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2021 SECOND SEMIANNUAL AND ANNUAL GROUNDWATER QUALITY MONITORING REPORT

Genesis Solar Energy Project

Riverside County, California

COC S&W-20

January 7, 2022

Prepared By:

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SIGNATURE PAGE

2021 SECOND SEMIANNUAL AND ANNUAL GROUNDWATER QUALITY MONITORING REPORT

RIVERSIDE COUNTY, CALIFORNIA

PROFESSIONAL STATEMENT

I declare under the penalty of law that I have personally examined and am familiar with the information submitted in this document, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of a fine and imprisonment for knowing violations.

I further certify that this report has been reviewed by the appropriate authority at NextEra Energy Resources and is being submitted with their written consent.



Arlin W. Brewster

Professional Geologist 9207

January 7, 2022

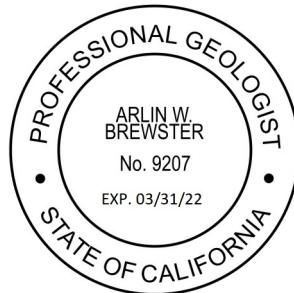


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1.0 INTRODUCTION

Northstar Environmental Remediation (Northstar) has prepared this 2021 Second Semiannual Groundwater Quality Monitoring Report on behalf of Genesis Solar, LLC (Genesis). This report details groundwater quality monitoring performed in June 2021 at the Genesis Solar Energy Project (GSEP). The GSEP lies roughly 25 miles west of the city of Blythe, California in eastern Riverside County on lands managed by the Bureau of Land Management (BLM) (**Figure 1**). The GSEP consist of two independent concentrated solar electric generating facilities with a nominal net electric output of 125 megawatts (MW) each (a total net electrical output of 250 MW).

Northstar conducts groundwater quality monitoring in accordance with Condition of Certification Soil & Water 20 (COC S&W-20) as presented in the California Energy Commission (CEC) Final Decision document dated October 12, 2010 (CEC, 2010). The COC S&W-20 requires compliance with Waste Discharge Requirements (WDR) and Monitoring and Reporting Program (MRP) Board Order No. R7-2013-0005, issued by the California Regional Water Quality Control Board, Colorado River Basin Region (CRWQCB).

1.1 Background

Genesis filed an updated Plan of Development (POD) for the GSEP to the BLM in September 2010 (Genesis Solar, LLC, 2010), and an Application for Certification (AFC) to the California Energy Commission (CEC) in August 2009 (Genesis Solar, LLC, 2009). The CEC issued its Final Decision on the GSEP on October 12, 2010 (CEC, 2010). The BLM issued the Final Environmental Impact Statement (FEIS) for the GSEP for public comment on August 27, 2010. The Final Decision and the FEIS adopted COC S&W-20 to monitor groundwater quality within a 10-mile radius of the GSEP.

GSEP uses dry cooling technology and relies on groundwater as a water source during operation. Three groundwater production wells were installed within the GSEP site boundary between July and October 2011. These production wells are permitted to pump groundwater at an average rate of 202 acre-feet per year (afy) (up to 1,348 afy during construction).

Two evaporation ponds, licensed as Class II Surface Impoundments, located between Solar Fields 1 and 2 accept wastewater generated during operation of the GSEP. Three detection monitoring wells (DM-1, DM-2, and DM-3) were installed, per the Final Decision, along the west, east, and south perimeter of the evaporation ponds in February 2012. Groundwater samples were collected for four quarterly events prior to GSEP operation to establish baseline conditions. Semiannual sampling is conducted to comply with the requirements of COC S&W-6 and the WDR and MRP documents.

1.2 Geographic Setting

The GSEP is located between the communities of Blythe and Desert Center, California (**Figure 1**). Land use is predominantly open space and conservation and wilderness areas occupied by a community of low creosote and bursage vegetation. Chuckwalla and Ironwood State Prisons are located roughly 6 miles to the southeast.

The GSEP lies on a broad, relatively flat topography sloping north to south at elevations between 400 and 370 feet above mean sea level (amsl). The surface is underlain by alluvial deposits derived from the Palen Mountains to the north-northwest, and the McCoy Mountains to the northeast (**Figure 1**).

The deposits immediately adjacent the mountains have formed alluvial fans from multiple identifiable sources. The multiple fan surfaces have coalesced into a single bajada surface that wraps around each of these mountain fronts. Between the bajada surfaces lies a broad valley-axial drainage that extends southward between the mountains and drains to the Ford Dry Lake playa, located about 1 mile south of the GSEP facility (DWR, 1963).

Climatic data collected from Weather Station Blythe Riverside Airport (33.61°N, -114.71°W, at an elevation of about 387 feet amsl) indicate that the average maximum temperature in the airport vicinity is approximately 87.8°F (31.0°C). Average rainfall is reported to be approximately 3.83 inches (97.3 mm). These data were received from National Oceanic and Atmospheric Administration (NOAA) National Centers for Environmental Information 1981-2010 Normals.

1.3 Hydrogeologic Setting

The GSEP lies within the Chuckwalla Valley Groundwater Basin (Chuckwalla Basin) which has a surface area of approximately 940 mi² (2,435 km²) underlying Chuckwalla Valley. It is bounded up gradient by three groundwater basins including the eastern part of the Orocopia Valley and Pinto Valley Groundwater Basins and the southern part of the Cadiz Valley Groundwater Basin; and, down gradient by the Palo Verde Mesa Groundwater Basin (Palo Verde Basin) (U.S. Bureau of Reclamation, 1972). Groundwater occurs at depths of about 80 to 130 feet below ground surface (bgs), and flow direction is southeast to eastward from the Chuckwalla Basin into the Palo Verde Basin (**Figure 2**).

Sources of groundwater recharge to the Chuckwalla Basin include precipitation, inflow from the Orocopia Valley and Pinto Valley Groundwater Basins, and return flows from agricultural sources and treated wastewater effluent. Groundwater is the only available water resource in Chuckwalla Valley, with extraction to meet local demand the primary source of groundwater outflow. Other minor sources of outflow include underflow to the Palo Verde Basin and evapotranspiration in portions of Palen Dry Lake (where shallow groundwater is present).

Calculations of the Chuckwalla Basin groundwater budget before GSEP operations indicate a stable surplus of 2,600 afy (CEC, 2010). Current operational demand, based on calendar year 2020 extraction data, is approximately 112 afy.

The region of the Chuckwalla Basin occupied by the GSEP and associated groundwater monitoring wells is underlain by four geological units. The shallowest unit is the unconsolidated Holocene-aged Alluvium, consisting of geologically recent lake, river, and wind deposits (DWR, 1963). Beneath the alluvium is the unconsolidated Pleistocene-aged Pinto Formation consisting of coarse alluvial fan deposits (known as fanglomerate), interspersed with clays and basalt (DWR, 1963). Beneath the Pinto Formation lies the unconsolidated to partially consolidated Pliocene-aged Bouse Formation, consisting of coarse alluvium and fanglomerate deposits (Wilson and Owen-Joyce, 1994). The Bouse Formation is underlain by bedrock consisting of metamorphic rocks and intrusive igneous basalts (DWR, 1963).

Groundwater in the GSEP monitoring region occurs in two aquifers: the shallower Alluvium aquifer, extending to a maximum approximate depth of 250 feet bgs; and, the deeper Bouse Formation aquifer, extending between approximately 250 to 6,500 feet bgs (Wilson and Owen-Joyce, 1994). The Pinto Formation exists only on the eastern fringe of the Chuckwalla Basin and is not encountered by the GSEP monitoring wells. Monitoring data indicate a downward vertical hydraulic gradient of groundwater flow from the Alluvium to the Bouse Formation aquifer.

Based on recent monitoring data, the depth to groundwater in the Bouse Formation ranges from approximately 87.72 feet bgs (299.68 feet amsl) in TW-1, located upgradient of the site, to 136.68 feet bgs (255.42 feet amsl) in Well 23a, located downgradient of the site. Perched water exists at the Chuckwalla State Prison but is unlikely to occur within the GSEP boundaries as there is no irrigation.

1.4 Monitoring Program Objectives

Northstar performs groundwater quality monitoring in accordance with COC S&W-20 as described in the CEC's Final Decision. Monitoring is completed semiannually during the Second and Fourth Quarter of each year. The primary objectives of groundwater quality monitoring are:

- to identify potential changes in the existing water quality of the water supply resulting from GSEP pumping in compliance with COC S&W-20;
- to establish groundwater quality data within a 10-mile radius of the GSEP; and,
- to provide a mechanism for early warning to help avoid, minimize, or mitigate significant impacts to groundwater quality.

2.0 GROUNDWATER MONITORING PROGRAM

2.1 Monitoring Well Network

The following provides a summary of the monitoring well network for the GSEP required under COCS&W-20. Well locations are illustrated in **Figure 3** and summarized in **Table 1**.

- Offsite wells installed for the project include deep test wells TW-1 and TW-2, shallow observation well OBS-1, and buried-transducer well OBS-2 (currently inoperative).
- Existing and functional offsite wells located within two miles of the GSEP and project right-of-way include CalTrans water supply well 23a and Sempra Energy wells 24-1, 24-2, and 24-3.
- Well 14, a water supply well located along Chuckwalla Valley Road south of I-10, was added to the program at the request of CEC staff.
- Three groundwater extraction wells (PW-0, PW-1, and PW-2) were installed on the GSEP facility to provide water for construction and operations. Currently, PW-0 pumps water intermittently; PW-1 is sealed with a metal plate; and PW-2 pumps regularly. All three wells are equipped with pressure transducers and totalizers are installed on PW-0 and PW-2.
- Three groundwater monitoring wells (DM-1, DM-2, and DM-3) were installed adjacent the evaporation ponds and serve to monitor the surrounding groundwater for signs of releases.
- Other water wells within 10 miles of GSEP for which water level data are available from the National Water Information System (NWIS) database maintained by the U.S. Geological Survey (USGS). Data reported for these wells has been inconsistent but is used for general groundwater contouring if data exists within the most recent year.

2.2 Groundwater Quality Monitoring Activities

Groundwater quality monitoring includes the following scope of work:

- Field staff collect groundwater level measurements in the monitoring well network;
- Purging and sampling of wells;
- Analysis of the groundwater samples for general minerals, major anions and cations, deuterium and oxygen-18, oil & grease, heat transfer fluid, and general parameters;
- Compilation of water level and water quality data for wells located in the Chuckwalla Basin within 10 miles of the GSEP for which data is available from public sources;
- Evaluation of water quality data, including appropriate statistical and graphical methods;
- Evaluation of stable isotope data for potential water sources; and,
- Evaluation of water level data and preparation of a potentiometric surface map.

3.0 FIELD METHODS

Northstar performed the most recent semiannual groundwater quality monitoring at the GSEP on December 2 and 3, 2021. A description of the field methods used is provided below.

3.1 Manual Water Level Measurements

Northstar measured depth to groundwater in each well using a Solinst interface probe (Solinst) as quickly as practical to best represent the potentiometric surface across the GSEP at a given time. Field staff recorded depth to water to the nearest hundredth (0.01) foot below a surveyed measuring mark located on the north side of the top of casing (toc) on a groundwater level measurement form (**Appendix A**).

Table 2 provides a summary of current and historical groundwater level measurements and calculated groundwater elevations for wells included in the monitoring well network, and additional wells in the Chuckwalla Basin located within 10 miles of the GSEP. Groundwater elevation contours and flow direction are illustrated in **Figure 4**.

3.2 Electronic Water Level Measurements

In past monitoring events, field staff used a Geokon Model 800 data logger to retrieve groundwater level data from an array of four Geokon Model 4500S vibrating wire pressure transducers installed in OBS-2 (**Table 2**). The transducers were placed at depths of 270, 315, 370, and 400 feet below ground surface. Data from the transducers became irretrievable in 2014 due to calibration issues and are currently not monitored.

Solinst Levellogger pressure transducers are currently installed in OBS-1 and TW-1. The transducers record the feet of water above the sensor at 6-hour intervals. In addition, a Solinst Barologger installed in Well OBS-1 above the water table records changes in barometric pressure. Using Solinst software, the Levellogger data is calibrated to the manual groundwater elevation measurements and adjusted for changes in barometric pressure using the Barologger data. Data is used to assess seasonal and diurnal trends in the shallower Alluvium aquifer (OBS-1) and the deeper Bouse Formation aquifer (TW-1). Transducer data is currently collected and kept on file for reference.

3.3 Groundwater Sampling

Northstar collected groundwater samples from offsite monitoring wells 23a, TW-1, TW-2, and OBS-1 using disposable bailers. Field data sheets are included in **Appendix A**.

Detection monitoring wells DM-1, DM-2, and DM-3 are each equipped with a dedicated 1.66-inch diameter Geotech® submersible bladder pump with water intakes set at the middle of wetted screen (approximately 115 feet btoc). Field staff collect samples from these wells using the low flow purging method in accordance with the most recent EPA guidance document (USEPA, 2017). Field data sheets are included in **Appendix A**.

Groundwater extraction wells PW-0 and PW-2 are equipped with dedicated water production pumps. Pumps may intermittently be turned online or offline depending on the needs of the facility. Northstar

coordinates with GSEP staff to turn on these pumps when necessary to collect groundwater samples. Field data sheets are included in **Appendix A**.

Field staff measured groundwater parameters with a Horiba groundwater quality field instrument equipped with a flow-through cell. Staff calibrated the Horiba at the beginning of each day and decontaminated the instrument prior to use and between wells. Measurements of field parameters (pH, electrical conductivity (EC), temperature, turbidity, and oxidation-reduction potential (ORP)) were taken at 5-minute intervals and at the time of sampling as part of the low flow purge method of sampling. An equipment blank was not collected from the instrument because it is disconnected prior to sampling.

Staff purged each detection monitoring well until water quality parameters stabilized over three successive readings (+/- 0.2 for pH, +/- 10% for EC, ORP and turbidity) and the discharge volume exceeded the drawdown, tubing, and flow-through cell volume. Northstar staff recorded the sampling methods, volume of water purged, pumping rate, field parameter measurements, and observations of water turbidity and odor on the groundwater sampling field form (**Appendix A**).

Groundwater purged from the GSEP wells was temporarily contained in a sealed container and then disposed in the evaporation ponds as directed in the MRP (Part II A.1.b.). The measured field parameters documented at the end of purging are included in **Table 3**.

3.4 Equipment Decontamination

Northstar decontaminated reusable/non-dedicated equipment (e.g., water level probe and flow-through cell) before use at each well. Decontamination of reusable equipment consisted of washing with a laboratory-grade non-phosphate detergent (Liquinox, Alconox, or equivalent) and potable water solution followed by a double rinse with demineralized water.

3.5 Collection of Groundwater Samples

Groundwater samples were collected using standard field procedures. The sampler wore new nitrile gloves while collecting groundwater samples. Samples were collected directly from the pump discharge tube, extraction well sampling port, or sampling bailer into laboratory-prepared bottles. Where directed by the laboratory, samples were passed through a new, disposable 0.45 micrometer filter utilizing a peristaltic pump. The purpose of the filter is to remove particulates larger than 0.45 micrometers before being placed in bottles. Prior to sampling, the tubing is disconnected from the flow-through cell and the flow rate reduced as low as feasible to minimize volatilization.

3.6 Laboratory Analytical

Laboratory samples are submitted to SunStar Laboratories, Inc. (SunStar) of Lake Forest, California. SunStar subcontracts the heat transfer fluid analysis to Eurofins Calscience Laboratories, Inc. (Eurofins) of Irvine, California. They also subcontract the oxygen-18 and deuterium stable isotope analyses to Isotech Laboratories, Inc. of Champaign, Illinois. All laboratories are state and federally certified and analyze the samples by the following methods, as detailed in the Final Decision, WDR, and MRP documents:

- Chloride, Sulfate, and Nitrate by EPA Method 300.0;
- Mercury by Standard Method 7470A;
- Total Dissolved Solids by Standard Method 2540C;
- pH by Standard Method 4500H;
- Specific Conductance by Standard Method 2510B;
- Heat Transfer Fluid (HTF) by EPA Method 8015B;
- Heavy Metals by EPA Method 200.7 and 200.8;
- Oil & Grease by EPA Method 1664A; and,
- Oxygen-18 and Deuterium by Isotope Geochemistry.

3.7 Sample Handling

Field staff labeled sample containers before sampling and placed them into an ice cooled chest immediately after sample collection. Glass bottles were sealed in protective packing sleeves for transport. Exposure to dust, direct sunlight, high temperature, adverse weather conditions and possible cross-contamination were avoided.

Standard chain of custody (COC) protocols were followed for the groundwater samples. Northstar delivered the samples under proper chain of custody protocol to SunStar which signed as receiver of the samples. SunStar sent the subcontract samples under proper COC protocols.

3.8 Quality Assurance / Quality Control

The laboratory conducted standard Quality Assurance/Quality Control (QA/QC) to assure analytical accuracy and precision. This included preparation and analysis of method blanks, surrogate spikes, matrix spike/matrix spike duplicate (MS/MSD) pairs and laboratory control samples (LCS).

Northstar collects a duplicate sample once per sampling event from a single well and submits it to the laboratory without identifiers including date and time. During this event, a duplicate sample was collected from well PW-2. Analytical results for the duplicate sample are included in **Table 4** immediately below the regular sample for this well.

A set of quality control blank samples (including a field and trip blank) were collected and put on hold at the laboratory pending analysis of the groundwater samples. The field blank bottle set is filled with demineralized water and set adjacent to the work area with the lids off during the workday and is intended to screen out constituents in ambient air. The trip blank bottle sets are prepared at the laboratory and are sealed throughout the groundwater sampling event. They are stored inside the sample coolers and are intended to screen out constituents in the coolers. The quality control blank samples are only analyzed if there is anomalous data present for the groundwater sampling results.

4.0 RESULTS OF LABORATORY ANALYSES

All laboratory analytical reports for this reporting period are included in **Appendix D**. Results are tabulated for the monitoring network in **Table 4** and for wells outside the monitoring network (but still within the Chuckwalla Groundwater Basin) in **Table 5**.

4.1 General Inorganic Chemical Analysis

This section presents results of inorganic chemical analyses (major cations and anions, mineral constituents, and general parameters) performed on groundwater samples collected in the monitoring well network. Time series plots for each inorganic constituent are included as Charts 1 to 24 in **Appendix B**. Remarks about each chart are as follows:

- Chart 1: **Chloride** – Concentrations have decreased compared to the previous monitoring event and are similar to baseline values. Chloride concentrations are normally elevated during the winter season.
- Chart 2: **Sulfate as SO₄** – Concentrations have decreased compared to the previous monitoring event and are similar to baseline values. Sulfate concentrations are normally elevated during the winter season.
- Chart 3: **Nitrate as NO₃** – Appears in low concentrations mostly in shallow monitoring wells, including upgradient well OBS-1. Concentrations have increased compared to the previous monitoring event.
- Chart 4: **Calcium** - Concentrations have increased compared to the previous monitoring event and are similar to baseline results.
- Chart 5: **Copper** – Historically occurs in only a few wells at low concentrations, and was not detected during this event. There are no apparent trends.
- Chart 6: **Sodium** – Concentrations have increased in all upgradient wells and detection monitoring wells, and were relatively unchanged in downgradient wells compared to the previous monitoring event. All concentrations are currently similar to baseline values.
- Chart 7: **Potassium** – Was not detected in any wells during this monitoring event.
- Chart 8: **Iron** – Was not detected in any wells during this monitoring event.
- Chart 9: **Magnesium** – Concentrations have increased slightly in all wells compared to the previous monitoring event and are similar to baseline values.
- Chart 10: **Antimony** – There have been no detections to date.
- Chart 11: **Arsenic** – Detected in both production wells (PW-0 and PW-2), shallow upgradient well OBS-1, and detection monitoring well DM-3 during this event. The concentrations in OBS-1 and DM-3 were the highest ever reported.
- Chart 12: **Barium** – Detected at baseline concentrations during this monitoring period.
- Chart 13: **Cadmium** – There have been no detections to date.
- Chart 14: **Chromium (Total)** – Not detected during this event.
- Chart 15: **Cobalt** – There have been no detections to date.
- Chart 16: **Lead** – There have only been two detections to date – one in TW-1 (fourth quarter 2017) and in 23a (second quarter 2016).
- Chart 17: **Manganese** – Occurs in very low concentrations in most wells but punctuated by two larger detections in 23a (fourth quarter 2010) and TW-1 (second quarter 2016). Manganese has

not been analyzed since the 2nd quarter of 2018 because it is no longer part of the standard set of analytes included in the analytical method.

- Chart 18: **Nickel** – Only detected at very low concentrations in production well PW-2 and downgradient well 23a during this event. Nickel has only been detected a few times historically.
- Chart 19: **Selenium** – Occurs sporadically in several wells but has appeared more consistently in shallow monitoring wells, particularly upgradient well OBS-1. There are no apparent trends.
- Chart 20: **Zinc** – Occurs only in well 23a from fourth quarter 2014, but in several other wells since fourth quarter 2017, a result of lower detection limits. There are no apparent trends.
- Chart 21: **Mercury** – Has occurred only once at a very low concentration in well DM-1 (second quarter 2015). Mercury has never been detected in the evaporation ponds.
- Chart 22: **Total Dissolved Solids** – Concentrations generally increased in all detection monitoring wells, deep upgradient well TW-1, and deep downgradient well TW-2 compared to the previous monitoring event. All other concentrations are similar to baseline values.
- Chart 23: **Specific Conductance** - Concentrations remain near baseline values for this event.
- Chart 24: **pH** – Values are near baseline conditions for this reporting period for all wells. TW-1 has exhibited spikes in pH value in previous monitoring events.

4.2 Organic Chemical Analysis

This section presents results of organic chemical analyses (oil & grease and heat transfer fluid) performed on groundwater samples collected in the monitoring well network. Time series plots for each organic constituent are included as Charts 25 and 26 in **Appendix B**. Remarks about each chart are as follows:

- Chart 25: **Oil & Grease** – Appears only sporadically in wells TW-2, OBS-1, PW-0, and PW-2. Was not detected during this monitoring event. There are no apparent trends.
- Chart 26: **Heat Transfer Fluid** – There have been no detections to date.

4.3 Stable Isotope Analysis

Oxygen-18 and deuterium are naturally occurring stable isotopes of oxygen and hydrogen that occur at varying concentrations in all water. Concentrations of these heavier isotopes varies in precipitation depending on latitude, elevation and climate (Froehlich and Yurtsever, 1995; Izicki, Martin and Michel, 1995; Kendall and Coplen, 2001). Precipitation falling at higher elevations, higher latitudes, or cooler climates tend to be depleted in these heavier isotopes. The isotope depletion relative to Vienna Standard Mean Ocean Water (VSMOW) is expressed in delta notation as parts per thousand (‰). The ratio of oxygen-18 to deuterium has been well established around the world as falling on a straight line called the Global Meteoric Water Line (GMWL). This relationship between oxygen-18 and deuterium is useful for determining the source and history of a water sample. Departures from the GMWL can occur due to evaporation, which tends to leave the remaining water enriched in heavier isotopes (less depleted), due to mixing with waters from other origins, or due to chemical reactions with surrounding materials or the atmosphere (Domenico and Schwartz, 1998).

Table 4 provides the oxygen-18 and deuterium content of the water samples collected to date. A time series plot of the stable isotopes are presented in Chart 27 and 28, and a graph of the oxygen-18 and deuterium relative to the GMWL is presented as Chart 29 in **Appendix B**. The data indicates several environmental conditions, as follows:

- Groundwater in the shallow Alluvium aquifer is less depleted than the deeper Bouse Formation aquifer, indicating that it is closer to the point of origin of groundwater recharge (ie, it is recharged by precipitation or runoff that occurs locally).
- Both aquifers are more depleted downgradient, indicating they are further from the source of precipitation or groundwater recharge.
- Upgradient groundwater in both aquifers display a greater depletion compared to the GMWL, indicating that the groundwater is becoming more enriched in oxygen-18 and deuterium in the downgradient direction, which may be a function of evapotranspiration.

The 2021 second semiannual monitoring event show results that are consistent with historical data.

4.4 Statistical Analysis

In addition to the graphical representation of concentration trends, the results were analyzed using the Mann-Kendall (M-K), non-parametric statistical test to evaluate trends as directed in COC S&W-20, Part E. The M-K test compares the most recent round of groundwater data with the results of historical rounds. The statistical analysis tests whether the trend in the data set is increasing, decreasing, or stable/has no determined trend. The M-K test typically requires a minimum data set of between 4 to 10 values, and M-K tests performed on data sets within this range may not necessarily yield reliable results. The M-K test results are also subject to seasonal variations when there is a limited data set.

For this reporting period, the Mann-Kendall statistical analysis was applied to wells 23a, TW-1, TW-2, OBS-1, DM-1, DM-2, DM-3, PW-0, PW-1, and PW-2. A summary of the results is included in **Appendix C**. The analysis was run for arsenic, barium, calcium, chloride, selenium, sulfate, specific conductance, total dissolved solids, and zinc for each well and trend direction is reported at the 95% confidence interval. Additional constituents that are projected to be present in the wastewater discharge in the evaporation ponds, as identified in the WDR (CRWQCB, 2013b), either lack sufficient data to be statistically analyzed (chromium, copper, lead, mercury, and nickel) or have not been detected above reporting limits to date (antimony, cadmium, and cobalt). The M-K statistical analysis will be applied to these constituents once enough data points are available. Below is a summary of the M-K statistical analysis for this reporting period:

- TW-1: No increasing trends identified.
- TW-2: An increasing trend was identified only for barium.
- OBS-1: No increasing trends identified.
- 23a: No increasing trends identified.
- DM-1: No increasing trends identified.
- DM-2: An increasing trend was identified only for chloride.
- DM-3: No increasing trends identified.
- PW-0: An increasing trend was identified only for specific conductivity.

- PW-1: There is not enough data available for this well to perform the Mann-Kendall analysis.
- PW-2: No increasing trends identified.

4.5 Quality Assurance/Quality Control

As documented in the attached laboratory reports (**Appendix D**), groundwater samples collected from network wells during the reporting period were received by the laboratory in good condition, within the temperature limits required, and analyzed within the required holding times using the specified methods (with the exception of pH, which has a 15-minute hold time).

None of the analytes were detected in the laboratory method blank samples.

Matrix spike/matrix spike duplicate (MS/MSD) and laboratory control sample (LCS) recoveries for each method and analytical batch were within the laboratory's established control limits for the final report, with the following exceptions:

- The spike recovery was outside acceptable limits for the MS and/or MSD due to possible matrix interference. The LCS was within acceptable criteria. The following analytes were potentially affected:
 - Magnesium
- The percent recovery was outside of established control limits due to matrix interference and/or sample dilution due to matrix effect. The batch was accepted based on acceptable LCS recovery. The following analytes were potentially affected:
 - Fluoride, Chloride, and Sulfate

Duplicate sample control: For this event, a duplicate sample (named DUP) was collected from sample point PW-2. The sample was submitted to the laboratory without date or time qualifiers. For this event, all sample results for PW-2 and DUP agreed within 10% except for the following:

- Zinc by EPA Method 200.8, which was reported at concentrations of 2.1 and 1.2 µg/l, respectively (43% difference); and,
- Total Dissolved Solids by Standard Method 2540C, which was reported at concentrations of 1,300 and 2,100 mg/L, respectively (38% difference).

5.0 ANNUAL SUMMARY

Groundwater analytical data for calendar year 2021 are generally consistent with historical analytical data. However, the characteristic seasonal increase of chloride and sulfate in the fourth quarter of the year did not occur this year. This is likely due to the extended drought conditions experienced by the area.

Well PW-2 was the only water production well consistently utilized during the calendar year, as PW-0 remains on standby and was turned on only intermittently for testing, maintenance, and sampling, and PW-1 is sealed indefinitely. The Mann-Kendall test for trends typically requires a minimum data set of between 4 to 10 values collected at regular intervals throughout the year to encompass seasonal changes. Currently, all wells but PW-1 have a data set large enough to perform the M-K test. This is the first year that there was enough data from PW-0 to perform the M-K test.

The following is a list of the analytes that have displayed increasing trends during the 2021 calendar year:

- TW-2 displayed an increasing trend for barium in both the 2nd and 4th quarters.
- DM-2 displayed an increasing trend for chloride in the 2nd and 4th quarters.
- PW-0 displayed an increasing trend for conductivity in the 4th quarter.

No additional analytes could be added to the M-K analysis this year.

The stable isotope analysis returned results within the normal range through the entire 2021 calendar year.

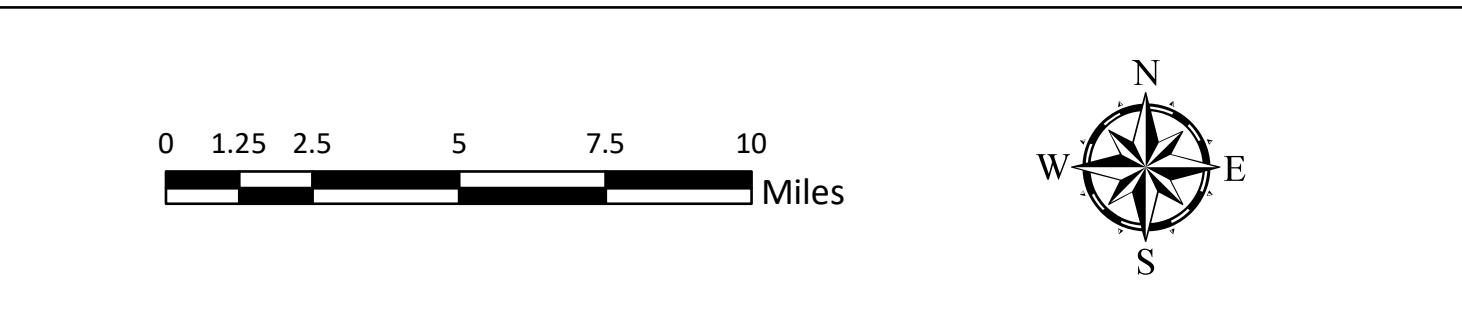
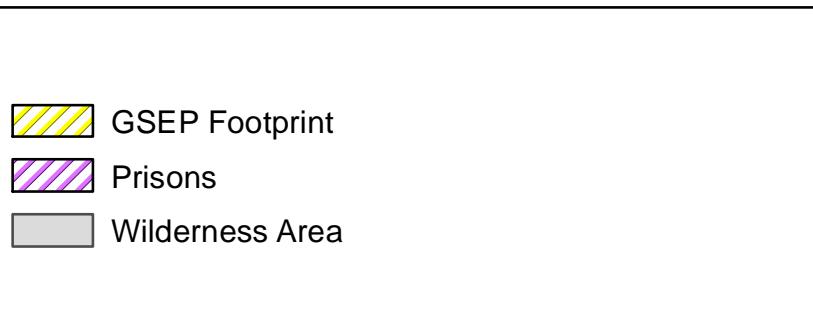
6.0 CONCLUSIONS

Based on the available data, it does not appear the GSEP has negatively impacted the groundwater quality in the Chuckwalla Basin or within a 10-mile radius of the GSEP facility to date. All available groundwater quality data is generally stable and consistent with historical data.

7.0 REFERENCES

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FIGURES

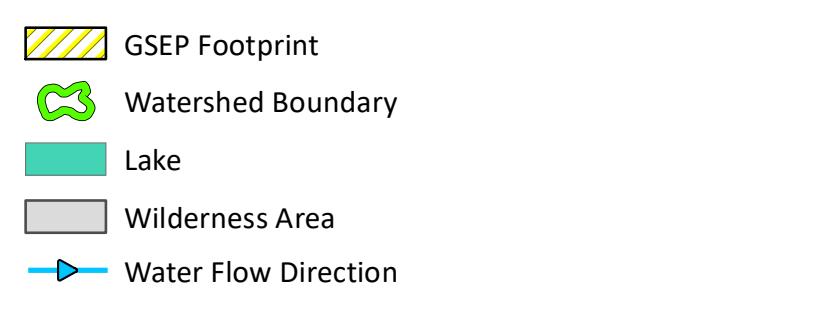
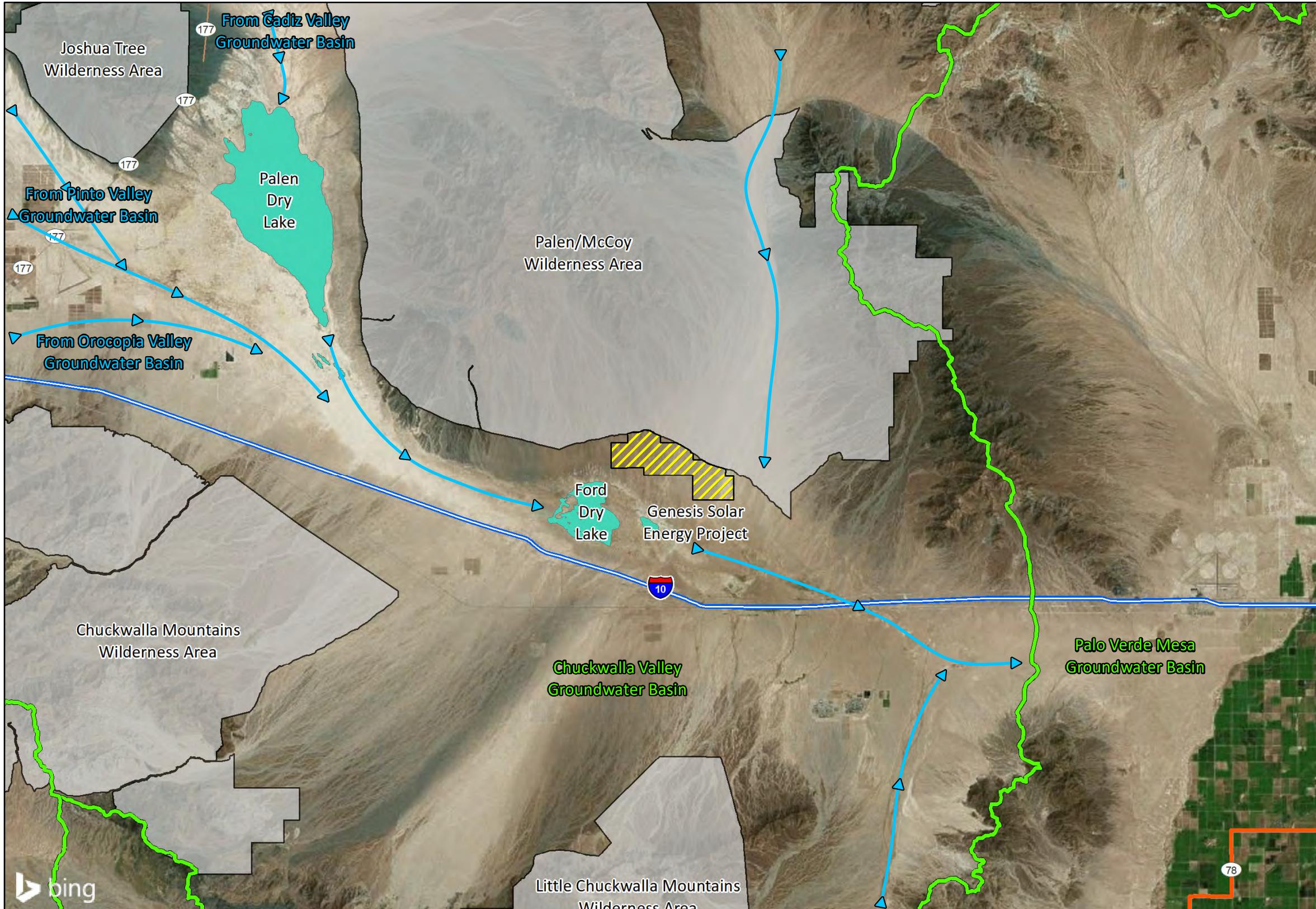


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 (949) 580-2800

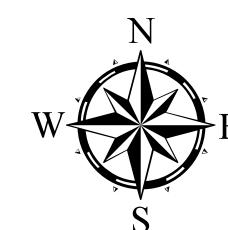
Project Number:
 196-004-06

Genesis Solar Energy Project
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 Blythe, California 92225

Figure 1
 Site Vicinity Map



0 1.25 2.5 5 7.5 10 Miles

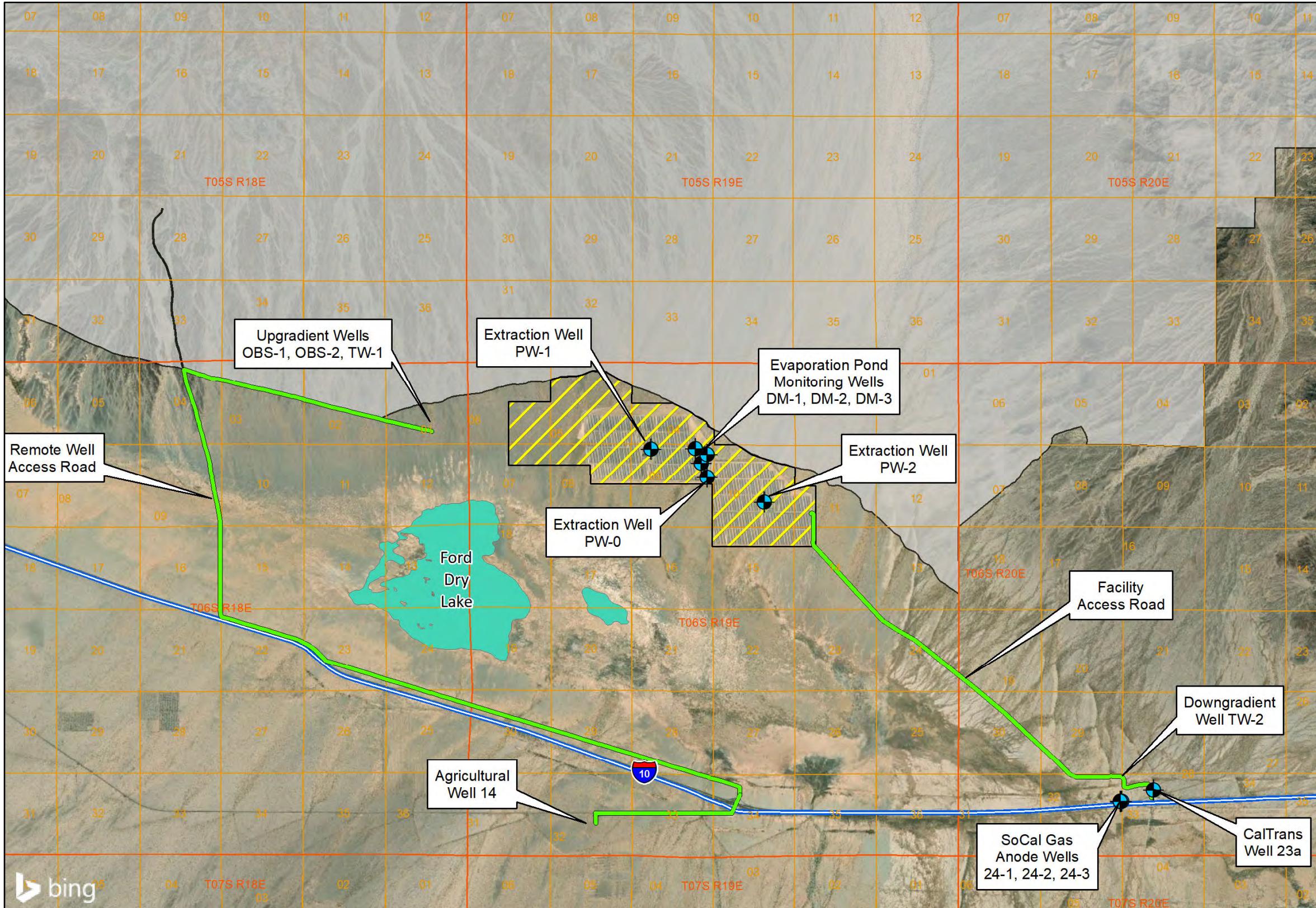


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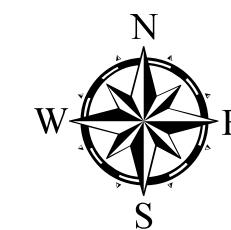
Figure 2
Hydrogeologic Setting



Legend

- GSEP Footprint
- Lake
- Wilderness Area
- Access Road
- Active Monitoring Wells

0 0.5 1 2 3 4 Miles

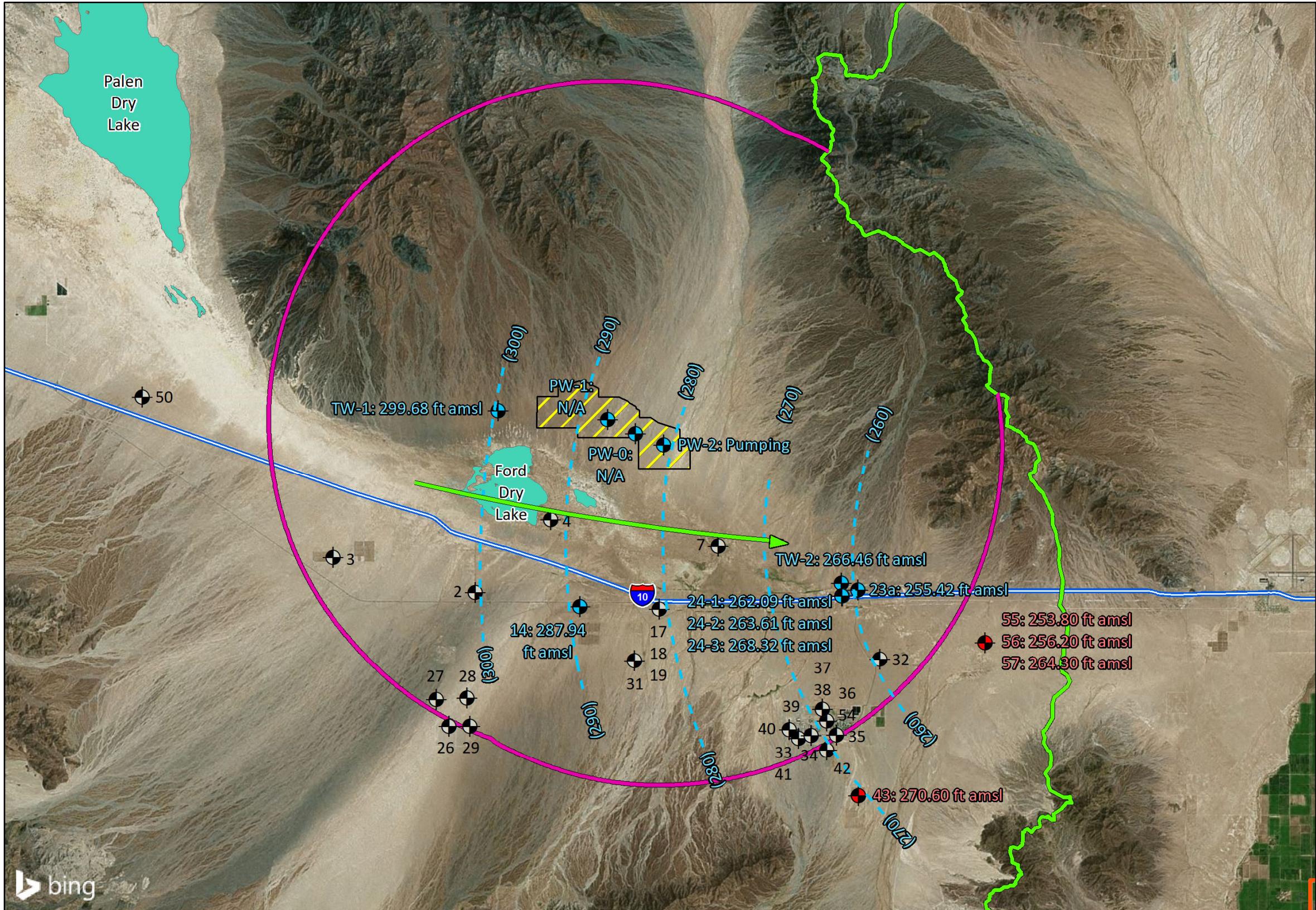


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Figure 3
Groundwater Monitoring Area
and Well Locations



TABLES

TABLE 1
INVENTORY OF WELLS IN THE GROUNDWATER MONITORING AREA
 Genesis Solar Energy Project, Riverside County, California

Well ID	State Well Number	Other Name	Owner	Installation Date	Use/Status	Well Casing Diameter (inches)	Approximate Ground Surface Elevation (feet amsl)	Top Of Casing Elevation (feet amsl)	Well Depth (feet bgs)	Screened Interval (feet bgs)	Geologic Unit
WELLS INCLUDED IN THE GROUNDWATER MONITORING PROGRAM											
OBS-1 ¹	--	Shallow Observation Well 1	Genesis Solar, LLC	5/9/2009	Monitoring / Active	5	385.857	388.3	160	100 to 150	Alluvium
OBS-2-270 ^{1,2}	--	Nested Observation Well 2	Genesis Solar, LLC	7/2/2009	Buried Transducer / Inactive	--	385.617	388.14	270	265 to 275	Bouse Formation
OBS-2-315 ^{1,2}	--	Nested Observation Well 2	Genesis Solar, LLC	7/2/2009	Buried Transducer / Inactive	--	385.617	388.14	315	304 to 327	Bouse Formation
OBS-2-370 ^{1,2}	--	Nested Observation Well 2	Genesis Solar, LLC	7/2/2009	Buried Transducer / Inactive	--	385.617	388.14	370	359 to 374	Bouse Formation
OBS-2-400 ^{1,2}	--	Nested Observation Well 2	Genesis Solar, LLC	7/2/2009	Buried Transducer / Inactive	--	385.617	388.14	400	387 to 418	Bouse Formation
TW-1 ¹	--	Test Well 1	Genesis Solar, LLC	5/22/2009	Monitoring / Active	5	385.91	387.4	565	340 to 564	Bouse Formation
TW-2 ¹	--	Test Well 2	Genesis Solar, LLC	12/9/2009	Monitoring and Dust Control / Active	5	390.003	393.47	1,841	793-873, 1042-1123, 1439-1601, 1739-1820	Bouse Formation / Fanglomerate
PW-0	--	Production Well 0	Genesis Solar, LLC	7/9/2011	Production Well	10	--	--	1,251	882-1002, 1226-1251	Bouse Formation / Fanglomerate
PW-1	--	Production Well 1	Genesis Solar, LLC	8/14/2011	Production Well	10	--	--	1,360	930-950, 990-1000, 1040-1100, 1120-1140, 1160-1200, 1260-1360	Bouse Formation / Fanglomerate
PW-2	--	Production Well 2	Genesis Solar, LLC	9/15/2011	Production Well	10	--	--	1,125	770-930, 980-1120	Bouse Formation
DM-1	--	Detection Monitoring Well 1	Genesis Solar, LLC	2/22/2012	Monitoring / Active	4	--	391.49	120	100 to 120	Alluvium
DM-2	--	Detection Monitoring Well 2	Genesis Solar, LLC	2/21/2012	Monitoring / Active	4	--	391.32	120	100 to 120	Alluvium
DM-3	--	Detection Monitoring Well 3	Genesis Solar, LLC	2/20/2012	Monitoring / Active	4	--	388.34	120	100 to 120	Alluvium
14 ^{1,3}	6S/19E-32	--	Lorne Froats (AZCA Drilling)	5/1/1991	Domestic/ Irrigation/ Dust Control	12 to 10	393.548	388.14	982 (obstructed at 450)	890 to 940	Fanglomerate
23a ^{4,4}	6S/20E-33C1	CalTrans Well @ WWRS	CalTrans	Unknown	Water Supply / Inactive	8	397.28	392.1	1,825	1800-1825	Fanglomerate
24-1 ^{1,5}	6S/20E-33	SCG Anode Well	So Cal Gas	4/29/1989	Anode / Inactive	2	389.3	389.4	435	235 to 435	Alluvium/Bouse Formation
24-2 ⁵	6S/20E-33	SCG Anode Well	So Cal Gas	Unknown	Anode / Inactive	1	389.09	388.86	Obstructed at 373 feet	235 to 435	Alluvium/Bouse Formation
24-3 ⁵	6S/20E-33	SCG Anode Well	So Cal Gas	Unknown	Anode / Inactive	1	388.2	392.04	Unknown	--	Alluvium/Bouse Formation
ADDITIONAL WELLS IN THE CHUCKWALLA VALLEY GROUNDWATER BASIN WITHIN 10 MILES OF THE SITE FOR WHICH MONITORING DATA IS AVAILABLE											
2	6S/18E-36E1	--	CA Jojoba Research and Development	12/18/1981	Irrigation	10 to 6	424	--	940	250 to 290 770 to 810	Alluvium/Bouse Formation
3	6S/18E-29	Siddall Well	Agra Energy Corp.	2/26/1982	Irrigation	20 to 8	498	--	957	560 to 940	Bouse Formation
4	6S/19E-19J1	--	--	--	Unused	12	354	--	--	--	--
9	6S/19E-28R1	--	--	--	Unused	--	354	--	--	--	--
15	6S/19E-32K1	--	--	--	--	12.5	390.2	--	Obstructed at 526	--	Bouse Formation
16	6S/19E-32K2	--	--	--	--	10.5	390	--	Obstructed at 297 feet	--	Bouse Formation
22	6S/20E-33L1	--	--	--	Unknown / Destroyed	--	--	--	--	--	Bouse Formation
23	6S/20E-33C1	--	--	--	Unknown / Destroyed	10	392	--	400	--	--
26	7S/18E-14F1	--	U.S. AgricResearch and Development	12/26/1982	Irrigation	16 to 10	562.58	--	1,000 (obstructed at 952 feet)	410 to 630 750 to 770 810 to 870	Alluvium/Bouse Formation
27	7S/18E-11N1	--	--	--	Unused	16	555	--	486.4	--	Bouse Formation
28	7S/18E-11R1	--	--	--	Unused	16	520	--	779.4	--	Bouse Formation
29	7S/18E-14H1	--	U.S. AgricResearch and Development	1/16/1983	Irrigation	10	545.91	--	985 (obstructed at 950 feet)	420 to 460, 500 to 520, 540 to 580, 620-820, 840-990	Bouse Formation
31	7S/19E-4R1	Teaque Well	--	--	Unused	12	423.89	--	242.2	--	Alluvium
32	7S/20E-4R1	Vada McBride	--	--	Unused	16	418	--	315.7	--	Bouse Formation
33	7S/20E-16M1	--	CA Department of Corrections	--	--	30 to 16	456.02	--	1,200	690 to 1190	Bouse Formation/ Fanglomerate
34	7S/20E-17L1	WP-4	CA Department of Corrections	9/8/1992	Public Water Supply	24	458.3	--	1,200	690 to 1190	Bouse Formation/ Fanglomerate
35	7S/20E-17K1	--	CA Department of Corrections	12/20/1989	--	30 to 16	456.48	--	1,200	690 to 1190	Bouse Formation/ Fanglomerate
36 ⁶	7S/20E-17G1	--	CA Department of Corrections	12/30/1987	Industrial	30 to 16 to 10	443.5	--	1,200	690 to 1190	Bouse Formation/ Fanglomerate
37 ⁶	7S/20E-17C1	78, North Well	CA Department of Corrections	7/28/1981	Irrigation	14-10	433.09	--	1,050	750 to 1,050	Bouse Formation/ Fanglomerate
39	7S/20E-18H1	--	CA Department of Corrections	--	--	--	442.9	--	1,139	--	Bouse Formation/ Fanglomerate
40	7S/20E-18K1	WP-6	CA Department of Corrections	11/4/1992	Public Water Supply	15 to 10	449.4	--	1,200	690 to 1,200	Bouse Formation/ Fanglomerate
41	7S/20E-18R1	WP-5	CA Department of Corrections	10/24/1992	Public Water Supply	13.5 to 10	453.6	--	1,160	--	Fanglomerate
42	7S/20E-20B1	79 / Observation Well 3	--	6/4/1905	Irrigation	16 to 12	470	--	1,100	738 to 1,100	Bouse Formation/ Fanglomerate
43	7S/20E-28C1	7S/20E-28F1/80	Jojoba Inc.	3/15/1982	Irrigation	10 to 8	505.6	--	830	510 to 600 and 680 to 780	Bouse Formation
44	7S/20E-28C2	--	Jojoba Southwest	11/30/1989	Irrigation	16 to 12	505.3	--	1,100	700 to 1,100	Bouse Formation/ Fanglomerate
47	8S/20E-10N2	60	--	1984	--	4	621	--	872	500 to 580, 620 to 640, 710 to 850	Bouse Formation
50	6S/17E-3M1	--	--	--	--	--	566	--	818	--	Bouse Formation
54	8S/20E-28N1	--	--	--	--	--	654.5	--	500	--	Bouse Formation
55	7S/20E-1M1	CWV1#1	USGS	1/23/2012	Exploratory	2	415.4	--	993	973 to 993	Bouse Formation
56	7S/20E-1M2	CWV1#2	USGS	1/23/2012	Exploratory	2	415.4	--	505	485 to 505	Pinto Formation
57	7S/20E-1M3	CWV1#3	USGS	1/23/2012	Exploratory	2	415.4	--	230	210 to 230	Alluvium

TABLE 1
INVENTORY OF WELLS IN THE GROUNDWATER MONITORING AREA
 Genesis Solar Energy Project, Riverside County, California

Well ID	State Well Number	Other Name	Owner	Installation Date	Use/Status	Well Casing Diameter (inches)	Approximate Ground Surface Elevation (feet amsl)	Top Of Casing Elevation (feet amsl)	Well Depth (feet bgs)	Screened Interval (feet bgs)	Geologic Unit
ADDITIONAL WELLS IN THE CHUCKWALLA VALLEY GROUNDWATER BASIN WITHIN 10 MILES OF THE SITE FOR WHICH MONITORING DATA ARE NOT AVAILABLE											
1	5S/20E-16M1	McCoy Spring and DWR-17	--	--	Unused	--	889	--	--	--	--
5	6S/19E-25P1	--	--	--	Unknown / Destroyed	10	360	--	85.7	--	Alluvium
6	6S/19E-25R1	--	--	--	Unknown / Destroyed	10	360	--	61.9	--	Alluvium
7	6S/19E-25	Boreholes 1A, 1B, 1C	USGS	1978	Exploratory Borehole / Abandoned	--	358	--	--	--	--
8	6S/19E-26Z1	--	--	--	Unknown / Destroyed	--	--	--	--	--	--
10	6S/19E-29E1	--	--	--	Destroyed/ Collapsed	6	377	--	Obstructed at 19.7	--	--
11	6S/19E-30H1	--	--	--	Destroyed	6	370	--	28.7	--	Alluvium
12	6S/19E-31Z1	--	--	--	Destroyed	--	--	--	--	--	--
13	6S/19E-32	--	Jacado Agri Corp.	6/27/1982	Destroyed	22 to 18 to 12	392	--	732	307 to 327 365 to 732	Bouse Formation
17	6S/19E-33A1	Hopkins Well and DWR-33X1	--	1911	Destroyed	12 to 8	361	--	1,200 (obstructed at 267 feet)	1,175 to 1,200	Fanglomerate
18	6S/19E-34	--	So Cal Gas	4/29/1989	Anode	1	368	--	400	200 to 400	Alluvium/Bouse Formation
19	6S/19E-34	--	So Cal Gas	7/15/1981	Other	--	369	--	274	0 to 274	Alluvium/Bouse Formation
20	6S/19E-36A1	--	--	--	Destroyed	10	365	--	64.8	--	Alluvium
21	6S/20E-30Z1	Ford Well	--	--	Stock / Destroyed	10	--	--	--	--	--
25	6S/20E-33	--	So Cal Gas	7/20/1981	Monitoring / Presumed Destroyed	1	397	--	278	0 to 278	Alluvium/Bouse Formation
30	7S/18E-14H1	--	--	--	Destroyed	6	546	--	123.9	--	Alluvium
38	7/20E-17C2	Observation Well 1	CA Department of Corrections	6/20/1986	Monitoring / Presumed Destroyed	1 1/4	433	--	1,040	795 to 815 and 995 to 1,015	Bouse Formation/Fanglomerate
45	7S/20E-28	--	Chuckwalla Jojoba Inc Great American Securities	6/6/1989	Test Hole/Abandoned	--	505	--	825	--	--
46	7S/20E-27L1	--	--	--	Destroyed	8	517	--	53.6	--	Alluvium

Notes:

-- = information not available or unknown

amsl = above mean sea level

bgs = below ground surface

1. Wells were surveyed on February 8 & 9, 2011. Ground surface elevation survey measurement taken at top of concrete pad.

2. Nested pressure transducer buried in place.

3. Well is obstructed at 450 feet and therefore not suitable for groundwater quality monitoring. Used for groundwater level monitoring only.

4. Well completion and screened interval determined by video log performed on 11/09/2010

5. Anode well completed with Coke Breeze and not considered to be suitable for water quality sampling and used for groundwater level monitoring program only.

6. No access port for groundwater level monitoring; used for groundwater quality monitoring only.

TABLE 2
GROUNDWATER LEVEL MEASUREMENTS
 Genesis Solar Energy Project, Riverside County, California

Well ID	Date	Source	Top of Casing Elevation (feet amsl) ¹	Depth to Water (feet below TOC)	Groundwater Elevation (feet amsl)	Difference from Baseline (feet)	Comments / Use
WELLS INCLUDED IN THE GROUNDWATER LEVEL MONITORING PROGRAM							
TW-1	5/23/2009	WorleyParsons	387.40	89.75	297.65	N/A	Monitoring
TW-1	11/10/2010	WorleyParsons	387.40	86.65	300.75	0.00	Baseline
TW-1	2/8/2011	WorleyParsons	387.40	86.67	300.73	-0.02	Monitoring
TW-1	6/8/2011	WorleyParsons	387.40	86.58	300.82	0.07	Monitoring
TW-1	9/25/2011	WorleyParsons	387.40	86.48	300.92	0.17	Monitoring
TW-1	12/13/2011	WorleyParsons	387.40	86.25	301.15	0.40	Monitoring
TW-1	2/21/2012	WorleyParsons	387.40	86.58	300.82	0.07	Monitoring
TW-1	5/23/2012	WorleyParsons	387.40	86.43	300.97	0.22	Monitoring
TW-1	7/26/2012	WorleyParsons	387.40	86.47	300.93	0.18	Monitoring
TW-1	10/23/2012	WorleyParsons	387.40	86.43	300.97	0.22	Monitoring
TW-1	3/29/2013	WorleyParsons	387.40	86.46	300.94	0.19	Monitoring
TW-1	6/20/2013	WorleyParsons	387.40	86.43	300.97	0.22	Monitoring
TW-1	8/13/2013	WorleyParsons	387.40	86.43	300.97	0.22	Monitoring
TW-1	11/14/2013	WorleyParsons	387.40	86.53	300.87	0.12	Monitoring
TW-1	2/26/2014	WorleyParsons	387.40	86.49	300.91	0.16	Monitoring
TW-1	5/20/2014	Northstar	387.40	86.47	300.93	0.18	Monitoring
TW-1	8/8/2014	Northstar	387.40	86.46	300.94	0.19	Monitoring
TW-1	12/4/2014	Northstar	387.40	86.50	300.90	0.15	Monitoring
TW-1	3/26/2015	Northstar	387.40	86.56	300.84	0.09	Monitoring
TW-1	6/11/2015	Northstar	387.40	86.50	300.90	0.15	Monitoring
TW-1	12/10/2015	Northstar	387.40	86.56	300.84	0.09	Monitoring
TW-1	6/2/2016	Northstar	387.40	86.58	300.82	0.07	Monitoring
TW-1	11/30/2016	Northstar	387.40	86.70	300.70	-0.05	Monitoring
TW-1	6/1/2017	Northstar	387.40	86.60	300.80	0.05	Monitoring
TW-1	12/5/2017	Northstar	387.40	86.70	300.70	-0.05	Monitoring
TW-1	6/1/2018	Northstar	387.40	86.61	300.79	0.04	Monitoring
TW-1	12/4/2018	Northstar	387.40	86.75	300.65	-0.10	Monitoring
TW-1	6/13/2019	Northstar	387.40	86.70	300.70	-0.05	Monitoring
TW-1	12/5/2019	Northstar	387.40	86.70	300.70	-0.05	Monitoring
TW-1	6/5/2020	Northstar	387.40	86.78	300.62	-0.13	Monitoring
TW-1	12/3/2020	Northstar	387.40	87.05	300.35	-0.40	Monitoring
TW-1	6/4/2021	Northstar	387.40	87.10	300.30	-0.45	Monitoring
TW-1	12/3/2021	Northstar	387.40	87.72	299.68	-1.07	Monitoring
TW-2	1/5/2010	WorleyParsons	393.47	132.37	261.10	N/A	Monitoring
TW-2	11/9/2010	WorleyParsons	393.47	127.09	266.38	0.00	Baseline
TW-2	1/19/2011	WorleyParsons	393.47	125.68	267.79	1.41	Monitoring
TW-2	2/8/2011	WorleyParsons	393.47	Pumping		N/A	Pumping
TW-2	6/9/2011	WorleyParsons	393.47	126.46	267.01	0.63	Monitoring
TW-2	9/26/2011	WorleyParsons	393.47	128.04	265.43	-0.95	Monitoring
TW-2	12/14/2011	WorleyParsons	393.47	127.75	265.72	-0.66	Monitoring
TW-2	2/21/2012	WorleyParsons	393.47	127.85	265.62	-0.76	Monitoring
TW-2	5/24/2012	WorleyParsons	393.47	127.88	265.59	-0.79	Monitoring
TW-2	7/26/2012	WorleyParsons	393.47	128.09	265.38	-1.00	Monitoring
TW-2	10/23/2012	WorleyParsons	393.47	127.87	265.60	-0.78	Monitoring
TW-2	3/28/2013	WorleyParsons	393.47	127.22	266.25	-0.13	Monitoring
TW-2	6/20/2013	WorleyParsons	393.47	127.52	265.95	-0.43	Monitoring
TW-2	8/13/2013	WorleyParsons	393.47	127.88	265.59	-0.79	Monitoring
TW-2	11/12/2013	WorleyParsons	393.47	128.07	265.40	-0.98	Monitoring
TW-2	2/26/2014	WorleyParsons	393.47	127.00	266.47	0.09	Monitoring
TW-2	5/20/2014	Northstar	393.47	127.18	266.29	-0.09	Monitoring
TW-2	8/8/2014	Northstar	393.47	127.40	266.07	-0.31	Monitoring
TW-2	12/4/2014	Northstar	393.47	127.22	266.25	-0.13	Monitoring
TW-2	3/26/2015	Northstar	393.47	127.08	266.39	0.01	Monitoring
TW-2	6/11/2015	Northstar	393.47	127.00	266.47	0.09	Monitoring
TW-2	12/10/2015	Northstar	393.47	126.71	266.76	0.38	Monitoring
TW-2	6/2/2016	Northstar	393.47	126.60	266.87	0.49	Monitoring
TW-2	11/30/2016	Northstar	393.47	126.86	266.61	0.23	Monitoring
TW-2	6/1/2017	Northstar	393.47	126.60	266.87	0.49	Monitoring
TW-2	12/5/2017	Northstar	393.47	126.75	266.72	0.34	Monitoring
TW-2	6/1/2018	Northstar	393.47	126.78	266.69	0.31	Monitoring
TW-2	12/4/2018	Northstar	393.47	127.38	266.09	-0.29	Monitoring
TW-2	6/14/2019	Northstar	393.47	127.05	266.42	0.04	Monitoring
TW-2	12/5/2019	Northstar	393.47	126.75	266.72	0.34	Monitoring
TW-2	6/5/2020	Northstar	393.47	126.60	266.87	0.49	Monitoring
TW-2	12/3/2020	Northstar	393.47	126.98	266.49	0.11	Monitoring
TW-2	6/4/2021	Northstar	393.47	126.60	266.87	0.49	Monitoring
TW-2	12/2/2021	Northstar	393.47	127.01	266.46	0.08	Monitoring
OBS-1	5/25/2009	WorleyParsons	388.30	79.22	309.08	N/A	Monitoring
OBS-1	11/10/2010	WorleyParsons	388.30	77.67	310.63	0.00	Baseline
OBS-1	2/8/2011	WorleyParsons	388.30	77.98	310.32	-0.31	Monitoring

TABLE 2
GROUNDWATER LEVEL MEASUREMENTS
 Genesis Solar Energy Project, Riverside County, California

Well ID	Date	Source	Top of Casing Elevation (feet amsl) ¹	Depth to Water (feet below TOC)	Groundwater Elevation (feet amsl)	Difference from Baseline (feet)	Comments / Use
OBS-1	6/8/2011	WorleyParsons	388.30	77.99	310.31	-0.32	Monitoring
OBS-1	9/25/2011	WorleyParsons	388.30	78.08	310.22	-0.41	Monitoring
OBS-1	12/13/2011	WorleyParsons	388.30	78.29	310.01	-0.62	Monitoring
OBS-1	2/21/2012	WorleyParsons	388.30	78.17	310.13	-0.50	Monitoring
OBS-1	5/23/2012	WorleyParsons	388.30	78.14	310.16	-0.47	Monitoring
OBS-1	7/26/2012	WorleyParsons	388.30	78.15	310.15	-0.48	Monitoring
OBS-1	10/23/2012	WorleyParsons	388.30	78.09	310.21	-0.42	Monitoring
OBS-1	3/29/2013	WorleyParsons	388.30	78.06	310.24	-0.39	Monitoring
OBS-1	6/20/2013	WorleyParsons	388.30	78.05	310.25	-0.38	Monitoring
OBS-1	8/13/2013	WorleyParsons	388.30	78.07	310.23	-0.40	Monitoring
OBS-1	11/14/2013	WorleyParsons	388.30	78.15	310.15	-0.48	Monitoring
OBS-1	2/26/2014	WorleyParsons	388.30	78.12	310.18	-0.45	Monitoring
OBS-1	5/20/2014	Northstar	388.30	78.06	310.24	-0.39	Monitoring
OBS-1	8/8/2014	Northstar	388.30	78.05	310.25	-0.38	Monitoring
OBS-1	12/4/2014	Northstar	388.30	78.10	310.20	-0.43	Monitoring
OBS-1	3/26/2015	Northstar	388.30	78.15	310.15	-0.48	Monitoring
OBS-1	6/11/2015	Northstar	388.30	78.10	310.20	-0.43	Monitoring
OBS-1	12/10/2015	Northstar	388.30	78.20	310.10	-0.53	Monitoring
OBS-1	6/2/2016	Northstar	388.30	78.14	310.16	-0.47	Monitoring
OBS-1	11/30/2016	Northstar	388.30	78.20	310.10	-0.53	Monitoring
OBS-1	6/1/2017	Northstar	388.30	78.13	310.17	-0.46	Monitoring
OBS-1	12/5/2017	Northstar	388.30	78.18	310.12	-0.51	Monitoring
OBS-1	6/1/2018	Northstar	388.30	78.10	310.20	-0.43	Monitoring
OBS-1	12/4/2018	Northstar	388.30	78.18	310.12	-0.51	Monitoring
OBS-1	6/13/2019	Northstar	388.30	78.12	310.18	-0.45	Monitoring
OBS-1	12/5/2019	Northstar	388.30	78.10	310.20	-0.43	Monitoring
OBS-1	6/5/2020	Northstar	388.30	78.10	310.20	-0.43	Monitoring
OBS-1	12/3/2020	Northstar	388.30	78.25	310.05	-0.58	Monitoring
OBS-1	6/4/2021	Northstar	388.30	78.15	310.15	-0.48	Monitoring
OBS-1	12/3/2021	Northstar	388.30	78.22	310.08	-0.55	Monitoring
OBS-2-270 ⁶	7/9/2009	WorleyParsons	388.14	78.75	309.39	N/A	Monitoring
OBS-2-270 ⁶	11/10/2010	WorleyParsons	388.14	80.56	307.58	0.00	Baseline
OBS-2-270 ⁶	2/8/2011	WorleyParsons	388.14	80.61	307.53	-0.05	Monitoring
OBS-2-270 ⁶	2/8/2011	WorleyParsons	388.14	80.68	307.46	-0.12	Monitoring
OBS-2-270 ⁶	9/25/2011	WorleyParsons	388.14	80.77	307.37	-0.21	Monitoring
OBS-2-270 ⁶	12/14/2011	WorleyParsons	388.14	NM ²		N/A	Monitoring
OBS-2-270 ⁶	2/21/2012	WorleyParsons	388.14	80.47	307.67	0.09	Monitoring
OBS-2-270 ⁶	5/25/2012	WorleyParsons	388.14	81.28	306.86	-0.72	Monitoring
OBS-2-270 ⁶	7/26/2012	WorleyParsons	388.14	81.00	307.14	-0.44	Monitoring
OBS-2-270 ⁶	10/23/2012	WorleyParsons	388.14	81.01	307.13	-0.45	Monitoring
OBS-2-270 ⁶	3/29/2013	WorleyParsons	388.14	80.99	307.15	-0.43	Monitoring
OBS-2-270 ⁶	6/20/2013	WorleyParsons	388.14	NM ²		N/A	Monitoring
OBS-2-270 ⁶	8/13/2013	WorleyParsons	388.14	NM ²		N/A	Monitoring
OBS-2-270 ⁶	11/12/2013	WorleyParsons	388.14	81.24	306.90	-0.68	Monitoring
OBS-2-270 ⁶	2/26/2014	WorleyParsons	388.14	81.48	306.66	-0.92	Monitoring
OBS-2-315 ⁶	7/9/2009	WorleyParsons	388.14	80.89	307.25	N/A	Monitoring
OBS-2-315 ⁶	11/10/2010	WorleyParsons	388.14	82.51	305.63	0.00	Baseline
OBS-2-315 ⁶	2/8/2011	WorleyParsons	388.14	82.61	305.53	-0.10	Monitoring
OBS-2-315 ⁶	2/8/2011	WorleyParsons	388.14	82.83	305.31	-0.32	Monitoring
OBS-2-315 ⁶	9/25/2011	WorleyParsons	388.14	83.03	305.11	-0.52	Monitoring
OBS-2-315 ⁶	12/14/2011	WorleyParsons	388.14	NM ²		N/A	Monitoring
OBS-2-315 ⁶	2/21/2012	WorleyParsons	388.14	82.81	305.33	-0.30	Monitoring
OBS-2-315 ⁶	5/25/2012	WorleyParsons	388.14	NM ²		N/A	Monitoring
OBS-2-315 ⁶	7/26/2012	WorleyParsons	388.14	83.38	304.76	-0.87	Monitoring
OBS-2-315 ⁶	10/23/2012	WorleyParsons	388.14	83.43	304.71	-0.92	Monitoring
OBS-2-315 ⁶	3/29/2013	WorleyParsons	388.14	83.45	304.69	-0.94	Monitoring
OBS-2-315 ⁶	6/20/2013	WorleyParsons	388.14	NM ²		N/A	Monitoring
OBS-2-315 ⁶	8/13/2013	WorleyParsons	388.14	NM ²		N/A	Monitoring
OBS-2-315 ⁶	11/12/2013	WorleyParsons	388.14	83.74	304.40	-1.23	Monitoring
OBS-2-315 ⁶	2/26/2014	WorleyParsons	388.14	83.96	304.18	-1.45	Monitoring
OBS-2-370 ⁶	7/9/2009	WorleyParsons	388.14	82.46	305.68	N/A	Monitoring
OBS-2-370 ⁶	11/10/2010	WorleyParsons	388.14	84.60	303.54	0.00	Baseline
OBS-2-370 ⁶	2/8/2011	WorleyParsons	388.14	85.01	303.13	-0.41	Monitoring
OBS-2-370 ⁶	9/25/2011	WorleyParsons	388.14	85.24	302.90	-0.64	Monitoring
OBS-2-370 ⁶	12/14/2011	WorleyParsons	388.14	NM ²		N/A	Monitoring
OBS-2-370 ⁶	2/21/2012	WorleyParsons	388.14	85.05	303.09	-0.45	Monitoring

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GROUNDWATER LEVEL MEASUREMENTS
 Genesis Solar Energy Project, Riverside County, California

Well ID	Date	Source	Top of Casing Elevation (feet amsl) ¹	Depth to Water (feet below TOC)	Groundwater Elevation (feet amsl)	Difference from Baseline (feet)	Comments / Use
OBS-2-370 ⁶	5/25/2012	WorleyParsons	388.14	85.84	302.30	-1.24	Monitoring
OBS-2-370 ⁶	7/26/2012	WorleyParsons	388.14	85.64	302.50	-1.04	Monitoring
OBS-2-370 ⁶	10/23/2012	WorleyParsons	388.14	85.70	302.44	-1.10	Monitoring
OBS-2-370 ⁶	3/29/2013	WorleyParsons	388.14	85.75	302.39	-1.15	Monitoring
OBS-2-370 ⁶	6/20/2013	WorleyParsons	388.14	NM ²		N/A	Monitoring
OBS-2-370 ⁶	8/13/2013	WorleyParsons	388.14	NM ²		N/A	Monitoring
OBS-2-370 ⁶	11/12/2013	WorleyParsons	388.14	86.05	302.09	-1.45	Monitoring
OBS-2-370 ⁶	2/26/2014	WorleyParsons	388.14	86.27	301.87	-1.67	Monitoring
OBS-2-400 ⁶	7/9/2009	WorleyParsons	388.14	86.26	301.88	N/A	Monitoring
OBS-2-400 ⁶	11/10/2010	WorleyParsons	388.14	87.34	300.80	0.00	Baseline
OBS-2-400 ⁶	2/8/2011	WorleyParsons	388.14	87.41	300.73	-0.07	Monitoring
OBS-2-400 ⁶	2/8/2011	WorleyParsons	388.14	87.57	300.57	-0.23	Monitoring
OBS-2-400 ⁶	9/25/2011	WorleyParsons	388.14	87.73	300.41	-0.39	Monitoring
OBS-2-400 ⁶	12/14/2011	WorleyParsons	388.14	NM ²		N/A	Monitoring
OBS-2-400 ⁶	2/21/2012	WorleyParsons	388.14	87.47	300.67	-0.13	Monitoring
OBS-2-400 ⁶	5/25/2012	WorleyParsons	388.14	88.20	299.94	-0.86	Monitoring
OBS-2-400 ⁶	7/26/2012	WorleyParsons	388.14	87.96	300.18	-0.62	Monitoring
OBS-2-400 ⁶	10/23/2012	WorleyParsons	388.14	87.97	300.17	-0.63	Monitoring
OBS-2-400 ⁶	3/29/2013	WorleyParsons	388.14	88.20	299.94	-0.86	Monitoring
OBS-2-400 ⁶	6/20/2013	WorleyParsons	388.14	NM ²		N/A	Monitoring
OBS-2-400 ⁶	8/13/2013	WorleyParsons	388.14	NM ²		N/A	Monitoring
OBS-2-400 ⁶	11/12/2013	WorleyParsons	388.14	88.12	300.02	-0.78	Monitoring
OBS-2-400 ⁶	2/26/2014	WorleyParsons	388.14	88.31	299.83	-0.97	Monitoring
14	6/8/2011	WorleyParsons	388.14	100.98	287.16	0.00	Baseline
14	9/26/2011	WorleyParsons	388.14	100.65	287.49	0.33	Monitoring
14	12/14/2011	WorleyParsons	388.14	100.87	287.27	0.11	Monitoring
14	2/21/2012	WorleyParsons	388.14	100.85	287.29	0.13	Monitoring
14	5/24/2012	WorleyParsons	388.14	100.70	287.44	0.28	Monitoring
14	7/26/2012	WorleyParsons	388.14	100.72	287.42	0.26	Monitoring
14	10/23/2012	WorleyParsons	388.14	100.66	287.48	0.32	Monitoring
14	3/28/2013	WorleyParsons	388.14	100.49	287.65	0.49	Monitoring
14	6/20/2013	WorleyParsons	388.14	100.46	287.68	0.52	Monitoring
14	8/13/2013	WorleyParsons	388.14	100.46	287.68	0.52	Monitoring
14	11/12/2013	WorleyParsons	388.14	NM ⁴		N/A	Monitoring
14	2/26/2014	WorleyParsons	388.14	100.39	287.75	0.59	Monitoring
14	5/20/2014	Northstar	388.14	100.35	287.79	0.63	Monitoring
14	8/8/2014	Northstar	388.14	100.26	287.88	0.72	Monitoring
14	12/4/2014	Northstar	388.14	100.25	287.89	0.73	Monitoring
14	3/26/2015	Northstar	388.14	100.25	287.89	0.73	Monitoring
14	6/11/2015	Northstar	388.14	100.15	287.99	0.83	Monitoring
14	12/10/2015	Northstar	388.14	100.12	288.02	0.86	Monitoring
14	6/2/2016	Northstar	388.14	100.08	288.06	0.90	Monitoring
14	11/30/2016	Northstar	388.14	100.10	288.04	0.88	Monitoring
14	6/2/2017	Northstar	388.14	100.13	288.01	0.85	Monitoring
14 ⁸	12/5/2017	Northstar	388.14	128.75		N/A	Monitoring
14	6/1/2018	Northstar	388.14	100.60	287.54	0.38	Monitoring
14	12/4/2018	Northstar	388.14	100.52	287.62	0.46	Monitoring
14	6/13/2019	Northstar	388.14	100.20	287.94	0.78	Monitoring
14	12/5/2019	Northstar	388.14	100.85	287.29	0.13	Monitoring
14	6/4/2020	Northstar	388.14	100.60	287.54	0.38	Monitoring
14	12/3/2020	Northstar	388.14	100.47	287.67	0.51	Monitoring
14	6/3/2021	Northstar	388.14	100.15	287.99	0.83	Monitoring
14	12/3/2021	Northstar	388.14	100.20	287.94	0.78	Monitoring
23a	11/11/2010	WorleyParsons	392.10	138.05	254.05	0.00	Baseline
23a	2/8/2011	WorleyParsons	392.10	137.12	254.98	0.93	Monitoring
23a	6/7/2011	WorleyParsons	392.10	137.58	254.52	0.47	Monitoring
23a	9/26/2011	WorleyParsons	392.10	138.01	254.09	0.04	Monitoring
23a	12/14/2011	WorleyParsons	392.10	138.88	253.22	-0.83	Monitoring
23a	2/22/2012	WorleyParsons	392.10	137.70	254.40	0.35	Monitoring
23a	5/24/2012	WorleyParsons	392.10	137.74	254.36	0.31	Monitoring
23a	7/26/2012	WorleyParsons	392.10	137.76	254.34	0.29	Monitoring
23a	10/23/2012	WorleyParsons	392.10	137.94	254.16	0.11	Monitoring
23a	3/28/2013	WorleyParsons	392.10	137.27	254.83	0.78	Monitoring
23a	6/20/2013	WorleyParsons	392.10	137.77	254.33	0.28	Monitoring
23a	8/13/2013	WorleyParsons	392.10	137.81	254.29	0.24	Monitoring
23a	11/12/2013	WorleyParsons	392.10	138.01	254.09	0.04	Monitoring
23a	2/25/2014	WorleyParsons	392.10	136.90	255.20	1.15	Monitoring

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GROUNDWATER LEVEL MEASUREMENTS
 Genesis Solar Energy Project, Riverside County, California

Well ID	Date	Source	Top of Casing Elevation (feet amsl) ¹	Depth to Water (feet below TOC)	Groundwater Elevation (feet amsl)	Difference from Baseline (feet)	Comments / Use
23a	5/20/2014	Northstar	392.10	137.15	254.95	0.90	Monitoring
23a	8/8/2014	Northstar	392.10	137.31	254.79	0.74	Monitoring
23a	12/4/2014	Northstar	392.10	137.18	254.92	0.87	Monitoring
23a	3/26/2015	Northstar	392.10	NM ⁷		N/A	Monitoring
23a	6/11/2015	Northstar	392.10	NM ⁷		N/A	Monitoring
23a	12/10/2015	Northstar	392.10	136.60	255.50	1.45	Monitoring
23a	6/2/2016	Northstar	392.10	136.55	255.55	1.50	Monitoring
23a	11/30/2016	Northstar	392.10	136.75	255.35	1.30	Monitoring
23a	6/1/2017	Northstar	392.10	136.40	255.70	1.65	Monitoring
23a	12/5/2017	Northstar	392.10	136.70	255.40	1.35	Monitoring
23a	6/1/2018	Northstar	392.10	136.60	255.50	1.45	Monitoring
23a	12/4/2018	Northstar	392.10	NM ⁷		N/A	Monitoring
23a	6/14/2019	Northstar	392.10	136.60	255.50	1.45	Monitoring
23a	12/5/2019	Northstar	392.10	136.75	255.35	1.30	Monitoring
23a	6/5/2020	Northstar	392.10	136.40	255.70	1.65	Monitoring
23a	12/3/2020	Northstar	392.10	136.80	255.30	1.25	Monitoring
23a	6/4/2021	Northstar	392.10	136.35	255.75	1.70	Monitoring
23a	12/3/2021	Northstar	392.10	136.68	255.42	1.37	Monitoring
24-1	2/8/2011	WorleyParsons	389.40	123.66	265.74	N/A	Monitoring
24-1	6/8/2011	WorleyParsons	389.40	126.71	262.69	0.00	Baseline
24-1	9/26/2011	WorleyParsons	389.40	127.15	262.25	-0.44	Monitoring
24-1	12/13/2011	WorleyParsons	389.40	126.98	262.42	-0.27	Monitoring
24-1	2/22/2012	WorleyParsons	389.40	127.20	262.20	-0.49	Monitoring
24-1	5/23/2012	WorleyParsons	389.40	127.14	262.26	-0.43	Monitoring
24-1	7/26/2012	WorleyParsons	389.40	127.31	262.09	-0.60	Monitoring
24-1	10/23/2012	WorleyParsons	389.40	127.21	262.19	-0.50	Monitoring
24-1	3/28/2013	WorleyParsons	389.40	126.73	262.67	-0.02	Monitoring
24-1	6/19/2013	WorleyParsons	389.40	127.95	261.45	-1.24	Monitoring
24-1	8/14/2013	WorleyParsons	389.40	127.18	262.22	-0.47	Monitoring
24-1	11/13/2013	WorleyParsons	389.40	127.31	262.09	-0.60	Monitoring
24-1	2/25/2014	WorleyParsons	389.40	125.70	263.70	1.01	Monitoring
24-1	5/22/2014	Northstar	389.40	126.84	262.56	-0.13	Monitoring
24-1	8/8/2014	Northstar	389.40	126.91	262.49	-0.20	Monitoring
24-1	12/5/2014	Northstar	389.40	126.91	262.49	-0.20	Monitoring
24-1	3/26/2015	Northstar	389.40	127.10	262.30	-0.39	Monitoring
24-1	6/11/2015	Northstar	389.40	127.02	262.38	-0.31	Monitoring
24-1	12/11/2015	Northstar	389.40	126.80	262.60	-0.09	Monitoring
24-1	6/3/2016	Northstar	389.40	126.79	262.61	-0.08	Monitoring
24-1	11/30/2016	Northstar	389.40	126.93	262.47	-0.22	Monitoring
24-1	6/2/2017	Northstar	389.40	126.88	262.52	-0.17	Monitoring
24-1	12/5/2017	Northstar	389.40	126.95	262.45	-0.24	Monitoring
24-1	6/1/2018	Northstar	389.40	126.91	262.49	-0.20	Monitoring
24-1	12/4/2018	Northstar	389.40	127.36	262.04	-0.65	Monitoring
24-1	6/13/2019	Northstar	389.40	127.27	262.13	-0.56	Monitoring
24-1	12/5/2019	Northstar	389.40	127.10	262.30	-0.39	Monitoring
24-1	6/4/2020	Northstar	389.40	126.90	262.50	-0.19	Monitoring
24-1	12/3/2020	Northstar	389.40	127.30	262.10	-0.59	Monitoring
24-1	6/3/2021	Northstar	389.40	126.98	262.42	-0.27	Monitoring
24-1	12/3/2021	Northstar	389.40	127.31	262.09	-0.60	Monitoring
24-2	2/8/2011	WorleyParsons	388.86	124.91	263.95	0.00	Baseline
24-2	10/23/2011	WorleyParsons	388.86	125.69	263.17	-0.78	Monitoring
24-2	6/19/2013	WorleyParsons	388.86	125.40	263.46	-0.49	Monitoring
24-2	8/14/2013	WorleyParsons	388.86	126.60	262.26	-1.69	Monitoring
24-2	5/22/2014	Northstar	388.86	125.82	263.04	-0.91	Monitoring
24-2	8/8/2014	Northstar	388.86	125.33	263.53	-0.42	Monitoring
24-2	12/5/2014	Northstar	388.86	125.95	262.91	-1.04	Monitoring
24-2	3/26/2015	Northstar	388.86	125.20	263.66	-0.29	Monitoring
24-2	6/11/2015	Northstar	388.86	125.15	263.71	-0.24	Monitoring
24-2	12/11/2015	Northstar	388.86	124.90	263.96	0.01	Monitoring
24-2	6/3/2016	Northstar	388.86	124.90	263.96	0.01	Monitoring
24-2	11/30/2016	Northstar	388.86	125.08	263.78	-0.17	Monitoring
24-2	6/2/2017	Northstar	388.86	125.00	263.86	-0.09	Monitoring
24-2	12/5/2017	Northstar	388.86	125.05	263.81	-0.14	Monitoring
24-2	6/1/2018	Northstar	388.86	125.00	263.86	-0.09	Monitoring
24-2	12/4/2018	Northstar	388.86	125.45	263.41	-0.54	Monitoring
24-2	6/13/2019	Northstar	388.86	125.35	263.51	-0.44	Monitoring
24-2	12/5/2019	Northstar	388.86	125.10	263.76	-0.19	Monitoring
24-2	6/4/2020	Northstar	388.86	124.89	263.97	0.02	Monitoring
24-2	12/3/2020	Northstar	388.86	125.30	263.56	-0.39	Monitoring
24-2	6/3/2021	Northstar	388.86	124.97	263.89	-0.06	Monitoring
24-2	12/3/2021	Northstar	388.86	125.25	263.61	-0.34	Monitoring

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 Genesis Solar Energy Project, Riverside County, California

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24-3	2/8/2011	WorleyParsons	392.04	126.45	265.59	N/A	Monitoring
24-3	10/23/2011	WorleyParsons	392.04	124.48	267.56	0.00	Baseline
24-3	6/19/2013	WorleyParsons	392.04	124.15	267.89	0.33	Monitoring
24-3	8/14/2013	WorleyParsons	392.04	124.44	267.60	0.04	Monitoring
24-3	5/22/2014	Northstar	392.04	124.00	268.04	0.48	Monitoring
24-3	8/8/2014	Northstar	392.04	124.07	267.97	0.41	Monitoring
24-3	12/5/2014	Northstar	392.04	124.05	267.99	0.43	Monitoring
24-3	3/26/2015	Northstar	392.04	123.90	268.14	0.58	Monitoring
24-3	6/11/2015	Northstar	392.04	123.85	268.19	0.63	Monitoring
24-3	12/11/2015	Northstar	392.04	123.55	268.49	0.93	Monitoring
24-3	6/3/2016	Northstar	392.04	123.48	268.56	1.00	Monitoring
24-3	11/30/2016	Northstar	392.04	123.65	268.39	0.83	Monitoring
24-3	6/2/2017	Northstar	392.04	123.55	268.49	0.93	Monitoring
24-3	12/5/2017	Northstar	392.04	123.65	268.39	0.83	Monitoring
24-3	6/1/2018	Northstar	392.04	123.57	268.47	0.91	Monitoring
24-3	12/4/2018	Northstar	392.04	124.08	267.96	0.40	Monitoring
24-3	6/13/2019	Northstar	392.04	123.95	268.09	0.53	Monitoring
24-3	12/5/2019	Northstar	392.04	123.71	268.33	0.77	Monitoring
24-3	6/4/2020	Northstar	392.04	123.43	268.61	1.05	Monitoring
24-3	12/3/2020	Northstar	392.04	123.81	268.23	0.67	Monitoring
24-3	6/3/2021	Northstar	392.04	123.50	268.54	0.98	Monitoring
24-3	12/3/2021	Northstar	392.04	123.72	268.32	0.76	Monitoring
PW-0	12/14/2011	WorleyParsons	385.64	NM ³		N/A	Production/Monitoring
PW-0	2/23/2012	WorleyParsons	385.64	NM ³		N/A	Production/Monitoring
PW-0	5/23/2012	WorleyParsons	385.64	NM ³		N/A	Production/Monitoring
PW-0	7/26/2012	WorleyParsons	385.64	NM ³		N/A	Production/Monitoring
PW-0	10/23/2012	WorleyParsons	385.64	Pumping		N/A	Production/Monitoring
PW-0	3/28/2013	WorleyParsons	385.64	67.71	317.93	N/A	Production/Monitoring
PW-0	6/19/2013	WorleyParsons	385.64	Pumping		N/A	Production/Monitoring
PW-0	8/13/2013	WorleyParsons	385.64	100.49	285.15	N/A	Production/Monitoring
PW-0	11/13/2013	WorleyParsons	385.64	118.10	267.54	N/A	Production/Monitoring
PW-0	2/26/2014	WorleyParsons	385.64	98.46	287.18	N/A	Production/Monitoring
PW-0	5/20/2014	Northstar	385.64	99.60	286.04	N/A	Production/Monitoring
PW-0	8/8/2014	Northstar	385.64	99.06	286.58	N/A	Production/Monitoring
PW-0	12/4/2014	Northstar	385.64	99.65	285.99	N/A	Production/Monitoring
PW-0	3/26/2015	Northstar	385.64	99.62	286.02	N/A	Production/Monitoring
PW-0	6/11/2015	Northstar	385.64	98.00	287.64	N/A	Production/Monitoring
PW-0	12/10/2015	Northstar	385.64	99.55	286.09	N/A	Production/Monitoring
PW-0	6/3/2016	Northstar	385.64	99.78	285.86	N/A	Production/Monitoring
PW-0	11/30/2016	Northstar	385.64	99.50	286.14	N/A	Production/Monitoring
PW-0	6/1/2017	Northstar	385.64	99.32	286.32	N/A	Production/Monitoring
PW-0	12/5/2017	Northstar	385.64	98.00	287.64	N/A	Production/Monitoring
PW-0	5/30/2018	Northstar	385.64	99.27	286.37	N/A	Production/Monitoring
PW-0	12/4/2018	Northstar	385.64	NM ³		N/A	Production/Monitoring
PW-0	6/13/2019	Northstar	385.64	NM ³		N/A	Production/Monitoring
PW-0	12/5/2019	Northstar	385.64	NM ³		N/A	Production/Monitoring
PW-0	6/4/2020	Northstar	385.64	NM ³		N/A	Production/Monitoring
PW-0	12/3/2020	Northstar	385.64	NM ³		N/A	Production/Monitoring
PW-0	6/4/2021	Northstar	385.64	NM ³		N/A	Production/Monitoring
PW-0	12/2/2021	Northstar	385.64	NM ³		N/A	Production/Monitoring
PW-1	12/14/2011	WorleyParsons	384.43	Pumping		N/A	Production/Monitoring
PW-1	2/23/2012	WorleyParsons	384.43	100.84	283.59	N/A	Production/Monitoring
PW-1	5/23/2012	WorleyParsons	384.43	Pumping		N/A	Production/Monitoring
PW-1	7/26/2012	WorleyParsons	384.43	101.09		N/A	Production/Monitoring
PW-1	10/23/2012	WorleyParsons	384.43	100.89	283.54	N/A	Production/Monitoring
PW-1	3/28/2013	WorleyParsons	384.43	100.60	283.83	N/A	Production/Monitoring
PW-1	6/19/2013	WorleyParsons	384.43	Pumping		N/A	Production/Monitoring
PW-1	8/13/2013	WorleyParsons	384.43	109.35	275.08	N/A	Production/Monitoring
PW-1	11/13/2013	WorleyParsons	384.43	99.89	284.54	N/A	Production/Monitoring
PW-1	2/26/2014	WorleyParsons	384.43	98.49	285.94	N/A	Production/Monitoring
PW-1	5/20/2014	Northstar	384.43	NM ⁵		N/A	Production/Monitoring
PW-1	8/8/2014	Northstar	384.43	NM ⁵		N/A	Production/Monitoring
PW-1	12/4/2014	Northstar	384.43	NM ⁵		N/A	Production/Monitoring
PW-1	3/26/2015	Northstar	384.43	NM ⁵		N/A	Production/Monitoring
PW-1	6/11/2015	Northstar	384.43	NM ⁵		N/A	Production/Monitoring
PW-1	12/10/2015	Northstar	384.43	NM ⁵		N/A	Production/Monitoring
PW-1	6/2/2016	Northstar	384.43	NM ⁵		N/A	Production/Monitoring
PW-1	11/30/2016	Northstar	384.43	NM ⁵		N/A	Production/Monitoring

TABLE 2
GROUNDWATER LEVEL MEASUREMENTS
 Genesis Solar Energy Project, Riverside County, California

Well ID	Date	Source	Top of Casing Elevation (feet amsl) ¹	Depth to Water (feet below TOC)	Groundwater Elevation (feet amsl)	Difference from Baseline (feet)	Comments / Use
PW-1	6/1/2017	Northstar	384.43	98.20	286.23	N/A	Production/Monitoring
PW-1	12/5/2017	Northstar	384.43	98.30	286.13	N/A	Production/Monitoring
PW-1	5/30/2018	Northstar	384.43	98.24	286.19	N/A	Production/Monitoring
PW-1	12/4/2018	Northstar	384.43	98.78	285.65	N/A	Production/Monitoring
PW-1	6/13/2019	Northstar	384.43	98.55	285.88	N/A	Production/Monitoring
PW-1	12/5/2019	Northstar	384.43	98.12	286.31	N/A	Production/Monitoring
PW-1	6/4/2020	Northstar	384.43	98.25	286.18	N/A	Production/Monitoring
PW-1	12/3/2020	Northstar	384.43	NM ⁵		N/A	Production/Monitoring
PW-1	6/4/2021	Northstar	384.43	NM ⁵		N/A	Production/Monitoring
PW-1	12/2/2021	Northstar	384.43	NM ⁵		N/A	Production/Monitoring
PW-2	12/14/2011	WorleyParsons	385.15	Pumping		N/A	Production/Monitoring
PW-2	2/23/2012	WorleyParsons	385.15	Pumping		N/A	Production/Monitoring
PW-2	5/23/2012	WorleyParsons	385.15	Pumping		N/A	Production/Monitoring
PW-2	7/26/2012	WorleyParsons	385.15	101.30	283.85	N/A	Production/Monitoring
PW-2	10/23/2012	WorleyParsons	385.15	Pumping		N/A	Production/Monitoring
PW-2	3/28/2013	WorleyParsons	385.15	Pumping		N/A	Production/Monitoring
PW-2	6/19/2013	WorleyParsons	385.15	Pumping		N/A	Production/Monitoring
PW-2	8/13/2013	WorleyParsons	385.15	101.75	283.40	N/A	Production/Monitoring
PW-2	11/12/2013	WorleyParsons	385.15	102.69	282.46	N/A	Production/Monitoring
PW-2	2/26/2014	WorleyParsons	385.15	100.52	284.63	N/A	Production/Monitoring
PW-2	5/20/2014	Northstar	385.15	Pumping		N/A	Production/Monitoring
PW-2	8/8/2014	Northstar	385.15	Pumping		N/A	Production/Monitoring
PW-2	12/4/2014	Northstar	385.15	Pumping		N/A	Production/Monitoring
PW-2	3/26/2015	Northstar	385.15	Pumping		N/A	Production/Monitoring
PW-2	6/11/2015	Northstar	385.15	Pumping		N/A	Production/Monitoring
PW-2	12/10/2015	Northstar	385.15	Pumping		N/A	Production/Monitoring
PW-2	6/2/2016	Northstar	385.15	Pumping		N/A	Production/Monitoring
PW-2	11/30/2016	Northstar	385.15	Pumping		N/A	Production/Monitoring
PW-2	6/1/2017	Northstar	385.15	Pumping		N/A	Production/Monitoring
PW-2	12/5/2017	Northstar	385.15	Pumping		N/A	Production/Monitoring
PW-2	5/30/2018	Northstar	385.15	105.69	279.46	N/A	Production/Monitoring
PW-2	12/4/2018	Northstar	385.15	NM ⁹		N/A	Production/Monitoring
PW-2	6/13/2019	Northstar	385.15	NM ⁹		N/A	Production/Monitoring
PW-2	12/5/2019	Northstar	385.15	NM ⁹		N/A	Production/Monitoring
PW-2	6/4/2020	Northstar	385.15	NM ⁹		N/A	Production/Monitoring
PW-2	12/3/2020	Northstar	385.15	NM ⁹		N/A	Production/Monitoring
PW-2	6/4/2021	Northstar	385.15	NM ⁹		N/A	Production/Monitoring
PW-2	12/2/2021	Northstar	385.15	NM ⁹		N/A	Production/Monitoring
DM-1	2/27/2012	WorleyParsons	391.49	106.63	284.86	N/A	Monitoring
DM-1	5/24/2012	WorleyParsons	391.49	107.11	284.38	0.00	Baseline
DM-1	7/26/2012	WorleyParsons	391.49	107.10	284.39	0.01	Monitoring
DM-1	11/14/2012	WorleyParsons	391.49	108.15	283.34	-1.04	Monitoring
DM-1	3/29/2013	WorleyParsons	391.49	107.34	284.15	-0.23	Monitoring
DM-1	6/19/2013	WorleyParsons	391.49	107.19	284.30	-0.08	Monitoring
DM-1	8/13/2013	WorleyParsons	391.49	107.07	284.42	0.04	Monitoring
DM-1	11/12/2013	WorleyParsons	391.49	107.22	284.27	-0.11	Monitoring
DM-1	2/26/2014	WorleyParsons	391.49	107.13	284.36	-0.02	Monitoring
DM-1	5/22/2014	Northstar	391.49	107.05	284.44	0.06	Monitoring
DM-1	8/8/2014	Northstar	391.49	107.11	284.38	0.00	Monitoring
DM-1	12/4/2014	Northstar	391.49	107.03	284.46	0.08	Monitoring
DM-1	3/26/2015	Northstar	391.49	107.22	284.27	-0.11	Monitoring
DM-1	6/11/2015	Northstar	391.49	107.01	284.48	0.10	Monitoring
DM-1	12/10/2015	Northstar	391.49	106.98	284.51	0.13	Monitoring
DM-1	6/2/2016	Northstar	391.49	107.18	284.31	-0.07	Monitoring
DM-1	11/30/2016	Northstar	391.49	107.27	284.22	-0.16	Monitoring
DM-1	6/1/2017	Northstar	391.49	107.12	284.37	-0.01	Monitoring
DM-1	12/5/2017	Northstar	391.49	107.38	284.11	-0.27	Monitoring
DM-1	5/30/2018	Northstar	391.49	107.10	284.39	0.01	Monitoring
DM-1	12/4/2018	Northstar	391.49	107.45	284.04	-0.34	Monitoring
DM-1	6/14/2019	Northstar	391.49	107.18	284.31	-0.07	Monitoring
DM-1	12/5/2019	Northstar	391.49	107.42	284.07	-0.31	Monitoring
DM-1	6/4/2020	Northstar	391.49	107.10	284.39	0.01	Monitoring
DM-1	12/3/2020	Northstar	391.49	107.70	283.79	-0.59	Monitoring
DM-1	6/3/2021	Northstar	391.49	107.06	284.43	0.05	Monitoring
DM-1	12/2/2021	Northstar	391.49	107.35	284.14	-0.24	Monitoring
DM-2	2/27/2012	WorleyParsons	391.32	106.92	284.40	N/A	Monitoring
DM-2	5/24/2012	WorleyParsons	391.32	107.37	283.95	0.00	Baseline
DM-2	7/26/2012	WorleyParsons	391.32	107.33	283.99	0.04	Monitoring
DM-2	11/14/2012	WorleyParsons	391.32	108.33	282.99	-0.96	Monitoring

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 Genesis Solar Energy Project, Riverside County, California

Well ID	Date	Source	Top of Casing Elevation (feet amsl) ¹	Depth to Water (feet below TOC)	Groundwater Elevation (feet amsl)	Difference from Baseline (feet)	Comments / Use
DM-2	3/29/2013	WorleyParsons	391.32	107.59	283.73	-0.22	Monitoring
DM-2	6/19/2013	WorleyParsons	391.32	107.41	283.91	-0.04	Monitoring
DM-2	8/13/2013	WorleyParsons	391.32	107.31	284.01	0.06	Monitoring
DM-2	11/12/2013	WorleyParsons	391.32	107.63	283.69	-0.26	Monitoring
DM-2	2/26/2014	WorleyParsons	391.32	107.40	283.92	-0.03	Monitoring
DM-2	5/22/2014	Northstar	391.32	107.28	284.04	0.09	Monitoring
DM-2	8/8/2014	Northstar	391.32	107.28	284.04	0.09	Monitoring
DM-2	12/4/2014	Northstar	391.32	107.43	283.89	-0.06	Monitoring
DM-2	3/26/2015	Northstar	391.32	107.61	283.71	-0.24	Monitoring
DM-2	6/11/2015	Northstar	391.32	107.40	283.92	-0.03	Monitoring
DM-2	12/10/2015	Northstar	391.32	107.30	284.02	0.07	Monitoring
DM-2	6/2/2016	Northstar	391.32	107.38	283.94	-0.01	Monitoring
DM-2	11/30/2016	Northstar	391.32	107.52	283.80	-0.15	Monitoring
DM-2	6/1/2017	Northstar	391.32	107.47	283.85	-0.10	Monitoring
DM-2	12/5/2017	Northstar	391.32	107.78	283.54	-0.41	Monitoring
DM-2	5/30/2018	Northstar	391.32	107.45	283.87	-0.08	Monitoring
DM-2	12/4/2018	Northstar	391.32	107.80	283.52	-0.43	Monitoring
DM-2	6/14/2019	Northstar	391.32	107.55	283.77	-0.18	Monitoring
DM-2	12/5/2019	Northstar	391.32	107.72	283.60	-0.35	Monitoring
DM-2	6/4/2020	Northstar	391.32	107.45	283.87	-0.08	Monitoring
DM-2	12/3/2020	Northstar	391.32	108.03	283.29	-0.66	Monitoring
DM-2	6/3/2021	Northstar	391.32	107.64	283.68	-0.27	Monitoring
DM-2	12/2/2021	Northstar	391.32	107.71	283.61	-0.34	Monitoring
DM-3	2/27/2012	WorleyParsons	388.34	103.85	284.49	N/A	Monitoring
DM-3	5/24/2012	WorleyParsons	388.34	104.35	283.99	0.00	Baseline
DM-3	7/26/2012	WorleyParsons	388.34	104.28	284.06	0.07	Monitoring
DM-3	11/14/2012	WorleyParsons	388.34	105.25	283.09	-0.90	Monitoring
DM-3	3/29/2013	WorleyParsons	388.34	104.35	283.99	0.00	Monitoring
DM-3	6/19/2013	WorleyParsons	388.34	104.20	284.14	0.15	Monitoring
DM-3	8/13/2013	WorleyParsons	388.34	104.31	284.03	0.04	Monitoring
DM-3	11/12/2013	WorleyParsons	388.34	104.43	283.91	-0.08	Monitoring
DM-3	2/26/2014	WorleyParsons	388.34	104.31	284.03	0.04	Monitoring
DM-3	5/22/2014	Northstar	388.34	104.20	284.14	0.15	Monitoring
DM-3	8/8/2014	Northstar	388.34	104.21	284.13	0.14	Monitoring
DM-3	12/4/2014	Northstar	388.34	104.39	283.95	-0.04	Monitoring
DM-3	3/26/2015	Northstar	388.34	104.59	283.75	-0.24	Monitoring
DM-3	6/12/2015	Northstar	388.34	104.18	284.16	0.17	Monitoring
DM-3	12/11/2015	Northstar	388.34	103.96	284.38	0.39	Monitoring
DM-3	6/3/2016	Northstar	388.34	104.38	283.96	-0.03	Monitoring
DM-3	12/2/2016	Northstar	388.34	104.28	284.06	0.07	Monitoring
DM-3	6/1/2017	Northstar	388.34	104.25	284.09	0.10	Monitoring
DM-3	12/5/2017	Northstar	388.34	104.62	283.72	-0.27	Monitoring
DM-3	5/30/2018	Northstar	388.34	104.27	284.07	0.08	Monitoring
DM-3	12/4/2018	Northstar	388.34	104.68	283.66	-0.33	Monitoring
DM-3	6/14/2019	Northstar	388.34	104.38	283.96	-0.03	Monitoring
DM-3	12/6/2019	Northstar	388.34	104.66	283.68	-0.31	Monitoring
DM-3	6/5/2020	Northstar	388.34	104.32	284.02	0.03	Monitoring
DM-3	12/3/2020	Northstar	388.34	104.80	283.54	-0.45	Monitoring
DM-3	6/3/2021	Northstar	388.34	104.29	284.05	0.06	Monitoring
DM-3	12/2/2021	Northstar	388.34	104.50	283.84	-0.15	Monitoring
ADDITIONAL WELLS IN THE CHUCKWALLA VALLEY GROUNDWATER BASIN WITHIN 10 MILES OF THE SITE FOR WHICH GROUNDWATER LEVEL DATA IS AVAILABLE							
2	5/19/1961	DWR, 1963	424	140.00	284.00	N/A	Irrigation
3	2/26/1982	DWR Well Records	498	180.00	318.00	N/A	Irrigation
4	7/24/1961	DWR, 1963	354	60.05	293.95	N/A	Unused
9	9/16/1990	USGS-NWIS	354	81.36	272.64	N/A	Unknown
9	9/24/1990	USGS-NWIS	354	81.56	272.44	N/A	Unknown
9	2/13/1992	USGS-NWIS	354	81.20	272.80	N/A	Unknown
15	2/17/1992	USGS-NWIS	390.2	104.36	285.84	N/A	Unknown
15	3/15/2000	USGS-NWIS	390.2	97.36	292.84	N/A	Unknown
15	9/23/2009	WorleyParsons	390.2	97.00	293.20	N/A	Unknown
16	2/17/1992	USGS-NWIS	390	110.39	279.61	N/A	Unknown
16	9/23/2009	WorleyParsons	390	103.00	287.00	N/A	Unknown
22	2/4/2002	USGS-NWIS	387.6	125.29	262.31	N/A	Unknown
23	9/26/1990	USGS-NWIS	392.1	134.10	258.00	N/A	Unknown
23	2/10/1992	USGS-NWIS	392.1	134.80	257.30	N/A	Unknown
26	12/26/1982	USGS-NWIS	562.6	300.00	262.60	N/A	Irrigation
26	2/13/1992	USGS-NWIS	562.6	270.28	292.32	N/A	Irrigation
26	3/15/2000	USGS-NWIS	562.6	269.85	292.75	N/A	Irrigation
26	9/23/2009	WorleyParsons	562.6	282.00	280.60	N/A	Irrigation
27	6/19/1961	DWR, 1963	555	258.83	296.17	N/A	Unused
28	6/19/1961	DWR, 1963	520	21.65	498.35	N/A	Unused

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Well ID	Date	Source	Top of Casing Elevation (feet amsl) ¹	Depth to Water (feet below TOC)	Groundwater Elevation (feet amsl)	Difference from Baseline (feet)	Comments / Use
29	1/16/1983	USGS-NWIS	545.9	270.00	275.90	N/A	Irrigation
29	2/13/1992	USGS-NWIS	545.9	257.61	288.29	N/A	Irrigation
29	3/15/2000	USGS-NWIS	545.9	257.22	288.68	N/A	Irrigation
29	9/23/2009	WorleyParsons	545.9	250.00	295.90	N/A	Irrigation
29	4/28/2011	USGS-NWIS	545.9	257.83	288.07	N/A	Irrigation
31	9/16/1990	USGS-NWIS	423.9	144.25	279.65	N/A	Unused
31	3/29/2000	USGS-NWIS	423.9	144.41	279.49	N/A	Unused
32	6/12/1961	USGS-NWIS	418	151.83	266.17	N/A	Unused
32	10/10/1961	USGS-NWIS	418	151.09	266.91	N/A	Unused
32	11/8/1961	USGS-NWIS	418	151.03	266.97	N/A	Unused
32	1/10/1962	USGS-NWIS	418	151.04	266.96	N/A	Unused
32	3/8/1962	USGS-NWIS	418	150.89	267.11	N/A	Unused
32	4/9/1962	USGS-NWIS	418	150.73	267.27	N/A	Unused
32	5/7/1962	USGS-NWIS	418	150.83	267.17	N/A	Unused
32	10/31/1962	USGS-NWIS	418	150.90	267.10	N/A	Unused
32	3/13/1963	USGS-NWIS	418	150.84	267.16	N/A	Unused
32	10/31/1963	USGS-NWIS	418	150.91	267.09	N/A	Unused
32	3/19/1964	USGS-NWIS	418	150.77	267.23	N/A	Unused
32	11/25/1964	USGS-NWIS	418	151.13	266.87	N/A	Unused
32	3/18/1965	USGS-NWIS	418	151.21	266.79	N/A	Unused
32	11/18/1965	USGS-NWIS	418	151.40	266.60	N/A	Unused
32	3/2/1966	USGS-NWIS	418	150.66	267.34	N/A	Unused
32	10/27/1966	USGS-NWIS	418	150.89	267.11	N/A	Unused
32	3/16/1967	USGS-NWIS	418	150.92	267.08	N/A	Unused
32	10/25/1967	USGS-NWIS	418	150.86	267.14	N/A	Unused
32	10/23/1969	USGS-NWIS	418	150.89	267.11	N/A	Unused
32	4/30/1970	USGS-NWIS	418	150.95	267.05	N/A	Unused
33	1987	USGS-NWIS	457.5	202.25	255.25	N/A	Unknown
33	9/17/1990	USGS-NWIS	457.5	205.62	251.88	N/A	Unknown
33	2/10/1992	USGS-NWIS	457.5	206.70	250.80	N/A	Unknown
33	2/11/1992	USGS-NWIS	457.5	206.27	251.23	N/A	Unknown
34	10/8/1992	USGS-NWIS	458.3	213.00	245.30	N/A	Public Water Supply
35	12/1987	USGS-NWIS	456.5	205.00	251.50	N/A	Unknown
35	2/10/1992	USGS-NWIS	456.5	200.50	256.00	N/A	Unknown
35	2/11/1992	USGS-NWIS	456.5	199.07	257.43	N/A	Unknown
35	2/11/1992	USGS-NWIS	456.5	199.60	256.90	N/A	Unknown
36	12/1987	USGS-NWIS	443.5	203.00	240.50	N/A	Public Water Supply
36	9/17/1990	USGS-NWIS	443.5	189.05	254.45	N/A	Public Water Supply
36	2/10/1992	USGS-NWIS	443.5	187.70	255.80	N/A	Public Water Supply
36	2/10/1992	USGS-NWIS	443.5	186.20	257.30	N/A	Public Water Supply
36	3/16/2000	USGS-NWIS	443.5	199.24	244.26	N/A	Public Water Supply
37	7/1/1981	Kennedy/Jenks/Chilton	433.09	163.00	270.09	N/A	Irrigation (abandoned)
37	2/11/1992	USGS-NWIS	433.09	174.47	258.62	N/A	Irrigation (abandoned)
39	4/5/1961	USGS-NWIS	442.9	168.37	274.53	N/A	Irrigation
39	4/30/1970	USGS-NWIS	442.9	171.81	271.09	N/A	Irrigation
39	7/31/1979	USGS-NWIS	442.9	173.48	269.42	N/A	Irrigation
39	7/24/1980	USGS-NWIS	442.9	169.06	273.84	N/A	Irrigation
39	1/23/1981	USGS-NWIS	442.9	169.22	273.68	N/A	Irrigation
39	9/23/1981	USGS-NWIS	442.9	169.23	273.67	N/A	Irrigation
39	3/3/1982	USGS-NWIS	442.9	170.26	272.64	N/A	Irrigation
39	1/28/1983	USGS-NWIS	442.9	170.54	272.36	N/A	Irrigation
39	7/31/1984	USGS-NWIS	442.9	170.65	272.25	N/A	Irrigation
39	2/27/1985	USGS-NWIS	442.9	171.10	271.80	N/A	Irrigation
39	6/12/1985	USGS-NWIS	442.9	172.90	270.00	N/A	Irrigation
39	2/9/1992	USGS-NWIS	442.9	183.46	259.44	N/A	Irrigation
40	10/30/1992	USGS-NWIS	449.4	193.00	256.40	N/A	Public Water Supply
41	10/19/1992	USGS-NWIS	453.6	202.00	251.60	N/A	Public Water Supply
42	1/1/1982	Kennedy/Jenks/Chilton	470	197.00	273.00	N/A	Irrigation
43	3/15/1982	USGS-NWIS	505.6	248.00	257.60	N/A	Irrigation
43	2/13/1992	USGS-NWIS	505.6	232.35	273.25	N/A	Irrigation
43	3/29/2000	USGS-NWIS	505.6	234.50	271.10	N/A	Baseline
43	10/5/2000	USGS-NWIS	505.6	234.84	270.76	N/A	Irrigation
43	1/10/2001	USGS-NWIS	505.6	234.89	270.71	N/A	Irrigation
43	2/23/2001	USGS-NWIS	505.6	234.45	271.15	N/A	Irrigation
43	4/16/2001	USGS-NWIS	505.6	234.82	270.78	N/A	Irrigation
43	4/16/2001	USGS-NWIS	505.6	234.82	270.78	N/A	Irrigation
43	7/10/2001	USGS-NWIS	505.6	235.40	270.20	N/A	Irrigation
43	11/7/2001	USGS-NWIS	505.6	235.66	269.94	N/A	Irrigation
43	11/7/2001	USGS-NWIS	505.6	235.69	269.91	N/A	Irrigation
43	4/3/2002	USGS-NWIS	505.6	234.69	270.91	N/A	Irrigation
43	4/3/2002	USGS-NWIS	505.6	234.69	270.91	N/A	Irrigation
43	10/2/2002	USGS-NWIS	505.6	236.04	269.56	N/A	Irrigation
43	10/2/2002	USGS-NWIS	505.6	236.16	269.44	N/A	Irrigation

TABLE 2
GROUNDWATER LEVEL MEASUREMENTS
 Genesis Solar Energy Project, Riverside County, California

Well ID	Date	Source	Top of Casing Elevation (feet amsl) ¹	Depth to Water (feet below TOC)	Groundwater Elevation (feet amsl)	Difference from Baseline (feet)	Comments / Use
43	6/3/2003	USGS-NWIS	505.6	235.59	270.01	N/A	Irrigation
43	6/3/2003	USGS-NWIS	505.6	235.61	269.99	N/A	Irrigation
43	11/5/2003	USGS-NWIS	505.6	236.46	269.14	N/A	Irrigation
43	11/5/2003	USGS-NWIS	505.6	236.45	269.15	N/A	Irrigation
43	3/2/2004	USGS-NWIS	505.6	235.65	269.95	N/A	Irrigation
43	3/2/2004	USGS-NWIS	505.6	235.63	269.97	N/A	Irrigation
43	8/4/2004	USGS-NWIS	505.6	235.85	269.75	N/A	Irrigation
43	12/8/2004	USGS-NWIS	505.6	235.78	269.82	N/A	Irrigation
43	4/15/2005	USGS-NWIS	505.6	235.28	270.32	N/A	Irrigation
43	8/31/2005	USGS-NWIS	505.6	235.89	269.71	N/A	Irrigation
43	8/31/2005	USGS-NWIS	505.6	235.84	269.76	N/A	Irrigation
43	2/14/2006	USGS-NWIS	505.6	235.78	269.82	N/A	Irrigation
43	2/14/2006	USGS-NWIS	505.6	235.79	269.81	N/A	Irrigation
43	5/5/2006	USGS-NWIS	505.6	236.38	269.22	N/A	Irrigation
43	5/5/2006	USGS-NWIS	505.6	236.39	269.21	N/A	Irrigation
43	8/10/2006	USGS-NWIS	505.6	236.66	268.94	N/A	Irrigation
43	8/10/2006	USGS-NWIS	505.6	236.66	268.94	N/A	Irrigation
43	12/8/2006	USGS-NWIS	505.6	236.57	269.03	N/A	Irrigation
43	12/8/2006	USGS-NWIS	505.6	236.57	269.03	N/A	Irrigation
43	2/7/2007	USGS-NWIS	505.6	236.16	269.44	N/A	Irrigation
43	2/7/2007	USGS-NWIS	505.6	236.16	269.44	N/A	Irrigation
43	5/17/2007	USGS-NWIS	505.6	236.55	269.05	N/A	Irrigation
43	5/17/2007	USGS-NWIS	505.6	236.56	269.04	N/A	Irrigation
43	9/5/2007	USGS-NWIS	505.6	236.91	268.69	N/A	Irrigation
43	9/5/2007	USGS-NWIS	505.6	236.91	268.69	N/A	Irrigation
43	9/5/2007	USGS-NWIS	505.6	236.91	268.69	N/A	Irrigation
43	12/13/2007	USGS-NWIS	505.6	236.55	269.05	N/A	Irrigation
43	12/13/2007	USGS-NWIS	505.6	236.54	269.06	N/A	Irrigation
43	3/19/2008	USGS-NWIS	505.6	235.65	269.95	N/A	Irrigation
43	3/19/2008	USGS-NWIS	505.6	235.64	269.96	N/A	Irrigation
43	3/19/2008	USGS-NWIS	505.6	235.67	269.93	N/A	Irrigation
43	6/25/2008	USGS-NWIS	505.6	235.62	269.98	N/A	Irrigation
43	6/25/2008	USGS-NWIS	505.6	235.60	270.00	N/A	Irrigation
43	9/24/2008	USGS-NWIS	505.6	235.73	269.87	N/A	Irrigation
43	9/24/2008	USGS-NWIS	505.6	235.73	269.87	N/A	Irrigation
43	9/24/2008	USGS-NWIS	505.6	235.72	269.88	N/A	Irrigation
43	1/14/2009	USGS-NWIS	505.6	235.25	270.35	N/A	Irrigation
43	1/14/2009	USGS-NWIS	505.6	235.26	270.34	N/A	Irrigation
43	4/16/2009	USGS-NWIS	505.6	235.28	270.32	N/A	Irrigation
43	4/16/2009	USGS-NWIS	505.6	235.29	270.31	N/A	Irrigation
43	7/30/2009	USGS-NWIS	505.6	235.80	269.80	N/A	Irrigation
43	7/30/2009	USGS-NWIS	505.6	235.79	269.81	N/A	Irrigation
43	10/29/2009	USGS-NWIS	505.6	235.61	269.99	N/A	Irrigation
43	10/29/2009	USGS-NWIS	505.6	235.60	270.00	N/A	Irrigation
43	1/20/2010	USGS-NWIS	505.6	235.98	269.62	N/A	Irrigation
43	1/20/2010	USGS-NWIS	505.6	235.99	269.61	N/A	Irrigation
43	4/23/2010	USGS-NWIS	505.6	235.26	270.34	N/A	Irrigation
43	4/23/2010	USGS-NWIS	505.6	235.26	270.34	N/A	Irrigation
43	7/22/2010	USGS-NWIS	505.6	235.67	269.93	N/A	Irrigation
43	11/4/2010	USGS-NWIS	505.6	235.71	269.89	N/A	Irrigation
43	11/4/2010	USGS-NWIS	505.6	235.73	269.87	N/A	Irrigation
43	1/13/2011	USGS-NWIS	505.6	235.27	270.33	N/A	Irrigation
43	4/28/2011	USGS-NWIS	505.6	235.12	270.48	N/A	Irrigation
43	10/18/2011	USGS-NWIS	505.6	235.48	270.12	N/A	Irrigation
43	5/9/2012	USGS-NWIS	505.6	235.25	270.35	N/A	Irrigation
43	5/11/2012	USGS-NWIS	505.6	235.24	270.36	N/A	Irrigation
43	10/5/2012	USGS-NWIS	505.6	235.65	269.95	N/A	Irrigation
43	2/12/2013	USGS-NWIS	505.6	235.36	270.24	N/A	Irrigation
43	8/29/2013	USGS-NWIS	505.6	235.62	269.98	N/A	Irrigation
43	11/21/2013	USGS-NWIS	505.6	235.36	270.24	N/A	Irrigation
43	5/7/2014	USGS-NWIS	505.6	235.08	270.52	N/A	Irrigation
43	12/19/2014	USGS-NWIS	505.6	235.35	270.25	N/A	Irrigation
43	4/7/2015	USGS-NWIS	505.6	235.17	270.43	N/A	Irrigation
43	9/2/2015	USGS-NWIS	505.6	235.12	270.48	N/A	Irrigation
43	1/26/2016	USGS-NWIS	505.6	234.89	270.71	N/A	Irrigation
43	3/23/2016	USGS-NWIS	505.6	234.76	270.84	N/A	Irrigation
43	6/15/2016	USGS-NWIS	505.6	234.74	270.86	N/A	Irrigation
43	10/19/2016	USGS-NWIS	505.6	234.94	270.66	N/A	Irrigation
43	1/24/2017	USGS-NWIS	505.6	234.63	270.97	N/A	Irrigation
43	5/23/2017	USGS-NWIS	505.6	234.67	270.93	N/A	Irrigation
43	8/22/2017	USGS-NWIS	505.6	235.13	270.47	N/A	Irrigation
43	12/5/2017	USGS-NWIS	505.6	234.99	270.61	N/A	Irrigation
43	3/14/2018	USGS-NWIS	505.6	234.59	271.01	N/A	Irrigation

TABLE 2
GROUNDWATER LEVEL MEASUREMENTS
 Genesis Solar Energy Project, Riverside County, California

Well ID	Date	Source	Top of Casing Elevation (feet amsl) ¹	Depth to Water (feet below TOC)	Groundwater Elevation (feet amsl)	Difference from Baseline (feet)	Comments / Use
43	5/29/2018	USGS-NWIS	505.6	234.83	270.77	N/A	Irrigation
43	9/4/2018	USGS-NWIS	505.6	235.27	270.33	N/A	Irrigation
43	11/14/2018	USGS-NWIS	505.6	235.54	270.06	N/A	Irrigation
43	3/18/2019	USGS-NWIS	505.6	235.21	270.39	N/A	Irrigation
43	6/12/2019	USGS-NWIS	505.6	235.60	270.00	N/A	Irrigation
43	8/21/2019	USGS-NWIS	505.6	235.36	270.24	N/A	Irrigation
43	11/6/2019	USGS-NWIS	505.6	235.18	270.42	N/A	Irrigation
43	3/19/2020	USGS-NWIS	505.6	234.87	270.73	N/A	Irrigation
43	5/27/2020	USGS-NWIS	505.6	234.94	270.66	N/A	Irrigation
43	8/26/2020	USGS-NWIS	505.6	234.92	270.68	N/A	Irrigation
43	10/19/2020	USGS-NWIS	505.6	235.17	270.43	N/A	Irrigation
43	3/31/2021	USGS-NWIS	505.6	234.88	270.72	N/A	Irrigation
43	6/2/2021	USGS-NWIS	505.6	234.85	270.75	N/A	Irrigation
43	9/1/2021	USGS-NWIS	505.6	235.00	270.60	N/A	Irrigation
44	11/29/1989	USGS-NWIS	505.3	234.00	271.30	N/A	Irrigation
47	2/14/1984	USGS-NWIS	580.90	300.00	280.90	N/A	Unknown
47	9/28/1990	USGS-NWIS	580.90	299.61	281.29	N/A	Unknown
47	2/9/1992	USGS-NWIS	580.90	299.69	281.21	N/A	Unknown
47	3/30/2000	USGS-NWIS	580.90	300.05	280.85	N/A	Unknown
50	4/7/1961	USGS-NWIS	566	189.85	376.15	N/A	Unknown
50	4/20/1961	USGS-NWIS	566	189.98	376.02	N/A	Unknown
54	5/1/1985	USGS-NWIS	654.5	360.00	294.50	N/A	Unknown
54	9/28/1990	USGS-NWIS	654.5	369.19	285.31	N/A	Unknown
54	2/10/1992	USGS-NWIS	654.5	369.15	285.35	N/A	Unknown
54	3/30/2000	USGS-NWIS	654.5	369.08	285.42	N/A	Unknown
55	1/23/2012	USGS-NWIS	415.4	162.60	252.80	N/A	Exploratory
55	5/9/2012	USGS-NWIS	415.4	162.57	252.83	N/A	Exploratory
55	9/2/2015	USGS-NWIS	415.4	161.88	253.52	N/A	Exploratory
55	1/26/2016	USGS-NWIS	415.4	161.42	253.98	N/A	Exploratory
55	3/23/2016	USGS-NWIS	415.4	161.43	253.97	N/A	Exploratory
55	6/15/2016	USGS-NWIS	415.4	161.37	254.03	N/A	Exploratory
55	10/19/2016	USGS-NWIS	415.4	161.63	253.77	N/A	Exploratory
55	1/24/2017	USGS-NWIS	415.4	161.31	254.09	N/A	Exploratory
55	5/23/2017	USGS-NWIS	415.4	161.37	254.03	N/A	Exploratory
55	8/22/2017	USGS-NWIS	415.4	161.89	253.51	N/A	Exploratory
55	12/5/2017	USGS-NWIS	415.4	161.47	253.93	N/A	Exploratory
55	3/14/2018	USGS-NWIS	415.4	161.24	254.16	N/A	Exploratory
55	5/29/2018	USGS-NWIS	415.4	161.51	253.89	N/A	Exploratory
55	9/4/2018	USGS-NWIS	415.4	162.08	253.32	N/A	Exploratory
55	11/14/2018	USGS-NWIS	415.4	162.04	253.36	N/A	Exploratory
55	3/18/2019	USGS-NWIS	415.4	161.82	253.58	N/A	Exploratory
55	6/12/2019	USGS-NWIS	415.4	162.24	253.16	N/A	Exploratory
55	8/21/2019	USGS-NWIS	415.4	162.06	253.34	N/A	Exploratory
55	11/7/2019	USGS-NWIS	415.4	161.70	253.70	N/A	Exploratory
55	3/19/2020	USGS-NWIS	415.4	161.31	254.09	N/A	Exploratory
55	5/27/2020	USGS-NWIS	415.4	161.54	253.86	N/A	Exploratory
55	8/27/2020	USGS-NWIS	415.4	161.63	253.77	N/A	Exploratory
55	10/20/2020	USGS-NWIS	415.4	161.85	253.55	N/A	Exploratory
55	3/31/2021	USGS-NWIS	415.4	161.15	254.25	N/A	Exploratory
55	6/2/2021	USGS-NWIS	415.4	161.38	254.02	N/A	Exploratory
55	9/1/2021	USGS-NWIS	415.4	161.60	253.80	N/A	Exploratory
56	1/23/2012	USGS-NWIS	415.4	159.69	255.71	N/A	Exploratory
56	5/9/2012	USGS-NWIS	415.4	159.89	255.51	N/A	Exploratory
56	1/26/2016	USGS-NWIS	415.4	159.71	255.69	N/A	Exploratory
56	3/23/2016	USGS-NWIS	415.4	159.63	255.77	N/A	Exploratory
56	6/15/2016	USGS-NWIS	415.4	159.58	255.82	N/A	Exploratory
56	10/19/2016	USGS-NWIS	415.4	159.57	255.83	N/A	Exploratory
56	1/24/2017	USGS-NWIS	415.4	159.57	255.83	N/A	Exploratory
56	5/23/2017	USGS-NWIS	415.4	159.38	256.02	N/A	Exploratory
56	8/22/2017	USGS-NWIS	415.4	159.53	255.87	N/A	Exploratory
56	12/5/2017	USGS-NWIS	415.4	159.55	255.85	N/A	Exploratory
56	3/14/2018	USGS-NWIS	415.4	159.29	256.11	N/A	Exploratory
56	5/29/2018	USGS-NWIS	415.4	159.30	256.10	N/A	Exploratory
56	9/4/2018	USGS-NWIS	415.4	159.40	256.00	N/A	Exploratory
56	11/14/2018	USGS-NWIS	415.4	159.75	255.65	N/A	Exploratory
56	3/18/2019	USGS-NWIS	415.4	159.38	256.02	N/A	Exploratory
56	6/12/2019	USGS-NWIS	415.4	159.53	255.87	N/A	Exploratory
56	8/21/2019	USGS-NWIS	415.4	159.40	256.00	N/A	Exploratory
56	11/7/2019	USGS-NWIS	415.4	159.44	255.96	N/A	Exploratory
56	3/19/2020	USGS-NWIS	415.4	159.32	256.08	N/A	Exploratory
56	5/27/2020	USGS-NWIS	415.4	159.34	256.06	N/A	Exploratory

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GROUNDWATER LEVEL MEASUREMENTS
 Genesis Solar Energy Project, Riverside County, California

Well ID	Date	Source	Top of Casing Elevation (feet amsl) ¹	Depth to Water (feet below TOC)	Groundwater Elevation (feet amsl)	Difference from Baseline (feet)	Comments / Use
56	8/27/2020	USGS-NWIS	415.4	159.23	256.17	N/A	Exploratory
56	10/20/2020	USGS-NWIS	415.4	159.36	256.04	N/A	Exploratory
56	3/31/2021	USGS-NWIS	415.4	159.39	256.01	N/A	Exploratory
56	6/2/2021	USGS-NWIS	415.4	159.27	256.13	N/A	Exploratory
56	9/1/2021	USGS-NWIS	415.4	159.20	256.20	N/A	Exploratory
57	1/23/2012	USGS-NWIS	415.4	154.20	261.20	N/A	Exploratory
57	5/9/2012	USGS-NWIS	415.4	154.28	261.12	N/A	Exploratory
57	9/2/2015	USGS-NWIS	415.4	153.39	262.01	N/A	Exploratory
57	3/23/2016	USGS-NWIS	415.4	153.29	262.11	N/A	Exploratory
57	6/15/2016	USGS-NWIS	415.4	153.15	262.25	N/A	Exploratory
57	10/19/2016	USGS-NWIS	415.4	153.08	262.32	N/A	Exploratory
57	1/24/2017	USGS-NWIS	415.4	153.12	262.28	N/A	Exploratory
57	5/23/2017	USGS-NWIS	415.4	152.78	262.62	N/A	Exploratory
57	8/22/2017	USGS-NWIS	415.4	152.73	262.67	N/A	Exploratory
57	12/5/2017	USGS-NWIS	415.4	152.66	262.74	N/A	Exploratory
57	3/14/2018	USGS-NWIS	415.4	152.49	262.91	N/A	Exploratory
57	5/29/2018	USGS-NWIS	415.4	152.35	263.05	N/A	Exploratory
57	9/4/2018	USGS-NWIS	415.4	152.37	263.03	N/A	Exploratory
57	11/14/2018	USGS-NWIS	415.4	152.24	263.16	N/A	Exploratory
57	3/18/2019	USGS-NWIS	415.4	152.09	263.31	N/A	Exploratory
57	6/12/2019	USGS-NWIS	415.4	152.00	263.40	N/A	Exploratory
57	8/21/2019	USGS-NWIS	415.4	151.95	263.45	N/A	Exploratory
57	11/7/2019	USGS-NWIS	415.4	151.83	263.57	N/A	Exploratory
57	3/19/2020	USGS-NWIS	415.4	151.85	263.55	N/A	Exploratory
57	5/27/2020	USGS-NWIS	415.4	151.60	263.80	N/A	Exploratory
57	8/27/2020	USGS-NWIS	415.4	151.49	263.91	N/A	Exploratory
57	10/20/2020	USGS-NWIS	415.4	151.44	263.96	N/A	Exploratory
57	3/31/2021	USGS-NWIS	415.4	151.37	264.03	N/A	Exploratory
57	6/2/2021	USGS-NWIS	415.4	151.17	264.23	N/A	Exploratory
57	9/1/2021	USGS-NWIS	415.4	151.10	264.30	N/A	Exploratory

Notes:

amsl = above mean sea level

TOC = top of casing

1. Wells were surveyed on February 8 & 9, 2011. Top of Casing elevation for all other wells are approximate.

2. No data was collected due to equipment or software malfunction

3. Sounding tube is blocked with concrete

4. Well not accessible - Unknown lock on well

5. Well not accessible - Steel plate welded over well

6. Due to loss of configuration file and calibration data following the 1st Quarter 2014 monitoring event, the OBS-2 buried transducers are no longer accessible.

7. Well not accessible - Access agreement issue

8. Well pumped by others on 10/10/17 at 250-300 gpm; water level at time of monitoring was 128.75 ft bgs / 259.39 ft amsl.

9. Sounding port obstructed

TABLE 3
MOST RECENT GROUNDWATER QUALITY MONITORING DATA
 Genesis Solar Energy Project, Riverside, California

Well ID	Date	Groundwater Purging			Field Parameters					
		Rate of Groundwater Discharge (mL/min)	Purging Method	Total Volume Purged (mL)	pH	Conductivity (mS/cm)	Turbidity (NTU)	D.O. (mg/L)	Temperature (°C)	ORP (mV)
23a	12/3/2021	N/A	Bailer	5,750	8.94	2.71	N/A	2.15	25.6	+87
OBS-1	12/3/2021	N/A	Bailer	5,750	9.23	24.3	N/A	4.21	26.3	-35
TW-1	12/3/2021	N/A	Bailer	5,750	11.14	8.52	N/A	2.78	24.7	-84
TW-2	12/2/2021	N/A	Bailer	5,750	9.37	5.80	N/A	1.88	29.8	-121
PW-0	12/2/2021	N/A	Production Pump	N/A ²	8.40	6.54	N/A	1.37	35.7	-138
PW-1	12/2/2021	N/A	N/A	N/A ¹	-	-	-	-	-	-
PW-2	12/2/2021	N/A	Production Pump	N/A ²	8.24	3.83	N/A	3.19	47.0	-37
DM-1	12/2/2021	188	Bladder Pump	3,760	8.42	18.2	N/A	2.78	29.0	+74
DM-2	12/2/2021	120	Bladder Pump	3,760	8.40	18.5	N/A	1.13	27.6	+37
DM-3	12/2/2021	121	Bladder Pump	3,760	8.71	17.7	N/A	2.65	24.5	+44

NOTES:

ml = milliliters

ml/min = milliliters per minute

mS/cm = millisiemens per centimeter

NTU = Nephelometric Turbidity Units

DO = Dissolved Oxygen

mg/L = milligrams per Liter

°C = degrees Celsius

mV = millivolts

N/A = Not Applicable or Not Available

-- = Not Measured

1. Not sampled - well not accessible

2. Well was sampled during continuous production pumping and therefore purging was not necessary

TABLE 4
SUMMARY OF LABORATORY ANALYTICAL RESULTS
Genesis Solar Energy Project

Well ID	Date Sampled	Sampling Method	Chloride	Sulfate (SO4)	Nitrate (NO3)-N	Calcium	Copper	Sodium	Potassium	Iron	Magnesium	Antimony	Arsenic	Barium	Cadmium	Chromium (Total)	Cobalt	Lead	Manganese	Nickel	Selenium	Zinc	Mercury	Total Dissolved Solids	Specific Conductance (us/cm)	pH	Oil & Grease / HEM (mg/L)	HTF [†] (mg/L)	Deuterium (% relative to VSMOW)	Oxygen-18 (% relative to VSMOW)
			(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(mg/L)	(mg/L)	(standard Units)					
			EPA Method 300.0						EPA Method 200.7						EPA Method 200.8						SM7470A	SM2540C	SM2510B	SM4500H	SM1664A	8015B	Isotope Geochemistry			
TW-1	6/5/2009	Low Flow	5,600	1,500	<0.25	160	<0.010	4,500	30	1.4	38	-	-	-	-	-	-	65	-	-	-	-	9,500	19,000	7.9	-	-	-	-	
TW-1	7/9/2009	Low Flow	5,300	1,400	-	-	<0.010	4,000	27	-	-	-	-	-	-	-	-	-	-	-	-	10,000	19,000	7.9	-	-	-	-		
TW-1	7/13/2009	Low Flow	6,400	1,800	-	-	<0.010	3,600	24	-	-	-	-	-	-	-	-	-	-	-	-	9,500	18,000	7.9	-	-	-	-		
TW-1	7/16/2009	Low Flow	4,700	1,200	<0.25	-	<0.010	3,600	25	-	-	-	-	-	-	-	-	-	-	-	-	8,900	18,000	7.8	-	-	-	-		
TW-1	11/10/2010	Low Flow	6,200	1,600	<0.25	170	<0.010	4,000	23	1.7	35	-	-	-	-	-	-	79	-	-	-	-	11,000	18,000	8.0	-	-	-69.90	-8.61	
TW-1	11/10/2010	Low Flow	6,100	1,600	<0.25	170	<0.010	4,100	22	1.6	34	-	-	-	-	-	-	77	-	-	-	-	9,900	18,000	8.0	-	-	-69.30	-8.56	
TW-1	6/8/2011	Low Flow	5,100	1,600	<0.25	170	<0.010	3,300	24	5.1	30	-	-	-	-	-	-	73	-	-	-	-	10,000	20,000	8.0	-	-	-67.00	-8.24	
TW-1	12/13/2011	Low Flow	3,900	1,300	<1.1	82	<0.010	3,400	23	9.5	25	-	-	-	-	-	-	-	-	-	-	9,100	9,800	9.0	-	-	-63.70	-8.2		
TW-1	12/13/2011	Hydrasleeve	3,900	1,300	<1.1	75	0.0052	3,100	21	30	24	-	-	-	-	-	-	-	-	-	-	9,200	15,000	9.0	-	-	-64.20	-8.2		
TW-1	5/23/2012	Hydrasleeve	4,400	1,700	<2.2	81	<0.010	3,000	20	<0.040	21	-	-	-	-	-	-	-	-	-	-	8,800	17,000	9.2	-	-	-66.30	-8.2		
TW-1	10/23/2012	Hydrasleeve	4,100	1,700	<2.2	71	<0.010	3,100	19	<0.040	23	-	-	-	-	-	-	-	-	-	-	9,000	15,000	9.2	-	-	-66.00	-8.0		
TW-1	5/20/2014	Hydrasleeve	3,900	1,400	-	81	<0.010	3,000	20	0.29	12	<10	2.5 ^j	17	<5.0	<10	<5.0	9.6	2.9 ^j	<10	<100	<0.20	8,900	15,000	9.7	<4.7	-	-63.74	-7.83	
TW-1	12/4/2014	Hydrasleeve	3,900	1,200	<2.2	86	<0.050	3,200	21	0.057 ^j	11	<10	3.8 ^j	17	<5.0	<10	<5.0	8.6	4.4 ^j	<10	<100	<0.20	8,500	15,000	9.9	<4.7	<0.095	-65.20	-8.12	
TW-1	6/11/2015	Hydrasleeve	4,100	1,400	<2.2	73	<0.10	3,000	19	<0.40	8.5	<10	4.2 ^j	17	<5.0	<10	<5.0	6.6	<10	<10	<100	<0.20	8,800	15,000	9.9	<4.7	<0.10	-62.50	-8.18	
TW-1	12/10/2015	Hydrasleeve	4,200	1,500	<5.5	82	<0.010	3,000	21	<0.040	7.6	4.3 ^j	4.2 ^j	22	<5.0	<10	<5.0	5.2	3.4 ^j	2.8 ^j	<100	<0.20	9,400	16,000	9.9	1.7 ^j	<0.094	-63.40	-8.08	
TW-1	6/2/2016	Hydrasleeve	3,600	1,300	6.5	71	<0.10	3,000	17	51	11	<2.0	6.0	16	<1.0	<2.0	<1.0	310	<2.0	1.0 ^j	<100	<0.20	8,500	18,000	9.6	<4.8	<0.094	-63.67	-8.11	
TW-1	11/30/2016	Hydrasleeve	4,000	1,400	<5.5	72	<0.010	3,000	21	0.51	5.9	<10	3.1 ^j	13	<5.0	<10	<5.0	8.4	<10	9.0 ^j	<100	<0.20	8,600	13,000	9.6	<4.7	<0.095	-64.00	-8.04	
TW-1	6/1/2017	Hydrasleeve	3,600	1,300	<5.5	79	<0.010	3,400	20	<1.0	6.1	<10	8.2	15	<5.0	<10	<5.0	5.0	<5.0	92	<100	<0.20	8,700	12,000	9.7	<5.2	<0.095	-63.50	-7.97	
TW-1	12/5/2017	Hydrasleeve	3,510	1,130	<0.500	80	<0.025	1,000	33	0.43 ^j	6.4	<1.0	13	14	<1.0	<1.0	2.5	-	<1.0	<1.0	<1.0	<100	7,800	13,900	10	<5.0	<0.10	-62.35	-8.38	
TW-1	6/1/2018	Bailer	4,130	1,390	<10	74	0.11 ^j	3,100	53	<10	5.0	<0.50	6.0	5.9	<0.50	<0.50	<0.50	-	<0.50	<5.0	<5.0	<100	9,300	14,000	10	1.70 ^j	<0.12	-62.80	-7.93	
TW-1	12/4/2018	Bailer	6,910	2,400	<0.500	89	<0.5	4,800	35	<20	<10	<10	20	15	<10	<10	<10	<10	<10	<10	<10	<100	8,100	13,900	10	<5.0	<0.099	-63.50	-7.97	
TW-1	6/13/2019	Bailer	4,070	1,230	<0.500	75	<0.005	3,700	57	1.8	3.4	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<100	6,800	14,200	11	<5.0	<0.10	-63.60	-7.97	
TW-1	12/5/2019	Bailer	7,300	2,490	<0.500	77	0.007	5,100	24	0.025 ^j	6.0	<5.0	12	<5.0	0.30 ^j	<5.0	<5.0	<5.0	<5.0	<5.0	<100	47	<0.50	7,900	14,100	9.7	<5.0	<0.11	-61.30	-7.64
TW-1	6/5/2020	Bailer	4,190	1,370	<0.500	75	0.006	3,100	34	<0.20																				

TABLE 4
SUMMARY OF LABORATORY ANALYTICAL RESULTS
Genesis Solar Energy Project

		Sampling	Chloride (mg/L)	Sulfate (SO4) (mg/L)	Nitrate (NO3)-N (mg/L)	Calcium (mg/L)	Copper (mg/L)	Sodium (mg/L)	Potassium (mg/L)	Iron (mg/L)	Magnesium (mg/L)	Antimony (ug/L)	Arsenic (ug/L)	Barium (ug/L)	Cadmium (ug/L)	Chromium (Total) (ug/L)	Cobalt (ug/L)	Lead (ug/L)	Manganese (ug/L)	Nickel (ug/L)	Selenium (ug/L)	Zinc (ug/L)	Mercury (ug/L)	Total Dissolved Solids (mg/L)	Specific Conductance (us/cm)	pH	Oil & Grease / HEM (mg/L)	HTF [†] (mg/L)	Deuterium (% relative to VSMOW)	Oxygen-18 (% relative to VSMOW)	
OBS-1	6/13/2019	Bailer	6,070	5,400	5.42	360	0.017	7,700	78	0.53	91	<10	<10	<10	<10	<10	<10	<10	-	<10	<10	-	<0.50	11,000	24,500	7.5	<5.0	<0.10	-60.70	-6.75	
OBS-1	12/5/2019	Bailer	9,710	8,020	9.79	330	0.006	6,700	34	<0.20	93	<5.0	<5.0	15	<5.0	0.10 ^j	<5.0	<5.0	-	<5.0	60	48	<0.50	15,000	23,900	7.7	<5.0	<0.10	-59.50	-6.56	
OBS-1	6/5/2020	Bailer	6,100	5,560	5.07	300	0.006	6,100	62	<0.20	75	<5.0	<5.0	14	<5.0	<5.0	<5.0	<5.0	-	<5.0	89	44	<0.50	16,000	24,500	8.1	<5.0	<0.097	-60.90	-6.78	
OBS-1	12/3/2020	Bailer	6,560	6,200	5.41	320	0.005	3,200	51	1.2	68	<5.0	<5.0	18	<5.0	<5.0	<5.0	<5.0	-	<5.0	7.6	3.7	<0.50	18,000	24,000	7.9	<5.0	<0.11	-60.90	-6.80	
OBS-1	6/4/2021	Bailer	6,340	5,760	5.18	290	<0.50	5,700	62	<20	80	<10	<10	16	<10	<10	<10	<10	-	<10	77	16	<0.50	13,000	24,500	7.8	<5.0	<0.090	-60.20	-6.79	
OBS-1	12/3/2021	Bailer	6,160	5,520	5.55	300	<0.50	6,600	<50	<20	86	<10	10	15	<10	<10	<10	<10	-	<10	66	18	<1.0	11,000	24,500	7.9	<5.0	<0.100	-60.10	-6.77	
OBS-2	6/17/2009	Grab	2,300	810	0.5	66	<0.010	1,500	12	0.46	14	-	-	-	-	-	-	-	29	-	-	-	5,000	8,800	7.8	-	-	-	-		
Well 36	11/10/2010	Spigot	270	250	<0.25	13	<0.010	300	1.8	<0.30	0.76	-	-	-	-	-	-	-	<5	-	-	-	860	1,500	8.7	-	-	-	-77.20	-9.79	
Well 36	6/8/2011	Spigot	240	250	<0.25	14	<0.010	270	2.2	<0.30	0.63	-	-	-	-	-	-	-	<5	-	-	-	840	1,500	8.7	-	-	-	-77.80	-9.78	
Well 36	12/14/2011	Spigot	240	210	0.082	12	<0.010	290	2.3	0.034	0.65	-	-	-	-	-	-	-	-	-	-	-	870	1,300	8.6	-	-	-	-74.60	-9.8	
Well 23a	11/11/2010	Hydrasleeve	620	470	<0.25	29	0.4	520	11	13	1.5	-	-	-	-	-	-	-	500	-	-	-	1,700	2,900	8.3	-	-	-	-76.00	-10.24	
Well 23a	6/7/2011	Hydrasleeve	480	400	<0.25	26	0.012	440	9	1.9	<0.50	-	-	-	-	-	-	-	78	-	-	-	1,500	2,500	8.4	-	-	-	-77.70	-10.40	
Well 23a	12/14/2011	Hydrasleeve	510	400	<0.22	24	0.016	550	11.0	3.8	0.47	-	-	-	-	-	-	-	-	-	-	-	1,600	2,400	8.2	-	-	-	-75.00	-10.30	
Well 23a	5/24/2012	Hydrasleeve	410	410	<0.22	25	<0.010	420	11.0	0.071	0.29	-	-	-	-	-	-	-	-	-	-	-	1,500	2,500	8.3	-	-	-	-76.20	-10.40	
Well 23a	10/23/2012	Hydrasleeve	440	440	<0.22	19	<0.010	420	8.7	0.059	3.0	-	-	-	-	-	-	-	-	-	-	-	1,400	2,400	8.3	-	-	-	-77.60	-10.40	
Well 23a	5/20/2014	Hydrasleeve	570	490	-	24	<0.010	540	10	0.042	0.51	<10	<5.0	20	<5.0	<10	<5.0	7.2	<10	<10	100 ^b	<0.20	1,600	2,800	8.1	<4.7	-	-	-74.05	-10.33	
Well 23a	12/4/2014	Hydrasleeve	480	370	<0.22	24	<0.010	520	10	0.011 ^j	0.51	<10	<5.0	20	<5.0	<10	<5.0	5.6	<10	<10	100	<0.20	1,500	2,900	8.2	<4.7	<0.095	-	-76.40	-10.31	
Well 23a	12/10/2015	Hydrasleeve	520	430	<0.22	22	<0.010	490	9.2	0.015 ^j	0.60	<4.0	1.6 ^j	21	<2.0	<4.0	<2.0	8.6	<4.0	1.9 ^j	96	<0.20	1,600	2,800	8.1	<5.1	<0.095	-	-74.30	-10.09	
Well 23a	6/2/2016	Hydrasleeve	480	380	<0.11	20	<0.010	550	11	0.42	0.55	<2.0	1.2	16	<1.0	<2.0	<1.0	4.0	41	0.69 ^j	0.98 ^j	270	<0.20	1,600	3,100	8.4	<4.7	<0.094	-	-73.73	-10.25
Well 23a	11/30/2016	Hydrasleeve	490	430	<0.22	21	<0.010	490	10	<0.040	0.47	<10	<5.0	19	<5.0	<10	<5.0	5.6	<10	5.0 ^j	74 ^j	<0.20	1,500	2,600	8.1	<4.7	<0.095	-	-76.40	-10.18	
Well 23a	6/1/2017	Hydrasleeve	430	400	<0.22	23	<0.010	580	12	0.31	0.68	<10	<5.0	20	<5.0	<10	<5.0	3.2 ^j	45	<10	<10	340	<0.20	1,500	2,700	8.2	<5.1	<0.096	-	-75.30	-10.20
Well 23a	12/5/2017	Hydrasleeve	466	389	<0.50	19	<0.005	670	13	0.060 ^j	0.52	<0.50	1.2	17	<0.50	<0.50	<0.50	<0.50	-	<0.50	76	<0.50	1,300	2,550	8.3	1.40 ^j	<0.10	-	-74.35	-10.47	
Well 23a	6/1/2018	Bailer	491	415	<0.50	22	0.082 ^j	760	19	<10	<5	<0.50	<5.0	13	<0.50	<0.50	<0.50	<0.50	-	<0.50	56	<0.50	1,300	2,640	8.4	<5.0	<0.11	-	-73.60	-10.12	
Well 23a	6/14/2019	Bailer	473	405	<0.50	24	0.005	630	25	0.63	0.68	<10	<10	<10	<10	<10	<10	-	12	<10	-	<0.50	1,400	2,630	7.5	<5.0	<0.10	-	-74.80	-10.22	
Well 23a	12/5/2019	Bailer	667	492	<0.02	22	0.003 ^j	570	0.41	<0.20	0.50	<5.0	<5.0	20	<5.0	0.30 ^j	<5.0	<5.0	<5.0	<5.0	1.4 ^j	480	<0.50	1,400	2,570	8.3	<5.0	<0.10	-	-75.	

TABLE 4
SUMMARY OF LABORATORY ANALYTICAL RESULTS
Genesis Solar Energy Project

		Sampling	Chloride (mg/L)	Sulfate (SO4) (mg/L)	Nitrate (NO3)-N (mg/L)	Calcium (mg/L)	Copper (mg/L)	Sodium (mg/L)	Potassium (mg/L)	Iron (mg/L)	Magnesium (mg/L)	Antimony (ug/L)	Arsenic (ug/L)	Barium (ug/L)	Cadmium (ug/L)	Chromium (Total) (ug/L)	Cobalt (ug/L)	Lead (ug/L)	Manganese (ug/L)	Nickel (ug/L)	Selenium (ug/L)	Zinc (ug/L)	Mercury (ug/L)	Total Dissolved Solids (mg/L)	Specific Conductance (us/cm)	pH	Oil & Grease / HEM (mg/L)	HTF [†] (mg/L)	Deuterium (% relative to VSMOW)	Oxygen-18 (% relative to VSMOW)
DM-3	10/23/2012	Low Flow	5,100	2,100	<2.2	210	<0.010	3,000	20.0	<0.040	52	-	-	-	-	<1.0	-	-	-	-	-	11,000	18,000	7.8	-	-	-72.60	-8.7		
DM-3	5/22/2014	Low Flow	5,400	2,100	-	230	<0.010	3,600	21	<0.040	51	<10	13	18	<5.0	<10	<5.0	<5.0	10	<10	<100	<0.20	11,000	19,000	7.7	<4.9	-	-68.86	-8.52	
DM-3	12/5/2014	Low Flow	4,900	1,800	1.8 ^j	230	<0.050	3,600	20	<0.20	56	<10	16	18	<5.0	<10	<5.0	<5.0	9.6 ^j	<10	<100	<0.20	11,000	18,000	7.8	<4.7	<0.099	-72.40	-8.82	
DM-3	6/12/2015	Low Flow	4,400	1,900	<5.5	220	<0.10	3,600	18	<0.40	50	<10	14	17	<5.0	<10	<5.0	<5.0	4.5 ^j	<10	<100	<0.20	9,800	18,000	7.8	<4.9	<0.10	-69.60	-8.90	
DM-3	12/11/2015	Low Flow	5,100	2,200	<5.5	250	0.0057 ^j	3,500	19	<0.040	51	<10	17	21	<5.0	<10	<5.0	<5.0	<10	3.1 ^j	<100	<0.20	11,000	18,000	7.8	<5.0	<0.094	-70.60	-8.73	
DM-3	6/3/2016	Low Flow	4,700	1,900	7.1	220	<0.10	3,700	17	<0.40	53	<2.0	14	16	<1.0	0.66 ^j	<1.0	<1.0	0.64 ^j	0.88 ^j	1.0 ^j	<2.0	11,000	20,000	7.9	<4.7	<0.093	-69.29	-8.75	
DM-3	12/2/2016	Low Flow	4,900	2,100	<5.5	240	0.0052 ^j	4,100	23	<0.040	56	<10	16	18	<5.0	<10	<5.0	<5.0	<10	5.6 ^j	<100	<0.20	11,000	17,000	7.8	<4.8	<0.097	-72.20	-8.75	
DM-3	6/1/2017	Low Flow	4,800	2,000	<5.5	240	<0.10	3,900	19	<1.0	55	<10	15	18	<5.0	<10	<5.0	<5.0	3.9 ^j	2.7 ^j	<100	<0.20	11,000	16,000	7.9	<5.1	<0.095	-70.80	-8.71	
DM-3	12/5/2017	Low Flow	4,880	2,020	2.77	230	0.027	1,200	31	0.073 ^j	59	<2.5	15	15	<2.5	<2.5	<2.5	<2.5	-	<2.5	<2.5	5.6	<0.50	13,000	17,000	7.8	<5.0	<0.10	-69.57	-8.87
DM-3	5/30/2018	Low Flow	6,350	2,600	10.7	260	0.11 ^j	4,100	61	<10	61	<0.50	14	15	<0.50	<5.0	<0.50	<0.50	-	<0.50	<5.0	<5.0	<0.50	12,000	17,100	7.9	<5.0	<0.11	-70.60	-8.67
DM-3	12/4/2018	Low Flow	6,770	2,840	2.50	280	<0.5	5,200	33	<20	69	<10	20	34	<10	<10	<10	<10	-	<10	<10	<10	<0.50	9,700	17,100	7.8	<5.0	<0.10	-70.60	-8.67
DM-3	6/14/2019	Low Flow	4,880	1,960	2.87	270	0.009	4,900	60	<0.20	59	<10	<10	<10	<10	<10	<10	<10	-	<10	<10	-	<0.50	9,300	16,800	7.5	<5.0	<0.10	-70.80	-8.69
DM-3	12/6/2019	Low Flow	9,760	4,350	3.52	240	0.006	4,100	31	<0.20	58	<5.0	11	18	<5.0	0.90 ^j	<5.0	<5.0	-	<5.0	0.40 ^j	51	<0.50	11,000	17,800	7.7	<5.0	<0.10	-70.50	-8.64
DM-3	6/5/2020	Low Flow	5,250	2,080	2.44	230	0.007	4,000	35	<0.20	48	<5.0	16	17	<5.0	<5.0	<5.0	<5.0	-	<5.0	6.4	13	<0.50	11,000	17,400	7.5	<5.0	<0.097	-70.70	-8.65
DM-3	12/3/2020	Low Flow	5,420	2,300	2.47	220	<0.005	9,100	29	<0.20	45	<5.0	20	<5.0	<5.0	<5.0	<5.0	<5.0	-	<5.0	0.68	0.55	<0.50	10,000	17,000	7.9	<5.0	<0.11	-70.90	-8.71
DM-3	6/3/2021	Low Flow	5,380	2,130	2.44	190	<0.50	3,500	<50	<20	48	<10	<10	<10	<10	<10	<10	<10	-	<10	20	10	<0.50	7,700	17,400	7.7	<5.0	<0.093	-70.40	-8.69
DM-3	12/2/2021	Low Flow	5,230	2,020	3.06	220	<0.50	4,000	<50	<20	53	<10	26	17	<10	<10	<10	<10	-	<10	11	<10	<1.0	12,000	17,400	7.8	<5.0	<0.094	-70.60	-8.69
PW-0	5/23/2012	Spigot	1,100	480	<0.55	66	<0.010	610	8.8	0.015	2.0	-	-	-	-	-	-	-	-	-	-	2,500	4,600	8.0	-	-	-	-78.90	-10.40	
PW-0	10/23/2012	Spigot	780	450	<0.55	55	<0.010	530	7.9	0.015 ^j	2.1	-	-	-	-	-	-	-	-	-	-	2,100	3,400	8.0	-	-	-	-79.40	-10.40	
PW-0	12/4/2018	Spigot	2,100	698	<0.500	100	<0.5	1,100	25	<20	<10	45	55	<10	<10	<10	<10	-	<10	92	<0.50	2,600	6,170	7.9	<5.0	<0.10	-76.30	-10.01		
PW-0	6/13/2019	Spigot	1,740	535	<0.500	130	<0.005	1,500	57	0.33	1.9	<10	<10	<10	<10	<10	<10	<10	-	<10	2,600	6,300	7.1	5.60	<0.10	-76.50	-10.01			
PW-0	12/5/2019	Spigot	3,220	944	<0.500	120	0.004 ^j	1,300	26	0.12 ^j	1.8	<5.0	42	60	<5.0	0.0002 ^j	<5.0	<5.0	-	<5.0	51	<0.50	3,400	6,290	8.2	<5.0	<0.10	-75.70	-9.90	
PW-0	6/4/2020	Spigot	1,810	540	<0.500	110	0.007	1,300	25	0.37	1.5	<5.0	45	55	<5.0	<5.0	<5.0	<5.0	-	<5.0	47	<0.50	3,000	6,390	8.3	<5.0	<0.098	-76.30	-10.01	
PW-0	12/3/2020	Spigot	1,880	625	0.641	96	<0.005	2,300	23	0.35	1.4	<5.0	50	63	<5.0	<5.0	<5.0	<5.0	-	<5.0	4.2	<0.50	3,200	6,400	8.3	<5.0	<0.11	-76.70	-10.07	
PW-0	6/4/202																													

TABLE 4
SUMMARY OF LABORATORY ANALYTICAL RESULTS
Genesis Solar Energy Project

		Sampling	Chloride (mg/L)	Sulfate (SO ₄) (mg/L)	Nitrate (NO ₃)-N (mg/L)	Calcium (mg/L)	Copper (mg/L)	Sodium (mg/L)	Potassium (mg/L)	Iron (mg/L)	Magnesium (mg/L)	Antimony (ug/L)	Arsenic (ug/L)	Barium (ug/L)	Cadmium (ug/L)	Chromium (Total) (ug/L)	Cobalt (ug/L)	Lead (ug/L)	Manganese (ug/L)	Nickel (ug/L)	Selenium (ug/L)	Zinc (ug/L)	Mercury (ug/L)	Total Dissolved Solids (mg/L)	Specific Conductance (us/cm)	pH (standard Units)	Oil & Grease / HEM (mg/L)	HTF [†] (mg/L)	Deuterium (‰ relative to VSMOW)	Oxygen-18 (‰ relative to VSMOW)
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uS/cm = microsiemens per centimeter

‰ = parts per thousand

VSMOW = Vienna Standard Mean Ocean Water

< = not detected at or above the indicated reporting limit

- = information is unknown / not applicable / not analyzed

B - Compound was detected in the laboratory equipment blank.

J - Result is less than the reporting limit but greater than or equal to the method detection limit, thus the concentration is an approximate value.

† - Heat Transfer Fluid (HTF) is characterized by the analytes 1,1'-oxybis-benzene and 1,1'-biphenyl.

1 - Duplicate sample

TABLE 5
HISTORICAL ANALYTICAL DATA FOR OFFSITE WELLS WITHIN MONITORING AREA
 Genesis Solar Energy Project, Riverside, California

Well ID	Date Sampled	Data Source	Sample Depth (ft amsl)	Fluoride (mg/L)	Chloride (mg/L)	Sulfate (SO ₄) (mg/L)	Sodium (mg/L)	Silica (Total) (mg/L)	Potassium (mg/L)	Magnesium (mg/L)	Calcium (mg/L)	Total Hardness (as CaCO ₃) (mg/L)	Total Dissolved Solids (mg/L)
1	5/19/1961	DWR, 1963	--	--	656	--	--	--	--	--	--	--	1,760
3	4/20/2009	Azca Drilling and Pump	560 to 940	--	--	--	--	--	--	--	--	--	910
3	9/3/2009	WorleyParsons	560 to 940	--	--	--	--	--	--	--	--	--	970
5	10/10/1961	DWR, 1963	? to 85.7	--	1,770	--	--	--	--	--	--	--	5,730
14	6/25/1991	DWR Well Records	890 to 940	--	--	--	--	--	--	--	--	--	2,400
14	7/29/2009	WorleyParsons	--	--	3,400	--	--	--	--	--	--	--	6,600
15	9/16/2009	WorleyParsons	200.0	--	--	--	--	--	--	--	--	--	19,000
15	9/16/2009	WorleyParsons	500.0	--	--	--	--	--	--	--	--	--	26,000
16	9/16/2009	WorleyParsons	247.00	--	--	--	--	--	--	--	--	--	3,100
17	1959	DWR, 1963	1,175 to 1,200	--	986	--	--	--	--	--	--	--	2,150
17	9/17/2009	WorleyParsons	247	--	--	--	--	--	--	--	--	--	20,000
21	10/17/1917	DWR, 1963	--	--	865	--	--	--	--	--	--	--	3,820
23	4/19/1979	NWIS	--	6.3	950	450	800	38	16	0.6	67	170	2,350
26	9/16/2009	WorleyParsons	760.00	--	--	--	--	--	--	--	--	--	1,100
27	10/10/1961	DWR, 1963	? to 486.4	--	718	--	--	--	--	--	--	--	2,210
28	10/10/1961	DWR, 1963	? to 779.4	--	273	--	--	--	--	--	--	--	1,470
29	9/16/2009	WorleyParsons	720	--	--	--	--	--	--	--	--	--	1,100
31	10/10/1961	DWR, 1963	? to 242.2	--	734	--	--	--	--	--	--	--	2,560
32	10/10/1961	DWR, 1963	? to 315.7	--	3,250	--	--	--	--	--	--	--	8,150
37	6/4/1990	Engineering Science, 1990	750 to 1,050	--	214	--	--	--	--	--	--	--	752
38	6/20/1986	Woodward-Clyde Consultants	275 to 815	--	519	--	--	--	--	--	--	--	1,313
38	6/20/1986	Woodward-Clyde Consultants	835 to 1,015	--	267	--	--	--	--	--	--	--	719
39	6/12/1961	DWR, 1963	853 to 1,083	--	216	--	--	--	--	--	--	--	--
39	1/1986	CH2M Hill and Boyle Eng.	853 to 1,083	--	--	--	--	--	--	--	--	--	786
42	8/24/1983	Woodward-Clyde Consultants	738 to 1,100	--	199	--	--	--	--	--	--	--	--
42	5/1/1988	CH2M Hill and Boyle Eng.	738 to 1,100	--	--	--	--	--	--	--	--	--	765
43	1/1986	Kennedy/Jenks/Chilton, 1986	510 to 780	--	460	--	--	--	--	--	--	--	1,150
47	1/4/1984	Woodward-Clyde Consultants	490	--	550	--	--	--	--	--	--	--	1,380
47	1/5/1984	Woodward-Clyde Consultants	590	--	586	--	--	--	--	--	--	--	1,350
47	2/7/1984	Woodward-Clyde Consultants	850	--	570	--	--	--	--	--	--	--	2,090
47	1/1986	Kennedy/Jenks/Chilton, 1986	500 to 850	--	520	--	--	--	--	--	--	--	1,740
50	1959	DWR, 1963	? to 818	--	131	--	--	--	--	--	--	--	--

NOTES:

amsl = above mean sea level

mg/L = milligrams per liter

-- = Information not available or not applicable

SOURCES:

CH2M Hill and Boyle Engineering, 1995. Technical Memorandum, Water Treatment Plant Evaluation - Phase I. Dated March 30, 1995.

DWR, 1963. Data on Water Wells and Springs in the Chuckwalla Valley Area. DWR Bulletin 91-7.

Kennedy/Jenks/Chilton, 1986. Final Report Sampling and Analysis in the Wiley's Well Area. Dated March 19, 1986.

NWIS = National Water Information System

Woodward-Clyde Consultants, 1986. Final Report, Groundwater Quality Investigation, Wiley's Well Area. Dated March 13, 1986.

APPENDIX A

FIELD DATA SHEETS



GROUNDWATER LEVEL MEASUREMENT FORM

Date: December 2021		Site: Genesis Solar Energy Project		Project No: 196-004-06	
Project: Groundwater Level Monitoring Program				PM: AWB	
Measurement Method/Device: Solinst Interface Probe				Technicians: AWB	
Weather: Clear, cool					
Well No.	Date	TOC Reference Elevation (ft)	Depth to Water (ft)	Corrected Water Level Elevation (ft)	Comments
TW-1	12/3/2021	387.40	87.72	299.68	Levelogger 62100045
TW-2	12/3/2021	393.47	127.01	266.46	Manual Measurement
OBS-1	12/3/2021	388.30	78.22	310.08	Levelogger 32045678; Barologger 12100120
OBS-2-270	N/A	388.14	N/A	N/A	Buried Transducer Cable
OBS-2-315	N/A	388.14	N/A	N/A	Buried Transducer Cable
OBS-2-370	N/A	388.14	N/A	N/A	Buried Transducer Cable
OBS-2-400	N/A	388.14	N/A	N/A	Buried Transducer Cable
14	12/3/2021	388.14	100.20	287.94	Manual Measurement
23a	12/2/2021	392.10	136.68	255.42	Manual Measurement
24-1	12/3/2021	389.40	127.31	262.09	Manual Measurement
24-2	12/3/2021	388.86	125.25	263.61	Manual Measurement
24-3	12/3/2021	392.04	123.72	268.32	Manual Measurement
PW-0	12/2/2021	385.64	N/A	N/A	Manual Measurement
PW-1	12/2/2021	384.43	N/A	N/A	Manual Measurement
PW-2	12/2/2021	385.15	N/A	N/A	Manual Measurement
DM-1	12/2/2021	391.49	107.35	284.14	Manual Measurement
DM-2	12/2/2021	391.32	107.71	283.61	Manual Measurement
DM-3	12/2/2021	388.34	104.50	283.84	Manual Measurement
Additional Notes:					
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GROUNDWATER SAMPLING FIELD FORM

Date: December 2021	Site: Genesis Solar Energy Project	Project No: 196-004-06
Project: Groundwater Quality Monitoring Program		Project Manager: AWB
Technicians: AWB		Weather: Clear, cool
Sampling Method: Bailer Grab Sample		

Well No.	23a	Temp °C	pH	Conductivity (mS/cm)	Turbidity (NTUs)	ORP (mV)	DO (mg/L)
Casing Diameter (in.)	8.0	25.6	8.94	2.71	N/A	+87	2.15
Total Depth (ft btoc)	1,825						
Screen Interval (ft btoc)	1800 - 1825						
Depth to Water (ft btoc)	136.68						
Sample Date	12/3/2021						
Sample Time	6:45						

General Well Location: CalTrans Rest Stop at Wiley's Well Road (2 days notice to CalTrans required)

COMMENTS:

Well No.	OBS-1	Temp °C	pH	Conductivity (mS/cm)	Turbidity (NTUs)	ORP (mV)	DO (mg/L)
Casing Diameter (in.)	5.0	26.3	9.23	24.31	N/A	-35	4.21
Total Depth (ft btoc)	160						
Screen Interval (ft btoc)	100 - 150						
Depth to Water (ft btoc)	78.22						
Sample Date	12/3/2021						
Sample Time	9:35						

General Well Location: Approximately 1 mile west of property boundary; access via Ford Dry Lake service road

COMMENTS:

Well No.	TW-1	Temp °C	pH	Conductivity (mS/cm)	Turbidity (NTUs)	ORP (mV)	DO (mg/L)
Casing Diameter (in.)	5.0	24.7	11.14	8.52	N/A	-84	2.78
Total Depth (ft btoc)	565						
Screen Interval (ft btoc)	340 - 564						
Depth to Water (ft btoc)	87.72						
Sample Date	12/3/2021						
Sample Time	9:00						

General Well Location: Approximately 1 mile west of property boundary; access via Ford Dry Lake service road

COMMENTS:

Well No.	TW-2	Temp °C	pH	Conductivity (mS/cm)	Turbidity (NTUs)	ORP (mV)	DO (mg/L)
Casing Diameter (in.)	5.0	29.8	9.37	5.80	N/A	-121	1.88
Total Depth (ft btoc)	1,841						
Screen Interval (ft btoc)	Multiple						
Depth to Water (ft btoc)	127.01						
Sample Date	12/2/2021						
Sample Time	12:35						

General Well Location: NE corner of Section 32 (Township 7S, Range 20E); near bend in site access road

COMMENTS:



GROUNDWATER SAMPLING FIELD FORM

Date: December 2021	Site: Genesis Solar Energy Project	Project No: 196-004-06
Project: Groundwater Quality Monitoring Program		Project Manager: AWB
Technicians: AWB		Weather: Clear, cool
Sampling Method: Production Well Effluent Grab Sample		

Well No.	PW-0	Temp °C	pH	Conductivity (mS/cm)	Turbidity (NTUs)	ORP (mV)	DO (mg/L)
Casing Diameter (in.)	10.0	35.7	8.40	6.54	N/A	-138	1.37
Total Depth (ft btoc)	1,251						
Screen Interval (ft btoc)	Multiple						
Depth to Water (ft btoc)	N/A						
Sample Date	12/2/2021						
Sample Time	13:46						

General Well Location: Between Solar Field #1 and #2, near main road

COMMENTS: Access port is blocked

Well No.	PW-1	Temp °C	pH	Conductivity (mS/cm)	Turbidity (NTUs)	ORP (mV)	DO (mg/L)
Casing Diameter (in.)	10.0	-	-	-	-	-	-
Total Depth (ft btoc)	1,360						
Screen Interval (ft btoc)	Multiple						
Depth to Water (ft btoc)	N/A						
Sample Date	12/2/2021						
Sample Time	N/A						

General Well Location: NE corner of Solar Field 1 cooling/processing facility, between Block 6 & Block 7

COMMENTS: Not sampled - no access; well is welded shut and buried under gravel stockpile

Well No.	PW-2	Temp °C	pH	Conductivity (mS/cm)	Turbidity (NTUs)	ORP (mV)	DO (mg/L)
Casing Diameter (in.)	10.0	47.0	8.24	3.83	N/A	-37	3.19
Total Depth (ft btoc)	1,125						
Screen Interval (ft btoc)	Multiple						
Depth to Water (ft btoc)	N/A						
Sample Date	12/2/2021						
Sample Time	13:15						

General Well Location: NW corner of Solar Field 2 cooling/processing facility, between Block 7 & Block 8

COMMENTS: Access port is blocked

Well No.		Temp °C	pH	Conductivity (mS/cm)	Turbidity (NTUs)	ORP (mV)	DO (mg/L)
Casing Diameter (in.)							
Total Depth (ft btoc)							
Screen Interval (ft btoc)							
Depth to Water (ft btoc)							
Sample Date							
Sample Time							

General Well Location:

COMMENTS:



GROUNDWATER SAMPLING FIELD FORM

Date: December 2021	Site: Genesis Solar Energy Project	Project No: 196-004-06
Project: Groundwater Quality Monitoring Program		Project Manager: AWB
Technicians: AWB		Weather: Clear, cool
Sampling Method: Low-Flow Sampling with Submersible Pump (EPA 2017 Protocols)		

Well No.	DM-1	Time (5 Min Int)	Water Level (ft btoc)	Temp °C (3%)	pH (+/- 0.1)	Cond (mS/cm) (3%)	Turbidity (NTUs) (10%)	ORP (mV) (+/- 10)	DO (mg/L) (10%)
Casing Diameter (in.)	4.0	15:00	107.36	28.7	8.55	18.19	N/A	+73	3.50
Total Depth (ft btoc)	120	15:05	107.36	28.9	8.47	18.17	N/A	+73	2.83
Screen Interval (ft btoc)	100 - 120	15:10	107.36	29.0	8.43	18.18	N/A	+74	2.79
Depth to Water (ft btoc)	107.35	15:15	107.36	29.0	8.42	18.18	N/A	+74	2.78
Depth of Inlet (ft btoc)	115.00								
Discharge Time (sec)	25								
Fill Time (sec)	15								
Cycles per Minute	1.5								
Volume per Cycle (mL)	125								
Pump Rate (mL/min)	188								
Volume Purged (mL)	3,760								
Sample Time	15:15								

Purge Volume Calculation: Total must exceed tubing volume (1,204 mL) plus drawdown volume (2,460 mL/foot) = 1,229 mL

COMMENTS: Sampled 12/02/21

Well No.	DM-2	Time (5 Min Int)	Water Level (ft btoc)	Temp °C (3%)	pH (+/- 0.1)	Cond (mS/cm) (3%)	Turbidity (NTUs) (10%)	ORP (mV) (+/- 10)	DO (mg/L) (10%)
Casing Diameter (in.)	4.0	16:10	107.95	27.0	8.40	18.53	N/A	+50	1.95
Total Depth (ft btoc)	120	16:15	107.99	27.2	8.42	18.53	N/A	+39	1.17
Screen Interval (ft btoc)	100 - 120	16:20	108.02	27.5	8.40	18.54	N/A	+38	1.15
Depth to Water (ft btoc)	107.71	16:25	108.03	27.6	8.40	18.54	N/A	+37	1.13
Depth of Inlet (ft btoc)	115.00								
Discharge Time (sec)	27								
Fill Time (sec)	40								
Cycles per Minute	0.9								
Volume per Cycle (mL)	125								
Pump Rate (mL/min)	120								
Volume Purged (mL)	3,760								
Sample Time	16:25								

Purge Volume Calculation: Total must exceed tubing volume (1,204 mL) plus drawdown volume (2,460 mL/foot) = 1,992 mL

COMMENTS: Sampled 12/02/21

Well No.	DM-3	Time (5 Min Int)	Water Level (ft btoc)	Temp °C (3%)	pH (+/- 0.1)	Cond (mS/cm) (3%)	Turbidity (NTUs) (10%)	ORP (mV) (+/- 10)	DO (mg/L) (10%)
Casing Diameter (in.)	4.0	17:40	104.52	24.0	8.70	17.60	N/A	+46	2.71
Total Depth (ft btoc)	120	17:45	104.54	24.4	8.70	17.66	N/A	+44	2.67
Screen Interval (ft btoc)	100 - 120	17:50	104.56	24.5	8.71	17.68	N/A	+44	2.65
Depth to Water (ft btoc)	104.50								
Depth of Inlet (ft btoc)	115.00								
Discharge Time (sec)	27								
Fill Time (sec)	35								
Cycles per Minute	0.97								
Volume per Cycle (mL)	125								
Pump Rate (mL/min)	121								
Volume Purged (mL)	3,760								
Sample Time	17:50								

Purge Volume Calculation: Total must exceed tubing volume (1,204 mL) plus drawdown volume (2,460 mL/foot) = 1,352 mL

COMMENTS: Sampled 12/02/21

APPENDIX B

CHARTS 1 - 29

Chart 1: Chloride

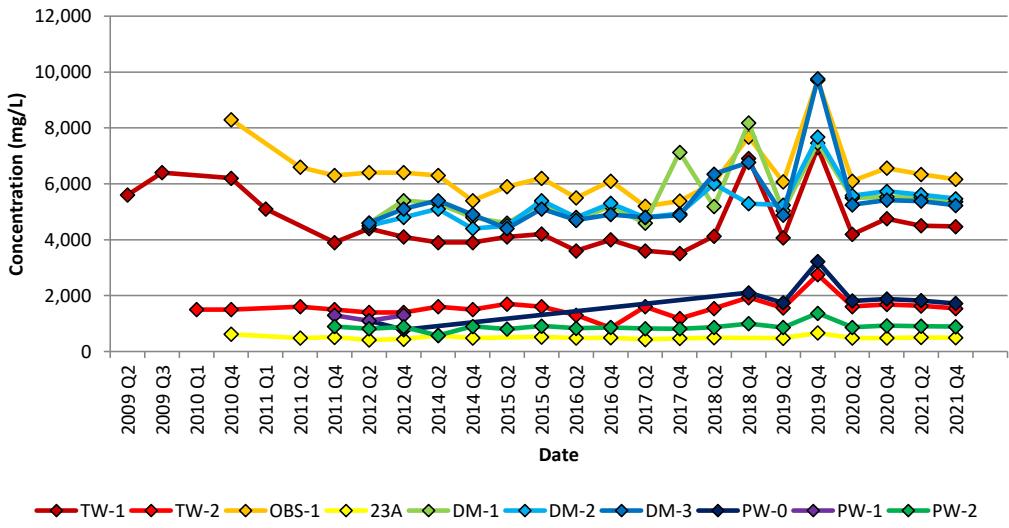


Chart 2: Sulfate (SO₄)

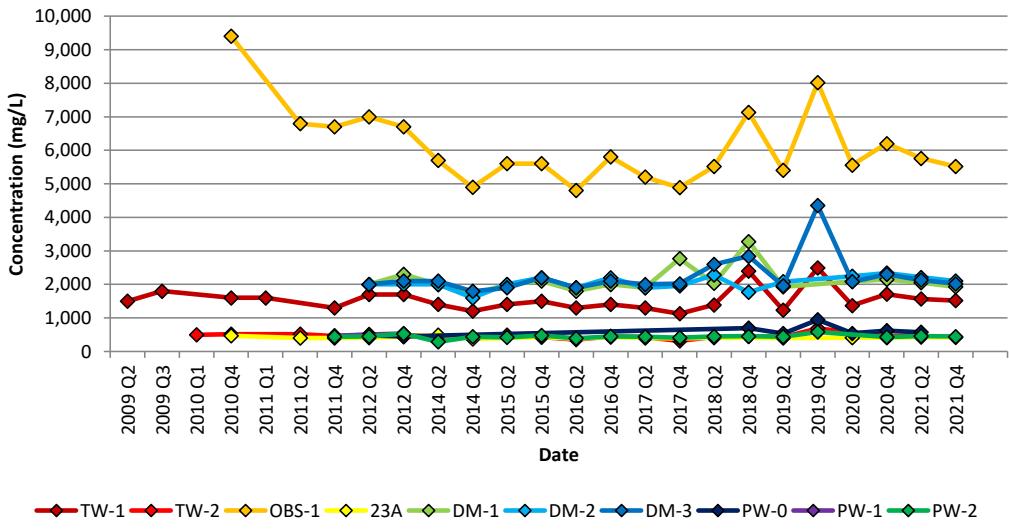


Chart 3: Nitrate (NO₃)

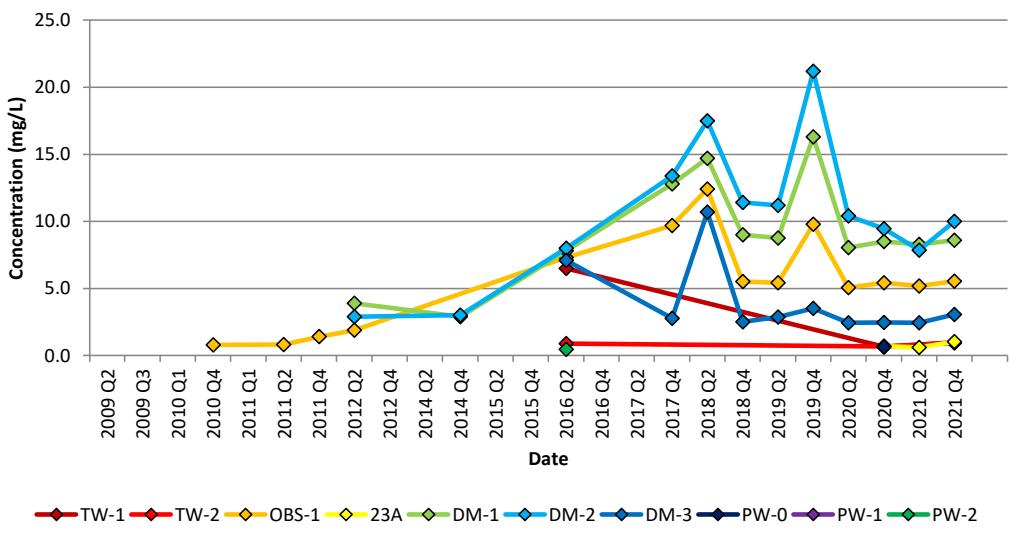


Chart 4: Calcium

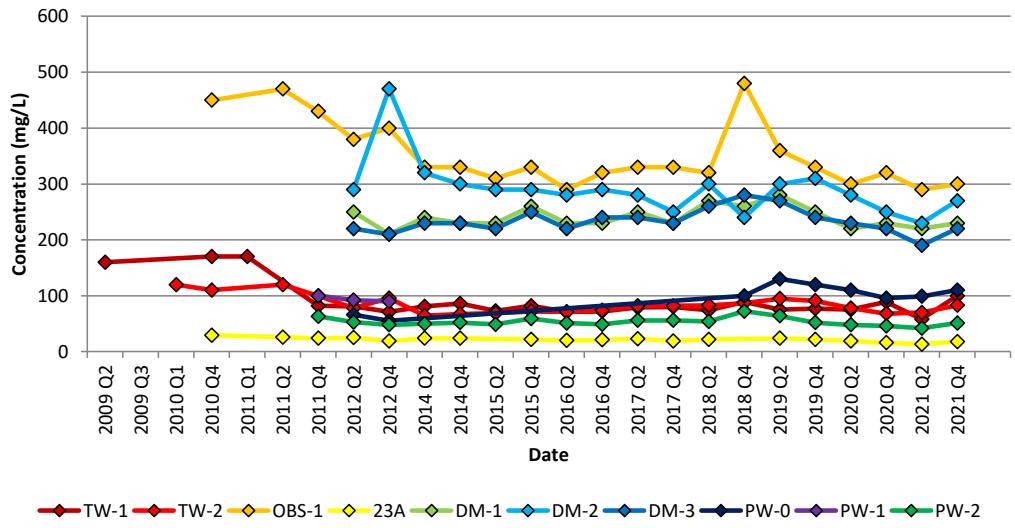


Chart 5: Copper

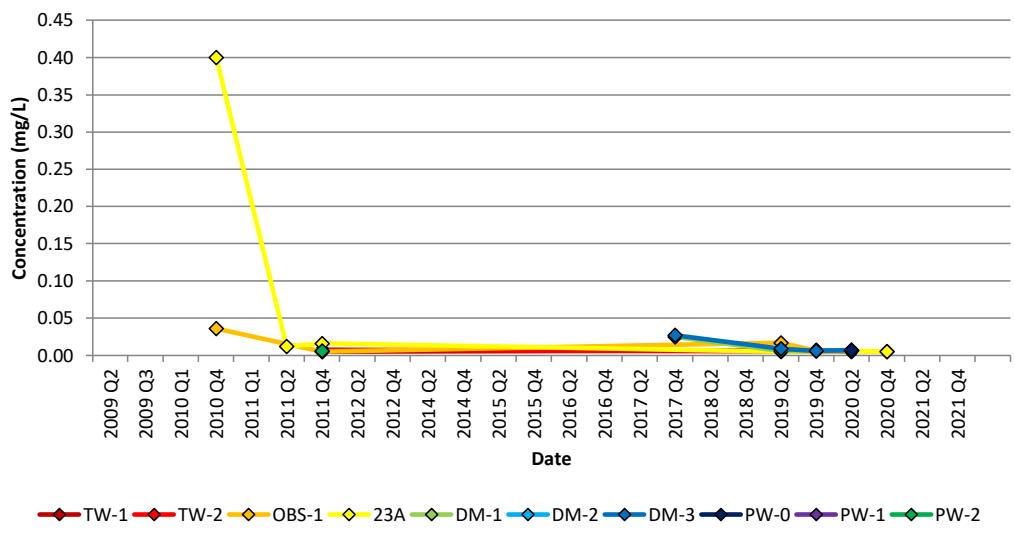


Chart 6: Sodium

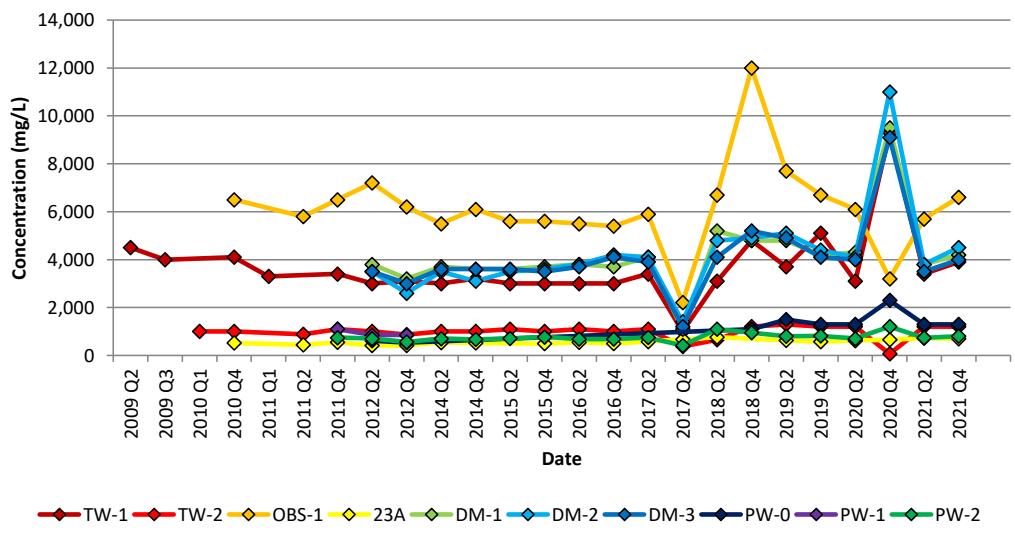


Chart 7: Potassium

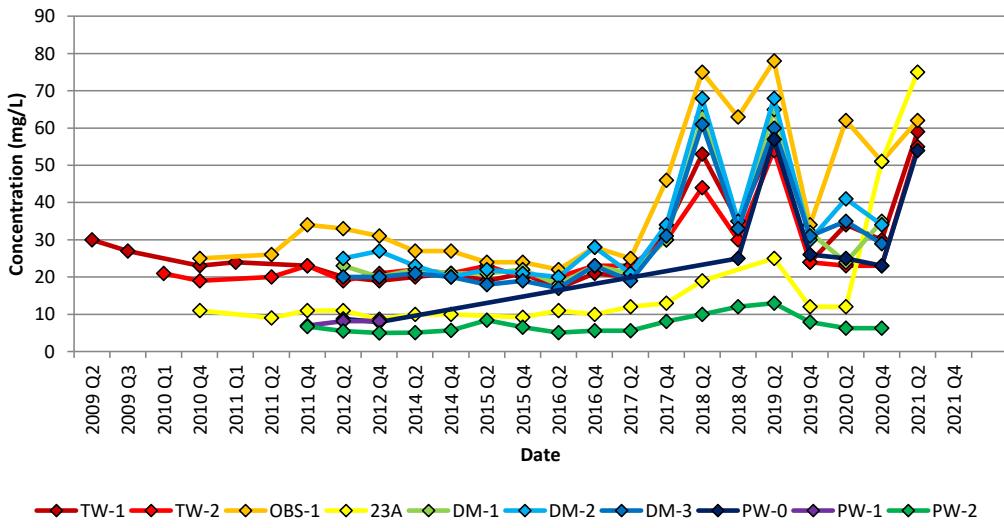


Chart 8: Iron

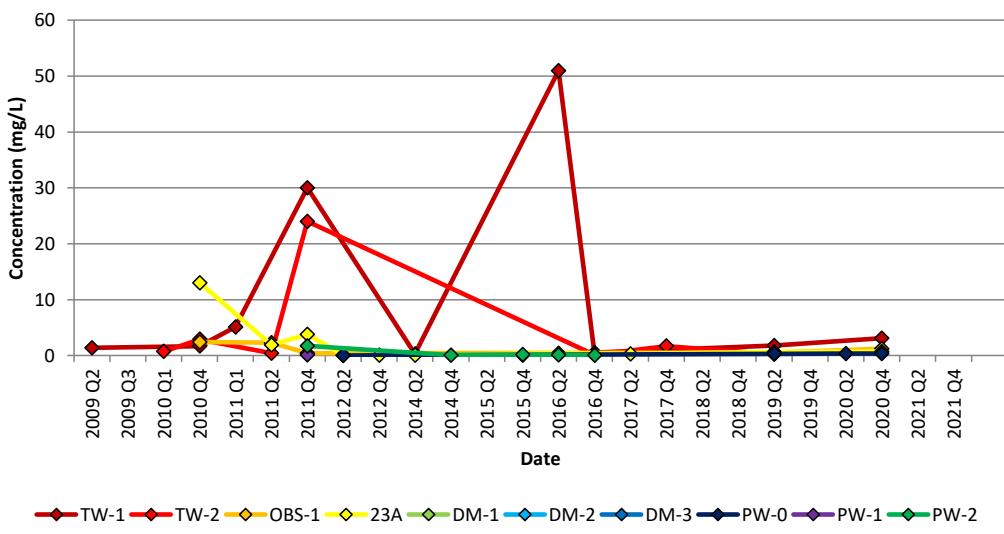


Chart 9: Magnesium

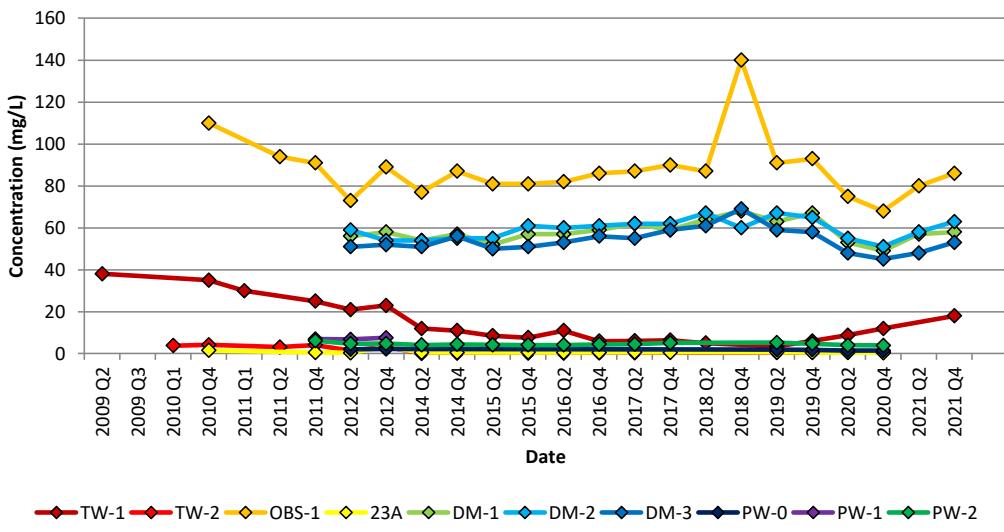


Chart 10: Antimony

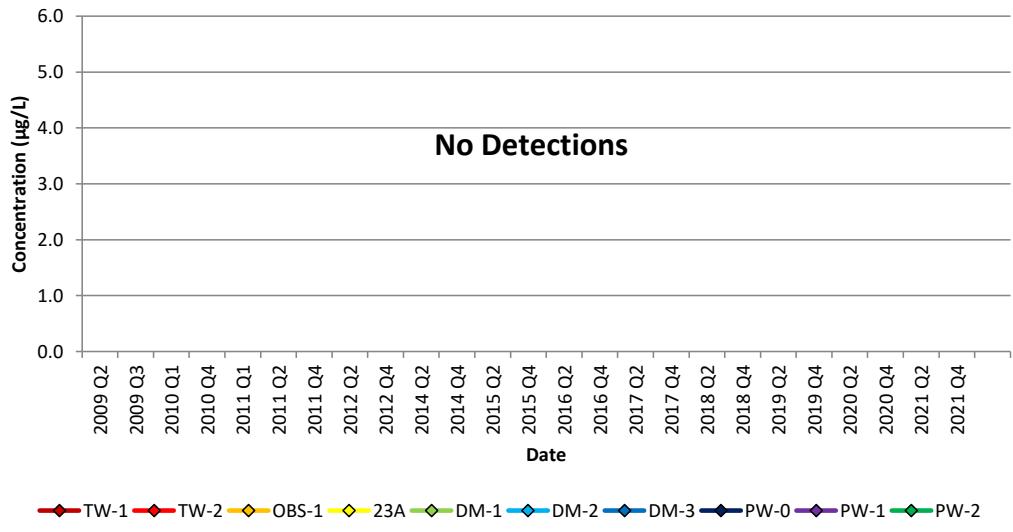


Chart 11: Arsenic

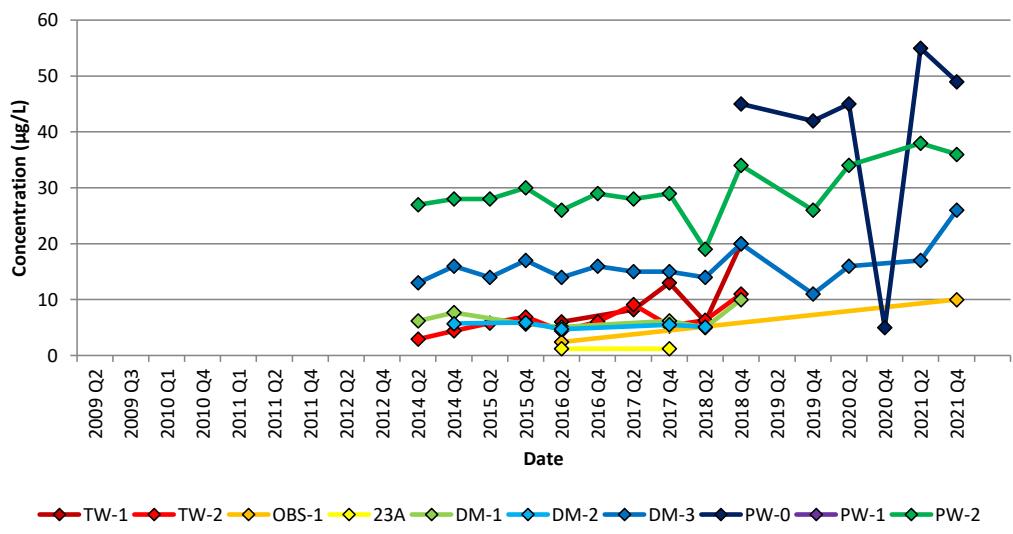


Chart 12: Barium

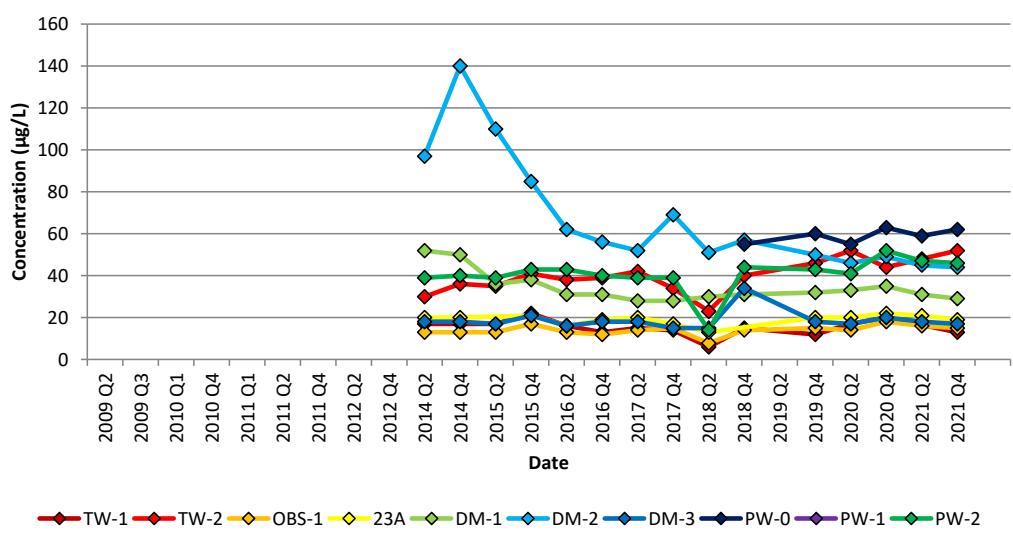


Chart 13: Cadmium

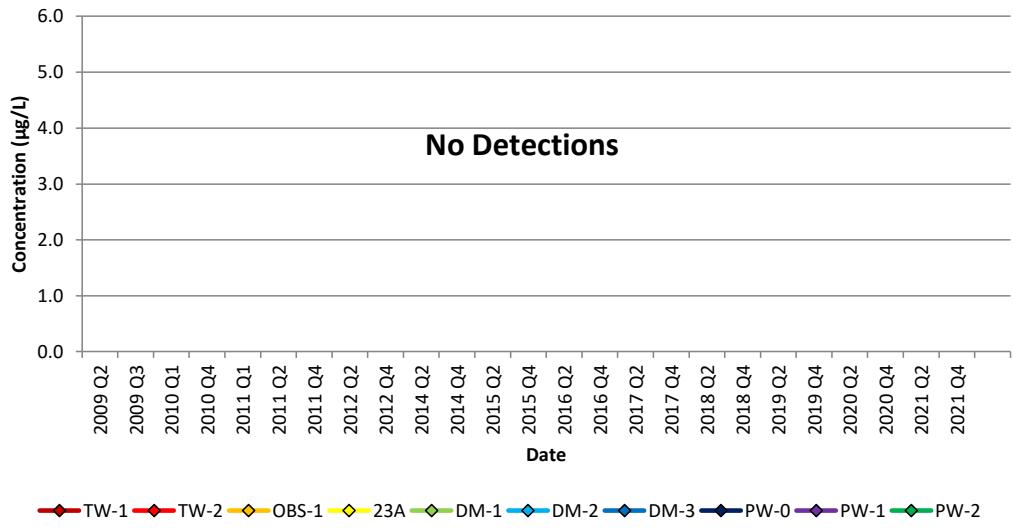


Chart 14: Chromium (Total)

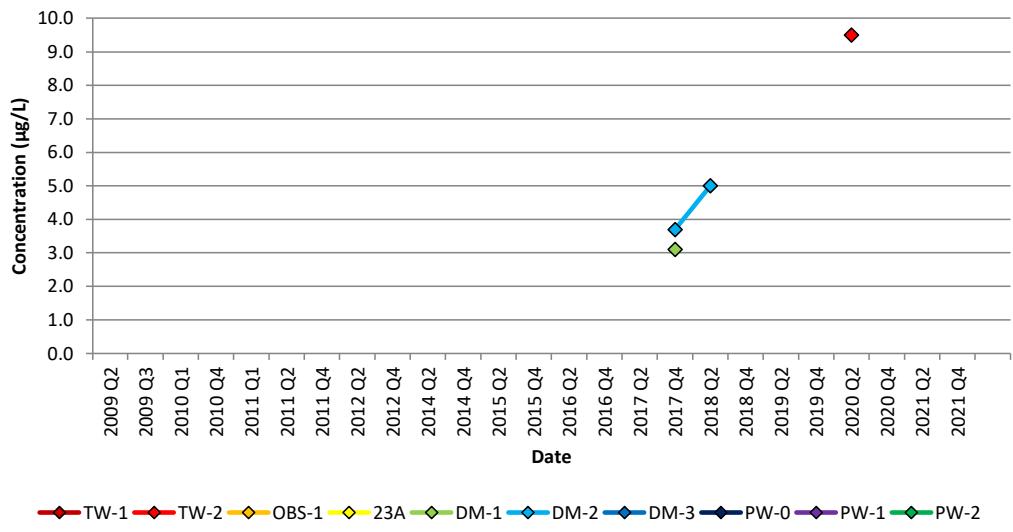


Chart 15: Cobalt

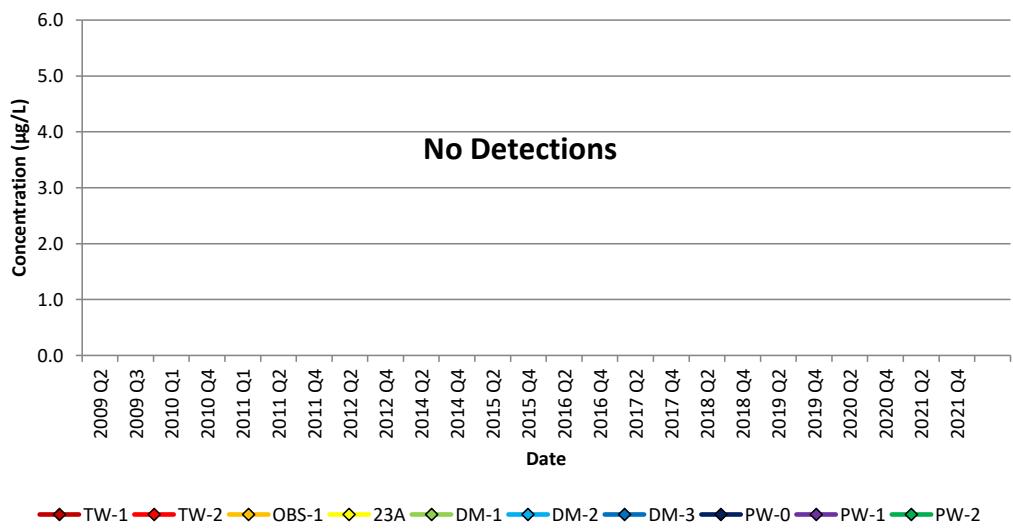


Chart 16: Lead

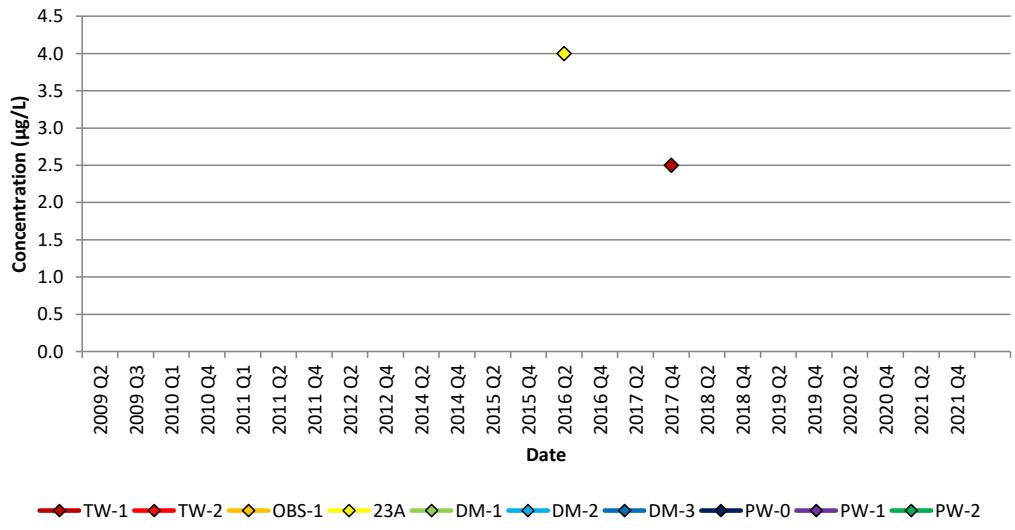


Chart 17: Manganese

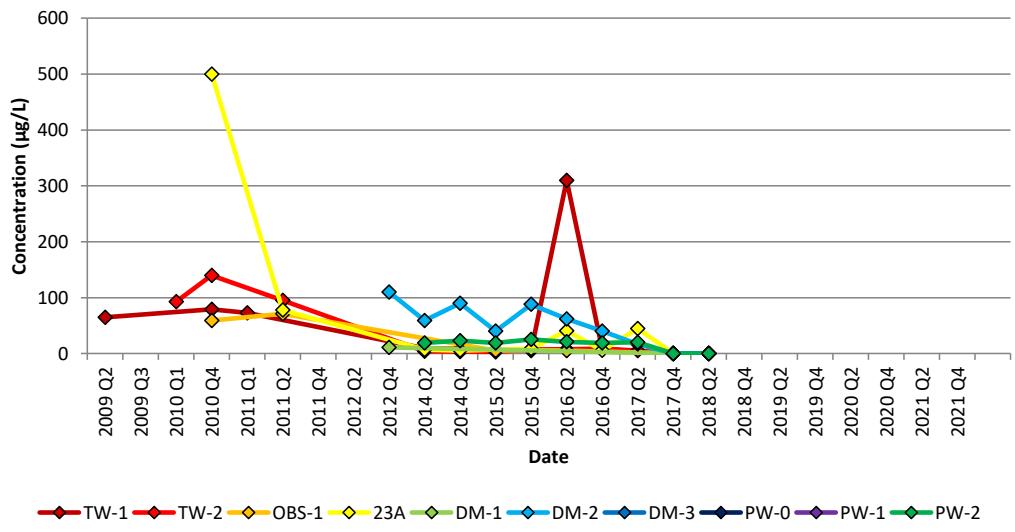


Chart 18: Nickel

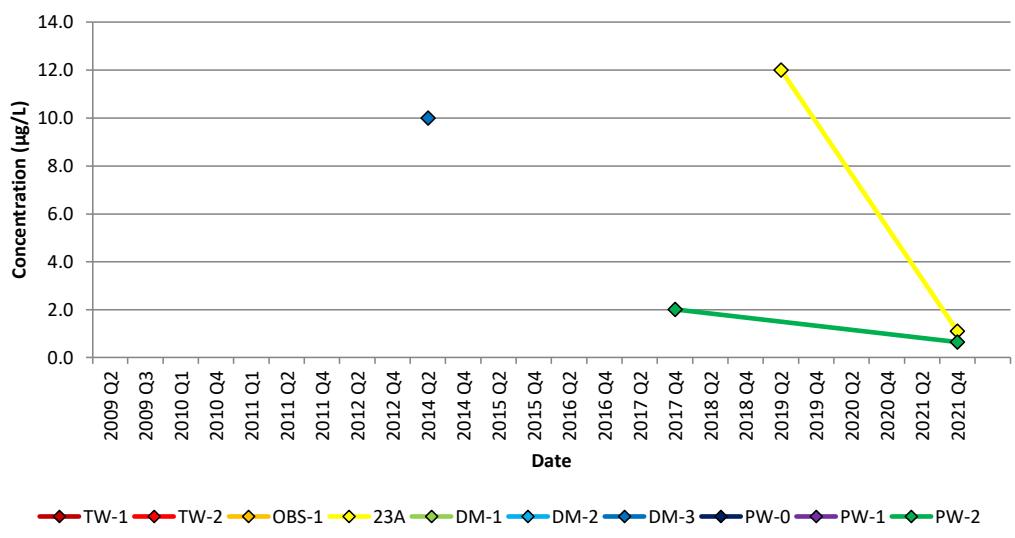


Chart 19: Selenium

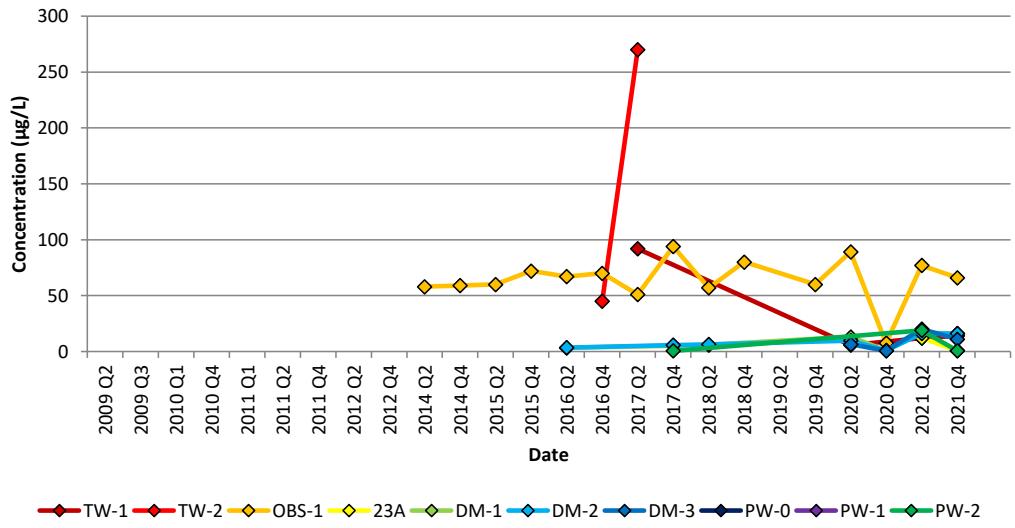


Chart 20: Zinc

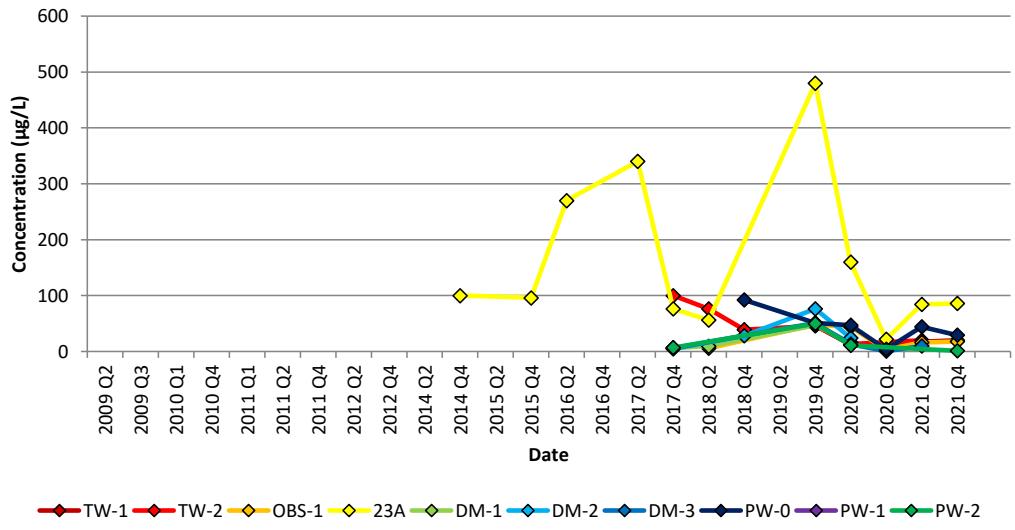


Chart 21: Mercury

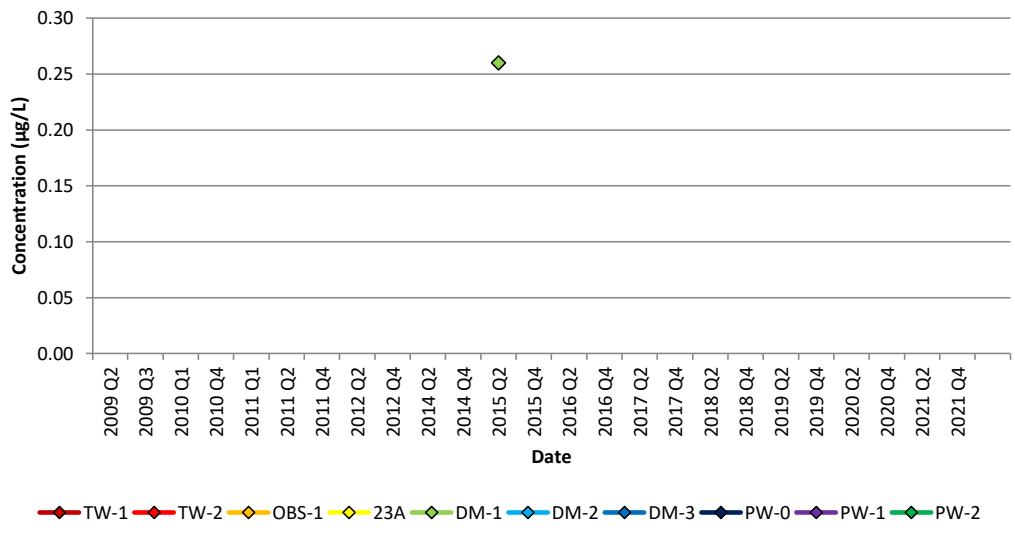


Chart 22: Total Dissolved Solids

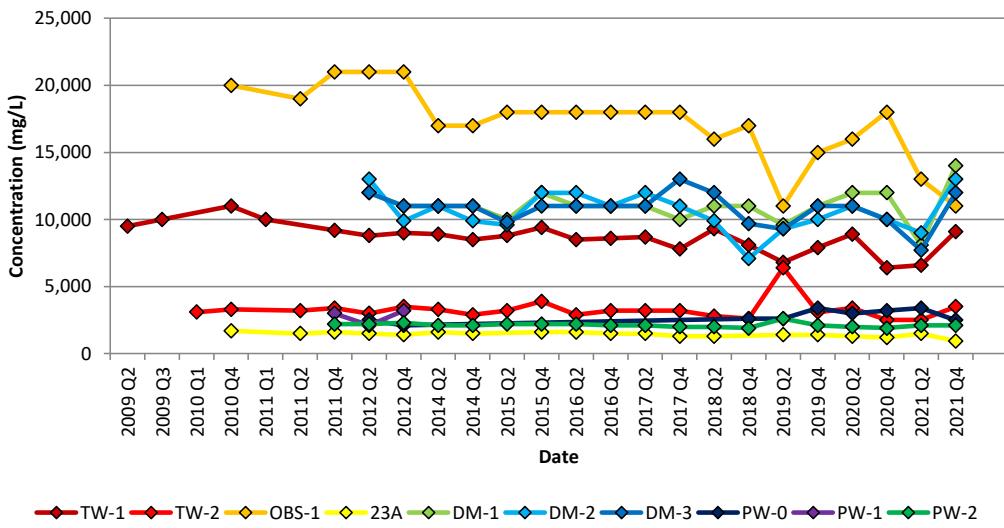


Chart 23: Specific Conductance

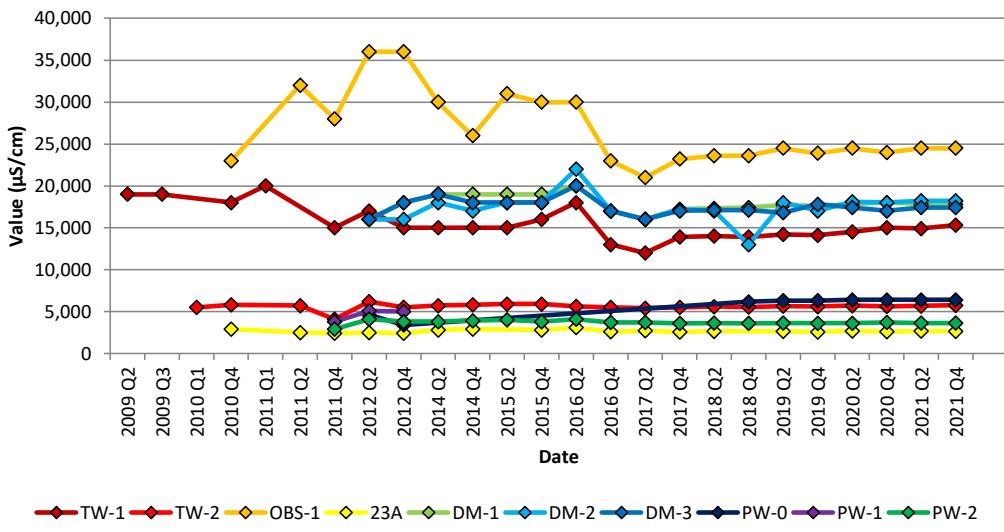


Chart 24: pH

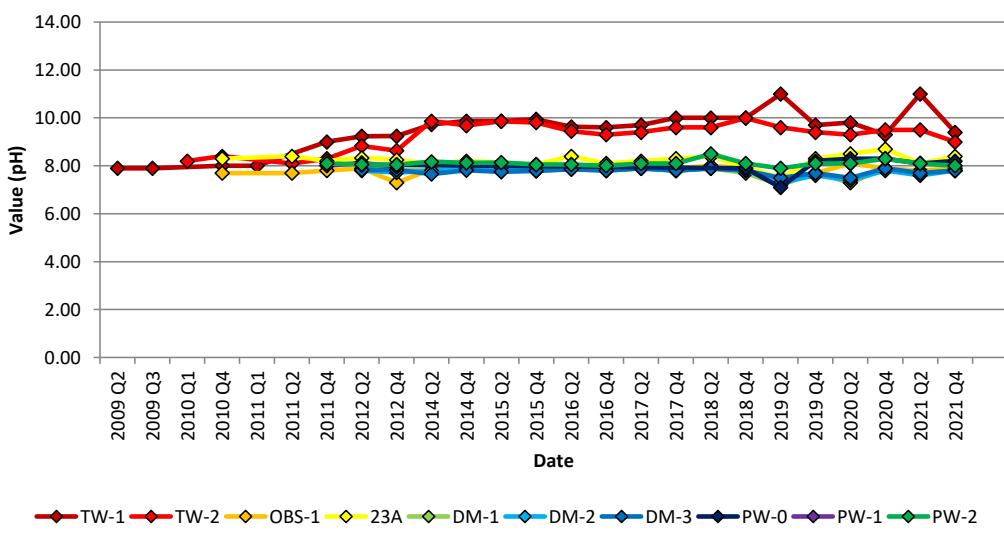


Chart 25: Oil & Grease

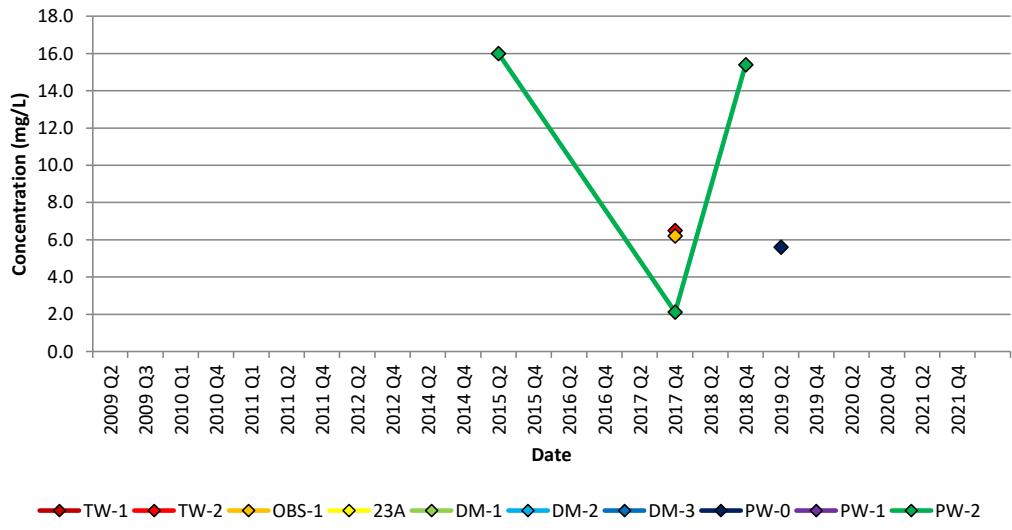


Chart 26: Heat Transfer Fluid

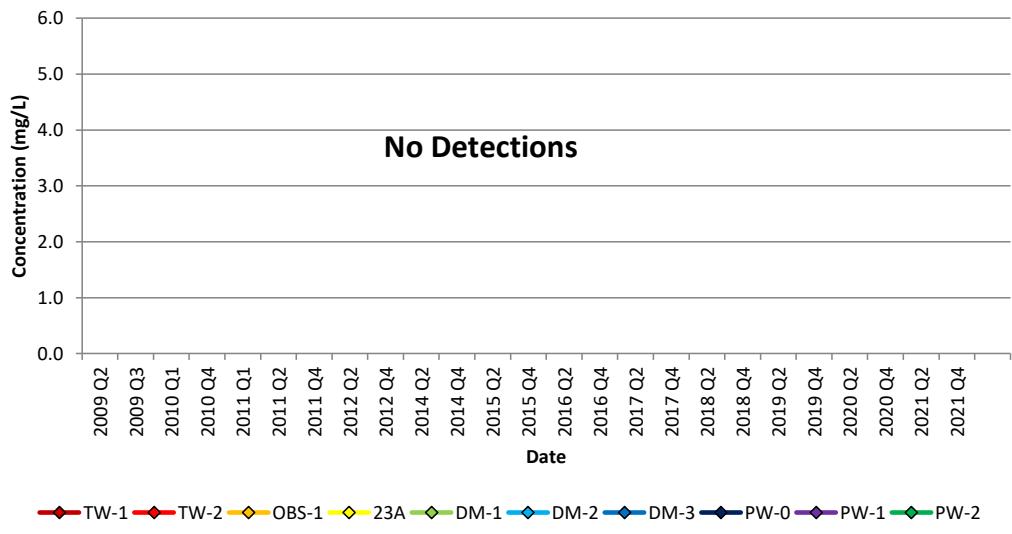


Chart 27: Deuterium

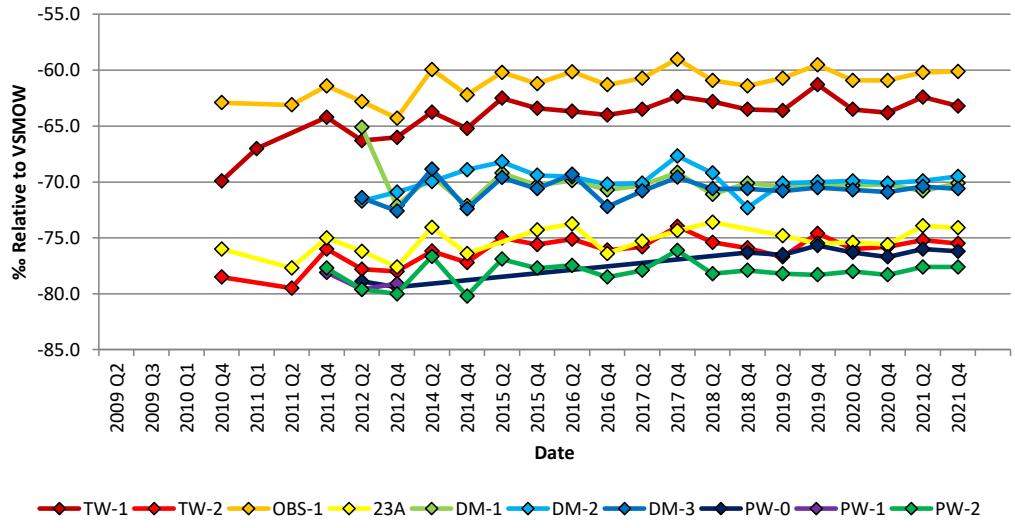


Chart 28: Oxygen-18

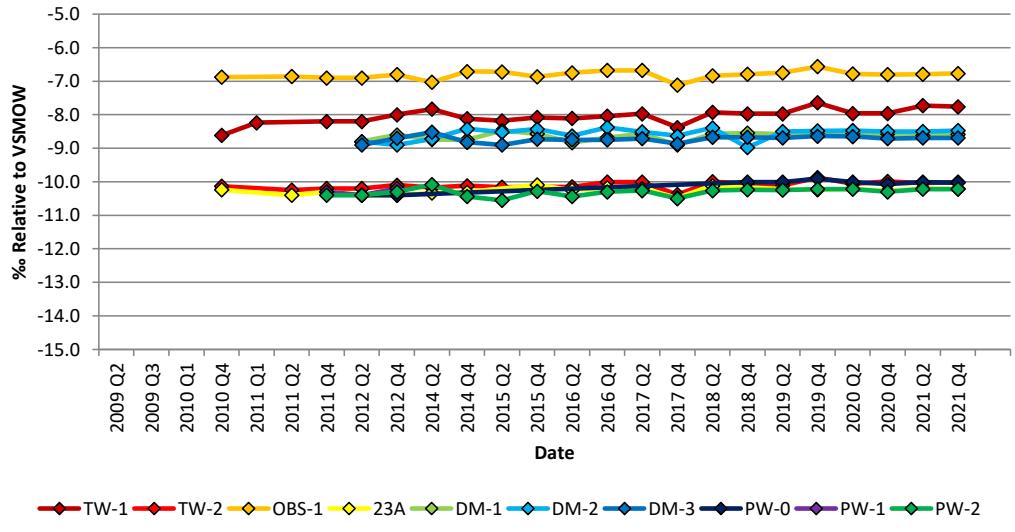
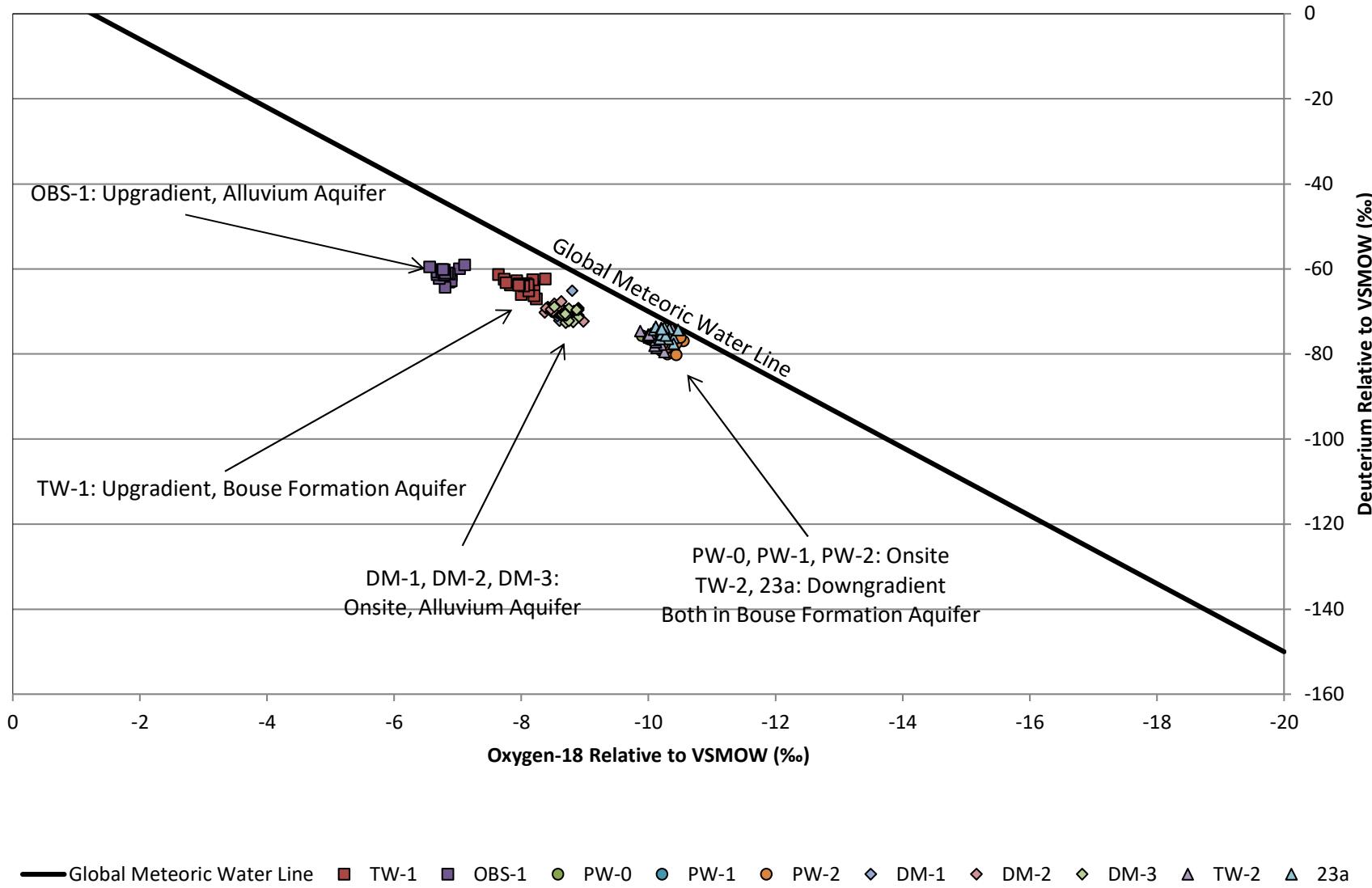


Chart 29: Deuterium vs. Oxygen-18 Concentrations Relative to Vienna Standard Mean Oceanic Water



APPENDIX C

MANN-KENDALL TREND ANALYSIS

Appendix C
2021 Second Semiannual Summary of Mann-Kendall Test for Trend
Genesis Solar Energy Project, Blythe, CA

Well ID	Constituent	Minimum	Maximum	Mean	Kendall Tau Value	2-Sided p-Value	Trend Direction at 95% Confidence Interval
TW-1	Arsenic	N/A	N/A	N/A	N/A	N/A	No New Data
	Barium	5.9	22	15	-0.288	0.18175	No Statistical Trend
	Calcium	58	170	91	-0.215	0.17486	No Statistical Trend
	Chloride	3,510	7,300	4,669	-0.131	0.37408	No Statistical Trend
	Selenium	N/A	N/A	N/A	N/A	N/A	No New Data
	Specific Conductivity	12,000	20,000	15,712	-0.454	0.00215	Decreasing Trend
	Sulfate	1,130	2,490	1,524	-0.003	1.00000	No Statistical Trend
	Total Dissolved Solids	6,400	10,000	8,684	-0.543	0.00018	Decreasing Trend
	Zinc	N/A	N/A	N/A	N/A	N/A	Not Enough Data
TW-2	Arsenic	N/A	N/A	N/A	N/A	N/A	No New Data
	Barium	23	52	40	0.574	0.00346	Increasing Trend
	Calcium	64	120	85	-0.208	0.17724	No Statistical Trend
	Chloride	850	2,750	1,564	0.275	0.07842	No Statistical Trend
	Selenium	N/A	N/A	N/A	N/A	N/A	No New Data
	Specific Conductivity	4,100	6,200	5,590	0.077	0.63316	No Statistical Trend
	Sulfate	N/A	N/A	N/A	N/A	N/A	No New Data
	Total Dissolved Solids	2,500	6,400	3,270	-0.119	0.45560	No Statistical Trend
	Zinc	N/A	N/A	N/A	N/A	N/A	Not Enough Data
OBS-1	Arsenic	N/A	N/A	N/A	N/A	N/A	No New Data
	Barium	7.8	18	14	0.395	0.05505	No Statistical Trend
	Calcium	290	480	352	-0.491	0.00292	Decreasing Trend
	Chloride	5,200	9,710	6,411	-0.110	0.50590	No Statistical Trend
	Selenium	7.6	94	65	0.153	0.45735	No Statistical Trend
	Specific Conductivity	21,000	36,000	26,776	-0.245	0.13620	No Statistical Trend
	Sulfate	4,800	9,400	6,105	-0.225	0.16424	No Statistical Trend
	Total Dissolved Solids	11,000	21,000	17,190	-0.621	0.00020	Decreasing Trend
	Zinc	N/A	N/A	N/A	N/A	N/A	Not Enough Data
23a	Arsenic	N/A	N/A	N/A	N/A	N/A	No New Data
	Barium	13	22	19	0.084	0.75183	No Statistical Trend
	Calcium	13	29	22	-0.625	0.00031	Decreasing Trend
	Chloride	410	667	499	0.030	0.88839	No Statistical Trend
	Selenium	N/A	N/A	N/A	N/A	N/A	No New Data
	Specific Conductivity	1,690	3,100	2,611	-0.024	0.91615	No Statistical Trend
	Sulfate	370	490	416	0.007	1.00000	No Statistical Trend
	Total Dissolved Solids	930	1,700	1,438	-0.586	0.00106	Decreasing Trend
	Zinc	22	480	161	-0.200	0.43627	No Statistical Trend
DM-1	Arsenic	N/A	N/A	N/A	N/A	N/A	No New Data
	Barium	28	52	34	-0.335	0.09838	No Statistical Trend
	Calcium	210	280	240	-0.022	0.93733	No Statistical Trend
	Chloride	4,600	8,180	5,523	0.325	0.06812	No Statistical Trend
	Selenium	N/A	N/A	N/A	N/A	N/A	No New Data
	Specific Conductivity	16,000	20,000	17,867	0.027	0.90859	No Statistical Trend
	Sulfate	1,700	3,280	2,119	0.128	0.50634	No Statistical Trend
	Total Dissolved Solids	8,100	14,000	11,039	0.000	1.00000	No Statistical Trend
	Zinc	N/A	N/A	N/A	N/A	N/A	Not Enough Data
DM-2	Arsenic	N/A	N/A	N/A	N/A	N/A	No New Data
	Barium	44	140	68	-0.829	0.00002	Decreasing Trend
	Calcium	230	470	291	-0.451	0.01268	Decreasing Trend
	Chloride	4,400	7,680	5,285	0.550	0.00183	Increasing Trend
	Selenium	N/A	N/A	N/A	N/A	N/A	No New Data
	Specific Conductivity	13,000	22,000	17,372	0.329	0.07489	No Statistical Trend
	Sulfate	1,600	2,340	2,045	0.318	0.08831	No Statistical Trend
	Total Dissolved Solids	7,100	13,000	10,594	-0.158	0.39851	No Statistical Trend
	Zinc	N/A	N/A	N/A	N/A	N/A	Not Enough Data
DM-3	Arsenic	11	26	16	0.311	0.14882	No Statistical Trend
	Barium	15	34	19	-0.042	0.87694	No Statistical Trend
	Calcium	190	280	233	0.084	0.67040	No Statistical Trend
	Chloride	4,400	9,760	5,434	0.330	0.06288	No Statistical Trend
	Selenium	N/A	N/A	N/A	N/A	N/A	No New Data
	Specific Conductivity	16,000	20,000	17,500	-0.158	0.39851	No Statistical Trend
	Sulfate	1,800	2,840	2,244	0.273	0.12791	No Statistical Trend
	Total Dissolved Solids	7,700	13,000	10,805	-0.197	0.30797	No Statistical Trend
	Zinc	N/A	N/A	N/A	N/A	N/A	Not Enough Data

Appendix C
2021 Second Semiannual Summary of Mann-Kendall Test for Trend
Genesis Solar Energy Project, Blythe, CA

Well ID	Constituent	Minimum	Maximum	Mean	Kendall Tau Value	2-Sided p-Value	Trend Direction at 95% Confidence Interval
PW-0	Arsenic	5	55	40	0.276	0.56609	No Statistical Trend
	Barium	55	63	59	0.414	0.33889	No Statistical Trend
	Calcium	55	130	98	0.197	0.52937	No Statistical Trend
	Chloride	780	3,220	1,797	0.167	0.60217	No Statistical Trend
	Selenium	N/A	N/A	N/A	N/A	N/A	Not Enough Data
	Specific Conductivity	3,400	6,400	5,816	0.800	0.00443	Increasing Trend
	Sulfate	N/A	N/A	N/A	N/A	N/A	No New Data
	Total Dissolved Solids	2,100	3,400	2,811	0.435	0.13781	No Statistical Trend
	Zinc	N/A	N/A	N/A	N/A	N/A	Not Enough Data
PW-1	Arsenic	N/A	N/A	N/A	N/A	N/A	Not Enough Data
	Barium	N/A	N/A	N/A	N/A	N/A	Not Enough Data
	Calcium	N/A	N/A	N/A	N/A	N/A	Not Enough Data
	Chloride	N/A	N/A	N/A	N/A	N/A	Not Enough Data
	Selenium	N/A	N/A	N/A	N/A	N/A	Not Enough Data
	Specific Conductivity	N/A	N/A	N/A	N/A	N/A	Not Enough Data
	Sulfate	N/A	N/A	N/A	N/A	N/A	Not Enough Data
	Total Dissolved Solids	N/A	N/A	N/A	N/A	N/A	Not Enough Data
	Zinc	N/A	N/A	N/A	N/A	N/A	Not Enough Data
PW-2	Arsenic	12	36	28	0.294	0.16747	No Statistical Trend
	Barium	7.3	53	40	0.355	0.08012	No Statistical Trend
	Calcium	42	72	53	-0.126	0.48177	No Statistical Trend
	Chloride	570	1,300	868	0.270	0.11518	No Statistical Trend
	Selenium	N/A	N/A	N/A	N/A	N/A	No New Data
	Specific Conductivity	2,900	4,100	3,686	-0.150	0.39839	No Statistical Trend
	Sulfate	290	530	435	0.145	0.42536	No Statistical Trend
	Total Dissolved Solids	1,300	2,300	2,026	-0.641	0.00031	Decreasing Trend
	Zinc	N/A	N/A	N/A	N/A	N/A	Not Enough Data

N/A - Not Applicable; not enough data to calculate trend or no new data for the reporting period

APPENDIX D

LABORATORY REPORTS



25712 Commercentre Drive
Lake Forest, California 92630
949.297.5020 Phone
949.297.5027 Fax

03 January 2022

Arlin Brewster
Northstar Environmental Remediation
26225 Enterprise Court
Lake Forest, CA 92630
RE: Genesis Solar Groundwater

Enclosed are the results of analyses for samples received by the laboratory on 12/03/21 14:15. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink, appearing to read "Jeff Lee".

Jeff Lee
Project Manager



25712 Commercentre Drive
Lake Forest, California 92630
949.297.5020 Phone
949.297.5027 Fax

Northstar Environmental Remediation
26225 Enterprise Court
Lake Forest CA, 92630

Project: Genesis Solar Groundwater
Project Number: 196-004-06
Project Manager: Arlin Brewster

Reported:
01/03/22 11:09

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
23A	T213691-01	Water	12/03/21 06:45	12/03/21 14:15
OBS-1	T213691-02	Water	12/03/21 09:35	12/03/21 14:15
TW-1	T213691-03	Water	12/03/21 09:00	12/03/21 14:15
TW-2	T213691-04	Water	12/02/21 12:35	12/03/21 14:15
PW-0	T213691-05	Water	12/02/21 13:46	12/03/21 14:15
PW-2	T213691-06	Water	12/02/21 13:15	12/03/21 14:15
DM-1	T213691-07	Water	12/02/21 15:15	12/03/21 14:15
DM-2	T213691-08	Water	12/02/21 16:25	12/03/21 14:15
DM-3	T213691-09	Water	12/02/21 17:50	12/03/21 14:15
DUP	T213691-10	Water	12/02/21 00:00	12/03/21 14:15

Metals analysis for EPA 200.8 and 200.7 were filtered in the field prior to laboratory analysis. The results are reported as dissolved metals. JL 12/20/21

Nitrate samples were originally analyzed within 48hr hold time. However, due to sample matrix, additional dilutions were required. The extra dilutions were conducted outside of method recommended hold time. JL 12/20/21

RE1: Report revised to correct dilution factor error occurred on the original EPA 200.7 analysis. The metal samples were diluted at 100x prior to analysis but the original report did not reflect the correct dilution calculation. JL 12/22/21

RE2: Conductivity result for sample T213691-02 was miscalculated by analyst and is off by a factor of 10x. Data has been revised and the corrected data reentered. JL 1/3/22

SunStar Laboratories, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Jeff Lee, Project Manager

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Northstar Environmental Remediation
26225 Enterprise Court
Lake Forest CA, 92630

Project: Genesis Solar Groundwater
Project Number: 196-004-06
Project Manager: Arlin Brewster

Reported:
01/03/22 11:09

DETECTIONS SUMMARY

Sample ID: 23A

Laboratory ID: T213691-01

Analyte	Reporting				Notes
	Result	Limit	Units	Method	
Arsenic	2.1	0.50	ug/l	200.8	FILT
Barium	19	0.50	ug/l	200.8	FILT
Nickel	1.1	0.50	ug/l	200.8	FILT
Selenium	0.91	0.50	ug/l	200.8	FILT
Zinc	86	0.50	ug/l	200.8	FILT
Calcium	18	10	mg/l	EPA 200.7	FILT, R-07
Sodium	690	50	mg/l	EPA 200.7	FILT, R-07
Total Dissolved Solids	930	10	mg/l	TDS by SM2540C	
pH	8.4	0.10	pH Units	SM 4500-H+B	O-04
Specific Conductance (EC)	2650	10.0	umhos/cm	SM2510b mod.	
Chloride	490	25.0	mg/l	EPA 300.0	
Sulfate as SO4	419	25.0	mg/l	EPA 300.0	
Nitrate as NO3	1.02	0.500	mg/l	EPA 300.0	
Nitrate as N	0.230	0.200	mg/l	EPA 300.0	

Sample ID: OBS-1

Laboratory ID: T213691-02

Analyte	Reporting				Notes
	Result	Limit	Units	Method	
Arsenic	10	10	ug/l	200.8	FILT
Barium	15	10	ug/l	200.8	FILT
Selenium	66	10	ug/l	200.8	FILT
Zinc	18	10	ug/l	200.8	FILT
Calcium	300	10	mg/l	EPA 200.7	FILT, R-07
Magnesium	86	10	mg/l	EPA 200.7	FILT, R-07
Sodium	6600	50	mg/l	EPA 200.7	FILT, R-07
Total Dissolved Solids	11000	10	mg/l	TDS by SM2540C	
pH	7.9	0.10	pH Units	SM 4500-H+B	O-04
Specific Conductance (EC)	24500	10.0	umhos/cm	SM2510b mod.	
Chloride	6160	500	mg/l	EPA 300.0	
Sulfate as SO4	5520	500	mg/l	EPA 300.0	
Nitrate as NO3	5.55	0.500	mg/l	EPA 300.0	
Nitrate as N	1.25	0.200	mg/l	EPA 300.0	

SunStar Laboratories, Inc.

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Jeff Lee, Project Manager

Page 2 of 34

Northstar Environmental Remediation
26225 Enterprise Court
Lake Forest CA, 92630

Project: Genesis Solar Groundwater
Project Number: 196-004-06
Project Manager: Arlin Brewster

Reported:
01/03/22 11:09

Sample ID: TW-1

Laboratory ID: T213691-03

Analyte	Reporting				Notes
	Result	Limit	Units	Method	
Barium	13	10	ug/l	200.8	FILT
Selenium	14	10	ug/l	200.8	FILT
Zinc	20	10	ug/l	200.8	FILT
Calcium	100	10	mg/l	EPA 200.7	FILT, R-07
Magnesium	18	10	mg/l	EPA 200.7	R-07, FILT
Sodium	3900	50	mg/l	EPA 200.7	R-07, FILT
Total Dissolved Solids	9100	10	mg/l	TDS by SM2540C	
pH	9.4	0.10	pH Units	SM 4500-H+B	O-04
Specific Conductance (EC)	15300	10.0	umhos/cm	SM2510b mod.	
Chloride	4470	500	mg/l	EPA 300.0	
Sulfate as SO4	1520	500	mg/l	EPA 300.0	
Nitrate as NO3	0.974	0.500	mg/l	EPA 300.0	
Nitrate as N	0.220	0.200	mg/l	EPA 300.0	

Sample ID: TW-2

Laboratory ID: T213691-04

Analyte	Reporting				Notes
	Result	Limit	Units	Method	
Barium	52	10	ug/l	200.8	FILT
Calcium	83	10	mg/l	EPA 200.7	FILT, R-07
Sodium	1200	50	mg/l	EPA 200.7	FILT, R-07
Total Dissolved Solids	3500	10	mg/l	TDS by SM2540C	
pH	9.0	0.10	pH Units	SM 4500-H+B	O-04
Specific Conductance (EC)	5750	10.0	umhos/cm	SM2510b mod.	
Chloride	1540	500	mg/l	EPA 300.0	
Nitrate as NO3	0.944	0.500	mg/l	EPA 300.0	
Nitrate as N	0.210	0.200	mg/l	EPA 300.0	

Sample ID: PW-0

Laboratory ID: T213691-05

Analyte	Reporting				Notes
	Result	Limit	Units	Method	
Arsenic	49	10	ug/l	200.8	FILT
Barium	62	10	ug/l	200.8	FILT
Zinc	29	10	ug/l	200.8	FILT
Calcium	110	10	mg/l	EPA 200.7	FILT, R-07
Sodium	1300	50	mg/l	EPA 200.7	FILT, R-07

SunStar Laboratories, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Jeff Lee, Project Manager

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Northstar Environmental Remediation
26225 Enterprise Court
Lake Forest CA, 92630

Project: Genesis Solar Groundwater
Project Number: 196-004-06
Project Manager: Arlin Brewster

Reported:
01/03/22 11:09

Sample ID: PW-0

Laboratory ID: T213691-05

Analyte	Reporting				Notes
	Result	Limit	Units	Method	
Total Dissolved Solids	2500	10	mg/l	TDS by SM2540C	
pH	8.2	0.10	pH Units	SM 4500-H+B	O-04
Specific Conductance (EC)	6400	10.0	umhos/cm	SM2510b mod.	
Fluoride	6.29	0.500	mg/l	EPA 300.0	
Chloride	1720	500	mg/l	EPA 300.0	

Sample ID: PW-2

Laboratory ID: T213691-06

Analyte	Reporting				Notes
	Result	Limit	Units	Method	
Arsenic	36	0.50	ug/l	200.8	FILT
Barium	47	0.50	ug/l	200.8	FILT
Nickel	0.70	0.50	ug/l	200.8	FILT
Selenium	0.75	0.50	ug/l	200.8	FILT
Zinc	2.1	0.50	ug/l	200.8	FILT
Calcium	52	10	mg/l	EPA 200.7	FILT, R-07
Sodium	800	50	mg/l	EPA 200.7	FILT, R-07
Total Dissolved Solids	1300	10	mg/l	TDS by SM2540C	
pH	8.2	0.10	pH Units	SM 4500-H+B	O-04
Specific Conductance (EC)	3630	10.0	umhos/cm	SM2510b mod.	
Fluoride	6.70	0.500	mg/l	EPA 300.0	
Chloride	886	50.0	mg/l	EPA 300.0	
Sulfate as SO4	444	50.0	mg/l	EPA 300.0	

Sample ID: DM-1

Laboratory ID: T213691-07

Analyte	Reporting				Notes
	Result	Limit	Units	Method	
Barium	29	10	ug/l	200.8	FILT
Selenium	16	10	ug/l	200.8	FILT
Calcium	230	10	mg/l	EPA 200.7	FILT, R-07
Magnesium	58	10	mg/l	EPA 200.7	R-07, FILT
Sodium	4200	50	mg/l	EPA 200.7	FILT, R-07
Total Dissolved Solids	14000	10	mg/l	TDS by SM2540C	
pH	7.8	0.10	pH Units	SM 4500-H+B	O-04
Specific Conductance (EC)	17800	10.0	umhos/cm	SM2510b mod.	
Chloride	5360	500	mg/l	EPA 300.0	

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Northstar Environmental Remediation
26225 Enterprise Court
Lake Forest CA, 92630

Project: Genesis Solar Groundwater
Project Number: 196-004-06
Project Manager: Arlin Brewster

Reported:
01/03/22 11:09

Sample ID: DM-1

Laboratory ID: T213691-07

Analyte	Reporting				Notes
	Result	Limit	Units	Method	
Sulfate as SO ₄	1930	500	mg/l	EPA 300.0	
Nitrate as NO ₃	8.59	0.500	mg/l	EPA 300.0	
Nitrate as N	1.94	0.200	mg/l	EPA 300.0	

Sample ID: DM-2

Laboratory ID: T213691-08

Analyte	Reporting				Notes
	Result	Limit	Units	Method	
Barium	44	10	ug/l	200.8	FILT
Selenium	16	10	ug/l	200.8	FILT
Calcium	270	10	mg/l	EPA 200.7	FILT, R-07
Magnesium	63	10	mg/l	EPA 200.7	R-07, FILT
Sodium	4500	50	mg/l	EPA 200.7	FILT, R-07
Total Dissolved Solids	13000	10	mg/l	TDS by SM2540C	
pH	7.8	0.10	pH Units	SM 4500-H+B	O-04
Specific Conductance (EC)	18200	10.0	umhos/cm	SM2510b mod.	
Chloride	5470	500	mg/l	EPA 300.0	
Sulfate as SO ₄	2100	500	mg/l	EPA 300.0	
Nitrate as NO ₃	10.0	0.500	mg/l	EPA 300.0	
Nitrate as N	2.26	0.200	mg/l	EPA 300.0	

Sample ID: DM-3

Laboratory ID: T213691-09

Analyte	Reporting				Notes
	Result	Limit	Units	Method	
Arsenic	26	10	ug/l	200.8	FILT
Barium	17	10	ug/l	200.8	FILT
Selenium	11	10	ug/l	200.8	FILT
Calcium	220	10	mg/l	EPA 200.7	FILT, R-07
Magnesium	53	10	mg/l	EPA 200.7	FILT, R-07
Sodium	4000	50	mg/l	EPA 200.7	FILT, R-07
Total Dissolved Solids	12000	10	mg/l	TDS by SM2540C	
pH	7.8	0.10	pH Units	SM 4500-H+B	O-04
Specific Conductance (EC)	17400	10.0	umhos/cm	SM2510b mod.	
Chloride	5230	500	mg/l	EPA 300.0	
Sulfate as SO ₄	2020	500	mg/l	EPA 300.0	
Nitrate as NO ₃	3.06	0.500	mg/l	EPA 300.0	

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Northstar Environmental Remediation
26225 Enterprise Court
Lake Forest CA, 92630

Project: Genesis Solar Groundwater
Project Number: 196-004-06
Project Manager: Arlin Brewster

Reported:
01/03/22 11:09

Sample ID: DM-3

Laboratory ID: T213691-09

Analyte	Reporting				Notes
	Result	Limit	Units	Method	
Nitrate as N	0.690	0.200	mg/l	EPA 300.0	

Sample ID: DUP

Laboratory ID: T213691-10

Analyte	Reporting				Notes
	Result	Limit	Units	Method	
Arsenic	38	0.50	ug/l	200.8	FILT
Barium	46	0.50	ug/l	200.8	FILT
Nickel	0.64	0.50	ug/l	200.8	FILT
Selenium	0.78	0.50	ug/l	200.8	FILT
Zinc	1.2	0.50	ug/l	200.8	FILT
Calcium	51	10	mg/l	EPA 200.7	FILT, R-07
Sodium	800	50	mg/l	EPA 200.7	FILT, R-07
Total Dissolved Solids	2100	10	mg/l	TDS by SM2540C	
pH	8.0	0.10	pH Units	SM 4500-H+B	O-04
Specific Conductance (EC)	3640	10.0	umhos/cm	SM2510b mod.	
Chloride	891	50.0	mg/l	EPA 300.0	
Sulfate as SO4	448	50.0	mg/l	EPA 300.0	

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Northstar Environmental Remediation
26225 Enterprise Court
Lake Forest CA, 92630

Project: Genesis Solar Groundwater
Project Number: 196-004-06
Project Manager: Arlin Brewster

Reported:
01/03/22 11:09

23A

T213691-01 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Metals by EPA 200 Series Methods

Copper	ND	0.50	mg/l	100	1120828	12/08/21	12/14/21	EPA 200.7	FILT, R-07
Calcium	18	10	"	"	"	"	12/14/21	"	FILT, R-07
Iron	ND	20	"	"	"	"	"	"	FILT, R-07
Magnesium	ND	10	"	"	"	"	"	"	FILT, R-07
Potassium	ND	50	"	"	"	"	"	"	FILT, R-07
Sodium	690	50	"	"	"	"	"	"	FILT, R-07
Antimony	ND	0.50	ug/l	1	1120617	12/06/21	12/09/21	200.8	FILT
Arsenic	2.1	0.50	"	"	"	"	"	"	FILT
Barium	19	0.50	"	"	"	"	"	"	FILT
Cadmium	ND	0.50	"	"	"	"	"	"	FILT
Chromium	ND	0.50	"	"	"	"	"	"	FILT
Cobalt	ND	0.50	"	"	"	"	"	"	FILT
Lead	ND	0.50	"	"	"	"	"	"	FILT
Nickel	1.1	0.50	"	"	"	"	"	"	FILT
Selenium	0.91	0.50	"	"	"	"	"	"	FILT
Zinc	86	0.50	"	"	"	"	"	"	FILT

Cold Vapor Extraction EPA 7470/7471

Mercury	ND	1.0	ug/l	1	1120840	12/08/21	12/10/21	EPA 7470A Water
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Conventional Chemistry Parameters by APHA/EPA/ASTM Methods

Oil & Grease	ND	5.68	mg/l	1	1120835	12/08/21	12/13/21	EPA 1664B
Specific Conductance (EC)	2650	10.0	umhos/cm	"	1120719	12/07/21	12/07/21	SM2510b mod.
pH	8.4	0.10	pH Units	"	1120610	12/06/21	12/07/21	SM 4500-H+B
Total Dissolved Solids	930	10	mg/l	"	1120838	12/06/21	12/10/21	TDS by SM2540C

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Northstar Environmental Remediation
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Lake Forest CA, 92630

Project: Genesis Solar Groundwater
Project Number: 196-004-06
Project Manager: Arlin Brewster

Reported:
01/03/22 11:09

23A

T213691-01 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Anions by EPA Method 300.0

Chloride	490	25.0	mg/l	5	1120323	12/03/21	12/06/21	EPA 300.0	
Sulfate as SO ₄	419	25.0	"	"	"	"	"	"	"
Nitrate as NO ₃	1.02	0.500	"	1	"	"	12/03/21	"	"
Nitrate as N	0.230	0.200	"	"	"	"	"	"	"

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Northstar Environmental Remediation
26225 Enterprise Court
Lake Forest CA, 92630

Project: Genesis Solar Groundwater
Project Number: 196-004-06
Project Manager: Arlin Brewster

Reported:
01/03/22 11:09

OBS-1

T213691-02 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Metals by EPA 200 Series Methods

Copper	ND	0.50	mg/l	100	1120828	12/08/21	12/14/21	EPA 200.7	FILT, R-07
Calcium	300	10	"	"	"	"	12/14/21	"	FILT, R-07
Iron	ND	20	"	"	"	"	12/14/21	"	FILT, R-07
Magnesium	86	10	"	"	"	"	"	"	FILT, R-07
Potassium	ND	50	"	"	"	"	12/14/21	"	FILT, R-07
Sodium	6600	50	"	"	"	"	"	"	FILT, R-07
Antimony	ND	10	ug/l	20	1120617	12/06/21	12/09/21	200.8	FILT
Arsenic	10	10	"	"	"	"	"	"	FILT
Barium	15	10	"	"	"	"	"	"	FILT
Cadmium	ND	10	"	"	"	"	"	"	FILT
Chromium	ND	10	"	"	"	"	"	"	FILT
Cobalt	ND	10	"	"	"	"	"	"	FILT
Lead	ND	10	"	"	"	"	"	"	FILT
Nickel	ND	10	"	"	"	"	"	"	FILT
Selenium	66	10	"	"	"	"	"	"	FILT
Zinc	18	10	"	"	"	"	"	"	FILT

Cold Vapor Extraction EPA 7470/7471

Mercury	ND	1.0	ug/l	1	1120840	12/08/21	12/10/21	EPA 7470A Water
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Conventional Chemistry Parameters by APHA/EPA/ASTM Methods

Oil & Grease	ND	5.00	mg/l	1	1120835	12/08/21	12/13/21	EPA 1664B
Specific Conductance (EC)	24500	10.0	umhos/cm	"	1120719	12/07/21	12/07/21	SM2510b mod.
pH	7.9	0.10	pH Units	"	1120610	12/06/21	12/07/21	SM 4500-H+B O-04
Total Dissolved Solids	11000	10	mg/l	"	1120838	12/06/21	12/10/21	TDS by SM2540C

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Northstar Environmental Remediation
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Lake Forest CA, 92630

Project: Genesis Solar Groundwater
Project Number: 196-004-06
Project Manager: Arlin Brewster

Reported:
01/03/22 11:09

OBS-1

T213691-02 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Anions by EPA Method 300.0

Chloride	6160	500	mg/l	100	1120323	12/03/21	12/06/21	EPA 300.0	
Sulfate as SO ₄	5520	500	"	"	"	"	"	"	"
Nitrate as NO ₃	5.55	0.500	"	1	"	"	12/03/21	"	"
Nitrate as N	1.25	0.200	"	"	"	"	"	"	"

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Northstar Environmental Remediation
26225 Enterprise Court
Lake Forest CA, 92630

Project: Genesis Solar Groundwater
Project Number: 196-004-06
Project Manager: Arlin Brewster

Reported:
01/03/22 11:09

TW-1

T213691-03 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Metals by EPA 200 Series Methods

Copper	ND	0.50	mg/l	100	1120828	12/08/21	12/14/21	EPA 200.7	R-07, FILT
Calcium	100	10	"	"	"	"	12/14/21	"	FILT, R-07
Iron	ND	20	"	"	"	"	"	"	R-07, FILT
Magnesium	18	10	"	"	"	"	"	"	R-07, FILT
Potassium	ND	50	"	"	"	"	"	"	R-07, FILT
Sodium	3900	50	"	"	"	"	"	"	R-07, FILT
Antimony	ND	10	ug/l	20	1120617	12/06/21	12/09/21	200.8	FILT
Arsenic	ND	10	"	"	"	"	"	"	FILT
Barium	13	10	"	"	"	"	"	"	FILT
Cadmium	ND	10	"	"	"	"	"	"	FILT
Chromium	ND	10	"	"	"	"	"	"	FILT
Cobalt	ND	10	"	"	"	"	"	"	FILT
Lead	ND	10	"	"	"	"	"	"	FILT
Nickel	ND	10	"	"	"	"	"	"	FILT
Selenium	14	10	"	"	"	"	"	"	FILT
Zinc	20	10	"	"	"	"	"	"	FILT

Cold Vapor Extraction EPA 7470/7471

Mercury	ND	1.0	ug/l	1	1120840	12/08/21	12/10/21	EPA 7470A Water
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Conventional Chemistry Parameters by APHA/EPA/ASTM Methods

Oil & Grease	ND	5.00	mg/l	1	1120835	12/08/21	12/13/21	EPA 1664B
Specific Conductance (EC)	15300	10.0	umhos/cm	"	1120719	12/07/21	12/07/21	SM2510b mod.
pH	9.4	0.10	pH Units	"	1120610	12/06/21	12/07/21	SM 4500-H+B O-04
Total Dissolved Solids	9100	10	mg/l	"	1120838	12/06/21	12/10/21	TDS by SM2540C

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Lake Forest CA, 92630

Project: Genesis Solar Groundwater
Project Number: 196-004-06
Project Manager: Arlin Brewster

Reported:
01/03/22 11:09

TW-1

T213691-03 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Anions by EPA Method 300.0

Chloride	4470	500	mg/l	100	1120323	12/03/21	12/06/21	EPA 300.0	
Sulfate as SO ₄	1520	500	"	"	"	"	"	"	"
Nitrate as NO ₃	0.974	0.500	"	1	"	"	12/03/21	"	"
Nitrate as N	0.220	0.200	"	"	"	"	"	"	"

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26225 Enterprise Court
Lake Forest CA, 92630

Project: Genesis Solar Groundwater
Project Number: 196-004-06
Project Manager: Arlin Brewster

Reported:
01/03/22 11:09

TW-2

T213691-04 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Metals by EPA 200 Series Methods

Copper	ND	0.50	mg/l	100	1120828	12/08/21	12/14/21	EPA 200.7	FILT, R-07
Calcium	83	10	"	"	"	"	12/14/21	"	FILT, R-07
Iron	ND	20	"	"	"	"	"	"	FILT, R-07
Potassium	ND	50	"	"	"	"	"	"	FILT, R-07
Magnesium	ND	10	"	"	"	"	"	"	FILT, R-07
Sodium	1200	50	"	"	"	"	"	"	FILT, R-07
Antimony	ND	10	ug/l	20	1120617	12/06/21	12/09/21	200.8	FILT
Arsenic	ND	10	"	"	"	"	"	"	FILT
Barium	52	10	"	"	"	"	"	"	FILT
Cadmium	ND	10	"	"	"	"	"	"	FILT
Chromium	ND	10	"	"	"	"	"	"	FILT
Cobalt	ND	10	"	"	"	"	"	"	FILT
Lead	ND	10	"	"	"	"	"	"	FILT
Nickel	ND	10	"	"	"	"	"	"	FILT
Selenium	ND	10	"	"	"	"	"	"	FILT
Zinc	ND	10	"	"	"	"	"	"	FILT

Cold Vapor Extraction EPA 7470/7471

Mercury	ND	1.0	ug/l	1	1120840	12/08/21	12/10/21	EPA 7470A Water
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Conventional Chemistry Parameters by APHA/EPA/ASTM Methods

Oil & Grease	ND	5.00	mg/l	1	1120835	12/08/21	12/13/21	EPA 1664B
Specific Conductance (EC)	5750	10.0	umhos/cm	"	1120719	12/07/21	12/07/21	SM2510b mod.
pH	9.0	0.10	pH Units	"	1120610	12/06/21	12/07/21	SM 4500-H+B
Total Dissolved Solids	3500	10	mg/l	"	1120838	12/06/21	12/10/21	TDS by SM2540C

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26225 Enterprise Court
Lake Forest CA, 92630

Project: Genesis Solar Groundwater
Project Number: 196-004-06
Project Manager: Arlin Brewster

Reported:
01/03/22 11:09

TW-2

T213691-04 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Anions by EPA Method 300.0

Chloride	1540	500	mg/l	100	1120323	12/03/21	12/06/21	EPA 300.0	
Sulfate as SO ₄	ND	500	"	"	"	"	"	"	"
Nitrate as NO ₃	0.944	0.500	"	1	"	"	12/03/21	"	
Nitrate as N	0.210	0.200	"	"	"	"	"	"	"

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Northstar Environmental Remediation
26225 Enterprise Court
Lake Forest CA, 92630

Project: Genesis Solar Groundwater
Project Number: 196-004-06
Project Manager: Arlin Brewster

Reported:
01/03/22 11:09

PW-0

T213691-05 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Metals by EPA 200 Series Methods

Copper	ND	0.50	mg/l	100	1120828	12/08/21	12/14/21	EPA 200.7	FILT, R-07
Calcium	110	10	"	"	"	"	12/14/21	"	FILT, R-07
Iron	ND	20	"	"	"	"	"	"	FILT, R-07
Potassium	ND	50	"	"	"	"	"	"	FILT, R-07
Magnesium	ND	10	"	"	"	"	"	"	FILT, R-07
Sodium	1300	50	"	"	"	"	"	"	FILT, R-07
Antimony	ND	10	ug/l	20	1120617	12/06/21	12/09/21	200.8	FILT
Arsenic	49	10	"	"	"	"	"	"	FILT
Barium	62	10	"	"	"	"	"	"	FILT
Cadmium	ND	10	"	"	"	"	"	"	FILT
Chromium	ND	10	"	"	"	"	"	"	FILT
Cobalt	ND	10	"	"	"	"	"	"	FILT
Lead	ND	10	"	"	"	"	"	"	FILT
Nickel	ND	10	"	"	"	"	"	"	FILT
Selenium	ND	10	"	"	"	"	"	"	FILT
Zinc	29	10	"	"	"	"	"	"	FILT

Cold Vapor Extraction EPA 7470/7471

Mercury	ND	1.0	ug/l	1	1120840	12/08/21	12/10/21	EPA 7470A Water
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Conventional Chemistry Parameters by APHA/EPA/ASTM Methods

Oil & Grease	ND	5.00	mg/l	1	1120835	12/08/21	12/13/21	EPA 1664B
Specific Conductance (EC)	6400	10.0	umhos/cm	"	1120719	12/07/21	12/07/21	SM2510b mod.
pH	8.2	0.10	pH Units	"	1120610	12/06/21	12/07/21	SM 4500-H+B O-04
Total Dissolved Solids	2500	10	mg/l	"	1120838	12/06/21	12/10/21	TDS by SM2540C

SunStar Laboratories, Inc.

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Northstar Environmental Remediation
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Lake Forest CA, 92630

Project: Genesis Solar Groundwater
Project Number: 196-004-06
Project Manager: Arlin Brewster

Reported:
01/03/22 11:09

PW-0

T213691-05 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Anions by EPA Method 300.0

Fluoride	6.29	0.500	mg/l	1	1120323	12/03/21	12/03/21	EPA 300.0	
Chloride	1720	500	"	100	"	"	12/06/21	"	
Sulfate as SO4	ND	500	"	"	"	"	"	"	
Nitrate as NO3	ND	0.500	"	1	"	"	12/03/21	"	
Nitrate as N	ND	0.200	"	"	"	"	"	"	

SunStar Laboratories, Inc.

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Jeff Lee, Project Manager

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Northstar Environmental Remediation
26225 Enterprise Court
Lake Forest CA, 92630

Project: Genesis Solar Groundwater
Project Number: 196-004-06
Project Manager: Arlin Brewster

Reported:
01/03/22 11:09

PW-2

T213691-06 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Metals by EPA 200 Series Methods

Copper	ND	0.50	mg/l	100	1120828	12/08/21	12/14/21	EPA 200.7	FILT, R-07
Calcium	52	10	"	"	"	"	12/14/21	"	FILT, R-07
Iron	ND	20	"	"	"	"	"	"	FILT, R-07
Magnesium	ND	10	"	"	"	"	"	"	FILT, R-07
Potassium	ND	50	"	"	"	"	"	"	FILT, R-07
Sodium	800	50	"	"	"	"	"	"	FILT, R-07
Antimony	ND	0.50	ug/l	1	1120617	12/06/21	12/09/21	200.8	FILT
Arsenic	36	0.50	"	"	"	"	"	"	FILT
Barium	47	0.50	"	"	"	"	"	"	FILT
Cadmium	ND	0.50	"	"	"	"	"	"	FILT
Chromium	ND	0.50	"	"	"	"	"	"	FILT
Cobalt	ND	0.50	"	"	"	"	"	"	FILT
Lead	ND	0.50	"	"	"	"	"	"	FILT
Nickel	0.70	0.50	"	"	"	"	"	"	FILT
Selenium	0.75	0.50	"	"	"	"	"	"	FILT
Zinc	2.1	0.50	"	"	"	"	"	"	FILT

Cold Vapor Extraction EPA 7470/7471

Mercury	ND	1.0	ug/l	1	1120840	12/08/21	12/10/21	EPA 7470A Water
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Conventional Chemistry Parameters by APHA/EPA/ASTM Methods

Oil & Grease	ND	5.00	mg/l	1	1120835	12/08/21	12/13/21	EPA 1664B
Specific Conductance (EC)	3630	10.0	umhos/cm	"	1120719	12/07/21	12/07/21	SM2510b mod.
pH	8.2	0.10	pH Units	"	1120610	12/06/21	12/07/21	SM 4500-H+B O-04
Total Dissolved Solids	1300	10	mg/l	"	1120838	12/06/21	12/10/21	TDS by SM2540C

SunStar Laboratories, Inc.

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Northstar Environmental Remediation
26225 Enterprise Court
Lake Forest CA, 92630

Project: Genesis Solar Groundwater
Project Number: 196-004-06
Project Manager: Arlin Brewster

Reported:
01/03/22 11:09

PW-2

T213691-06 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Anions by EPA Method 300.0

Fluoride	6.70	0.500	mg/l	1	1120323	12/03/21	12/03/21	EPA 300.0	
Chloride	886	50.0	"	10	"	"	12/06/21	"	
Sulfate as SO ₄	444	50.0	"	"	"	"	"	"	
Nitrate as NO ₃	ND	0.500	"	1	"	"	12/03/21	"	
Nitrate as N	ND	0.200	"	"	"	"	"	"	

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Jeff Lee, Project Manager

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Northstar Environmental Remediation
26225 Enterprise Court
Lake Forest CA, 92630

Project: Genesis Solar Groundwater
Project Number: 196-004-06
Project Manager: Arlin Brewster

Reported:
01/03/22 11:09

DM-1

T213691-07 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Metals by EPA 200 Series Methods

Copper	ND	0.50	mg/l	100	1120828	12/08/21	12/14/21	EPA 200.7	R-07, FILT
Calcium	230	10	"	"	"	"	12/14/21	"	FILT, R-07
Iron	ND	20	"	"	"	"	"	"	R-07, FILT
Potassium	ND	50	"	"	"	"	"	"	R-07, FILT
Magnesium	58	10	"	"	"	"	"	"	R-07, FILT
Sodium	4200	50	"	"	"	"	"	"	FILT, R-07
Antimony	ND	10	ug/l	20	1120617	12/06/21	12/09/21	200.8	FILT
Arsenic	ND	10	"	"	"	"	"	"	FILT
Barium	29	10	"	"	"	"	"	"	FILT
Cadmium	ND	10	"	"	"	"	"	"	FILT
Chromium	ND	10	"	"	"	"	"	"	FILT
Cobalt	ND	10	"	"	"	"	"	"	FILT
Lead	ND	10	"	"	"	"	"	"	FILT
Nickel	ND	10	"	"	"	"	"	"	FILT
Selenium	16	10	"	"	"	"	"	"	FILT
Zinc	ND	10	"	"	"	"	"	"	FILT

Cold Vapor Extraction EPA 7470/7471

Mercury	ND	1.0	ug/l	1	1120840	12/08/21	12/10/21	EPA 7470A Water
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Conventional Chemistry Parameters by APHA/EPA/ASTM Methods

Oil & Grease	ND	5.00	mg/l	1	1120835	12/08/21	12/13/21	EPA 1664B
Specific Conductance (EC)	17800	10.0	umhos/cm	"	1120719	12/07/21	12/07/21	SM2510b mod.
pH	7.8	0.10	pH Units	"	1120610	12/06/21	12/07/21	SM 4500-H+B O-04
Total Dissolved Solids	14000	10	mg/l	"	1120838	12/06/21	12/10/21	TDS by SM2540C

SunStar Laboratories, Inc.

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Northstar Environmental Remediation
26225 Enterprise Court
Lake Forest CA, 92630

Project: Genesis Solar Groundwater
Project Number: 196-004-06
Project Manager: Arlin Brewster

Reported:
01/03/22 11:09

DM-1

T213691-07 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Anions by EPA Method 300.0

Chloride	5360	500	mg/l	100	1120323	12/03/21	12/03/21	EPA 300.0	
Sulfate as SO ₄	1930	500	"	"	"	"	"	"	"
Nitrate as NO ₃	8.59	0.500	"	1	"	"	12/03/21	"	
Nitrate as N	1.94	0.200	"	"	"	"	"	"	"

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Jeff Lee, Project Manager

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Northstar Environmental Remediation
26225 Enterprise Court
Lake Forest CA, 92630

Project: Genesis Solar Groundwater
Project Number: 196-004-06
Project Manager: Arlin Brewster

Reported:
01/03/22 11:09

DM-2

T213691-08 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Metals by EPA 200 Series Methods

Copper	ND	0.50	mg/l	100	1120828	12/08/21	12/14/21	EPA 200.7	R-07, FILT
Calcium	270	10	"	"	"	"	12/14/21	"	FILT, R-07
Iron	ND	20	"	"	"	"	"	"	R-07, FILT
Magnesium	63	10	"	"	"	"	"	"	R-07, FILT
Potassium	ND	50	"	"	"	"	"	"	R-07, FILT
Sodium	4500	50	"	"	"	"	"	"	FILT, R-07
Antimony	ND	10	ug/l	20	1120617	12/06/21	12/09/21	200.8	FILT
Arsenic	ND	10	"	"	"	"	"	"	FILT
Barium	44	10	"	"	"	"	"	"	FILT
Cadmium	ND	10	"	"	"	"	"	"	FILT
Chromium	ND	10	"	"	"	"	"	"	FILT
Cobalt	ND	10	"	"	"	"	"	"	FILT
Lead	ND	10	"	"	"	"	"	"	FILT
Nickel	ND	10	"	"	"	"	"	"	FILT
Selenium	16	10	"	"	"	"	"	"	FILT
Zinc	ND	10	"	"	"	"	"	"	FILT

Cold Vapor Extraction EPA 7470/7471

Mercury	ND	1.0	ug/l	1	1120840	12/08/21	12/10/21	EPA 7470A Water
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Conventional Chemistry Parameters by APHA/EPA/ASTM Methods

Oil & Grease	ND	5.00	mg/l	1	1120835	12/08/21	12/13/21	EPA 1664B
Specific Conductance (EC)	18200	10.0	umhos/cm	"	1120719	12/07/21	12/07/21	SM2510b mod.
pH	7.8	0.10	pH Units	"	1120610	12/06/21	12/07/21	SM 4500-H+B
Total Dissolved Solids	13000	10	mg/l	"	1120838	12/06/21	12/10/21	TDS by SM2540C

SunStar Laboratories, Inc.

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Northstar Environmental Remediation
26225 Enterprise Court
Lake Forest CA, 92630

Project: Genesis Solar Groundwater
Project Number: 196-004-06
Project Manager: Arlin Brewster

Reported:
01/03/22 11:09

DM-2

T213691-08 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Anions by EPA Method 300.0

Chloride	5470	500	mg/l	100	1120323	12/03/21	12/07/21	EPA 300.0	
Sulfate as SO ₄	2100	500	"	"	"	"	"	"	"
Nitrate as NO ₃	10.0	0.500	"	1	"	"	12/03/21	"	"
Nitrate as N	2.26	0.200	"	"	"	"	"	"	"

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Northstar Environmental Remediation
26225 Enterprise Court
Lake Forest CA, 92630

Project: Genesis Solar Groundwater
Project Number: 196-004-06
Project Manager: Arlin Brewster

Reported:
01/03/22 11:09

DM-3

T213691-09 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Metals by EPA 200 Series Methods

Copper	ND	0.50	mg/l	100	1120828	12/08/21	12/14/21	EPA 200.7	FILT, R-07
Calcium	220	10	"	"	"	"	12/14/21	"	FILT, R-07
Iron	ND	20	"	"	"	"	"	"	FILT, R-07
Magnesium	53	10	"	"	"	"	"	"	FILT, R-07
Potassium	ND	50	"	"	"	"	"	"	FILT, R-07
Sodium	4000	50	"	"	"	"	"	"	FILT, R-07
Antimony	ND	10	ug/l	20	1120617	12/06/21	12/09/21	200.8	FILT
Arsenic	26	10	"	"	"	"	"	"	FILT
Barium	17	10	"	"	"	"	"	"	FILT
Cadmium	ND	10	"	"	"	"	"	"	FILT
Chromium	ND	10	"	"	"	"	"	"	FILT
Cobalt	ND	10	"	"	"	"	"	"	FILT
Lead	ND	10	"	"	"	"	"	"	FILT
Nickel	ND	10	"	"	"	"	"	"	FILT
Selenium	11	10	"	"	"	"	"	"	FILT
Zinc	ND	10	"	"	"	"	"	"	FILT

Cold Vapor Extraction EPA 7470/7471

Mercury	ND	1.0	ug/l	1	1120840	12/08/21	12/10/21	EPA 7470A Water
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Conventional Chemistry Parameters by APHA/EPA/ASTM Methods

Oil & Grease	ND	5.00	mg/l	1	1120835	12/08/21	12/13/21	EPA 1664B
Specific Conductance (EC)	17400	10.0	umhos/cm	"	1120719	12/07/21	12/07/21	SM2510b mod.
pH	7.8	0.10	pH Units	"	1120610	12/06/21	12/07/21	SM 4500-H+B O-04
Total Dissolved Solids	12000	10	mg/l	"	1120838	12/06/21	12/10/21	TDS by SM2540C

SunStar Laboratories, Inc.

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Northstar Environmental Remediation
26225 Enterprise Court
Lake Forest CA, 92630

Project: Genesis Solar Groundwater
Project Number: 196-004-06
Project Manager: Arlin Brewster

Reported:
01/03/22 11:09

DM-3

T213691-09 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Anions by EPA Method 300.0

Chloride	5230	500	mg/l	100	1120323	12/03/21	12/07/21	EPA 300.0	
Sulfate as SO ₄	2020	500	"	"	"	"	"	"	"
Nitrate as NO ₃	3.06	0.500	"	1	"	"	12/04/21	"	"
Nitrate as N	0.690	0.200	"	"	"	"	"	"	"

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Northstar Environmental Remediation
26225 Enterprise Court
Lake Forest CA, 92630

Project: Genesis Solar Groundwater
Project Number: 196-004-06
Project Manager: Arlin Brewster

Reported:
01/03/22 11:09

DUP

T213691-10 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Metals by EPA 200 Series Methods

Copper	ND	0.50	mg/l	100	1120828	12/08/21	12/14/21	EPA 200.7	FILT, R-07
Calcium	51	10	"	"	"	"	12/14/21	"	FILT, R-07
Iron	ND	20	"	"	"	"	"	"	FILT, R-07
Potassium	ND	50	"	"	"	"	"	"	FILT, R-07
Magnesium	ND	10	"	"	"	"	"	"	FILT, R-07
Sodium	800	50	"	"	"	"	"	"	FILT, R-07
Antimony	ND	0.50	ug/l	1	1120617	12/06/21	12/09/21	200.8	FILT
Arsenic	38	0.50	"	"	"	"	"	"	FILT
Barium	46	0.50	"	"	"	"	"	"	FILT
Cadmium	ND	0.50	"	"	"	"	"	"	FILT
Chromium	ND	0.50	"	"	"	"	"	"	FILT
Cobalt	ND	0.50	"	"	"	"	"	"	FILT
Lead	ND	0.50	"	"	"	"	"	"	FILT
Nickel	0.64	0.50	"	"	"	"	"	"	FILT
Selenium	0.78	0.50	"	"	"	"	"	"	FILT
Zinc	1.2	0.50	"	"	"	"	"	"	FILT

Cold Vapor Extraction EPA 7470/7471

Mercury	ND	1.0	ug/l	1	1120840	12/08/21	12/10/21	EPA 7470A Water
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Conventional Chemistry Parameters by APHA/EPA/ASTM Methods

Oil & Grease	ND	5.00	mg/l	1	1120835	12/08/21	12/13/21	EPA 1664B
Specific Conductance (EC)	3640	10.0	umhos/cm	"	1120719	12/07/21	12/07/21	SM2510b mod.
pH	8.0	0.10	pH Units	"	1120610	12/06/21	12/07/21	SM 4500-H+B O-04
Total Dissolved Solids	2100	10	mg/l	"	1120838	12/06/21	12/10/21	TDS by SM2540C

SunStar Laboratories, Inc.

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Project: Genesis Solar Groundwater
Project Number: 196-004-06
Project Manager: Arlin Brewster

Reported:
01/03/22 11:09

DUP

T213691-10 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Anions by EPA Method 300.0

Chloride	891	50.0	mg/l	10	1120323	12/03/21	12/07/21	EPA 300.0	
Sulfate as SO ₄	448	50.0	"	"	"	"	"	"	
Nitrate as NO ₃	ND	0.500	"	1	"	"	12/04/21	"	RR-01
Nitrate as N	ND	0.200	"	"	"	"	"	"	RR-01

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Northstar Environmental Remediation
26225 Enterprise Court
Lake Forest CA, 92630

Project: Genesis Solar Groundwater
Project Number: 196-004-06
Project Manager: Arlin Brewster

Reported:
01/03/22 11:09

Metals by EPA 200 Series Methods - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD RPD	RPD Limit	Notes
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Batch 1120617 - EPA 3010A

Blank (1120617-BLK1)				Prepared: 12/06/21 Analyzed: 12/09/21			
Antimony	ND	0.50	ug/l				
Arsenic	ND	0.50	"				
Barium	ND	0.50	"				
Beryllium	ND	0.50	"				
Cadmium	ND	0.50	"				
Chromium	ND	0.50	"				
Cobalt	ND	0.50	"				
Lead	ND	0.50	"				
Nickel	ND	0.50	"				
Selenium	ND	0.50	"				
Zinc	ND	0.50	"				

LCS (1120617-BS1)				Prepared: 12/06/21 Analyzed: 12/09/21			
Arsenic	52.0	0.50	ug/l	50.0	104	80-120	
Barium	52.0	0.50	"	50.0	104	80-120	
Cadmium	54.4	0.50	"	50.0	109	80-120	
Chromium	50.3	0.50	"	50.0	101	80-120	
Lead	51.9	0.50	"	50.0	104	80-120	

Matrix Spike (1120617-MS1)				Source: T213690-02 Prepared: 12/06/21 Analyzed: 12/09/21			
Arsenic	61.7	0.50	ug/l	50.0	0.130	123	75-125
Barium	163	0.50	"	50.0	107	114	75-125
Cadmium	57.5	0.50	"	50.0	ND	115	75-125
Chromium	53.3	0.50	"	50.0	0.230	106	75-125
Lead	53.6	0.50	"	50.0	ND	107	75-125

Matrix Spike Dup (1120617-MSD1)				Source: T213690-02 Prepared: 12/06/21 Analyzed: 12/09/21			
Arsenic	61.4	0.50	ug/l	50.0	0.130	123	75-125
Barium	163	0.50	"	50.0	107	113	75-125
Cadmium	55.8	0.50	"	50.0	ND	112	75-125
Chromium	51.0	0.50	"	50.0	0.230	101	75-125
Lead	52.1	0.50	"	50.0	ND	104	75-125

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Jeff Lee, Project Manager

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Northstar Environmental Remediation
26225 Enterprise Court
Lake Forest CA, 92630

Project: Genesis Solar Groundwater
Project Number: 196-004-06
Project Manager: Arlin Brewster

Reported:
01/03/22 11:09

Metals by EPA 200 Series Methods - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	RPD Limits	RPD Limit	Notes
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Batch 1120828 - EPA 3010A

Blank (1120828-BLK1)			Prepared: 12/08/21 Analyzed: 12/14/21				
Antimony	ND	0.005	mg/l				
Chromium	ND	0.005	"				
Copper	ND	0.005	"				
Lead	ND	0.005	"				
Nickel	ND	0.005	"				
Silver	ND	0.030	"				
Zinc	ND	0.030	"				
Calcium	ND	0.10	"				
Iron	ND	0.20	"				
Magnesium	ND	0.10	"				
Potassium	ND	0.50	"				
Sodium	ND	0.50	"				

LCS (1120828-BS1)			Prepared: 12/08/21 Analyzed: 12/14/21				
Chromium	0.490	0.005	mg/l	0.500	98.0	85-115	
Copper	0.513	0.005	"	0.500	103	85-115	
Lead	0.486	0.005	"	0.500	97.3	85-115	
Nickel	0.488	0.005	"	0.500	97.5	85-115	
Zinc	0.477	0.030	"	0.500	95.4	85-115	
Iron	0.488	0.20	"	0.500	97.6	85-115	
Magnesium	0.490	0.10	"	0.500	98.0	85-115	

Matrix Spike (1120828-MS1)			Source: T213675-05 Prepared: 12/08/21 Analyzed: 12/14/21				
Chromium	0.477	0.005	mg/l	0.500	0.0007	95.4	70-130
Copper	0.504	0.005	"	0.500	0.002	100	70-130
Lead	0.462	0.005	"	0.500	0.006	91.1	70-130
Nickel	0.470	0.005	"	0.500	0.001	93.8	70-130
Zinc	0.493	0.030	"	0.500	ND	98.5	70-130
Iron	0.474	0.20	"	0.500	0.013	92.1	70-130
Magnesium	23.8	0.10	"	0.500	24.0	NR	70-130

QM-05

SunStar Laboratories, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Jeff Lee, Project Manager

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25712 Commercentre Drive
Lake Forest, California 92630
949.297.5020 Phone
949.297.5027 Fax

Northstar Environmental Remediation
26225 Enterprise Court
Lake Forest CA, 92630

Project: Genesis Solar Groundwater
Project Number: 196-004-06
Project Manager: Arlin Brewster

Reported:
01/03/22 11:09

Metals by EPA 200 Series Methods - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD RPD	Limit Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	---------	-------------

Batch 1120828 - EPA 3010A

Matrix Spike Dup (1120828-MSD1)	Source: T213675-05			Prepared: 12/08/21 Analyzed: 12/14/21					
Chromium	0.480	0.005	mg/l	0.500	0.0007	95.9	70-130	0.550	30
Copper	0.508	0.005	"	0.500	0.002	101	70-130	0.791	30
Lead	0.460	0.005	"	0.500	0.006	90.9	70-130	0.288	30
Nickel	0.470	0.005	"	0.500	0.001	93.7	70-130	0.0468	30
Zinc	0.491	0.030	"	0.500	ND	98.3	70-130	0.217	30
Iron	0.477	0.20	"	0.500	0.013	92.7	70-130	0.631	30
Magnesium	23.6	0.10	"	0.500	24.0	NR	70-130	0.887	30
									QM-05

SunStar Laboratories, Inc.

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Northstar Environmental Remediation
26225 Enterprise Court
Lake Forest CA, 92630

Project: Genesis Solar Groundwater
Project Number: 196-004-06
Project Manager: Arlin Brewster

Reported:
01/03/22 11:09

Cold Vapor Extraction EPA 7470/7471 - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	---------	-----------	-------

Batch 1120840 - EPA 7470A Water

Blank (1120840-BLK1)		Prepared: 12/08/21 Analyzed: 12/10/21								
Mercury	ND	1.0	ug/l							
LCS (1120840-BS1)		Prepared: 12/08/21 Analyzed: 12/10/21								
Mercury	6.95	1.0	ug/l	7.00		99.3	80-120			
Matrix Spike (1120840-MS1)		Source: T213691-01 Prepared: 12/08/21 Analyzed: 12/10/21								
Mercury	7.24	1.0	ug/l	7.00	ND	103	75-125			
Matrix Spike Dup (1120840-MSD1)		Source: T213691-01 Prepared: 12/08/21 Analyzed: 12/10/21								
Mercury	7.35	1.0	ug/l	7.00	ND	105	75-125	1.46	20	

SunStar Laboratories, Inc.

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Jeff Lee, Project Manager

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Northstar Environmental Remediation
26225 Enterprise Court
Lake Forest CA, 92630

Project: Genesis Solar Groundwater
Project Number: 196-004-06
Project Manager: Arlin Brewster

Reported:
01/03/22 11:09

Conventional Chemistry Parameters by APHA/EPA/ASTM Methods - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	RPD Limits	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	-----------	------------	-----------	-------

Batch 1120610 - General Preparation

Duplicate (1120610-DUP1)	Source: T213691-01	Prepared: 12/06/21 Analyzed: 12/07/21
pH	8.44	0.10 pH Units

Batch 1120719 - General Preparation

Duplicate (1120719-DUP1)	Source: T213691-01	Prepared & Analyzed: 12/07/21
Specific Conductance (EC)	2660	10.0 umhos/cm

Batch 1120835 - General Preparation

Blank (1120835-BLK1)	Prepared: 12/08/21 Analyzed: 12/13/21
Oil & Grease	ND 5.00 mg/l
LCS (1120835-BS1)	Prepared: 12/08/21 Analyzed: 12/13/21
Oil & Grease	30.6 5.00 mg/l 35.4 86.4 78-114
LCS Dup (1120835-BSD1)	Prepared: 12/08/21 Analyzed: 12/13/21
Oil & Grease	29.7 5.00 mg/l 35.4 83.9 78-114 2.99 20

Batch 1120838 - General Preparation

Blank (1120838-BLK1)	Prepared: 12/08/21 Analyzed: 12/10/21
Total Dissolved Solids	ND 10 mg/l
LCS (1120838-BS1)	Prepared: 12/08/21 Analyzed: 12/10/21
Total Dissolved Solids	440 10 mg/l 500 88.0 80-120

SunStar Laboratories, Inc.

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Jeff Lee, Project Manager

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Lake Forest, California 92630
949.297.5020 Phone
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Northstar Environmental Remediation
26225 Enterprise Court
Lake Forest CA, 92630

Project: Genesis Solar Groundwater
Project Number: 196-004-06
Project Manager: Arlin Brewster

Reported:
01/03/22 11:09

Conventional Chemistry Parameters by APHA/EPA/ASTM Methods - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	Limits	RPD RPD	Limit Notes
---------	--------	-----------------	-------	-------------	---------------	-----------	--------	---------	-------------

Batch 1120838 - General Preparation

Duplicate (1120838-DUP1)	Source: T213691-01	Prepared: 12/08/21	Analyzed: 12/10/21
Total Dissolved Solids	962	10 mg/l	934 2.95 20

SunStar Laboratories, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Jeff Lee, Project Manager

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Northstar Environmental Remediation
26225 Enterprise Court
Lake Forest CA, 92630

Project: Genesis Solar Groundwater
Project Number: 196-004-06
Project Manager: Arlin Brewster

Reported:
01/03/22 11:09

Anions by EPA Method 300.0 - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	---------	-----------	-------

Batch 1120323 - General Preparation

Blank (1120323-BLK1)				Prepared & Analyzed: 12/03/21				
Fluoride	ND	0.500	mg/l					
Chloride	ND	5.00	"					
Sulfate as SO4	ND	5.00	"					
Nitrate as NO3	ND	0.500	"					
Nitrate as N	ND	0.200	"					

LCS (1120323-BS1)				Prepared & Analyzed: 12/03/21				
Fluoride	26.9	0.500	mg/l	25.0		108	75-125	
Chloride	25.3	5.00	"	25.0		101	75-125	
Sulfate as SO4	25.9	5.00	"	25.0		104	75-125	
Nitrate as NO3	25.0	0.500	"	25.0		100	75-125	

Matrix Spike (1120323-MS1)				Source: T213691-01 Prepared & Analyzed: 12/03/21				
Fluoride	31.4	0.500	mg/l	25.0	ND	125	75-125	QM-01
Chloride	476	25.0	"	25.0	490	NR	75-125	QM-01
Sulfate as SO4	416	25.0	"	25.0	419	NR	75-125	QM-01
Nitrate as NO3	24.2	0.500	"	25.0	1.02	92.9	75-125	

Matrix Spike Dup (1120323-MSD1)				Source: T213691-01 Prepared & Analyzed: 12/03/21				
Fluoride	31.4	0.500	mg/l	25.0	ND	125	75-125	0.00
Chloride	490	25.0	"	25.0	490	0.280	75-125	2.85
Sulfate as SO4	428	25.0	"	25.0	419	33.2	75-125	2.83
Nitrate as NO3	24.8	0.500	"	25.0	1.02	95.3	75-125	2.43

SunStar Laboratories, Inc.

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Jeff Lee, Project Manager

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Lake Forest, California 92630
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Northstar Environmental Remediation
26225 Enterprise Court
Lake Forest CA, 92630

Project: Genesis Solar Groundwater
Project Number: 196-004-06
Project Manager: Arlin Brewster

Reported:
01/03/22 11:09

Notes and Definitions

- RR-01 Sample was originally analyzed within EPA recommended holding time. However, subsequent re-analysis due to dilution and/or poor purge, occurred outside EPA recommended holding time.
- R-07 Reporting limit for this compound(s) has been raised to account for dilution necessary due to high levels of interfering compound(s) and/or matrix affect.
- QM-05 The spike recovery was outside acceptance limits for the MS and/or MSD due to possible matrix interference. The LCS was within acceptance criteria. The data is acceptable as no negative impact on data is expected.
- QM-01 The % recovery is outside of established control limits due to matrix interference and/or sample dilution due to matrix effect. The batch was accepted based on acceptable LCS recovery.
- O-04 This sample was received and analyzed outside the EPA recommended holding time.
- FILT The sample was filtered prior to analysis.
- DET Analyte DETECTED
- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- dry Sample results reported on a dry weight basis
- RPD Relative Percent Difference

SunStar Laboratories, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Jeff Lee, Project Manager

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SunStar Laboratories, Inc.
 25712 Commercentre Dr
 Lake Forest, CA 92630
 949-297-5020

Chain of Custody Record

Client: Northstar Environmental Remediation _____

Address: 26225 Enterprise Court, Lake Forest, CA 92630 _____

Phone: 949-274-1719 _____

Fax: _____

Project Manager: Arlin Brewster _____

949-297-5020

Date: 12/03/21

Page: 1 of 1

Project Name: Genesis Solar Groundwater

Collector: Arlin Brewster

Client Project #: 196-004-06

Batch #: T213691

EDF #: T10000006093

Sample ID	Date Sampled	Time	Sample Type	Container Type	Comments/Preservative	Total # of containers
23a	12/03/21	6:45	W	Various	X	7
OBS-1	12/03/21	7:35	W	Various	X	7
TW-1	12/03/21	7:00	W	Various	X	7
TW-2	12/03/21	12:35	W	Various	X	7
PW-0	12/03/21	13:46	W	Various	X	7
PW-2	12/03/21	13:15	W	Various	X	7
DM-1	12/03/21	15:15	W	Various	X	7
DM-2	12/03/21	16:25	W	Various	X	7
DM-3	12/03/21	17:30	W	Various	X	7
DUP	N/A	N/A	W	Various	X	7
Field Blank	N/A	N/A	W	Various		
Trip Blank	N/A	N/A	W	Various		
Relinquished by: (signature) <i>Arlin Brewster</i>	Date / Time <u>12/03/21</u> <u>14:15</u>	Received by: (signature) <i>J. M.</i>	Date / Time <u>12-3-21</u> <u>14:15</u>	Total # of containers 72	Notes 0.9°C ** Deuterium & Oxygen-18 subcontract has 10 day TAT	
Relinquished by: (signature)	Date / Time	Received by: (signature)	Date / Time	Chain of Custody seals Seals intact? Y/N <i>Y</i>		
Relinquished by: (signature)	Date / Time	Received by: (signature)	Date / Time	Received good condition/cold 0.9°C	Reporting limits must match previous reports	Turn around time: Standard **
Sample disposal Instructions:	Disposal @ \$2.00 each	Return to client	Pickup			

SAMPLE RECEIVING REVIEW SHEET

Batch/Work Order #: T213691

Client Name: Northstar Environmental Project: Genesis Solar Groundwater

Delivered by: Client SunStar Courier GLS FedEx UPS

If Courier, Received by: _____ Date/Time Courier
 Received: _____

Lab Received by: Jeff Date/Time Lab
 Received: 12/3/21 14:15

Total number of coolers received: 1 Thermometer ID: SC-1 Calibration due :8/24/22

Temperature: Cooler #1	<u>0.8</u> °C +/- the CF (+0.1 °C) = <u>0.9</u>	°C corrected temperature
Temperature: Cooler #2	°C +/- the CF (°C) =	°C corrected temperature
Temperature: Cooler #3	°C +/- the CF (°C) =	°C corrected temperature
Temperature criteria = ≤ 6°C (no frozen containers)	Within criteria?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
If NO:		<input type="checkbox"/> No → Complete Non-Conformance Sheet
Samples received on ice?	<input type="checkbox"/> Yes	<input type="checkbox"/> No → Complete Non-Conformance Sheet
If on ice, samples received same day collected?	<input type="checkbox"/> Yes → Acceptable	<input type="checkbox"/> No → Complete Non-Conformance Sheet

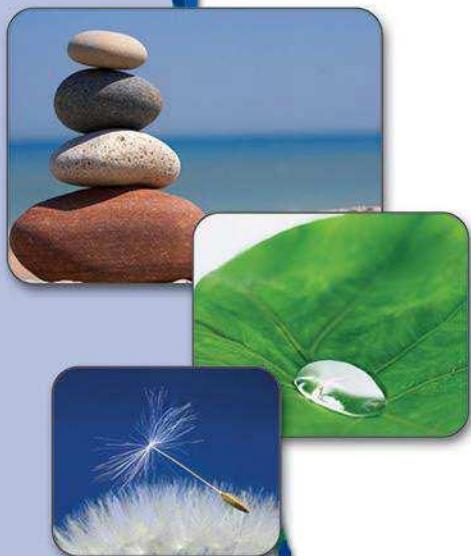
Custody seals intact on cooler/sample	<input type="checkbox"/> Yes <input type="checkbox"/> No* <input checked="" type="checkbox"/> N/A
Sample containers intact	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No*
Sample labels match Chain of Custody IDs	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No*
Total number of containers received match COC	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No*
Proper containers received for analyses requested on COC	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No*
Proper preservative indicated on COC/containers for analyses requested	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No* <input type="checkbox"/> N/A
Complete shipment received in good condition with correct temperatures, containers, labels, volumes preservatives and within method specified holding times	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No*

* Complete Non-Conformance Receiving Sheet if checked Cooler/Sample Review - Initials and date: JB 12/3/21

Comments:



Environment Testing
America



ANALYTICAL REPORT

Eurofins Calscience Irvine
2841 Dow Avenue
Tustin, CA 92780
Tel: (949)261-1022

Laboratory Job ID: 440-292420-1
Client Project/Site: T213691

For:
SunStar Laboratories Inc
25712 Commercentre Drive
Lake Forest, California 92630

Attn: Jeff Lee

Danielle Roberts

Authorized for release by:
12/20/2021 10:36:07 AM

Danielle Roberts, Senior Project Manager
(949)261-1022
Danielle.Roberts@Eurofinset.com

LINKS

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The test results in this report meet all 2003 NELAC, 2009 TNI, and 2016 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Sample Summary

Client: SunStar Laboratories Inc
Project/Site: T213691

Job ID: 440-292420-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	
440-292420-1	T213691-01	Water	12/03/21 06:45	12/06/21 15:17	1
440-292420-2	T213691-02	Water	12/03/21 09:35	12/06/21 15:17	2
440-292420-3	T213691-03	Water	12/03/21 09:00	12/06/21 15:17	3
440-292420-4	T213691-04	Water	12/02/21 12:35	12/06/21 15:17	4
440-292420-5	T213691-05	Water	12/02/21 13:46	12/06/21 15:17	5
440-292420-6	T213691-06	Water	12/02/21 13:15	12/06/21 15:17	6
440-292420-7	T213691-07	Water	12/02/21 15:15	12/06/21 15:17	7
440-292420-8	T213691-08	Water	12/02/21 16:25	12/06/21 15:17	8
440-292420-9	T213691-09	Water	12/02/21 17:50	12/06/21 15:17	9
440-292420-10	T213691-10	Water	12/02/21 00:01	12/06/21 15:17	10
					11
					12
					13
					14
					15

Case Narrative

Client: SunStar Laboratories Inc
Project/Site: T213691

Job ID: 440-292420-1

Job ID: 440-292420-1

Laboratory: Eurofins Calscience Irvine

Narrative

**Job Narrative
440-292420-1**

Comments

No additional comments.

Receipt

The samples were received on 12/6/2021 3:17 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 8.6° C.

Receipt Exceptions

The following samples were received at the laboratory outside the required temperature criteria: T213691-01 (440-292420-1), T213691-02 (440-292420-2), T213691-03 (440-292420-3), T213691-04 (440-292420-4), T213691-05 (440-292420-5), T213691-06 (440-292420-6), T213691-07 (440-292420-7), T213691-08 (440-292420-8), T213691-09 (440-292420-9) and T213691-10 (440-292420-10). The samples were received with blue ice at 8.60/8.60 Deg C.

GC Semi VOA

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Organic Prep

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Detection Summary

Client: SunStar Laboratories Inc
Project/Site: T213691

Job ID: 440-292420-1

Client Sample ID: T213691-01

Lab Sample ID: 440-292420-1

No Detections.

Client Sample ID: T213691-02

Lab Sample ID: 440-292420-2

No Detections.

Client Sample ID: T213691-03

Lab Sample ID: 440-292420-3

No Detections.

Client Sample ID: T213691-04

Lab Sample ID: 440-292420-4

No Detections.

Client Sample ID: T213691-05

Lab Sample ID: 440-292420-5

No Detections.

Client Sample ID: T213691-06

Lab Sample ID: 440-292420-6

No Detections.

Client Sample ID: T213691-07

Lab Sample ID: 440-292420-7

No Detections.

Client Sample ID: T213691-08

Lab Sample ID: 440-292420-8

No Detections.

Client Sample ID: T213691-09

Lab Sample ID: 440-292420-9

No Detections.

Client Sample ID: T213691-10

Lab Sample ID: 440-292420-10

No Detections.

This Detection Summary does not include radiochemical test results.

Eurofins Calscience Irvine

Client Sample Results

Client: SunStar Laboratories Inc
Project/Site: T213691

Job ID: 440-292420-1

Client Sample ID: T213691-01
Date Collected: 12/03/21 06:45
Date Received: 12/06/21 15:17

Lab Sample ID: 440-292420-1
Matrix: Water

Method: 8015B - 8100M (Modified) Total Extractable Petroleum Hydrocarbons

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene, 1,1'-oxybis-	ND		96	30	ug/L		12/09/21 16:53	12/16/21 12:48	1
1,1'-Biphenyl	ND		96	26	ug/L		12/09/21 16:53	12/16/21 12:48	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>n</i> -Octacosane (Surr)	80		53 - 151				12/09/21 16:53	12/16/21 12:48	1

Client Sample ID: T213691-02
Date Collected: 12/03/21 09:35
Date Received: 12/06/21 15:17

Lab Sample ID: 440-292420-2
Matrix: Water

Method: 8015B - 8100M (Modified) Total Extractable Petroleum Hydrocarbons

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene, 1,1'-oxybis-	ND		100	32	ug/L		12/09/21 16:53	12/16/21 13:16	1
1,1'-Biphenyl	ND		100	27	ug/L		12/09/21 16:53	12/16/21 13:16	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>n</i> -Octacosane (Surr)	83		53 - 151				12/09/21 16:53	12/16/21 13:16	1

Client Sample ID: T213691-03
Date Collected: 12/03/21 09:00
Date Received: 12/06/21 15:17

Lab Sample ID: 440-292420-3
Matrix: Water

Method: 8015B - 8100M (Modified) Total Extractable Petroleum Hydrocarbons

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene, 1,1'-oxybis-	ND		97	31	ug/L		12/09/21 16:53	12/16/21 13:43	1
1,1'-Biphenyl	ND		97	26	ug/L		12/09/21 16:53	12/16/21 13:43	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>n</i> -Octacosane (Surr)	84		53 - 151				12/09/21 16:53	12/16/21 13:43	1

Client Sample ID: T213691-04
Date Collected: 12/02/21 12:35
Date Received: 12/06/21 15:17

Lab Sample ID: 440-292420-4
Matrix: Water

Method: 8015B - 8100M (Modified) Total Extractable Petroleum Hydrocarbons

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene, 1,1'-oxybis-	ND		99	31	ug/L		12/09/21 16:53	12/16/21 14:10	1
1,1'-Biphenyl	ND		99	27	ug/L		12/09/21 16:53	12/16/21 14:10	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>n</i> -Octacosane (Surr)	77		53 - 151				12/09/21 16:53	12/16/21 14:10	1

Client Sample ID: T213691-05
Date Collected: 12/02/21 13:46
Date Received: 12/06/21 15:17

Lab Sample ID: 440-292420-5
Matrix: Water

Method: 8015B - 8100M (Modified) Total Extractable Petroleum Hydrocarbons

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene, 1,1'-oxybis-	ND		100	32	ug/L		12/09/21 16:53	12/16/21 14:36	1
1,1'-Biphenyl	ND		100	27	ug/L		12/09/21 16:53	12/16/21 14:36	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>n</i> -Octacosane (Surr)	78		53 - 151				12/09/21 16:53	12/16/21 14:36	1

Eurofins Calscience Irvine

Client Sample Results

Client: SunStar Laboratories Inc
Project/Site: T213691

Job ID: 440-292420-1

Client Sample ID: T213691-06

Date Collected: 12/02/21 13:15
Date Received: 12/06/21 15:17

Lab Sample ID: 440-292420-6

Matrix: Water

Method: 8015B - 8100M (Modified) Total Extractable Petroleum Hydrocarbons

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene, 1,1'-oxybis-	ND		100	31	ug/L		12/09/21 16:53	12/16/21 15:04	1
1,1'-Biphenyl	ND		100	27	ug/L		12/09/21 16:53	12/16/21 15:04	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>n</i> -Octacosane (Surr)	74		53 - 151				12/09/21 16:53	12/16/21 15:04	1

Client Sample ID: T213691-07

Date Collected: 12/02/21 15:15
Date Received: 12/06/21 15:17

Lab Sample ID: 440-292420-7

Matrix: Water

Method: 8015B - 8100M (Modified) Total Extractable Petroleum Hydrocarbons

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene, 1,1'-oxybis-	ND		99	31	ug/L		12/09/21 16:53	12/16/21 15:30	1
1,1'-Biphenyl	ND		99	27	ug/L		12/09/21 16:53	12/16/21 15:30	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>n</i> -Octacosane (Surr)	78		53 - 151				12/09/21 16:53	12/16/21 15:30	1

Client Sample ID: T213691-08

Date Collected: 12/02/21 16:25
Date Received: 12/06/21 15:17

Lab Sample ID: 440-292420-8

Matrix: Water

Method: 8015B - 8100M (Modified) Total Extractable Petroleum Hydrocarbons

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene, 1,1'-oxybis-	ND		95	30	ug/L		12/09/21 16:53	12/16/21 15:57	1
1,1'-Biphenyl	ND		95	26	ug/L		12/09/21 16:53	12/16/21 15:57	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>n</i> -Octacosane (Surr)	74		53 - 151				12/09/21 16:53	12/16/21 15:57	1

Client Sample ID: T213691-09

Date Collected: 12/02/21 17:50
Date Received: 12/06/21 15:17

Lab Sample ID: 440-292420-9

Matrix: Water

Method: 8015B - 8100M (Modified) Total Extractable Petroleum Hydrocarbons

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene, 1,1'-oxybis-	ND		94	30	ug/L		12/09/21 16:53	12/16/21 16:24	1
1,1'-Biphenyl	ND		94	26	ug/L		12/09/21 16:53	12/16/21 16:24	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>n</i> -Octacosane (Surr)	70		53 - 151				12/09/21 16:53	12/16/21 16:24	1

Client Sample ID: T213691-10

Date Collected: 12/02/21 00:01
Date Received: 12/06/21 15:17

Lab Sample ID: 440-292420-10

Matrix: Water

Method: 8015B - 8100M (Modified) Total Extractable Petroleum Hydrocarbons

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene, 1,1'-oxybis-	ND		98	31	ug/L		12/09/21 16:53	12/16/21 16:51	1
1,1'-Biphenyl	ND		98	27	ug/L		12/09/21 16:53	12/16/21 16:51	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>n</i> -Octacosane (Surr)	68		53 - 151				12/09/21 16:53	12/16/21 16:51	1

Eurofins Calscience Irvine

Surrogate Summary

Client: SunStar Laboratories Inc
Project/Site: T213691

Job ID: 440-292420-1

Method: 8015B - 8100M (Modified) Total Extractable Petroleum Hydrocarbons

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	OTCSN1 (53-151)	Percent Surrogate Recovery (Acceptance Limits)									
			80	83	84	77	78	74	78	74	70	68
440-292420-1	T213691-01	80										
440-292420-2	T213691-02	83										
440-292420-3	T213691-03	84										
440-292420-4	T213691-04	77										
440-292420-5	T213691-05	78										
440-292420-6	T213691-06	74										
440-292420-7	T213691-07	78										
440-292420-8	T213691-08	74										
440-292420-9	T213691-09	70										
440-292420-10	T213691-10	68										
LCS 570-199934/2-A	Lab Control Sample	75										
LCSD 570-199934/3-A	Lab Control Sample Dup	77										
MB 570-199934/1-A	Method Blank	71										

Surrogate Legend

OTCSN = n-Octacosane (Surr)

Method Summary

Client: SunStar Laboratories Inc
Project/Site: T213691

Job ID: 440-292420-1

Method	Method Description	Protocol	Laboratory
8015B	8100M (Modified) Total Extractable Petroleum Hydrocarbons	SW846	ECL 1
3510C	Liquid-Liquid Extraction (Separatory Funnel)	SW846	ECL 1

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

ECL 1 = Eurofins Calscience LLC Lincoln, 7440 Lincoln Way, Garden Grove, CA 92841, TEL (714)895-5494

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Lab Chronicle

Client: SunStar Laboratories Inc
Project/Site: T213691

Job ID: 440-292420-1

Client Sample ID: T213691-01
Date Collected: 12/03/21 06:45
Date Received: 12/06/21 15:17

Lab Sample ID: 440-292420-1
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			260.2 mL	2.5 mL	199934	12/09/21 16:53	UFLU	ECL 1
Total/NA	Analysis	8015B		1			201522	12/16/21 12:48	N5Y3	ECL 1

Client Sample ID: T213691-02
Date Collected: 12/03/21 09:35
Date Received: 12/06/21 15:17

Lab Sample ID: 440-292420-2
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			250.3 mL	2.5 mL	199934	12/09/21 16:53	UFLU	ECL 1
Total/NA	Analysis	8015B		1			201522	12/16/21 13:16	N5Y3	ECL 1

Client Sample ID: T213691-03
Date Collected: 12/03/21 09:00
Date Received: 12/06/21 15:17

Lab Sample ID: 440-292420-3
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			258.4 mL	2.5 mL	199934	12/09/21 16:53	UFLU	ECL 1
Total/NA	Analysis	8015B		1			201522	12/16/21 13:43	N5Y3	ECL 1

Client Sample ID: T213691-04
Date Collected: 12/02/21 12:35
Date Received: 12/06/21 15:17

Lab Sample ID: 440-292420-4
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			252.3 mL	2.5 mL	199934	12/09/21 16:53	UFLU	ECL 1
Total/NA	Analysis	8015B		1			201522	12/16/21 14:10	N5Y3	ECL 1

Client Sample ID: T213691-05
Date Collected: 12/02/21 13:46
Date Received: 12/06/21 15:17

Lab Sample ID: 440-292420-5
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			250 mL	2.5 mL	199934	12/09/21 16:53	UFLU	ECL 1
Total/NA	Analysis	8015B		1			201522	12/16/21 14:36	N5Y3	ECL 1

Client Sample ID: T213691-06
Date Collected: 12/02/21 13:15
Date Received: 12/06/21 15:17

Lab Sample ID: 440-292420-6
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			250.4 mL	2.5 mL	199934	12/09/21 16:53	UFLU	ECL 1
Total/NA	Analysis	8015B		1			201522	12/16/21 15:04	N5Y3	ECL 1

Lab Chronicle

Client: SunStar Laboratories Inc
Project/Site: T213691

Job ID: 440-292420-1

Client Sample ID: T213691-07

Date Collected: 12/02/21 15:15

Date Received: 12/06/21 15:17

Lab Sample ID: 440-292420-7

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			253 mL	2.5 mL	199934	12/09/21 16:53	UFLU	ECL 1
Total/NA	Analysis	8015B		1			201522	12/16/21 15:30	N5Y3	ECL 1

Client Sample ID: T213691-08

Date Collected: 12/02/21 16:25

Date Received: 12/06/21 15:17

Lab Sample ID: 440-292420-8

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			264.1 mL	2.5 mL	199934	12/09/21 16:53	UFLU	ECL 1
Total/NA	Analysis	8015B		1			201522	12/16/21 15:57	N5Y3	ECL 1

Client Sample ID: T213691-09

Date Collected: 12/02/21 17:50

Date Received: 12/06/21 15:17

Lab Sample ID: 440-292420-9

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			266.5 mL	2.5 mL	199934	12/09/21 16:53	UFLU	ECL 1
Total/NA	Analysis	8015B		1			201522	12/16/21 16:24	N5Y3	ECL 1

Client Sample ID: T213691-10

Date Collected: 12/02/21 00:01

Date Received: 12/06/21 15:17

Lab Sample ID: 440-292420-10

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			254.7 mL	2.5 mL	199934	12/09/21 16:53	UFLU	ECL 1
Total/NA	Analysis	8015B		1			201522	12/16/21 16:51	N5Y3	ECL 1

Laboratory References:

ECL 1 = Eurofins Calscience LLC Lincoln, 7440 Lincoln Way, Garden Grove, CA 92841, TEL (714)895-5494

QC Sample Results

Client: SunStar Laboratories Inc
Project/Site: T213691

Job ID: 440-292420-1

Method: 8015B - 8100M (Modified) Total Extractable Petroleum Hydrocarbons

Lab Sample ID: MB 570-199934/1-A

Matrix: Water

Analysis Batch: 201522

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 199934

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene, 1,1'-oxybis-	ND		100	32	ug/L				1
1,1'-Biphenyl	ND		100	27	ug/L				1
Surrogate	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>n</i> -Octacosane (Surr)	71		53 - 151				12/09/21 16:53	12/16/21 10:34	1

Lab Sample ID: LCS 570-199934/2-A

Matrix: Water

Analysis Batch: 201522

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 199934

Analyte		Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec.	
Benzene, 1,1'-oxybis-		1000	751		ug/L		75	57 - 120	
1,1'-Biphenyl		1000	787		ug/L		79	45 - 120	
Surrogate	LCS %Recovery	LCS Qualifier	Limits						
<i>n</i> -Octacosane (Surr)	75		53 - 151						

Lab Sample ID: LCSD 570-199934/3-A

Matrix: Water

Analysis Batch: 201522

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 199934

Analyte		Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec.	RPD
Benzene, 1,1'-oxybis-		1000	765		ug/L		77	57 - 120	2
1,1'-Biphenyl		1000	803		ug/L		80	45 - 120	2
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits						
<i>n</i> -Octacosane (Surr)	77		53 - 151						

QC Association Summary

Client: SunStar Laboratories Inc
Project/Site: T213691

Job ID: 440-292420-1

GC Semi VOA

Prep Batch: 199934

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-292420-1	T213691-01	Total/NA	Water	3510C	1
440-292420-2	T213691-02	Total/NA	Water	3510C	2
440-292420-3	T213691-03	Total/NA	Water	3510C	3
440-292420-4	T213691-04	Total/NA	Water	3510C	4
440-292420-5	T213691-05	Total/NA	Water	3510C	5
440-292420-6	T213691-06	Total/NA	Water	3510C	6
440-292420-7	T213691-07	Total/NA	Water	3510C	7
440-292420-8	T213691-08	Total/NA	Water	3510C	8
440-292420-9	T213691-09	Total/NA	Water	3510C	9
440-292420-10	T213691-10	Total/NA	Water	3510C	10
MB 570-199934/1-A	Method Blank	Total/NA	Water	3510C	11
LCS 570-199934/2-A	Lab Control Sample	Total/NA	Water	3510C	12
LCSD 570-199934/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	13

Analysis Batch: 201522

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-292420-1	T213691-01	Total/NA	Water	8015B	199934
440-292420-2	T213691-02	Total/NA	Water	8015B	199934
440-292420-3	T213691-03	Total/NA	Water	8015B	199934
440-292420-4	T213691-04	Total/NA	Water	8015B	199934
440-292420-5	T213691-05	Total/NA	Water	8015B	199934
440-292420-6	T213691-06	Total/NA	Water	8015B	199934
440-292420-7	T213691-07	Total/NA	Water	8015B	199934
440-292420-8	T213691-08	Total/NA	Water	8015B	199934
440-292420-9	T213691-09	Total/NA	Water	8015B	199934
440-292420-10	T213691-10	Total/NA	Water	8015B	199934
MB 570-199934/1-A	Method Blank	Total/NA	Water	8015B	199934
LCS 570-199934/2-A	Lab Control Sample	Total/NA	Water	8015B	199934
LCSD 570-199934/3-A	Lab Control Sample Dup	Total/NA	Water	8015B	199934

Definitions/Glossary

Client: SunStar Laboratories Inc
Project/Site: T213691

Job ID: 440-292420-1

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.	1
□	Listed under the "D" column to designate that the result is reported on a dry weight basis	2
%R	Percent Recovery	3
CFL	Contains Free Liquid	4
CFU	Colony Forming Unit	5
CNF	Contains No Free Liquid	6
DER	Duplicate Error Ratio (normalized absolute difference)	7
Dil Fac	Dilution Factor	8
DL	Detection Limit (DoD/DOE)	9
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample	10
DLC	Decision Level Concentration (Radiochemistry)	11
EDL	Estimated Detection Limit (Dioxin)	12
LOD	Limit of Detection (DoD/DOE)	13
LOQ	Limit of Quantitation (DoD/DOE)	14
MCL	EPA recommended "Maximum Contaminant Level"	15
MDA	Minimum Detectable Activity (Radiochemistry)	
MDC	Minimum Detectable Concentration (Radiochemistry)	
MDL	Method Detection Limit	
ML	Minimum Level (Dioxin)	
MPN	Most Probable Number	
MQL	Method Quantitation Limit	
NC	Not Calculated	
ND	Not Detected at the reporting limit (or MDL or EDL if shown)	
NEG	Negative / Absent	
POS	Positive / Present	
PQL	Practical Quantitation Limit	
PRES	Presumptive	
QC	Quality Control	
RER	Relative Error Ratio (Radiochemistry)	
RL	Reporting Limit or Requested Limit (Radiochemistry)	
RPD	Relative Percent Difference, a measure of the relative difference between two points	
TEF	Toxicity Equivalent Factor (Dioxin)	
TEQ	Toxicity Equivalent Quotient (Dioxin)	
TNTC	Too Numerous To Count	

Accreditation/Certification Summary

Client: SunStar Laboratories Inc
Project/Site: T213691

Job ID: 440-292420-1

Laboratory: Eurofins Calscience LLC

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
California	Los Angeles County Sanitation Districts	10109	09-30-22
California	SCAQMD LAP	17LA0919	11-30-21 *
California	State	2944	09-30-22
Guam	State	21-003R	06-22-22
Nevada	State	CA00111	07-31-22
Oregon	NELAP	CA300001	01-30-22
USDA	US Federal Programs	P330-20-00034	02-10-23
Washington	State	C916-18	10-12-22

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

SUBCONTRACT ORDER

SunStar Laboratories, Inc.

T213691

292420

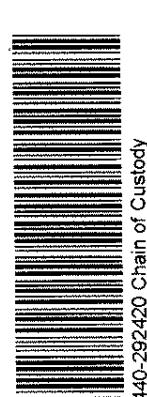
SENDING LABORATORY.

SunStar Laboratories, Inc
 25712 Commercentre Drive
 Lake Forest, CA 92630
 Phone (949) 297-5020
 Fax. (949) 297-5027
 Project Manager Jeff Lee

RECEIVING LABORATORY.

Eurofins TestAmerica (Irvine) Laboratories
 17461 Derian Ave, #100
 Irvine, CA 92614
 Phone (949) 261-1022
 Fax. N/A

Analysis	Due	Expires	Laboratory ID	Comments
Sample ID: T213691-01	Water	Sampled 12/03/21 06:45	[REDACTED]	
Misc Water Testing #1 <i>Containers Supplied.</i>	12/17/21 00:00	06/01/22 06:45		8015M- Therminol
Sample ID: T213691-02	Water	Sampled:12/03/21 09:35	[REDACTED]	
Misc Water Testing #1 <i>Containers Supplied.</i>	12/17/21 00:00	06/01/22 09:35		8015M Therminol
Sample ID: T213691-03	Water	Sampled.12/03/21 09:00	[REDACTED]	
Misc Water Testing #1 <i>Containers Supplied.</i>	12/17/21 00:00	06/01/22 09:00		8015M- Therminol
Sample ID: T213691-04	Water	Sampled.12/02/21 12:35	[REDACTED]	
Misc Water Testing #1 <i>Containers Supplied.</i>	12/17/21 00:00	05/31/22 12:35		8015M- Therminol
Sample ID: T213691-05	Water	Sampled.12/02/21 13:46	[REDACTED]	
Misc Water Testing #1 <i>Containers Supplied.</i>	12/17/21 00:00	05/31/22 13:46		8015M- Therminol
Sample ID: T213691-06	Water	Sampled 12/02/21 13:15	[REDACTED]	
Misc Water Testing #1 <i>Containers Supplied.</i>	12/17/21 00:00	05/31/22 13:15		8015M- Therminol



Released By

12-6-21
Date

Received By

Jen
ECR
Date

Released By

Date

Received By

Date

Page 16 of 20^n blue ice

86/84
1k-85Page 1 of 4
12/20/2021

SUBCONTRACT ORDER

SunStar Laboratories, Inc.

T213691

Analysis	Due	Expires	Laboratory ID	Comments
Sample ID: T213691-07	Water	Sampled 12/02/21 15:15	[REDACTED]	
Misc Water Testing #1 <i>Containers Supplied.</i>	12/17/21 00:00	05/31/22 15:15		8015M- Therminol
Sample ID: T213691-08	Water	Sampled 12/02/21 16:25	[REDACTED]	
Misc Water Testing #1 <i>Containers Supplied.</i>	12/17/21 00:00	05/31/22 16:25		8015M- Therminol
Sample ID: T213691-09	Water	Sampled 12/02/21 17:50	[REDACTED]	
Misc Water Testing #1 <i>Containers Supplied.</i>	12/17/21 00:00	05/31/22 17:50		8015M Therminol
Sample ID: T213691-10	Water	Sampled 12/02/21 00:00	[REDACTED]	
Misc Water Testing #1 <i>Containers Supplied.</i>	12/17/21 00:00	05/31/22 00:00		8015M- Therminol

D. Benz

12-6-21

Date

1517

Received By

DCLPV

Date

12/4/21

1517

Released By

Date

Received By

Date

Eurofins Calscience Irvine

17461 Delian Ave Suite 100

Irvine, CA 92614-5817

Phone: 949-261-1022 Fax 949-260-3297

Chain of Custody Record



Environment Testing

America

Client Information (Sub Contract Lab)

Client Contact	Sampler	Lab P#: Roberts, Danielle C	Carrier Tracking No:	COC No# 440-176368 1
Shipping/Receiving	Phone:	E-Mail: Danielle Roberts@Eurofinscal.com	Site of Origin	Page: Page 1 of 2
Company	Accreditations Required (See notes): State Program - California			Job #: 440-292420-1
Address:	Due Date Requested: 12/17/2021			Preservation Codes:
7440 Lincoln Way, ,	TAT Requested (days):			
City: Garden Grove				
State, Zip: CA, 92841				
Phone: 714-895-5494 (Tel) 714-894-7501 (Fax)	PO #:			
Email:	WQ #:			
Project Name: T213692	Project #: 44014499			
Site:	SSOW#:			
8015B-DRO/3510C Thermal Perform MS/MSD (yes or No)				
Field Filtered Sample (yes or No)				
Special Instructions/Note:				
Total Number of Containers				
Analysis Requested				
Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (water, soil, oil, overcast, BFR, tissue, Aqueous)
T213691-01 (440-292420-1)	12/3/21	06:45	Pacific	Water X
T213691-02 (440-292420-2)	12/3/21	09:35	Pacific	Water X
T213691-03 (440-292420-3)	12/3/21	09:00	Pacific	Water X
T213691-04 (440-292420-4)	12/2/21	12:35	Pacific	Water X
T213691-05 (440-292420-5)	12/2/21	13:46	Pacific	Water X
T213691-06 (440-292420-6)	12/2/21	13:15	Pacific	Water X
T213691-07 (440-292420-7)	12/2/21	15:15	Pacific	Water X
T213691-08 (440-292420-8)	12/2/21	16:25	Pacific	Water X
T213691-09 (440-292420-9)	12/2/21	17:50	Pacific	Water X

Note: Since laboratory accreditations are subject to change, Eurofins Calscience places the ownership of method analytic & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/test matrix being analyzed the samples must be shipped back to the Eurofins Calscience laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Calscience attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Calscience.

Possible Hazard Identification

Unconfirmed	<input type="checkbox"/> Relinquished by <u>J. Incales</u>	Primary Deliverable Rank: 2	<input type="checkbox"/> Disposal To Client	Method of Shipment:
Deliverable Requested I, II, III, IV, Other (specify)	Date/Time: 12/6/21 10:55	Date/Time: Received by <u>EC</u>	Date/Time: Received by <u>EC</u>	Date/Time: Received by <u>EC</u>
Relinquished by <u>J. Incales</u>	Date/Time: 12/6/21 10:55	Date/Time: Received by <u>EC</u>	Date/Time: Received by <u>EC</u>	Date/Time: Received by <u>EC</u>
Relinquished by <u>J. Incales</u>	Date/Time: 12/6/21 10:55	Date/Time: Received by <u>EC</u>	Date/Time: Received by <u>EC</u>	Date/Time: Received by <u>EC</u>
Custody Seals Intact: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Cooler Temperature(s): °C and Other Remarks: 7.6 / 3.5 hours			

Ver 06/08/2021

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15

Login Sample Receipt Checklist

Client: SunStar Laboratories Inc

Job Number: 440-292420-1

Login Number: 292420

List Source: Eurofins Calscience Irvine

List Number: 1

Creator: Escalante, Maria I

Question	Answer	Comment	
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True		1
The cooler's custody seal, if present, is intact.	N/A	Not present	2
Sample custody seals, if present, are intact.	N/A	Not Present	3
The cooler or samples do not appear to have been compromised or tampered with.	True		4
Samples were received on ice.	True		5
Cooler Temperature is acceptable.	False	Cooler temperature outside required temperature criteria.	6
Cooler Temperature is recorded.	True		7
COC is present.	True		8
COC is filled out in ink and legible.	True		9
COC is filled out with all pertinent information.	True		10
Is the Field Sampler's name present on COC?	N/A	Received project as a subcontract.	11
There are no discrepancies between the containers received and the COC.	True		12
Samples are received within Holding Time (excluding tests with immediate HTs)	True		13
Sample containers have legible labels.	True		14
Containers are not broken or leaking.	True		15
Sample collection date/times are provided.	True		
Appropriate sample containers are used.	True		
Sample bottles are completely filled.	True		
Sample Preservation Verified.	N/A		
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True		
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True		
Multiphasic samples are not present.	True		
Samples do not require splitting or compositing.	True		
Residual Chlorine Checked.	N/A		

Login Sample Receipt Checklist

Client: SunStar Laboratories Inc

Job Number: 440-292420-1

Login Number: 292420

List Number: 2

Creator: Ortiz-Luis, Michael

List Source: Eurofins Calscience LLC

List Creation: 12/07/21 02:34 PM

Question

Answer

Comment

Radioactivity wasn't checked or is </= background as measured by a survey meter.

N/A

The cooler's custody seal, if present, is intact.

N/A

Sample custody seals, if present, are intact.

N/A

The cooler or samples do not appear to have been compromised or tampered with.

True

Samples were received on ice.

True

Cooler Temperature is acceptable.

True

Cooler Temperature is recorded.

True 3.5

COC is present.

True

COC is filled out in ink and legible.

True

COC is filled out with all pertinent information.

True

Is the Field Sampler's name present on COC?

False

Received project as a subcontract.

There are no discrepancies between the containers received and the COC.

True

Samples are received within Holding Time (excluding tests with immediate HTs)

True

Sample containers have legible labels.

True

Containers are not broken or leaking.

True

Sample collection date/times are provided.

True

Appropriate sample containers are used.

True

Sample bottles are completely filled.

True

Sample Preservation Verified.

True

There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs

True

Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").

True

Multiphasic samples are not present.

True

Samples do not require splitting or compositing.

True

Residual Chlorine Checked.

N/A



Lab #: 810643 Job #: 49539 IS-101168 Co. Job#:
Sample Name: T231691-01 Co. Lab#:
Company: SunStar Laboratories, Inc
API/Well:
Container: 250ml Plastic Bottle
Field/Site Name: T213691
Location:
Formation/Depth:
Sampling Point:
Date Sampled: 12/03/2021 6:45 Date Received: 12/07/2021 Date Reported: 12/21/2021

δD of water ----- -74.1 ‰ relative to VSMOW
 $\delta^{18}O$ of water ----- -10.21 ‰ relative to VSMOW
Tritium content of water ----- na
 $\delta^{13}C$ of DIC ----- na
 $\delta^{14}C$ content of DIC ----- na
 $\delta^{15}N$ of nitrate ----- na
 $\delta^{18}O$ of nitrate ----- na
 $\delta^{34}S$ of sulfate ----- na
 $\delta^{18}O$ of sulfate ----- na
Vacuum Distilled? * ----- No

Remarks:

nd = not detected. na = not analyzed.

*Indicates if vacuum distillation was utilized for hydrogen and oxygen isotopic analysis of water



Lab #: 810644 Job #: 49539 IS-101168 Co. Job#:
Sample Name: T231691-02 Co. Lab#:
Company: SunStar Laboratories, Inc
API/Well:
Container: 250ml Plastic Bottle
Field/Site Name: T213691
Location:
Formation/Depth:
Sampling Point:
Date Sampled: 12/03/2021 9:35 Date Received: 12/07/2021 Date Reported: 12/21/2021

δ D of water ----- -60.1 ‰ relative to VSMOW
 δ ¹⁸O of water ----- -6.77 ‰ relative to VSMOW
Tritium content of water ----- na
 δ ¹³C of DIC ----- na
¹⁴C content of DIC ----- na
 δ ¹⁵N of nitrate ----- na
 δ ¹⁸O of nitrate ----- na
 δ ³⁴S of sulfate ----- na
 δ ¹⁸O of sulfate ----- na
Vacuum Distilled? * ----- No

Remarks:

nd = not detected. na = not analyzed.

*Indicates if vacuum distillation was utilized for hydrogen and oxygen isotopic analysis of water



Lab #: 810645 Job #: 49539 IS-101168 Co. Job#:
Sample Name: T231691-03 Co. Lab#:
Company: SunStar Laboratories, Inc
API/Well:
Container: 250ml Plastic Bottle
Field/Site Name: T213691
Location:
Formation/Depth:
Sampling Point:
Date Sampled: 12/03/2021 9:00 Date Received: 12/07/2021 Date Reported: 12/21/2021

δ D of water ----- -63.2 ‰ relative to VSMOW
 δ ¹⁸O of water ----- -7.76 ‰ relative to VSMOW
Tritium content of water ----- na
 δ ¹³C of DIC ----- na
¹⁴C content of DIC ----- na
 δ ¹⁵N of nitrate ----- na
 δ ¹⁸O of nitrate ----- na
 δ ³⁴S of sulfate ----- na
 δ ¹⁸O of sulfate ----- na
Vacuum Distilled? * ----- No

Remarks:

nd = not detected. na = not analyzed.

*Indicates if vacuum distillation was utilized for hydrogen and oxygen isotopic analysis of water



Lab #: 810646 Job #: 49539 IS-101168 Co. Job#:
Sample Name: T231691-04 Co. Lab#:
Company: SunStar Laboratories, Inc
API/Well:
Container: 250ml Plastic Bottle
Field/Site Name: T213691
Location:
Formation/Depth:
Sampling Point:
Date Sampled: 12/02/2021 12:35 Date Received: 12/07/2021 Date Reported: 12/21/2021

δD of water ----- -75.5 ‰ relative to VSMOW
 $\delta^{18}O$ of water ----- -10.01 ‰ relative to VSMOW
Tritium content of water ----- na
 $\delta^{13}C$ of DIC ----- na
 $\delta^{14}C$ content of DIC ----- na
 $\delta^{15}N$ of nitrate ----- na
 $\delta^{18}O$ of nitrate ----- na
 $\delta^{34}S$ of sulfate ----- na
 $\delta^{18}O$ of sulfate ----- na
Vacuum Distilled? * ----- No

Remarks:

nd = not detected. na = not analyzed.

*Indicates if vacuum distillation was utilized for hydrogen and oxygen isotopic analysis of water



Lab #: 810647 Job #: 49539 IS-101168 Co. Job#:
Sample Name: T231691-05 Co. Lab#:
Company: SunStar Laboratories, Inc
API/Well:
Container: 250ml Plastic Bottle
Field/Site Name: T213691
Location:
Formation/Depth:
Sampling Point:
Date Sampled: 12/02/2021 13:46 Date Received: 12/07/2021 Date Reported: 12/21/2021

δD of water ----- -76.2 ‰ relative to VSMOW
 $\delta^{18}O$ of water ----- -10.03 ‰ relative to VSMOW
Tritium content of water ----- na
 $\delta^{13}C$ of DIC ----- na
 $\delta^{14}C$ content of DIC ----- na
 $\delta^{15}N$ of nitrate ----- na
 $\delta^{18}O$ of nitrate ----- na
 $\delta^{34}S$ of sulfate ----- na
 $\delta^{18}O$ of sulfate ----- na
Vacuum Distilled? * ----- No

Remarks:

nd = not detected. na = not analyzed.

*Indicates if vacuum distillation was utilized for hydrogen and oxygen isotopic analysis of water



Lab #: 810648 Job #: 49539 IS-101168 Co. Job#:
Sample Name: T231691-06 Co. Lab#:
Company: SunStar Laboratories, Inc
API/Well:
Container: 250ml Plastic Bottle
Field/Site Name: T213691
Location:
Formation/Depth:
Sampling Point:
Date Sampled: 12/02/2021 13:15 Date Received: 12/07/2021 Date Reported: 12/21/2021

δ D of water ----- -77.6 ‰ relative to VSMOW
 δ ¹⁸O of water ----- -10.22 ‰ relative to VSMOW
Tritium content of water ----- na
 δ ¹³C of DIC ----- na
¹⁴C content of DIC ----- na
 δ ¹⁵N of nitrate ----- na
 δ ¹⁸O of nitrate ----- na
 δ ³⁴S of sulfate ----- na
 δ ¹⁸O of sulfate ----- na
Vacuum Distilled? * ----- No

Remarks:

nd = not detected. na = not analyzed.

*Indicates if vacuum distillation was utilized for hydrogen and oxygen isotopic analysis of water



Lab #: 810649 Job #: 49539 IS-101168 Co. Job#:
Sample Name: T231691-07 Co. Lab#:
Company: SunStar Laboratories, Inc
API/Well:
Container: 250ml Plastic Bottle
Field/Site Name: T213691
Location:
Formation/Depth:
Sampling Point:
Date Sampled: 12/02/2021 15:15 Date Received: 12/07/2021 Date Reported: 12/21/2021

δ D of water ----- -70.1 ‰ relative to VSMOW
 δ ¹⁸O of water ----- -8.58 ‰ relative to VSMOW
Tritium content of water ----- na
 δ ¹³C of DIC ----- na
¹⁴C content of DIC ----- na
 δ ¹⁵N of nitrate ----- na
 δ ¹⁸O of nitrate ----- na
 δ ³⁴S of sulfate ----- na
 δ ¹⁸O of sulfate ----- na
Vacuum Distilled? * ----- No

Remarks:

nd = not detected. na = not analyzed.

*Indicates if vacuum distillation was utilized for hydrogen and oxygen isotopic analysis of water



Lab #: 810650 Job #: 49539 IS-101168 Co. Job#:
Sample Name: T231691-08 Co. Lab#:
Company: SunStar Laboratories, Inc
API/Well:
Container: 250ml Plastic Bottle
Field/Site Name: T213691
Location:
Formation/Depth:
Sampling Point:
Date Sampled: 12/02/2021 16:25 Date Received: 12/07/2021 Date Reported: 12/21/2021

δ D of water ----- -69.5 ‰ relative to VSMOW
 δ ¹⁸O of water ----- -8.47 ‰ relative to VSMOW
Tritium content of water ----- na
 δ ¹³C of DIC ----- na
¹⁴C content of DIC ----- na
 δ ¹⁵N of nitrate ----- na
 δ ¹⁸O of nitrate ----- na
 δ ³⁴S of sulfate ----- na
 δ ¹⁸O of sulfate ----- na
Vacuum Distilled? * ----- No

Remarks:

nd = not detected. na = not analyzed.

*Indicates if vacuum distillation was utilized for hydrogen and oxygen isotopic analysis of water



Lab #: 810651 Job #: 49539 IS-101168 Co. Job#:
Sample Name: T231691-09 Co. Lab#:
Company: SunStar Laboratories, Inc
API/Well:
Container: 250ml Plastic Bottle
Field/Site Name: T213691
Location:
Formation/Depth:
Sampling Point:
Date Sampled: 12/02/2021 17:50 Date Received: 12/07/2021 Date Reported: 12/21/2021

δ D of water ----- -70.6 ‰ relative to VSMOW
 δ ¹⁸O of water ----- -8.69 ‰ relative to VSMOW
Tritium content of water ----- na
 δ ¹³C of DIC ----- na
¹⁴C content of DIC ----- na
 δ ¹⁵N of nitrate ----- na
 δ ¹⁸O of nitrate ----- na
 δ ³⁴S of sulfate ----- na
 δ ¹⁸O of sulfate ----- na
Vacuum Distilled? * ----- No

Remarks:

nd = not detected. na = not analyzed.

*Indicates if vacuum distillation was utilized for hydrogen and oxygen isotopic analysis of water



Lab #: 810652 Job #: 49539 IS-101168 Co. Job#:
Sample Name: T231691-10 Co. Lab#:
Company: SunStar Laboratories, Inc
API/Well:
Container: 250ml Plastic Bottle
Field/Site Name: T213691
Location:
Formation/Depth:
Sampling Point:
Date Sampled: 12/02/2021 0:00 Date Received: 12/07/2021 Date Reported: 12/21/2021

δ D of water ----- -77.8 ‰ relative to VSMOW
 δ ¹⁸O of water ----- -10.24 ‰ relative to VSMOW
Tritium content of water ----- na
 δ ¹³C of DIC ----- na
¹⁴C content of DIC ----- na
 δ ¹⁵N of nitrate ----- na
 δ ¹⁸O of nitrate ----- na
 δ ³⁴S of sulfate ----- na
 δ ¹⁸O of sulfate ----- na
Vacuum Distilled? * ----- No

Remarks:

nd = not detected. na = not analyzed.

*Indicates if vacuum distillation was utilized for hydrogen and oxygen isotopic analysis of water

WORK ORDER

T213691

Client: Northstar Environmental Remediation
Project: Genesis Solar Groundwater

Project Manager: Jeff Lee
Project Number: 196-004-06

Report To:

Northstar Environmental Remediation
 Arlin Brewster
 26225 Enterprise Court
 Lake Forest, CA 92630

Date Due: 12/17/21 00:00 (10 day TAT)

Received By: Jeff Lee

Date Received: 12/03/21 14:15

Logged In By: Jeff Lee

Date Logged In: 12/03/21 14:28

Samples Received at: **0.9°C**

Custody Seals No Received On Ice Yes

Containers Intact Yes

COC/Labels Agree Yes

Preservation Confir Yes

Analysis	Due	TAT	Expires	Comments
T213691-01 23A [Water] Sampled 12/03/21 06:45 (GMT-08:00) Pacific Time (US &				
1664	12/10/21 15:00	5	12/31/21 06:45	Oil & Grease
200.7	12/10/21 15:00	5	06/01/22 06:45	Ca,Cu,Na,K,Fe,Mg
200.8	12/10/21 15:00	5	06/01/22 06:45	Sb,As,Ba,Cd,Cr,Co,Pb,Ni,Se,Zn
300.0 - F, Cl, Br, SO4	12/10/21 15:00	5	12/31/21 06:45	Chloride,Sulfate only
300.0 - NO2, NO3, PO4	12/10/21 15:00	5	12/05/21 06:45	Nitrate
7470/71 Hg	12/10/21 15:00	5	03/03/22 06:45	
Conductivity	12/10/21 15:00	5	12/31/21 06:45	
pH water SM 4500-H+B	12/08/21 15:00	3	12/04/21 06:45	
TDS-160.1	12/10/21 15:00	5	12/10/21 06:45	

T213691-02 OBS-1 [Water] Sampled 12/03/21 09:35 (GMT-08:00) Pacific Time (US &

1664	12/10/21 15:00	5	12/31/21 09:35	Oil & Grease
200.7	12/10/21 15:00	5	06/01/22 09:35	Ca,Cu,Na,K,Fe,Mg
200.8	12/10/21 15:00	5	06/01/22 09:35	Sb,As,Ba,Cd,Cr,Co,Pb,Ni,Se,Zn
300.0 - F, Cl, Br, SO4	12/10/21 15:00	5	12/31/21 09:35	Chloride,Sulfate only
300.0 - NO2, NO3, PO4	12/10/21 15:00	5	12/05/21 09:35	Nitrate
7470/71 Hg	12/10/21 15:00	5	03/03/22 09:35	
Conductivity	12/10/21 15:00	5	12/31/21 09:35	
pH water SM 4500-H+B	12/08/21 15:00	3	12/04/21 09:35	
TDS-160.1	12/10/21 15:00	5	12/10/21 09:35	

WORK ORDER

T213691

Client: Northstar Environmental Remediation
Project: Genesis Solar Groundwater

Project Manager: Jeff Lee
Project Number: 196-004-06

Analysis	Due	TAT	Expires	Comments
T213691-03 TW-1 [Water] Sampled 12/03/21 09:00 (GMT-08:00) Pacific Time				
(US &				
1664	12/10/21 15:00	5	12/31/21 09:00	Oil & Grease
200.7	12/10/21 15:00	5	06/01/22 09:00	Ca,Cu,Na,K,Fe,Mg
200.8	12/10/21 15:00	5	06/01/22 09:00	Sb,As,Ba,Cd,Cr,Co,Pb,Ni,Se,Zn
300.0 - F, Cl, Br, SO4	12/10/21 15:00	5	12/31/21 09:00	Chloride,Sulfate only
300.0 - NO2, NO3, PO4	12/10/21 15:00	5	12/05/21 09:00	Nitrate
7470/71 Hg	12/10/21 15:00	5	03/03/22 09:00	
Conductivity	12/10/21 15:00	5	12/31/21 09:00	
pH water SM 4500-H+B	12/08/21 15:00	3	12/04/21 09:00	
TDS-160.1	12/10/21 15:00	5	12/10/21 09:00	
T213691-04 TW-2 [Water] Sampled 12/02/21 12:35 (GMT-08:00) Pacific Time				
(US &				
1664	12/10/21 15:00	5	12/30/21 12:35	Oil & Grease
200.7	12/10/21 15:00	5	05/31/22 12:35	Ca,Cu,Na,K,Fe,Mg
200.8	12/10/21 15:00	5	05/31/22 12:35	Sb,As,Ba,Cd,Cr,Co,Pb,Ni,Se,Zn
300.0 - F, Cl, Br, SO4	12/10/21 15:00	5	12/30/21 12:35	Chloride,Sulfate only
300.0 - NO2, NO3, PO4	12/10/21 15:00	5	12/04/21 12:35	Nitrate
7470/71 Hg	12/10/21 15:00	5	03/02/22 12:35	
Conductivity	12/10/21 15:00	5	12/30/21 12:35	
pH water SM 4500-H+B	12/08/21 15:00	3	12/03/21 12:35	
TDS-160.1	12/10/21 15:00	5	12/09/21 12:35	
T213691-05 PW-0 [Water] Sampled 12/02/21 13:46 (GMT-08:00) Pacific Time				
(US &				
1664	12/10/21 15:00	5	12/30/21 13:46	Oil & Grease
200.7	12/10/21 15:00	5	05/31/22 13:46	Ca,Cu,Na,K,Fe,Mg
200.8	12/10/21 15:00	5	05/31/22 13:46	Sb,As,Ba,Cd,Cr,Co,Pb,Ni,Se,Zn
300.0 - F, Cl, Br, SO4	12/10/21 15:00	5	12/30/21 13:46	Fluoride, Chloride,Sulfate only
300.0 - NO2, NO3, PO4	12/10/21 15:00	5	12/04/21 13:46	Nitrate
7470/71 Hg	12/10/21 15:00	5	03/02/22 13:46	
Conductivity	12/10/21 15:00	5	12/30/21 13:46	
pH water SM 4500-H+B	12/08/21 15:00	3	12/03/21 13:46	
TDS-160.1	12/10/21 15:00	5	12/09/21 13:46	

WORK ORDER**T213691**
Client: Northstar Environmental Remediation
Project: Genesis Solar Groundwater

Project Manager: Jeff Lee
Project Number: 196-004-06

Analysis	Due	TAT	Expires	Comments
T213691-06 PW-2 [Water] Sampled 12/02/21 13:15 (GMT-08:00) Pacific Time				
(US &				
1664	12/10/21 15:00	5	12/30/21 13:15	Oil & Grease
200.7	12/10/21 15:00	5	05/31/22 13:15	Ca,Cu,Na,K,Fe,Mg
200.8	12/10/21 15:00	5	05/31/22 13:15	Sb,As,Ba,Cd,Cr,Co,Pb,Ni,Se,Zn
300.0 - F, Cl, Br, SO4	12/10/21 15:00	5	12/30/21 13:15	Fluoride, Chloride,Sulfate only
300.0 - NO2, NO3, PO4	12/10/21 15:00	5	12/04/21 13:15	Nitrate
7470/71 Hg	12/10/21 15:00	5	03/02/22 13:15	
Conductivity	12/10/21 15:00	5	12/30/21 13:15	
pH water SM 4500-H+B	12/08/21 15:00	3	12/03/21 13:15	
TDS-160.1	12/10/21 15:00	5	12/09/21 13:15	
T213691-07 DM-1 [Water] Sampled 12/02/21 15:15 (GMT-08:00) Pacific Time				
(US &				
1664	12/10/21 15:00	5	12/30/21 15:15	Oil & Grease
200.7	12/10/21 15:00	5	05/31/22 15:15	Ca,Cu,Na,K,Fe,Mg
200.8	12/10/21 15:00	5	05/31/22 15:15	Sb,As,Ba,Cd,Cr,Co,Pb,Ni,Se,Zn
300.0 - F, Cl, Br, SO4	12/10/21 15:00	5	12/30/21 15:15	Chloride,Sulfate only
300.0 - NO2, NO3, PO4	12/10/21 15:00	5	12/04/21 15:15	Nitrate
7470/71 Hg	12/10/21 15:00	5	03/02/22 15:15	
Conductivity	12/10/21 15:00	5	12/30/21 15:15	
pH water SM 4500-H+B	12/08/21 15:00	3	12/03/21 15:15	
TDS-160.1	12/10/21 15:00	5	12/09/21 15:15	
T213691-08 DM-2 [Water] Sampled 12/02/21 16:25 (GMT-08:00) Pacific Time				
(US &				
1664	12/10/21 15:00	5	12/30/21 16:25	Oil & Grease
200.7	12/10/21 15:00	5	05/31/22 16:25	Ca,Cu,Na,K,Fe,Mg
200.8	12/10/21 15:00	5	05/31/22 16:25	Sb,As,Ba,Cd,Cr,Co,Pb,Ni,Se,Zn
300.0 - F, Cl, Br, SO4	12/10/21 15:00	5	12/30/21 16:25	Chloride,Sulfate only
300.0 - NO2, NO3, PO4	12/10/21 15:00	5	12/04/21 16:25	Nitrate
7470/71 Hg	12/10/21 15:00	5	03/02/22 16:25	
Conductivity	12/10/21 15:00	5	12/30/21 16:25	
pH water SM 4500-H+B	12/08/21 15:00	3	12/03/21 16:25	
TDS-160.1	12/10/21 15:00	5	12/09/21 16:25	

WORK ORDER

T213691

Client: Northstar Environmental Remediation
Project: Genesis Solar Groundwater

Project Manager: Jeff Lee
Project Number: 196-004-06

Analysis	Due	TAT	Expires	Comments
T213691-09 DM-3 [Water] Sampled 12/02/21 17:50 (GMT-08:00) Pacific Time (US &				
1664	12/10/21 15:00	5	12/30/21 17:50	Oil & Grease
200.7	12/10/21 15:00	5	05/31/22 17:50	Ca,Cu,Na,K,Fe,Mg
200.8	12/10/21 15:00	5	05/31/22 17:50	Sb,As,Ba,Cd,Cr,Co,Pb,Ni,Se,Zn
300.0 - F, Cl, Br, SO4	12/10/21 15:00	5	12/30/21 17:50	Chloride,Sulfate only
300.0 - NO2, NO3, PO4	12/10/21 15:00	5	12/04/21 17:50	Nitrate
7470/71 Hg	12/10/21 15:00	5	03/02/22 17:50	
Conductivity	12/10/21 15:00	5	12/30/21 17:50	
pH water SM 4500-H+B	12/08/21 15:00	3	12/03/21 17:50	
TDS-160.1	12/10/21 15:00	5	12/09/21 17:50	
T213691-10 DUP [Water] Sampled 12/02/21 00:00 (GMT-08:00) Pacific Time (US &				
1664	12/10/21 15:00	5	12/30/21 00:00	Oil & Grease
200.7	12/10/21 15:00	5	05/31/22 00:00	Ca,Cu,Na,K,Fe,Mg
200.8	12/10/21 15:00	5	05/31/22 00:00	Sb,As,Ba,Cd,Cr,Co,Pb,Ni,Se,Zn
300.0 - F, Cl, Br, SO4	12/10/21 15:00	5	12/30/21 00:00	Chloride,Sulfate only
300.0 - NO2, NO3, PO4	12/10/21 15:00	5	12/04/21 00:00	Nitrate
7470/71 Hg	12/10/21 15:00	5	03/02/22 00:00	
Conductivity	12/10/21 15:00	5	12/30/21 00:00	
pH water SM 4500-H+B	12/08/21 15:00	3	12/03/21 00:00	
TDS-160.1	12/10/21 15:00	5	12/09/21 00:00	
T213691-11 FIELD BLANK [Water] Sampled 12/02/21 00:00 (GMT-08:00) Pacific Time (US &				HOLD
[NO ANALYSES]				
T213691-12 TRIP BLANK [Water] Sampled 12/02/21 00:00 (GMT-08:00) Pacific Time (US &				HOLD
[NO ANALYSES]				
Eurofins TestAmerica (Irvine) Laboratories				
T213691-01 23A [Water] Sampled 12/03/21 06:45 (GMT-08:00) Pacific Time (US &				
Misc Water Testing #1	12/17/21 00:00	10	06/01/22 06:45	8015M- Therminol
T213691-02 OBS-1 [Water] Sampled 12/03/21 09:35 (GMT-08:00) Pacific Time (US &				
Misc Water Testing #1	12/17/21 00:00	10	06/01/22 09:35	8015M- Therminol

WORK ORDER

T213691

Client: Northstar Environmental Remediation
Project: Genesis Solar Groundwater

Project Manager: Jeff Lee
Project Number: 196-004-06

Analysis	Due	TAT	Expires	Comments
Eurofins TestAmerica (Irvine) Laboratories				
T213691-03 TW-1 [Water] Sampled 12/03/21 09:00 (GMT-08:00) Pacific Time (US &				
Misc Water Testing #1	12/17/21 00:00	10	06/01/22 09:00	8015M- Therminol
T213691-04 TW-2 [Water] Sampled 12/02/21 12:35 (GMT-08:00) Pacific Time (US &				
Misc Water Testing #1	12/17/21 00:00	10	05/31/22 12:35	8015M- Therminol
T213691-05 PW-0 [Water] Sampled 12/02/21 13:46 (GMT-08:00) Pacific Time (US &				
Misc Water Testing #1	12/17/21 00:00	10	05/31/22 13:46	8015M- Therminol
T213691-06 PW-2 [Water] Sampled 12/02/21 13:15 (GMT-08:00) Pacific Time (US &				
Misc Water Testing #1	12/17/21 00:00	10	05/31/22 13:15	8015M- Therminol
T213691-07 DM-1 [Water] Sampled 12/02/21 15:15 (GMT-08:00) Pacific Time (US &				
Misc Water Testing #1	12/17/21 00:00	10	05/31/22 15:15	8015M- Therminol
T213691-08 DM-2 [Water] Sampled 12/02/21 16:25 (GMT-08:00) Pacific Time (US &				
Misc Water Testing #1	12/17/21 00:00	10	05/31/22 16:25	8015M- Therminol
T213691-09 DM-3 [Water] Sampled 12/02/21 17:50 (GMT-08:00) Pacific Time (US &				
Misc Water Testing #1	12/17/21 00:00	10	05/31/22 17:50	8015M- Therminol
T213691-10 DUP [Water] Sampled 12/02/21 00:00 (GMT-08:00) Pacific Time (US &				
Misc Water Testing #1	12/17/21 00:00	10	05/31/22 00:00	8015M- Therminol
Isotech Laboratories, Inc.				
T213691-01 23A [Water] Sampled 12/03/21 06:45 (GMT-08:00) Pacific Time (US &				
Misc Water Testing #2	12/17/21 00:00	10	06/01/22 06:45	Deuterium,Oxygen-18
T213691-02 OBS-1 [Water] Sampled 12/03/21 09:35 (GMT-08:00) Pacific Time (US &				
Misc Water Testing #2	12/17/21 00:00	10	06/01/22 09:35	Deuterium,Oxygen-18

WORK ORDER

T213691

Client: Northstar Environmental Remediation
Project: Genesis Solar Groundwater

Project Manager: Jeff Lee
Project Number: 196-004-06

Analysis	Due	TAT	Expires	Comments
Isotech Laboratories, Inc.				
T213691-03 TW-1 [Water] Sampled 12/03/21 09:00 (GMT-08:00) Pacific Time (US &				
Misc Water Testing #2	12/17/21 00:00	10	06/01/22 09:00	Deuterium,Oxygen-18
T213691-04 TW-2 [Water] Sampled 12/02/21 12:35 (GMT-08:00) Pacific Time (US &				
Misc Water Testing #2	12/17/21 00:00	10	05/31/22 12:35	Deuterium,Oxygen-18
T213691-05 PW-0 [Water] Sampled 12/02/21 13:46 (GMT-08:00) Pacific Time (US &				
Misc Water Testing #2	12/17/21 00:00	10	05/31/22 13:46	Deuterium,Oxygen-18
T213691-06 PW-2 [Water] Sampled 12/02/21 13:15 (GMT-08:00) Pacific Time (US &				
Misc Water Testing #2	12/17/21 00:00	10	05/31/22 13:15	Deuterium,Oxygen-18
T213691-07 DM-1 [Water] Sampled 12/02/21 15:15 (GMT-08:00) Pacific Time (US &				
Misc Water Testing #2	12/17/21 00:00	10	05/31/22 15:15	Deuterium,Oxygen-18
T213691-08 DM-2 [Water] Sampled 12/02/21 16:25 (GMT-08:00) Pacific Time (US &				
Misc Water Testing #2	12/17/21 00:00	10	05/31/22 16:25	Deuterium,Oxygen-18
T213691-09 DM-3 [Water] Sampled 12/02/21 17:50 (GMT-08:00) Pacific Time (US &				
Misc Water Testing #2	12/17/21 00:00	10	05/31/22 17:50	Deuterium,Oxygen-18
T213691-10 DUP [Water] Sampled 12/02/21 00:00 (GMT-08:00) Pacific Time (US &				
Misc Water Testing #2	12/17/21 00:00	10	05/31/22 00:00	Deuterium,Oxygen-18