKE ROAD, MENDOCINO CA 95460  
Assessor's Parcel Number(s): APN 119-140-16

Street Address of Project 44780 LITTLE LAKE ROAD,  
MENDOCINO CA 95460

Contact Person LISA CLEFTON - BUMPASS phone 510-461-2205

1. Is this application being submitted as an emergency request? Please attach explanation (see definition of "emergency" in Ordinance) NO
2. Description of the Proposed Project, describing the proposed size and type of use and defining any change in water source or water use including any increase or decrease of water demand. Please include total square footage of the parcels being served. RESIDENTIAL 2-BAY GARAGE WITH A 576 SQUARE FOOT NON-COMMERCIAL RESIDENTIAL GUEST COTTAGE ABOVE GARAGE. WE ARE REQUESTING AN INCREASE IN ALLOTMENT TO USAGE TO A FOUR BEDROOM, CURRENTLY 2 ADULT OCCUPANTS - WITH OCCASIONAL FRIENDS/FAMILY.
3. Maximum daily amount of water use anticipated as a result of proposed change ~~320~~ 360 GPD
4. Does the proposal require new well construction and/or the structural modification of an existing well? Yes \_\_\_ No
5. Have you obtained a well drilling permit from the County? N/A  
Yes \_\_\_ No  If yes, please attach copy.
6. Have you obtained Coastal Commission approval for well drilling? N/A

Yes \_\_\_\_\_ No  if yes, please attach a copy. *N/A*

7. Other permits that apply to this project. Please identify.  
BUILDING PERMIT FROM COUNTY.

8. Do you have a water meter(s)? Yes  No \_\_\_\_\_

9. Do you have any history of water use on a daily basis, either metered or best estimate, if applicable?  
YES,

10. Are there any conservation devices currently in use on your property? Yes  No \_\_\_\_\_ If yes, list conservation devices/measures (i.e. low flush toilets, low flow shower heads, etc.)  
LOW FLOW WATER. DEVICES ARE ALREADY INSTALLED. NEW AUTOMATIC LEAK DETECTION SHUT OFF SYSTEM INSTALLED

11. Are there any current restrictions for water use allotment for your parcel that have been imposed by another government agency? Yes \_\_\_\_\_ No  if yes, explain:  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Limits previously set by the County or the Coastal Commission regarding water use allotments shall be the limits established for the District for the purpose of implementing the groundwater extraction permits.

If restriction or allotment of water use has not been previously established, then the calculation of current water use applicable to the permit shall be based on the type and level of development as defined by the Water Use Standards found in the Groundwater Extraction Permit Ordinance.

12. Does this application anticipate water use that exceeds your current allotment for present water use as defined by the District's Water Use Standards? Yes  No \_\_\_\_\_  
If no, please explain how you propose to restrict your water use to the limits of your current allotment.

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13. Are you applying for “limited increase in water demand” as set forth in Paragraph 4(b) of the exceptions to the hydrological study requirement? If yes, explain how you qualify for this exception.

NO

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14. Are you applying for “modification in the structure or depth of an existing well, or drilling a replacement well,” as set forth in Paragraph 4(c) of the exceptions to the hydrological study requirement? If yes, explain your proposed modification, or replacement well.

NO

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15. Applicant shall attach a plot plan (#1) showing the location of existing water supplies from wells and water storage facilities and the location of all structures on the parcel. Also, indicate placement of any proposed new well and indicate any change in water supply and/or water demand, which will be abandoned, enlarged, or reduced.

NO

16. If a hydrological study is required for this permit application, the applicant shall also attach a site plan (#2) showing names and address of adjacent property owners and location of wells on adjacent properties. (See definition of “adjacent” contained in the Ordinance).

17. Applicant shall attach a scale floor plan (#3) of all structures on the parcel.

18. Itemize any proposed new water demand appliances and/or fixtures that will be included in your proposed project.

SDNK, TOLLET, SHOWER, WATER HEATER

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The Groundwater Extraction Permit Application Approval shall automatically expire by its own terms if the property owner does not obtain Final Approval within the approved time limit found as a condition of approval in the Groundwater Extraction Permit Application Approval. For a two-year approval, the property owner may request a Groundwater Extraction Permit Application Approval Extension for an additional two years. If a Hydrological Study was required for the project and the project has been extended for ten years, the applicant shall provide an approved report that proves the conclusions of the hydrological study are still valid as a condition for additional permit extensions.

**AS A CONDITION OF APPROVAL**, under categories of no increase in water use (question #12) or limited increase in water use (question #13) the property owner agrees to abandon this improvement or conduct a hydrologic study as outlined in the MCCSD Groundwater Extraction Permit Ordinance should the property owner exceed the District's Water Use Standards for more than three months a year or more than two consecutive months.

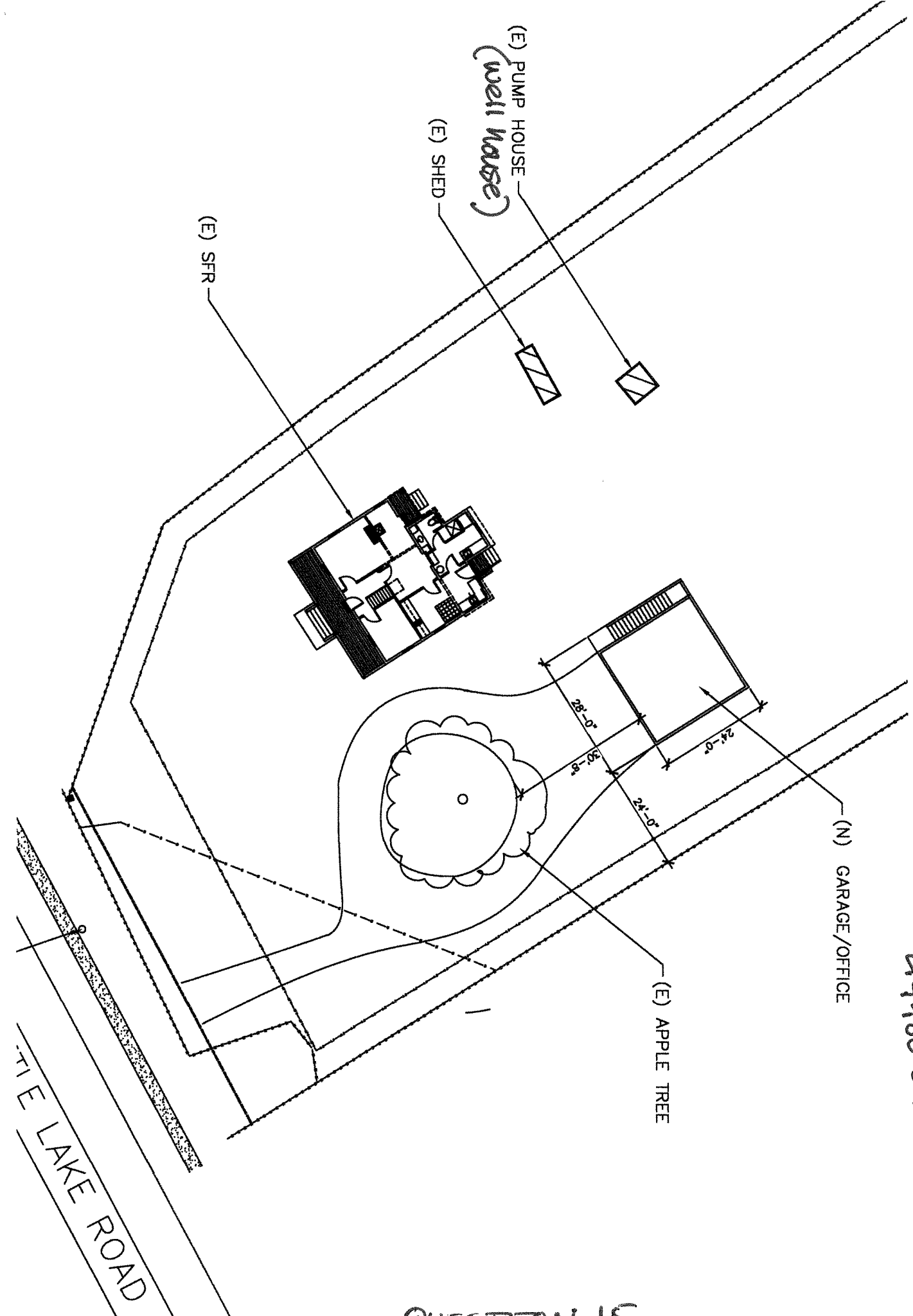
**AS A CONDITION OF APPROVAL**, the property owner agrees to install an approved water meter at the wellhead of each well on the parcel. This meter shall be accessible to a District employee and further, property owner authorizes said District employee to read the water meter during business hours without prior permission. Property owner further agrees to submit a monthly water meter reading on the first of the month for the previous month's groundwater extraction.

The property owner agrees to the above conditions of approval and states under penalty of perjury that the above information provided is true and correct.

Executed in MENDOCINO, California on OCTOBER 15 2024

  
\_\_\_\_\_  
Signature of Property Owner  
*x David Tony Geer*

44780 Little Lake Rd.



QUESTION 16.



Imagery ©2024 Airbus, Maxar Technologies, Map data ©2024 50 ft

Supplement document  
Question #16

#1. 44760 Little Lake Road

owner Janette Hansen

1-707-937-4194

#2. 44740 Little Lake Road

owner Steve Lancaster

1-707-937-1561

#3. 4470 Little Lake Road

owner volunteer Fire Dept.

1-707-937-0131

Joshua Grindle

Grabe Martin

Comm. Center

Cypress Ct.

## GROUNDWATER EXTRACTION PERMIT APPLICATION APPROVAL

( ) Administrative (  ) Board of Directors

**GWEA No. 2025-334 Fees: \$700 Paid Date: 10/15/2024**

**Property Address: 44780 Little Lake Rd., Mendocino**

**Property Owner's Name: Lisa Clifton-Bumpass and Lorril Fong-Jean**

**Property Owner's Mailing Address: PO Box 959, Mendocino**

**Contact Person/Agent: Lisa Clifton-Bumpass**

**Telephone: 510-461-2205 APN: 119-140-16**

**Date of Application: 10/15/2024 Date of Review: 2/21/2025**

**Application Deemed Complete Yes (  ) No ( )**

**Hydrological Study Required Yes (  ) No ( )**

### **Exceptions to Study Requirements:**

- ( ) 4 ( a ) No Increase
- ( ) 4 ( b ) Limited Increase in Demand
- ( ) 4 ( c ) Deepening or Drilling Well
- ( ) 4 ( d ) Prior to Issuance of County Use Permit
- ( ) 4 ( e ) Prior to Issuance of County Building Permit

### **Staff Comments/Recommendations:**

The approved project will include a three (3) bedroom residence and a residential two (2)-bay garage with 576 square foot non-commercial residential guest cottage above the garage. The parcel will have a daily sewer and water demand of 360 gallons per day, and water allotment not to exceed 360 gpd. Property owners still must complete a sewer right of use form and pay for the additional development of 0.5 ESD's. Property owners must continue to report their monthly water meter extraction.

This approval does not guarantee that sufficient quantities of water exist on this property for the intended use. This document is intended solely as an indication that the applicant has met the minimum District requirements for proof of water. The actual quantity or quality of water to be derived from any well is a function of factors beyond the District's control, and the District makes no representations whatsoever in this regard. By signing this document, the applicant agrees he/she has read and understands this disclaimer.

**Permit Conditions/Conservation Measures:**

- |  |
|--|
| <ol style="list-style-type: none"> <li>1. Property owner agrees to allow District personnel to inspect water meter installation</li> <li>2. Property owner agrees to allow District personnel to GPS wellsite</li> <li>3. Property owner agrees to provide a copy of the well log to MCCSD</li> <li>4. Property owner agrees to sign and return this approval by <u>3/24/2025</u></li> <li>5. A Final Groundwater Extraction Permit shall be issued by MCCSD following completion of the above listed conditions and receipt of this signed approval form</li> </ol> |
|--|

**Water Meter Installed** Yes (  ) No (  )

**Groundwater Extraction Allotment after Issuance of Permit**

**Monthly Allotment**

10,800 gallons

**Daily Allotment**

360 gallons per day

Pursuant to the authority as set forth in the California Water Code Sections 10700 through 10717 and MCCSD Ordinance No. 2020-01, the Mendocino City Community Services District hereby (  ) approves (  ) denies (  ) continues a Groundwater Extraction Permit for APN 119-140-16 by the following:

(  ) Vote of the Board  
AYES:  
NOES:  
ABSTAIN:

\_\_\_\_\_  
President of the Board

\_\_\_\_\_  
Date

\_\_\_\_\_  
Attest: District Secretary

\_\_\_\_\_  
Date

(  ) Administrative Approval

\_\_\_\_\_  
District Superintendent

\_\_\_\_\_  
Date

\_\_\_\_\_  
Attest: District Secretary

\_\_\_\_\_  
Date

(  ) Acknowledgment signature required by Property Owner of the above permit conditions

\_\_\_\_\_  
Property Owner/  
Representative of Owner

\_\_\_\_\_  
Date

**(GWEP Application Approval Expiration Date: 2/24/2027)**

**Note: Please execute and return the original document with your signature to validate your Groundwater Extraction Permit Application Approval.**