

May 27, 2025

Monterey Subbasin Corral de Tierra Area Monitoring Well Construction, Development, Testing, Sampling, & Equipping

Prepared for:



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- Appendix A. Well Permits, Geophysical, Caliper, and Lithologic Logs, Cuttings Photos, As-Built Diagrams, Well Completion Reports, Encroachment Permits, and Project Chronology
- Appendix B. Land Surveyor Data Sheets
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- Appendix D. Pneumatic Slug Test Analysis



1 INTRODUCTION

Montgomery & Associates (M&A) has prepared this report on behalf of the Salinas Valley Basin Groundwater Sustainability Agency (SVBGSA) to summarize the drilling, construction, development, testing, and equipping of 4 monitoring wells installed in the Monterey Subbasin Corral de Tierra Area. Monitoring wells M-ISW-1; M-GWL-2; M-GWL-3; and M-GWL-4 were installed by SVBGSA to fill data gaps identified in the approved Monterey Subbasin Groundwater Sustainability Plan (GSP). Monitoring well installation activities were funded by the Department of Water Resources (DWR) Sustainable Groundwater Management (SGM) Round 2 Implementation Grant.

The locations of M-ISW-1; M-GWL-2; M-GWL-3; and M-GWL-4 are shown on Figure 1. This report summarizes the well installation activities that occurred from August 2024 to March 2025.

1.1 Background

The GSP established monitoring well networks to assess groundwater levels and interconnected surface water in the Monterey Subbasin Corral de Tierra Area. Based on GSP review, data gaps were identified within these networks. Initially, SVBGSA attempted to fill data gaps using existing wells in the Subbasin monitored by Monterey County Water Resources Agency (MCWRA) or other agencies. Re-evaluation of the monitoring networks indicated additional wells were needed. Installation of new monitoring wells was recommended to address lack of groundwater level data in areas with substantial groundwater withdrawal, and in an area near the lower reaches of the El Toro Creek where groundwater has been recorded within 20 feet of land surface.

1.2 Hydrogeologic Setting

The groundwater aquifers in the Corral de Tierra Area in the Monterey Subbasin have historically been described by their geologic names, including the Aromas Red Sands, Paso Robles Formation, and Santa Margarita Sandstone (SVBGSA, 2022). These geologic formations are grouped together to form the El Toro Primary Aquifer System for the Corral de Tierra Area.

In 2024, M&A reviewed new data to update the hydrogeologic conceptual model (HCM) of the Monterey Subbasin (M&A, 2025). The bedrock unit in the Corral de Tierra area is the Monterey Formation, which rises to the land surface midway between San Benancio Road and the intersection of Highway 68 and River Road. The groundwater basin on the northeastern side of that rise is hydraulically associated with the aquifers of the 180/400 Subbasin. Based on the updated HCM, only the portion of the Corral de Tierra Area to the southwest of the rise is considered the El Toro Primary Aquifer System.



1.3 Well Locations and Objectives

The 4 new monitoring wells were installed to address the HCM data gaps identified in the GSP. Monitoring wells M-GWL-2, M-GWL-3, and M-GWL-4 were installed to fill data gaps in the groundwater level monitoring network. The wells were constructed with screened intervals in transmissive sediments of the El Toro Primary Aquifer System and in the portion of the Paso Robles Formation associated with the 180/400 Subbasin to obtain representative groundwater levels. Monitoring well M-ISW-1 was installed to fill a data gap in the interconnected surface water monitoring network. M-ISW-1 was installed near an inactive stream gage adjacent Toro Creek to assess the depletion of interconnected surface water.

M-GWL-2 was installed on the southwest side of CR-G17 (River Road) southeast of the intersection with Riverview Court and is not representative of the El Toro Primary Aquifer System. M-GWL-3 was installed on the southwest side of San Benancio Road, south of the intersection with Deer Run Lane. M-GWL-4 was installed on the east side of Corral de Tierra Road, north of the intersection with Markham Lane. M-ISW-1 was installed on the south side of Portola Drive, east of the intersection with Creekside Terrace.

1.4 Field Program Chronology

The following is a generalized chronological summary of key field program events:

- 1. August 8 16, 2024: Drill, construct, and develop M-ISW-1
- 2. August 19 September 5, 2024: Drill, construct, and develop M-GWL-2
- 3. September 9 17, 2024: Drill, construct, and develop M-GWL-3
- 4. September 23 October 15, 2024: Drill, construct, and develop M-GWL-4
- 5. January 7 10 2025: Conduct groundwater sampling at M-GWL-2 and M-GWL-4
- 6. January16 17, 2025: Conduct pneumatic slug testing at M-GWL-2 and M-GWL-4
- March 6, 2025: Install dedicated datalogging pressure transducers at M-GWL-2, M-GWL-4, and M-ISW-1





Figure 1. Monitoring Well Locations



2 MONITORING WELL INSTALLATION

This section describes monitoring well drilling, construction, and development activities. Well installation activities were completed in accordance with M&A's *Technical Specifications, Salinas Valley Basin Groundwater Sustainability Agency Monterey Subbasin Monitoring Well Construction and Development* (M&A, 2024).

Well installation activities involved the following parties:

- Montgomery & Associates (M&A) Contracted by SVBGSA for planning, field construction management services, groundwater quality sampling, pneumatic slug testing, and reporting of well installation activities
 - Subtronic Corporation (Subtronic) Contracted by M&A for underground utility locating services at the monitoring well sites prior to drilling operations
- Parks Water Resources, LLC. (Parks) of Zamora, California, a licensed C-57 well driller

 Contracted by SVBGSA for monitoring well drilling (mud rotary methods),
 construction, and development
 - PeneCore Drilling (PeneCore) of Woodland, California, a licensed C-57 well driller Subcontracted by Parks for monitoring well drilling (hollow stem auger method), construction, and development
 - Stewart Well Logging Service (Stewart) Contracted by Parks for geophysical and caliper logging services
- Whitson Engineers (Whitson), a land surveyor licensed in the state of California Contracted by SVBGSA for surveying rights-of-way and surveying monitoring well locations and elevations

M&A observed most site activities associated with monitoring well installation and development. The following sections summarize activities observed by M&A and information provided to M&A by Parks, PeneCore, and Stewart.

2.1 Drilling and Construction

Monitoring wells M-GWL-2; M-GWL-3; M-GWL-4; and M-ISW-1 were installed in accordance with procedures described in State of California Water Well Standard Bulletins 74-81 (State of California, 1981) and 74-90 (State of California, 1991). Copies of monitoring well construction permits obtained from the Monterey County Environmental Health Bureau are provided in Appendix A.



2.1.1 Direct Rotary Drilling

Drilling, well construction, and development of new monitoring wells M-GWL-2, M-GWL-3, and M-GWL-4 were conducted by Parks. The 10.625-inch diameter boreholes were advanced by direct rotary drilling methods using a GEFCO 50K drill rig. During drilling, a bentonite-based drilling fluid was used to maintain borehole stability. Following drilling activities at each location, drill cuttings and drilling fluids generated during drilling were removed from the sites for proper disposal.

During direct rotary drilling, Parks used a 10.625-inch diameter mill tooth bit, button bit, and drag bit and collected samples of drill cuttings off the shaker every 10 feet of vertical drilling. An M&A hydrogeologist maintained lithologic logs of all subsurface materials encountered and prepared chip trays with representative samples. Detailed lithologic logs and photographs of the chip trays are provided in Appendix A.

After reaching total depth on each of the pilot boreholes, Stewart conducted downhole geophysical surveys that included natural gamma radiation, spontaneous potential, short and long normal resistivities, and single point resistance. Results of the geophysical surveys are provided in Appendix A. Following the ream pass, Stewart conducted a caliper survey to measure the borehole's diameter and shape, results of which are included in Appendix A.

2.1.1.1 Well Design

M&A and Stewart collected lithologic and geophysical data used to support well design. M&A interpreted multiple types of data together to determine the downhole lithology. This included the cuttings samples, observations made during drilling, and the geophysical survey results. The interpreted lithology of each borehole is included in Appendix A.

2.1.1.2 Well Construction

Monitoring wells M-GWL-2, M-GWL-3, and M-GWL-4 were constructed with nominal 4-inch diameter (3.8-inch inner diameter and 4.5-inch outer diameter), flush threaded, Schedule 80 poly vinyl-chloride (PVC) well casing and screen, with horizontal machine-cut 0.040-inch slots. The wells were completed with a 5-foot cellar with a stainless-steel threaded end cap. Casing centralizers were installed at the top and bottom of the screened interval and every 80 feet along the casing to ensure that it was centered in the borehole.

Following casing installation at each location, annular materials were placed from the bottom to the top of the borehole using a tremie pipe. From bottom to top, annular materials included hydrated bentonite tablets, 8 x 16 gradation filter media (provided by SRI Supreme), hydrated bentonite tablets, high solids powdered bentonite grout, and neat cement with 2% bentonite.



Placement of the annular seal at each location was approved by a Monterey County Environmental Health Bureau inspector who was present to witness placement of all annular seals. Well schematics for M-GWL-2, M-GWL-3, and M-GWL-4 are provided in Appendix A. Table 1 summarizes the as-built construction details for these monitoring wells.

	M-ISW-1	M-GWL-2	M-GWL-3	M-GWL-4
Total Drilled Depth (feet)	75	600	340	600
Borehole Diameter (inches)	8	10.625	10.625	10.625
Completed Depth ^a (feet)	70	545	330	395
Casing Diameter (inches)	2 (nominal)	4 (nominal)	4 (nominal)	4 (nominal)
Casing Material	Schedule 80 PVC	Schedule 80 PVC	Schedule 80 PVC	Schedule 80 PVC
Screened Interval (feet)	15-65	490-540	300-325	350-390
Filter Pack Material	8 x 16	8 x 16	8 x 16	8 x 16
Depth of Annular Seal (feet)	10	50	50	50
Static Water Level ^b (feet btoc)	N/A	60.52	N/A	190.48

Table 1. Well Construction Summary

Notes:

btoc – below top of casing

^aCompleted depth is defined as the bottom of the casing.

^bStatic water levels were measured on December 5, 2024.

2.1.2 Hollow Stem Auger Drilling

Drilling and well construction of new monitoring well M-ISW-1 was conducted by PeneCore. The 8-inch diameter borehole was advanced by the hollow-stem auger method using a Geoprobe 8040DT drill rig. Following drilling activities, drill cuttings generated during drilling were removed from the site for proper disposal.

During hollow-stem auger drilling, PeneCore used an 8-inch auger bit and collected samples of the formation every 10 feet of vertical drilling using a split-spoon sampler. An M&A hydrogeologist maintained lithologic logs of all subsurface materials encountered and prepared chip trays with representative samples. Detailed lithologic logs and photographs of the chip trays are provided in Appendix A.

2.1.2.1 Well Design

M&A collected lithologic data used to support well design. The interpreted lithology of each borehole is included in Appendix A.



2.1.2.2 Well Construction

Monitoring well M-ISW-1 was constructed with nominal 2-inch diameter (1.9-inch inner diameter and 2.4-inch outer diameter), flush threaded, Schedule 80 PVC well casing and screen, with horizontal machine-cut 0.040-inch slots. The well was completed with a 5-foot cellar and a stainless-steel threaded end cap.

Following casing installation at each location, annular materials were placed from the bottom to the top of the borehole using a tremie pipe. From bottom to top, annular materials included 8 x 16 gradation filter media (provided by SRI Supreme), hydrated bentonite tablets, and neat cement. Placement of the annular seal at M-ISW-1 was approved by a Monterey County Environmental Health Bureau inspector who was present to witness the placement of the annular seal.

The well schematic for M-ISW-1 is provided in Appendix A. As-built construction details are summarized in Table 1.

2.2 Well Development

Following construction, Parks completed well development at M-GWL-2 and M-GWL-4 after allowing a minimum of 24 hours for the sanitary seal to cure. Parks did not conduct well development at M-GWL-3 because saturated material was not encountered at that location from ground surface to a depth of 340 feet below ground surface (bgs). Initial development consisted of open-ended airlifting. Using a 1-inch airline and the well casing as an eductor pipe, airlifting was completed from the top of the well to the bottom until the discharge was free of drilling fluid and purge water was visibly clear. Fill generated during this process was removed from the bottom of the well by lowering the airline into the cellar section.

Following open-ended airlifting, M-GWL-2 and M-GWL-4 were further developed by swabbing while simultaneously airlifting. This process was completed from the top of the well screens to the bottom of the well using a 5-foot dual-swab tool composed of a perforated pipe equipped with two 4-inch diameter rubber flanges on either end. Swabbing and simultaneous airlifting was generally completed in 5-foot intervals until the discharge water became visibly clear.

Following construction, PeneCore did not conduct well development at M-ISW-1 because shallow groundwater was not encountered during drilling. Because M-ISW-1 was a dry well when it was constructed, there was no shallow groundwater interconnected to the surface water at El Toro Creek. El Toro Creek was observed to also be dry at the time of well construction. Therefore, during the summer of 2024 there was no potential for depletion of interconnected surface water at the M-ISW-1 location. The relationship between shallow groundwater and the



surface water at El Toro Creek will continue to be monitored to assess any potential for future depletions of interconnected surface water, especially during periods of high winter flows.

2.3 Well Completion

As requested by MCWRA, each monitoring well was completed with a standpipe monument each protected using 3 traffic bollards—and locking cover to prevent tampering. Figure 2 shows the M-GWL-2 surface completion as an example. The State of California Well Completion Reports for each well are provided in Attachment A.



Figure 2. Standpipe Monument

2.4 Monitoring Well Surveying

Following installation of the surface completions, Whitson Engineers surveyed the location, land surface elevation, and top of casing reference point elevation at each monitoring well. Survey information is summarized in Table 2, and land surveyor data reports are provided in Appendix B.



Table 2. Monitoring Well Surveyed Elevations

	California S Zone IV,	California State Plane Zone IV, NAD 83 Measuring				Approximate	Approximate Elevation of	
Well	X Coordinate (feet)	Y Coordinate (feet)	Land Surface Elevation NAVD 88 (feet)	Point Elevation ^a NAVD 88 (feet)	Elevation at Top of Screen NAVD 88 (feet)	Elevation at Bottom of Screen NAVD 88 (feet)	Groundwater Surface NAVD 88 (feet)	
M-ISW-1	5773987.33	2121098.85	62.66	65.54	47.66	-2.34	N/A	
M-GWL-2	5781136.20	2118587.22	61.92	63.86	-428.08	-478.08	3.34	
M-GWL-3	5770514.31	2095820.89	668.75	670.69	368.75	343.75	N/A	
M-GWL-4	5759221.82	2097357.31	379.95	381.61	29.95	-10.05	191.13	

Notes:

NAVD = North American Vertical Datum

^aMeasuring point elevation or reference point elevation is marked on the north side of the casing in permanent marker.



3 MONITORING WELL SAMPLING, TESTING, AND EQUIPPING

Following well installation, groundwater sampling and aquifer testing was conducted at monitoring wells M-GWL-2 and M-GWL-4. Additionally, M-GWL-2, M-GWL-4, and M-ISW-1 were equipped with pressure transducers to monitor changes in groundwater elevations over time. Sampling, testing, and equipping activities are summarized in the following sections.

3.1 Groundwater Sampling

From January 7 to January 9, 2025, groundwater samples were collected from M-GWL-2 and M-GWL-4 for laboratory analysis. M-ISW-1 and M-GWL-3 were not sampled because they are screened in zones that are currently unsaturated.

3.1.1 Sampling Methods

Groundwater samples were collected by M&A in coordination with Parks using the standard purge method. Prior to sample collection, Parks removed at least 3 casing volumes of groundwater at each well using a submersible pump.

Following collection, samples were delivered to the Monterey County Health Department Laboratory for irrigation suitability, arsenic, iron, and manganese analysis.

3.1.2 Results

A copy of the laboratory report is provided in Appendix C. Groundwater quality results are summarized in Table 1. As shown in Table 3, the sample from M-GWL-2 was reported above the secondary maximum contaminant level (MCL) for conductivity, manganese, and total dissolved solids (TDS). The sample from M-GWL-4 was reported above the secondary MCL for conductivity and TDS.



Analyte	M-GWL-2	M-GWL-4	State MCL	Secondary MCL	Units
Arsenic	2	6	10		ug/L
Boron	0.21	0.17			mg/L
Calcium	176	132			mg/L
Chloride	108	194		250	mg/L
Conductivity @ 25°C	1,570	1,520		900	umho/cm
Hardness	2,690	449			mg/L
Iron	<100	<100		300	ug/L
Magnesium	546	29			mg/L
Manganese	66	34		50	ug/L
Nitrate as NO3	<1	8.8	45		mg/L
рН	6.7	6.5			рН
Potassium	5.1	3.9			mg/L
Sulfate	205	168		250	mg/L
Sodium	84	126			mg/L
Total Alkalinity as CaCO3	467	290			mg/L
Total Dissolved Solids	1,000	933		500	mg/L

Table 1. Water Quality Summary

Notes:

MCL = maximum contaminant level

mg/L = milligrams per liter

ug/L = micrograms per liter

umhos/cm = micromhos per centimeter

Concentrations in red font exceed MCL.

Groundwater samples were collected at M-GWL-2 and M-GWL-4 to establish baseline water quality and collect information in the data gap areas.

3.2 Pneumatic Slug Testing

From January 16 to January 17, 2025, pneumatic slug testing was conducted at groundwater level monitoring wells M-GWL-2 and M-GWL-4; however, M-ISW-1 and M-GWL-3 were not tested because they are screened in zones that are currently unsaturated. Pneumatic slug testing was conducted to refine aquifer properties in the groundwater model.

3.2.1 Testing Procedure

Prior to pneumatic slug testing, monitoring wells M-GWL-2 and M-GWL-4 were left undisturbed for at least 2 days following groundwater sampling activities. Pneumatic slug testing was conducted by applying air pressure to the sealed monitoring wells to lower the groundwater



level in the wells. Testing comprised the pressurization and instantaneous depressurization of the water column in the monitoring wells, displacing a known volume of water in each well and measuring the imposed fluctuation (rise and oscillation) of the groundwater level.

Each monitoring well was equipped with a wellhead manifold and a datalogging pressure transducer to measure water level response during testing. The dataloggers were programmed to record water levels at a rate of 1 reading per second. A minimum of 6 rising head pneumatic slug tests were conducted at each well to verify that the data were repeatable. Slugs of different air pressure were used at each location for comparative analysis. Monitoring of rising head continued until the water level recovered to within approximately 99% of the initial static water level.

3.2.2 Pneumatic Slug Test Results

Water level recovery data for rising head tests were analyzed to estimate hydraulic conductivity (K) using the aquifer test analytical software AQTESOLV (HydroSOLVE, 2015). The KGS method (Hyder *et al.*, 1994) was used to analyze the observed water level response at both wells. The water level response at M-GWL-2 and M-GWL-4 were both overdamped so the KGS analytical method was used. The overdamped response is characterized by increasing groundwater levels that do not oscillate. This response dictates the use of the KGS method because a good fit cannot be obtained using a physically plausible storage estimate and both wells are partially penetrating.

For pneumatic slug tests, displacement (i.e., change in water level in the well) at a given time t during the test (Ht) is normalized by the initial displacement (H0) as follows:

normalized head = Ht/H0

The normalized head was plotted against time and matched against type curves of known horizontal K. Horizontal K was also estimated using a straight-line method (Hvorslev, 1951) to compare to the values estimated using type curves and to validate the results. Analytical results are presented as horizontal K in units of feet per day (ft/day). The horizontal K values from the slug tests at each well are considered representative of the aquifer near the well at the depth of their screened intervals.

Table 4 summarizes the estimated horizontal K values for each analytical method and the arithmetic mean of values from both analytical methods. Graphs of observed water level response and the selected type curve for analysis are provided in Appendix D. M-GWL-2 is not representative of the El Toro Primary Aquifer System as it is located north of where the Monterey Formation rises to land surface midway between San Benancio Road and the intersection of Highway 68 and River Road.



Well ID	Analytical Method	K (ft/day)	Analytical Method	K (ft/day)	Kavg (ft/day)
M-GWL-2	KGS	4.6	Hvorslev	5.3	4.9
M-GWL-4	KGS	20.6	Hvorslev	19.0	19.8

Table 2. Summary of Estimated	d Hydraulic Conductivity fr	rom Pneumatic Slug	Testing Analyses
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3.3 Well Equipping

On March 6, 2025, monitoring wells M-ISW-1, M-GWL-2, and M-GWL-4 were equipped with In-Situ Level TROLL 500 datalogging pressure transducers to continuously measure groundwater levels. The pressure transducers were suspended in the wells using vented direct data cables.

The dedicated monitoring equipment was installed in each well based on static groundwater levels and depths of screened intervals. In the groundwater level monitoring network wells M-GWL-2 and M-GWL-4, the pressure transducers were placed approximately 200 feet below the static water level measured at each location. In the interconnected surface water monitoring network well M-ISW-1, the pressure transducer was placed approximately 65 feet below top of casing, at the bottom of the screened interval. Table 5 summarizes pressure transducer specifications and depths.

Monitoring Well	Screened Interval (feet btoc)	Static Groundwater Level (feet btoc)	Transducer Depth (feet btoc)	Range (ft H₂O)	Transducer Model
M-GWL-2	490-540	60.52	261	692	Level TROLL 500
M-GWL-4	350-390	190.48	390	692	Level TROLL 500
M-ISW-1	15-65	N/A	65	692	Level TROLL 500

Table 3. Transducer Specifications

btoc – below top of casing ft H2O - feet of Water Column



4 **REFERENCES**

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- HydroSOLVE, Inc., 2015. AQTESOLV for Windows 95/98/Me/NT/2000/XP/Vista: HydroSOLVE, Inc., Reston, Virginia, version 4.51.010 – Professional.
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- Montgomery & Associates (M&A), 2024. Technical Specifications, Salinas Valley Basin Groundwater Sustainability Agency Monterey Subbasin Monitoring Well Construction and Development. April 2024.
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- State of California, 1981. Water Well Standards: State of California, Bulletin 74-81. December 1981.

State of California, 1991. Water Well Standards: State of California, Bulletin 74-90. June 1991.



5 ACRONYMS & ABBREVIATIONS

bgs	.below ground surface
btoc	.below top of casing
DWR	.Department of Water Resources
ft/day	.feet per day
ft H2O	.feet of Water Column
GSP	.Groundwater Sustainability Plan
HCM	.hydrogeologic conceptual model
M&A	.Montgomery & Associates
MCL	.maximum contaminant level
MCWRA	.Monterey County Water Resources Agency
mg/L	.milligrams per liter
NAVD	North American Vertical Datum
Parks	.Parks Water Resources
PeneCore	.PeneCore Drilling
PVC	.polyvinyl chloride
SGM	.Sustainable Groundwater Management
Stewart	.Stewart Well Logging Services
Subtronic	.Subtronic Corporation
SVBGSA	.Salinas Valley Basin Groundwater Sustainability Agency
TDS	.total dissolved solids
ug/L	.micrograms per liter
umhos/cm	.micromhos per centimeter
Whitson	.Whitson Engineering



Appendix A

Well Permits, Geophysical, Caliper, and Lithologic Logs, Cuttings Photos, As-Built Diagrams, Well Completion Reports, Encroachment Permits, and Project Chronology

MONTEREY COUNTY

DEPARTMENT OF HEALTH ENVIRONMENTAL HEALTH BUREAU

1270 Natividad Road Salinas, CA 93906 (831) 755-4507



MONITORING WELL CONSTRUCTION PERMIT

WELL PERMIT: #25-000011 (90-FT)

ISSUANCE DATE: 7/27/2024 **EXPIRATION DATE:** 7/27/2025

SITE LOCATION: Portola Site 4

Lat: 36.623500° N; Long: -121.684608°W

INTENDED USE: GSA Monitoring Well Project

PROPERTY OWNER: County Road Easement

APPLICANT: SVBGSA (Salinas Valley Basin Groundwater Sustainability Agency)

ADDRESS: P.O. Box 1350

PHONE: (831) 277-1807

CITY: Carmel Valley

DRILLING CONTRACTOR: Parks Water Resources LICENSE: 1113206

ISSUED BY:_____

Christie T. Vo, REHS

CH. RISTE VO

PROJECT DESCRIPTION:

This well permit authorizes the Salinas Valley Basin Groundwater Sustainability Agency (SVBGSA) to install a monitoring well subject to the conditions of approval set forth herein. The project consists of a monitoring well to evaluate hydrological information. The issuance of this permit is exempt from the California Environmental Quality Act pursuant to 14 CCR section 15300.

CONDITION OF APPROVAL:

- Owner, Applicant and any agents working on Owner's or Applicant's behalf (hereafter collectively referred to as "Permittee") shall comply with all requirements set forth in Monterey Code Chapter 15.08 and the California Department of Water Resources California Well Standards Bulletins 74-81 and 74-90 and shall comply with all the conditions of approval of this permit.
- 2. The well shall be at least 100 feet from any septic tank; any portion of any leach field or animal enclosure; 50 feet from any sewer main, line or lateral; and 150 feet from any seepage pit. If type of absorption field is unknown, the distance shall be 150 feet.

- 3. Location of the well shall not prevent the installation, relocation or expansion of the septic system on any adjoining lot.
- 4. Water well permit shall be kept on site at all times while work is in progress.
- 5. The well shall be drilled in the approved location delineated on the attached map, **Exhibit A**. The well cannot be drilled in any other location without prior approval from Monterey County Health Department, Environmental Health Bureau (EHB) and receipt of an amended permit.
- 6. Notify the EHB at least 24 hours prior to moving on site.
- 7. Notify the EHB 24 hours prior to the time you expect to place any seal.
- 8. If the seal(s) cannot be witnessed by the EHB, a detailed, written description of the seal(s) shall be submitted to the EHB within ten days.
- 9. Surface construction features of the completed well shall be in accordance with the California Well Standards Bulletin 74-81 and Bulletin 74-90 Section 10.
- 10. The Owner and Applicant shall defend, indemnify and hold harmless the County and its officers, agents, and employees from and against any and all actions or claims of any description brought on account of approval of this permit or any injury or damages sustained by any person or property resulting from the issuance of the permit or the conduct of the activities authorized under said permit.
- 11. Issuance of this permit to construct a water well does not create, transfer, assign or acknowledge any legal rights to water associated with this property.
- 12. Issuance of this permit to construct a monitoring well does not guarantee that the well can be approved for domestic use.
- 13. A geologic log shall be performed and it shall be submitted to the EHB to review before the well is sealed. Interpretation of the geologic log shall be provided by the contractor indicating the best location(s) for sealing off poor quality water and the proposed seal depth. The exact location of sanitary and strata seals shall be approved by the EHB in consultation with any appropriate water management agency before the well is sealed. The permit applicant may request review of the approved seal depth by a 3rd party licensed hydrogeologist at the applicant's expense if the applicant disagrees with EHB's decision.

END

IN1211271 Paid 7/25/2024



SVBGSA – Monterey Subbasin

18987 Portola Dr. Northwest side of State Route 68(Monterey Salinas Hwy) west of the intersection Reservation Rd. – G17

GPS 36.623500, -121.684608

MONTEREY COUNTY

DEPARTMENT OF HEALTH ENVIRONMENTAL HEALTH BUREAU 1270 Natividad Road

Salinas, CA 93906 (831) 755-4507



MONITORING WELL CONSTRUCTION PERMIT

WELL PERMIT: #25-000012 (600-FT)

ISSUANCE DATE: 7/27/2024

EXPIRATION DATE: 7/27/2025

SITE LOCATION: River Road Site 5

Lat: 36.617071° N; Long: -121.659948°W

INTENDED USE: GSA Monitoring Well Project

PROPERTY OWNER: County Road Easement

APPLICANT: SVBGSA (Salinas Valley Basin Groundwater Sustainability Agency)

ADDRESS: P.O. Box 1350

PHONE: (831) 277-1807

CITY: Carmel Valley

DRILLING CONTRACTOR: Parks Water Resources LICENSE: 1113206

ISSUED BY:

CHIRISTIE VO

Christie T. Vo, REHS

PROJECT DESCRIPTION:

This well permit authorizes the Salinas Valley Basin Groundwater Sustainability Agency (SVBGSA) to install a monitoring well subject to the conditions of approval set forth herein. The project consists of a monitoring well to evaluate hydrological information. The issuance of this permit is exempt from the California Environmental Quality Act pursuant to 14 CCR section 15300.

CONDITION OF APPROVAL:

- Owner, Applicant and any agents working on Owner's or Applicant's behalf (hereafter collectively referred to as "Permittee") shall comply with all requirements set forth in Monterey Code Chapter 15.08 and the California Department of Water Resources California Well Standards Bulletins 74-81 and 74-90 and shall comply with all the conditions of approval of this permit.
- 2. The well shall be at least 100 feet from any septic tank; any portion of any leach field or animal enclosure; 50 feet from any sewer main, line or lateral; and 150 feet from any seepage pit. If type of absorption field is unknown, the distance shall be 150 feet.

- 3. Location of the well shall not prevent the installation, relocation or expansion of the septic system on any adjoining lot.
- 4. Water well permit shall be kept on site at all times while work is in progress.
- 5. The well shall be drilled in the approved location delineated on the attached map, **Exhibit A**. The well cannot be drilled in any other location without prior approval from Monterey County Health Department, Environmental Health Bureau (EHB) and receipt of an amended permit.
- 6. Notify the EHB at least 24 hours prior to moving on site.
- 7. Notify the EHB 24 hours prior to the time you expect to place any seal.
- 8. If the seal(s) cannot be witnessed by the EHB, a detailed, written description of the seal(s) shall be submitted to the EHB within ten days.
- 9. Surface construction features of the completed well shall be in accordance with the California Well Standards Bulletin 74-81 and Bulletin 74-90 Section 10.
- 10. The Owner and Applicant shall defend, indemnify and hold harmless the County and its officers, agents, and employees from and against any and all actions or claims of any description brought on account of approval of this permit or any injury or damages sustained by any person or property resulting from the issuance of the permit or the conduct of the activities authorized under said permit.
- 11. Issuance of this permit to construct a water well does not create, transfer, assign or acknowledge any legal rights to water associated with this property.
- 12. Issuance of this permit to construct a monitoring well does not guarantee that the well can be approved for domestic use.
- 13. A geologic log shall be performed and it shall be submitted to the EHB to review before the well is sealed. Interpretation of the geologic log shall be provided by the contractor indicating the best location(s) for sealing off poor quality water and the proposed seal depth. The exact location of sanitary and strata seals shall be approved by the EHB in consultation with any appropriate water management agency before the well is sealed. The permit applicant may request review of the approved seal depth by a 3rd party licensed hydrogeologist at the applicant's expense if the applicant disagrees with EHB's decision.

END

IN1211272 Paid 7/25/2024

Well Permit #25-000012-(24) Exhibit A



SVBGSA – Monterey Subbasin

Southwest side of CR-G17(River Road) Southeast of the intersection with Riverview Court

GPS 36.617071, -121.659948

MONTEREY COUNTY

DEPARTMENT OF HEALTH ENVIRONMENTAL HEALTH BUREAU

1270 Natividad Road Salinas, CA 93906 (831) 755-4507



MONITORING WELL CONSTRUCTION PERMIT

WELL PERMIT: #25-000013 (600-FT)

SITE LOCATION: San Benancio Site 6

Lat: 36.553944° N; Long: -121.694162°W

INTENDED USE: GSA Monitoring Well Project

PROPERTY OWNER: County Road Easement

APPLICANT: SVBGSA (Salinas Valley Basin Groundwater Sustainability Agency)

ADDRESS: P.O. Box 1350

PHONE: (831) 277-1807

ISSUANCE DATE: 7/27/2024

EXPIRATION DATE: 7/27/2025

CITY: Carmel Valley

DRILLING CONTRACTOR: Parks Water Resources LICENSE: 1113206

ISSUED BY: CHRISTIE V

Christie T. Vo, REHS

PROJECT DESCRIPTION:

This well permit authorizes the Salinas Valley Basin Groundwater Sustainability Agency (SVBGSA) to install a monitoring well subject to the conditions of approval set forth herein. The project consists of a monitoring well to evaluate hydrological information. The issuance of this permit is exempt from the California Environmental Quality Act pursuant to 14 CCR section 15300.

CONDITION OF APPROVAL:

- Owner, Applicant and any agents working on Owner's or Applicant's behalf (hereafter collectively referred to as "Permittee") shall comply with all requirements set forth in Monterey Code Chapter 15.08 and the California Department of Water Resources California Well Standards Bulletins 74-81 and 74-90 and shall comply with all the conditions of approval of this permit.
- 2. The well shall be at least 100 feet from any septic tank; any portion of any leach field or animal enclosure; 50 feet from any sewer main, line or lateral; and 150 feet from any seepage pit. If type of absorption field is unknown, the distance shall be 150 feet.

- 3. Location of the well shall not prevent the installation, relocation or expansion of the septic system on any adjoining lot.
- 4. Water well permit shall be kept on site at all times while work is in progress.
- 5. The well shall be drilled in the approved location delineated on the attached map, **Exhibit A**. The well cannot be drilled in any other location without prior approval from Monterey County Health Department, Environmental Health Bureau (EHB) and receipt of an amended permit.
- 6. Notify the EHB at least 24 hours prior to moving on site.
- 7. Notify the EHB 24 hours prior to the time you expect to place any seal.
- 8. If the seal(s) cannot be witnessed by the EHB, a detailed, written description of the seal(s) shall be submitted to the EHB within ten days.
- 9. Surface construction features of the completed well shall be in accordance with the California Well Standards Bulletin 74-81 and Bulletin 74-90 Section 10.
- 10. The Owner and Applicant shall defend, indemnify and hold harmless the County and its officers, agents, and employees from and against any and all actions or claims of any description brought on account of approval of this permit or any injury or damages sustained by any person or property resulting from the issuance of the permit or the conduct of the activities authorized under said permit.
- 11. Issuance of this permit to construct a water well does not create, transfer, assign or acknowledge any legal rights to water associated with this property.
- 12. Issuance of this permit to construct a monitoring well does not guarantee that the well can be approved for domestic use.
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END

IN1211273 Paid 7/25/2024



SVBGSA – Monterey Subbasin

County right-of-way on the Southwest side of San Benancio Road, South of the intersection with Deer Run Lane

GPS 36.553944, -121.694162

MONTEREY COUNTY

DEPARTMENT OF HEALTH ENVIRONMENTAL HEALTH BUREAU

1270 Natividad Road Salinas, CA 93906 (831) 755-4507



MONITORING WELL CONSTRUCTION PERMIT

WELL PERMIT: #25-000010 (300-FT)

ISSUANCE DATE: 7/27/2024

EXPIRATION DATE: 7/27/2025

SITE LOCATION: Corral de Tierra Site 7

Lat: 36.557112° N; Long: -121.732590°W

INTENDED USE: GSA Monitoring Well Project

PROPERTY OWNER: County Road Easement

APPLICANT: SVBGSA (Salinas Valley Basin Groundwater Sustainability Agency)

ADDRESS: P.O. Box 1350

PHONE: (831) 277-1807

CITY: Carmel Valley

DRILLING CONTRACTOR: Parks Water Resources LICENSE: 1113206

ISSUED BY:

CHRIETIES VO

Christie T. Vo, REHS

PROJECT DESCRIPTION:

This well permit authorizes the Salinas Valley Basin Groundwater Sustainability Agency (SVBGSA) to install a monitoring well subject to the conditions of approval set forth herein. The project consists of a monitoring well to evaluate hydrological information. The issuance of this permit is exempt from the California Environmental Quality Act pursuant to 14 CCR section 15300.

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- 2. The well shall be at least 100 feet from any septic tank; any portion of any leach field or animal enclosure; 50 feet from any sewer main, line or lateral; and 150 feet from any seepage pit. If type of absorption field is unknown, the distance shall be 150 feet.

- 3. Location of the well shall not prevent the installation, relocation or expansion of the septic system on any adjoining lot.
- 4. Water well permit shall be kept on site at all times while work is in progress.
- 5. The well shall be drilled in the approved location delineated on the attached map, **Exhibit A**. The well cannot be drilled in any other location without prior approval from Monterey County Health Department, Environmental Health Bureau (EHB) and receipt of an amended permit.
- 6. Notify the EHB at least 24 hours prior to moving on site.
- 7. Notify the EHB 24 hours prior to the time you expect to place any seal.
- 8. If the seal(s) cannot be witnessed by the EHB, a detailed, written description of the seal(s) shall be submitted to the EHB within ten days.
- 9. Surface construction features of the completed well shall be in accordance with the California Well Standards Bulletin 74-81 and Bulletin 74-90 Section 10.
- 10. The Owner and Applicant shall defend, indemnify and hold harmless the County and its officers, agents, and employees from and against any and all actions or claims of any description brought on account of approval of this permit or any injury or damages sustained by any person or property resulting from the issuance of the permit or the conduct of the activities authorized under said permit.
- 11. Issuance of this permit to construct a water well does not create, transfer, assign or acknowledge any legal rights to water associated with this property.
- 12. Issuance of this permit to construct a monitoring well does not guarantee that the well can be approved for domestic use.
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END

IN1211269 Paid 7/25/2024

Well Permit #25-000010-(24)



SVBGSA – Monterey Subbasin

County right -of-way on the East side of Corral De Tierra Road, North of the intersection with Markham Lane

GPS 36.557112, -121.732590

STEWART			ELECTR	IC - GA	MMA RA'	Y-TEMP	ER	ATURE LOG				
						St	tewar	t Well Lo	ogging	Se	rvice	
Filing N	0.											
9100,86	01	JVIPANY -		Park	(SI	Nater Resourc	ces					
	WE	ELL -		M-G	WL	2						
	FIE	ELD _		Sali	nas	6						
	ST	ATE		Cali	for	nia	COUN	ΤΥ Μοι	nterey			
	LO	CATION:								DTH	ER SERVICES	3:
										No	ne	
Job No												
1787	SEC:	TWP:	F	RGE:	_	LAT.: 36.6171539	LONG	.: -121.6601	304			
Permaner	t Datum:	Groun	d L	evel		El	ev.:	65	Ft.	Elev	s.: K.B.	Ft.
Log Meas	ured From:	Groun	d L	evel		, <u>0</u> _Ft	. Above	Perm. Datur	n		D.F	Ft.
Drilling Me	easured From	Groun	d L	evel		•					G.L. <u>65</u>	Ft.
Run			One)								
Date		Aug	21,	2024								
Depth-Drille	r		600		Ft		Ft			Ft		Ft
Depth-Logg	er		594		Ft		Ft			Ft		Ft
Top Logged	Interval		9		Ft		Ft			Ft		Ft
Btm Logged	l Interval		594		Ft		Ft			Ft		Ft
Casing-Drill	er		In @		Ft	In @	Ft	In	@	Ft	In @	Ft
Casing - Lo	gger in@Ft	0.4/0	In @	E04		In @	Ft	In	@	Ft 5+	 	Ft
Time On Bo	ottom	0-1/2	1541	<u> </u>						<u> </u>		
Type Fluid i	n Hole	Be	ntor	nite						+		
Density	Viscosity		T									
рН	Fluid Loss				ml		ml		I	nl		ml
Source of S	ample	Lif	t Pu	mp		·					·	
Rm @ Mea. Temp 8.4 @ 75 °F		@	۴	0)	۶F	@	°F				
Rmf @ Mea. Temp 8.3 @ 75 °F		@	°F	0	2	۴	@	°F				
Rmc @ Mea. Temp 5.9 @ °F		@	°F	0)	°F	@	°F				
Source Rmf Rmc Maes												
Rm @ BHT 88 @		°F	@	°F	0	2	°F	@	°F			
Time Since Circ. 1.5 Hr			Hr					Hr				
Max. Rec. T	emp.	01411 0	88		۶F		°F			1	I	۴
Van No.		SWLS-1				I				+		
Witnessed	ry By	<u>Ра</u> т	Bo-	ke						+		
vvitnessed By			rar	r9								

This Eagle Plot Heading Conforms To API RP 31A

ELECTRIC - GAMMA RAY-TEMPERATURE LOG TOOL



ELECTRIC LOG	SPECIFICATIONS:
Diameter	1.73 Inches
Length	8.37 Feet
Weight	21.7 Lbs.
Max. Temp	158° F
Resist. Range	0 - 10,000 ohm-m
Gamma Ray	1.97 inches long x .98 inches diameter
	Scintillation crystal

SPONTANEOUS POTENTIAL LOGS:

SP Logs record potentials or voltages developed between the borehole fluid and the surrounding formation and are representations of lithology and water quality. Recording of SP logs are limited to water-filled or mud-filled open holes.

NORMAL RESISTIIVITY LOGS:

Normal Resistivity Logs record the electrical resistivity of the borehole environment with lower resistivities indicative of clays and higher resistivities being sands and gravels. Normal resistivity logs are affected by bed thickness, Borehole diameter and borehole fluid.

SINGLE POINT RESISTIVITY LOGS:

Single Point Resistivity Logs record the electrical resistance from points within the borehole to an electrical ground at land surface. Single-point resistance logs are useful in the determination of lithology, water quality, and location of fracture zones.

GAMMA RAY LOGS:

Gamma Ray Logs record the amount of natural gamma radiation emitted by the rocks surrounding the borehole. The most significant naturally occurring sources of gamma radiation are potassium 40 and daughter products of the uranium and thorium decay series. Clay and shale bearing rocks commonly emit relatively high gamma radiation because they include weathering products of potassium feldspar and mica and tend to concentrate uranium and thorium by ion absorption and exchange.

TEMPERATURE LOGS:

Temperature Logs record the water temperature in the borehole. Temperature logs are useful for delineating water-bearing zones and identifying vertical flow in the borehole between zones of differing hydraulic head penetrated by wells. Borehole flow between zones is indicated by temperature gradients that are less than the regional geothermal gradient.

TOTAL DISSOLVED SOLIDS

* NaCl

Parts Per Million - ppm



NaCI = Sodium Chloride

NOTICE

All interpretations are opinions based on inferences from electrical and other measurements and we do not guarantee the accuracy or correctness of any verbal or written interpretation, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible for any loss, costs, damages or expenses incurred or sustained by anyone resulting from any interpretation made by one of our officers, agents or employees. These interpretations are also subject to our General Terms and Conditions as set out in our current Price Schedule.

REMARKS

Consulting Company:

S.P Shift Due To Sonde Pulling Tight

Consulting Company: E.L. Montgomery








Log Depth 594'

-	STEV	VART		-	ELECTI	RIC - G/	MMA RAY	-TEMPE	RATURE LOG				
					S	Stewar	t Well Lo	gging S	ervice				
		۰F	Phone:	(530)908-69	928 · Email: STEWAF	TWELLLO	GGING@GMAIL.C	OM					
Filing No		MPANY		Parks	Water Resou	rces							
WELL M-GWL-3 Corral De Tierra													
	FIE	FIELD Salinas											
	ST	STATE California COUNTY Monterey											
	LOCATION: OTHER SERVICES: OTHER SERVICES: None												
Job No. 1846 SEC: <u>10</u> TWP: <u>16S</u> RGE: <u>02E</u> LAT.: <u>36.5571423</u> LONG.: <u>-121.7325379</u>													
Permanen	t Datum:	Grou	nd Le	vel	E	Elev.:	389 F	t. Ele	evs.: K.B	Ft.			
Log Measu	ured From:	Grou	nd Le	vel	, <mark></mark> _	-t. Above	Perm. Datum	ı	D.F	Ft.			
Drilling Me	asured From	Grou	nd Le	vel					G.L. 389	Ft.			
Run			One										
Date		Sep	25, 2	2024									
Depth-Driller	r		600	F	t	Ft		Ft		Ft			
Depth-Logge	er		600	F	t	Ft		Ft		Ft			
Top Logged	Interval		10	F	t	Ft		Ft		Ft			
Btm Logged	Interval		600	F	t .	Ft		Ft		Ft			
Casing-Drille	er		In @	F	t In@	Ft	In @	g Ft	ln @	Ft			
Casing - Log	ger in@Ft	0.75	In @		t in @		in @		in @	Ft			
Time On Bo	ttom	0.75	1545	600 1				<u>y</u> 11					
Type Fluid in	n Hole	Bé	nton	ite									
Density	Viscosity												
pН	Fluid Loss			m	1	ml		ml		ml			
Source of Sa	ample	Li	ft Pur	np					i				
Rm @ Mea.	Temp	8.3	@	75 °F	@	°F	@	°F	@	°F			
Rmf @ Mea	. Temp	8.2	@	75 °F	@	°F	@	°F	@	°F			
Rmc @ Mea	. Temp	5.8	@	°F	@	°F	@	°F	@	°F			
Source Rmf	Rmc	Meas.											
Rm @ BHT		82	@	°F	. @	°F	@	°F	@	°F			
Time Since	Circ.		1	Н	r	Hr		Hr		Hr			
Max. Rec. T	emp.		82.5	°F	· ,	°F	ļ	°F		°F			
Van No. Location SWLS-2 WOODLAND													
Recorded B	/	S	tewa	rt									
Witnessed E	By	Т	.Park	S									

This Eagle Plot Heading Conforms To API RP 31A

ELECTRIC - GAMMA RAY-TEMPERATURE LOG TOOL



ELECTRIC LOG	SPECIFICATIONS:
Diameter	1.73 Inches
Length	8.37 Feet
Weight	21.7 Lbs.
Max. Temp	158° F
Resist. Range	0 - 10,000 ohm-m
Gamma Ray	1.97 inches long x .98 inches diameter
	Scintillation crystal

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SP Logs record potentials or voltages developed between the borehole fluid and the surrounding formation and are representations of lithology and water quality. Recording of SP logs are limited to water-filled or mud-filled open holes.

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TOTAL DISSOLVED SOLIDS

* NaCl

Parts Per Million - ppm



NaCl = Sodium Chloride

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	STEV WELL LOGGI	VART		-		ELECTRI	C - GA	IMMA RAY	-TE m pi	ERATURE LO	IG	
						St	ewar	t Well Log	gging S	Service		
		·P	hone:	(530)908	3-692	28 · Email: STEWART	WELLLOG	GING@GMAIL.CO	DM			
Filing No.	- cc	MPANY		Park	s I	Nater Resourc	es					
WELL M-GWL-4 San Benancio												
	FIELD Salinas											
	STATE California COUNTY Monterey											
LOCATION: 255 San Benancio Rd. X-Y Caliper											ES:	
Job No. 1830 SEC: <u>12</u> TWP: <u>16S</u> RGE: <u>02E</u> LAT.: <u>36.5538294</u> LONG.: <u>-121.6940174</u>												
Permanent Dat	Permanent Datum: Ground Level Elev.: 655 Ft. Elevs.: K.B. Ft.										Ft.	
Log Measured I	From:	Groun	d Le	vel		, <u>0</u> Ft	Above	Perm. Datum		D.F	Ft.	
Drilling Measure	ed From	Groun	d Le	vel						G.L6	5 5 Ft.	
Run			One									
Date		Sep	11, 2	024								
Depth-Driller			340		Ft		Ft		F	t	Ft	
Depth-Logger			340		Ft		Ft		F	t	Ft	
Top Logged Interv	val		10		Ft		Ft		F	t	Ft	
Btm Logged Interv	val		340		Ft		Ft		F	t	Ft	
Casing-Driller			In @		Ft	In @	Ft	In @	e F	t In @	; Ft	
Casing - Logger Ir	n@Ft		In @		Ft	In @	Ft	ln @	9 F	t In @	· Ft	
Bit Size		10-5/8	In @	340	۲t	In @	Ft	In @	! F	t In @	! Ft	
Time On Bottom			1640									
Donsity Viso		Ве	nton	Ite								
nH Flui	dloss		+		ml		ml		m		ml	
Source of Sample		l if	t Pur	nn						1		
Rm @ Mea. Tem	D	89	@	75	°F	0	°F	0	°F	- @	°F	
Rmf @ Mea. Tem	a	8.8	@	75	°F	@	°F	@	°F	- @	°F	
Rmc @ Mea. Temp 6.3 0 °F 0 °F 0 °F								- @	°F			
Source Rmf Rmc Meas.												
Rm @ BHT		93	@		°F	@	°F	@	°F	. @	°F	
Time Since Circ.			1		Hr		Hr		н	r	Hr	
Max. Rec. Temp.			94		°F		°F		°F	:	°F	
Van No. Loca	ation	SWLS-2	2 WC	ODLA	ND							
Recorded By Stewart												
Witnessed By		Т.	Park	s								

This Eagle Plot Heading Conforms To API RP 31A

ELECTRIC - GAMMA RAY-TEMPERATURE LOG TOOL



ELECTRIC LOG	SPECIFICATIONS:
Diameter	1.73 Inches
Length	8.37 Feet
Weight	21.7 Lbs.
Max. Temp	158° F
Resist. Range	0 - 10,000 ohm-m
Gamma Ray	1.97 inches long x .98 inches diameter
	Scintillation crystal

SPONTANEOUS POTENTIAL LOGS:

SP Logs record potentials or voltages developed between the borehole fluid and the surrounding formation and are representations of lithology and water quality. Recording of SP logs are limited to water-filled or mud-filled open holes.

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TEMPERATURE LOGS:

Temperature Logs record the water temperature in the borehole. Temperature logs are useful for delineating water-bearing zones and identifying vertical flow in the borehole between zones of differing hydraulic head penetrated by wells. Borehole flow between zones is indicated by temperature gradients that are less than the regional geothermal gradient.

TOTAL DISSOLVED SOLIDS

* NaCl



Parts Per Million - ppm

TDS Classes

Class 1: Excellent to Good – Less than 700 ppm Class 2: Good to Injurious – 700 to 2000 ppm Class 3: Injurious to Poor – More than 2000 ppm

NaCl = Sodium Chloride

All interpretations are opinions based on inferences from electrical and other measurements and we do not guarantee the accuracy or correctness of any verbal or written interpretation, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible for any loss, costs, damages or expenses incurred or sustained by anyone resulting from any interpretation made by one of our officers, agents or employees. These interpretations are also subject to our General Terms and Conditions as set out in our current Price Schedule.





÷	S	WART	-			4 -A	RM X-Y CAI	IPER I	.OG				
						S	tewar	t Well Log	ging S	Service	Э		
			· Phone	: (530)908-692	28 · Email	STEWAR1	WELLLO	GGING@GMAIL.COM	Л				
F	iling No.			Porke \	Notor	Pacaur							
91	00,8601	w	ELL	M-GWL	2	Nesour	.62						
		 FI	ELD	D Salinas									
		S-	TATE	TE California COUNTY Monterey									
		LC	DCATION:						01 •	THER SE None	ERV	ICES:	
	Job No. 1818 SEC: <u>17</u> TWP: <u>155</u> RGE: <u>03E</u> LAT.: <u>36.6171539</u> LONG.: <u>-121.6601304</u>												
Perm	anent Datu	m:	Ground L	evel		E	ev.:	65 Ft.	El	evs.: K.E	3		Ft.
Log N	leasured F	rom:	Ground L	evel	, -	0 F	. Above	Perm. Datum		D.I	F		Ft.
Drillin	ig Measure	d Fror	n: Ground L	evel				1		G.I	L	65	Ft.
Date			Aug 21,	2024									
Type l	_og		Calip	er									
Run			One	•									
Depth	-Driller		560) Ft			Ft		Ft				Ft
Depth	-Logger		560) Ft			Ft		Ft				Ft
Top Lo	ogged Interva	al	0	Ft			Ft		Ft				Ft
Btm L	ogged Interva	al	560) Ft			Ft		Ft				Ft
Туре Г	Fluid In Hole		Bento	nite									
Fluid	d Level		0	Ft			Ft		Ft				Ft
Max T	emp		88	°F			°F		°F				°F
Opera	ting Rig Time	;	1.5	°Hr			°Hr		°Hr			1	°Hr
Van N	o. Locat	tion	SWLS-1										
Recor	ded By		Stewa	art									
Witne	ssed By		T. Par	ks									
RUN		BC	REHOLE RECC	RD				CASING I	RECORD				
NO.	BIT SIZE	■	FROM	тс)	CASING	SIZE	CASING TYPE	FR	ОМ		ТО	
1	11	In	0 F	^{-t} 56	0 Ft	4.	5 In	PVC	(()	0 Ft		545	Ft
2		In	F	ŧ	Ft		In			Ft			Ft
3		In	F	ŧ	Ft		In			Ft			Ft

4-ARM X-Y CALIPER LOG TOOL



GAMMA RAY LOGS:

Gamma Ray Logs record the amount of natural gamma radiation emitted by the rocks surrounding the borehole. The most significant naturally occurring sources of gamma radiation are potassium 40 and daughter products of the uranium and thorium decay series. Clay and shale bearing rocks commonly emit relatively high gamma radiation because they include weathering products of potassium feldspar and mica and tend to concentrate uranium and thorium by ion absorption and exchange.

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MAGNETIC DEVIATION LOGS:

Magnetic logs are used to determine the inclination and direction of the well bore versus depth. With these three parameters, wellbore drift, bearing, and true vertical depth can be calculated based on any one of five API approved methodologies. The magnetic deviation will function in any non-magnetic wellbore with any type of wellbore fluid.

4 ARM CALIPER SPECIFICATIONS:

Diameter	2.36 Inches
Range	2.95 - 52 Inches
Length	11.5 Feet
Weight	88.18 Lbs.
Max. Temp	158° F
Inclination	0 to 180 Deg., +/- 0.5 Deg.
Azimuth	0 to 360 Deg., +/- 1.5 Deg.
Gamma Ray	1.97 inches long x .98 inches diameter
	Scintillation crystal

VOLUME CALCULATIONS

Annular Volumes Graph

						V	olumes	(Cu.Ft.)				
Casing	Bit	Depths	0 10	00 20	00 3	00 4	0 5	00 6	00 7	8 00	00 90	0 1000
4.5"	11"	0' To 50'	27.5	t³ (1.02 Y	d³)							
4.5"	11"	50' To 475'				36	3 Ft³ (13.	44 Yd³)				
4.5"	11"	475' To 480'	3 Ft ³ (0.	11 Yd³)								
4.5"	11"	480' To 545'	34 Ft	³ (1.26 Yo	3)							
0"	11"	545' To 555'	6 Ft ³ (0.	22 Yd³)								
0"	11"	555' To 560'	2 Ft ³ (0.	07 Yd³)								

Total Annular Volume: 435.5 Ft³ / 16.2 Yds³

Annular Volumes Table

Casing	Bit	Depths	Feet ³	Yards³
4.5"	11"	0' To 50'	27.5 Ft ³	1.02 Yds³
4.5"	11"	50' To 475'	363 Ft ³	13.44 Yds³
4.5"	11"	475' To 480'	3 Ft ³	0.11 Yds³
4.5"	11"	480' To 545'	34 Ft ³	1.26 Yds³
0"	11"	545' To 555'	6 Ft ³	0.22 Yds³
0"	11"	555' To 560'	2 Ft ³	0.07 Yds³
	Tota	I Annular Volume	435.5 Ft ³	16.2 Yds³

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REMARKS

Consulting Company:

S.P Shift Due To Sonde Pulling Tight

Consulting Company: E.L. Montgomery









					4-ARM X-Y CALIPER LOG									
							Stev	var	t Well Log	ging S	ervice	Э		
			۰P	hone: (530)9	08-6928 ·	Email:	stewartw	elllogg	ging@gmail.com					
F	iling No.	С	OMPANY	Parks	Water	Reso	ources	•						
		W	ELL	M-GWI	L-3 Co	rral I	De Tie	rra						
		FI	ELD	Salina	s									
		STATE <u>California</u> COUNTY <u>Monterey</u>												
	LOCATION: Corral De Tierra Rd. & Markham Ln. OTHER SERVICES: E-Log													
	Job No. 1846 SEC: <u>10</u> TWP: <u>16S</u> RGE: <u>02E</u> LAT.: <u>36.5571423</u> LONG.: <u>-121.7325379</u>													
Perm	Permanent Datum: Ground Level Elev.: 389 Ft. Elevs.: K.B. Ft.										Ft.			
Drillir	nd Measured	Fror	n: Ground Le	vel	,·	0		0006			G.I	 L.	389	Ft.
Date	<u> </u>		Oct 08. 2	024										
Туре І	₋og		Calipe	er										
Run			One											
Depth	-Driller		600	Ft				Ft		Ft				Ft
Depth	-Logger		410	Ft				Ft		Ft				Ft
Top L	ogged Interval		0	Ft				Ft		Ft				Ft
Btm L	ogged Interval		410	Ft				Ft		Ft				Ft
Туре І	Fluid In Hole		Benton	ite										
Fluid	d Level		0	Ft				Ft		Ft				Ft
Max T	emp		82.5	۴F				°F		°F				°F
Opera	ting Rig Time		1.5	°Hr				°Hr		°Hr				°Hr
Van N	o. Locatio	n	SWLS-2 WC)									
Witne			Stewa T Pork	rt 'o										
RUN		BC							CASING F	RECORD				
NO.	BIT SIZE		FROM	т)	CAS	SING SI	ΖE	CASING TYPE	FR	OM		то	
1	10.625	In	0 Ft	41	0 Ft		4.5	In	PVC) Ft		395	Ft
2		In	F	:	Ft			In			Ft			Ft
3		In	F	:	Ft			In			Ft			Ft

4-ARM X-Y CALIPER LOG TOOL



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Weight	88.18 Lbs.
Max. Temp	158° F
Inclination	0 to 180 Deg., +/- 0.5 Deg.
Azimuth	0 to 360 Deg., +/- 1.5 Deg.
Gamma Ray	1.97 inches long x .98 inches diameter
	Scintillation crystal

VOLUME CALCULATIONS

Annular Volumes Graph

						V	'olumes	(Cu.Ft.)				
Casing	Bit	Depths	0 1	100 2	00 3	00 4	00 5	00 6	00 7	00 80	00 90	0 1000
4.5"	10.625'	0' To 50'	25.3	Ft³ (0.94 Y	d³)							
4.5"	10.625'	50' To 335'		16	4 Ft ³ (6.0	7 Yd³)						
4.5"	10.625'	335' To 395'	30 F	t ^a (1.11 Yd	³)							
0"	10.625'	395' To 410'	7 Ft³ (0).26 Yd³)								

Total Annular Volume: 226.3 Ft³ / 8.4 Yds³

Annular Volumes Table

Casing Bit		Depths	Feet ³	Yards ³
4.5"	10.625"	0' To 50'	25.3 Ft ³	0.94 Yds³
4.5"	10.625"	50' To 335'	164 Ft ³	6.07 Yds³
4.5"	10.625"	335' To 395'	30 Ft ³	1.11 Yds³
0"	10.625"	395' To 410'	7 Ft ³	0.26 Yds³
	Tota	l Annular Volume	226.3 Ft ³	8.4 Yds³

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Log Depth 410'

STEWART WELL LOGGING SERVICE						4-ARM X-Y CALIPER LOG										
				Stewart Well Logging Service												
			· Phone	: (530)908-69	28 · Email	: STEW	ARTWEL	LLO	GGING@GMAIL.COI	N						
Filing No.				MPANY Parks Water Resources												
		v	/ELL	ELL M-GWL-4 San Benancio												
		F	ELD Salinas													
		s	TATE	ATE Californi				aCOUNTYMonterey								
			OCATION: 255 San Bena							OTHER SERVICES: E-Log						
	Job No. 1830	SEC:	<u>12</u> TWP: <u>16S</u>	RGE: 02E	LAT.: <u>3</u>	6.55382	294	LONG	G.: -121.6940174	_						
Perm	anent Dati	Ground L		Elev.:655Ft. Elevs.: K.B								Ft.				
Log Measured From: Ground Level , 0 Fr								ove	Perm. Datum		D.F	=		Ft.		
Drilling Measured From: Ground Level G.L. 655									655	Ft.						
Date			Sep 11,	2024												
			Calip													
 Depth-Driller			340	Ft			Ft				Ft		Ft			
Depth-Logger			340	Ft			Ft						Ft			
Top Logged Interval			0	Ft			Ft			Ft	t Ft			Ft		
Btm Logged Interval			340) Ft		Ft		Ft					Ft			
Туре Г	-luid In Hole		Bento	nite												
Fluid Level			20	Ft			Ft		:		Ft F			Ft		
Max Temp			94	°F			°F				F °F					
Operating Rig Time			1	°Hr		°Hr			۰۲		°Hr					
Van No. Location		SWLS-2 W	SWLS-2 WOODLAND													
Recorded By			Stew	Stewart												
Witne	ssed By		T.Par	T.Parks												
RUN BO			OREHOLE RECC	REHOLE RECORD					CASING RECOF		RD					
NO.	BIT SIZ	Έ	FROM	тс)	CAS	ING SIZ	Е	CASING TYPE	FR	OM		то			
1	10-5/8	B In	0	^{-t} 34	0 Ft		4	In	PVC		Ft			Ft		
2		In	F	-t	Ft			In			Ft			Ft		
3		In	1	ŧ	Ft			In			Ft			Ft		

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	Scintillation crystal				

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M-ISW-1				
Depth Top (feet bgs)	Depth Bottom (feet bgs)	Hydrogeologic Unit		
0	20	Older Flood Plain Deposits (Oof)		
20	70	Paso Robles Formation (QTc)		
M-GWL-2				
Depth Top (feet bgs)	Depth Bottom (feet bgs)	Hydrogeologic Unit		
0	600	Paso Robles Formation (QTc)		
M-GWL-3				
Depth Top (feet bgs)	Depth Bottom (feet bgs)	Hydrogeologic Unit		
0	30	Alluvial Deposits (Qal)		
30	340	Paso Robles Formation (QTc)		
M-GWL-4				
Depth Top (feet bgs)	Depth Bottom (feet bgs)	Hydrogeologic Unit		
0	20	Older Flood Plain Deposits (Oof)		
20	470	Paso Robles Formation (QTc)		
470	560	Santa Margarita Sandstone (Tsm)		
560	600	Monterey Formation (Tm)		

M-ISW-1		
From (ft bgs)	To (ft bgs)	Lithologic Description
0	10	Top soil, brown, composed of dirt, sand, and gravel, very fine to coarse-grained, poorly sorted, subangular to rounded, dry
10	20	Top soil, grey, composed of dirt, sand, and gravel, very fine to coarse- grained, poorly sorted, subangular to rounded, dry
20	30	Clay with sand, light brown, loose/soft, dry, with very fine-grained, angular to subrounded sand
30	40	Sand with clay, tan, very fine-grained, subangular to subrounded, with minor clay, dry
40	50	Clay with sand, brown, stiff/firm, dry, with very fine-grained, angular to subrounded sand
50	60	Clay with sand, greyish brown, stiff/firm, dry, with very fine-grained, angular to subrounded sand
60	70	Clay with sand, brown, stiff/firm, dry, with very fine-grained, angular to subrounded sand
70	80	Chert, white, hard, dry

M-GWL-2		
From (ft bgs)	To (ft bgs)	Lithologic Description
0	10	sand,tan,medium-coarse grained, moderately sorted, very angular
		sandy clay, tan, medium grained, moderately firm clay, poorly
10	20	sorted, sub angular - subrounded
		sand, tan, medium-coarse grained, poorly sorted, angular-
20	30	subangular
		sandy clay, tan, medium-coarse grained, moderately firm clay,
30	40	moderately sorted, subrounded
		sand, tan, medium-coarse grained, moderately sorted, angular-
40	50	subrounded
		sand, tan, medium-coarse grained, poorly sorted, angular-
50	60	subrounded
		sand, tan, medium-coarse grained, poorly sorted, subangular-
60	70	subrounded
		sand, tan, medium-coarse grained, poorly sorted, subangular-
70	80	subrounded
		sand, tan, medium-coarse grained, poorly sorted, subangular-
80	90	subrounded
	100	sand, tan, medium-coarse grained, poorly sorted, subangular-
90	100	subrounded
100	110	sand, tan, medium-coarse grained, poorly sorted, subangular-
100	110	rounded
110	120	sand, tan, medium-coarse gramed, moderately sorted, subangular-
110	120	subjounded
120	130	sand, tan, medium-coarse gramed, moderately softed, subangular-
120	150	sand tan medium-coarse grained moderately sorted subangular-
130	140	subrounded
150	140	sand tan medium-coarse grained moderately sorted subangular-
140	150	subrounded
		sand, tan, medium-coarse grained, poorly sorted, subangular-
150	160	subrounded
		sand, tan, medium-coarse grained, poorly sorted, subangular-
160	170	subrounded
		sand, tan, medium-coarse grained, poorly sorted, subangular-
170	180	subrounded
180	190	sand, tan, medium-coarse grained, well sorted, angular-subangular
		sand, tan, medium-coarse grained, well sorted, subangular-
190	200	subrounded
		sand, tan, medium-coarse grained, well sorted, subangular-
200	210	subrounded
		sand, tan, medium-coarse grained, moderately sorted, subangular-
210	220	subrounded
		sand, tan, medium-coarse grained, moderately sorted, subangular-
220	230	subrounded
		sand, tan, medium-coarse grained, moderately sorted, subangular-
230	240	subrounded

		sand, tan, medium-coarse grained, moderately sorted, subangular-
240	250	subrounded
		sand, tan, medium-coarse grained, moderately sorted, subangular-
250	260	subrounded
		sand, tan, medium-coarse grained, moderately sorted, subangular-
260	270	subrounded
		sand, tan, medium-coarse grained, moderately sorted, subangular-
270	280	subrounded
		clayey sand, tan, medium-coarse grained, poorly sorted, angular-
280	290	rounded
		clayey sand, tan, medium-coarse grained, poorly sorted,
290	300	subangular-subrounded
		sand, tan, medium-coarse grained, moderately sorted, subangular-
300	310	subrounded
		clayey sand, tan, medium-coarse grained, poorly sorted,
310	320	subangular-subrounded
		clayey sand, tan, medium-coarse grained, poorly sorted,
320	330	subangular-subrounded
		clayey sand, tan, medium-coarse grained, poorly sorted,
330	340	subangular-subrounded
		clayey sand, tan, medium-coarse grained, poorly sorted,
340	350	subangular-subrounded
		clayey sand, tan, medium-coarse grained, poorly sorted,
350	360	subangular-subrounded
		sand, tan, medium-coarse grained, moderately sorted, subangular-
360	370	subrounded
		clayey sand, tan, medium-coarse grained, moderately sorted,
370	380	subangular-subrounded
		sand, tan, medium-coarse grained, moderately sorted, subangular-
380	390	subrounded
		sand, tan, medium-coarse grained, poorly sorted, subangular-
390	400	subrounded
		clayey sand, tan, medium-coarse grained, poorly sorted,
400	410	subangular-subrounded
		clayey sand, tan, medium-coarse grained, poorly sorted,
410	420	subangular-subrounded
		clayey sand, tan, medium-coarse grained, poorly sorted,
420	430	subangular-subrounded
		sand, tan, medium-coarse grained, poorly sorted, subangular-
430	440	subrounded
		sand, tan, medium-coarse grained, poorly sorted, subangular-
440	450	subrounded
		sand, tan, medium-coarse grained, poorly sorted, subangular-
450	460	subrounded
		sand, tan, medium-coarse grained, poorly sorted, subangular-
460	470	subrounded
		sand, tan, medium-coarse grained, poorly sorted, subangular-
470	480	subrounded
		sand, tan, medium-coarse grained, poorly sorted, subangular-
480	490	subrounded

		sand, tan, medium-coarse grained, poorly sorted, subangular-
490	500	subrounded
		sand, tan medium-coarse grained poorly sorted, angular-
500	510	subrounded
		sand, tan medium-coarse grained poorly sorted, angular-
510	520	subrounded
		clayey sand, tan, medium-coarse grained, poorly sorted, angular-
520	530	subrounded
		sand, tan, medium-coarse grained, poorly sorted, angular-
530	540	subounded
		sand, tan, medium-coarse grained, poorly sorted, angular-
540	550	subounded
		sand, tan, medium-coarse grained, poorly sorted, angular-
550	560	subounded
		sand, tan, medium-coarse grained, poorly sorted, angular-
560	570	subounded
		sand, tan, medium-coarse grained, poorly sorted, angular-
570	580	subounded
		clayey sand, tan, medium-coarse grained, poorly sorted, angular-
580	590	subounded
		sand, tan, medium-coarse grained, poorly sorted, angular-
590	600	subrounded

M-GWL-3		
From (ft bgs)	To (ft bgs)	Lithologic Description
0	10	sand,tan,medium-coarse,well sorted, very angular-angular
10	20	sand,tan,medium-coarse,well sorted, very angular-angular
		sandy gravel, medium-coarse grain(sand), moderately sorted, very
20	30	angular-angular, tan
30	40	sand, medium-coarse, moderately sorted, very angular-angular
40	50	sand, tan, fine-coarse, well sorted, very angular-angular
50	60	sand, tan, fine-coarse, moderately sorted, very angular-angular
60	70	sand, tan, fine-coarse, poorly sorted, very angular-angular
		clayey, gravely sand, tan, fine-coarse, moderately sorted,
70	80	subangular-angular
		clayey sand, tan, fine-coarse, moderately sorted, subangular-
80	90	angular
90	100	sand, tan, fine-coarse, moderately sorted, subangualr-angular
		sand, light tan, medium-coarse, well sorted, very angular-
100	110	subangular
		sand, light tan, medium-coarse, well sorted, very angular-
110	120	subangular
		sand, light tan, medium-coarse, moderately sorted, very angular-
120	130	angular
		clayey sand, light tan, medium-coarse, moderately sorted, very
130	140	angular-angular
		clayey sand, light tan, fine-coarse, moderately sorted, very angular-
140	150	angular
		clayey sand, light tan, fine-coarse, moderately sorted, very angular-
150	160	angular
		clayey sand, light tan, fine-coarse, moderately sorted, very angular-
160	170	angular
		sand, light tan, fine-coarse, moderately sorted, very angular-
170	180	angular
		clayey sand, light tan, fine-coarse, well sorted, very angular-
180	190	angular
		sandy clay, tan, sand is fine-coarse grained, very angular-
190	200	subangular, clay - medium plasticity
		clay/sand, tan, sand is fine-coarse grained, very angular-angular,
200	210	clay - low plasticity
		sandy clay, tan, sand is fine-coarse grained, very angular-angular,
210	220	clay - low plasticity
		sandy clay, tan, sand is fine-coarse grained, very angular-angular,
220	230	clay - low plasticity
220	240	sandy clay, tan, sand is fine-coarse grained, very angular-angular,
230	240	ciay - medium plasticity
		sandy clay, tan, sand is tine-medium grained, very angular-angular,
240	250	ciay - iow plasticity
		sandy clay, tan, sand is tine-medium grained, very angular-angular,
250	260	ciay - low plasticity

260	270	clay, tan, low plasticity
270	280	clayey silt, tan
280	290	sandy, clayey silt, sand is fine-medium grained, angular-subangular
		clayey sand, light tan, fine-medium, well sorted, angular-
290	300	subangular
300	310	clayey sand, tan, fine-medium, well sorted, angular-subangular
310	320	clayey sand, tan, fine-coarse, well sorted, angular-subangular
320	330	clayey sand, tan, fine-coarse, well sorted, angular-subangular
330	340	sandy clay, tan, soft/runny clay

M-GWL-4		
From (ft bgs)	To (ft bgs)	Lithologic Description
		sand, tan/grey, fine-coarse grained, well sorted, very angular-
0	10	angular
		sand, tan/grey, fine-coarse grained, well sorted, very angular-
10	20	angular
		clayey sand, dark brown/tan, fine-coarse grained, poorly sorted,
20	30	very angular-angular
30	40	sandy clay, dark brown/tan, soft
40	50	sandy clay, grey, soft, abundant chert, minimal quartz
50	60	sandy,clayey silt, grey
		sand, grey, fine-coarse grained, moderately sorted, very angular-
60	70	subrounded
		clayey sand, grey, fine-coarse grained, moderately sorted, very
70	80	angular-subrounded
		clayey sand, grey, fine-coarse grained,moderately sorted, very
80	90	angular-subrounded
90	100	sandy clay, grey, firm
100	110	sandy clay, grey, firm
		gravely sand, dark grey, fine-coarse grained, moderately sorted,
110	120	very angular-subrounded
		gravely sand, dark grey, fine-coarse grained, moderately sorted,
120	130	very angular-subrounded
130	140	clay, dark grey, very firm
140	150	clay, dark grey, firm
		clayey sand, grey/tan, fine-coarse grained, well sorted, very
150	160	angular-subrounded
160	170	sandy clay, grey/tan, firm
		clayey sand, dark grey, fine-coarse, moderately sorted, very
170	180	angular-subrounded
		clayey sand, tan/grey, fine-coarse grained, moderately sorted, very
180	190	angular-subrounded
190	200	sandy clay, dark grey, soft
		clayey sand, black/dark grey, fine-coarse grained, moderately
200	210	sorted, very angular-angular
		clayey sand, grey, fine-coarse grained, poorly sorted, very angular-
210	220	angular
220	230	clay, grey, soft/runny
230	240	clay, grey, soft
240	250	clay, grey, soft
250	260	sand, grey, fine-coarse grained, poorly sorted, very angular
260	270	sand, grey, fine-coarse grained, poorly sorted, very angular
270	280	sand, grey, fine-coarse grained, moderately sorted, very angular
		clayey sand, grey, fine-medium grained, moderately sorted, very
280	290	angular-angular
-		sand, grey, fine-coarse grained, moderately sorted, very angular-
290	300	angular
		clayey sand, grey, fine-coarse grained, moderately sorted, very
300	310	angular

		clayey sand, tan, fine-coarse grained, moderately sorted, very		
310	320	angular		
		sand, light tan, fine-coarse grained, moderately sorted, very		
320	330	angular		
330	340	sand silt, grey		
340	350	clayey, sandy, silt, grey		
		sandy silt, grey sand is fine		
350	360	grained, well sorted, subrounded, abundant quartz		
		sand, light tan/white, fine-medium grained, very well sorted,		
360	370	subrounded		
		sand, light tan/white, fine-medium grained, very well sorted,		
370	380	subrounded		
		sand, light tan/white, fine-medium grained, very well sorted,		
380	390	subrounded		
390	400	silt, grey		
400	410	clay, grey, soft		
	100	sand, light tan/white, fine-medium grained, very well sorted,		
410	420	subrounded, abundant quartz		
420	420	sand, light tan/white, fine-medium grained, very well sorted,		
420	430	subrounded, abundant quartz		
420	140	sand, white, fine-medium grained, well sorted, subrounded-		
430	440	subangular, abundant quartz		
440	450	sand, while, me-medium gramed, wen sorted, subrounded-		
440	450	subaliguial, abultualit qualiz		
450	460	sand, dark grey, while, me-medium gramed, wen sorred,		
		silty sand dark grey/white fine-coarse grained moderately sorted		
460	470	subrounded-subangular		
		sand, grey, fine-medium grained, mostly fine grained, well sorted.		
470	480	angular-subangular		
		sand, grev, fine-medium grained, mostly fine grained, well sorted.		
480	490	angular-subangular		
490	500	sand, grey, fine grained, very well sorted, angular		
		sand, grey, fine-medium grained, mostly fine grained, well sorted,		
500	510	angular-subangular		
510	520	sand, grey, fine grained, very well sorted, subangular		
		sand, light tan, fine grained, well sorted, angular-subangular,		
520	530	abundant feldspars and quartz		
		sand, light tan, fine grained, well sorted, subangular, abundant		
530	540	feldspars and quartz		
		sand, light tan, fine grained, well sorted, subangular-subrounded,		
540	550	abundant feldspars and quartz		
550	560	clay, grey, soft		
		sand, dark grey, fine-coarse grained, moderately sorted, very		
560	570	angular, indurated sandstone		
		clayey sand, dark grey, fine-coarse grained, poorly sorted, very		
570	580	angular, indurated sandstone		
580	590	clay, dark grey, soft		
590	600	sandy clay, dark grey, soft		

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	10-10		210-22		410 -42	READ	
	20-30		220. 220		120 - 430	A CONTRACTOR	-
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	40-50		240-250		NO -450	THE E	
	50-60		250-260		50-460		-10-2-
2	60-70		260-270		60-470		
	70-80		270-280	COLOR MAN	20-480		
	80 - 90		280-290	CEN	480 - 490		
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1. A.	140 - 150		340 - 350		540-550		
	150 - 160		350 - 369		560		
	160 - 170		360-370		550 - 570		
a le marte	170-180		370-380	MARCHARA	370-580		S. S. S.
	180-190		380-310		190-590		
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1 and 200-210 0-10 210-220 M-GWL-3 10 - 20 220 - 230 20 - 30 230 - 240 30 - 40 240-250 40-50 250 - 260 50-60 260-270 60 - 70 270 - 280 70-80 80 - 290 30-90 290 - 300 90 - 100 300 - 310 100 - 110 310-320 110 - 120 320 - 330 120-130 330 - 340 130 - 140 340 -350 140-150 350-360 150-160 360 - 370 160-170 370 - 380 170 - 180 380-390 180-190 390-400 190 - 200 ALC: N 20-16



M-GWL-4



200-210 210 - 220 120 - 230 230 - 240 240-250 150 - 260 160 - 270 20.230 1.80-290 90 . 300 00 - 310 310-320 520 - 330 130 - 340 540-350 350-360 \$60 - 370 570 - 380 **GU - 390** 590 - 400









M-GWL-2 Well Design - FINAL FOR CONSTRUCTION

ASSOCIATES Weter Resource Consultance August 23, 2024

Client: Salinas Valley Basin GSA Driller: Parks Water Resources Method: Direct Mud Rotary





M-GWL-4 Well Design - FINAL FOR CONSTRUCTION

Client: Salinas Valley Basin GSA Driller: Parks Water Resources Method: Direct Mud Rotary

650

Spontaneous Potential (mV) RSN 16 (Ohm-m) DEPTH (feet, bgs) M-GWL-4 350 375 400 425 450 0 25 50 75 100 Well Design Gamma-Ray (GAPI) RLN 64 (Ohm-m) Ö 50 100 150 200 0 25 50 100 75 . 0 Above Grade Well Completion (not shown) Neat Cement with 2% Bentonite Sanitary Seal (0 to 50 feet bgs) 50-100 10.625-inch Diameter Borehole (0 to 410 feet bgs) 150-4-inch Schedule 80 PVC Flush-Threaded Well Casing (0 to 350 feet bgs) 200-High Solids Powdered Bentonite Grout (50 to 335 feet bgs) **Centralizers to be placed top and bottom of screen and every 80-feet to in blank section. 250-300-Hydrated Bentonite Tablets (335 to 340 feet bas) 350 4-inch Schedule 80 PVC Flush-Threaded Well Screen, 0.040-inch Machine Slots (350 to 390 feet bgs) -- 8 by 16 Filter Media (340 to 405 feet bgs) 4-inch Schedule 80 PVC Flush-Threaded Well 400-Cellar (390 to 395 feet bgs) Hydrated Bentonite Tablets (405 to 410 feet bas) Total Ream Depth (410 feet bgs) 450-500-8.75-inch Diameter Borehole (410-600 feet bgs) 550--Native Fill 600-- Total Dnlled Depth (600 feet bgs)

MONTGOMERY & ASSOCIATES

September 27, 2024

State of California Well Completion Report Form DWR 188 Submitted 12/3/2024 WCR2024-012665

Owner's W	Vell Numb	er M-ISW-1		Date Work B	Began	08/08/2024	Date Work Ended 08/09/2024
Local Perr	mit Agenc	y Environmental Healt	h Services of Mor	nterey County			
Secondary	y Permit A	gency		Permit N	lumber	25-000011	Permit Date 07/27/2024
Well O)wner (must remain con	fidential pur	suant to V	Nater	Code 137	52) Planned Use and Activity
Name :	SALINAS	VALLEY BASIN GROUN	D WATER SUST	AINABLE AGE	NCY,		Activity New Well
Mailing A	ddress	PO Box 1350				201 - 11	Planned Line Manitaring
		a de la contraction de				1	
City Ca	rmel Valle	y		State (CA	Zip 93924	and the second sec
	eren a	and the second second	and and the	Well	Loca	tion	
Address	18987	Portola Dr.					APN SEA25-000011
City S	alinas	Contraction of the	Zip 93908	County	Monte	rey	Township 15 S
Latitude	36	37 24.5999	N Longitude	-121	41	4.5887 W	Range 03 E
	Deg.	Min. Sec.		Deg.	Min.	Sec.	Section 18
Dec. Lat.	36.623	5	Dec. Long	121.6846	08	- 19-1	Baseline Meridian Mount Diablo
Vertical D	atum	La Serie Lata La A	Horizontal Da	tum WGS84	4	dis dia an	Elevation Accuracy
Location	Accuracy	L	cation Determina	tion	4	122	Elevation Determination Method
		M	ethod		-	The star	
Are 3	Non	Borehole Infor	mation	and and		Water	Level and Yield of Completed Well
Orientatio	on Verti	cal	Spe	cify	1	Depth to first wa	ter (Feet below surface)
Drilling M	ethod A	uger D	rilling Fluid None	o toat -151	- 0	Depth to Static	
Brinning int	-			100.00	- I V	Vater Level	(Feet) Date Measured
Total Dep	th of Bori	ng 75	Feet			Estimated Yield	(GPM) Test Type
Total Dep	oth of Com	pleted Well 70	Feet	F 100 20 2	1.	May not be ren	(received of a well's long term yield
and have		the restaurant		,		may not be rep	
E and	VERY		and the second sec	Seologic L	.og -	Free Form	
Depth 1 Surfa Feet to	from ace Feet	spate after grow P	Vi	and points	nie St	Description	
0	20	Sand w/Gravel	and the second	and the second	17 1	15	
20	30	Sandy Clay					
30	40	Clay Sand					
40	70	Sandy Clay		The Astron			
70	75	Silt Stone		ALL A	1000	1.4	

Casings										
Casing #	Depth fro	m Surface o Feet	Casing Type	Material	Casings Specificatons	Wall Thickness (inches)	Outside Diameter (inches)	Screen Type	Slot Size if any (inches)	Description
1	0	15	Blank	PVC	N/A	0.218	2		1.3	PVC SCH 80
2	15	65	Screen	PVC	N/A	0.218	2	Milled Slots	0.04	PVC SCH 80
3	65	70	Blank	PVC	N/A	0.218	2			PVC SCH 80

00.5	Annular Material										
Depth Sur Feet	from face to Feet	Fill	Fill Type Details	Filter Pack Size	Description						
0	10	Cement	Portland Cement/Neat Cement	and the second second	and the second s						
10	13	Bentonite	Other Bentonite	R.	Tablets						
13	75	Filter Pack	Other Gravel Pack	and the second s	SRI#8						

Other Observations:

10-12	Borehole Specifications										
Depth Surf Feet to	from ace Feet	Borehole Diameter (inches)									
0	15	8									
15	65	8									
65	75	8									

101211	Certific	cation §	Statement		with the							
I, the unders	igned, certify that this report is com	plete and acc	curate to the best of n	ny knowledge a	and belief							
Name	PARKS WATER RESOURCES LLC											
	Person, Firm or Corporat	tion	1. 1. 1. 1. 1. 1.		the set of							
	P O BOX 494	-	ZAMORA	CA	95698							
	Address	611.8.191	City	State	Zip							
Signed	electronic signature re	ceived	12/04/2024	1113206								
PR 12	C-57 Licensed Water Well C	Contractor	Date Signed	C-57 Lice	C-57 License Number							
Alter Mar	DV	VR Use	Only									
CSG #	State Well Number	S	ite Code	Local W	ell Number							
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diret il treme	a surprise a surprise of the	N			VV I							
La	titude Deg/Min/Sec		Longitud	e Deg/Mi	n/Sec							
TRS:												

State of California Well Completion Report Form DWR 188 In Review 11/27/2024 WCR2024-008387

Local Permit Agency Environmental Health Services of Monterry County Secondary Permit Names Secondary Permit Names Secondary Permit Names Secondary Permit Names Secondary Secondary Secondary Permit Date Secondary	Local Permit Agency Environmental Health Services of Monterey County Secondary Permit Agency Permit Number 25 Well Owner (must remain confidential pursuant to Water Construction 25 Name SALINAS VALLEY BASIN GROUND WATER SUSTAINABLE AGENCY, Mailing Address PO Box 1350 City Carmel Valley State Ca. Zip Well Location Kell Location Monterey Address 132 River Rd. Vell Location Monterey Latitude 36 37 1.4556 N Longitude -121 39 35 Deg. Min. Sec. Deg. Min. Sec. Deg. Min. Sec. Dec. Lat. 36.617071 Dec. Location Sec. Sec. <th>-000012 (600FT) Permit Date 07/27/2024 nde 13752) Planned Use and Activity Activity New Well Planned Use Monitoring</th>	-000012 (600FT) Permit Date 07/27/2024 nde 13752) Planned Use and Activity Activity New Well Planned Use Monitoring
Secondary Parmit Agency Permit Number 25:00012 (600FT) Permit Date 07/27/2024 Well Owner (must remain confidential pursuant to Water Code 13752) Planned Use and Activity Name SALINAS VALLEY BASIN GROUND WATER SUSTAINABLE AGENCY. Activity New Well Mailing Address PO Box 1350 Point Date Monitoring City Cammel Valley State Ca. Zip 93924 Address 132 River Rd. APN SEA25-000012 Monitoring City Salinas Zip 93908 County Montrery Range O3 E Latitude 36 37 1.4555 N Longlinde -121 39 35.8128 W Dec. Jastinas Jastinas County Montrery Bestime Median Mount Diabio Christian Weital Datum WGS4 Elevation Accuracy Elevation Acuracy Location Datarmination Weital Datum WGS4 Elevation Acuracy Elevation Acuracy Drilling Method Direct Rotary Drilling Fuid <th>Secondary Permit Agency Permit Number 25 Well Owner (must remain confidential pursuant to Water Constrained and the second and</th> <th>Permit Date 07/27/2024 Ode 13752) Planned Use and Activity Activity New Well Planned Use Monitoring</th>	Secondary Permit Agency Permit Number 25 Well Owner (must remain confidential pursuant to Water Constrained and the second and	Permit Date 07/27/2024 Ode 13752) Planned Use and Activity Activity New Well Planned Use Monitoring
Well Owner (must remain confidential pursuant to Water Code 13752) Name SALINAS VALLEY BASIN GROUND WATER SUSTAINABLE AGENCY. Mailing Address PO Box 1380 Well Location City Carmel Velley State Ca. Zip 93924 Well Location Address 132 River Rd. APN SEA25-000012 Tormahip 15 S Deg. Min. Sec. Deg. Min. Sec. Deg. Min. Sec. Des. Lat. 36,617071 Dec. Long121.659948 Grouphy Monterey Min. Sec. Deg. Min. Sec. Dec. Lat. 36,617071 Dec. Long121.659948 Grouph Sec. Borehole Information Weised Gene County WidS84 Elevation Accuracy Location Determination Weised County WidS84 Elevation Accuracy Determination Method Difting Fluid Bentmination Determation Geologic Log - Free Form	Well Owner (must remain confidential pursuant to Water Construction of the second state of the second s	Planned Use and Activity Activity New Well Planned Use Monitoring
Name SALLIAS VALLEY BASIN GROUND WATER SUSTAINABLE AGENCY, Activity New Well Mailing Address PO Box 1350 PO Box 1350 Po Box 1350 Po Box 1350 City Carmel Valley State Ca. Zip State Apr SEA25-000012 Township Township 15 S County Monterey Township Township Section 20 Bose Main Sec Deg. Min. Sec. Baseline Mindfalla Mount Diablo Bose Long - 121.659948 Ground Surface Elevation Vertical Datum Horizontal Datum WGS84 Elevation Accuracy Baseline Mindfalla Mount Diablo Location Accuracy Location Determination Elevation Determination Method Orientation Vertical Specify Diable Baseline Mindfalla Mount Diablo Disting 600 Feet Feet (Feet balow surface) Dight to Static (Feet) Date Measured Elevation Determination Method County Drilling Fluid Benden Mindfalla Mount Diablo Elevation Accuracy Elevation Determination Method Elevation Deter	SALINAS VALLEY BASIN GROUND WATER SUSTAINABLE AGENCY, Mailing Address PO Box 1350 City Carmel Valley State Ca. Zip Well Location Well Location Address 132 River Rd. Zip 93908 County Monterey Latitude 36 37 1.4556 N Longitude -121 39 35 Deg. Min. Sec. Deg. Min. 35 Dec. Lat. 36.617071 Dec. Long. -121.659948 Vertical Datum WGS84 Location Accuracy Location Determination Method Depth Depth Drilling Method Direct Retary Drilling Fluid Bentonite Depth	Activity New Well Planned Use Monitoring
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Location Accuracy Location Determination Elevation Determination Method Elevation Accuracy Location Determination Elevation Determination Method Orientation Vertical Specify Depth to first water (Feet below surface) Drilling Method Direct Rotary Drilling Fluid Bentonite Depth to first water (Feet) Date Measured Total Depth of Boring 600 Feet Feet Estimated Yield* (GPM) Test Type Test Length (Hours) Total Drawdown (feet) Total Depth of Completed Well 545 Feet Feet Estimated Yield* (GPM) Test Type Test Length (Hours) Total Drawdown (feet) Total Depth of Completed Well 545 Feet Description Secription Secription Secription 0 5 Coarse Description Secription Secription 25 30 Coarse Sand Secret S	Borehole Information Depth Orientation Vertical Specify Depth Drilling Method Direct Rotary Drilling Fluid Bentonite Depth	Elevation Accuracy
Borehole Information Water Level and Yield of Completed Well Orientation Vertical Specify Drilling Method Direct Rotary Drilling Fluid Bentonite Total Depth of Boring 600 Feet Feet Total Depth of Completed Well 545 Feet Geologic Log - Free Form Geologic Log - Free Form Description Description 0 5 Coarse Surface Feet to Feet Description 0 5 Coarse 3 62 Sandy Brown Clay 25 30 Coarse Sand 33 52 Sandy Brown Clay 40 150 Sandy Clay 52 130 Coarse Sand 33 52 Sandy Brown Clay 52 130 Coarse Sand 130 140 Coarse Sand W/Coral Layers 140 150 Sandy Clay 150 170 Coarse Sand W/Cravel Layers	Borehole Information Depti Orientation Vertical Specify Depti Drilling Method Direct Botany Drilling Eluid Bentonite	Elevation Determination Method
Borehole Information Water Level and Yield of Completed Well Orientation Vertical Specify Drilling Method Direct Rotary Drilling Fluid Bentonite Bentonite Depth to first water (Feet below surface) Total Depth of Boring 600 Feet (Feet) Date Measured Total Depth of Completed Well 545 Feet Feet Test Level (GPM) Test Type Total Depth of Completed Well 545 Feet Feet Test Length (Hours) Total Drawdown (feet) Way not be representative of a well's long term yield. May not be representative of a well's long term yield. May not be representative of a well's long term yield. 0 5 Coarse Depth from Surface Description 25 30 Coarse Sand Surface Surface Surface 31 52 Sandy Brown Clay Sandy Brown Clay Surface Surface 33 52 Sandy Worw Clay Surface Surface Surface 33 52	Borehole Information Depth Orientation Vertical Specify Depth Drilling Method Direct Rotary Drilling Fluid Bentonite	
Orientation Vertical Specify Drilling Method Direct Rotary Drilling Fluid Bentonite Bentonite Total Depth of Boring 600 Feet Feet Total Depth of Completed Well 545 Feet Feet Bentonite Geologic Log - Free Form Berth from Surface Surface Feet Feet Description	Orientation Vertical Specify Depti Drilling Method Direct Rotary Drilling Fluid Bentonite	Water Level and Yield of Completed Well
Drilling Method Direct Rotary Drilling Fluid Bentonite Depth to Static Total Depth of Boring 600 Feet Feet Feet Estimated Yield* (GPM) Test Type Total Depth of Completed Well 545 Feet Feet Test Length (Hours) Total Drawdown (feet) Depth from Surface Feet to Feet Depth from Surface Feet to Feet Coarse 0 5 Coarse 5 10 Sandy Brown Clay 10 25 Brown Clay 25 30 Coarse Sand 33 52 Sandy Brown Clay 52 130 Coarse Sand 33 52 Sandy Brown Clay 140 150 Sandy Clay 150 170 Coarse Sand 140 150 Sandy Clay	Drilling Method Direct Rotary Drilling Fluid Bentonite	h to first water (Feet below surface)
Total Depth of Boring 600 Feet Total Depth of Completed Well 545 Feet Total Depth of Completed Well 545 Feet Geologic Log - Free Form Depth from Surface Feet to Feet 0 5 Coarse 5 10 Sandy Brown Clay 10 25 Brown Clay 25 30 Coarse Sand 30 33 Brown Rock 33 52 Sandy Brown Clay 10 Coarse Sand Coarse Sand 30 140 Coarse Sand 130 140 Coarse Sand 140 150 Sandy Clay 150 170 Coarse Sand 150 170 Coarse Sand W/Gravel Layers		n to Static
Total Depth of Boring 600 Feet Feet Test Length (GPM) Test Type Total Depth of Completed Well 545 Feet Test Length (Hours) Total Drawdown (feet) May not be representative of a well's long term yield. Geologic Log - Free Form Description 0 5 Coarse Description 0 5 Coarse Description 25 30 Coarse Sand 25 30 33 Brown Clay 25 52 130 Coarse Sand 25 130 140 Coarse Sand 25 130 140 Coarse Sand 25 130 140 Coarse Sand 25 150 Sendy Clay 205 Sandy WGrave Layers 150 170 Coarse Sand w/Grave Layers 270	Wate	r Level (Feet) Date Measured
Total Depth of Completed Well 545 Feet Test Length (notis) Total Drawdown (reet) (May not be representative of a well's long term yield. Geologic Log - Free Form Depth from Surface Feet to Feet Description 0 5 Coarse 5 10 Sandy Brown Clay 10 25 Brown Clay 25 30 Coarse Sand 30 33 Brown Rock 33 52 Sandy Brown Clay 52 130 Coarse Sand 130 140 Coarse Sand 140 150 Sandy Clay 150 Sandy Clay 150 Sandy Clay 150 Sandy Clay	Total Depth of Boring 600 Feet	lated Yield* (GPM) Test Type
Geologic Log - Free Form Depth from Surface Feet to Feet Description 0 5 Coarse 5 10 Sandy Brown Clay 10 25 Brown Clay 25 30 Coarse Sand 30 33 Brown Rock 33 52 Sandy Brown Clay 52 130 Coarse Sand 130 140 Coarse Sand 140 150 Sandy Clay 150 170 Coarse Sand w/Gravel Layers 1400 150 Sandy Clay	Total Depth of Completed Well 545 Feet *May	not be representative of a well's long term yield.
Depth from Surface Feet to Feet Description 0 5 Coarse 5 10 Sandy Brown Clay 10 25 Brown Clay 25 30 Coarse Sand 30 33 Brown Rock 33 52 Sandy Brown Clay 52 130 Coarse Sand 30 33 Brown Rock 33 52 Sandy Brown Clay 52 130 Coarse Sand 140 Coarse Sand 140 150 Sandy Clay 150 170 Coarse Sand w/Gravel Layers	Goologic Log - Fra	Form
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25 30 Coarse Sand 30 33 Brown Rock 33 52 Sandy Brown Clay 52 130 Coarse Sand w/Cobbles 130 140 Coarse Sand 140 150 Sandy Clay 150 170 Coarse Sand w/Gravel Layers	10 25 Brown Clay	and the second sec
30 33 Brown Rock 33 52 Sandy Brown Clay 52 130 Coarse Sand w/Cobbles 130 140 Coarse Sand 140 150 Sandy Clay 150 170 Coarse Sand w/Gravel Layers 120 205 Sandy Clay	25 30 Coarse Sand	
33 52 Sandy Brown Clay 52 130 Coarse Sand w/Cobbles 130 140 Coarse Sand 140 150 Sandy Clay 150 170 Coarse Sand w/Gravel Layers 120 205 Sandy Clay	30 33 Brown Rock	
52 130 Coarse Sand w/Cobbles 130 140 Coarse Sand 140 150 Sandy Clay 150 170 Coarse Sand w/Gravel Layers 170 205 Sandy Coarse to Fine	33 52 Sandy Brown Clay	
130 140 Coarse Sand 140 150 Sandy Clay 150 170 Coarse Sand w/Gravel Layers 170 205 Sandy Coarse to Fine	52 130 Coarse Sand w/Cobbles	
140 150 Sandy Clay 150 170 Coarse Sand w/Gravel Layers 170 205 Sanda Coarse to Fine	130 140 Coarse Sand	
150 170 Coarse Sand w/Gravel Layers	140 150 Sandy Clay	
470 205 Sand - Coarso to Fine	150 170 Coarse Sand w/Gravel Layers	
	170 205 Sand - Coarse to Fine	
205 270 Sand w/Layered Hard Streaks	205 270 Sand w/Layered Hard Streaks	
270 280 Gravel	270 280 Gravel	
	280 290 Fine Gravel w/Clay	

Form DWR 188 rev. 12/19/2017

No

290	300	Fine to Medium Sand
300	314	Medium Gravel
314	320	Large Gravel
320	326	Brown Clay
326	330	Mixed Gravel
330	372	Cemented Sand
372	420	Mixed Gravel
420	435	Gravel w/Thin Clay Layers
435	465	Cemented Medium Gravel
465	495	Mixed Medium Gravel
495	505	Large Gravel and Sand
505	560	Fine Gravel and Coarse Sand
560	582	Coarse Sand w/Clay Lenses
582	600	Coarse Sand & Fine Gravel

ALT.A	Casings												
Casing #	asing Depth from Surface # Feet to Feet		Casing Type	Material	Casings Specifications	Wall Thickness (inches)	Outside Diameter (inches)	Screen Type	Slot Size If any (inches)	Description			
1	0	490	Blank	PVC	N/A	0.337	4			SCH 80			
2	490	540	Screen	PVC	N/A	0.337	4	Milled Slots	0.04	SCH 80			
3	540	545	Blank	PVC	N/A	0.337	4			SCH 80			

Same	Annular Material										
Depth Sur Feet to	from face o Feet	Fill	Fill Type Details	Filter Pack Size	Description						
0	50	Cement	Other Cement		2% Bentonite						
50	475	Bentonite	Other Bentonite		High Solid Grout						
475	480	Bentonite	Other Bentonite		Tablets						
480	555	Filter Pack	Other Gravel Pack		SRI#8						
555	560	Bentonite	Other Bentonite		Tablets						
560	600	Other Fill	See description.		Native Fill						

Other Observations:

	E	Borehole Specifications		Certification Statement							
Depth from Surface Borehole Dlameter (inches)			I, the undersigned, certify that this report is complete and accurate to the best of my knowledge and belief Name PARKS WATER RESOURCES LLC								
0	490	10.625		Person,	Firm or Cor	poration	ZAMORA	CA	05608		
490	540	10.625	-	FUI	BUX 494	-	City	Ctata	30030		
540	600	10.625	Signed	Ac	Idress			State	2/p		
			Signed	C-57 Licensed Water Well Contractor		Well Contractor	Date Signed	C-57 License Number			
			DWR Use Only								
			CSG #	State	Well Numb	er s	Site Code	Local W	ell Numbe		
					T	N			w		
			La TRS:	titude l	Deg/Min/S	lec	Longitude	e Deg/Mi	in/Sec		

APN:

State of California Well Completion Report Form DWR 188 In Review 2/4/2025 WCR2024-012462

Owner's Well Nur	nber M-GWL-3	Date Work Began 09/10/2024	Date Work Ended 09/12/2024
Local Permit Age	ncy Environmental Health Services of Mo	nterey County	
Secondary Permi	t Agency	Permit Number 25-000013	Permit Date 07/24/2024
Well Owner	(must remain confidential pu	rsuant to Water Code 137	52) Planned Use and Activity
Name SALINA	S VALLEY BASIN GROUND WATER SUST	AINABLE AGENCY,	Activity New Well
Mailing Address	PO Box 1350		Planned Use Monitoring
City Carmel Va	ifey	State Ca Zip 93924	
		Well Location	
Address 0 Sa	n Benancio		APN SEA25-000013
City Salinas	Zip 93908	County Monterey	Township 16 S
Latitude 36	33 14.1984 N Longitude	-121 41 38.9832 W	Range 02 E
Deg.	Min. Sec.	Deg. Min. Sec.	Section 12
Dec. Lat. 36.55	3944 Dec. Lon	g121.694162	Ground Surface Elevation
Vertical Datum	Horizontal Da	tum WGS84	Elevation Accuracy
Location Accurac	y Location Determina	ation	Elevation Determination Method
1. Alexandro - 1. Ale	Method		
	Borehole Information	Water	r Level and Yield of Completed Well
Orientation Ve	rtical Sp	ecify Depth to first wa	ater (Feet below surface)
Drilling Method	Direct Rotary Drilling Fluid Ben	tonite Depth to Static	
		Water Level	(Feet) Date Measured
Total Depth of Be	oring 340 Fee	t Estimated Yield	(GPM) Test Type
Total Depth of Co	ompleted Well 330 Fee	t "May not be rep	presentative of a well's long term yield.
		Geologic Log - Free Form	
Depth from Surface Feet to Feet		Description	5 e
0 2	Hard Pan		
2 18	Cemented Sand/Rock		
18 28	Sand-Fine to Medium		
28 32	Cobbles		
32 70	Cemented Sand (Hard)		
70 73	Sandstone - Hard		
73 95	Sandstone w/White Sand		
95 105	Hard Sandstone		
105 120	Weathered Sand		
120 150	Broken Sandstone		
150 153	Hard Layer		
153 154	Hard Sand & Gravel		
154 160	Broken Sandstone		
160 164	Hard Layer		

164	166	Broken Rock
166	172	Hard Sandstone
172	192	Sandstone
192	205	Hard Brown Clay
205	280	Hard White Slit
280	322	Brown/Tan Clay
322	340	Brown/Tan clay

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	300	Blank	PVC	N/A	0.337	.4			PVC SCH 80	
2	300	325	Screen	PVC	N/A	0.337	4	Milled Slots	0.04	PVC SCH 80	
3	325	330	Blank	PVC	N/A	0.337	4	1.1		PVC SCH 80	

	Annular Material											
Depth Surf	from lace Feet	Fill	Fill Type Details	Filter Pack Size	Description							
0	50	Cement	Other Cement		2% Bentonite							
50	285	Beritonite	High Solids									
285	290	Bentonite	Other Bentonite		Tablets							
290	340	Filter Pack	Other Gravel Pack		SRI#8							

Other Observations:

	E	lorehole Specifications	Certification Statement						
Depth Surf	from ace Feel	Borehole Diameter (inches)	1. the under Name	signed, certify that this report is complete PARKS W	and accurate to the best of ATER RESOURCES	ny knowlidige i LLC	and ballet		
0	300	10.625		Person, Firm or Corporation					
300	325	10.625		P O BOX 494	ZAMORA	CA	95698		
325	340	10.625		Address	City	State	Zip		
	-		Signed	electronic signature recei	ved 11/27/2024	- 11	13206		
				C-57 Licensed Water Well Cont	ractor Date Signed	C-57 Lic	ense Number		
			DWR Use Only						
			CSG #	State Well Number	Site Code	Local W	ell Number		

		D	WR U	se O	nly		
CSG #	State W	ell Number	1.	Site (Code	Loca	i Well Nu
1	12	1	N			1	1
Lat	itude De	g/Min/Sec		11	Longitu	de Deg	Min/Se
TRS:							
APN:							

W

State of California Well Completion Report Form DWR 188 In Review 2/4/2025 WCR2024-012581

Owner's W	ell Numb	ber M-GWL-4 Da	ate Work Begar	n 09/23/2024	Date Work Ended 09/26/2024
Local Perm	nit Agenc	Environmental Health Services of Montere	ey County		
Secondary	Permit A	Agency	Permit Numbr	er 25-000010	Permit Date 07/27/2024
Well O	wner ((must remain confidential pursu	ant to Wate	er Code 1375	2) Planned Use and Activity
Name S	SALINAS	VALLEY BASIN GROUND WATER SUSTAINA	ABLE AGENCY	1	Activity New Well
Mailing Ad	Idress	PO Box 1350			Planned Use Monitoring
City Car	mel Valle	ау	State Ca	Zip 93924	
			Well Loc	cation	
Address	0 Corra	al De Tierra			APN 161-552-045
City Si	alinas	Zip 93908	County Mor	nterey	Township 16 S
Latitude	36	33 25.6031 N Longitude	-121 43	57.3239 W	Range 02 E
	Deg.	Min. Sec. I	Deg. Min.	Sec.	Section 10
Dec. Lat.	36.557	112 Dec. Long.	121.73259		Crewed Surdees Electron
Vertical D	atum	Horizontal Datum	WGS84		Elevation Accuracy
Location A	Accuracy	Location Determination			Elevation Determination Method
		Method			
		Borehole Information		Water	Level and Yield of Completed Well
Orientation	n Verti	ical Specify		Depth to first wate	er (Feet below surface)
Drilling Me	thod E	Direct Rotary Drilling Fluid Bentonite	e	Depth to Static	and the second
	-			Water Level	(Feet) Date Measured
Total Dept	th of Bori	ing 600 Feet		Estimated Yield*	(GPM) Test Type
Total Dept	th of Com	npleted Well 395 Feet		"May not be repre	esentative of a well's long term yield.
-		Geo		- Free Form	
Depth	ham	Geo	nogic Log	- Free Form	
Surfa Feet to	Feet	11		Description	
0	3	Coarse Fill			
3	18	Coarse Sand			
18	29	Large Gravel Sand			
29	38	Hard Brown Clay			
38	40	Coarse Sand			
40	64	White Clay			
64	75	Hard White Silt			
75	77	Grey Clay			
77	90	Decomposed Granite			
90	105	Grey Clay			
105	108	Decomposed Granite			
108	110	Grey Clay			
110	135	Hard Grey Silt.			

Form DWR 188 rev. 12/19/2017

sing	Depth from	Surface	Casing Type	Material	Casings Specifications	Wall Thickness	Outside Diameter	Screen	Slot Size If any	Description
					Casing	s				
000	400	Thard G	inay onale							
590	596	Grey S	hale	_						
588	590	Hard S	hale							
570	588	Grey S	hale							
560	570	Hard SI	hale Layer							
505	560	Hard S	ilt Layer							
462	505	Grey S	in.							
450	462	Cemen	ted Black Sand							
445	450	Hard S	hale/Black							
419	445	Cemen	ted Black Sand	-						
400	419	White A	Ash Ciay							
340	400	White A	Ash/Clay							
323	340	White S	Shale							
320	323	Hard La	ayers							
305	320	Hard W	hite Silt w/clay b	ayers						
301	305	Grey S	andy Clay							
298	301	White S	Shale							
285	298	Grey S	hale Clay							
272	285	White S	Shale							
266	272	Grey C	lay							
261	266	Hard S	itt							
257	261	White S	Silt							
250	257	Hard W	/hite Silt							
234	250	Sandst	one Clay							
205	234	Sandst	one Layers							
105	205	Grey C	lay w/hard silt le	nees						
145	165	Sandy	Grey Glay							

	Casings									
Casing	Depth from Feet b	m Surface o Feet	Casing Type	Material	Casings Specifications	Wall Thickness (inches)	Outside Diameter (inches)	Screen Type	Slot Size If any (inches)	Description
d	0	350	Blank	PVC	N/A	0.337	4	1.00		PVC SCH 80
2	350	390	Screen	PVC	N/A	0.337	4	Milled Slots	0.04	PVC SCH 80
3	390	395	Blank	PVC	N/A.	0.337	4			PVC SCH 80

		_	Annular Ma	terial	
Depth Surf	from lace Feat	Fill	Fill Type Details	Filter Pack Size	Description
0	50	Cement	Other Cement	1	2% Bentonite
50	335	Bentonite	High Solids		14 B
335	340	Bentonite	Other Bentonite		Tablets
340	405	Filter Pack	Other Gravel Pack		SRIMB
405	410	Bentonite	Other Bentonite		Tablets
410	600	Other Fill	See description.		Native Fill

other observations.	Other	Observ	ations:
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	E	Iorehole Specifications	Certification Statement						
Depth Surf Feet to	from ace Feel	Borehole Diameter (inches)	I the under Name	signed, certify t	hat this report is o PAR	ompiete and ac KS WATER	RESOURCES	my knowledge - LLC	and ballef
0	350	10.625	Person, Firm or Corpo			ration	-	~	
350	390	10.625	POBOX 494 ZAMORA CA				CA	95698	
390	600	10.625	Address City Sta				State	e Zip	
			Signed electronic signature received		11/27/2024	11	13206		
			1.2.2.5	C-57 Licer	tsed Water Wel	Contractor	Date Signed	C-57 Lic	ense Nun
			-	-	D	WR Use	Only	_	
			CSG #	State V	Vell Number	\$	Site Code	Local W	ell Num
				TE	L L	N	1TI	TT	11
			La TRS: APN:	titude D	eg/Min/Se	6	Longitud	e Deg/M	in/Sec



COUNTY OF MONTEREY

HOUSING & COMMUNITY DEVELOPMENT - ENGINEERING SERVICES

1441 Schilling Place, 2nd Floor-South, Salinas, CA 93901

ENCROACHMENT PERMIT 24EP0279

Notify the Department of Housing & Community Development - Engineering Services at least 48 hours prior to starting any permit work, excluding weekends and legal holidays. Contact by phone by calling 831-755-5025 or by email at encroachment@co.monterey.ca.us

08/01/2024	DISTRICT:	5-All Districts
08/02/2024	ASSOCIATED CONSTRUCTION PERMIT:	
111-111-111-111	UTILITY WORK ORDER:	
VARIOUS COUNTY ROA	DS	
SOMAVIA ROAD, CORRA BENANCIO ROAD, BRAD STRAWBERRY ROAD.	AL DE TIERRA ROAD, PORTOLA DRIVE, RIV DLEY ROAD, SAN JUAN GRADE ROAD, ESP	ER ROAD, SAN INOSA ROAD AND
PARKS WATER RESOUR	RCES, LLC	
C/O SVBGSA		
PO BOX 494, ZAMORA,	CA 93924	
5306619027		
drilling@parkswaterresou	rces.com	
	08/01/2024 08/02/2024 111-111-111 VARIOUS COUNTY ROA SOMAVIA ROAD, CORRA BENANCIO ROAD, BRAE STRAWBERRY ROAD. PARKS WATER RESOUR C/O SVBGSA PO BOX 494, ZAMORA, 0 5306619027 drilling@parkswaterresour	08/01/2024 DISTRICT: 08/02/2024 ASSOCIATED CONSTRUCTION PERMIT: 111-111-111 UTILITY WORK ORDER: VARIOUS COUNTY ROADS SOMAVIA ROAD, CORRAL DE TIERRA ROAD, PORTOLA DRIVE, RIV BENANCIO ROAD, BRADLEY ROAD, SAN JUAN GRADE ROAD, ESP STRAWBERRY ROAD. PARKS WATER RESOURCES, LLC C/O SVBGSA PO BOX 494, ZAMORA, CA 93924 5306619027 drilling@parkswaterresources.com

In compliance with your request and subject to the existing County Encroachment Ordinance, and to all other terms, conditions, and restrictions written below, printed on or attached to any part of this permit, Permission is hereby granted to:

INSTALL AND MAINTAIN (10) GSA MONITORING WELLS LOCATED ON VARIOUS COUNTY ROADS PER ATTACHED LOCATION MAPS FOR SALINAS VALLEY BASIN GROUNDWATER SUSTAINABILITY AGENCY PROJECT.

In order for this encroachment permit to be acknowledged as complete, work shall be in accordance with the above mentioned plan, all pertinent sections of Chapter 14.04 of the Monterey County Code, together with any other applicable provisions of the Monterey County Code, the forms listed below, and other attachments:

Forms

Unless specified, no permit work or activity is to take place after: 08/01/25

CEQA Status:	C	EQA Section:	CEQA Class:
Fees Assessed:	\$2,794.43		
Copy: Permittee Job Site	Inspector File District Superintendent	t Finance	

"ENCROACHMENT" includes any structure or object of any kind or character placed, without authority of law, either in, on, under, or over any County highway.

GENERAL CONDITIONS FROM MONTEREY COUNTY CODE - CHAPTER 14.04

An ordinance to protect the County highways and works incidental thereto by regulating their excavation and encroachment.

<u>Sec.14.04.010</u> "County highway" means and includes all or any part of the entire width of right-of-way of any road, street, land, alley, way, place, or cul-de-sac maintained by the County and open to the use of the public for purposes of travel, whether or not such entire width is actually used for highway purposes, and whether or not it has been accepted into the County road system by resolution of the County Board of Supervisors. It also includes bridges, culverts, curbs, drains, ditches, and all works incidental to County highway construction, improvement, and maintenance.

<u>Sec.14.04.020</u> A - When satisfied an applicant's right or necessity, the Public Works Director may issue to him or her, a writing permit, which shall not be transferable, authorizing him or her to do any of the following acts:

1. Make an opening or excavation for any purpose in any County highway;

2. Place, change, or renew an encroachment;

3. Construct, grade, or place any driveway within a County highway; but no driveway shall be located within any portion of the normal curve returns of any intersection;

4. Plant, remove, cut, cut down, injure or destroy any tree/shrub/plant/flower growing within any County highway. (Ord. 1162 § 6, 1960)

<u>Sec. 14.04.070</u> A - This Chapter shall not be construed to prohibit any act for which a permit is required when the performance of such act is reasonably necessary for the preservation of life or property in an emergency. In all such cases, however, the person performing such act shall promptly notify the Public Works Director and shall apply for a permit therefor at the earliest practicable time thereafter, in any event not later than the next succeeding day during which the office of the Public Works Director is open.

B - Any person who violates any of the provisions of this Section is guilty of a misdemeanor. (Ord. 1162 § 11, 1960)

<u>Sec. 14.04.100</u> The Public Works Director may, but is not required to, supervise any work done under any permit issued under the County, but no cost of supervision shall be charged by the Public Works Director to any public Agency. (Ord. 1162 § 11, 1960)

Sec.14.04.110 A - Every permittee shall:

1. Notify the Public Works Director at least forty-eight (48) hours, exclusive of Saturdays, Sundays, and legal holidays, before starting any permit work;

Keep his or her permit, or a copy thereof, at the site of the permit work at all times when he or she is actually engaged in work thereat, and exhibit it to the Public Works Director, or his or her representative or any peace officer, upon demand;
 Promptly remove all refuse, debris, equipment, and excess material from the site of the permit work upon its completion, and leave the premises in as presentable a condition as before the work started;

4. Place and maintain suitable warning lights, signs, barriers, devices, or flagmen, which be the types specified in Section 21406 of the California Vehicle Code;

5. Deliver to the Public Works Director, upon his or her demand, after the completion of any permit work, a plan or drawing showing locations and details of permitted encroachments and connections, if any, to existing structures where such encroachments and connections differ substantially from any plats and diagrams submitted with the application for a permit, 6. In every case where he or she has disturbed the existing surface of a County highway, replace, repair or restore such highway in accordance with the terms of his or her permit. In case his or her permit contains no such terms, then he or she shall do such replacing, repairing, or restoring at his or her own expense promptly upon completion of his or her permit work, in a good and workmanlike manner as directed by the applicable provisions of this Chapter, to as good condition as before the permit work started; provided, however, that if the surface which was disturbed was a bituminous-surfaced roadway, such surface shall be replaced, repaired or restored with not less than one and one-half inches, compacted in thickness, of asphaltic concrete surfacing, over a minimum of six inches, compacted, in depth, of aggregate base material of a type approved by the Public Works Director;

7. Comply with all of the terms and conditions of his or her permit;

8. Comply with all construction standards and methods specified in this Chapter;

9. Store, place or deposit no material within five feet (5') from the edge of the pavement or traveled way or within the shoulder line, where the shoulders are wider than five feet (5'), of any County highway, without the prior approval of the Public Works Director;

10. Diligently pursue the permit work in such a way as not to cause an unreasonable interference or inconvenience to the traveling public.

<u>Sec.14.04.120</u> A - Unless the permit provides otherwise: All permit work shall conform to the following specifications as may be designated by the permit:

1. The Standard Specifications of the Department of Public Works of the State of California;

2. The Special Provisions for Encroachment Work, on file in the office of the Public Works Director.

<u>Sec.14.04.125</u> Indemnity and hold harmless: an applicant shall agree to indemnify, defend, and save harmless the County, its officers, agents and employees, from and against any and all claims and losses whatsoever accruing or resulting to any and all persons, firms or corporations, and public and private property in connection with the encroachment or the conduct of the special event, unless arising out of the sole negligence or willful misconduct of the County. (Ord. 3889, 1996)

<u>Sec. 14.04.160</u> The Public works Director may, in the manner provided in this section, require and enforce the removal of any of the things authorized by Subsection A of this Section, when, in his or her opinion, any of said things are so placed or done as to constitute a traffic hazard, or to interfere with normal highway maintenance, or otherwise to violate any of the conditions under which said things are authorized. (Ord. 3889, 1996; Ord. § 7, 1960)

DATE	WORK DESCRIPTION
7/10/2024	Stake Borehole Locations.
7/29/2024	Underground Utility Locating.
7/30/2024	Underground Utility Locating.
8/8/2024	Mobilize to M-ISW-1, drill to 75 feet bgs.
8/9/2024	Install casing/screen, filter pack, sanitary seal, and monument.
8/16/2024	Construct well pad at M-ISW-1.
8/19/2024	Mobilize to M-GWL-2, hand clear borehole location.
8/20/2024	Drill to 300 feet bgs.
8/21/2024	Reach TD, conduct geophysical logging.
8/22/2024	No work, waiting on County to approve well design.
8/23/2024	No work, waiting on County to approve well design.
8/26/2024	Ream borehole to 300 feet bgs.
8/27/2024	Ream borehole to 560 feet bgs. Conduct caliper log.
8/28/2024	Complete clean out pass. Install casing/screen, filter pack, and bentonite transition seal.
8/29/2024	Install high solids bentonite grout.
8/30/2024	Pour sanitary seal. Open ended airlifting.
9/3/2024	Set up for mechanical development.
9/4/2024	Mechanical development with dual swab.
9/5/2024	Construct well pad at M-GWL-2.
9/6/2024	No work, mobilizing to M-GWL-3.
9/9/2024	Mobilize to M-GWL-3, hand clear borehole location.
9/10/2024	Drill to 210 feet bgs.
9/11/2024	Drill to 340 feet bgs, conduct geophysical and caliper logs.
9/12/2024	Complete clean out pass. Install casing/screen, filter pack, and bentonite transition seal.
9/13/2024	Install high solids bentonite grout.
9/16/2024	Pour sanitary seal.
9/17/2024	Open ended airlifting. Flush with potable water. Construct well pad.
9/18/2024	No work, mobilizing to M-GWL-4
9/19/2024	No work, mobilizing to M-GWL-4
9/20/2024	No work, mobilizing to M-GWL-4
9/23/2024	Hand clear borehole location. Drill to 200 ft bgs.
9/24/2024	Drill to 400 ft bgs.
9/25/2024	Reach total depth. Conduct geophysical logs.
9/26/2024	No work, waiting on County to approve well design.
9/27/2024	No work, waiting on County to approve well design.
9/30/2024	No work, Drilling crew is sick.
10/1/2024	No work, Drilling crew is sick.
10/2/2024	No work, Drilling crew is sick.
10/0/0004	No work Drilling grow is sick
10/3/2024	
10/3/2024	No work, Drilling crew is sick.

10/8/2024	Ream borehole to 410 feet bgs. Conduct Caliper log.
10/0/2024	Install casing/screen, filter pack, and bentonite transition seal. Install high solids
10/9/2024	bentonite grout.
10/10/2024	Pour sanitary seal.
10/11/2024	Open ended airlifting.
10/14/2024	Mechanical development with dual swab.
10/15/2024	Construct well pad at M-GWL-4.
1/7/2025	
1///2025	Pump development and water quality sampling at M-GWL-2 and M-GWL-4.
1/8/2025	Resample M-GWL-2 and M-GWL-4.



Appendix B

Land Surveyor Data Sheets

SVBGSA Monitoring Well As-Built Survey Date Prepared: 1/31/25 Project No. 4728.00



Well ID:	As-Built Positions			
180/400-ISW-2		Northing	Easting	Elevation
Surveyed September 18, 2024	PVC Well Casing	2106808.26	5808996.64	88.92
Described Location:	Metal Standpipe			90.04
Somavia Road	Adjacent Ground			86.34

Well ID:				
M-GWL-2		Northing	Easting	Elevation
Surveyed September 18, 2024	PVC Well Casing	2118587.22	5781136.20	63.86
Described Location:	Metal Standpipe			64.19
River Road	Adjacent Ground			61.92

Well ID:				
M-GWL-3		Northing	Easting	Elevation
Surveyed October 28, 2024	PVC Well Casing	2097357.31	5759221.82	381.61
Described Location:	Metal Standpipe			381.97
Corral De Tierra	Adjacent Ground			379.95

Well ID:				
M-GWL-4		Northing	Easting	Elevation
Surveyed October 28, 2024	PVC Well Casing	2095820.89	5770514.31	670.69
Described Location:	Metal Standpipe			670.93
San Benancio	Adjacent Ground			668.75

Well ID:				
L-GWL-2		Northing	Easting	Elevation
Surveyed January 20, 2025	PVC Well Casing	2174873.78	5799171.24	243.64
Described Location:	Metal Standpipe			243.82
San Juan Grade	Adjacent Ground			240.74
SVBGSA Monitoring Well As-Built Survey Date Prepared: 1/31/25 Project No. 4728.00

Well ID:



L-GWL-6		Northing	Easting	Elevation
Surveyed January 20, 2025	PVC Well Casing	2198042.49	5776971.15	262.62
Described Location:	Metal Standpipe			263.04
San Miguel Canyon	Adjacent Ground			259.98
Well ID:				
M-ISW-1		Northing	Easting	Elevation
Surveyed December 3, 2024	PVC Well Casing	2121098.85	5773987.33	65.54
Described Location:	Metal Standpipe			66.28
Portola Drive	Adjacent Ground			62.66
Wall ID:				
E-DA-2		Northing	Easting	Elevation
Surveyed January 20, 2025	PVC Well Casing	2163912 40	5782413.26	125 11
Described Location:	Metal Standnine	2100012.40	0702410.20	125.51
Christensen Road	Adjacent Ground			122.58
	-			
Well ID:				
UV-GWL-1		Northing	Easting	Elevation
Surveyed December 3, 2024	PVC Well Casing	1838712.52	6026440.53	536.29
Described Location:	Metal Standpipe			536.46
Bradley (GWL)	Adjacent Ground			533.24
Well ID:				
UV-ISW-1		Northing	Easting	Elevation
Surveyed Decmber 3, 2024	PVC Well Casing	1838723.95	6026396.02	535.67
Described Location:	Metal Standpipe			536.19
Bradley (ISW)	Adjacent Ground			532.93

Survey Notes:

Coordinates are grid coordinates per the California Coordinate System, NAD83 Zone IV. Elevations are relative to the North American Vertical Datum of 1988 (NAVD88). Positions were determined using a combination of GNSS and conventional survey methods; at each well location the site control was related to the National Spatial Reference System using static GNSS observations and the use of the National Geodetic Survey's (NGS's) Online Positioning User Service (OPUS). Positions were subsequently transferred to the wells using conventional survey equipment. All units are US Survey Feet.



Appendix C

Laboratory Reports



MONTEREY COUNTY HEALTH DEPARTMENT

Consolidated Chemistry Laboratory 1270 Natividad Road Salinas, CA 93906 Phone (831)755-4516 Fax (831)755-4652 ELAP Certification Number 1395

Analytical Report

Montgomery & Associates 201 Hoffman Ave. Suite 9 Monterey, CA 93940

Attn: Abby Ostovar

Page 1 of 3

AC89006 Lab Number: M-GWL-2 (RIVER ROAD) Sample Site Source Code Other ID

Sample Comments: Ground Water. Receiving temperature 5.6°C.

M	ond	lay,	Janua	ary	27,	2025
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MONTGOMERY **Client Code:** Collection Date/Tim Submittal Date/Time Sample Collector

e	01/08/2025	14:50
е	01/08/2025	15:19
	GRANICHER	RН

Analyte	Method	Unit	Result	PQL	Qualifier	Analysis Start Date Time
adjusted Sodium Adsorption Ratio	UC Davis1993		0.74			01/25/2025 16:00
Agriculture-Conductivity	SM2510B	dS/m	1.6	.1		01/10/2025 07:38
Arsenic (As)	EPA200.8 REV 5.4	ug/L	2	0.5		01/11/2025 12:00
Bicarbonate Alkalinity (as HCO3)	Calculated	mg/L	569.7	1.0		01/08/2025 15:35
Boron	SM4500B B-2000	mg/L	0.21	0.10		01/13/2025 11:25
Calcium	ASTM6919-17	mg/L	176	5		01/23/2025 09:00
Carbonate Alkalinity (as CO3)	Calculated	mg/L	<1	1.0		01/08/2025 15:35
Cl (Chloride)	EPA300.0	mg/L	108	0.2		01/08/2025 22:04
Conductivity @ 25C	SM2510 B-2011	umho/cm	1570	4		01/10/2025 07:38
Hardness	SM2340 B-2011	mg/L	2690	1.7		01/24/2025 09:38
Iron	EPA200.7	ug/L	<100	100		01/18/2025 12:30
Magnesium	ASTM6919-17	mg/L	546	1		01/23/2025 09:00
Manganese (Mn)	EPA200.7	ug/L	66	1		01/18/2025 12:30
Nitrate Nitrogen	EPA300.0	mg/L	<0.2	0.2		01/08/2025 22:04
Nitrite as nitrogen	SM4500 NO2 B	mg/L	<0.05	0.05		01/08/2025 15:41
NO3 (Nitrate)	EPA300.0	mg/L	<1	1		01/08/2025 22:04
pH (Laboratory)	SM4500H+ B-2011	pН	6.7	0.1	HT	01/08/2025 15:35
Potassium	ASTM6919-17	mg/L	5.1	1		01/23/2025 09:00
SO4 (Sulfate)	EPA300.0	mg/L	205	1		01/08/2025 22:04
Sodium	ASTM6919-17	mg/L	84	1		01/23/2025 09:00
Sodium Adsorption Ratio (SAR)	L.V. Wilcox		0.69	N/A		01/25/2025 16:00
Total Alkalinity (as CaCO3)	SM2320 B-2011	mg/L	467	2		01/08/2025 15:35

Page 2 of 3					Monday	/, January 27, 2025
Total Dissolved Solids (TDS)	SM2540 C-2015	mg/L	1000	5		01/09/2025 14:29
Lab Number: AC89007 Sample Site M-GWL-4 (C Source Code Other ID Sample Comments: Ground Wa	ORRAL DE TIERRA ROA	ND) re 1.4°C.		Clie Colle Subn Sam	nt Code: ction Date/Time nittal Date/Time ole Collector	MONTGOMERY 01/08/2025 12:55 01/08/2025 15:19 GRANICHER H
Analyte	Method	Unit	Result	PQL	Qualifier Ana	alysis Start Date Time
adjusted Sodium Adsorption Rati	o UC Davis1993		3.42			01/25/2025 16:00
Agriculture-Conductivity	SM2510B	dS/m	1.5	.1		01/10/2025 07:38
Arsenic (As)	EPA200.8 REV 5.4	ug/L	6	0.5		01/11/2025 12:00
Bicarbonate Alkalinity (as HCO3)	Calculated	mg/L	353.8	1.0		01/08/2025 15:55
Boron	SM4500B B-2000	mg/L	0.17	0.10		01/13/2025 11:25
Calcium	ASTM6919-17	mg/L	132	5		01/23/2025 09:00
Carbonate Alkalinity (as CO3)	Calculated	mg/L	<1	1.0		01/08/2025 15:55
CI (Chloride)	EPA300.0	mg/L	194	0.2		01/08/2025 22:18
Conductivity @ 25C	SM2510 B-2011	umho/cm	1520	4		01/10/2025 07:38
Hardness	SM2340 B-2011	mg/L	449	1.7		01/24/2025 09:38
Iron	EPA200.7	ug/L	<100	100		01/18/2025 12:30
Magnesium	ASTM6919-17	mg/L	29	1		01/23/2025 09:00
Manganese (Mn)	EPA200.7	ug/L	34	1		01/18/2025 12:30
Nitrate Nitrogen	EPA300.0	mg/L	2.0	0.2		01/08/2025 22:18
Nitrite as nitrogen	SM4500 NO2 B	mg/L	<0.05	0.05		01/08/2025 15:41
NO3 (Nitrate)	EPA300.0	mg/L	8.8	1		01/08/2025 22:18
pH (Laboratory)	SM4500H+ B-2011	рН	6.5	0.1	HT	01/08/2025 15:55
Potassium	ASTM6919-17	mg/L	3.9	1		01/23/2025 09:00
SO4 (Sulfate)	EPA300.0	mg/L	168	1		01/08/2025 22:18
Sodium	ASTM6919-17	mg/L	126	1		01/23/2025 09:00
Sodium Adsorption Ratio (SAR)	L.V. Wilcox		2.55	N/A		01/25/2025 16:00
Total Alkalinity (as CaCO3)	SM2320 B-2011	mg/L	290	2		01/08/2025 15:55
Total Dissolved Solids (TDS)	SM2540 C-2015	mg/L	933	5		01/09/2025 14:29
Lab Number: AC89008 Sample Site L-GWL-2 (S/ Source Code Other ID Sample Comments: Ground W/	AN JUAN GRADE ROAD) ater. Receiving temperatu	re 1.0⁰C.		Clie Colle Subn Samı	nt Code: ction Date/Time nittal Date/Time ole Collector	MONTGOMERY 01/08/2025 10:48 01/08/2025 15:19 GRANICHER H

Analyte	Method	Unit	Result	PQL	Qualifier	Analysis Start Date Time
adjusted Sodium Adsorption Ratio	UC Davis1993		3.48			01/25/2025 16:00
Agriculture-Conductivity	SM2510B	dS/m	1.0	.1		01/10/2025 07:38
Arsenic (As)	EPA200.8 REV 5.4	ug/L	2	0.5		01/25/2025 16:00
Bicarbonate Alkalinity (as HCO3)	Calculated	mg/L	181.8	1.0		01/08/2025 16:17

Monday, January 27, 2025

Boron	SM4500B B-2000	mg/L	0.11	0.10		01/13/2025 11:25
Calcium	ASTM6919-17	mg/L	56	5		01/23/2025 09:00
Carbonate Alkalinity (as CO3)	Calculated	mg/L	<1	1.0		01/08/2025 16:09
Cl (Chloride)	EPA300.0	mg/L	170	0.2		01/08/2025 22:32
Conductivity @ 25C	SM2510 B-2011	umho/cm	1020	2		01/10/2025 07:38
Hardness	SM2340 B-2011	mg/L	226	1.7		01/24/2025 09:38
Iron	EPA200.7	ug/L	1440	100		01/18/2025 12:30
Magnesium	ASTM6919-17	mg/L	21	1		01/23/2025 09:00
Manganese (Mn)	EPA200.7	ug/L	213	1		01/18/2025 12:30
Nitrate Nitrogen	EPA300.0	mg/L	12.8	0.1		01/08/2025 22:32
Nitrite as nitrogen	SM4500 NO2 B	mg/L	<0.05	0.05		01/08/2025 15:41
NO3 (Nitrate)	EPA300.0	mg/L	57	1		01/08/2025 22:32
pH (Laboratory)	SM4500H+ B-2011	рН	6.4	0.1	HT	01/08/2025 16:09
Potassium	ASTM6919-17	mg/L	8.3	1		01/23/2025 09:00
SO4 (Sulfate)	EPA300.0	mg/L	35	1		01/08/2025 22:32
Sodium	ASTM6919-17	mg/L	112	1		01/23/2025 09:00
Sodium Adsorption Ratio (SAR)	L.V. Wilcox		3.20	N/A		01/25/2025 16:00
Total Alkalinity (as CaCO3)	SM2320 B-2011	mg/L	149	2		01/08/2025 16:09
Total Dissolved Solids (TDS)	SM2540 C-2015	mg/L	650	5		01/09/2025 14:29

Qualifier(s) / Notes:

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pH: The recommended holding time for this analysis is only 15 minutes. The sample was analyzed as soon as it was possible but it was received and analyzed past holding time.

Report approved by

Conna Jeignson ĸ

Donna Ferguson, Ph.D., P.H.M. Laboratory Director



Appendix D

Pneumatic Slug Test Analysis







