DOCKETED	
Docket Number:	09-AFC-08C
Project Title:	Genesis Solar Energy Project
TN #:	265370
Document Title:	2025 S1 Groundwater Detection Monitoring Report
Description:	N/A
Filer:	Cynthia Keller
Organization:	NexteraEnergy Resources
Submitter Role:	Applicant
Submission Date:	8/7/2025 12:44:49 PM
Docketed Date:	8/7/2025



2025 FIRST SEMIANNUAL GROUNDWATER DETECTION MONITORING REPORT Genesis Solar Energy Project

Riverside County, California

COC S&W-6

July 11, 2025

Prepared By:

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2025 FIRST SEMIANNUAL GROUNDWATER DETECTION 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

July 11, 2025

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1.0 INTRODUCTION

Northstar Environmental Remediation (Northstar) has prepared this 2025 First Semiannual Groundwater Detection Monitoring Report on behalf of Genesis Solar, LLC (Genesis). This report details groundwater detection monitoring performed in the first half of 2025 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 consists of two independent concentrated solar electric generating facilities with a nominal net electrical output of 125 megawatts (MW) each (a total net electrical output of 250 MW).

Northstar conducts groundwater detection monitoring in accordance with Condition of Certification Soil & Water 6 (COC S&W-6) as presented in the California Energy Commission (CEC) Final Decision document dated October 12, 2010 (CEC, 2010). The COC S&W-6 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 submitted an updated Plan of Development (POD) for the GSEP in September 2010 (Genesis Solar, LLC 2010). In addition, Genesis filed an Application for Certification (AFC) for the GSEP to the 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 GSEP uses dry cooling technology and relies on groundwater as a water source during operation. Three groundwater production wells installed at the GSEP between July and October 2011 are permitted to pump groundwater at an average rate of 202 acre-feet per year (afy) (up to 1,348 afy during construction).

The Final Decision and FEIS discuss the potential impacts associated with the proposed groundwater use by the GSEP. Groundwater drawdown impacts are anticipated to be less than significant, but because the prediction of groundwater level effects by computer modeling entails inherent uncertainty, both the Final Decision and the FEIS adopted COC S&W-2 for the GSEP to monitor groundwater level at the vicinity of the GSEP.

Two evaporation ponds (licensed as Class II Surface Impoundments) located between Solar Fields 1 and 2 accept wastewater generated during GSEP operation (**Figure 3**). 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 (**Figure 4**). 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 lies between the communities of Blythe and Desert Center, California. 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 approximately 6 miles southeast of the GSEP.

The GSEP lies on 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 to the mountains have formed alluvial fans from multiple identifiable sources, and multiple fan surfaces have coalesced into a single bajada surface that wraps around each of these mountain fronts. Between the bajada surfaces from each mountain chain 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.

Climatic data collected from Weather Station Blythe Riverside Airport (33.61°N, -114.71°W, at an elevation of about 387 feet amsl) indicate 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). Northstar obtained this data from the 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 940 mi² (2,435 km²) underlying Chuckwalla Valley. It is bounded upgradient 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 downgradient by the Palo Verde Mesa Groundwater Basin (Palo Verde Basin) (Figure 2). Groundwater occurs at depths of about 80 to 140 feet below ground surface (bgs) and groundwater flow is generally southeast to eastward, from the Chuckwalla Basin to the Palo Verde Basin (Figure 2).

Sources of groundwater recharge to the Chuckwalla Basin includes 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 prior to GSEP operations indicate a stable surplus of 2,600 afy (CEC, 2010). Current operational demand, based on calendar year 2024 extraction data, is approximately 103.9 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 is the unconsolidated to partially consolidated Pliocene-aged Bouse Formation, consisting of coarse alluvium and fanglomerate deposits (Wilson and Owen-Joyce, 1994). Below the Bouse Formation is 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 below ground surface); and, the deeper Bouse Formation aquifer (extending between approximately 250 to 6,500 feet below ground surface) (Wilson and Owen-Joyce, 1994). The Pinto Formation exists only on the eastern fringe of the Chuckwalla Basin and is generally 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 88.25 feet bgs (299.15 feet amsl) in TW-1, located upgradient of the site, to 134.55 feet bgs (257.55 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 detection monitoring in accordance with COC S&W-6 as described in the CEC's Final Decision. The primary objectives for the evaporation pond detection as outlined in the MRP are to:

- Establish baseline conditions by conducting four quarters of monitoring prior to discharge of wastewater to the ponds;
- Collect water level elevation data to characterize groundwater flow conditions in the uppermost water-bearing zone beneath the evaporation pond area;
- Collect and evaluate water quality data using approved statistical and other methods to identify
 potential changes in the existing water quality of the aquifer immediately underlying the
 evaporation ponds; and,

 Demonstrate compliance with the discharge requirements contained in COC S&W-6 and the WDR for the GSEP.

2.0 EVAPORATION PONDS

2.1 Evaporation Pond Overview

The North and South Evaporation Ponds (sometimes referred to as the West and East ponds, respectively) were designed by Fluor Corp. and are identified on **Figure 3**. Each pond is constructed with multiple layers of containment that drain to a centralized collection sump. The pond drainage sump slopes away from the centerline of the ponds to the north and south and is equipped with a set of three moisture detection probes in each side. Each pond is also equipped with a pump to return all accumulated water back to the pond surface.

2.2 Monitoring Methods

On a semiannual basis, a sample is collected from each of the evaporation ponds and identified as the North Pond and South Pond. Representative water is collected in a clean, dedicated 5-gallon bucket and processed into sample containers inside the containment area. 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 Tustin, California. 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,

2.3 Evaporation Pond Sample Results

Analytical data for the evaporation ponds is included in **Table 4** and certified laboratory reports are included in **Appendix B**. In summary:

- The laboratory did not detect nitrate, copper, iron, antimony, cadmium, chromium (total), cobalt, lead, zinc, mercury, oil & grease, or heat transfer fluid in either pond; and,
- The laboratory did not detect barium in the North Pond only;
- The laboratory did not detect nickel in the South Pond only;
- Compound concentrations were higher in the North Pond.

3.0 POND DRAINAGE SUMP SYSTEM

3.1 Pond Drainage Sump System Overview

A cross-sectional schematic of the pond drainage sump system is included in **Figure 5**. As shown in the figure, each pond is equipped with a total of six probes (Watermark Model 200SS electrical resistance probes) installed at a distance of 15, 70, and 110 feet from the pond centerline.

The water return pumps are installed on the north side of the North Pond and the south side of the South Pond. Readings from the totalizers on each pump are recorded on a quarterly basis.

3.2 Monitoring Methods

Terminals attached to the probe wire leads are stored in a weatherproof vault at the north and south end of each pond, where resistivity readings can be collected using a Watermark 30-KTCD-NL meter. Values can range from 0-10 centibars (saturated) to 199 centibars (dry). Readings are collected from the probes and the nearby water return pumps on a quarterly basis and summarized in **Table 5**. If the pump totalizers show any signs of increase, or if the probes display values within the saturated range (usually started with probe #1 in the lowest part of the sump), Northstar notifies NextEra operations who then conduct further investigation.

3.3 Monitoring Results

No water was pumped from the North or South Pond during the reporting period and the totalizers currently read 607.01 and 7.48 gallons, respectively.

All of the probes provided a 'dry' reading in the first and second quarter. There was a minor amount of condensate inside the northern well cap of the North Pond.

4.0 DETECTION MONITORING WELLS

4.1 Detection Monitoring Well Overview

A total of three detection monitoring wells were installed around the perimeter of the evaporation ponds (**Figure 4**). Detection monitoring wells DM-1, DM-2, and DM-3 were installed to a total depth of 120 feet bgs into the shallow Alluvium aquifer with screened intervals between 100 to 120 feet bgs. **Table 1** provides construction details for the wells. Well DM-1 is located upgradient, west of the ponds. Well DM-2 and DM-3 are located downgradient, east and south of the ponds, respectively.

4.2 Monitoring Methods

Northstar measured the depth to groundwater in each well using a Solinst interface probe. Field staff documented 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** includes the groundwater level measurements and calculated water level elevations. **Figure 4** illustrates the groundwater elevation contours and flow direction.

Each detection monitoring well has a dedicated 1.66-inch diameter Geotech® stainless steel submersible bladder pump and dedicated sample tubing with water intakes set at the middle of wetted screen at 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 staff decontaminate reusable/non-dedicated equipment (water level probe and flow-through cell) prior to use at each well. Decontamination of reusable equipment consisted of washing with a laboratory-grade non-phosphate detergent (Liquinox or equivalent) and potable water solution followed by a double rinse with demineralized water.

Field staff measure groundwater parameters with a water quality field instrument (YSI, Horiba, or equivalent) connected to a flow-through cell. Staff calibrate the instrument at the beginning of each day and decontaminate it prior to use in each well. 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.

Wells were purged 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).

After purging and parameter stabilization, the flow-through cell was disconnected so samples could be collected from the pump discharge. Field staff wore new nitrile gloves to collect groundwater samples in clean bottles (preserved as appropriate) provided by the laboratory. Where required, samples were field filtered with a new 0.45-micron filter attached to the end of the discharge tubing. Staff labeled sample containers with the sample identification, date, time, sampler, analytical method, and placed them in a chilled ice chest. Northstar delivered the samples under proper chain-of-custody protocol to the laboratory.

Groundwater purged from DM-1, DM-2, and DM-3 was temporarily contained in a sealed 5-gallon bucket and then disposed in the evaporation ponds as directed in the MRP (Part II A.1.b.). **Table 3** includes the measured field parameters documented at the end of purging activities.

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 Tustin, California. They also subcontract the oxygen-18 and deuterium analysis 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.

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), as required, with each analytical batch.

Northstar collects a duplicate sample once per sampling event that is submitted to the laboratory without identifiers that associate the sample with a well, date, or time. During this event, a duplicate sample from well PW-2 was collected for analysis. **Table 4** of the *Groundwater Quality Monitoring Report* (Northstar, 2025) provides a summary of analytical results for the duplicate sample.

In addition to these methods, a set of quality control blank samples is collected and put on hold at the laboratory pending analysis of the groundwater samples. These samples include a field blank and trip blank. 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.

4.3 Results of Water Level Measurements

Table 2 provides the wellhead reference elevation (toc elevation), depth to groundwater, and water level elevations for each detection monitoring well. Depth to groundwater ranged from 104.65 (well DM-3) to 107.80 (well DM-2) feet bgs, and the calculated groundwater elevations range from 283.52 (well DM-2) to 284.01 (well DM-1) feet amsl.

Northstar used groundwater elevation data to generate a potentiometric surface contour map of the uppermost water-bearing zone beneath the evaporation pond (**Figure 4**). The groundwater flow direction and gradient beneath the site were determined based on linear interpolation between contours of equal elevation. Groundwater flow beneath the evaporation ponds was determined to be predominantly in an east to southeast direction at a gradient of approximately 0.0006 feet/foot. The groundwater flow direction and gradient are consistent with historical monitoring events. Groundwater flow direction has historically ranged between east-northeast and southeast and the gradient has ranged between 0.0004 and 0.0007 feet/foot.

4.4 Groundwater Flow Velocity

The average horizontal groundwater flow velocity beneath the evaporation ponds was estimated using the following equation:

V = (KhI)/ne

Where:

V = average linear groundwater velocity (in feet per day)

Kh = aquifer horizontal hydraulic conductivity (in feet per day)

I = average hydraulic gradient (vertical change in groundwater elevation/corresponding horizontal distance in feet per lateral feet), and

ne = effective aquifer porosity.

Each monitoring well is screened from 100-120 feet bgs in fine-grained sand, as detailed in the Detection Monitoring Well Installation Report (WorleyParsons, 2012). The reported hydraulic conductivity for fine-grained sand is approximately 0.03 to 60 feet/day, as stated in scientific references (Domenico and Schwartz, 1990). Based on the characteristics of the shallow Alluvium aquifer in which the detection monitoring wells are screened, this calculation assumes an average hydraulic conductivity value of 15 to 30 feet/day, an effective porosity of 25 percent, and an average gradient of 0.0006 feet/foot, as estimated from **Figure 4**.

Based on these calculations, the average groundwater velocity estimated in the uppermost water-bearing zone beneath the evaporation ponds is approximately 0.036 to 0.072 feet laterally per day, or 13.14 to 26.28 lateral feet per year. Historically, estimates of groundwater flow velocity have ranged from 8.76 to 30.66 lateral feet per year.

4.5 General Chemical Analysis

Table 4 provides a summary of the detection monitoring well groundwater sample analytical results. **Appendix B** contains copies of the laboratory analytical reports for the groundwater samples. Groundwater samples from detection monitoring wells DM-1, DM-2, and DM-3 were analyzed for the parameters listed in Section 4.2. The concentration of detected analytes is generally similar between the detection monitoring wells. Similarity in the concentrations of analytes is expected as the three wells are located within 1,000 feet of each other and are screened at the same depth interval (100-120 feet bgs).

The following is a summary of the groundwater monitoring results for the detection monitoring wells since the beginning of the monitoring program:

- **Chloride** detections have been consistent for all wells and have ranged from 4,400 to 9,760 milligrams per liter (mg/L), averaging 5,396 mg/L.
- Sulfate as SO₄ detections have been consistent for all wells and have ranged from 1,600 to 4,350 mg/L, averaging 2,110 mg/L.
- Nitrate as NO₃ detections have been consistent for all wells and have ranged from non-detect to 21.2 mg/L, averaging 7.52 mg/L.
- **Total Dissolved Solid** concentrations have been consistent for all wells and have ranged from 6,800 to 14,000 mg/L, averaging 10,611 mg/L.
- pH levels have been consistent for all wells and have ranged from 7.2 to 8.2 standard units, averaging 7.8 standard units.
- Specific Conductivity levels have been consistent for all wells and have ranged from 13,000 to 22,000 microSiemens per centimeter (μs/cm), averaging 17,758 μs/cm.
- Antimony has not been detected above the reporting limit for all wells.
- Arsenic detections have been consistent for all wells and have ranged from non-detect to 26 μ g/L, averaging 11.3 μ g/L.
- **Barium** detections have been inconsistent between all wells, averaging 33.4 μg/L in upgradient well DM-1, 58.8 μg/L in downgradient well DM-2, and 18.3 μg/L in downgradient well DM-3.
- Cadmium has not been detected above the reporting limit for all wells.
- Calcium detections have been consistent for all wells and have ranged from 190 to 470 mg/L, averaging 251 mg/L.
- Chromium (Total) detections have been inconsistent because the concentrations are frequently between the MDL and RL. Reportable concentrations have ranged from 3.1 to 3.7 μ g/L, averaging 3.4 μ g/L.
- Cobalt has not been detected above the reporting limit for all wells.

- Copper detections have been inconsistent because the concentrations are frequently between the MDL and RL. Reportable concentrations have ranged from 0.006 to 0.027 mg/L, averaging 0.011 mg/L.
- Lead has not been detected above the reporting limit for all wells.
- Mercury has only been detected once above the reporting limit in upgradient well DM-1 at a concentration of 0.26 μg/L. Mercury has not been detected at or above the reporting limit in wells DM-2 and DM-3.
- Nickel has only been detected once above the reporting limit in downgradient well DM-3 at a concentration of 10 μg/L. Nickel has not been detected at or above the reporting limit in wells DM-1 or DM-2.
- Selenium detections have been inconsistent because the concentrations are frequently between the MDL and RL. Reportable concentrations have ranged from 0.68 to 55 μg/L, averaging 13.8 μg/L.
- **Zinc** detections have been inconsistent because the concentrations are frequently between the MDL and RL. Reportable concentrations have ranged from 0.55 to 76 μ g/L, averaging 21.1 μ g/L.

4.6 Non-Statistical Analysis

In accordance with the MRP Part II.A.5 and Part III.A.2, a non-statistical analysis has been applied to the groundwater analytical results for this sampling event.

The non-statistical analysis requires all detections of the constituents of concern (ie, those defined in Part II.A.4 of the same document) reported above the method detection limit (MDL) in the downgradient wells (DM-2 and DM-3) that do not appear in the upgradient well (DM-1) be identified, and where there are either a) two or more constituents identified in this list from a single downgradient monitoring point, or b) one of the identified constituents in this list exceeds the Practical Quantification Limit (PQL), a release is tentatively indicated.

For the purposes of this report, the PQL is equal to the reporting limit (RL) as identified for each constituent in the laboratory report, which is generally 5 times the MDL. The results of the non-statistical method for this sampling event is as follows:

- Well DM-2: There are no constituents of concern that meet the release detection criteria.
- Well DM-3: Arsenic was detected at a concentration of 16 μ g/L. Arsenic appears to be naturally occurring in DM-3, historically being detected at an average concentration of 16.1 μ g/L; therefore, this is unlikely to be an indication of a release.

4.7 Quality Assurance/Quality Control

As documented in the attached laboratory reports (see **Appendix B**), groundwater samples collected from the evaporation pond detection monitoring wells during this sampling event 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, and nitrate as NO3, which has a 48-hour hold time).

No analytes were detected in the method blank sample.

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 and/or relative percent difference (RPD) was outside acceptable limits for the MS and/or MSD, but the batch was accepted based on acceptable LCS recovery data. This may have affected the results for calcium, chromium, iron, magnesium, potassium, and sodium.
- The spike recovery was outside acceptable limits for the MS and/or MSD due to possible matrix interference. The LCS was within acceptance criteria and no negative impact is expected. This may have affected the results for chloride, sulfate, and nitrate.

Duplicate sample control: For this event, a duplicate sample (named DUP) was collected from sample point PW-2 (as reported in the *Groundwater Quality Monitoring Report* (Northstar, 2025). 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%.

5.0 LAND TREATMENT UNIT SUMMARY

The Land Treatment Unit (LTU) is an onsite bioremediation landfarm utilized for the treatment of soil contaminated with the heat transfer fluid (HTF) Therminol. Soil from all HTF spills is excavated within 48 hours and placed in one of four treatment bays, numbered LTU #1 to 4. The soil is then tested to determine whether it can be effectively treated onsite (under 10,000 mg/kg of HTF) or if it is hazardous and would be more effectively treated offsite (above 10,000 mg/kg of HTF).

Soil in the LTUs is overturned on a weekly basis by onsite staff to aid in the bioremediation of the soil. A representative composite soil sample is collected from each bay on a quarterly basis (or as needed) and analyzed by EPA Method 8015M for Therminol (characterized by the chemical markers 1,1'-oxybis-benzene and 1,1'-biphenyl) to monitor the progress of remediation. Once the concentration is less than 100 mg/kg of HTF, the soil may be removed from the LTU and staged onsite for later use. Treatment is enhanced by the addition of moisture and fertilizers. Laboratory reports for the data referenced below is included in **Appendix C**.

Sample Date: March 26, 2025

Reason for Sample: Routine quarterly sampling of soil in LTU bays

Sample ID: LTU #1 and 2

Results: 1,1'-oxybis-benzene: ranged from 3,200 to 3,500 mg/kg; 1,1'-biphenyl: ranged from 990

to 1,100 mg/kg

Outcome: Onsite treatment continued

Sample Date: June 3, 2025

Reason for Sample: Routine quarterly sampling of soil in LTU bays

Sample ID: LTU #1 and 2

Results: 1,1'-oxybis-benzene: ranged from 3,800 to 5,100 mg/kg; 1,1'-biphenyl: ranged from 1,200

to 1,600 mg/kg

Outcome: Onsite treatment continued

6.0 ANNUAL SUMMARY

The 2025 annual summary will be included in the 2025 Annual Groundwater Detection Monitoring Report, produced by Northstar by January 15, 2026.

7.0 CONCLUSIONS

Based on the available data obtained during this sample event:

- While arsenic was only detected in downgradient detection monitoring well DM-3, it is naturally occurring in this well and the concentration was close to average.
- None of the compounds detected in downgradient detection monitoring well DM-2 met the criteria for a potential release.
- Available groundwater quality data is generally stable with minor trend fluctuations.
- Groundwater flow direction, gradient, and velocity is consistent with historical events.
- Bioremediation of Therminol-impacted soil continues in LTU bays 1 and 2.

All data currently indicates compliance with the discharge requirements contained in COC S&W-6 and the WDR for the GSEP, with exceptions as noted above.

8.0 REFERENCES

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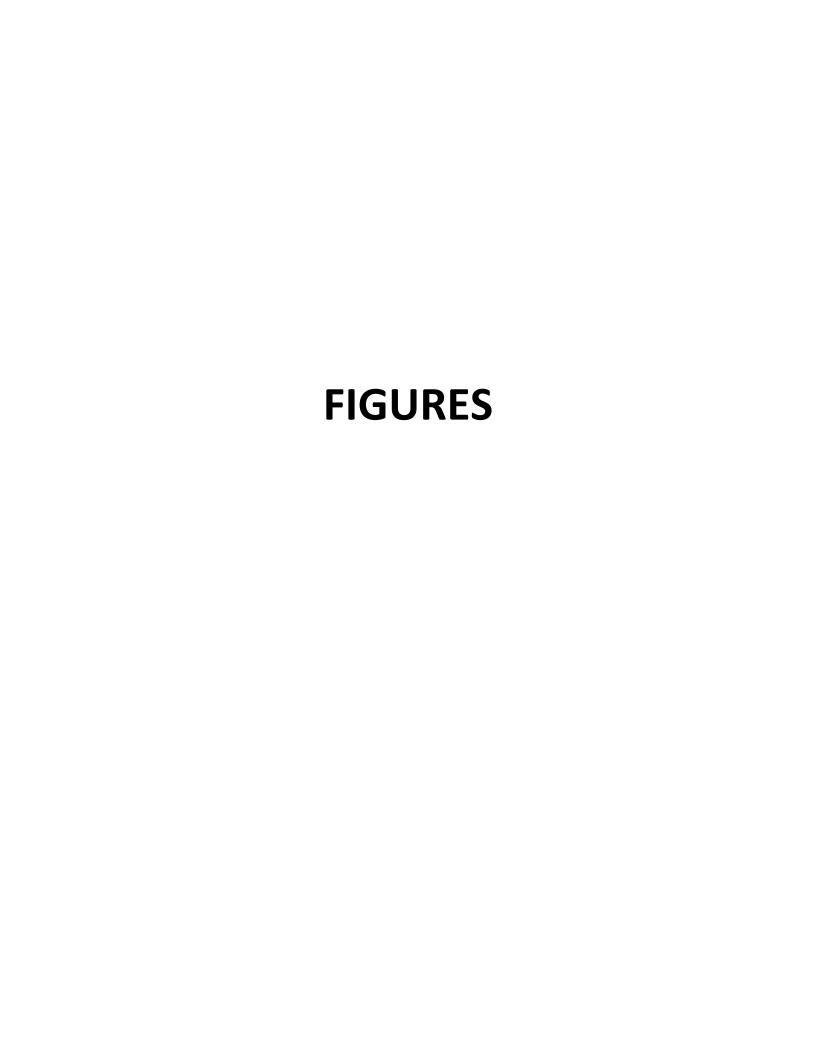
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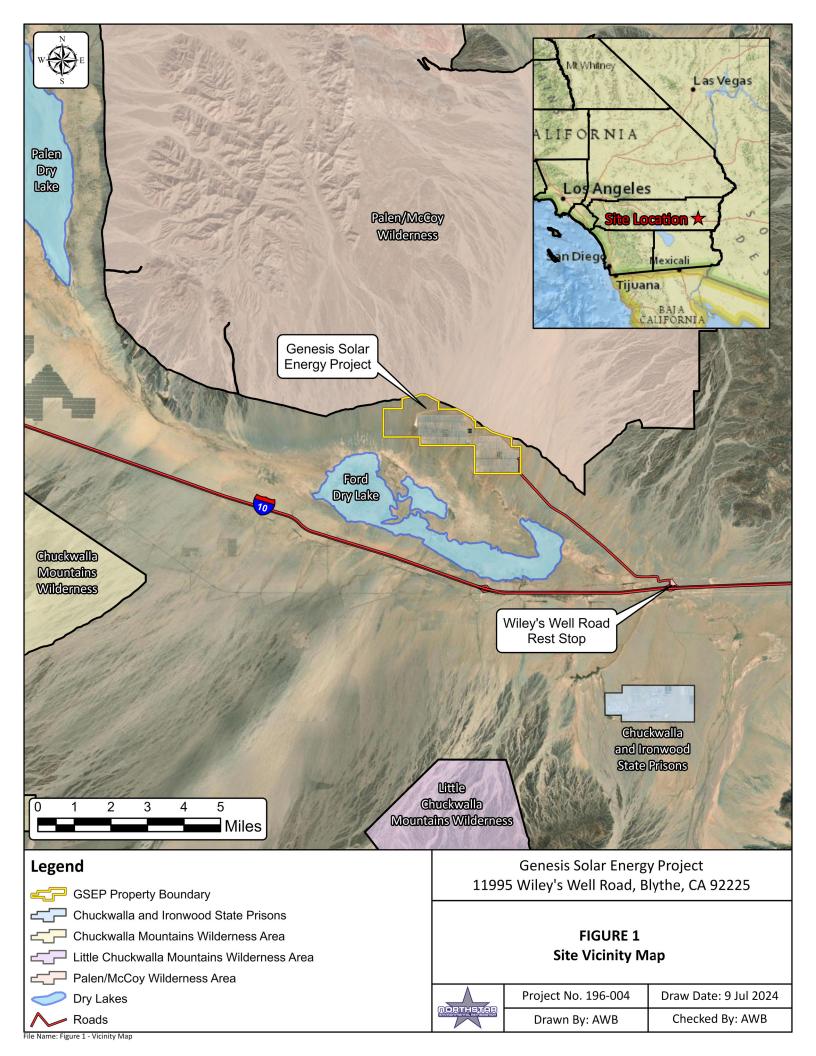
Northstar Environmental Remediation, 2025. 2025 First Semiannual Groundwater Quality Monitoring Report, Genesis Solar Energy Project, Riverside County, California. July 11, 2025.

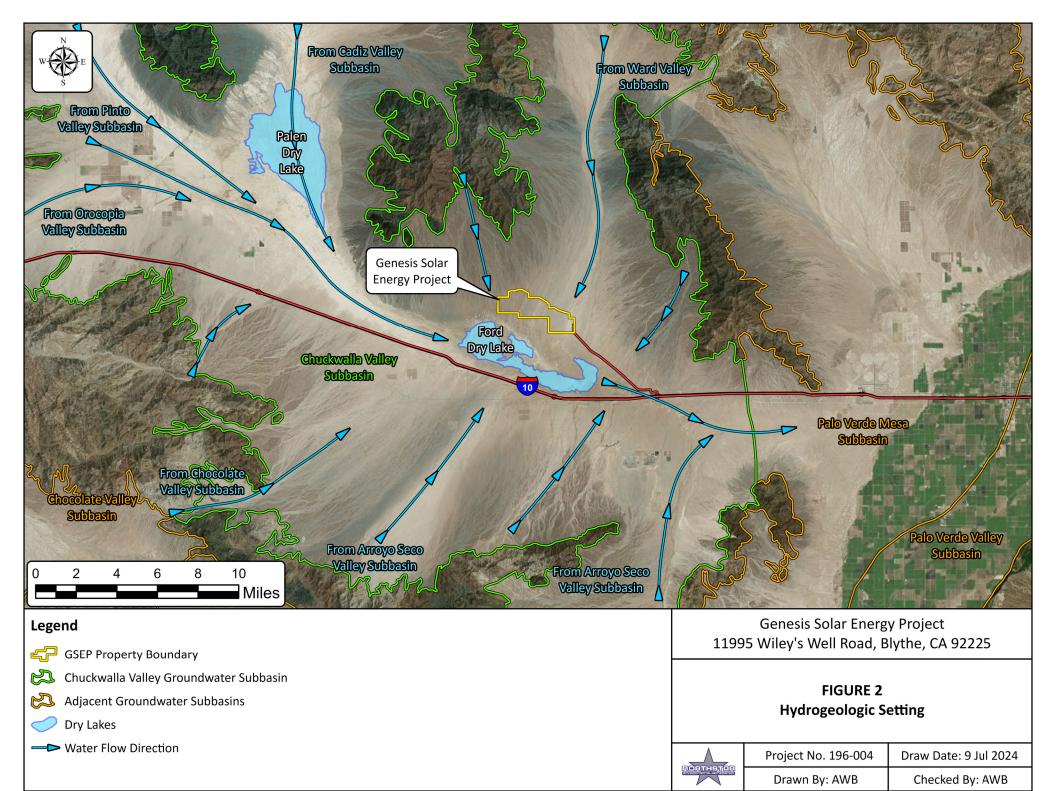
- U.S. Bureau of Reclamation, 1972. *Inland Basins Project, California-Nevada, Summary Report:* Reconnaissance Investigations. 1972.
- U.S. Environmental Protection Agency (USEPA), 2017. Low Stress (low flow) Purging and Sampling Procedure for the Collection of Groundwater Samples from Monitoring Wells. September 19, 2017.

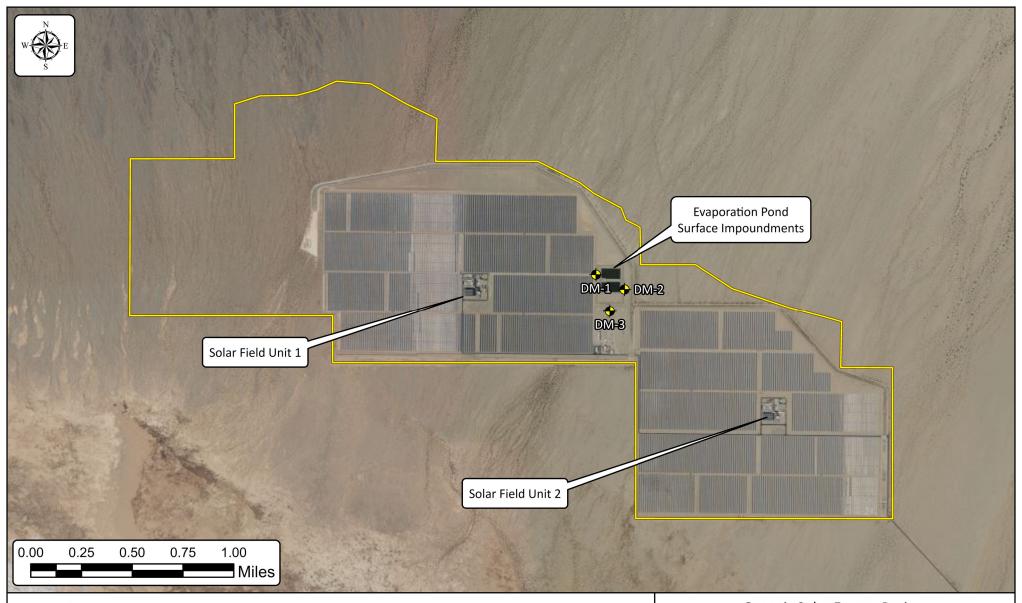
Wilson, R.P., and Owen-Joyce, S.J., 1994. *Method to identify wells that yield water that will be replaced by Colorado River water in Arizona, California, Nevada, and Utah*. U.S. Geological Survey, Water Resources Investigation Report 94-4005.

WorleyParsons, 2012. *Detection Monitoring Well Installation Report*. Genesis Solar Energy Project, March 30, 2012.









Legend

GSEP Property Boundary

Detection Monitoring Wells

Genesis Solar Energy Project 11995 Wiley's Well Road, Blythe, CA 92225

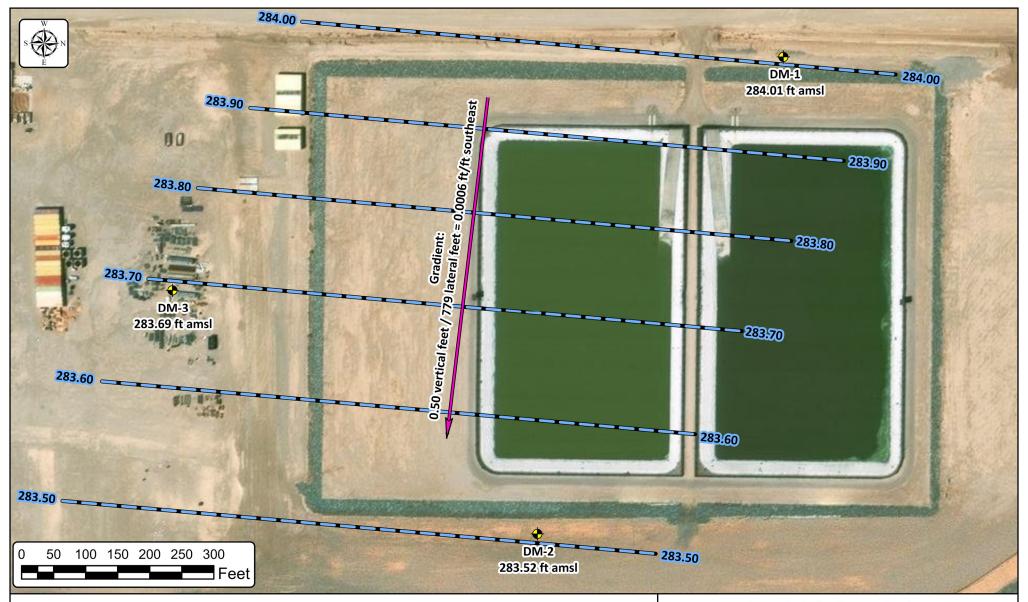
FIGURE 3 Monitoring Area Showing Detection Monitoring Wells



Project No. 196-004 Draw Date: 11 Jun 2024

Drawn By: AWB

Checked By: AWB



Legend

Detection Monitoring Wells

Groundwater Elevation Contour Lines

Groundwater Gradient Direction

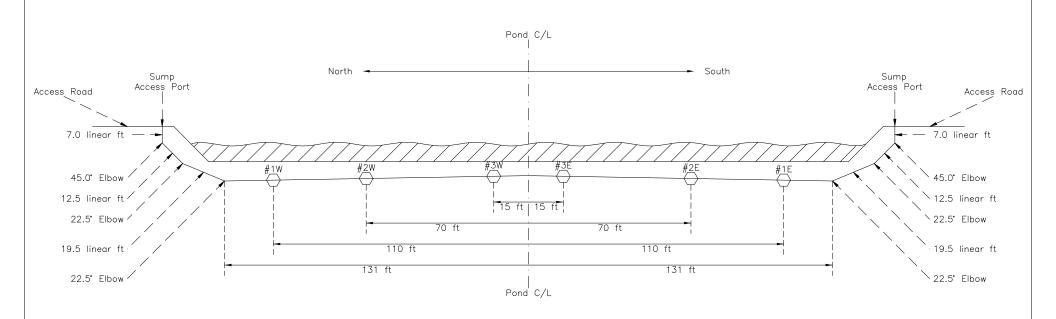
Genesis Solar Energy Project 11995 Wiley's Well Road, Blythe, CA 92225

FIGURE 4 Groundwater Elevation Contour Map June 2025

повтнемая

Project No. 196-004 Draw Date: 11 Jul 2025

Drawn By: AWB Checked By: AWB



Note: All dimensions are approximate and are based upon field observations.

Notes:

1. Probes installed at #1W through #1E are Irrometer/Watermark Model 200SS Moisture Probes.

2. Sump access port is 4-inch diameter HDPE pipe.

3. Moisture probes are tied to 1/4-inch diameter braided steel pull-through cable (total length of approximately 340 feet).

Probes installed in 4-inch diameter perforated pipe with approximate 1 degree slope away from C/L.
 Moisture probes furnished with two leads for direct read by Watermark Model 30 KTCD-NL meter.





Genesis Solar Energy Project	Project Number 196-004-05
	Drawn/Checked By AWB
Northstar Environmental Remediation	Date Drawn 01/13/2023
	Figure Number Figure 5

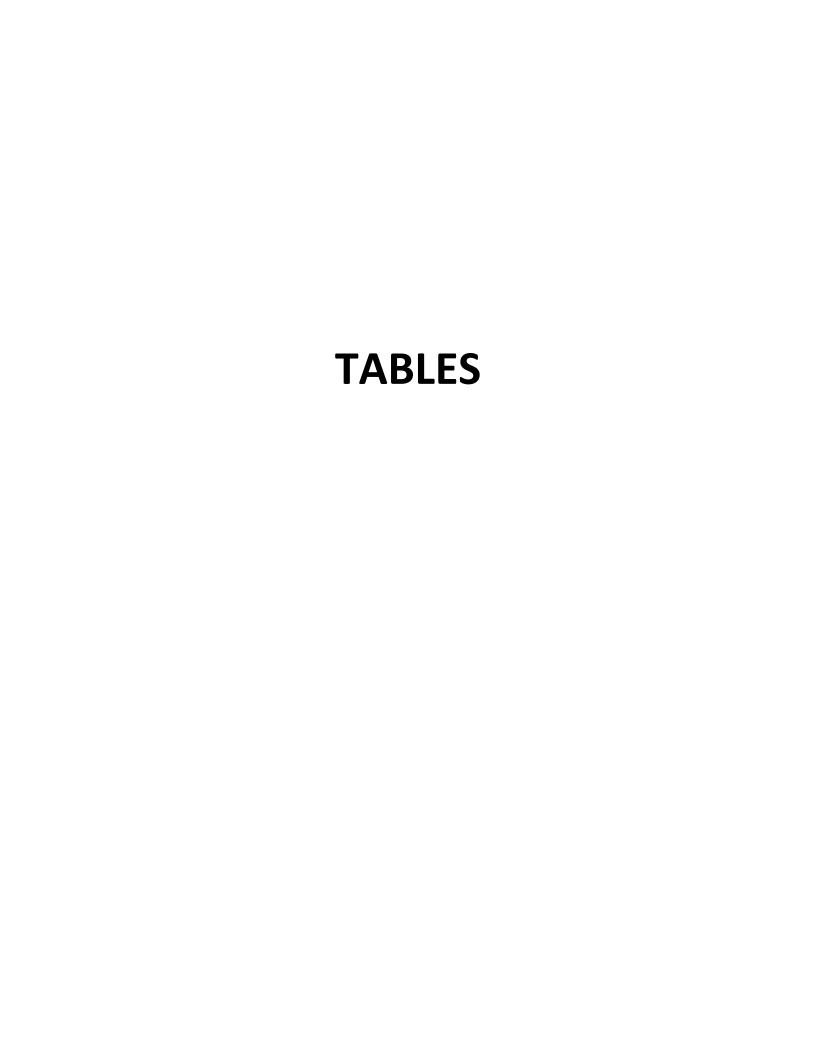


TABLE 1

DETECTION MONITORING WELL DETAILS

Genesis Solar Energy Project, Riverside County, California

Well ID	Other Name	Owner Installation Date Use/Status		Use/Status	Diameter (inches) Surface Elevation (feet amsl)		Top Of Casing Elevation (feet amsl) Well Depth (feet bgs)		Screened Interval (feet bgs)	Geologic Unit
			WELLS INCLUD	ED IN THE GROUNDWA	ATER MONITO	RING PROGRAM				
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	1-3 Detection Monitoring Well 3 Genesis Solar, LLC		2/20/2012 Monitoring / Active		4		388.34	120	100 to 120	Alluvium

Notes:

-- = information is not available or unknown

amsl = above mean sea level

bgs = below ground surface

TABLE 2 GROUNDWATER LEVEL MEASUREMENTS

Genesis Solar Energy Project, Riverside County, California

Well ID	Date	Source	Top of Casing Elevation (feet amsl)	Depth to Water (feet below TOC)	Groundwater Elevation (feet amsl)	Difference from Baseline (feet)	Comments / Use
		WEL		•	N MONITORING PROGRAM		
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 DM-1	12/4/2014 3/26/2015	Northstar Northstar	391.49 391.49	107.03 107.22	284.46 284.27	0.08 -0.11	Monitoring 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-1	6/2/2022	Northstar	391.49	107.25	284.24	-0.14	Monitoring
DM-1	12/1/2022	Northstar	391.49	107.40	284.09	-0.29	Monitoring
DM-1	6/8/2023	Northstar	391.49	107.49	284.00	-0.38	Monitoring
DM-1	12/7/2023	Northstar	391.49	107.41	284.08	-0.30	Monitoring
DM-1	6/6/2024	Northstar	391.49	107.44	284.05	-0.33	Monitoring
DM-1	12/5/2024	Northstar	391.49	107.60	283.89	-0.49	Monitoring
DM-1	6/3/2025	Northstar	391.49	107.48	284.01	-0.37	Monitoring
DM-2	2/27/2012	WorleyParsons	391.32	106.92	284.40	N/A	Monitoring
DM-2	5/24/2012	WorleyParsons	391.32	106.92	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
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 DM-2	6/14/2019 12/5/2019	Northstar Northstar	391.32 391.32	107.55 107.72	283.77 283.60	-0.18 -0.35	Monitoring
DM-2	6/4/2020	Northstar	391.32	107.72	283.87	-0.35 -0.08	Monitoring 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-2	6/2/2022	Northstar	391.32	107.65	283.67	-0.28	Monitoring
DM-2	12/1/2022	Northstar	391.32	107.72	283.60	-0.35	Monitoring
DM-2	6/8/2023	Northstar	391.32	107.82	283.50	-0.45	Monitoring
DM-2	12/7/2023	Northstar	391.32	107.74	283.58	-0.37	Monitoring
DM-2	6/6/2024	Northstar	391.32	107.79	283.53	-0.42	Monitoring
DM-2	12/5/2024	Northstar	391.32	107.80	283.52	-0.43	Monitoring
DM-2	6/3/2025	Northstar	391.32	107.80	283.52	-0.43	Monitoring
DM-3	2/27/2012	WorleyParsons	388.34	103.85	284.49	N/A	Monitoring

TABLE 2 GROUNDWATER LEVEL MEASUREMENTS

Genesis Solar Energy Project, Riverside County, California

W-ILID	D-4-	C	Top of Casing Elevation	Depth to Water	Groundwater Elevation	Difference from Baseline	Comments / Use
Well ID	Date	Source	(feet amsl)	(feet below TOC)	(feet amsl)	(feet)	Comments / Use
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
DM-3	6/2/2022	Northstar	388.34	104.50	283.84	-0.15	Monitoring
DM-3	12/1/2022	Northstar	388.34	104.50	283.84	-0.15	Monitoring
DM-3	6/8/2023	Northstar	388.34	104.68	283.66	-0.33	Monitoring
DM-3	12/7/2023	Northstar	388.34	104.52	283.82	-0.17	Monitoring
DM-3	6/6/2024	Northstar	388.34	104.56	283.78	-0.21	Monitoring
DM-3	12/5/2024	Northstar	388.34	104.70	283.64	-0.35	Monitoring
DM-3	6/3/2025	Northstar	388.34	104.65	283.69	-0.30	Monitoring
					_		

Notes:

amsl = above mean sea level TOC = top of casing

TABLE 3

FIELD DATA COLLECTED DURING THE MOST RECENT GROUNDWATER MONITORING EVENT

Genesis Solar Energy Project, Riverside County, California

			Groundwater Pu	rging	Field Parameters									
Well ID	Date	Rate of Groundwater Discharge (mL/min)	Purging Method	Total Volume Purged (mL)	Temperature (°C)	рН	Conductivity (mS/cm)	Turbidity (NTU)	ORP (mV)	D.O. (mg/L)				
DM-1	6/3/2025	180	Bladder Pump	3,600	31.8	7.75	18.5	39.6	+142	3.29				
DM-2	6/3/2025	138	Bladder Pump	3,600	32.6	7.70	19.0	95.6	+140	3.32				
DM-3	6/3/2025	143	Bladder Pump	3,600	32.7	7.69	18.1	30.4	+105	1.18				

NOTES:

mV = millivolts

mL = milliliters
mL/min = milliliters per minute
mS/cm = millisiemens per centermeter
NTU = Nephelometric Turbidity Units
DO = Dissolved Oxygen
mg/L = milligrams per liter

C = degree Celsius

TABLE 4 SUMMARY OF LABORATORY ANALYTICAL RESULTS Genesis Solar Energy Project, Riverside County, California

																							Total			0:1.9			
			Sulfate	Nitrate											Chromium								Total Dissolved	Specific	рН	Oil & Grease /		Deuterium	Oxvgen-18
			Chloride (SO4)	(NO3)-N	Calcium	Copper	Sodium P	otassium	Iron	Magnesium	Antimony	Arsenic	Barium	Cadmium	(All Species)	Cobalt	Lead	Manganese	Nickel	Selenium	Zinc	Mercury	Solids	Conductance			HTF [†]	(‰ relative	
		Sampling	(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)	(ug/L)	(mg/L)	(us/cm)	Units)	(mg/L)		to VSMOW)	to VSMOW)
Well ID	Date Sampled	Method	EPA Method 3		250	10.10	EPA Meth		10.10	F.C			I		EP/	Method 200.	.8			T		SM7470A		SM2510B	SM4500H	SM1664A	8015B	Isotope Ge	
DM-1 DM-1	5/24/2012 10/24/2012	Low Flow Low Flow	4,600 2,000 5,400 2,300	3.9 <1.1	250 210	<0.10	3,800 3,200	23.0	<0.40	56 58	-	-	-	-	-	-		11	-	-		-	12,000 11,000	16,000 18,000	7.84 7.83	-	-	-65.1 -72.1	-8.8 -8.6
DM-1	5/22/2014	Low Flow	5,300 2,000	-	240	<0.010	3,700	22	<0.040	54	<10	6.2	52	<5.0	<10	<5.0	<5.0	2.5 ^J	4.6 ^J	3.0 ^J	<100	<0.20	11,000	19,000	7.81	<5.0	-	-68.50	-8.51
DM-1	5/22/2014 ¹	Low Flow	5,200 2,000	-	230	<0.010	3,600	22	<0.040	53	<10	5.6	50	<5.0	<10	<5.0	<5.0	<5.0	3.9 ^J	3.1 ^J	<100	<0.20	11,000	19,000	7.74	<5.3	-	-69.47	-8.74
DM-1	12/4/2014	Low Flow	4,800 1,700	2.9	230	<0.050	3,600	21	<0.20	57	<10	7.7	50	<5.0	<10	<5.0	<5.0	<5.0	9.2 ^J	<10	25 ^J	0.15 ^J	11,000	19,000	7.92	<4.7	<0.094	N/A ²	N/A ²
DM-1	6/11/2015	Low Flow	4,600 2,000	3.7 ^J	230	<0.10	3,600	21	<0.40	52	<10	3.8 ^J	36	<5.0	2.9 ^J	<5.0	<5.0	3.6 ^J	6.3 ^J	3.6 ^J	<100	0.26	10,000	19,000	7.81	<4.7	<0.10	-69.2	-8.47
DM-1	12/10/2015	Low Flow	5,300 2,100	4.9 ^J	260	<0.010	3,700	22	<0.040	57	<10	5.6	38	<5.0	<10	<5.0	<5.0	<5.0	<10	5.2 ^J	<100	<0.20	12,000	19,000	7.79	<5.0	<0.094	-70.3	-8.57
DM-1	6/2/2016	Low Flow	4,700 1,800	7.8	230	<0.10	3,800	18	<0.40	57	<2.0	5.1	31	<1.0	1.9 ^J	<1.0	<1.0	0.99 ^J	1.1	3.3	2.5 ^J	<0.20	11,000	20,000	7.87	<4.7	<0.094	-69.87	-8.83
DM-1	11/30/2016	Low Flow	5,200 2,000	<5.5	230	<0.010	3,700	23	<0.040	59	<20	6.7 ^J	31	<10	<20	<10	<10	<10	<10	13 ^J	<200	<0.20	11,000	17,000	7.8	<4.7	<0.093	-70.70	-8.68
DM-1	6/1/2017	Low Flow	4,600 1,900	4.2 ^J	250	<0.10	4,100	21	<1.0	62	<10	4.8 ^J	28	<5.0	5.9 ^J	<5.0	<5.0	<5.0	7.6 ^J	6.9 ^J	<100	<0.20	11,000	16,000	7.9	<5.1	<0.094	-70.30	-8.57
DM-1	12/5/2017	Low Flow	7,130 2,770	12.8	230	0.025	1,100	30	<1.0	59	<1.0	6.2	28	<2.5	3.1	<2.5	<2.5	-	<2.5	5.1	6.6	<0.50	10,000	17,200	7.8	<5.0	<0.10	-69.14	-8.90
DM-1	5/30/2018	Low Flow	5,190 2,030	9.00	270 260	0.096	5,200 4,800	63 33	0.78 ³	64 68	<0.50	5.0	30	<0.50	<5.0	<0.50	<5.0 <10	-	<5.0	5.9	9.5	<0.50	11,000	17,300	7.9 7.7	<5.0 <5.0	<0.10	-71.10 -70.10	-8.57 -8.55
DM-1 DM-1	12/4/2018 6/14/2019	Low Flow Low Flow	8,180 3,280 5,040 1,930	8.76	280	<0.5 0.006	4,800	65	0.35	63	<10 <10	10 <10	31 <10	<10 <10	<10 <10	<10 <10	<10	-	<10 <10	<10 <10	<10 -	<0.50 <0.50	11,000 9,600	17,400 17,700	7.7	<5.0	<0.10 <0.10	-70.10	-8.58
DM-1	12/5/2019	Low Flow	7,460 2,150 J	16.3	250	0.004	4,200	32	<0.20	67	<5.0	0.80 ^J	32	<5.0	2.1	<5.0	<5.0	-	<5.0	0.80	47	<0.50	11,000	17,600	7.7	<5.0	<0.10	-70.10	-8.55
DM-1	6/4/2020	Low Flow	5,500 2,090	8.04	220	0.007	4,300	24	<0.20	53	<5.0	<5.0	33	<5.0	<5.0	<5.0	<5.0	-	<5.0	13	16	<0.50	12,000	17,800	7.3	<5.0	<0.096	-70.30	-8.57
DM-1	12/3/2020	Low Flow	5,530 2,150	8.50	230	<0.005	9,500	35	<0.20	49	<5.0	<5.0	35	<5.0	<5.0	<5.0	<5.0	-	<5.0	0.87	<0.50	<0.50	12,000	18,000	7.9	<5.0	<0.11	-70.20	-8.57
DM-1	6/3/2021	Low Flow	5,520 2,050	8.28	220	<0.50	3,800	<50	<20	57	<10	<10	31	<10	<10	<10	<10	-	<10	17	<10	<0.50	8,100	17,800	7.7	<5.0	<0.095	-70.80	-8.62
DM-1 DM-1	12/2/2021 6/2/2022	Low Flow Low Flow	5,360 1,930 5,530 2,070	8.59 8.70	230 240	<0.50 <2.5	4,200 4,500	<50 <250	<20 <100	58 69	<10 <50	<10 <50	29 <50	<10 <50	<10 <50	<10 <50	<10 <50	-	<10 <50	16 52	<10 <50	<1.0 <1.0	14,000 9,300	17,800 17,800	7.8 7.8	<5.0 <5.0	<0.099 <0.095	-70.10 -70.20	-8.58 -8.62
DM-1	12/1/2022	Low Flow	5,130 1,960	7.36	230	<0.005	4,500	58	<0.20	61	<25	<25	26	<25	<25	<25	<25	-	<25	<25	<25	<1.0	11,000	17,900	7.8	<5.0	<0.096	-70.20	-8.62
DM-1	6/8/2023	Low Flow	5,300 2,000	7.58	240	<0.50	4,100	<50	<20	65	<10	<10	29	<10	<10	<10	<10	-	<10	<10	<10	<1.0	10,000	18,000	7.8	<5.0	<0.097	-69.30	-8.53
DM-1	12/7/2023	Low Flow	5,290 1,830	7.18	230	<0.50	4,500	<50	<20	65	<25	<25	29	<25	<25	<25	<25	-	<25	<25	<25	<1.0	10,000	18,400	8.2	<5.0	<0.100	-69.80	-8.59
DM-1	6/6/2024	Low Flow	5,510 1,920 5,530 1,920	7.81 7.50	230 220	<0.50 <0.50	4,200 4,100	<50 <50	<20 <20	62 60	<5.0 <25	5.6 <25	25 <25	<5.0 <25	<5.0 <25	<5.0 <25	<5.0 <25	-	<5.0 <25	7.2 <25	8.8 <25	<1.0	10,000 11,000	18,600	8.0 8.0	<5.0 <5.0	<0.100 <0.110	-70.10 -69.90	-8.63 -8.57
DM-1 DM-1	12/5/2024 6/3/2025	Low Flow Low Flow	5,440 2,050	7.58	280	<0.50	4,500	<50	<20	68	<10	<10	28	<10	<10	<10	<10	-	<10	11	10	<1.0 <1.0	11,000	18,200 18,300	7.8	<5.0 <5.0	<0.110	-70.40	-8.64
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DM-2	5/24/2012	Low Flow	4,500 2,000	2.9	290	<0.10	3,500	25.0	<0.40	59	-	-	-	-	-	-	-	-	-	-	-	-	13,000	16,000	7.80	-	-	-71.7	-8.8
DM-2	10/23/2012	Low Flow	4,800 2,000	<1.1	470	<0.010	2,600	27.0	<0.040	54	-	-	-	-	-	-	-	110		-	-	-	9,900	16,000	7.72	-	-	-70.9	-8.9
DM-2	5/22/2014	Low Flow	5,100 2,000	-	320	<0.020	3,500	23	0.022	54	<10	4.7	97	<5.0	<10	<5.0	<5.0	59	4.1	3.3	<100	<0.20	11,000	18,000	7.79	<5.1	-	-69.95	-8.72
DM-2	12/4/2014	Low Flow	4,400 1,600	3.0 3.8 ^J	300	<0.050	3,100	20	0.082	55	<10	5.7	140	<5.0	<10	<5.0	<5.0	90	8.4 ³	<10	<100	<0.20	9,900	17,000	7.90	<4.7 <4.7	<0.095	N/A²	N/A ²
DM-2 DM-2	6/11/2015	Low Flow	4,500 2,000 5,400 2,200	<5.5	290 290	<0.10	3,500 3,600	21	<0.40	55 61	<10 <10	4.1 ³ 5.9	110 85	<5.0 <5.0	2.9 ³	<5.0 <5.0	<5.0 <5.0	40 88	4.9 ³ <10	<10 5.5 ^J	<100 <100	<0.20 <0.20	9,600 12,000	18,000	7.92 7.85	<5.0	<0.10 <0.096	-68.2 -69.4	-8.52 -8.43
DM-2	12/10/2015 6/2/2016	Low Flow	4,800 1,900	8.0	280	<0.010	3,800	20	0.002	60	0.51	4.7	62	<1.0	1.5	<1.0	<1.0	62	1.1	3.5	<20	<0.20	12,000	18,000 22,000	7.85	<4.9	<0.090	-69.53	-8.63
DM-2	11/30/2016	Low Flow	5,300 2,200	2.8 ^J	290	<0.010	4,200	28	<0.040	61	<20	5.9 ^J	56	<10	<20	<10	<10	40	<20	18 ^J	<200	<0.20	11,000	17,000	7.8	<4.7	<0.097	-70.20	-8.37
DM-2	6/1/2017	Low Flow	4,800 1,900	3.1 ^J	280	<0.10	4,100	21	<1.0	62	<10	4.4 ^J	52	<5.0	<10	<5.0	<5.0	17	5.2 ^J	5.6 ^J	<100	<0.20	12,000	16,000	7.9	<5.2	<0.097	-70.10	-8.51
DM-2	12/5/2017	Low Flow	4,930 1,960	13.4	250	<0.025	1,400	34	<1.0	62	<1.0	5.5	69	<2.5	3.7	<2.5	<2.5	-	<2.5	5.7	4.5	<0.50	11,000	17,200	7.8	<5.0	<0.10	-67.66	-8.63
DM-2	5/30/2018	Low Flow	6,000 2,280	17.5	300	0.11 ^J	4,800	68	<10	67	<5.0	5.1	51	<0.50	<5.0	<0.50	<0.50	-	<0.50	6.3	<5.0	<0.50	9,900	17,000	7.9	<5.0	<0.11	-69.20	-8.39
DM-2	12/4/2018	Low Flow	5,290 1,770	11.4	240	<0.5	4,900	35	<20	60	<10	<10	57	<10	<10	<10	<10	-	<10	<10	28	<0.50	7,100	13,000	7.8	<5.0	<0.10	-72.30	-8.98
DM-2	6/14/2019	Low Flow	5,240 2,080	11.2	300	<0.005	5,100	68	<0.20	67	<10	<10	<10	<10	<10 2.9 ¹	<10	<10	-	<10	<10 3.2 ^J	-	<0.50	9,300	18,000	7.3	<5.0	<0.10	-70.10	-8.50
DM-2 DM-2	12/5/2019 6/4/2020	Low Flow	7,680 2,330 ^J 5,580 2,240	21.2 10.4	310 280	0.007	4,400 4,100	30 41	<0.20	65 55	<5.0 <5.0	<5.0 <5.0	50 46	<5.0 <5.0	<5.0	<5.0 <5.0	<5.0 <5.0	-	<5.0 <5.0	9.8	76 24	<0.50 <0.50	10,000 11,000	17,000 18,100	7.6 7.4	<5.0 <5.0	<0.10 <0.096	-70.00 -69.90	-8.48 -8.47
DM-2	12/3/2020	Low Flow	5,730 2,340	9.46	250	<0.005	11,000	34	<0.20	51	<5.0	<5.0	49	<5.0	<5.0	<5.0	<5.0	-	<5.0	0.94	<0.50	<0.50	10,000	18,000	7.8	<5.0	<0.11	-70.10	-8.50
DM-2	6/3/2021	Low Flow	5,610 2,210	7.85	230	<0.50	3,800	<50	<20	58	<10	<10	45	<10	<10	<10	<10	-	<10	16	<10	<0.50	9,000	18,200	7.6	<5.0	<0.092	-69.90	-8.50
DM-2	12/2/2021	Low Flow	5,470 2,100	10.0	270	<0.50	4,500	<50	<20	63	<10	<10	44	<10	<10	<10	<10	-	<10	16	<10	<1.0	13,000	18,200	7.8	<5.0	<0.095	-69.50	-8.47
DM-2 DM-2	6/2/2022 12/1/2022	Low Flow	5,860 2,160 5,450 2,180	9.45	240 250	<2.5 <0.005	4,200 4,700	<250 57	<100 <0.20	67 65	<50 <25	<50 <25	<50 37	<50 <25	<50 <25	<50 <25	<50 <25	-	<50 <25	53 <25	<50 <25	<1.0 <1.0	9,300 10,000	18,200 18,300	7.7 7.8	<5.0 <5.0	<0.093 <0.098	-69.60 -69.50	-8.51 -8.49
DM-2	6/8/2023	Low Flow	5,470 2,190	9.73	300	<0.50	4,800	<50	<20	85	<10	<10	37	<10	<10	<10	<10	-	<10	<10	<10	<1.0	6,800	18,300	7.6	<5.0	<0.100	-70.00	-8.51
DM-2	12/7/2023	Low Flow	5,390 1,930	6.21	240	<0.50	4,300	<50	<20	66	<25	<25	40	<25	<25	<25	<25	-	<25	<25	<25	<1.0	11,000	18,900	7.9	<5.0	<0.100	-69.60	-8.49
DM-2	6/6/2024	Low Flow	4,910 2,110	8.84	240	<0.50	4,100	<50	<20	64	<5.0	6.1	35	<5.0	<5.0	<5.0	<5.0	-	<5.0	8.6	13	<1.0	10,000	19,000	7.9	<5.0	<0.090	-69.60	-8.49
DM-2	12/5/2024 6/3/2025	Low Flow	5,670 2,060 5,490 2,210	9.72	250 290	<0.50 <0.50	4,300 4,400	<50 <50	<20 <20	67 67	<25 <10	<25 <10	36 37	<25 <10	<25 <10	<25 <10	<25 <10	-	<25 <10	<25 12	<25 <10	<1.0 <1.0	10,000 12,000	18,200 18,700	7.9 7.7	<5.0 <5.0	<0.100 <0.099	-69.10 -70.30	-8.49 -8.67
DM-2	0/3/2023	Low Flow	3,430 2,210	10.20	250	\U.3U	4,400	\J U	\ 20	07	\10	\10	3/	~10	~10	\10	\10	-	<10	12	\10	\1.0	12,000	10,700	7.7	\3.0	\U.U33	-70.30	-0.07
DM-3	5/24/2012	Low Flow	4,600 2,000	<2.2	220	<0.10	3,500	20.0	<0.40	51	-	-	-	-	-	-	-	-	-	-	-	-	12,000	16,000	7.83	-	-	-71.4	-8.9
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	7.83	-	-	-72.6	-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	<5.0	10	<10	<100	<0.20	11,000	19,000	7.66	<4.9	-	-68.86	-8.52
DM-3	12/5/2014	Low Flow	4,900 1,800	1.8	230	<0.050	3,600	20	<0.20	56	<10	16	18	<5.0	<10	<5.0	<5.0	<5.0	9.6 ³	<10	<100	<0.20	11,000	18,000	7.82	<4.7	<0.099	N/A ²	N/A ²
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	<5.0	4.5	<10	<100	<0.20	9,800	18,000	7.75	<4.9	<0.10	-69.6	-8.90
DM-3 DM-3	12/11/2015	Low Flow	5,100 2,200	<5.5 7.1	250	0.0057	3,500 3,700	19 17	<0.040	51	<10	17	21	<5.0	<10 0.66 ^J	<5.0	<5.0	<5.0 0.64 ^J	<10 0.88 ^J	3.1 ³	<100	<0.20	11,000	18,000	7.79 7.86	<5.0 <4.7	<0.094	-70.6 -60.20	-8.73 -8.75
DIVI-3	6/3/2016 12/2/2016	Low Flow Low Flow	4,700 1,900 4,900 2,100	<5.5	220 240	<0.10 0.0052 ^J	4,100	23	<0.40	53 56	<2.0 <10	14 16	16 18	<1.0 <5.0	<10	<1.0 <5.0	<1.0 <5.0	<5.0	<10	5.6 ^J	5.1 [']	<0.20 <0.20	11,000 11,000	20,000 17,000	7.86	<4.7	<0.093 <0.097	-69.29 -72.20	-8.75 -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	<5.0	3.9 ^J	2.7 ^J	<100	<0.20	11,000	16,000	7.8	<5.1	<0.097	-72.20	-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	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

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TABLE 4 SUMMARY OF LABORATORY ANALYTICAL RESULTS Genesis Solar Energy Project, Riverside County, California

																								Total			Oil &			
				Sulfate	Nitrate											Chromium								Dissolved	Specific	pН	Grease /		Deuterium	Oxygen-18
			Chloride	(SO4)	(NO3)-N	Calcium	Copper	Sodium	Potassium	Iron I	Magnesium	Antimony	Arsenic	Barium	Cadmium	(All Species)	Cobalt	Lead	Manganese	Nickel	Selenium	Zinc	Mercury	Solids	Conductance		HEM	HTF [†]	(‰ relative	, , ,
		Sampling	(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)	(ug/L)	(mg/L)	(us/cm)	Units)	(mg/L)	(mg/L)	to VSMOW)	
Well ID	Date Sampled	Method		Method 3		(1116/ -)	(1116/ -)		ethod 200.7	(1116/ -)	(1116/ -/	(46/ -	(46/ -)	(46/ -)	(46/2)		Method 200		(46/2)	(46/ -/	(46/2)	(48/ -)	SM7470A	SM2540C	SM2510B	SM4500H	SM1664A	8015B	Isotope Geo	,
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	<5.0	.o <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	7.7	<5.0	<0.10	-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	<5.0	20	<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	17	18	<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
DM-3	6/2/2022	Low Flow	5,570	2,110	2.82	240	<2.5	4,500	<250	<100	59	<50	<50	<50	<50	<50	<50	<50	-	<50	55	50	<1.0	8,500	17,400	7.8	<5.0	<0.090	-70.50	-8.71
DM-3	12/1/2022	Low Flow	5,300	2,110	3.11	210	<0.005	4,400	55	<0.20	56	<25	<25	<25	<25	<25	<25	<25	-	<25	<25	<25	<1.0	9,900	17,600	7.8	<5.0	<0.099	-70.50	-8.71
DM-3	6/8/2023	Low Flow	5,230	2,100	2.61	240	<0.50	4,200	<50	<20	66	<10	16	17	<10	<10	<10	<10	-	<10	<10	<10	<1.0	9,800	17,600	7.7	<5.0	<0.099	-71.10	-8.76
DM-3	12/7/2023	Low Flow	5,300	1,940	2.65	220	<0.50	4,100	<50	<20	60	<25	<25	<25	<25	<25	<25	<25	-	<25	<25	<25	<1.0	10,000	18,100	8.0	<5.0	<0.099	-71.50	-8.76
DM-3	6/6/2024	Low Flow	4,650	2,060	3.01	220	<0.50	4,100	<50	<20	59	<5.0	17	15	<5.0	<5.0	<5.0	<5.0	-	<5.0	5.6	6.2	<1.0	9,900	18,200	8.0	<5.0	<0.100	-70.40	-8.67
DM-3	12/5/2024	Low Flow	5,320	1,980	2.62	220	<0.50	4,100	<50	<20	59	<25	<25	<25	<25	<25	<25	<25	_	<25	<25	<25	<1.0	10,000	17,700	8.0	<5.0	<0.095	-71.20	-8.83
DM-3	6/3/2025	Low Flow	5,210	2,070	2.21	260	<0.50	4,200	<50	<20	50	<10	16	17	<10	<10	<10	<10	-	<10	11	<10	<1.0	12,000	17,900	7.7	<5.0	<0.096	-71.40	-8.76
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North Pond	6/1/2018	Composite	61,700	21,000	0.870	230	<0.015	12,000	430	<0.35	4.6 ^J	<10	470	230	<10	<0.50	<10	<0.50	-	25	<25	62	<0.50	120,000	148,000	9.4	<1.40	<0.095	N/A	N/A
North Pond	12/3/2018	Composite	241,000	18,600	24.3	630	2.9	46,000	8,300	<20	27	<25	1,000	68	<25	<25	<25	<25	-	59	<25	<25	<0.50	400,000	241,000	7.6	<5.00	<0.099	N/A	N/A
North Pond	6/13/2019	Composite	39,800	12,000	<0.500	280	0.038	41,000	<0.10	<0.20	5.7	<10	25	12	<10	<10	<10	<10	-	<10	<10	-	<0.50	72,000	108,000	9.1	<5.00	<0.094	N/A	N/A
North Pond	12/5/2019	Composite	83,000	27,000	<500	380	0.090	43,000	340	<0.20	3.0	<5.0	800	200	<5.0	<50	<50	<5.0	-	<50	<50	4,300	<0.50	120,000	120,000	8.8	<5.00	<0.095	N/A	N/A
North Pond	6/4/2020	Composite	40,900	11,300	27.4	510	3.4	20,000	240	<20	570	<25	560	76	<25	<25	<25	<25	-	<25	38	39	<0.50	70,000	107,000	9.4	<5.00	<0.090	N/A	N/A
North Pond	12/3/2020	Composite	38,000	11,800	7.73	390	<0.5	30,000	250	<20	19	<25	8.7	330	<25	<25	<25	<25	-	<25	0.81	0.81	<0.50	57,000	95,000	8.9	<5.00	<0.10	N/A	N/A
North Pond	6/4/2021	Composite	48,200	15,200	53.1	400	<0.50	31,000	230	<20	12	<25	510	130	<25	<25	<25	<25	-	30	53	<25	<0.50	16,000	119,000	9.4	<5.00	<0.087	N/A	N/A
North Pond	12/2/2021	Composite	57,500	18,600	<50.0	470	<0.50	44,000	300	<20	17	<20	640	170	<20	<20	<20	<20	-	<20	31	<20	<1.0	91,000	142,000	8.9	<5.00	<0.092	N/A	N/A
North Pond	6/2/2022	Composite	86,200	30,400	47.8	<100	<5.0	79,000	<500	<200	<100	<50	940	300	<50	<50	<50	<50	-	<50	89	<50	<1.0	180,000	175,000	8.6	<5.00	<0.098	N/A	N/A
North Pond	12/1/2022	Composite	24,200	8,040	47.8	250	<1.2	21,000	<250	<50	<25	<25	340	170	<25	<25	<25	<25	-	<25	41	56	<1.0	41,000	70,300	8.4	<5.00	<0.100	N/A	N/A
North Pond	6/8/2023	Composite	28,700	7,800	1,910	380	<2.0	23,000	<200	<80	<40	<10	340	280	<10	<10	<10	<10	-	<10	<10	<10	<1.0	46,000	75,500	8.8	<5.00	<0.099	N/A	N/A
North Pond	12/7/2023	Composite	37,200	9,530	<250	390	<2.0	28,000	<200	<80	<40	<25	420	100	<25	<25	<25	<25	-	<25	<25	<25	<1.0	65,000	100,000	9.1	<5.00	<0.100	N/A	N/A
North Pond	6/6/2024	Composite	57,700	17,000	44.6	410	<0.50	4,500	310	<20	16	<50	460	140	<50	<50	<50	<50	-	<50	66	<50	<1.0	110,000	147,000	8.7	<5.00	<0.088	N/A	N/A
North Pond	12/5/2024	Composite	146,000	15,900	82.3	680	<0.50	90,000	930	<20	49	<25	1,100	270	<25	<25	<25	<100	-	<25	62	<25	<1.0	17,000	237,000	7.9	<5.00	<0.084	N/A	N/A
North Pond	6/3/2025	Composite	143,000	47,300	<500	63	<0.50	76,000	1,200	<20	49	<20	1,400	<20	<20	<20	<20	<20	_	20	110	<20	<1.0	340,000	233,000	7.8	<5.00	<0.082	N/A	N/A
South Pond	6/1/2018	Composite	152,000		22.2	27	<0.015	17,000	1,100	<0.35	17	<10	1,100	85	<25	<10	<10	<0.50	-	46	43	79	<0.50	310,000	218,000	8.3	<1.40	<0.090	N/A	N/A
South Pond	12/3/2018	Composite	33,200	8,710	65.1	410	2.8	34,000	420	<20	27	<25	390	310	<25	<25	<25	<25	-	<25	<25	160	<0.50	39,000	61,200	8.9	36.4	<0.097	N/A	N/A
South Pond	6/13/2019	Composite	38,700	10,800	57.2	430	0.064	40,000	<0.10	<0.20	16	<10	28	25	<10	<10	<10	<10	-	<10	<10	-	<0.50	68,000	104,000	9.3	<5.00	<0.097	N/A	N/A
South Pond	12/5/2019	Composite	30,000	6,770	2.17	200	0.041	14,000	160	<0.20	13	<5.0	200	170	<5.0	<5.0	<5.0	<5.0	-	<5.0	<5.0	190	<0.50	35,000	49,700	9.0	<5.00	<0.099	N/A	N/A
South Pond	6/4/2020	Composite	74,600	23,900	14.8	390	4.2	62,000	470	<20	1,100	<25	1,100	360	<25	<25	<25	<25	-	36	68	48	<0.50	130,000	166,000	8.8	<5.00	<0.091	N/A	N/A
South Pond	12/3/2020	Composite	73,700	16,600	10.6	370	<0.5	42,000	480	<20	23	<25	14	290	<25	<25	<25	<25	-	<25	0.73	3.0	<0.50	92,000	150,000	8.6	<5.00	<0.099	N/A	N/A
South Pond	6/4/2021	Composite	91,000	22,300	<50.0	420	<0.50	55,000	620	<20	29	<25	1,100	420	<25	<25	<25	<25	-	56	69	100	<0.50	25,000	183,000	9.0	<5.00	<0.091	N/A	N/A
South Pond	12/2/2021	Composite	24,000	6,560	<50.0	240	<0.50	19,000	150	<20	16	<10	290	200	<10	<10	<10	<20	-	21	18	64	<1.0	38,000	67,500	8.9	<5.00	<0.090	N/A	N/A
South Pond	6/2/2022	Composite	80,200	21,900	45.2	300	<5.0	65,000	<500	<200	100	<50	920	310	<50	<50	<50	<50	-	<50	82	<50	<1.0	140,000	168,000	8.4	<5.00	<0.095	N/A	N/A
South Pond	12/1/2022	Composite	24,000	5,500	<25.0	300	<1.2	20,000	<250	<50	<25	<25	260	210	<25	<25	<25	<25	-	<25	59	60	<1.0	35,000	67,400	8.5	<5.00	<0.100	N/A	N/A
South Pond	6/8/2023	Composite	25,800	5,600	959	270	<2.0	19,000	<200	<80	<40	<10	280	210	<10	<10	<10	<10	-	<10	12	39	<1.0	22,000	66,300	8.2	<5.00	<0.099	N/A	N/A
South Pond	12/7/2023	Composite	17,900	4,040	449	240	<2.0	17,000	<200	<80	<40	<25	250	190	<25	<25	<25	<25	-	<25	<25	170	<1.0	35,000	59,500	9.3	<5.00	<0.100	N/A	N/A
South Pond	6/6/2024	Composite	53,600	11,800	44.7	460	<0.50	4,000	340	<20	30	<50	540	390	<50	<50	<50	<50	-	<50	52	<50	<1.0	110,000	142,000	9.1	<4.47	<0.092	N/A	N/A
South Pond	12/5/2024	Composite	39,600	10,400	104	510	<0.50	48,000	400	<20	36	<25	500	290	<25	<25	<25	<50	-	<25	58	<25	<1.0	2,800	113,000	9.2	<5.00	<0.093	N/A	N/A
South Pond	6/3/2025	Composite	43,300	13,200	<500	380	<0.50	22,000	270	<20	24	<10	500	290	<10	<10	<10	<10	-	<10	45	<10	<1.0	97,000	127,000	9.4	<5.00	<0.096	N/A	N/A

NOTES:

mg/L = milligrams per liter

ug/L = micrograms per liter

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
- 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

2 - Analytical results not available at time of reporting due to laboratory equipment failure.

Analytical data shaded grey is a monitored Contaminant of Concern as defined in the Waste Discharge Requirements, Condition 79, Page 16

TABLE 5
SUMMARY OF POND DRAINAGE SUMP DATA
Genesis Solar Energy Project, Riverside County, California

				North Pond	l k						South Pond	i k			
Date of Reading	#1W	#2W	#3W	#1E	#2E	#3E	Totalizer	#1W	#2W	#3W	#1E	#2E	#3E	Totalizer	Comments
1st Qtr 2014	199	199	199	199	199	199	-	199	199	199	199	199	199	-	All probes are dry
2nd Qtr 2014	199	199	199	199	199	199	-	199	199	199	199	199	199	-	
3rd Qtr 2014	199	199	199	199	199	199	-	199	199	199	199	199	199	-	
12/05/2014	199	199	199	199	199	199	-	199	199	199	199	199	199	-	
03/26/2015	199	199	199	199	199	199	-	199	199	199	199	199	199	-	
06/12/2015	133	199	199	199	199	199	-	199	199	199	199	199	199	-	
09/03/2015	78	199	199	199	199	199	-	199	199	199	199	199	199	-	
09/15/2015	67	199	199	199	199	199	-	199	199	199	199	199	199	-	
12/10/2015	0	75	199	199	199	199	-	199	199	199	199	199	199	-	Sump pumps turned on - no water
03/01/2016	6	101	199	199	199	199	-	199	199	199	199	199	199	-	
06/02/2016	4	80	199	199	199	199	-	199	199	199	199	199	199	-	
09/01/2016	0	42	146	199	175	105	-	199	199	199	199	199	199	-	
12/01/2016	0	59	199	199	199	188	1,144.79	199	199	199	183	199	199	24.21	Readings on arrival
12/01/2016	199	199	199	199	199	199	1,144.79	199	199	199	183	199	199	24.21	Readings on departure, new probes in North Pond
03/02/2017	199	199	199	199	199	199	1,144.79	199	199	199	199	199	199	24.21	
06/01/2017	199	199	199	199	199	199	1,144.79	199	199	199	199	199	199	24.21	
09/04/2017	199	199	199	199	199	199	1,695.44	199	199	199	192	178	199	24.21	
12/05/2017	114	165	199	199	179	180	1,695.66	199	199	199	166	199	199	24.21	To date, all totalizer increases are from pump testing
03/06/2018	186	199	199	199	199	199	1,695.66	199	199	199	199	199	199	24.21	
06/01/2018	159	199	199	199	199	199	1,695.66	199	199	199	177	186	199	24.21	
09/12/2018	78	192	199	199	199	192	1,694.83	199	199	199	197	187	199	24.21	
12/03/2018	119	181	199	199	199	199	1,688.26	199	199	199	199	168	199	24.21	
03/08/2019	150	199	199	199	199	199	1,690.80	199	199	199	115	168	199	24.21	
06/13/2019	199	199	199	199	199	199	1,687.19	199	199	199	188	199	199	24.21	
09/08/2019	199	199	199	199	199	199	1,686.68	199	199	199	188	199	199	24.21	
12/05/2019	145	199	199	199	199	199	1,683.78	199	199	199	199	199	199	24.21	
03/17/2020	168	199	199	199	199	199	1,681.87	199	199	199	199	199	199	24.21	
06/04/2020	109	199	199	199	199	199	1,657.23	199	199	199	199	199	199	22.64	
09/16/2020	199	199	199	199	199	199	1,619.72	199	199	199	199	199	199	20.34	
12/03/2020	98	199	199	199	199	199	1,624.77	199	199	199	199	199	199	20.34	
03/23/2021	104	199	199	199	199	199	1,628.91	199	199	199	199	199	199	20.34	
06/04/2021	119	199	199	199	199	199	2,017.91	199	199	199	199	199	199	205.98	Sump pumps tested prior to readings
09/21/2021	89	199	199	199	199	199	2,188.61	199	199	199	199	199	199	197.30	
12/02/2021	97	199	199	199	199	199	2,186.30	199	199	199	199	199	199	N/A ²	
03/30/2022	134	199	199	199	199	199	2,183.93	199	199	199	199	199	199	N/A ²	
06/02/2022	151	199	199	199	199	199	7.48	199	199	199	189	199	199	7.48	New pumps and totalizers installed in 2nd quarter
08/04/2022	109	191	199	199	199	105	605.44	199	199	199	188	199	199	7.48	Verification readings following leak reported by NextEra
09/30/2022	105	189	199	199	199	122	605.44	199	199	199	199	199	199	7.48	
12/01/2022	103	179	199	199	197	176	605.55	171	199	199	189	174	199	7.48	
03/29/2023	181	199	199	199	199	199	605.55	199	199	199	199	199	199	7.48	
06/08/2023	56	198	199	199	199	196	605.55	199	199	199	198	199	199	7.48	
09/28/2023	75	153	199	199	199	149	605.55	199	199	199	199	199	199	7.48	Moisture under both western caps
12/07/2023	70	110	199	199	199	98	605.55	199	199	199	167	199	199	7.48	Moisture under north pond, western cap
03/27/2024	199	199	199	199	199	199	607.01	199	199	199	198	199	199	7.48	Moisture under north pond, western cap
06/06/2024	130	199	199	199	199	199	607.01	199	199	199	199	199	199	7.48	No moisture observed under caps
09/24/2024	119	199	199	199	199	199	607.01	199	199	199	199	199	199	7.48	Moisture under north pond, western cap
12/05/2024	199	199	199	199	199	199	607.01	199	199	199	199	199	199	7.48	Moisture under north pond, western cap
03/26/2025	199	199	199	199	199	199	607.01	199	199	199	199	199	199	7.48	No moisture observed under caps
06/03/2025	199	199	199	199	199	199	607.01	199	199	199	199	199	199	7.48	No moisture observed under caps

^{1 -} Readings in centibars, collected with a Watermark 30 KTCD-NL Soil Moisture Meter

^{2 -} Pump totalizer not functioning

APPENDIX A

FIELD DATA SHEETS



GROUNDWATER LEVEL MEASUREMENT FORM

Date: 06/03/2025	Site: Genesis Solar Energy Project	Project No: 196-004-07
------------------	------------------------------------	------------------------

Project: Groundwater Monitoring Program PM: AWB

Measurement Method/Device: Geotech Interface Probe Technicians: AWB/RCD

Weather: Hot, clear

Well No. Date		TOC Reference Elevation (ft)	Depth to Water (ft)	Corrected Water Level Elevation (ft)	Comments	
TW-1	6/3/2025	387.40	88.25	299.15	Manual Measurement	
TW-2	6/3/2025	393.47	125.00	268.47	Manual Measurement	
OBS-1	6/3/2025	388.30	78.20	310.10	Manual Measurement	
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	6/3/2025	388.14	99.65	288.49	Manual Measurement	
23a	6/3/2025	392.10	134.55	257.55	Manual Measurement	
24-1	6/3/2025	389.40	126.80	262.60	Manual Measurement	
24-2	6/3/2025	388.86	124.83	264.03	Manual Measurement	
24-3	6/3/2025	392.04	123.06	268.98	Manual Measurement	
PW-0	6/3/2025	385.64	N/A	N/A	Manual Measurement	
PW-1	6/3/2025	384.43	97.79	286.64	Manual Measurement	
PW-2	6/3/2025	385.15	N/A	N/A	Manual Measurement	
DM-1	6/3/2025	391.49	107.48	284.01	Manual Measurement	
DM-2	6/3/2025	391.32	107.80	283.52	Manual Measurement	
DM-3	6/3/2025	388.34	104.65	283.69	Manual Measurement	

Additional Notes:



GROUNDWATER SAMPLING FIELD FORM

Date: 06/03/2025	Site: Genesis Solar Energy Project	Project No: 196-004-07			
Project: Groundwater Detection Monitoring Program Project I					
Technicians: AWB, RCD		Weather: Hot, clear			

Sampling Method: Low-flow sampling with submersible pump (EPA 2017 protocols) and flow-through cell

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	16:10	107.52	34.7	7.74	18.8	51.0	+147	3.65
Total Depth (ft btoc)	120	16:15	107.52	32.2	7.74	18.6	40.4	+144	3.88
Screen Interval (ft btoc)	100 - 120	16:20	107.50	31.8	7.75	18.5	39.8	+142	3.27
Depth to Water (ft btoc)	107.48	16:25	107.50	31.8	7.75	18.5	39.6	+142	3.29
Depth of Inlet (ft btoc)	115.00								
Discharge Time (sec)	30								
Fill Time (sec)	20								
Cycles per Minute	1.2								
Volume per Cycle (mL)	150								
Pump Rate (mL/min)	180								
Volume Purged (mL)	3,600								
Sample Date	06/03/25								
Sample Time	16:30								

Purge Volume Calculation: Total must exceed tubing volume (1,204 mL) plus drawdown volume (2,460 mL/foot) = 1,254 mL

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	17:30	108.08	34.1	7.70	19.3	111.0	+143	4.30
Total Depth (ft btoc)	120	17:35	108.20	32.3	7.70	19.0	98.0	+141	3.55
Screen Interval (ft btoc)	100 - 120	17:40	108.30	32.3	7.71	19.0	97.0	+140	3.32
Depth to Water (ft btoc)	107.80	17:45	108.35	32.6	7.70	19.0	95.6	+140	3.32
Depth of Inlet (ft btoc)	115.00								
Discharge Time (sec)	28								
Fill Time (sec)	37								
Cycles per Minute	0.9								
Volume per Cycle (mL)	150								
Pump Rate (mL/min)	138								
Volume Purged (mL)	3,600								
Sample Date	06/03/25								
Sample Time	17:50								

Purge Volume Calculation: Total must exceed tubing volume (1,204 mL) plus drawdown volume (2,460 mL/foot) = 1,869 mL

Well No.	DM-3	Time	Water Level	Temp °C	pН	Cond (mS/cm)	Turbidity	ORP	DO
		(5 Min Int)	(ft btoc)	(3%)	(+/- 0.1)	(3%)	(NTUs) (10%)	(mV) (+/- 10)	(mg/L) (10%)
Casing Diameter (in.)	4.0	14:45	104.65	34.6	7.65	18.4	14.8	+94	3.18
Total Depth (ft btoc)	120	14:50	104.65	33.2	7.67	18.2	32.1	+102	1.35
Screen Interval (ft btoc)	100 - 120	14:55	104.65	32.8	7.68	18.1	30.5	+104	1.14
Depth to Water (ft btoc)	104.65	15:00	104.65	32.7	7.69	18.1	30.4	+105	1.18
Depth of Inlet (ft btoc)	115.00								
Discharge Time (sec)	28								
Fill Time (sec)	35								
Cycles per Minute	1.0								
Volume per Cycle (mL)	150								
Pump Rate (mL/min)	143								
Volume Purged (mL)	3,600								
Sample Date	06/03/25								
Sample Time	15:00								

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

APPENDIX B

LABORATORY ANALYTICAL RESULTS MONITORING WELLS AND EVAPORATION PONDS





25 June 2025

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 06/04/25 10:45. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Jeff Lee

Project Manager



Northstar Environmental Remediation Project: Genesis Solar Groundwater

26225 Enterprise CourtProject Number:196-004-07Reported:Lake Forest CA, 92630Project Manager:Arlin Brewster06/25/25 13:31

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
DM-1	T252362-01	Water	06/03/25 16:30	06/04/25 10:45
DM-2	T252362-02	Water	06/03/25 17:50	06/04/25 10:45
DM-3	T252362-03	Water	06/03/25 15:00	06/04/25 10:45
North Pond	T252362-04	Water	06/03/25 14:10	06/04/25 10:45
South Pond	T252362-05	Water	06/03/25 14:00	06/04/25 10:45

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 Page 1 of 21



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

Northstar Environmental Remediation Project: Genesis Solar Groundwater

26225 Enterprise Court Project Number: 196-004-07 Reported: Lake Forest CA, 92630 06/25/25 13:31 Project Manager: Arlin Brewster

DETECTIONS SUMMARY

Sample ID: DM-1	Labora	tory ID:	T252362-01		
		Reporting			
Analyte	Result	Limit	Units	Method	Notes
Barium	28	10	ug/l	200.8	FILT
Calcium	280	50	mg/l	EPA 200.7	FILT
Magnesium	68	10	mg/l	EPA 200.7	FILT
Selenium	11	10	ug/l	200.8	FILT
Zinc	10	10	ug/l	200.8	FILT
Sodium	4500	50	mg/l	EPA 200.7	FILT
Total Dissolved Solids	11000	10	mg/l	TDS by SM2540C	
pН	7.8	0.10	pH Units	SM 4500-H+B	
pH Temperature °C	21		pH Units	SM 4500-H+B	
Specific Conductance (EC)	18300	10.0	mho/cm @25°(SM2510b mod.	
Chloride	5440	500	mg/l	EPA 300.0	
Sulfate as SO4	2050	500	mg/l	EPA 300.0	
Nitrate as NO3	7.58	0.500	mg/l	EPA 300.0	
Nitrate as N	1.71	0.200	mg/l	EPA 300.0	
Sample ID: DM-2	Labora	tory ID:	T252362-02		
		Reporting			
Analyte	Result	Limit	Units	Method	Notes
Barium	37	10	ug/l	200.8	FILT
Calcium	290	50	mg/l	EPA 200.7	FILT
Magnesium	67	10	mg/l	EPA 200.7	FILT
Selenium	12	10	ug/l	200.8	FILT
Sodium	4400	50	mg/l	EPA 200.7	FILT
рН	7.7	0.10	pH Units	SM 4500-H+B	

SunStar Laboratories, Inc.

Total Dissolved Solids

pH Temperature °C

Chloride

Sulfate as SO4

Nitrate as NO3

Nitrate as N

Specific Conductance (EC)

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 Page 2 of 21

12000

18700

22

5490

2210

10.2

2.31

10

10.0

500

500

0.500

0.200

mg/l

mho/cm @25°(

pH Units

mg/l

mg/l

mg/l

mg/l

TDS by SM2540C

SM2510b mod. SM 4500-H+B

EPA 300.0

EPA 300.0

EPA 300.0

EPA 300.0



Northstar Environmental Remediation Project: Genesis Solar Groundwater

26225 Enterprise CourtProject Number:196-004-07Reported:Lake Forest CA, 92630Project Manager:Arlin Brewster06/25/25 13:31

ample ID: DM-3	Laborat	tory ID:	T252362-03		
		Reporting			
Analyte	Result	Limit	Units	Method	Notes
Arsenic	16	10	ug/l	200.8	FILT
Barium	17	10	ug/l	200.8	FILT
Calcium	260	50	mg/l	EPA 200.7	FILT
Magnesium	60	10	mg/l	EPA 200.7	FILT
Selenium	11	10	ug/l	200.8	FILT
Sodium	4200	50	mg/l	EPA 200.7	FILT
pН	7.7	0.10	pH Units	SM 4500-H+B	
Total Dissolved Solids	12000	10	mg/l	TDS by SM2540C	
pH Temperature °C	22		pH Units	SM 4500-H+B	
Specific Conductance (EC)	17900	10.0	mho/cm @25°0	SM2510b mod.	
Chloride	5210	500	mg/l	EPA 300.0	
Sulfate as SO4	2070	500	mg/l	EPA 300.0	
Nitrate as NO3	2.21	0.500	mg/l	EPA 300.0	
Nitrate as N	0.499	0.200	mg/l	EPA 300.0	
ample ID: North Pond	Laborat	tory ID:	T252362-04		
		Reporting			
Analyte	Result	Limit	Units	Method	Notes
Arsenic	1400	20	ug/l	200.8	FILT
Calcium	63	50	mg/l	EPA 200.7	FILT
Magnesium	49	10	mg/l	EPA 200.7	FILT
Nickel	20	20	ug/l	200.8	FILT
Selenium	110	20	ug/l	200.8	FILT
Potassium	1200	50	mg/l	EPA 200.7	FILT
Sodium	76000	500	mg/l	EPA 200.7	FILT
pH	7.8	0.10	pH Units	SM 4500-H+B	
Total Dissolved Solids	340000	10	mg/l	TDS by SM2540C	
	233000	10.0	mho/cm @25°(SM2510b mod.	
Specific Conductance (EC)			pH Units	SM 4500-H+B	
Specific Conductance (EC) pH Temperature °C	22				
	22 143000	10000	mg/l	EPA 300.0	
pH Temperature °C		10000 5000	mg/l mg/l	EPA 300.0 EPA 300.0	
pH Temperature °C Chloride Sulfate as SO4	143000	5000			
pH Temperature °C Chloride Sulfate as SO4	143000 47300	5000	mg/l		

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Jeff Lee, Project Manager Page 3 of 21



Northstar Environmental Remediation Project: Genesis Solar Groundwater

26225 Enterprise CourtProject Number:196-004-07Reported:Lake Forest CA, 92630Project Manager:Arlin Brewster06/25/25 13:31

Sample ID: South Pond	Labora	tory ID:	T252362-05		
		Reporting			
Analyte	Result	Limit	Units	Method	Notes
Arsenic	500	10	ug/l	200.8	FILT
Barium	290	10	ug/l	200.8	FILT
Calcium	380	50	mg/l	EPA 200.7	FILT
Magnesium	24	10	mg/l	EPA 200.7	FILT
Selenium	45	10	ug/l	200.8	FILT
Potassium	270	50	mg/l	EPA 200.7	FILT
Sodium	22000	500	mg/l	EPA 200.7	FILT
pН	9.4	0.10	pH Units	SM 4500-H+B	
Total Dissolved Solids	97000	10	mg/l	TDS by SM2540C	
Specific Conductance (EC)	127000	10.0	mho/cm @25°(SM2510b mod.	
pH Temperature °C	23		pH Units	SM 4500-H+B	
Chloride	43300	10000	mg/l	EPA 300.0	
Sulfate as SO4	13200	5000	mg/l	EPA 300.0	

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Jeff Lee, Project Manager Page 4 of 21



Northstar Environmental Remediation Project: Genesis Solar Groundwater

26225 Enterprise CourtProject Number:196-004-07Reported:Lake Forest CA, 92630Project Manager:Arlin Brewster06/25/25 13:31

DM-1 T252362-01 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		SunStar I	Laboratorio	es, Inc.					
Metals by EPA 200 Series Methods									
Calcium	280	50	mg/l	100	25F0081	06/04/25	06/11/25	EPA 200.7	FIL
Copper	ND	0.50	"	"	"	"	06/10/25	"	FIL
Iron	ND	20	"	"	"	"	"	**	FIL
Magnesium	68	10	"	**	"	**	"	**	FIL
Potassium	ND	50	"	"	"	"	"	**	FIL
Sodium	4500	50	"	"	"	**	06/11/25	11	FIL
Antimony	ND	10	ug/l	20	25F0080	"	06/16/25	200.8	FILT, R-0
Arsenic	ND	10	"	"	"	"	"	**	FILT, R-0
Barium	28	10	"	**	"	**	"	**	FIL
Cadmium	ND	10	"	"	"	"	"	11	FILT, R-0
Chromium	ND	10	"	"	"	**	"	"	FILT, R-0
Cobalt	ND	10	"	"	"	**	"	"	FILT, R-0
Lead	ND	10	"	"	17	**	II	"	FILT, R-0
Nickel	ND	10	"	"	17	**	IF	**	FILT, R-0
Selenium	11	10	"	"	"	"		"	FIL
Zinc	10	10	"	"	"	"	"	"	FIL
Cold Vapor Extraction EPA 7470/7471									
Mercury	ND	1.0	ug/l	1	25F0064	06/04/25	06/06/25	EPA 7470A Water	
Conventional Chemistry Parameters by A	PHA/EPA/ASTN	1 Methods							
Oil & Grease	ND	5.00	mg/l	1	25F0077	06/10/25	06/10/25	EPA 1664B	
Specific Conductance (EC)	18300	10.0	umho/cm @25°C	"	25F0100	06/05/25	06/05/25	SM2510b mod.	
pH	7.8	0.10	1	"	25F0075	06/04/25	06/05/25	SM 4500-H+B	
pH Temperature °C	21		"	"	"	"	"	"	
Total Dissolved Solids	11000	10	mg/l	11	25F0153	06/09/25	06/10/25	TDS by SM2540C	

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Jeff Lee, Project Manager Page 5 of 21



Northstar Environmental Remediation Project: Genesis Solar Groundwater

26225 Enterprise CourtProject Number:196-004-07Reported:Lake Forest CA, 92630Project Manager:Arlin Brewster06/25/25 13:31

DM-1 T252362-01 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes			
	SunStar Laboratories, Inc.											
Anions by EPA Method 300.0												
Chloride	5440	500	mg/l	100	25F0079	06/04/25	06/04/25	EPA 300.0				
Sulfate as SO4	2050	500	"	"	**	**	II .	n				
Nitrate as NO3	7.58	0.500	"	1	**	"	06/04/25	n				
Nitrate as N	1.71	0.200	"	"	**	**	11	Ħ				

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Northstar Environmental Remediation Project: Genesis Solar Groundwater

26225 Enterprise CourtProject Number:196-004-07Reported:Lake Forest CA, 92630Project Manager:Arlin Brewster06/25/25 13:31

DM-2 T252362-02 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		SunStar I	aboratori	es, Inc.					
Metals by EPA 200 Series Methods									
Calcium	290	50	mg/l	100	25F0081	06/04/25	06/11/25	EPA 200.7	FILT
Copper	ND	0.50	"	**	**	**	06/10/25	**	FILT
Iron	ND	20	"	"	**	"	06/10/25	**	FILT
Magnesium	67	10	"	**	**	"	**	tt	FILT
Potassium	ND	50	"	"	"	"	11	**	FILT
Sodium	4400	50	"	"	**	"	06/11/25	**	FILT
Antimony	ND	10	ug/l	20	25F0080	"	06/16/25	200.8	FILT, R-01
Arsenic	ND	10	"	**	**	"	**	"	FILT, R-01
Barium	37	10	"	"	**	"	III	17	FILT
Cadmium	ND	10	"	"	**	**	H	**	FILT, R-01
Chromium	ND	10	"	"	**	**	H .	**	FILT, R-01
Cobalt	ND	10	"	"	**	Ħ	n	**	FILT, R-01
Lead	ND	10	n .	11	**	**	11	**	FILT, R-01
Nickel	ND	10	"	11	**	**	11	**	FILT, R-01
Selenium	12	10	n	"	**	"	**	tt	FILT
Zinc	ND	10	"	11	11	"	"	"	FILT, R-01
Cold Vapor Extraction EPA 7470/7471									
Mercury	ND	1.0	ug/l	1	25F0064	06/04/25	06/06/25	EPA 7470A Water	
Conventional Chemistry Parameters by AI	PHA/EPA/AST	M Methods							
Oil & Grease	ND	5.00	mg/l	1	25F0077	06/10/25	06/10/25	EPA 1664B	
Specific Conductance (EC)	18700	10.0	umho/cm @25°C	11	25F0100	06/05/25	06/05/25	SM2510b mod.	
рН	7.7	0.10	pH Units	"	25F0075	06/04/25	06/05/25	SM 4500-H+B	
pH Temperature °C	22		"	11	**	"	11	Ħ	
Total Dissolved Solids	12000	10	mg/l	"	25F0153	06/09/25	06/10/25	TDS by SM2540C	

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Jeff Lee, Project Manager Page 7 of 21



Northstar Environmental Remediation Project: Genesis Solar Groundwater

26225 Enterprise CourtProject Number: 196-004-07Reported:Lake Forest CA, 92630Project Manager: Arlin Brewster06/25/25 13:31

DM-2 T252362-02 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes		
SunStar Laboratories, Inc.											
Anions by EPA Method 300.0											
Chloride	5490	500	mg/l	100	25F0079	06/04/25	06/04/25	EPA 300.0			
Sulfate as SO4	2210	500	"	**	**	**	"	**			
Nitrate as NO3	10.2	0.500	"	1	"	"	06/04/25	**			
Nitrate as N	2.31	0.200	**	"	**	**	"	"			

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Northstar Environmental Remediation Project: Genesis Solar Groundwater

26225 Enterprise CourtProject Number: 196-004-07Reported:Lake Forest CA, 92630Project Manager: Arlin Brewster06/25/25 13:31

DM-3 T252362-03 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		SunStar I	aboratori	es, Inc.					
Metals by EPA 200 Series Methods									
Calcium	260	50	mg/l	100	25F0081	06/04/25	06/11/25	EPA 200.7	FILT
Copper	ND	0.50	"	**	**	"	06/10/25	**	FILT
Iron	ND	20	"	"	"	"	"	**	FILT
Magnesium	60	10	"	"	**	"	H	**	FILT
Potassium	ND	50	"	"	"	"	H	**	FILT
Sodium	4200	50	"	"	"	"	06/11/25	**	FILT
Antimony	ND	10	ug/l	20	25F0080	"	06/16/25	200.8	FILT, R-01
Arsenic	16	10	"	"	**	"	H	**	FILT
Barium	17	10	"	"	"	"	H	**	FILT
Cadmium	ND	10	"	"	"	"	"	**	FILT, R-01
Chromium	ND	10	"	**	"	"	H	**	FILT, R-01
Cobalt	ND	10	"	"	"	"	H .	**	FILT, R-01
Lead	ND	10	"	"	11	17	H	"	FILT, R-01
Nickel	ND	10	"	"	"	"	n	"	FILT, R-01
Selenium	11	10	"	"	"	"	n	**	FILT
Zine	ND	10	**	11	tt.	n	"	**	FILT, R-01
Cold Vapor Extraction EPA 7470/7471									
Mercury	ND	1.0	ug/l	1	25F0064	06/04/25	06/06/25	EPA 7470A Water	
Conventional Chemistry Parameters by AP	HA/EPA/AST	M Methods							
Oil & Grease	ND	5.00	mg/l	1	25F0077	06/10/25	06/10/25	EPA 1664B	
Specific Conductance (EC)	17900	10.0	umho/cm @25°C	n	25F0100	06/05/25	06/05/25	SM2510b mod.	
pH	7.7	0.10	pH Units	n	25F0075	06/04/25	06/05/25	SM 4500-H+B	
pH Temperature °C	22		**	"	**	**	H.	**	
Total Dissolved Solids	12000	10	mg/l	"	25F0153	06/09/25	06/10/25	TDS by SM2540C	

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Northstar Environmental Remediation Project: Genesis Solar Groundwater

26225 Enterprise CourtProject Number:196-004-07Reported:Lake Forest CA, 92630Project Manager:Arlin Brewster06/25/25 13:31

DM-3 T252362-03 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes	
SunStar Laboratories, Inc.										
Anions by EPA Method 300.0										
Chloride	5210	500	mg/l	100	25F0079	06/04/25	06/05/25	EPA 300.0		
Sulfate as SO4	2070	500	"	**	**	**	"	Ħ		
Nitrate as NO3	2.21	0.500	"	1	"	"	06/04/25	Ħ		
Nitrate as N	0.499	0.200	n	"	**	"	"	**		

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Northstar Environmental Remediation Project: Genesis Solar Groundwater

26225 Enterprise CourtProject Number: 196-004-07Reported:Lake Forest CA, 92630Project Manager: Arlin Brewster06/25/25 13:31

North Pond T252362-04 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		SunStar I	Laboratorio	es, Inc.					
Metals by EPA 200 Series Methods									
Calcium	63	50	mg/l	100	25F0081	06/04/25	06/11/25	EPA 200.7	FILT
Copper	ND	0.50	"	"	**	"	06/10/25	**	FILT
Iron	ND	20	"	**	**	"	H	**	FILT
Magnesium	49	10	"	"	n	**	n	11	FILT
Potassium	1200	50	"	"	**	17	H.	11	FILT
Sodium	76000	500	"	1000	**	"	06/11/25	**	FILT
Antimony	ND	20	ug/l	40	25F0080	"	06/16/25	200.8	FILT, R-01
Arsenic	1400	20	"	"	**	17	H	11	FILT
Barium	ND	20	"	**	**	"	H	**	FILT, R-01
Cadmium	ND	20	"	**	**	**	n	11	FILT, R-01
Chromium	ND	20	"	"	**	**	11	n	FILT, R-01
Cobalt	ND	20	"	"	"	"	11	**	FILT, R-01
Lead	ND	20	"	"	**	"	n	**	FILT, R-01
Nickel	20	20	"	"	**	17	n	**	FILT
Selenium	110	20	"	"	**	"	H	**	FILT
Zinc	ND	20	"	n	**	u.	"	**	FILT, R-01
Cold Vapor Extraction EPA 7470/7471									
Mercury	ND	1.0	ug/l	1	25F0064	06/04/25	06/06/25	EPA 7470A Water	
Conventional Chemistry Parameters by A	PHA/EPA/AST	M Methods							
Oil & Grease	ND	5.00	mg/l	1	25F0077	06/10/25	06/10/25	EPA 1664B	
Specific Conductance (EC)	233000	10.0	umho/cm @25°C	**	25F0100	06/05/25	06/05/25	SM2510b mod.	
рН	7.8	0.10	pH Units	"	25F0075	06/04/25	06/05/25	SM 4500-H+B	
pH Temperature °C	22		"	"	11	17	11	11	
Total Dissolved Solids	340000	10	mg/l	11	25F0153	06/09/25	06/10/25	TDS by SM2540C	

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Northstar Environmental Remediation Project: Genesis Solar Groundwater

26225 Enterprise CourtProject Number:196-004-07Reported:Lake Forest CA, 92630Project Manager:Arlin Brewster06/25/25 13:31

North Pond T252362-04 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		SunStar L	aboratori	es, Inc.					
Anions by EPA Method 300.0									
Chloride	143000	10000	mg/l	2000	25F0079	06/04/25	06/05/25	EPA 300.0	
Sulfate as SO4	47300	5000	"	1000	**	tt	06/04/25	**	
Nitrate as NO3	ND	500	"	n	Ħ	Ħ	11	Ħ	R-01
Nitrate as N	ND	200	"	"	**	**	"	"	R-01

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Northstar Environmental Remediation Project: Genesis Solar Groundwater

26225 Enterprise CourtProject Number: 196-004-07Reported:Lake Forest CA, 92630Project Manager: Arlin Brewster06/25/25 13:31

South Pond T252362-05 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		SunStar I	Laboratori	es, Inc.					
Metals by EPA 200 Series Methods									
Calcium	380	50	mg/l	100	25F0081	06/04/25	06/11/25	EPA 200.7	FILT
Copper	ND	0.50	"	**	"	"	06/10/25	**	FILT
Iron	ND	20	**	**	**	"	H	**	FILT
Magnesium	24	10	**	"	**	**	n	11	FILT
Potassium	270	50	**	"	**	17	H.	11	FILT
Sodium	22000	500	**	1000	**	**	06/11/25	Ħ	FILT
Antimony	ND	10	ug/l	20	25F0080	"	06/16/25	200.8	FILT, R-01
Arsenic	500	10	**	"	**	17	H	11	FILT
Barium	290	10	**	**	**	"	H	**	FILT
Cadmium	ND	10	"	"	"	"	H	**	FILT, R-01
Chromium	ND	10	**	"	**	17	H	11	FILT, R-01
Cobalt	ND	10	"	"	**	17	H	**	FILT, R-01
Lead	ND	10	**	"	"	"	"	**	FILT, R-01
Nickel	ND	10	"	**	**	"	H	**	FILT
Selenium	45	10	**	"	**	**	n	**	FILT
Zinc	ND	10	"	"	"	"	"	"	FILT, R-01
Cold Vapor Extraction EPA 7470/7471									
Mercury	ND	1.0	ug/l	1	25F0064	06/04/25	06/06/25	EPA 7470A Water	
Conventional Chemistry Parameters by Al	PHA/EPA/AST	M Methods							
Oil & Grease	ND	5.00	mg/l	1	25F0077	06/10/25	06/10/25	EPA 1664B	
Specific Conductance (EC)	127000	10.0	umho/cm @25°C	11	25F0100	06/05/25	06/05/25	SM2510b mod.	
pH	9.4	0.10	pH Units	"	25F0075	06/04/25	06/05/25	SM 4500-H+B	
pH Temperature °C	23		**	"	"	"	"	"	
Total Dissolved Solids	97000	10	mg/l	"	25F0153	06/09/25	06/10/25	TDS by SM2540C	

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Jeff Lee, Project Manager Page 13 of 21



Northstar Environmental Remediation Project: Genesis Solar Groundwater

26225 Enterprise CourtProject Number: 196-004-07Reported:Lake Forest CA, 92630Project Manager: Arlin Brewster06/25/25 13:31

South Pond T252362-05 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		SunStar La	aboratori	ies, Inc.					
Anions by EPA Method 300.0									
Chloride	43300	10000	mg/l	2000	25F0079	06/04/25	06/05/25	EPA 300.0	
Sulfate as SO4	13200	5000	"	1000	**	**	06/04/25	Ħ	
Nitrate as NO3	ND	500	"	"	"	**	"	Ħ	R-01
Nitrate as N	ND	200	"	"	"	**	"	Ħ	R-01

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Jeff Lee, Project Manager Page 14 of 21



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

RPD

%REC

Northstar Environmental Remediation Project: Genesis Solar Groundwater

26225 Enterprise Court Project Number: 196-004-07 Reported: Lake Forest CA, 92630 Project Manager: Arlin Brewster 06/25/25 13:31

Reporting

Metals by EPA 200 Series Methods - Quality Control

SunStar Laboratories, Inc.

Spike

Source

I .		reporting		opino	Source		, or can		10.2	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 25F0080 - EPA 3010A										
Blank (25F0080-BLK1)				Prepared: (06/04/25 A	nalyzed: 06	5/16/25			
Antimony	ND	0.50	ug/l							
Arsenic	ND	0.50	"							
Barium	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	"							
Zine	ND	0.50	ıı							
LCS (25F0080-BS1)				Prepared: (06/04/25 A	nalyzed: 06	5/16/25			
Arsenic	23.7	0.50	ug/l	25.0		94.9	85-115			
Barium	21.4	0.50	"	25.0		85.8	85-115			
Cadmium	22.2	0.50	"	25.0		88.6	85-115			
Chromium	22.8	0.50	"	25.0		91.2	85-115			
Lead	22.0	0.50	"	25.0		88.1	85-115			
Matrix Spike (25F0080-MS1)	Sourc	e: T252361-	01	Prepared: (06/04/25 A	nalyzed: 06	5/16/25			
Arsenic	22.0	10	ug/l	25.0	0.600	85.6	70-130			
Barium	35.6	10		25.0	13.2	89.6	70-130			
Cadmium	22.4	10	11	25.0	0.200	88.8	70-130			
Chromium	23.6	10	11	25.0	1.00	90.4	70-130			
Lead	22.4	10	11	25.0	ND	89.6	70-130			
Matrix Spike Dup (25F0080-MSD1)	Sourc	e: T252361-	01	Prepared: (06/04/25 A	nalyzed: 06	6/16/25			
Arsenic	23.4	10	ug/l	25.0	0.600	91.2	70-130	6.17	20	
Barium	36.6	10	"	25.0	13.2	93.6	70-130	2.77	20	
Cadmium	23.2	10	"	25.0	0.200	92.0	70-130	3.51	20	
Chromium	53.2	10	"	25.0	1.00	209	70-130	77.1	20	QM-0
Lead	23.2	10	"	25.0	ND	92.8	70-130	3.51	20	-

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Jeff Lee, Project Manager Page 15 of 21



Northstar Environmental Remediation Project: Genesis Solar Groundwater

26225 Enterprise CourtProject Number:196-004-07Reported:Lake Forest CA, 92630Project Manager:Arlin Brewster06/25/25 13:31

$Metals\ by\ EPA\ 200\ Series\ Methods\ -\ Quality\ Control$

SunStar Laboratories, Inc.

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 25F0081 - EPA 3010A										
Blank (25F0081-BLK1)				Prepared: 0	06/04/25 Aı	nalyzed: 06	/11/25			
Calcium	ND	0.50	mg/l							
Copper	ND	0.005	"							
Iron	ND	0.20	"							
Magnesium	ND	0.10	"							
Potassium	ND	0.50	"							
Sodium	ND	0.50	"							
LCS (25F0081-BS1)				Prepared: 0	06/04/25 Aı	nalyzed: 06	/11/25			
Calcium	2.02	0.50	mg/l	2.00		101	80-120			
Copper	1.94	0.005	"	2.00		96.8	85-115			
Iron	1.96	0.20	"	2.00		98.0	80-120			
Magnesium	1.96	0.10		2.00		98.1	80-120			
Potassium	1.90	0.50	"	2.00		94.8	80-120			
Sodium	2.09	0.50	"	2.00		105	80-120			
Matrix Spike (25F0081-MS1)	Source	ce: T252361-	01	Prepared: 0	06/04/25 Aı	nalyzed: 06	/11/25			
Calcium	11.8	50	mg/l	2.00	ND	589	70-130			QM-07
Copper	2.07	0.50	"	2.00	0.114	97.6	70-130			
Iron	1.65	20		2.00	ND	82.7	70-130			
Magnesium	ND	10		2.00	ND		70-130			QM-07
Potassium	ND	50		2.00	20.7	NR	70-130			QM-07
Sodium	709	50	11	2.00	676	NR	70-130			QM-07
Matrix Spike Dup (25F0081-MSD1)	Source	e: T252361-	01	Prepared: 0	06/04/25 Aı	nalyzed: 06	/11/25			
Calcium	12.0	50	mg/l	2.00	ND	601	70-130	1.98	30	QM-07
Copper	2.29	0.50	н	2.00	0.114	109	70-130	10.4	30	
Iron	0.703	20		2.00	ND	35.1	70-130	80.7	30	QM-07
Magnesium	ND	10	"	2.00	ND		70-130		30	QM-07
Potassium	26.7	50	**	2.00	20.7	298	70-130		30	QM-07
Sodium	723	50	"	2.00	676	NR	70-130	2.01	30	QM-07

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Jeff Lee, Project Manager Page 16 of 21



Northstar Environmental Remediation Project: Genesis Solar Groundwater

26225 Enterprise CourtProject Number: 196-004-07Reported:Lake Forest CA, 92630Project Manager: Arlin Brewster06/25/25 13:31

Cold Vapor Extraction EPA 7470/7471 - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC	RPD	RPD Limit	Notes
,										
Batch 25F0064 - EPA 7470A Water										
Blank (25F0064-BLK1)				Prepared: 0	6/04/25 A	nalyzed: 06	/06/25			
Mercury	ND	1.0	ug/l							
LCS (25F0064-BS1)				Prepared: 0	06/04/25 A	nalyzed: 06	/06/25			
Mercury	6.69	1.0	ug/l	7.50		89.2	80-120			
Matrix Spike (25F0064-MS1)	Sour	ce: T252353-(03	Prepared: 0	06/04/25 A	nalyzed: 06	/06/25			
Mercury	7.16	1.0	ug/l	7.50	ND	95.5	80-120			
Matrix Spike Dup (25F0064-MSD1)	Sour	ce: T252353-()3	Prepared: 0	06/04/25 A	nalyzed: 06	/06/25			
Mercury	7.22	1.0	ug/l	7.50	ND	96.3	80-120	0.834	20	

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Jeff Lee, Project Manager Page 17 of 21



Northstar Environmental Remediation Project: Genesis Solar Groundwater

26225 Enterprise CourtProject Number: 196-004-07Reported:Lake Forest CA, 92630Project Manager: Arlin Brewster06/25/25 13:31

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 25F0075 - General Preparation										
Duplicate (25F0075-DUP1)	Sour	ce: T252361	-01	Prepared: 0)6/04/25 Ai	nalyzed: 06	/05/25			
pH	8.92	0.10	pH Units		8.86			0.675	10	
pH Temperature °C	20.9		"		21.2			1.43	200	
Batch 25F0077 - 418.1 / 5520C&F Mod.										

Blank (25F0077-BLK1)				Prepared & Ana	alyzed: 06/10/25				
Oil & Grease	ND	5.00	mg/l						
LCS (25F0077-BS1)				Prepared & Ana	alyzed: 06/10/25				
Oil & Grease	40.4	5.00	mg/l	39.6	102	78-114			
LCS Dup (25F0077-BSD1)				Prepared & Ana	alyzed: 06/10/25				
Oil & Grease	41.0	5.00	mg/l	39.6	104	78-114	1.47	20	

Batch 25F0100 - General Preparation

Duplicate (25F0100-DUP1)	Source	e: T252362-01	Prepared & Analyzed: 06/05/25			
Specific Conductance (EC)	18300	10.0 umho/cm	18300	0.218	15	
		@25°C				

Batch 25F0153 - General Preparation

Blank (25F0153-BLK1)				Prepared: 06/0	9/25 Analyzed: 06	5/10/25	
Total Dissolved Solids	ND	10	mg/l				
LCS (25F0153-BS1)				Prepared: 06/0	9/25 Analyzed: 06	5/10/25	
Total Dissolved Solids	489	10	mg/l	500	97.8	80-120	

SunStar Laboratories, Inc.

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Jeff Lee, Project Manager Page 18 of 21



Northstar Environmental Remediation Project: Genesis Solar Groundwater

26225 Enterprise CourtProject Number:196-004-07Reported:Lake Forest CA, 92630Project Manager:Arlin Brewster06/25/25 13:31

${\bf Conventional\ Chemistry\ Parameters\ by\ APHA/EPA/ASTM\ Methods\ -\ Quality\ Control}$

SunStar Laboratories, Inc.

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

Batch 25F0153 - General Preparation

·							
Duplicate (25F0153-DUP1)	Source:	T252361-0	01	Prepared: 06/09/25 Analyzed: 06/10/25			
Total Dissolved Solids	1410	10	mg/l	1610	13.5	20	

SunStar Laboratories, Inc.

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Jeff Lee, Project Manager Page 19 of 21



Northstar Environmental Remediation Project: Genesis Solar Groundwater

26225 Enterprise CourtProject Number:196-004-07Reported:Lake Forest CA, 92630Project Manager:Arlin Brewster06/25/25 13:31

Anions by EPA Method 300.0 - Quality Control

SunStar Laboratories, Inc.

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 25F0079 - General Preparation										
Blank (25F0079-BLK1)				Prepared &	Analyzed:	: 06/04/25				
Chloride	ND	5.00	mg/l							
Sulfate as SO4	ND	5.00	11							
Nitrate as NO3	ND	0.500	11							
Nitrate as N	ND	0.200	II							
LCS (25F0079-BS1)				Prepared &	Analyzed:	: 06/04/25				
Chloride	24.3	5.00	mg/l	25.0		97.2	75-125			
Sulfate as SO4	24.2	5.00	11	25.0		96.9	75-125			
Nitrate as NO3	24.2	0.500	"	25.0		96.8	75-125			
Matrix Spike (25F0079-MS1)	Sou	rce: T252362-	01	Prepared &	analyzed:	: 06/04/25				
Chloride	5130	500	mg/l	25.0	5440	NR	75-125			QM-0:
Sulfate as SO4	1940	500	11	25.0	2050	NR	75-125			QM-0:
Nitrate as NO3	32.9	0.500	"	25.0	7.58	101	75-125			
Matrix Spike Dup (25F0079-MSD1)	Sou	rce: T252362-	01	Prepared &	analyzed:	: 06/04/25				
Chloride	5060	500	mg/l	25.0	5440	NR	75-125	1.24	20	QM-0:
Sulfate as SO4	1920	500		25.0	2050	NR	75-125	1.16	20	QM-0:
Nitrate as NO3	32.9	0.500	m	25.0	7.58	101	75-125	0.0943	20	

SunStar Laboratories, Inc.

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Jeff Lee, Project Manager Page 20 of 21



Northstar Environmental Remediation Project: Genesis Solar Groundwater

26225 Enterprise CourtProject Number: 196-004-07Reported:Lake Forest CA, 92630Project Manager: Arlin Brewster06/25/25 13:31

Notes and Definitions

R-01 The Reporting Limit has been raised to account for dilution necessary due to matrix interference.

QM-07 The spike recovery and/or RPD was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable

LCS recovery.

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.

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.

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Jeff Lee, Project Manager Page 21 of 21

Chain of Custody Record

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

Address: 26225 Enterprise Court, Lake Forest, CA 92630 Client: Northstar Environmental Remediation

Phone: 949-274-1719

Project Manager: Arlin Brewster

Date:

Project Name: Genesis Solar Groundwater

Collector: Arlin Brewster Batch #:

Page: 1 of 1

Client Project #: 196-004-07 EDF #: T10000006093

Total # of containers	9	9	9	2	2								
Comments/Preservative				High [] 50/15	→ p				Notes	** Deuterium & Oxygen-18	subcontract has 10 day TAT	C Reporting limits must match	previous reports
Laboratory ID #									28			1	
300.01 - O.008						\top			iers	MAN	NA	plos	rd **
Deuterium, Oxygen-18 (Subcont.)	×	×	×			+	+	++	ntair	XX	X	tion/c	anda
8015M - Therminol (Subcontract)	-	×	×	×	×	+	+	++	0 00	seals	tact?	ondi	: Sta
SM2540C - Total Dis. Solids	-	×	×	×	×	+	+		Total # of containers	ody s	Seals intact? Y/N/NA	o poc	time
SM2510B - Conductivity, Specific	×	×	×	×	×	\dagger	++		70	Chain of Custody seals Y/N/NA	Sea	Received good condition/cold	Turn around time: Standard **
Hd - 0406	×	×	×	×	×	\top	\top	\top		in of		ceiv	aro
7470A - Mercury	×	×	×	×	×		\forall	\top		Cha		Re	Turn
1664 - Oil and Grease	×	×	×	×	×	\top		\top	\top	10			
300.0 - Chloride, Nitrate, Sulfate	×	×	×	×	×				me	40)	me		ше
200.8 - Dissolved Metals: Sb, As, Ba, Cd, Cr, Co, Pb, Ni, Se, Zn (F.F.)	×	×	×	×	×				Date / Time	V	Date / Time		Date / Time
200.7 - Dissolved Metals: Ca, Cu, Na, K, Fe, Mg (FIELD FILTERED)	×	×	×	×	×					S.4.2			
Container	Various	Various	Various	Various	Various				: (signature)	1	: (signature)		r. (signature)
Sample	>	M	×	8	M				Received by:	VC G	Received by:		Received by: (
E E	1630	1750	1500	0/4/	1400				ne	045	ne		ne
Date Sampled	50/8/9	6/3/25	6/3/25	10/3/25	6/3/25				Date / Time	26/m/20	Date / Time		Date / Time
Sample ID	DM-1	DM-2	DM-3	North Pond	South Pond				Relinquished by: (signature)	m for	Relinquished by: (signature)		Relinquished by: (signature)

Pickup

Return to client

Sample disposal Instructions: Disposal @ \$2.00 each _



SAMPLE RECEIVING REVIEW SHEET

Batch/Work Order #:	T252362					
Client Name:	Northstar	Project: Go	enesis .	Solar	Groundur	ater
Delivered by:	Client SunStar Courier	GLS	FedEx	Oth	er	
If Courier, Received by:		Date/Time Cou Received:	_			
Lab Received by:	Dave	Date/Time Lab Received:		6/4/25	: 10):45
Total number of coolers re	eceived: 3 Thermometer ID:	SC-1 Ca	alibration	due: _1	1/19/2025	_
Temperature: Cooler #1	2.4 °C +/- the CF (+ 0.1°C)	= 2.5	°C correc	ted temperat	ture	
Temperature: Cooler #2	2.4 °C +/- the CF (+ 0.1°C)	2.5	°C согтес	ted temperat	ture	
Temperature: Cooler #3	2 4			ted temperat		
Temperature criteria = 5 (no frozen containers)	≤6°C Within cr	riteria?	Yes	□No	□N/A	
If NO:			□No →			
Samples received	on ice?				nformance	e Sheet
If on ice, samples collected?	received same day ☐Yes →	Acceptable	□No → Complet		nformance	e Sheet
Custody seals intact on co	oler/sample		Yes	□No*	N/A	
Sample containers intact			Yes	□No*		
Sample labels match Chair	n of Custody IDs		Yes	□No*		
Total number of container	rs received match COC		Yes	□No*		
Proper containers received	d for analysiss requested on COC		-/·	□No*		
	d for allaryses requested on COC		Yes			
Proper preservative indica	ated on COC/containers for analyses	s requested	Yes	□No*	□N/A	
Complete shipment receiv		emperatures,	_/		□N/A	
Complete shipment receive containers, labels, volume holding times	ated on COC/containers for analyses yed in good condition with correct to es preservatives and within method	emperatures,	Yes Yes		□N/A	6/4/25
Complete shipment receive containers, labels, volume holding times	ated on COC/containers for analyses yed in good condition with correct to es preservatives and within method	emperatures, specified	Yes Yes		□N/A	6/4/25
Complete shipment receive containers, labels, volume holding times * Complete Non-Conformant	ated on COC/containers for analyses yed in good condition with correct to es preservatives and within method	emperatures, specified	Yes Yes		□N/A	6/4/25
Complete shipment receive containers, labels, volume holding times * Complete Non-Conformant	ated on COC/containers for analyses yed in good condition with correct to es preservatives and within method	emperatures, specified	Yes Yes		□N/A	6/4/25

Rev. 03 Date 11/24

Page 1 of _

ANALYTICAL REPORT

PREPARED FOR

Attn: Jeff Lee SunStar Laboratories Inc 25712 Commercentre Drive Lake Forest, California 92630

Generated 6/17/2025 6:12:20 PM

JOB DESCRIPTION

T252362

131415

JOB NUMBER

570-233309-1

Eurofins Calscience 2841 Dow Avenue, Suite 100 Tustin CA 92780

Eurofins Calscience

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Calscience Project Manager.

Authorization

Generated 6/17/2025 6:12:20 PM

Authorized for release by Sandy Tat, Project Manager I Sandy.Tat@et.eurofinsus.com (714)895-5494

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Client: SunStar Laboratories Inc Project/Site: T252362 Laboratory Job ID: 570-233309-1

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Definitions/Glossary

Client: SunStar Laboratories Inc Job ID: 570-233309-1

Project/Site: T252362

Glossary

MQL

NC

ND

Abbreviation	These commonly used abbreviations may or may not be present in this report.
\(\phi \)	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number

NEG Negative / Absent POS Positive / Present

PQL **Practical Quantitation Limit**

Not Calculated

PRES Presumptive QC **Quality Control**

Relative Error Ratio (Radiochemistry) **RER**

Method Quantitation Limit

Reporting Limit or Requested Limit (Radiochemistry) RL

RPD Relative Percent Difference, a measure of the relative difference between two points

Not Detected at the reporting limit (or MDL or EDL if shown)

TEF Toxicity Equivalent Factor (Dioxin) TEQ Toxicity Equivalent Quotient (Dioxin)

TNTC Too Numerous To Count

Case Narrative

Client: SunStar Laboratories Inc

Project: T252362

Job ID: 570-233309-1 Eurofins Calscience

Job Narrative 570-233309-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable.

- Matrix QC may not be reported if insufficient sample is provided or site-specific QC samples were not submitted. In these
 situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise
 specified in the method.
- · Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt

The samples were received on 6/5/2025 12:01 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 time was 5.9°C.

Diesel Range Organics

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

Job ID: 570-233309-1

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Detection Summary

Client: SunStar Laboratories Inc Project/Site: T252362	Job ID: 570-233309-1					
Client Sample ID: T252362-01	Lab Sample ID: 570-233309-1					
No Detections.						
Client Sample ID: T252362-02	Lab Sample ID: 570-233309-2					
No Detections.						
Client Sample ID: T252362-03	Lab Sample ID: 570-233309-3					
No Detections.						
Client Sample ID: T252362-04	Lab Sample ID: 570-233309-4					
No Detections.						
Client Sample ID: T252362-05	Lab Sample ID: 570-233309-5					
No Detections.						

This Detection Summary does not include radiochemical test results.

Eurofins Calscience

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Client Sample Results

Client: SunStar Laboratories Inc Job ID: 570-233309-1

Project/Site: T252362

Method: SW846 8015B - Diesel Range Organics (DRO) (GC)

wetnoa: 544846 8015B - Di -	COCI ITALI	go Orgai	(2110) (1					
Client Sample ID: T252362-01						Lab Samı	ole ID: 570-23	3309-1
Date Collected: 06/03/25 16:30							Matrix:	Water
Date Received: 06/05/25 12:01								
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene, 1,1'-oxybis-	ND		97	ug/L		06/09/25 09:46	06/12/25 22:12	1
1,1'-Biphenyl	ND		97	ug/L		06/09/25 09:46	06/12/25 22:12	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
n-Octacosane (Surr) -	108		53 - 151			06/09/25 09:46	06/12/25 22:12	1
Client Sample ID: T252362-02						Lab Samı	ole ID: 570-23	3309-2
Date Collected: 06/03/25 17:50							Matrix:	Water
Date Received: 06/05/25 12:01								
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene, 1,1'-oxybis-	ND		99	ug/L	_	06/09/25 09:46	06/12/25 22:37	1
1,1'-Biphenyl	ND		99	ug/L		06/09/25 09:46	06/12/25 22:37	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	105		53 - 151			06/09/25 09:46	06/12/25 22:37	1
Client Sample ID: T252362-03						Lab Samı	ole ID: 570-23	3309-3
Date Collected: 06/03/25 15:00							Matrix:	Water
Date Received: 06/05/25 12:01								
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene, 1,1'-oxybis-	ND		96	ug/L	_	06/09/25 09:46	06/12/25 23:02	1
1,1'-Biphenyl	ND		96	ug/L		06/09/25 09:46	06/12/25 23:02	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	110		53 - 151			06/09/25 09:46	06/12/25 23:02	1
Client Sample ID: T252362-04						Lab Samı	ole ID: 570-23	3309-4
Date Collected: 06/03/25 14:10							Matrix:	Water
Date Received: 06/05/25 12:01								
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene, 1,1'-oxybis-	ND		82	ug/L	_	06/09/25 09:46	06/12/25 23:28	1
1,1'-Biphenyl	ND		82	ug/L		06/09/25 09:46	06/12/25 23:28	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	58		53 - 151			06/09/25 09:46	06/12/25 23:28	1
Client Sample ID: T252362-05						Lab Samı	ole ID: 570-23	3309-5
Date Collected: 06/03/25 14:00							Matrix:	Water
Date Received: 06/05/25 12:01	_				_	_		
Analyte		Qualifier	RL	Unit	. <u>D</u>	Prepared	Analyzed	Dil Fac
Benzene, 1,1'-oxybis-	ND		96	ug/L		06/09/25 09:46	06/12/25 23:53	1
1,1'-Biphenyl	ND		96	ug/L		06/09/25 09:46	06/12/25 23:53	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	95		53 - 151			06/09/25 09:46	06/12/25 23:53	1

2

Surrogate Summary

Client: SunStar Laboratories Inc Job ID: 570-233309-1

Project/Site: T252362

Method: 8015B - Diesel Range Organics (DRO) (GC)

Matrix: Water Prep Type: Total/NA

			Percent Surrogate Recovery (Acceptance Limits)
		OTCSN1	
Lab Sample ID	Client Sample ID	(53-151)	
570-233309-1	T252362-01	108	
570-233309-2	T252362-02	105	
570-233309-3	T252362-03	110	
570-233309-4	T252362-04	58	
570-233309-5	T252362-05	95	
LCS 570-581360/4-A	Lab Control Sample	107	
LCSD 570-581360/5-A	Lab Control Sample Dup	101	
MB 570-581360/1-A	Method Blank	106	
Surrogate Legend			

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QC Sample Results

Client: SunStar Laboratories Inc Job ID: 570-233309-1

Project/Site: T252362

Method: 8015B - Diesel Range Organics (DRO) (GC)

	Lab Sample ID: MB 570-581360/1-A	Client Sample ID: Method Blank
	Matrix: Water	Prep Type: Total/NA
	Analysis Batch: 582716	Prep Batch: 581360
ı	MD MD	

	1410	IVID						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene, 1,1'-oxybis-	ND		100	ug/L		06/09/25 09:43	06/11/25 17:09	1
1,1'-Biphenyl	ND		100	ug/L		06/09/25 09:43	06/11/25 17:09	1
	MB	MB						
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	106		53 - 151			06/09/25 09:43	06/11/25 17:09	1

Lab Sample ID: LCS 570- Matrix: Water Analysis Batch: 582716	581360/4-A					Clie	ent Sai	mple ID	: Lab Control Sample Prep Type: Total/NA Prep Batch: 581360
•			Spike	LCS	LCS				%Rec
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits
Benzene, 1,1'-oxybis-			1000	879.9		ug/L		88	57 - 120
1,1'-Biphenyl			1000	844.8		ug/L		84	45 - 120
	LCS	LCS							
Surrogate	%Recovery	Qualifier	Limits						
n-Octacosane (Surr)	107		53 - 151						

Lab Sample ID: LCSD 570-581360/5-A Matrix: Water Analysis Batch: 582716			C	Client Sa	ample	ID: Lab	Control Prep Ty Prep Ba	pe: Tot	al/NA
	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene, 1,1'-oxybis-	1000	846.5		ug/L		85	57 - 120	4	20
1,1'-Biphenyl	1000	816.4		ug/L		82	45 - 120	3	20

6/17/2025

QC Association Summary

Client: SunStar Laboratories Inc Job ID: 570-233309-1

Project/Site: T252362

GC Semi VOA

Prep Batch: 581360

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-233309-1	T252362-01	Total/NA	Water	3510C	_
570-233309-2	T252362-02	Total/NA	Water	3510C	
570-233309-3	T252362-03	Total/NA	Water	3510C	
570-233309-4	T252362-04	Total/NA	Water	3510C	
570-233309-5	T252362-05	Total/NA	Water	3510C	
MB 570-581360/1-A	Method Blank	Total/NA	Water	3510C	
LCS 570-581360/4-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 570-581360/5-A	Lab Control Sample Dup	Total/NA	Water	3510C	

Analysis Batch: 582716

Lab Sample ID MB 570-581360/1-A	Client Sample ID Method Blank	Prep Type Total/NA	Matrix Water	Method 8015B	Prep Batch 581360
LCS 570-581360/4-A	Lab Control Sample	Total/NA	Water	8015B	581360
LCSD 570-581360/5-A	Lab Control Sample Dup	Total/NA	Water	8015B	581360

Analysis Batch: 583324

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-233309-1	T252362-01	Total/NA	Water	8015B	581360
570-233309-2	T252362-02	Total/NA	Water	8015B	581360
570-233309-3	T252362-03	Total/NA	Water	8015B	581360
570-233309-4	T252362-04	Total/NA	Water	8015B	581360
570-233309-5	T252362-05	Total/NA	Water	8015B	581360

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Lab Chronicle

Client: SunStar Laboratories Inc Job ID: 570-233309-1

Project/Site: T252362

Client Sample ID: T252362-01 Lab Sample ID: 570-233309-1

Date Collected: 06/03/25 16:30 **Matrix: Water** Date Received: 06/05/25 12:01

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			257.6 mL	2.5 mL	581360	06/09/25 09:46	TVD6	EET CAL 4
Total/NA	Analysis	8015B		1	1 mL	1 mL	583324	06/12/25 22:12	H6FE	EET CAL 4
	Instrumer	t ID: GC70B								

Client Sample ID: T252362-02 Lab Sample ID: 570-233309-2 **Matrix: Water**

Date Collected: 06/03/25 17:50 Date Received: 06/05/25 12:01

Dil Batch **Batch** Initial **Final Batch Prepared Prep Type** Type Method Run **Factor** Amount Amount Number or Analyzed Analyst Lab 3510C Total/NA 581360 06/09/25 09:46 TVD6 EET CAL 4 253.1 mL 2.5 mL Prep Total/NA 8015B 583324 06/12/25 22:37 H6FE **EET CAL 4** Analysis 1 mL 1 mL Instrument ID: GC70B

Client Sample ID: T252362-03 Lab Sample ID: 570-233309-3 **Matrix: Water**

Date Collected: 06/03/25 15:00 Date Received: 06/05/25 12:01

Batch Batch Dil Initial Final Batch **Prepared Prep Type** Type Method Run **Factor Amount Amount** Number or Analyzed Analyst Lab Total/NA Prep 3510C 261.6 mL 2.5 mL 581360 06/09/25 09:46 TVD6 EET CAL 4 Total/NA Analysis 8015B 1 mL 583324 06/12/25 23:02 H6FE **EET CAL 4** 1 mL Instrument ID: GC70B

Client Sample ID: T252362-04 Lab Sample ID: 570-233309-4 Date Collected: 06/03/25 14:10 **Matrix: Water**

Date Received: 06/05/25 12:01

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			304.7 mL	2.5 mL	581360	06/09/25 09:46	TVD6	EET CAL 4
Total/NA	Analysis	8015B		1	1 mL	1 mL	583324	06/12/25 23:28	H6FE	EET CAL 4
	Instrumer	nt ID: GC70B								

Lab Sample ID: 570-233309-5 Client Sample ID: T252362-05 Date Collected: 06/03/25 14:00 **Matrix: Water**

Date Received: 06/05/25 12:01

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			261.5 mL	2.5 mL	581360	06/09/25 09:46	TVD6	EET CAL 4
Total/NA	Analysis	8015B		1	1 mL	1 mL	583324	06/12/25 23:53	H6FE	EET CAL 4
	Instrumer	nt ID: GC70B								

Laboratory References:

EET CAL 4 = Eurofins Calscience Tustin, 2841 Dow Avenue, Tustin, CA 92780, TEL (714)895-5494

Eurofins Calscience

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Accreditation/Certification Summary

Client: SunStar Laboratories Inc Job ID: 570-233309-1

Project/Site: T252362

Laboratory: Eurofins Calscience

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Oregon	NELAP	4175	02-02-26

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Method Summary

Client: SunStar Laboratories Inc

Project/Site: T252362

Job ID: 570-233309-1

Method	Method Description	Protocol	Laboratory
8015B	Diesel Range Organics (DRO) (GC)	SW846	EET CAL 4
3510C	Liquid-Liquid Extraction (Separatory Funnel)	SW846	EET CAL 4

Protocol References:

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

Laboratory References:

EET CAL 4 = Eurofins Calscience Tustin, 2841 Dow Avenue, Tustin, CA 92780, TEL (714)895-5494

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Sample Summary

Client: SunStar Laboratories Inc

Project/Site: T252362

Job ID: 570-233309-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
570-233309-1	T252362-01	Water	06/03/25 16:30	06/05/25 12:01
570-233309-2	T252362-02	Water	06/03/25 17:50	06/05/25 12:01
570-233309-3	T252362-03	Water	06/03/25 15:00	06/05/25 12:01
570-233309-4	T252362-04	Water	06/03/25 14:10	06/05/25 12:01
570-233309-5	T252362-05	Water	06/03/25 14:00	06/05/25 12:01

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SUBCONTRACT ORDER

SunStar Laboratories, Inc.

Loc: 570 233309

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T252362

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 Calscience (Tustin) 2841 Dow Ave, Suite 100 Tustin, CA 92780

Phone: (949) 261-1022

Fax: N/A



Analysis Due **Expires** Laboratory ID Comments Sample ID: T252362-01 Water Sampled:06/03/25 16:30 Misc Water Testing #1 06/11/25 15:00 11/30/25 16:30 8015M- Therminol (Normal TAT) Containers Supplied: Sampled:06/03/25 17:50 Sample ID: T252362-02 Water Misc Water Testing #1 06/11/25 15:00 11/30/25 17:50 8015M- Therminol (Normal TAT) Containers Supplied: Sample ID: T252362-03 Water Sampled:06/03/25 15:00 Misc Water Testing #1 06/11/25 13:00 11/30/25 15:00 8015M- Therminol (Normal TAT) Containers Supplied: Sample ID: T252362-04 Sampled:06/03/25 14:10 Water Misc Water Testing #1 06/11/25 15:00 11/30/25 14:10 8015M- Therminol (Normal TAT) Containers Supplied: 5 Sample ID: T252362-05 Water Sampled:06/03/25 14:00 06/11/25 15:00 Misc Water Testing #1 11/30/25 14:00 8015M- Therminol (Normal TAT) Containers Supplied:

1201

Released By

Date

Received By

Date

49/8-9 1R92

Page 1 of 2 6/17/2025

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Login Sample Receipt Checklist

Client: SunStar Laboratories Inc Job Number: 570-233309-1

Login Number: 233309 List Source: Eurofins Calscience

List Number: 1

Creator: Vitente, Precy

Creator. Vitelite, Precy		
Question	Answer	Comment
Radioactivity wasn't checked or is = background as measured by a survey meter.</td <td>N/A</td> <td></td>	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
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	
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?	N/A	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	

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Sample Name: T252362-01

Company: SunStar Laboratories, Inc

Container: 250ml Plastic Bottle

δD of water	-70.4‰ relative to VSMOW
δ^{18} O of water	-8.64‰ relative to VSMOW
Tritium content of water	na
$\delta^{13}\text{C}$ of DIC	na
¹⁴ C content of DIC	na
$\delta^{15} N$ of nitrate	na
$\delta^{18}\text{O}$ of nitrate	na
δ^{34} of sulfate	na
δ^{18} O of sulfate	na
Vacuum Distilled? *	No

Remarks:



Lab #: 970873 **Job #:** 62677 **Co. Job#:** T252362

Sample Name: T252362-02

Company: SunStar Laboratories, Inc

Container: 250ml Plastic Bottle

δD of water	-70.3‰ relative to VSMOW		
δ^{18} O of water	-8.67‰ relative to VSMOW		
Tritium content of water	na		
$\delta^{13} \text{C of DIC}$	na		
¹⁴ C content of DIC	na		
δ^{15} N of nitrate	na		
$\delta^{18}\text{O}$ of nitrate	na		
δ^{34} of sulfate	na		
$\delta^{18}\text{O}$ of sulfate	na		
Vacuum Distilled? *	No		

Remarks:



Sample Name: T252362-03

Company: SunStar Laboratories, Inc

Container: 250ml Plastic Bottle

δD of water	-71.4‰ relative to VSMOW
δ^{18} O of water	-8.76‰ relative to VSMOW
Tritium content of water	na
$\delta^{13}\text{C}$ of DIC	na
¹⁴ C content of DIC	na
δ^{15} N of nitrate	na
$\delta^{18}\text{O}$ of nitrate	na
δ^{34} of sulfate	na
δ^{18} O of sulfate	na
Vacuum Distilled? *	No

Remarks:

Printed: 6/4/2025 3:32:50PM



WORK ORDER

T252362

Client: Northstar Environmental Remediation Project Manager: Jeff Lee
Project: Genesis Solar Groundwater Project Number: 196-004-07

Report To:

Northstar Environmental Remediation Arlin Brewster

26225 Enterprise Court Lake Forest, CA 92630

Date Due: 06/11/25 17:00 (5 day TAT)

Received By: Dave Berner Date Received: 06/04/25 10:45 Logged In By: Alexis Marroquin Date Logged In: 06/04/25 11:50

Samples Received at: 2.5°C

Custody Seals No Received On Ice Yes

Containers Intact Yes
COC/Labels Agree Yes
Preservation Confiri Yes

Analysis	Due	TAT	Expires	Comments
T252362-01 DM-1 [Water (US &] Sampled 06/03/25 16	:30 (GMT-	08:00) Pacific Time	e
1664	06/11/25 15:00	5	07/01/25 16:30	Oil & Grease
200.7	06/11/25 15:00	5	11/30/25 16:30	Ca,Cu,Na,K,Fe,Mg - Dil @ 100x
200.8	06/11/25 15:00	5	11/30/25 16:30	Sb,As,Ba,Cd,Cr,Co,Pb,Ni,Se,Zn - Dil @ 20x
300.0 - F, Cl, Br, SO4	06/11/25 15:00	5	07/01/25 16:30	Chloride, Sulfate only Dil @ 20x
300.0 - NO2, NO3, PO4	06/11/25 15:00	5	06/05/25 16:30	Nitrate Dil @ 1x if possible
7470/71 Hg	06/11/25 15:00	5	09/01/25 16:30	
Conductivity	06/11/25 15:00	5	07/01/25 16:30	
pH water SM 4500-H+B	06/11/25 15:00	5	06/04/25 16:30	
TDS-160.1	06/11/25 15:00	5	06/10/25 16:30	
T252362-02 DM-2 [Water (US & 1664	Sampled 06/03/25 17 06/11/25 15:00	: 50 (GMT- 5	08:00) Pacific Time	e Oil & Grease
	00/11/23 13.00	3	01101125 11.50	On & Grease
200 /	06/11/25 15:00	5	11/30/25 17:50	
	06/11/25 15:00 06/11/25 15:00	5 5	11/30/25 17:50 11/30/25 17:50	Ca,Cu,Na,K,Fe,Mg - Dil @ 100x Sb,As,Ba,Cd,Cr,Co,Pb,Ni,Se,Zn - Dil @ 20x
200.8				Ca,Cu,Na,K,Fe,Mg - Dil @ 100x
200.7 200.8 300.0 - F, Cl, Br, SO4 300.0 - NO2, NO3, PO4	06/11/25 15:00	5	11/30/25 17:50	Ca,Cu,Na,K,Fe,Mg - Dil @ 100x Sb,As,Ba,Cd,Cr,Co,Pb,Ni,Se,Zn - Dil @ 20x
200.8 300.0 - F, Cl, Br, SO4	06/11/25 15:00 06/11/25 15:00	5 5	11/30/25 17:50 07/01/25 17:50	Ca,Cu,Na,K,Fe,Mg - Dil @ 100x Sb,As,Ba,Cd,Cr,Co,Pb,Ni,Se,Zn - Dil @ 20x Chloride,Sulfate only Dil @ 20x
200.8 300.0 - F, Cl, Br, SO4 300.0 - NO2, NO3, PO4	06/11/25 15:00 06/11/25 15:00 06/11/25 15:00	5 5 5	11/30/25 17:50 07/01/25 17:50 06/05/25 17:50	Ca,Cu,Na,K,Fe,Mg - Dil @ 100x Sb,As,Ba,Cd,Cr,Co,Pb,Ni,Se,Zn - Dil @ 20x Chloride,Sulfate only Dil @ 20x
200.8 300.0 - F, Cl, Br, SO4 300.0 - NO2, NO3, PO4 7470/71 Hg	06/11/25 15:00 06/11/25 15:00 06/11/25 15:00 06/11/25 15:00	5 5 5 5	11/30/25 17:50 07/01/25 17:50 06/05/25 17:50 09/01/25 17:50	Ca,Cu,Na,K,Fe,Mg - Dil @ 100x Sb,As,Ba,Cd,Cr,Co,Pb,Ni,Se,Zn - Dil @ 20x Chloride,Sulfate only Dil @ 20x

Printed: 6/4/2025 3:32:50PM



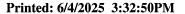
WORK ORDER

T252362

Client:Northstar Environmental RemediationProject Manager:Jeff LeeProject:Genesis Solar GroundwaterProject Number:196-004-07

Analysis	Due	TAT	Expires	Comments
T252362-03 DM-3 [Water]] Sampled 06/03/25 15	:00 (GMT-	-08:00) Pacific Tim	e
1664	06/11/25 15:00	5	07/01/25 15:00	Oil & Grease
200.7	06/11/25 15:00	5	11/30/25 15:00	Ca,Cu,Na,K,Fe,Mg - Dil @ 100x
200.8	06/11/25 15:00	5	11/30/25 15:00	Sb,As,Ba,Cd,Cr,Co,Pb,Ni,Se,Zn - Dil @ 20x
300.0 - F, Cl, Br, SO4	06/11/25 15:00	5	07/01/25 15:00	Chloride, Sulfate only Dil @ 20x
300.0 - NO2, NO3, PO4	06/11/25 15:00	5	06/05/25 15:00	Nitrate Dil @ 1x if possible
7470/71 Hg	06/11/25 15:00	5	09/01/25 15:00	
Conductivity	06/11/25 15:00	5	07/01/25 15:00	
pH water SM 4500-H+B	06/11/25 15:00	5	06/04/25 15:00	
TDS-160.1	06/11/25 15:00	5	06/10/25 15:00	
T252362-04 North Pond [V Time (US &	Water] Sampled 06/03.	/25 14:10 (GMT-08:00) Pacifi	c
1664	06/11/25 15:00	5	07/01/25 14:10	High Salt / Oil & Grease
200.7	06/11/25 15:00	5	11/30/25 14:10	High Salt / Ca,Cu,Na,K,Fe,Mg - Dil @ 100x
200.8	06/11/25 15:00	5	11/30/25 14:10	High Salt / Sb,As,Ba,Cd,Cr,Co,Pb,Ni,Se,Zn - Dil @ 20x
300.0 - F, Cl, Br, SO4	06/11/25 15:00	5	07/01/25 14:10	High Salt / Chloride, Sulfate only Dil @ 20x
300.0 - NO2, NO3, PO4	06/11/25 15:00	5	06/05/25 14:10	High Salt / Nitrate Dil @ 1x if possible
7470/71 Hg	06/11/25 15:00	5	09/01/25 14:10	High Salt
Conductivity	06/11/25 15:00	5	07/01/25 14:10	High Salt
pH water SM 4500-H+B	06/11/25 15:00	5	06/04/25 14:10	High Salt
TDS-160.1	06/11/25 15:00	5	06/10/25 14:10	High Salt
T252362-05 South Pond [V Time (US &	Water] Sampled 06/03	/25 14:00 (GMT-08:00) Pacifi	c
1664	06/11/25 15:00	5	07/01/25 14:00	High Salt / Oil & Grease
200.7	06/11/25 15:00	5	11/30/25 14:00	High Salt / Ca,Cu,Na,K,Fe,Mg - Dil @ 100x
200.8	06/11/25 15:00	5	11/30/25 14:00	High Salt / Sb,As,Ba,Cd,Cr,Co,Pb,Ni,Se,Zn - Dil @ 20x
300.0 - F, Cl, Br, SO4	06/11/25 15:00	5	07/01/25 14:00	High Salt / Chloride, Sulfate only Dil @ 20x
300.0 - NO2, NO3, PO4	06/11/25 15:00	5	06/05/25 14:00	High Salt / Nitrate Dil @ 1x if possible
7470/71 Hg	06/11/25 15:00	5	09/01/25 14:00	High Salt
Conductivity	06/11/25 15:00	5	07/01/25 14:00	High Salt
pH water SM 4500-H+B	06/11/25 15:00	5	06/04/25 14:00	High Salt
TDS-160.1	06/11/25 15:00	5	06/10/25 14:00	High Salt

Eurofins Calscience (Tustin)





WORK ORDER

T252362

Client: Northstar Environmental Remediation **Project Manager:** Jeff Lee **Project: Genesis Solar Groundwater Project Number:** 196-004-07 **Analysis** Due TAT **Expires Comments Eurofins Calscience (Tustin)** T252362-01 DM-1 [Water] Sampled 06/03/25 16:30 (GMT-08:00) Pacific Time (US & Misc Water Testing #1 06/11/25 15:00 10 11/30/25 16:30 8015M- Therminol (Normal TAT) T252362-02 DM-2 [Water] Sampled 06/03/25 17:50 (GMT-08:00) Pacific Time (US & Misc Water Testing #1 06/11/25 15:00 10 11/30/25 17:50 8015M- Therminol (Normal TAT) T252362-03 DM-3 [Water] Sampled 06/03/25 15:00 (GMT-08:00) Pacific Time (US & Misc Water Testing #1 06/11/25 15:00 10 11/30/25 15:00 8015M- Therminol (Normal TAT) T252362-04 North Pond [Water] Sampled 06/03/25 14:10 (GMT-08:00) Pacific Time (US & Misc Water Testing #1 06/11/25 15:00 11/30/25 14:10 8015M- Therminol (Normal TAT) T252362-05 South Pond [Water] Sampled 06/03/25 14:00 (GMT-08:00) Pacific Time (US & Misc Water Testing #1 11/30/25 14:00 06/11/25 15:00 5 8015M- Therminol (Normal TAT) Isotech Laboratories, Inc. T252362-01 DM-1 [Water] Sampled 06/03/25 16:30 (GMT-08:00) Pacific Time (US & 06/11/25 15:00 10 11/30/25 16:30 Misc Water Testing #2 Deuterium, Oxygen-18 (Normal TAT) T252362-02 DM-2 [Water] Sampled 06/03/25 17:50 (GMT-08:00) Pacific Time (US & Misc Water Testing #2 06/11/25 15:00 10 11/30/25 17:50 Deuterium, Oxygen-18 (Normal TAT) T252362-03 DM-3 [Water] Sampled 06/03/25 15:00 (GMT-08:00) Pacific Time (US & Misc Water Testing #2 06/11/25 15:00 11/30/25 15:00 Deuterium, Oxygen-18 (Normal TAT) 10

Reviewed By Date Page 3 of 3

APPENDIX C

LABORATORY ANALYTICAL RESULTS LAND TREATMENT UNITS

ANALYTICAL REPORT

PREPARED FOR

Attn: Arlin Brewster Northstar Environmental Remediation 26225 Enterprise Court Lake Forest, California 92630

Generated 4/2/2025 8:08:27 PM

JOB DESCRIPTION

Genesis

JOB NUMBER

570-223911-1

Eurofins Calscience 2841 Dow Avenue, Suite 100 Tustin CA 92780



Eurofins Calscience

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Calscience Project Manager.

Authorization

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Authorized for release by Sheri Fama, Project Manager I Sheri.Fama@et.eurofinsus.com (657)210-6368

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Definitions/Glossary

Client: Northstar Environmental Remediation Job ID: 570-223911-1

Project/Site: Genesis

Qualifiers

GC Semi VOA

Qualifier **Qualifier Description**

Result exceeded calibration range.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.			
	Listed under the "D" column to designate that the result is reported on a dry weight basis			
%R	Percent Recovery			
CFL	Contains Free Liquid			
CFU	Colony Forming Unit			
CNF	Contains No Free Liquid			
DER	Duplicate Error Ratio (normalized absolute difference)			
Dil Fac	Dilution Factor			
DL	Detection Limit (DoD/DOE)			

DL, RA, RE, IN

Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample

Decision Level Concentration (Radiochemistry) DLC

Estimated Detection Limit (Dioxin) EDL LOD Limit of Detection (DoD/DOE) LOQ Limit of Quantitation (DoD/DOE)

MCL EPA recommended "Maximum Contaminant Level" 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 **Quality Control**

RER Relative Error Ratio (Radiochemistry)

Reporting Limit or Requested Limit (Radiochemistry) RL

RPD Relative Percent Difference, a measure of the relative difference between two points

TEF Toxicity Equivalent Factor (Dioxin) Toxicity Equivalent Quotient (Dioxin) **TEQ**

TNTC Too Numerous To Count

Eurofins Calscience

4/2/2025

Page 4 of 17

Case Narrative

Client: Northstar Environmental Remediation

Project: Genesis

Job ID: 570-223911-1 Eurofins Calscience

Job Narrative 570-223911-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable.

- Matrix QC may not be reported if insufficient sample is provided or site-specific QC samples were not submitted. In these
 situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise
 specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt

The samples were received on 3/26/2025 2:38 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 time was 3.1°C.

Diesel Range Organics

Method 8015B_DRO: Due to the high concentration of Benzene, 1,1'-oxybis- and 1,1'-Biphenyl, the matrix spike / matrix spike duplicate (MS/MSD) for preparation batch 570-552044 and analytical batch 570-552339 could not be evaluated for accuracy and precision. The associated laboratory control sample (LCS) met acceptance criteria.

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

Eurofins Calscience

Job ID: 570-223911-1

Page 5 of 17 4/2/2025

Sample Summary

Client: Northstar Environmental Remediation

Project/Site: Genesis

Job ID: 570-223911-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
570-223911-1	LTU #1	Solid	03/26/25 06:40	03/26/25 14:38
570-223911-2	LTU #2	Solid	03/26/25 06:45	03/26/25 14:38

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Detection Summary

Client: Northstar Environmental Remediation

Project/Site: Genesis

Job ID: 570-223911-1

Client Sample ID: LTU #1	Lab Sample ID: 570-223911-

Analyte	Result Qualif	ifier RL	Unit	Dil Fac	D	Method	Prep Type
Benzene, 1,1'-oxybis DL	3200	240	mg/Kg	50		8015B	Total/NA
1,1'-Biphenyl - DL	990	240	mg/Kg	50		8015B	Total/NA

Client Sample ID: LTU #2 Lab Sample ID: 570-223911-2

Analyte	Result Qualifier	RL	Unit	Dil Fac	D Method	Prep Type
Benzene, 1,1'-oxybis DL	3500	240	mg/Kg	50	8015B	Total/NA
1,1'-Biphenyl - DL	1100	240	mg/Kg	50	8015B	Total/NA

Client Sample Results

Client: Northstar Environmental Remediation

Project/Site: Genesis

Client Sample ID: LTU #1 Lab Sample ID: 570-223911-1

Date Collected: 03/26/25 06:40 Matrix: Solid

Date Received: 03/26/25 14:38

Method: SW846 8015B - Die	sel Range Organics (I	DRO) (GC)	- DL					
Analyte	Result Q	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene, 1,1'-oxybis-	3200		240	mg/Kg		04/01/25 09:13	04/02/25 17:48	50
1,1'-Biphenyl	990		240	mg/Kg		04/01/25 09:13	04/02/25 17:48	50
Surrogate	%Recovery Q	Qualifier	Limits			Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	106		29 - 160			04/01/25 09:13	04/02/25 17:48	50

Client Sample ID: LTU #2 Lab Sample ID: 570-223911-2

Date Collected: 03/26/25 06:45

Date Received: 03/26/25 14:38

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene, 1,1'-oxybis-	3500		240	mg/Kg		04/01/25 09:13	04/02/25 18:14	50
1,1'-Biphenyl	1100		240	mg/Kg		04/01/25 09:13	04/02/25 18:14	50
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	101		29 - 160			04/01/25 09:13	04/02/25 18:14	50

Job ID: 570-223911-1

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Matrix: Solid

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Surrogate Summary

Client: Northstar Environmental Remediation

Project/Site: Genesis

Job ID: 570-223911-1

Method: 8015B - Diesel Range Organics (DRO) (GC)

Matrix: Solid Prep Type: Total/NA

CSN1 -160) -06 -50 -52
06 50
50
52
02
01
90
31
95
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Eurofins Calscience

Lab Chronicle

Client: Northstar Environmental Remediation

Project/Site: Genesis

Lab Sample ID: 570-223911-1

Matrice Callel

Job ID: 570-223911-1

Matrix: Solid

Client Sample ID: LTU #1

Date Collected: 03/26/25 06:40 Date Received: 03/26/25 14:38

Client Sample ID: LTU #2

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	3550C	DL		10.21 g	10 mL	552044	04/01/25 09:13	NV8K	EET CAL 4
Total/NA	Analysis	8015B	DL	50	1 mL	1 mL	552885	04/02/25 17:48	H6FE	EET CAL 4
	Instrume	nt ID: GC70B								

Lab Sample ID: 570-223911-2

Matrix: Solid

Date Collected: 03/26/25 06:45
Date Received: 03/26/25 14:38

Batch Batch Dil Initial Final Batch Prepared Method or Analyzed Prep Type Factor Amount Amount Number Type Lab Run Analyst DL Total/NA 3550C 10.37 g 10 mL 552044 04/01/25 09:13 NV8K EET CAL 4 Prep Total/NA Analysis 8015B DL 50 1 mL 552885 04/02/25 18:14 H6FE EET CAL 4 1 mL Instrument ID: GC70B

Laboratory References:

EET CAL 4 = Eurofins Calscience Tustin, 2841 Dow Avenue, Tustin, CA 92780, TEL (714)895-5494

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Job ID: 570-223911-1

Project/Site: Genesis

Method: 8015B - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 570-552044/1-A

Lab Sample ID: LCS 570-552044/2-A

Client: Northstar Environmental Remediation

Matrix: Solid

Benzene, 1,1'-oxybis-

Analyte

1,1'-Biphenyl

Analysis Batch: 552339

Client Sample ID: Method Blank

04/01/25 20:43

Prep Type: Total/NA

Prep Batch: 552044

мв мв Dil Fac Result Qualifier RLUnit D Prepared Analyzed ND 5.0 mg/Kg 04/01/25 09:12 04/01/25 20:43

mg/Kg

MB MB

ND

Qualifier Limits Prepared Dil Fac Surrogate %Recovery Analyzed n-Octacosane (Surr) 95 29 - 160 04/01/25 09:12 04/01/25 20:43

5.0

Client Sample ID: Lab Control Sample

04/01/25 09:12

Prep Type: Total/NA

Prep Batch: 552044

Matrix: Solid Analysis Batch: 552339 Spike LCS LCS %Rec

Limits Analyte Added Result Qualifier Unit D %Rec Benzene, 1,1'-oxybis-100 76.1 76 68 - 120 mg/Kg 1,1'-Biphenyl 100 77 4 77 57 - 120 mg/Kg

LCS LCS Surrogate %Recovery Qualifier Limits n-Octacosane (Surr) 29 - 160 90

Lab Sample ID: LCSD 570-552044/3-A **Client Sample ID: Lab Control Sample Dup**

Matrix: Solid

Analysis Batch: 552339

Prep Type: Total/NA

Prep Batch: 552044

RPD

LCSD LCSD Spike %Rec Analyte Added Result Qualifier Unit D %Rec Limits RPD Limit Benzene, 1,1'-oxybis-100 74.2 74 68 - 120 2 20 mg/Kg 57 - 120 1,1'-Biphenyl 100 75.6 mg/Kg 76 2 20

LCSD LCSD Qualifier Limits Surrogate %Recovery n-Octacosane (Surr) 81 29 - 160

Lab Sample ID: 570-223911-1 MS Client Sample ID: LTU #1

Matrix: Solid Prep Type: Total/NA Analysis Batch: 552339 Prep Batch: 552044

Sample Sample Spike MS MS %Rec Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits D Benzene, 1,1'-oxybis-3600 F 97 7 3780 F mg/Kg

1,1'-Biphenyl 1600 Ε 97.7 1780 mg/Kg

MS MS %Recovery Surrogate Qualifier Limits 29 - 160 n-Octacosane (Surr) 150

Lab Sample ID: 570-223911-1 MSD Client Sample ID: LTU #1

Matrix: Solid

Analysis Batch: 552339

Prep Type: Total/NA Prep Batch: 552044 Sample Sample Spike MSD MSD **RPD**

Result Qualifier Analyte Result Qualifier Added RPD Unit D %Rec Limits Limit Benzene, 1,1'-oxybis-3600 Ε 97.2 3460 Ε mg/Kg 9 20 1,1'-Biphenyl 1600 E 97.2 1730 E mg/Kg 3 20

Eurofins Calscience

QC Sample Results

Client: Northstar Environmental Remediation

Job ID: 570-223911-1

Project/Site: Genesis

Method: 8015B - Diesel Range Organics (DRO) (GC) (Continued)

Matrix: Solid

Analysis Batch: 552339

Lab Sample ID: 570-223911-1 MSD

MSD MSD

 Surrogate
 %Recovery
 Qualifier
 Limits

 n-Octacosane (Surr)
 152
 29 - 160

Client Sample ID: LTU #1
Prep Type: Total/NA

Prep Batch: 552044

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QC Association Summary

Client: Northstar Environmental Remediation Job ID: 570-223911-1

Project/Site: Genesis

GC Semi VOA

Prep Batch: 552044

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-223911-1 - DL	LTU #1	Total/NA	Solid	3550C	
570-223911-2 - DL	LTU #2	Total/NA	Solid	3550C	
MB 570-552044/1-A	Method Blank	Total/NA	Solid	3550C	
LCS 570-552044/2-A	Lab Control Sample	Total/NA	Solid	3550C	
LCSD 570-552044/3-A	Lab Control Sample Dup	Total/NA	Solid	3550C	
570-223911-1 MS	LTU #1	Total/NA	Solid	3550C	
570-223911-1 MSD	LTU #1	Total/NA	Solid	3550C	

Analysis Batch: 552339

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 570-552044/1-A	Method Blank	Total/NA	Solid	8015B	552044
LCS 570-552044/2-A	Lab Control Sample	Total/NA	Solid	8015B	552044
LCSD 570-552044/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B	552044
570-223911-1 MS	LTU #1	Total/NA	Solid	8015B	552044
570-223911-1 MSD	LTU #1	Total/NA	Solid	8015B	552044

Analysis Batch: 552885

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-223911-1 - DL	LTU #1	Total/NA	Solid	8015B	552044
570 223011 2 DI	LTIL#2	Total/NA	Solid	9015B	552044

Accreditation/Certification Summary

Client: Northstar Environmental Remediation

Job ID: 570-223911-1

Project/Site: Genesis

Laboratory: Eurofins Calscience

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority		am	Identification Number	Expiration Date 07-31-25	
California	ornia State		3082		
The following analytes	are included in this report, bu	it the laboratory is not certif	ied by the governing authority. This lis	t may include analytes	
0 ,	pes not offer certification.	•	, , ,	,	
for which the agency do Analysis Method	pes not offer certification. Prep Method	Matrix	Analyte	, ,	
0 ,		Matrix Solid	Analyte 1,1'-Biphenyl		

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Method Summary

Client: Northstar Environmental Remediation

Project/Site: Genesis

Job ID: 570-223911-1

Method	Method Description	Protocol	Laboratory
8015B	Diesel Range Organics (DRO) (GC)	SW846	EET CAL 4
3550C	Ultrasonic Extraction	SW846	EET CAL 4

Protocol References:

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

Laboratory References:

EET CAL 4 = Eurofins Calscience Tustin, 2841 Dow Avenue, Tustin, CA 92780, TEL (714)895-5494

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Eurofins Calscience

2841 Dow Avenue

Chain of Custody Recor



eurofins Enviror

Loc: 570

Sample Client Information	
Plane Plan	
Dampary:	
Preservation Codes:	
TAT Requested (days): Standard Tat Requested (days): Standard	
Compliance Project:	
Prone: P	03
Adding Project Name: Project Name: Sample Sample Sample Date Time Sample Date Time Sample Date Time Sample Date Dat	4 odecahydrate
Sample Genesis Stock S	
Sample Sam	
Sample Sample Sample Type Sample Type Sample C=Comp. G=grab Sample Samp	
Preservation Code: X	
LTU#2 03/26/25 0645 C S & X	
05/26/25 00-75 5 2 1	
LTU#4 G S 2	
Possible Hazard Identification Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) Return To Client Return To Client Deliverable Requested: I, II, III, IV, Other (specify) Special Instructions/QC Requirements:	3
Empty Kit Relinquished by	
Relinguished by: Date/Time: 03/24/25@ 1438 Company Received by: 3/24/145@ L438 Company Received by: 3/24/145@ L438 Company Received by:	
Custody Seals Intact: Custody Seal No.: Δ Yes Δ No Date/Time: Company Received by: Date/Time: Company Company Received by: Company Company Received by: Company Company Received by: Company	

Login Sample Receipt Checklist

Client: Northstar Environmental Remediation Job Number: 570-223911-1

Login Number: 223911 List Source: Eurofins Calscience

List Number: 1

Creator: Ferreira, Bruno

Creator: Ferreira, Bruno		
Question	Answer	Comment
Radioactivity wasn't checked or is = background as measured by a survey meter.</td <td>N/A</td> <td></td>	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
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	
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?	True	
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	

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JOB DESCRIPTION

PREPARED FOR

26225 Enterprise Court

Generated 6/16/2025 2:38:19 PM

Lake Forest, California 92630

Attn: Arlin Brewster

ANALYTICAL REPORT

Northstar Environmental Remediation

Genesis

JOB NUMBER

570-233055-1

Eurofins Calscience 2841 Dow Avenue, Suite 100 Tustin CA 92780

Eurofins Calscience

Job Notes

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The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Calscience Project Manager.

Authorization

Generated 6/16/2025 2:38:19 PM

Authorized for release by Sheri Fama, Project Manager I Sheri.Fama@et.eurofinsus.com (657)210-6368

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Definitions/Glossary

Client: Northstar Environmental Remediation Job ID: 570-233055-1

Project/Site: Genesis

Qualifiers

Qualifier

GC Semi VOA

Qualifier Description MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not

applicable.

Е Result exceeded calibration range.

S1+ Surrogate recovery exceeds control limits, high biased.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.						
₩	Listed under the "D" column to designate that the result is reported on a dry weight basis						
%R	Percent Recovery						
CFL	Contains Free Liquid						
CFU	Colony Forming Unit						
CNF	Contains No Free Liquid						
DER	Duplicate Error Ratio (normalized absolute difference)						
Dil Fac	Dilution Factor						
DL	Detection Limit (DoD/DOE)						

DL, RA, RE, IN

Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample

DLC Decision Level Concentration (Radiochemistry)

EDL Estimated Detection Limit (Dioxin) LOD Limit of Detection (DoD/DOE) LOQ Limit of Quantitation (DoD/DOE)

MCL EPA recommended "Maximum Contaminant Level" MDA Minimum Detectable Activity (Radiochemistry) MDC Minimum Detectable Concentration (Radiochemistry)

MDL Method Detection Limit Minimum Level (Dioxin) ML 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 **Quality Control** QC

Relative Error Ratio (Radiochemistry) RER

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) Toxicity Equivalent Quotient (Dioxin) TFO

TNTC Too Numerous To Count

Case Narrative

Client: Northstar Environmental Remediation

Project: Genesis

Job ID: 570-233055-1 Eurofins Calscience

Job Narrative 570-233055-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable.

- Matrix QC may not be reported if insufficient sample is provided or site-specific QC samples were not submitted. In these
 situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise
 specified in the method.
- · Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt

The samples were received on 6/4/2025 12:40 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 time was 0.8°C.

Diesel Range Organics

Method 8015B_DRO: Due to the high concentration of Benzene, 1,1'-oxybis- and 1,1'-Biphenyl, the matrix spike / matrix spike duplicate (MS/MSD) for preparation batch 570-581684 and analytical batch 570-583324 could not be evaluated for accuracy and precision. The associated laboratory control sample (LCS) met acceptance criteria.

Method 8015B_DRO: The following sample required a dilution due to the nature of the sample matrix: LTU #2 (570-233055-2). Because of this dilution, the surrogate spike concentration in the sample was reduced to a level where the recovery calculation does not provide useful information.

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

Eurofins Calscience

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Job ID: 570-233055-1

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Sample Summary

Client: Northstar Environmental Remediation

Project/Site: Genesis

Job ID: 570-233055-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
570-233055-1	LTU #1	Solid	06/03/25 13:20	06/04/25 12:40
570-233055-2	LTU #2	Solid	06/03/25 13:25	06/04/25 12:40

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Detection Summary

Client: Northstar Environmental Remediation

Project/Site: Genesis

Job ID: 570-233055-1

Client Sample ID: LTU #1 Lab Sample ID: 570-233055-1

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Benzene, 1,1'-oxybis-	3800		250	mg/Kg	50	_	8015B	Total/NA
1,1'-Biphenyl	1200		250	mg/Kg	50		8015B	Total/NA

Client Sample ID: LTU #2 Lab Sample ID: 570-233055-2

Analyte	Result Q	ualifier RL	Unit	Dil Fac	D Method	Prep Type
Benzene, 1,1'-oxybis-	5100	250	mg/Kg	50	8015B	Total/NA
1,1'-Biphenyl	1600	250	mg/Kg	50	8015B	Total/NA

Client Sample Results

Client: Northstar Environmental Remediation

Project/Site: Genesis

Client Sample ID: LTU #1 Lab Sample ID: 570-233055-1

Job ID: 570-233055-1

Date Collected: 06/03/25 13:20 Matrix: Solid Date Received: 06/04/25 12:40

Method: SW846 8015B - Diesel Range Organics (DRO) (GC) Result Qualifier RLUnit D Prepared Analyzed Dil Fac 250 06/09/25 19:39 Benzene, 1,1'-oxybis-3800 mg/Kg 06/14/25 20:20 50 250 1,1'-Biphenyl 1200 mg/Kg 06/09/25 19:39 06/14/25 20:20 50

Limits %Recovery Qualifier Prepared Dil Fac Surrogate Analyzed 06/09/25 19:39 n-Octacosane (Surr) 124 29 - 160 06/14/25 20:20 50

Client Sample ID: LTU #2 Lab Sample ID: 570-233055-2 Date Collected: 06/03/25 13:25 Matrix: Solid

Date Received: 06/04/25 12:40

Method: SW846 8015B - Diesel Range Organics (DRO) (GC) Analyte Result Qualifier RL Unit Prepared Analyzed Dil Fac 250 5100 mg/Kg 06/09/25 19:39 06/14/25 20:46 50 Benzene, 1,1'-oxybis-1,1'-Biphenyl 1600 250 mg/Kg 06/09/25 19:39 06/14/25 20:46 Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fac n-Octacosane (Surr) 168 S1+ 29 - 160 06/09/25 19:39 06/14/25 20:46

Surrogate Summary

Client: Northstar Environmental Remediation Job ID: 570-233055-1

Project/Site: Genesis

Method: 8015B - Diesel Range Organics (DRO) (GC)

Matrix: Solid Prep Type: Total/NA

			Percent Surrogate Recovery (Acceptance Limits)
		OTCSN1	
Lab Sample ID	Client Sample ID	(29-160)	
570-233055-1	LTU #1	124	
570-233055-1 MS	LTU #1	156	
570-233055-1 MSD	LTU #1	162 S1+	
570-233055-2	LTU #2	168 S1+	
LCS 570-581684/2-A	Lab Control Sample	104	
LCSD 570-581684/3-A	Lab Control Sample Dup	103	
MB 570-581684/1-A	Method Blank	106	
Surrogate Legend			

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Lab Chronicle

Client: Northstar Environmental Remediation

Project/Site: Genesis

Lab Sample ID: 570-233055-1

Matrix: Solid

Job ID: 570-233055-1

Date Collected: 06/03/25 13:20 Date Received: 06/04/25 12:40

Client Sample ID: LTU #1

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	3550C			10.04 g	10 mL	581684	06/09/25 19:39	S8LD	EET CAL 4
Total/NA	Analysis	8015B		50	1 mL	1 mL	584318	06/14/25 20:20	H6FE	EET CAL 4
	Instrume	nt ID: GC70B								

Lab Sample ID: 570-233055-2 Client Sample ID: LTU #2

Date Collected: 06/03/25 13:25 **Matrix: Solid**

Date Received: 06/04/25 12:40

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	3550C			9.95 g	10 mL	581684	06/09/25 19:39	S8LD	EET CAL 4
Total/NA	Analysis	8015B		50	1 mL	1 mL	584318	06/14/25 20:46	H6FE	EET CAL 4
	Instrume	nt ID: GC70B								

Laboratory References:

EET CAL 4 = Eurofins Calscience Tustin, 2841 Dow Avenue, Tustin, CA 92780, TEL (714)895-5494

Job ID: 570-233055-1

Project/Site: Genesis

Method: 8015B - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 570-581684/1-A

Lab Sample ID: LCS 570-581684/2-A

Client: Northstar Environmental Remediation

Matrix: Solid

Matrix: Solid

Analysis Batch: 583324

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 581684

	МВ	MB						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene, 1,1'-oxybis-	ND		5.0	mg/Kg		06/09/25 19:39	06/13/25 00:44	1
1,1'-Biphenyl	ND		5.0	mg/Kg		06/09/25 19:39	06/13/25 00:44	1

MB MB

%Recovery Qualifier Limits Dil Fac Surrogate Prepared Analyzed n-Octacosane (Surr) 106 29 - 160 06/09/25 19:39 06/13/25 00:44

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 581684

Analysis Batch: 583324 Spike LCS LCS %Rec

Limits Analyte Added Result Qualifier Unit D %Rec Benzene, 1,1'-oxybis-100 95.1 95 68 - 120 mg/Kg 1,1'-Biphenyl 100 91.5 92 57 - 120 mg/Kg

LCS LCS Surrogate %Recovery Qualifier Limits n-Octacosane (Surr) 29 - 160 104

Lab Sample ID: LCSD 570-581684/3-A Client Sample ID: Lab Control Sample Dup

Matrix: Solid

Analysis Batch: 583324

Prep Type: Total/NA

%Rec

Prep Batch: 581684

RPD Spike Added Result Qualifier Unit %Rec Limits RPD Limit Benzene, 1,1'-oxybis-100 96.2 96 68 - 120 20 mg/Kg 57 - 120 1,1'-Biphenyl 100 92.5 mg/Kg 92 20

LCSD LCSD

LCSD LCSD Qualifier Limits Surrogate %Recovery n-Octacosane (Surr) 103 29 - 160

Lab Sample ID: 570-233055-1 MS Client Sample ID: LTU #1

Matrix: Solid

Prep Type: Total/NA

Analysis Batch: 583324 **Prep Batch: 581684** Sample Sample Spike MS MS %Rec

Analyte Result Qualifier Added Result Qualifier Unit D %Rec Limits Benzene, 1,1'-oxybis-3800 Ε 100 4150 E4 mg/Kg 323 68 - 120 1,1'-Biphenyl 1800 E 100 2350 E 4 mg/Kg 515 57 - 120

MS MS %Recovery Limits Surrogate Qualifier 29 - 160 n-Octacosane (Surr) 156

Lab Sample ID: 570-233055-1 MSD Client Sample ID: LTU #1 Prep Type: Total/NA

Matrix: Solid

Analysis Batch: 583324 **Prep Batch: 581684** Sample Sample Spike MSD MSD **RPD** Result Qualifier Added RPD Limit Result Qualifier Unit D %Rec Limits

Analyte Benzene, 1,1'-oxybis-3800 Ε 99.6 4310 E4 mg/Kg 488 68 - 120 20 1,1'-Biphenyl 1800 E 99.6 2150 E 4 mg/Kg 320 57 - 120 20

Eurofins Calscience

QC Sample Results

Client: Northstar Environmental Remediation Job ID: 570-233055-1

Project/Site: Genesis

Method: 8015B - Diesel Range Organics (DRO) (GC) (Continued)

Matrix: Solid

Analysis Batch: 583324

Lab Sample ID: 570-233055-1 MSD

MSD MSD

 Surrogate
 %Recovery
 Qualifier
 Limits

 n-Octacosane (Surr)
 162
 S1+
 29 - 160

Client Sample ID: LTU #1 Prep Type: Total/NA

Prep Batch: 581684

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QC Association Summary

Client: Northstar Environmental Remediation

Project/Site: Genesis

GC Semi VOA

Prep Batch: 581684

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-233055-1	LTU #1	Total/NA	Solid	3550C	
570-233055-2	LTU #2	Total/NA	Solid	3550C	
MB 570-581684/1-A	Method Blank	Total/NA	Solid	3550C	
LCS 570-581684/2-A	Lab Control Sample	Total/NA	Solid	3550C	
LCSD 570-581684/3-A	Lab Control Sample Dup	Total/NA	Solid	3550C	
570-233055-1 MS	LTU #1	Total/NA	Solid	3550C	
570-233055-1 MSD	LTU #1	Total/NA	Solid	3550C	

Analysis Batch: 583324

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 570-581684/1-A	Method Blank	Total/NA	Solid	8015B	581684
LCS 570-581684/2-A	Lab Control Sample	Total/NA	Solid	8015B	581684
LCSD 570-581684/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B	581684
570-233055-1 MS	LTU #1	Total/NA	Solid	8015B	581684
570-233055-1 MSD	LTU #1	Total/NA	Solid	8015B	581684

Analysis Batch: 584318

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-233055-1	LTU #1	Total/NA	Solid	8015B	581684
570-233055-2	LTU #2	Total/NA	Solid	8015B	581684

Job ID: 570-233055-1

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Accreditation/Certification Summary

Client: Northstar Environmental Remediation

Job ID: 570-233055-1

Project/Site: Genesis

Laboratory: Eurofins Calscience

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority California		am	Identification Number	Expiration Date	
			3082	07-31-25	
The following analytes:	are included in this report, bu	it the laboratory is not certif	ied by the governing authority. This lis	t mav include analytes	
• •	oes not offer certification.	,	, 3 3 ,	, ,	
• •	· · · · · · · · · · · · · · · · · · ·	Matrix	Analyte	, ,	
for which the agency do	pes not offer certification.	•	, , ,		

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Method Summary

Client: Northstar Environmental Remediation

Project/Site: Genesis

Job ID: 570-233055-1

Method	Method Description	Protocol	Laboratory	
8015B	Diesel Range Organics (DRO) (GC)	SW846	EET CAL 4	
3550C	Ultrasonic Extraction	SW846	EET CAL 4	

Protocol References:

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

Laboratory References:

EET CAL 4 = Eurofins Calscience Tustin, 2841 Dow Avenue, Tustin, CA 92780, TEL (714)895-5494

Eurofins Calscience

2841 Dow Avenue Tustin, CA 92780 (714) 730-7950

Chain of Custody Record



Loc: 570

Enviro Americ 233055

Client Information	Sampler: A. Brewster		Lab PM: Sheri Fama				Carrier Tracking No(s):				COC No:						
Client Contact: Mr. Arlin Brewster	Phone: E-M (949) 274-1719 she			il: <u>i.fama@eurofinset.com</u>						State of Origin: California				Page: Page 1 of 1			
Company: Northetar Environmental Remediation	· · · · · · · · · · · · · · · · · · ·	PWSID:						Δnal	veie	Ren	uested				Job#:		
Address:	Due Date Requested:					Т		1101	y 313	1	uestee				Preservation Codes:		
26225 Enterprise Court															A - HCL M - Hexane		
Dity: Lake Forest	TAT Requested (days): Standard													193	B - NaOH N - None C - Zn Acetate O - AsNaO2 D - Nitric Acid P - Na2O4S		
State, Zip: CA, 92630	Compliance Project: A	Compliance Project: Δ Yes Δ No			-								E - NaHSO4 Q - Na2SO3				
Phone: 949) 274-1719	PO #: 196-004-07	PO#:									F - MeOH R - Na2S2O3 G - Amchlor S - H2SO4 H - Ascorbic Acid T - TSP Dodecahydi						
Email:	WO #:		- 2	Sample (Yes or No) Ol							I - Ice U - Acetone						
Arlin.Brewster@NorthstarER.com	Project #:			or No		Moto			6					ers	J - DI Water V - MCAA K - EDTA W - pH 4-5		
Project Name: Genesis	57015059		2	(Yes o		+			(601	,				ıtair	L - EDA Z - other (specify)		
Site:	SSOW#:		4	200		Dies		s	etals		f containers			fcor	Other:		
Genesis					loui	9	<u></u>	Š	8 8					e o			
Sample Identification	Sample Date Tin	Type (w=	water, solid, ste/oil, ue, A=Air)	EI.E.	8015M Thermino	8015B Gasoline + Diesel + Motor	Title 22 Metals Mercury	8260B - Total VOCs	TCLP - RCRA 8 Metals (6010)					Total Number of	Special Instructions/Note: EDF file NOT required		
sample identification	Gample Bate	Preservation C			8	1							1 6 13 50	$\sqrt{}$			
_TU #1	6/3/25 132		s §		X									1			
.TU #2	6/3/25 132	5 c	s §	_	X									1			
TU#3		С	S 2	-										N			
TU#4			3 - 2	9											(*)		
			1						+								
ALCO MANAGEMENT				+					+				\Box	1000			
									+								
							-		+								
		1 14 1 4 1 1					_	+	+				++				
							-	+	-					-110			
		0-233055 Chain of Cu	ustody_	-													
				1				1	1								
Possible Hazard Identification				Sai	mple	Dispo	sal (.	A fee	may	be a	ssessed	if samp	les are r	etaine	ed longer than 1 month)		
Non-Hazard Flammable Skin Irritant	Poison B Unknown	Radiological					To Clie				isposal E				ive For Months		
Peliverable Requested: I, II, III, IV, Other (specify)							tions/										
mpty Kit Relinquished by:	Date:			ime:		\bigcirc	Δ				Meth	od of Ship	ment:				
RelinQuished by:	Date/Tyme: 06/03/05 @ 19 Date/Jyme: 0-4-25 @	530 Na	Thisto	ar	Rece	Pod y			1/			Dat	Time:	-0	1536 Company		
Relinquished by:	Date/Jime:	1240 Compa	"HIT		Recei	ved by:		7			>	Dat	e/Time:		1270 EC		
Custody Seals Intact: Custody Seal No.:	10190	1-10 1.05	7.97	-	Coole	r Temp	erature	(s) °C i	and Oth	her Re	marks:				Call		

Ver: 01/16/2019 6/16/2025

Login Sample Receipt Checklist

Client: Northstar Environmental Remediation Job Number: 570-233055-1

Login Number: 233055 List Source: Eurofins Calscience

List Number: 1
Creator: Mills, Mary

Creator: Mills, Mary		
Question	Answer	Comment
Radioactivity wasn't checked or is = background as measured by a survey meter.</td <td>N/A</td> <td></td>	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
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	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
s the Field Sampler's name present on COC?	True	
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	

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