

DOCKETED

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Project Title:	COMPLIANCE-Luz Solar Electric Generating System Cogeneration AFC (150 MW) Units III-VII.
TN #:	233808
Document Title:	SEGS Kramer Junction 2020 1st Semiannual Detection Monitoring Report
Description:	N/A
Filer:	Glen T King
Organization:	NextEra Energy
Submitter Role:	Applicant
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NextEra Energy Operating Services, LLC, 41100 US Highway 395,
Boron, CA 93516
760-762-5562

July 8, 2020

Mr. John Steude, PG
Engineering Geologist
California Water Quality Control Board – Lahontan Region
2501 Lake Tahoe Boulevard
South Lake Tahoe, California 96150

Dear Mr. Steude:

Re: First Semester 2019 Monitoring Report
Board Order No. 6-97-58
SEGS III through VII Facilities, Boron, California

NextEra Energy Operating Services, LLC, on behalf of Luz Solar Partners III through VII, Ltd., is pleased to present this Monitoring Report for the First Semester of 2020. All operational activities with the exception of groundwater and vadose zone testing are performed by site personnel. Groundwater sampling and vadose zone testing is currently performed by Northstar Environmental Remediation (Northstar) of Lake Forest, California under direct contract to Luz Solar Partners III through VII Ltd. Chemical analyses are performed by an independent State of California-certified laboratory also under direct contract to Luz Solar Partners III through VII Ltd.

The results of neutron vadose zone moisture detection monitoring, and the groundwater monitoring data appear to be consistent with previous reporting periods. However, several horizontal neutron data points showed high readings during the second quarter sampling. It appears that these readings are the result of a calibration error or sensor malfunction as explained in the report. Analysis of groundwater samples for constituents of concern did not reveal any concentrations above expected levels.

If you have any questions regarding this report, please feel free to call me at (760) 762-1505.

Sincerely,
NextEra Energy Operating Services, LLC, for
Luz Solar Partners III – VII Ltd.

A handwritten signature in black ink, appearing to read "Glen T. King".

Glen T. King
Environmental Specialist
Luz Solar Partners III – VII Ltd.

Date: July 8, 2020

California Regional Water Quality Control Board
Lahontan Region
2501 Lake Tahoe Boulevard
South Lake Tahoe, California 96150

Facility Name: SEGS III - VII

Address: 41100 Highway 395
Boron, CA 93516

Contact Person: Glen King

Job Title: Environmental Specialist

Phone: 760-762-3100x231

Email: glen.king@fpl.com

WDR/NPDES Order Number: 6-97-58

WDID Number: 6B364550002

Type of Report (circle one): Monthly Quarterly Semi-Annual Annual Other

Month(s) (circle applicable month(s)*: JAN FEB MAR APR MAY JUN
JUL AUG SEP OCT NOV DEC

*annual Reports (circle the first month of the reporting period)

Year: 2020

Violation(s)? (Please check one): X NO YES*

***If YES is marked complete a-g (Attach Additional information as necessary)**

a) Brief Description of Violation: _____

b) Section(s) of WDRs/NPDES Permit Violated: _____

c) Reported Value(s) or Volume: _____

**d) WDRs/NPDES
Limit/Condition:**

**e) Date(s) and Duration of
Violation(s):**

f) Explanation of Cause(s):

**g) Corrective Action(s)
(Specify actions taken and a schedule
for actions to be taken)**

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision following a system designed to ensure that qualified personnel properly gather and evaluate the information submitted. Based on my knowledge of the person(s) who manage the system, or those directly responsible for data gathering, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

If you have any questions or require additional information, please contact me at the number provided above.

Sincerely,

Signature:  _____

Name: Glen T. King

Title: Environmental Specialist



2020 FIRST SEMIANNUAL
DETECTION MONITORING REPORT
SEGS III – VII KRAMER JUNCTION
Board Order No. 6-97-58

July 07, 2020

Prepared for:
Luz Solar Partners III - VII Ltd. c/o
NextEra Energy Operating Services, LLC
41100 Highway 395
Boron, California 93516

Prepared By:
Northstar Environmental Remediation
26225 Enterprise Court
Lake Forest, California 92630

SIGNATURE PAGE

2020 FIRST SEMIANNUAL DETECTION MONITORING REPORT

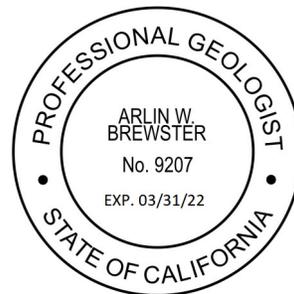
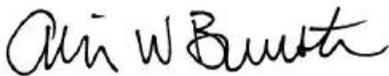
SEGS III – VII KRAMER JUNCTION

BORON, 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 07, 2020

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1.0 INTRODUCTION

Northstar Environmental Remediation (Northstar) of Lake Forest, California has prepared this 2020 First Semiannual Detection Monitoring Report for the Solar Electric Generating Station (SEGS) III – VII facility on behalf of NextEra Energy Operating Services, LLC (NextEra) and Luz Solar Partners III - VII Ltd. This report presents environmental data required under California Regional Water Quality Control Board - Lahontan Region (RWQCB) Order No. 6-97-58 Waste Discharge Requirements and Monitoring and Reporting Program. This report summarizes all monitoring activity related to the evaporation ponds that occurred during the reporting period. A site vicinity map of SEGS III – VII is included in **Figure 1**.

1.1 Facility Information

Facility Name:

Solar Electric Generating Station (SEGS) III – VII

Facility Location:

41100 Highway 395
Boron, California 92347

Facility Contact:

Mr. Glen T. King
Safety/Environmental Specialist
NextEra Energy Operating Services, LLC
(760) 762-1505

Monitoring and Reporting Program:

RWQCB Order No. 6-97-58 (6-88-144 rescinded)

Waste Discharge Identification Number:

6B364550002

1.2 Monitoring Summary

The following work was conducted between January 1 and June 30, 2020:

- LCRS Sump Totalizer Readings: Collected weekly by NextEra
- Evaporation Pond Discharge Totalizer Readings: Collected monthly by NextEra
- Evaporation Pond Inspections: Performed weekly by NextEra
- Groundwater Monitoring Well Sampling: Performed quarterly by Northstar
- Neutron Probe Logging: Performed quarterly by Northstar

2.0 EVAPORATION POND MONITORING

A total of three evaporation pond Class II surface impoundments exist onsite to receive wastewater discharge from SEGS operations. Evaporation Ponds 3, 4, and 5 (located from south to north, respectively) are each approximately 10 acres in size, and are located on the eastern edge of the SEGS facility.

Each pond is equipped with a leachate collection and removal system (LCRS) on the north and south ends of each pond (**Figure 2**). The volume of water pumped from each LCRS sump is recorded weekly and summarized by monthly totals (**Table 1**). The leakage action rate, as defined in the Revised Waste Discharge Requirements, is 200 gallons per day, at which point all wastewater discharge to the affected pond is ceased until repairs can be completed. During the first semester of 2020, leaks were not detected from any sumps except Pond 4, which has been offline since August 2019. During the reporting period, the highest monthly totals for each pond were 0 gallons in Pond 3, 9,047 gallons in Pond 4, and 0 gallons in Pond 5.

The total designed capacity of the evaporation ponds is 0.365 million gallons per day. The total operational discharge volume of wastewater to the ponds is recorded monthly and summarized by monthly and yearly totals (**Table 2**). During the reporting period, the highest monthly total was 48,375 gallons in January (approximately 0.002 million gallons per day). Wastewater discharge to all ponds was ceased in February as part of the planned facility shutdown and transition.

Weekly visual inspections of the evaporation ponds by NextEra indicated that the pond liners were in good condition with no signs of soil discoloration, vegetation loss, or wastewater leaks or spills in the surrounding area. The pond freeboard measurements were all above the minimum required threshold of 2.0 feet, as defined in the Revised Waste Discharge Requirements.

3.0 GROUNDWATER MONITORING

A total of four groundwater monitoring wells (MW-1 through MW-4) exist at the site and are monitored and sampled quarterly for signs of release from the evaporation ponds. The locations of all wells are presented on **Figure 3**. Monitoring well MW-1 is located upgradient, near the southwest corner of the SEGS facility. Monitoring wells MW-2 through MW-4 are positioned immediately adjacent to, and downgradient of, the evaporation ponds. The groundwater monitoring wells were monitored and sampled during the reporting period on March 17 and June 15, 2020.

3.1 Groundwater Elevation, Gradient, and Velocity

The groundwater elevation in MW-2 has historically been significantly lower than the other monitoring wells onsite. This may be the result of localized lithological confinement and/or drawdown from a groundwater extraction well south of the SEGS facility, which has periodically been used for construction activity on Highway 58 and dust suppression on nearby grid roads. As a result, the groundwater elevation in MW-2 has not been used to assess groundwater elevations across the rest of the SEGS facility.

Groundwater elevation contours and gradient direction are displayed on potentiometric surface maps for each quarter of the reporting period in **Figures 4 and 5**. In general, measured groundwater elevations ranged between 2,282.50 and 2,303.35 feet above mean sea level (ft amsl), and the average hydraulic gradient across the site (excluding MW-2 data) is 0.003 feet per linear foot (15.5 feet per mile) to the southeast.

The following formula (based on Darcy's Law) was used to calculate the approximate groundwater flow velocity:

$$V = (KhI)/ne$$

Where:

V = average linear groundwater velocity;

Kh = aquifer horizontal hydraulic conductivity;

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

ne = effective aquifer porosity.

During the development of monitoring well MW-1, it was determined that the hydraulic conductivity of the aquifer was approximately 14.6 feet per year. Assuming an effective porosity of 25% (0.25), and an average hydraulic gradient of 0.003 feet per linear foot, the estimated groundwater velocity is 0.175 feet per year.

3.2 Groundwater Sampling

All groundwater monitoring wells onsite are sampled according to the conditions in the Monitoring and Reporting Program. The program requires sampling of wells quarterly for analysis of sodium, sulfate, and total dissolved solids (TDS), and annually for the same constituents plus chloride, potassium, phosphate, and heat transfer fluid (Therminol). Wells are gauged for depth to water prior to purging three casing volumes. General field parameters are collected while purging, including electrical conductivity, pH, and temperature. After three volumes have been purged, a sample set is collected, chilled, and delivered to TestAmerica, Inc., a state- and federally-certified analytical laboratory. Data for the reporting period is presented in **Table 3**, and all historical data is graphically presented in **Charts 1 – 4**. A summary of data collected during each groundwater sampling event is included in **Appendix A**. Copies of the laboratory reports are included in **Appendix B**.

Laboratory results are compared to the quarterly monitoring parameter concentration limits, as defined in the Monitoring and Reporting Program, as follows:

Sodium	403 mg/l
Sulfate	389 mg/l
TDS	1,357 mg/l

For the reporting period, sodium ranged from 220 to 350 mg/l; sulfate from 190 to 340 mg/l; and TDS from 830 to 1,300 mg/l. All laboratory analytical results were below the required thresholds.

4.0 NEUTRON PROBE MONITORING

A CPN, Inc. Model 503 DR Hydro-Probe™ neutron probe is used to estimate the soil moisture below the evaporation ponds. The probe is passed through a series of horizontal wells beneath the ponds (numbered HN-1 through HN-10) and vertical wells at the cardinal points of each pond (numbered VN-2 through VN-11), as shown in **Figure 2**. The neutron probe is stopped at the same intervals during each test and the approximate percent soil moisture reading recorded. The moisture readings from the east and west side of the horizontal wells overlap by approximately 300 feet. While the Monitoring and Reporting Program specifies that “Neutron probes shall be used to detect moisture in the unsaturated zone”, it does not specify a moisture threshold limit. A soil moisture value of 30% is tentatively used as an action level, which is consistent with other Monitoring and Reporting Programs for similar applications.

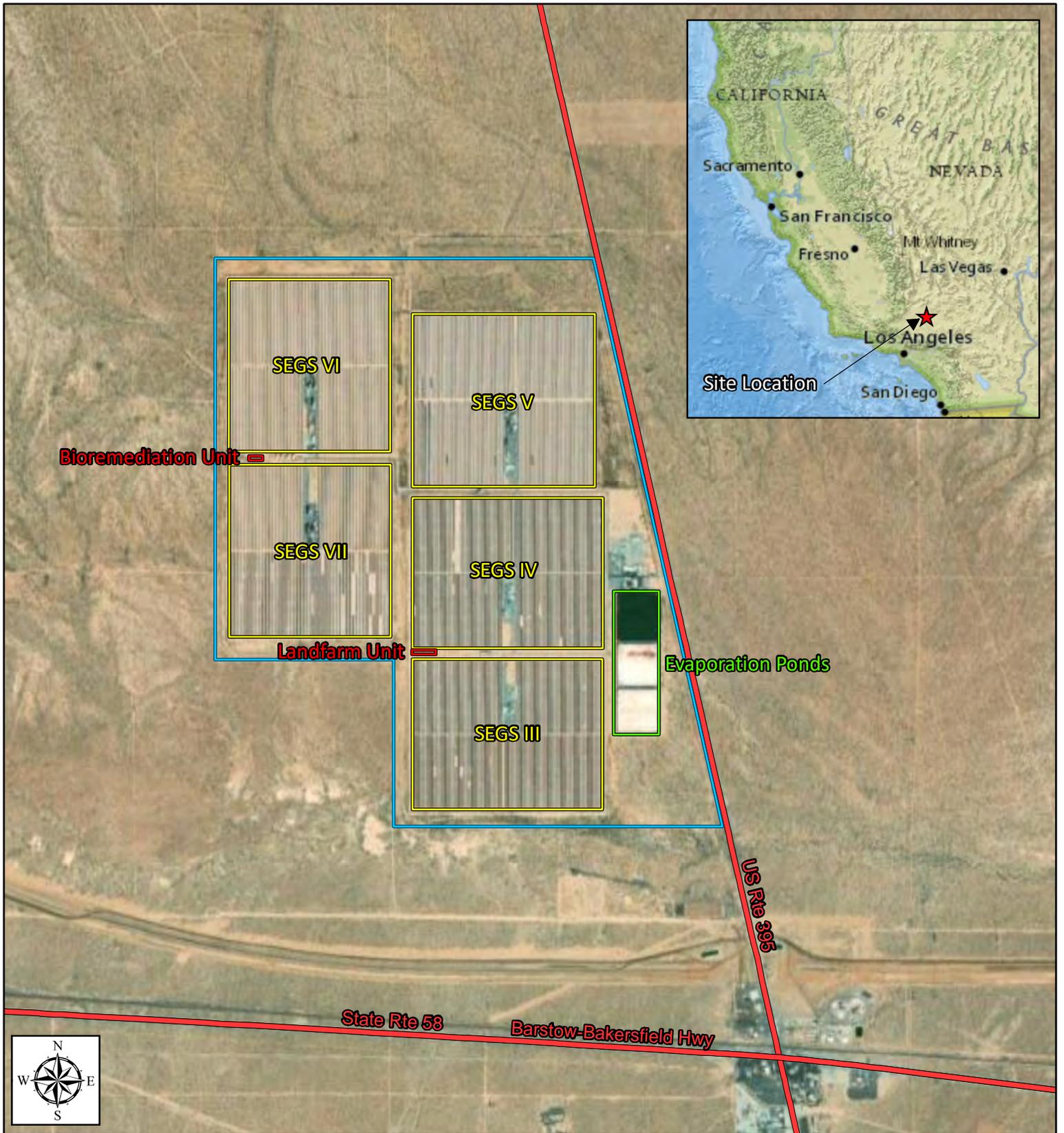
The neutron probe surveys were performed during this reporting period on March 24 and 25 and June 25 and 26, 2020. Well VN-2 was damaged prior to the reporting period and is no longer used. The moisture probe readings for the First and Second Quarter of 2020 are summarized in **Table 4** (horizontal wells) and **Table 5** (vertical wells). For this monitoring period, all soil moisture readings were below the tentative 30% threshold for the First Quarter. During the second quarter, water was detected on the inside of vertical well VN-8 at 45 feet below top of casing, which intruded the well from a crack in the casing.

Additionally, a total of 11 readings from the west side of the ponds exceeded the tentative 30% moisture content threshold. Since the moisture readings from each side of the ponds overlap by approximately 300 feet, but returned significantly different values, it appears there was a sensor malfunction or calibration error when obtaining readings from the west side of the ponds, which were collected on a different day. Furthermore, the readings obtained from the east side of the ponds is consistent with historical values. As a result, it does not appear that the elevated moisture readings obtained in June indicate a release. These measurement points will, however, be placed under increased scrutiny during the next monitoring event.

5.0 FINANCIAL ASSURANCE

A financial assurance deposit of \$100,000 was placed in a secured, interest-accruing account in 1992. A certificate of deposit was acquired and placed on file with the RWQCB as evidence of the financial assurance. The funds were set aside as a measure to cover the cost of a reasonably foreseeable release and as a contingency for facility closure costs, plus additional funds to account for inflation over the estimated 30-year lifespan of the project. This measure was incorporated as part of a closure plan submitted to the RWQCB on October 20, 1992. It is believed the funds are currently adequate to cover mitigation costs for a release scenario.

FIGURES



Legend

-  Facility Boundary
-  Solar Fields
-  Land Treatment Units
-  Evaporation Ponds

SEGS III - VII Kramer Junction
Boron, California

Figure 1
Site Location
and Vicinity Map



Scale: 1:30,000

Date: 08 Jan 2020

Drawn By: AWB

Checked By: AWB



Legend

-  Groundwater Monitoring Wells
-  LCRS Sumps
-  Horizontal Neutron Probe Wells
-  Vertical Neutron Probe Wells

SEGs III - VII Kramer Junction
Boron, California

Figure 2
Evaporation Pond Monitoring Network

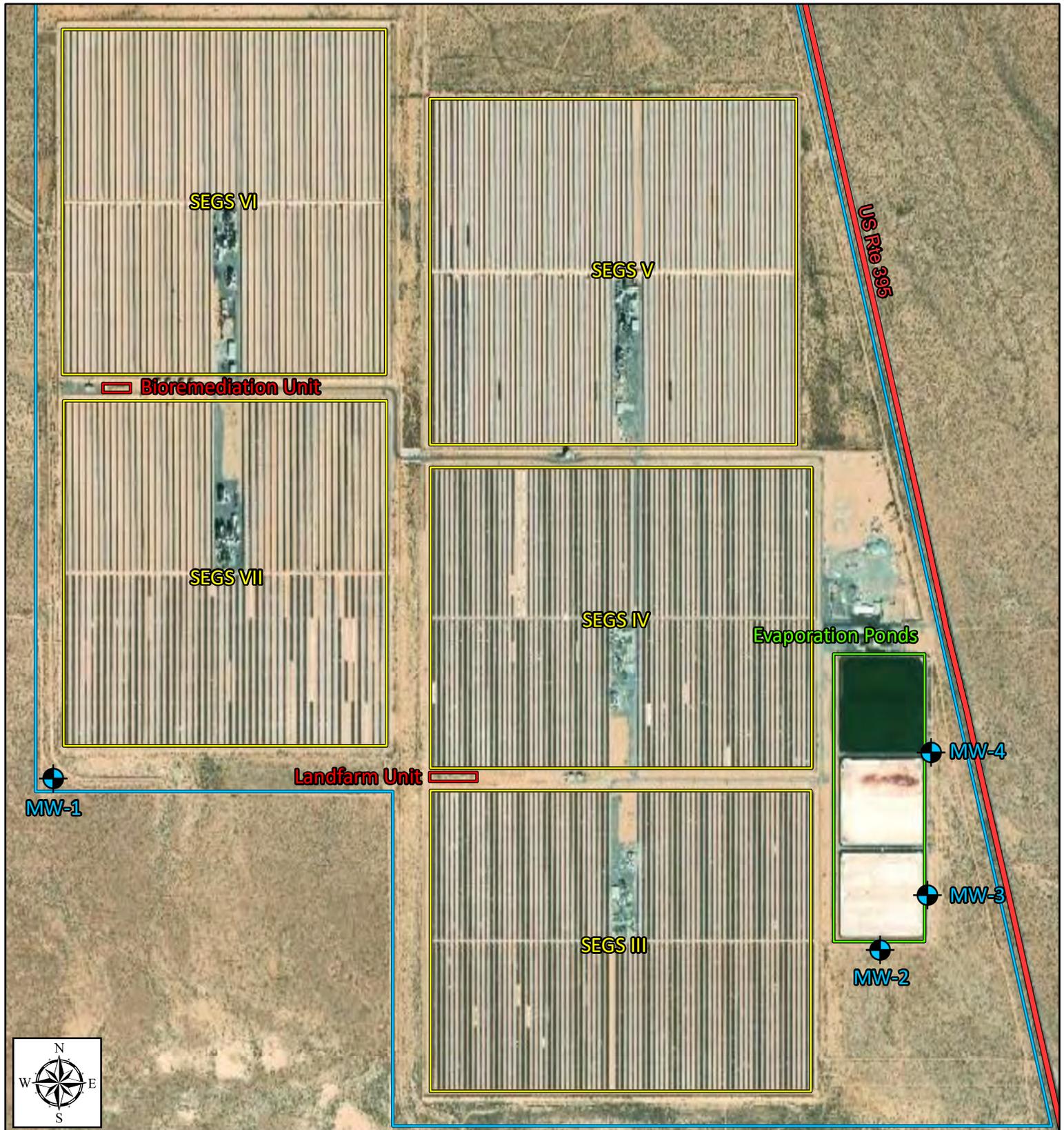


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Date: 08 Jan 2020

Drawn By: AWB

Checked By: AWB



Legend

-  Groundwater Monitoring Wells
-  Facility Boundary
-  Solar Fields
-  Land Treatment Units
-  Evaporation Ponds

SEGS III - VII Kramer Junction
Boron, California

Figure 3
Groundwater Monitoring Well Locations

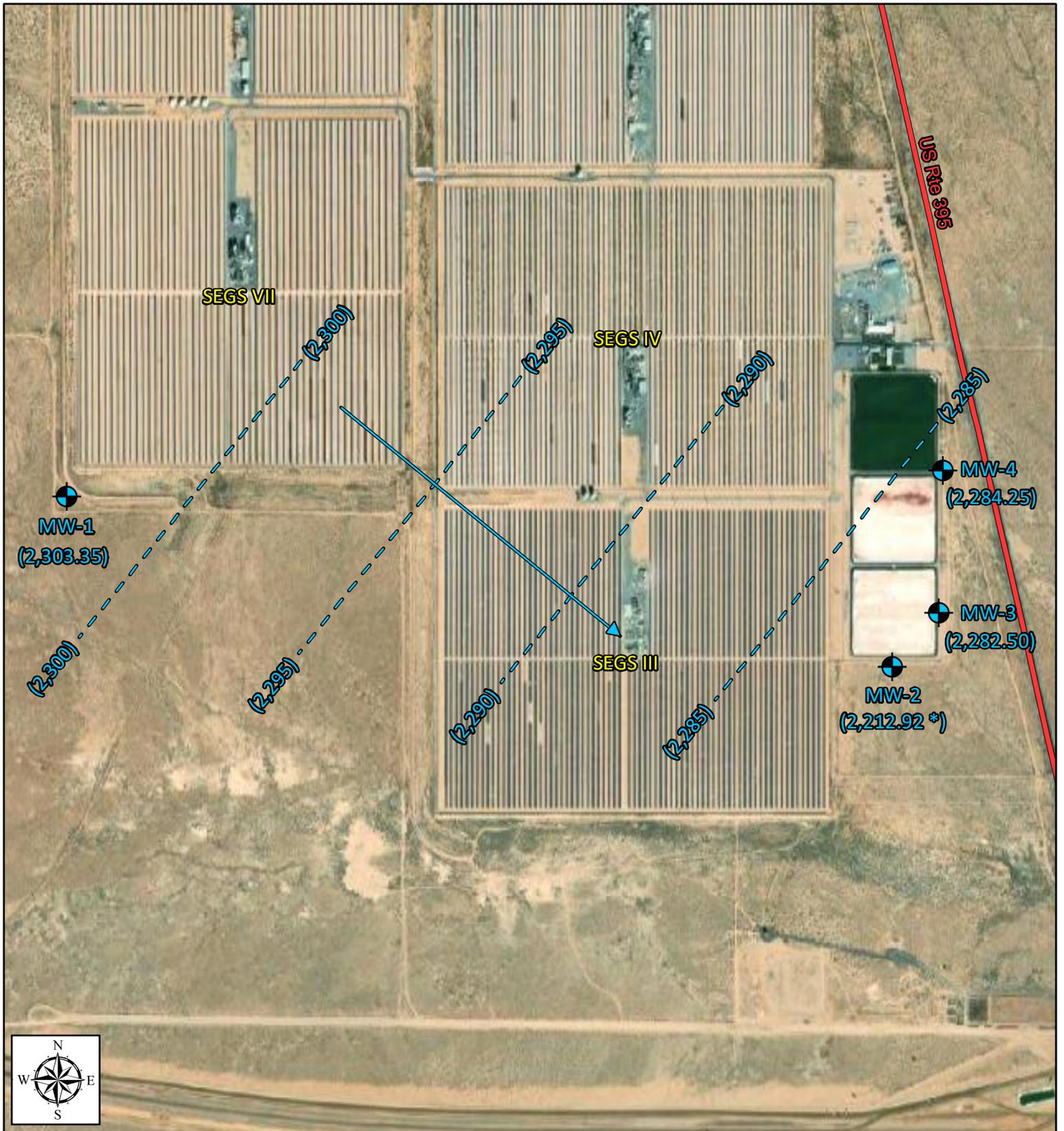


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Date: 08 Jan 2020

Drawn By: AWB

Checked By: AWB



Legend

-  Groundwater Monitoring Wells
-  Groundwater Gradient Direction
-  Groundwater Elevation Contour
- (2,300)** Groundwater Elevation in feet amsl
-  Data Point Not Used for Contouring

SEGS III - VII Kramer Junction
Boron, California

Figure 4
Potentiometric Surface Map
First Quarter 2020

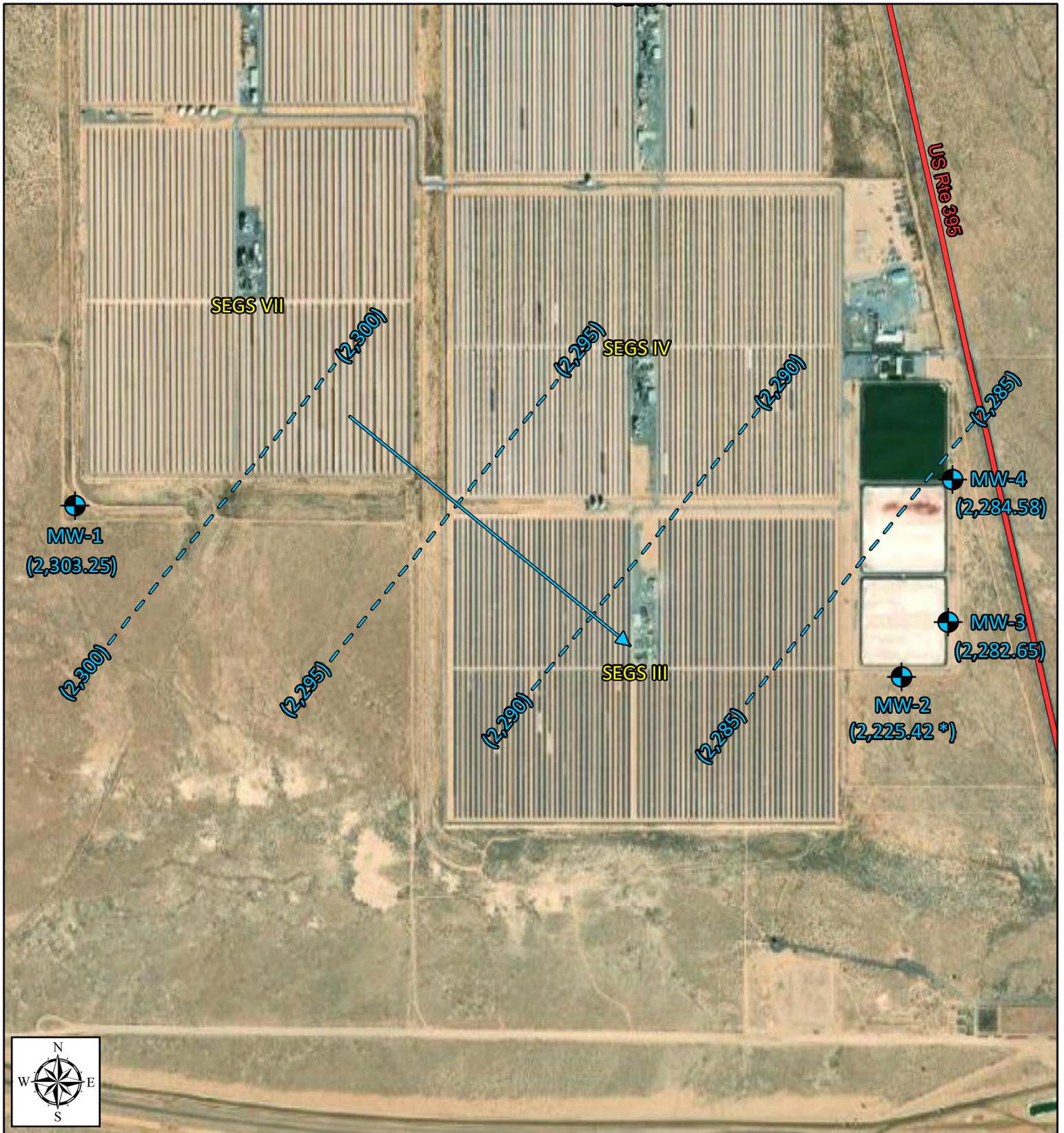


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Date: 07 Jul 2020

Drawn By: AWB

Checked By: AWB



Legend

-  Groundwater Monitoring Wells
-  Groundwater Gradient Direction
-  Groundwater Elevation Contour
- (2,300)** Groundwater Elevation in feet amsl
-  Data Point Not Used for Contouring

SEGS III - VII Kramer Junction
Boron, California

Figure 5
Potentiometric Surface Map
Second Quarter 2020



Scale: 1:15,000

Date: 07 Jul 2020

Drawn By: AWB

Checked By: AWB

TABLES

Table 1
LCRS Sump Pumping Log - Monthly Gallons Removed

Month	Sump ID						Total (All Sumps) (gallons)
	3-S (gallons)	3-N (gallons)	4-S (gallons)	4-N (gallons)	5-S (gallons)	5-N (gallons)	
Jan-06	0	180	0	440	0	5,290	5,910
Feb-06	0	240	0	680	0	3,460	4,380
Mar-06	0	1,280	0	290	0	8,910	10,480
Apr-06	0	150	0	220	0	980	1,350
May-06	0	340	0	230	0	460	1,030
Jun-06	0	1,940	0	220	0	340	2,500
Jul-06	0	250	0	260	0	390	900
Aug-06	0	220	0	220	0	310	750
Sep-06	0	130	0	110	0	270	510
Oct-06	0	90	0	0	0	180	270
Nov-06	0	50	0	0	0	90	140
Dec-06	0	20	0	0	0	80	100
Jan-07	0	2,930	0	0	0	30	2,960
Feb-07	0	1,520	0	0	0	0	1,520
Mar-07	0	1,210	0	0	0	0	1,210
Apr-07	0	1,190	0	0	0	0	1,190
May-07	0	4,000	0	0	0	0	4,000
Jun-07	0	1,120	0	0	0	120	1,240
Jul-07	0	650	0	0	0	120	770
Aug-07	0	420	0	0	0	110	530
Sep-07	0	490	0	0	0	110	600
Oct-07	0	100	0	0	0	80	180
Nov-07	0	30	0	0	0	60	90
Dec-07	0	0	0	0	0	50	50
Jan-08	0	0	0	0	0	50	50
Feb-08	0	0	0	0	0	40	40
Mar-08	0	0	0	0	0	40	40
Apr-08	0	0	0	0	0	10	10
May-08	0	0	0	0	0	30	30
Jun-08	0	0	0	0	0	40	40
Jul-08	0	0	0	0	0	70	70
Aug-08	0	0	0	0	0	40	40
Sep-08	0	0	0	0	0	5,670	5,670
Oct-08	0	0	0	0	0	820	820
Nov-08	0	0	0	0	0	220	220
Dec-08	0	0	0	0	0	0	0
Jan-09	0	0	0	0	0	0	0
Feb-09	0	0	0	0	0	0	0
Mar-09	0	0	0	0	0	0	0
Apr-09	0	0	0	0	0	0	0

Table 1
LCRS Sump Pumping Log - Monthly Gallons Removed

	Sump ID						Total (All Sumps)
	3-S	3-N	4-S	4-N	5-S	5-N	
May-09	0	0	0	0	0	0	0
Jun-09	0	0	0	0	0	0	0
Jul-09	0	0	0	0	0	0	0
Aug-09	0	0	0	0	0	0	0
Sep-09	0	0	0	0	0	0	0
Oct-09	0	0	0	0	0	0	0
Nov-09	0	0	0	0	0	0	0
Dec-09	0	0	0	0	0	0	0
Jan-10	0	0	0	0	0	0	0
Feb-10	0	0	0	0	0	0	0
Mar-10	0	0	0	0	0	0	0
Apr-10	0	0	0	0	0	0	0
May-10	0	0	0	0	0	0	0
Jun-10	0	0	0	0	0	0	0
Jul-10	0	0	0	0	0	0	0
Aug-10	0	0	0	0	0	0	0
Sep-10	0	0	0	0	0	0	0
Oct-10	0	0	0	0	0	0	0
Nov-10	0	0	0	0	0	0	0
Dec-10	0	0	0	0	0	0	0
Jan-11	0	0	0	0	0	0	0
Feb-11	320	0	0	2,850	0	820	3,990
Mar-11	2,430	660	0	1,300	0	1,220	5,610
Apr-11	0	0	0	0	340	290	630
May-11	9,520	16,780	3,870	14,130	4,270	4,220	52,790
Jun-11	15,050	12,030	90	1,050	3,660	1,100	32,980
Jul-11	6,160	1,570	6,470	3,690	2,660	5,610	26,160
Aug-11	10	0	9,130	16,030	750	0	25,920
Sep-11	0	0	0	10,360	2,480	0	12,840
Oct-11	0	0	2,950	1,480	0	0	4,430
Nov-11	0	0	400	0	0	0	400
Dec-11	0	0	0	0	0	0	0
Jan-12	0	0	0	0	0	0	0
Feb-12	0	0	0	0	0	0	0
Mar-12	0	0	0	1,420	2,780	0	4,200
Apr-12	1,800	1,630	8,040	9,490	17,280	14,770	53,010
May-12	21,550	18,100	870	1,290	580	11,890	54,280
Jun-12	20,735	19,695	910	975	775	940	44,030
Jul-12	20,885	20,095	520	695	165	530	42,890
Aug-12	19,340	18,680	20	520	0	410	38,970
Sep-12	20,110	19,690	390	570	40	290	41,090

Table 1
LCRS Sump Pumping Log - Monthly Gallons Removed

	Sump ID						Total (All Sumps)
	3-S	3-N	4-S	4-N	5-S	5-N	
Oct-12	20,860	19,770	20	430	290	210	41,580
Nov-12	6,350	16,730	0	890	170	120	24,260
Dec-12	0	14,290	0	200	130	90	14,710
Jan-13	0	13,840	0	1,420	120	90	15,470
Feb-13	0	15,940	0	380	10	80	16,410
Mar-13	0	18,420	0	870	0	100	19,390
Apr-13	0	20,020	0	360	0	100	20,480
May-13	0	20,260	0	400	0	120	20,780
Jun-13	0	19,540	0	190	0	110	19,840
Jul-13	0	17,440	0	360	0	130	17,930
Aug-13	0	18,380	0	300	0	110	18,790
Sep-13	0	9,170	0	330	0	130	9,630
Oct-13	0	2,600	0	360	0	70	3,030
Nov-13	0	0	0	660	0	60	720
Dec-13	0	0	0	360	0	40	400
Jan-14	0	0	0	110	0	100	210
Feb-14	0	0	0	90	0	50	140
Mar-14	0	0	0	660	0	60	720
Apr-14	0	0	0	140	0	70	210
May-14	0	0	0	450	0	70	520
Jun-14	0	0	0	110	0	60	170
Jul-14	0	0	0	340	0	80	420
Aug-14	0	0	0	190	0	80	270
Sep-14	0	0	0	2,040	0	60	2,100
Oct-14	0	0	2,230	160	0	40	2,430
Nov-14	0	0	690	1,090	0	10	1,790
Dec-14	0	0	10	12,380	0	10	12,400
Jan-15	0	0	0	13,265	0	30	13,295
Feb-15	0	0	1,320	1,565	0	30	2,915
Mar-15	0	0	17,550	620	0	20	18,190
Apr-15	0	0	18,460	440	0	20	18,920
May-15	0	0	18,380	340	0	20	18,740
Jun-15	9,880	120	7,430	340	0	40	17,810
Jul-15	12,620	10,100	1,540	4,040	0	50	28,350
Aug-15	12,250	16,980	430	2,720	0	0	32,380
Sep-15	1,460	12,470	15,730	3,860	0	0	33,520
Oct-15	0	0	2,120	15,580	0	0	17,700
Nov-15	0	0	0	16,297	0	0	16,297
Dec-15	0	0	30	8,993	0	0	9,023
Jan-16	1,700	5,820	330	2,520	8,270	0	18,640
Feb-16	12,310	7,550	190	9,370	8,360	0	37,780

Table 1
LCRS Sump Pumping Log - Monthly Gallons Removed

	Sump ID						Total (All Sumps)
	3-S	3-N	4-S	4-N	5-S	5-N	
Mar-16	340	2,760	750	4,940	0	0	8,790
Apr-16	11,120	16,270	2,750	10,270	410	0	40,820
May-16	17,680	17,330	12,340	8,340	260	0	55,950
Jun-16	17,380	17,380	1,110	3,970	190	0	40,030
Jul-16	18,050	21,140	2,070	0	60	0	41,320
Aug-16	18,710	21,960	0	0	0	0	40,670
Sep-16	18,020	21,800	9,460	0	0	0	49,280
Oct-16	11,980	19,280	18,690	4,830	0	0	54,780
Nov-16	8,240	13,900	11,000	16,670	0	0	49,810
Dec-16	2,040	1,190	830	14,670	2,190	710	21,630
Jan-17	2,620	1,320	2,780	10,760	12,280	170	29,930
Feb-17	4,900	14,480	10,620	11,740	13,360	890	55,990
Mar-17	9,360	20,050	5,480	5,460	11,260	2,340	53,950
Apr-17	11,860	20,740	11,020	3,240	12,630	370	59,860
May-17	11,550	18,800	5,100	3,990	2,600	220	42,260
Jun-17	11,120	19,710	760	2,630	2,430	210	36,860
Jul-17	11,080	20,030	2,520	4,930	430	170	39,160
Aug-17	13,160	20,060	1,240	1,250	330	90	36,130
Sep-17	13,910	20,620	1,420	4,810	80	0	40,840
Oct-17	13,380	20,710	6,140	270	0	0	40,500
Nov-17	12,810	17,870	0	260	0	0	30,940
Dec-17	4,740	16,380	0	150	160	0	21,430
Jan-18	5,850	15,020	290	620	190	230	22,200
Feb-18	2,050	13,420	0	2,280	100	90	17,940
Mar-18	1,040	17,260	0	6,120	120	70	24,610
Apr-18	1,800	19,000	2,040	5,810	120	0	28,770
May-18	1,190	20,600	3,900	5,700	30	140	31,560
Jun-18	470	20,090	0	5,760	0	80	26,400
Jul-18	260	19,960	0	11,150	0	80	31,450
Aug-18	136,090	20,790	0	3,670	100	70	160,720
Sep-18	20,690	20,530	4,740	490	90	40	46,580
Oct-18	20,860	20,330	610	480	1,260	40	43,580
Nov-18	18,950	17,470	0	200	3,260	10	39,890
Dec-18	14,470	10,990	870	3,620	10	0	29,960
Jan-19	14,640	10,194	1,219	7,140	0	40	33,233
Feb-19	14,930	10,833	1,030	12,060	170	760	39,783
Mar-19	19,060	19,083	5,049	7,405	10	2,885	53,492
Apr-19	19,210	19,712	502	1,755	890	3,075	45,144
May-19	17,470	18,509	287	640	250	220	37,376
Jun-19	18,120	18,873	348	430	130	230	38,131
Jul-19	19,100	19,817	1,515	950	10	180	41,572

Table 1
LCRS Sump Pumping Log - Monthly Gallons Removed

	Sump ID						Total (All Sumps)
	3-S	3-N	4-S	4-N	5-S	5-N	
Aug-19	20,060	20,862	7,524	0	130	160	48,736
Sep-19	19,460	20,272	3,599	0	130	100	43,561
Oct-19	20,780	21,774	815	2,760	90	70	46,289
Nov-19	13,243	15,982	224	0	60	50	29,559
Dec-19	6,727	7,132	10,718	0	30	130	24,738
Jan-20	0	0	9,047	0	0	0	9,047
Feb-20	0	0	1,019	0	0	0	1,019
Mar-20	0	0	0	0	0	0	0
Apr-20	0	0	0	0	0	0	0
May-20	0	0	0	0	0	0	0
Jun-20	0	0	0	0	0	0	0

Table 2
Evaporation Pond Discharge Volume

Month	Monthly Total (gallons)	12 Month Cumulative (gallons)	12 Month Average (gallons)	Quarterly Total (gallons)
Jan-96	2,263,058			7,231,602
Feb-96	2,105,752			
Mar-96	2,862,792			
Apr-96	2,308,868			9,841,646
May-96	3,207,411			
Jun-96	4,325,367			
Jul-96	3,919,897			11,793,291
Aug-96	4,486,353			
Sep-96	3,387,041			
Oct-96	1,902,024			4,562,368
Nov-96	786,743			
Dec-96	1,873,601	33,428,907	2,785,742	
Jan-97	2,318,716	33,484,565	2,790,380	3,981,517
Feb-97	1,134,627	32,513,440	2,709,453	
Mar-97	528,174	30,178,822	2,514,902	
Apr-97	1,828,015	29,697,969	2,474,831	7,856,325
May-97	2,726,594	29,217,152	2,434,763	
Jun-97	3,301,716	28,193,501	2,349,458	
Jul-97	3,641,880	27,915,484	2,326,290	9,262,436
Aug-97	3,017,871	26,447,002	2,203,917	
Sep-97	2,602,685	25,662,646	2,138,554	
Oct-97	1,924,350	25,684,972	2,140,414	5,223,904
Nov-97	1,493,903	26,392,132	2,199,344	
Dec-97	1,805,651	26,324,182	2,193,682	
Jan-98	3,537,002	27,542,468	2,295,206	8,167,310
Feb-98	2,265,327	28,673,168	2,389,431	
Mar-98	2,364,981	30,509,975	2,542,498	
Apr-98	2,043,750	30,725,710	2,560,476	5,707,998
May-98	1,813,393	29,812,509	2,484,376	
Jun-98	1,850,855	28,361,648	2,363,471	
Jul-98	2,400,786	27,120,554	2,260,046	8,219,216
Aug-98	2,803,502	26,906,185	2,242,182	
Sep-98	3,014,928	27,318,428	2,276,536	
Oct-98	2,757,923	28,152,001	2,346,000	6,110,226
Nov-98	1,517,904	28,176,002	2,348,000	
Dec-98	1,834,399	28,204,750	2,350,396	
Jan-99	4,076,110	28,743,858	2,395,322	8,603,101
Feb-99	3,387,710	29,866,241	2,488,853	
Mar-99	1,139,281	28,640,541	2,386,712	
Apr-99	1,909,531	28,506,322	2,375,527	8,118,768
May-99	2,598,508	29,291,437	2,440,953	
Jun-99	3,610,729	31,051,311	2,587,609	
Jul-99	3,584,009	32,234,534	2,686,211	9,878,478
Aug-99	3,199,737	32,630,769	2,719,231	
Sep-99	3,094,732	32,710,573	2,725,881	
Oct-99	3,215,390	33,168,040	2,764,003	7,236,981
Nov-99	1,459,301	33,109,437	2,759,120	
Dec-99	2,562,290	33,837,328	2,819,777	
Jan-00	3,646,722	33,407,940	2,783,995	8,321,143
Feb-00	2,394,445	32,414,675	2,701,223	
Mar-00	2,279,976	33,555,370	2,796,281	
Apr-00	3,040,666	34,686,505	2,890,542	11,194,424
May-00	3,913,917	36,001,914	3,000,160	
Jun-00	4,239,841	36,631,026	3,052,586	
Jul-00	3,920,539	36,967,556	3,080,630	11,264,420
Aug-00	3,651,998	37,419,817	3,118,318	
Sep-00	3,691,883	38,016,968	3,168,081	
Oct-00	3,174,352	37,975,930	3,164,661	8,390,589
Nov-00	2,746,446	39,263,075	3,271,923	
Dec-00	2,469,791	39,170,576	3,264,215	

Table 2
Evaporation Pond Discharge Volume

	Monthly Total	12 Month Cumulative	12 Month Average	Quarterly Total
Jan-01	2,269,629	37,793,483	3,149,457	6,512,203
Feb-01	1,536,945	36,935,983	3,077,999	
Mar-01	2,705,629	37,361,636	3,113,470	
Apr-01	2,547,247	36,868,217	3,072,351	
May-01	3,549,275	36,503,575	3,041,965	10,220,198
Jun-01	4,123,676	36,387,410	3,032,284	
Jul-01	4,624,988	37,091,859	3,090,988	
Aug-01	4,899,518	38,339,379	3,194,948	
Sep-01	6,032,912	40,680,408	3,390,034	15,557,418
Oct-01	4,424,702	41,930,758	3,494,230	
Nov-01	4,081,470	43,265,782	3,605,482	
Dec-01	3,038,386	43,834,377	3,652,865	
Jan-02	3,131,447	44,696,195	3,724,683	9,493,035
Feb-02	3,282,944	46,442,194	3,870,183	
Mar-02	3,078,644	46,815,209	3,901,267	
Apr-02	2,148,342	46,416,304	3,868,025	
May-02	3,937,106	46,804,135	3,900,345	11,035,719
Jun-02	4,950,271	47,630,730	3,969,228	
Jul-02	4,643,888	47,649,630	3,970,803	
Aug-02	4,750,358	47,500,470	3,958,373	
Sep-02	5,102,600	46,570,158	3,880,847	14,496,846
Oct-02	3,974,889	46,120,345	3,843,362	
Nov-02	2,048,483	44,087,358	3,673,947	
Dec-02	2,141,065	43,190,037	3,599,170	
Jan-03	3,578,775	43,637,365	3,636,447	7,495,216
Feb-03	1,540,963	41,895,384	3,491,282	
Mar-03	2,375,478	41,192,218	3,432,685	
Apr-03	2,130,629	41,174,505	3,431,209	
May-03	3,111,650	40,349,049	3,362,421	9,649,889
Jun-03	4,407,610	39,806,388	3,317,199	
Jul-03	4,203,745	39,366,245	3,280,520	
Aug-03	4,150,612	38,766,499	3,230,542	
Sep-03	3,530,010	37,193,909	3,099,492	11,884,367
Oct-03	3,027,060	36,246,080	3,020,507	
Nov-03	3,591,714	37,789,311	3,149,109	
Dec-03	2,617,252	38,265,498	3,188,792	
Jan-04	3,239,012	37,925,735	3,160,478	9,269,046
Feb-04	3,763,084	40,147,856	3,345,655	
Mar-04	2,266,950	40,039,328	3,336,611	
Apr-04	2,598,214	40,506,913	3,375,576	
May-04	3,524,160	40,919,423	3,409,952	10,867,929
Jun-04	4,745,555	41,257,368	3,438,114	
Jul-04	4,558,213	41,611,836	3,467,653	
Aug-04	4,053,239	41,514,463	3,459,539	
Sep-04	3,981,622	41,966,075	3,497,173	12,593,074
Oct-04	3,175,522	42,114,537	3,509,545	
Nov-04	3,039,619	41,562,442	3,463,537	
Dec-04	2,538,254	41,483,444	3,456,954	
Jan-05	2,995,970	41,240,402	3,436,700	6,301,755
Feb-05	954,621	38,431,939	3,202,662	
Mar-05	2,351,164	38,516,153	3,209,679	
Apr-05	3,326,730	39,244,669	3,270,389	
May-05	3,420,816	39,141,325	3,261,777	9,713,382
Jun-05	2,965,836	37,361,606	3,113,467	
Jul-05	2,688,930	35,492,323	2,957,694	
Aug-05	2,745,802	34,184,886	2,848,741	
Sep-05	2,332,465	32,535,729	2,711,311	7,767,197
Oct-05	1,781,061	31,141,268	2,595,106	
Nov-05	1,038,195	29,139,844	2,428,320	
Dec-05	4,078,065	30,679,655	2,556,638	
Jan-06	1,786,295	29,469,980	2,455,832	6,897,321

Table 2
Evaporation Pond Discharge Volume

	Monthly Total	12 Month Cumulative	12 Month Average	Quarterly Total
Feb-06	1,576,092	30,091,451	2,507,621	4,664,557
Mar-06	1,302,170	29,042,457	2,420,205	
Apr-06	2,181,583	27,897,310	2,324,776	
May-06	2,314,738	26,791,232	2,232,603	6,656,351
Jun-06	2,160,030	25,985,426	2,165,452	
Jul-06	2,477,832	25,774,328	2,147,861	
Aug-06	2,560,102	25,588,628	2,132,386	7,442,174
Sep-06	2,404,240	25,660,403	2,138,367	
Oct-06	1,164,134	25,043,476	2,086,956	
Nov-06	1,469,601	25,474,882	2,122,907	6,321,522
Dec-06	3,687,787	25,084,604	2,090,384	
Jan-07	2,829,728	26,128,037	2,177,336	
Feb-07	1,587,313	26,139,258	2,178,272	7,094,382
Mar-07	2,677,341	27,514,429	2,292,869	
Apr-07	2,459,645	27,792,491	2,316,041	
May-07	3,749,697	29,227,450	2,435,621	10,042,209
Jun-07	3,832,867	30,900,287	2,575,024	
Jul-07	3,250,085	31,672,540	2,639,378	
Aug-07	2,964,290	32,076,728	2,673,061	10,447,719
Sep-07	4,233,344	33,905,832	2,825,486	
Oct-07	2,640,854	35,382,552	2,948,546	
Nov-07	2,083,591	35,996,542	2,999,712	7,894,326
Dec-07	3,169,881	35,478,636	2,956,553	
Jan-08	1,308,257	33,957,165	2,829,764	
Feb-08	1,195,332	33,565,184	2,797,099	4,900,680
Mar-08	2,397,091	33,284,934	2,773,745	
Apr-08	2,724,097	33,549,386	2,795,782	
May-08	3,305,489	33,105,178	2,758,765	10,733,145
Jun-08	4,703,559	33,975,870	2,831,323	
Jul-08	4,053,708	34,779,493	2,898,291	
Aug-08	4,160,110	35,975,313	2,997,943	12,837,049
Sep-08	4,623,231	36,365,200	3,030,433	
Oct-08	2,175,441	35,899,787	2,991,649	
Nov-08	1,723,207	35,539,403	2,961,617	6,088,574
Dec-08	2,189,926	34,559,448	2,879,954	
Jan-09	4,243,568	37,494,759	3,124,563	
Feb-09	1,332,332	37,631,759	3,135,980	8,650,034
Mar-09	3,074,134	38,308,802	3,192,400	
Apr-09	3,743,004	39,327,709	3,277,309	
May-09	3,450,814	39,473,034	3,289,420	12,297,012
Jun-09	5,103,194	39,872,669	3,322,722	
Jul-09	5,810,764	41,629,725	3,469,144	
Aug-09	4,216,156	41,685,771	3,473,814	14,651,092
Sep-09	4,624,172	41,686,712	3,473,893	
Oct-09	2,617,044	42,128,315	3,510,693	
Nov-09	2,814,632	43,219,740	3,601,645	8,643,054
Dec-09	3,211,378	44,241,192	3,686,766	
Jan-10	591,104	40,588,728	3,382,394	
Feb-10	1,340,592	40,596,988	3,383,082	3,425,512
Mar-10	1,493,816	39,016,670	3,251,389	
Apr-10	2,694,588	37,968,254	3,164,021	
May-10	3,273,896	37,791,336	3,149,278	10,978,428
Jun-10	5,009,944	37,698,086	3,141,507	
Jul-10	4,627,952	36,515,274	3,042,940	
Aug-10	4,264,960	36,564,078	3,047,007	13,227,704
Sep-10	4,334,792	36,274,698	3,022,892	
Oct-10	2,654,848	36,312,502	3,026,042	
Nov-10	2,065,016	35,562,886	2,963,574	7,655,088
Dec-10	2,935,224	35,286,732	2,940,561	
Jan-11	1,501,352	36,196,980	3,016,415	
Feb-11	930,464	35,786,852	2,982,238	

Table 2
Evaporation Pond Discharge Volume

	Monthly Total	12 Month Cumulative	12 Month Average	Quarterly Total
Mar-11	1,362,752	35,655,788	2,971,316	3,794,568
Apr-11	2,122,712	35,083,912	2,923,659	8,071,200
May-11	2,344,240	34,154,256	2,846,188	
Jun-11	3,604,248	32,748,560	2,729,047	
Jul-11	3,331,562	31,452,170	2,621,014	
Aug-11	3,570,989	30,758,199	2,563,183	10,060,351
Sep-11	3,157,800	29,581,207	2,465,101	
Oct-11	2,554,782	29,481,141	2,456,762	
Nov-11	1,657,194	29,073,319	2,422,777	
Dec-11	1,852,132	27,990,227	2,332,519	6,064,108
Jan-12	1,747,803	28,236,678	2,353,057	6,714,937
Feb-12	1,539,536	28,845,750	2,403,813	
Mar-12	3,427,598	30,910,596	2,575,883	
Apr-12	3,992,856	32,780,740	2,731,728	
May-12	3,749,440	34,185,940	2,848,828	12,677,440
Jun-12	4,935,144	35,516,836	2,959,736	
Jul-12	4,928,942	37,114,216	3,092,851	
Aug-12	3,830,440	37,373,667	3,114,472	
Sep-12	4,758,703	38,974,570	3,247,881	13,518,085
Oct-12	3,149,724	39,569,512	3,297,459	7,436,047
Nov-12	2,918,303	40,830,621	3,402,552	
Dec-12	1,368,020	40,346,509	3,362,209	
Jan-13	2,147,108	40,745,814	3,395,485	
Feb-13	283,008	39,489,286	3,290,774	5,009,812
Mar-13	2,579,696	38,641,384	3,220,115	
Apr-13	2,608,004	37,256,532	3,104,711	
May-13	3,782,928	37,290,020	3,107,502	
Jun-13	4,483,639	36,838,515	3,069,876	10,874,571
Jul-13	3,904,177	35,813,750	2,984,479	12,655,353
Aug-13	4,380,264	36,363,574	3,030,298	
Sep-13	4,370,912	35,975,783	2,997,982	
Oct-13	2,602,304	35,428,363	2,952,364	
Nov-13	1,597,072	34,107,132	2,842,261	5,132,320
Dec-13	932,944	33,672,056	2,806,005	
Jan-14	962,288	32,487,236	2,707,270	
Feb-14	1,100,232	33,304,460	2,775,372	
Mar-14	2,364,856	33,089,620	2,757,468	4,427,376
Apr-14	2,288,464	32,770,080	2,730,840	10,075,578
May-14	3,409,337	32,396,489	2,699,707	
Jun-14	4,377,777	32,290,627	2,690,886	
Jul-14	4,439,752	32,826,202	2,735,517	
Aug-14	4,343,364	32,789,302	2,732,442	13,102,894
Sep-14	4,319,778	32,738,168	2,728,181	
Oct-14	2,542,364	32,678,228	2,723,186	
Nov-14	1,711,566	32,792,722	2,732,727	
Dec-14	1,691,148	33,550,926	2,795,911	5,945,078
Jan-15	1,432,512	34,021,150	2,835,096	4,963,515
Feb-15	1,529,045	34,449,963	2,870,830	
Mar-15	2,001,958	34,087,065	2,840,589	
Apr-15	2,221,778	34,020,379	2,835,032	
May-15	1,218,467	31,829,509	2,652,459	8,479,995
Jun-15	5,039,750	32,491,482	2,707,624	
Jul-15	4,562,711	32,614,441	2,717,870	
Aug-15	4,725,594	32,996,671	2,749,723	
Sep-15	3,856,472	32,533,365	2,711,114	13,144,777
Oct-15	1,298,326	31,289,327	2,607,444	3,337,750
Nov-15	1,111,868	30,689,629	2,557,469	
Dec-15	927,556	29,926,037	2,493,836	
Jan-16	987,984	29,481,509	2,456,792	
Feb-16	1,583,594	29,536,058	2,461,338	4,106,665
Mar-16	1,535,087	29,069,187	2,422,432	

Table 2
Evaporation Pond Discharge Volume

	Monthly Total	12 Month Cumulative	12 Month Average	Quarterly Total
Apr-16	1,812,245	28,659,654	2,388,305	8,741,901
May-16	2,714,943	30,156,130	2,513,011	
Jun-16	4,214,713	29,331,093	2,444,258	
Jul-16	4,988,299	29,756,681	2,479,723	13,958,765
Aug-16	4,902,870	29,933,957	2,494,496	
Sep-16	4,067,596	30,145,081	2,512,090	
Oct-16	2,553,972	31,400,727	2,616,727	6,084,514
Nov-16	1,182,796	31,471,655	2,622,638	
Dec-16	2,347,746	32,891,845	2,740,987	
Jan-17	895,824	32,799,685	2,733,307	3,424,282
Feb-17	882,986	32,099,077	2,674,923	
Mar-17	1,645,472	32,209,462	2,684,122	
Apr-17	2,619,988	33,017,205	2,751,434	9,703,592
May-17	3,069,552	33,371,814	2,780,985	
Jun-17	4,014,052	33,171,153	2,764,263	
Jul-17	5,217,836	33,400,690	2,783,391	14,011,026
Aug-17	4,725,594	33,223,414	2,768,618	
Sep-17	4,067,596	33,223,414	2,768,618	
Oct-17	1,298,326	31,967,768	2,663,981	3,888,464
Nov-17	1,657,194	32,442,166	2,703,514	
Dec-17	932,944	31,027,364	2,585,614	
Jan-18	236,168	30,367,708	2,530,642	3,502,885
Feb-18	1,464,848	30,949,570	2,579,131	
Mar-18	1,801,869	31,105,967	2,592,164	
Apr-18	2,984,041	31,470,020	2,622,502	10,578,849
May-18	1,742,927	30,143,395	2,511,950	
Jun-18	5,851,881	31,981,224	2,665,102	
Jul-18	4,901,040	31,664,428	2,638,702	15,298,270
Aug-18	5,075,686	32,014,520	2,667,877	
Sep-18	5,321,544	33,268,468	2,772,372	
Oct-18	3,532,080	35,502,222	2,958,519	7,751,219
Nov-18	1,731,221	35,576,249	2,964,687	
Dec-18	2,487,918	37,131,223	3,094,269	
Jan-19	1,969,835	38,864,890	3,238,741	2,724,282
Feb-19	467,422	37,867,464	3,155,622	
Mar-19	287,025	36,352,620	3,029,385	
Apr-19	2,570,463	35,939,042	2,994,920	8,932,396
May-19	2,654,643	36,850,758	3,070,897	
Jun-19	3,707,290	34,706,167	2,892,181	
Jul-19	4,054,589	33,859,716	2,821,643	10,370,065
Aug-19	4,252,596	33,036,626	2,753,052	
Sep-19	2,062,880	29,777,962	2,481,497	
Oct-19	1,386,727	27,632,609	2,302,717	4,240,009
Nov-19	2,487,918	28,389,306	2,365,776	
Dec-19	365,364	26,266,752	2,188,896	
Jan-20	48,375	24,345,292	2,028,774	71,140
Feb-20	22,765	23,900,635	1,991,720	
Mar-20	0	23,613,610	1,967,801	
Apr-20	0	21,043,147	1,753,596	0
May-20	0	18,388,504	1,532,375	
Jun-20	0	14,681,214	1,223,435	

Table 3
Groundwater Monitoring Results - Year to Date

Quarter	Analyte	EPA Method	Reporting Limit	Units	Sample ID				
					MW-1	MW-2	MW-3	MW-4	DUP ¹
Q1 2020	Sodium	6010B	0.50	mg/L	350	330	270	230	360
Q2 2020	Sodium	6010B	0.50	mg/L	320	350	270	220	340
Q1 2020	Sulfate	300.0	25	mg/L	330	230	210	190	330
Q2 2020	Sulfate	300.0	25	mg/L	340	230	210	200	340
Q1 2020	Total Dissolved Solids	SM2540C	10	mg/L	1,300	1,100	910	840	1,300
Q2 2020	Total Dissolved Solids	SM2540C	10	mg/L	1,200	1,100	920	830	1,200
Q1 2020	Temperature	Field Parameter	N/A	Degrees Celsius	21.9	21.9	20.9	21.3	21.9
Q2 2020	Temperature	Field Parameter	N/A	Degrees Celsius	30.1	27.4	26.0	23.8	30.1
Q1 2020	pH	Field Parameter	N/A	Standard Units	7.40	7.36	7.33	7.16	7.40
Q2 2020	pH	Field Parameter	N/A	Standard Units	7.40	7.27	7.35	7.23	7.40
Q1 2020	Specific Conductivity	Field Parameter	N/A	µmhos/cm	2,090	1,980	1,660	1,500	2,090
Q2 2020	Specific Conductivity	Field Parameter	N/A	µmhos/cm	2,080	1,980	1,660	1,500	2,080
Q1 2020	Static Water Level	Field Parameter	N/A	Feet amsl	2,303.35	2,212.92	2,282.50	2,284.25	2,303.35
Q2 2020	Static Water Level	Field Parameter	N/A	Feet amsl	2,303.25	2,225.42	2,282.65	2,284.58	2,303.25

Notes:

ND = Not Detected at or above the laboratory reporting limit

¹ - The duplicate sample was collected from MW-1 in the first and second quarters of 2020.

² - Not sampled due to low water levels

Table 4
Neutron Probe Monitoring Results - Horizontal Wells

Distance from Point of Entry (feet)	Percent Moisture by Volume - First Quarter 2020									
	HN-1 (% H ₂ O)	HN-2 (% H ₂ O)	HN-3 (% H ₂ O)	HN-4 (% H ₂ O)	HN-5 (% H ₂ O)	HN-6 (% H ₂ O)	HN-7 (% H ₂ O)	HN-8 (% H ₂ O)	HN-9 (% H ₂ O)	HN-10 (% H ₂ O)
West Side of Ponds										
25	13.56	14.96	13.80	13.78	14.78	22.60	13.16	21.37	14.95	18.15
50	8.83	9.28	12.22	9.89	10.53	11.71	13.25	16.13	9.83	12.45
75	10.36	16.95	15.19	11.50	15.63	16.92	12.26	15.62	15.62	11.93
100	10.82	10.78	14.77	11.76	9.12	7.05	13.15	10.20	8.61	11.70
200	11.53	8.70	12.31	8.79	7.61	7.88	8.78	8.80	13.55	10.92
300	10.99	8.98	9.73	8.25	9.82	8.12	12.53	10.28	9.60	10.44
400	14.47	8.34	8.76	9.02	7.64	7.82	13.81	9.42	9.24	12.09
500	9.76	8.43	9.66	8.80	8.33	9.33	15.63	10.68	10.28	9.37
East Side of Ponds										
25	17.03	10.49	12.46	14.94	14.71	11.03	15.41	14.18	16.00	9.86
50	13.81	12.65	11.24	9.24	13.42	14.26	12.52	15.56	11.20	10.22
75	11.58	12.97	10.97	9.16	11.50	13.06	12.86	10.24	10.17	10.52
100	11.95	11.68	8.00	11.43	10.82	12.18	13.27	10.49	8.70	9.88
200	11.70	8.52	12.31	10.09	9.40	8.89	14.73	9.32	9.44	9.18
300	9.91	8.53	9.82	8.50	8.65	9.93	16.49	8.40	9.83	9.35
400	15.53	10.21	8.58	8.92	7.80	8.33	16.30	9.08	9.01	10.94
500	9.51	8.93	12.80	8.96	8.42	8.51	12.12	10.11	8.40	11.08

Note: Data collected using a CPN Model 503 DR Hydro-Probe™ Neutron Moisture Gauge

Distance from Point of Entry (feet)	Percent Moisture by Volume - Second Quarter 2020									
	HN-1 (% H ₂ O)	HN-2 (% H ₂ O)	HN-3 (% H ₂ O)	HN-4 (% H ₂ O)	HN-5 (% H ₂ O)	HN-6 (% H ₂ O)	HN-7 (% H ₂ O)	HN-8 (% H ₂ O)	HN-9 (% H ₂ O)	HN-10 (% H ₂ O)
West Side of Ponds										
25	16.41	14.35	14.22	4.72	12.86	41.66	26.61	42.28	21.63	26.44
50	9.99	18.33	15.98	10.10	13.42	27.58	31.42	25.30	24.25	36.00
75	10.05	35.63	28.20	11.86	30.63	36.90	18.25	17.44	37.70	31.07
100	11.16	26.45	32.07	10.47	22.06	29.11	15.34	10.33	26.84	20.32
200	17.55	22.81	12.09	8.85	11.80	20.34	12.73	10.55	31.95	19.65
300	17.99	16.32	9.85	8.49	9.00	15.31	15.60	10.45	21.64	14.44
400	22.81	8.42	9.49	9.32	12.38	12.28	14.55	8.92	18.61	13.35
500	13.53	8.79	9.35	8.99	7.89	9.51	15.25	10.78	19.26	11.56
East Side of Ponds										
25	13.35	10.02	13.72	12.02	11.41	11.07	14.67	12.26	10.38	9.77
50	11.79	12.32	12.73	9.52	15.64	15.01	14.20	12.82	10.39	10.69
75	12.16	12.85	11.29	9.98	11.48	13.07	11.71	11.42	10.17	10.24
100	12.01	11.99	10.00	11.04	10.97	12.54	13.18	9.41	9.02	11.41
200	12.09	9.71	10.21	11.29	9.24	9.67	14.80	9.21	9.45	10.68
300	10.13	8.67	9.26	8.45	9.30	10.02	16.28	8.92	9.44	8.90
400	12.99	8.43	9.07	8.75	8.10	8.50	16.99	9.44	9.04	10.99
500	10.44	8.92	13.58	8.95	8.58	8.44	12.89	10.03	8.47	11.09

Note: Data collected using a CPN Model 503 DR Hydro-Probe™ Neutron Moisture Gauge

Table 5
Neutron Probe Monitoring Results - Vertical Wells

Distance from Point of Entry (feet)	Percent Moisture by Volume - First Quarter 2020										
	VN-1 (% H ₂ O)	VN-2 (% H ₂ O)	VN-3 (% H ₂ O)	VN-4 (% H ₂ O)	VN-5 (% H ₂ O)	VN-6 (% H ₂ O)	VN-7 (% H ₂ O)	VN-8 (% H ₂ O)	VN-9 (% H ₂ O)	VN-10 (% H ₂ O)	VN-11 (% H ₂ O)
5	1.41		1.38	2.18	1.48	1.54	1.81	1.43	1.88	1.93	1.16
10	1.64		1.82	2.60	1.35	1.98	2.23	1.64	1.83	2.13	1.18
15	1.59		1.79	1.89	0.78	2.27	1.77	1.82	1.43	1.62	1.79
20	1.25		1.13	1.74	1.51	1.49	2.06	1.92	1.09	1.85	1.92
25	2.06		1.75	1.00	1.77	2.20	2.40	1.29	1.79	1.88	1.94
30	2.01		1.57	1.64	1.50	2.33	1.65	1.48	1.51	0.87	1.19
35	1.94		1.44	1.50	1.51	2.58	1.74	1.93	1.86	1.26	1.46
40	1.26		2.00	2.07	1.77	1.98	2.09	1.52	1.77	1.87	2.09
45	1.46		2.04	1.68	1.78	1.30	1.04	1.39	2.38	1.58	1.86
50	1.24		1.78	1.86	1.77	2.76	2.67		2.09	2.59	
55			1.51	2.05		2.53	1.50				
60						2.22	2.55				

Note: Data collected using a CPN Model 503 DR Hydro-Probe™ Neutron Moisture Gauge

Distance from Point of Entry (feet)	Percent Moisture by Volume - Second Quarter 2020										
	VN-1 (% H ₂ O)	VN-2 (% H ₂ O)	VN-3 (% H ₂ O)	VN-4 (% H ₂ O)	VN-5 (% H ₂ O)	VN-6 (% H ₂ O)	VN-7 (% H ₂ O)	VN-8 (% H ₂ O)	VN-9 (% H ₂ O)	VN-10 (% H ₂ O)	VN-11 (% H ₂ O)
5	1.29		2.01	2.41	1.61	1.34	1.79	1.54	1.81	1.95	1.19
10	1.82		1.77	2.10	1.37	1.83	2.34	1.65	1.84	2.06	1.22
15	1.62		1.05	2.14	0.82	2.32	2.30	1.83	1.38	1.63	1.78
20	1.20		1.27	1.52	1.77	1.51	2.19	1.34	1.04	1.84	1.98
25	2.06		0.58	1.17	1.80	2.24	2.28	1.63	1.73	0.92	1.98
30	2.11		0.94	1.71	1.48	2.29	1.64	1.78	1.52	1.33	1.25
35	2.06		0.94	1.49	1.50	2.59	1.89	1.66	1.96	1.94	1.53
40	1.26		1.13	2.17	1.78	2.04	1.97	1.40	1.85	1.61	2.09
45	1.33		1.22	1.64	1.77	1.35	1.21	100.00	2.48	2.75	1.85
50	1.27		0.83	2.04	1.81	2.76	2.64		2.11	1.29	
55			1.20	2.04		2.37	1.76				
60						2.40	2.62				

Note: Data collected using a CPN Model 503 DR Hydro-Probe™ Neutron Moisture Gauge

CHARTS

Chart 1 - Hydrographs

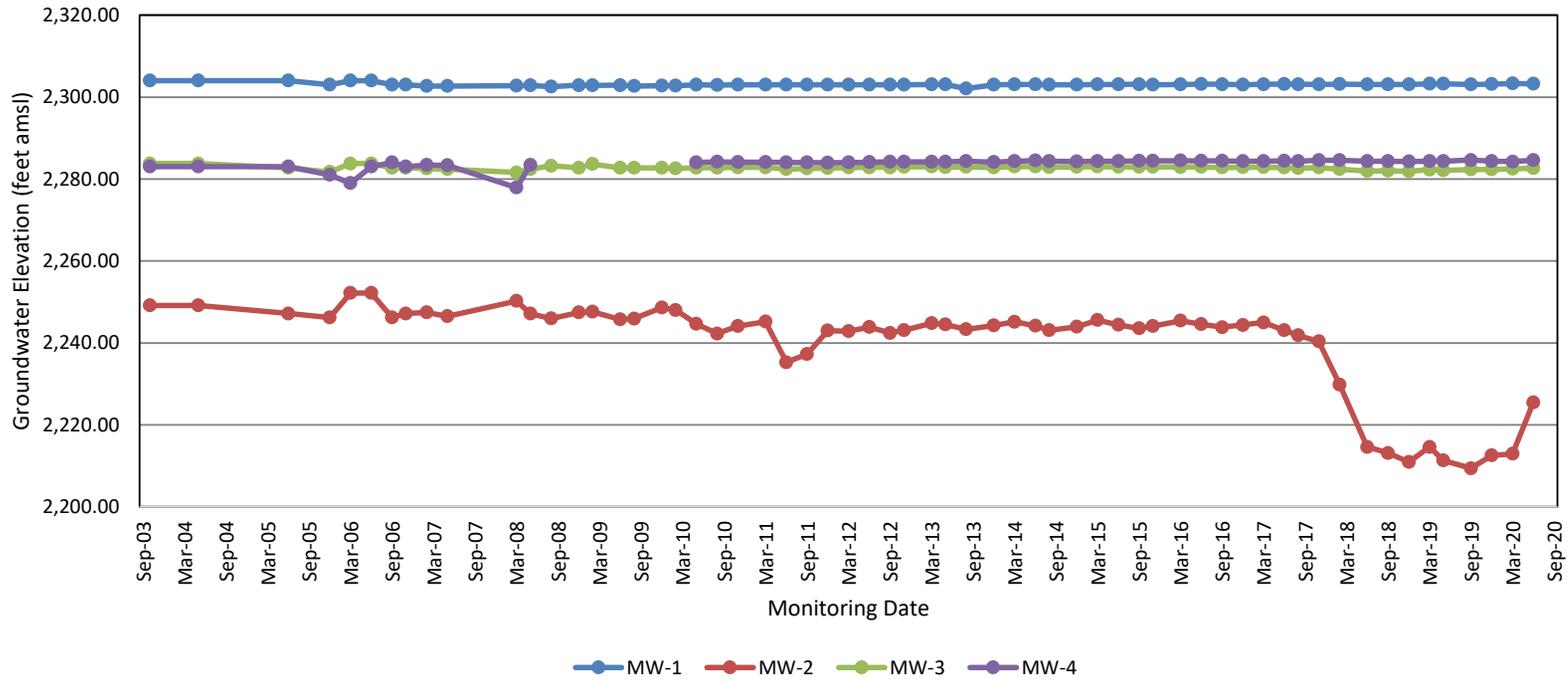


Chart 3 - Groundwater pH

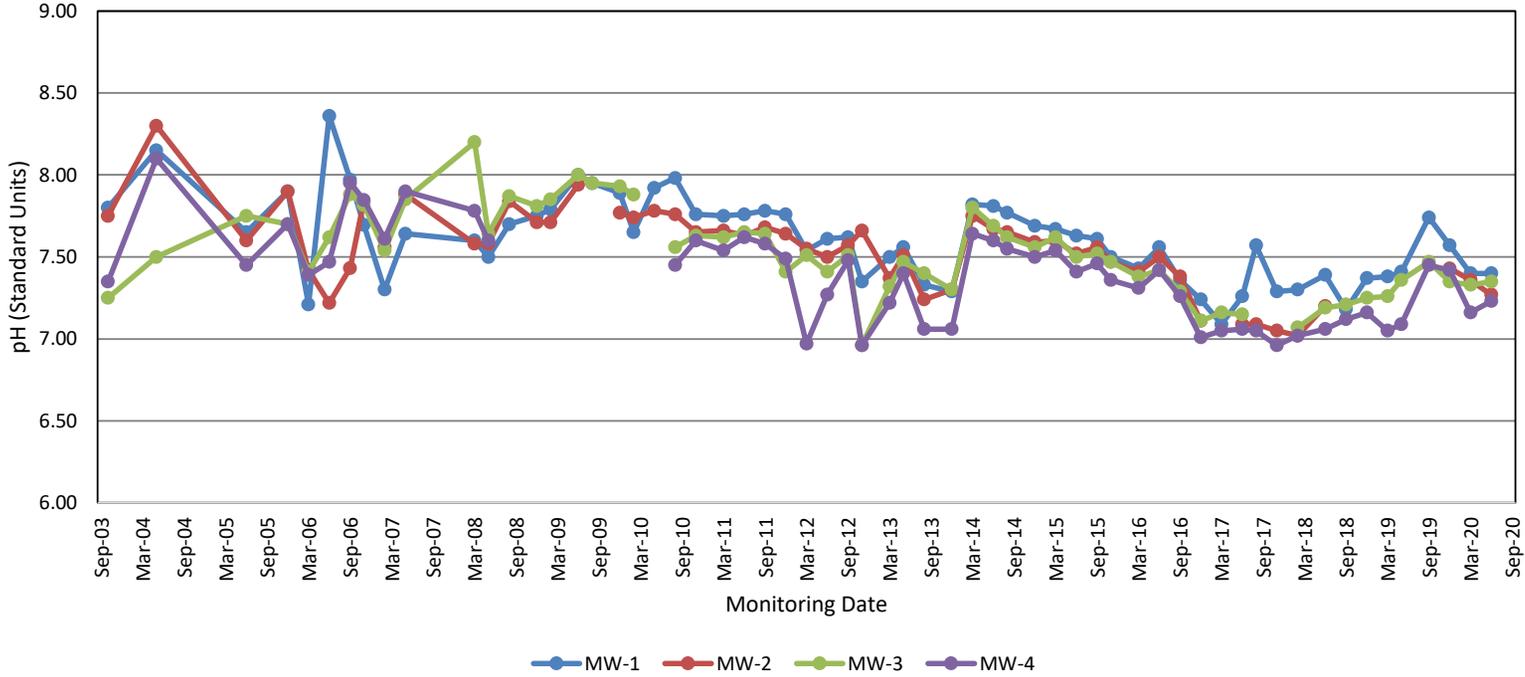
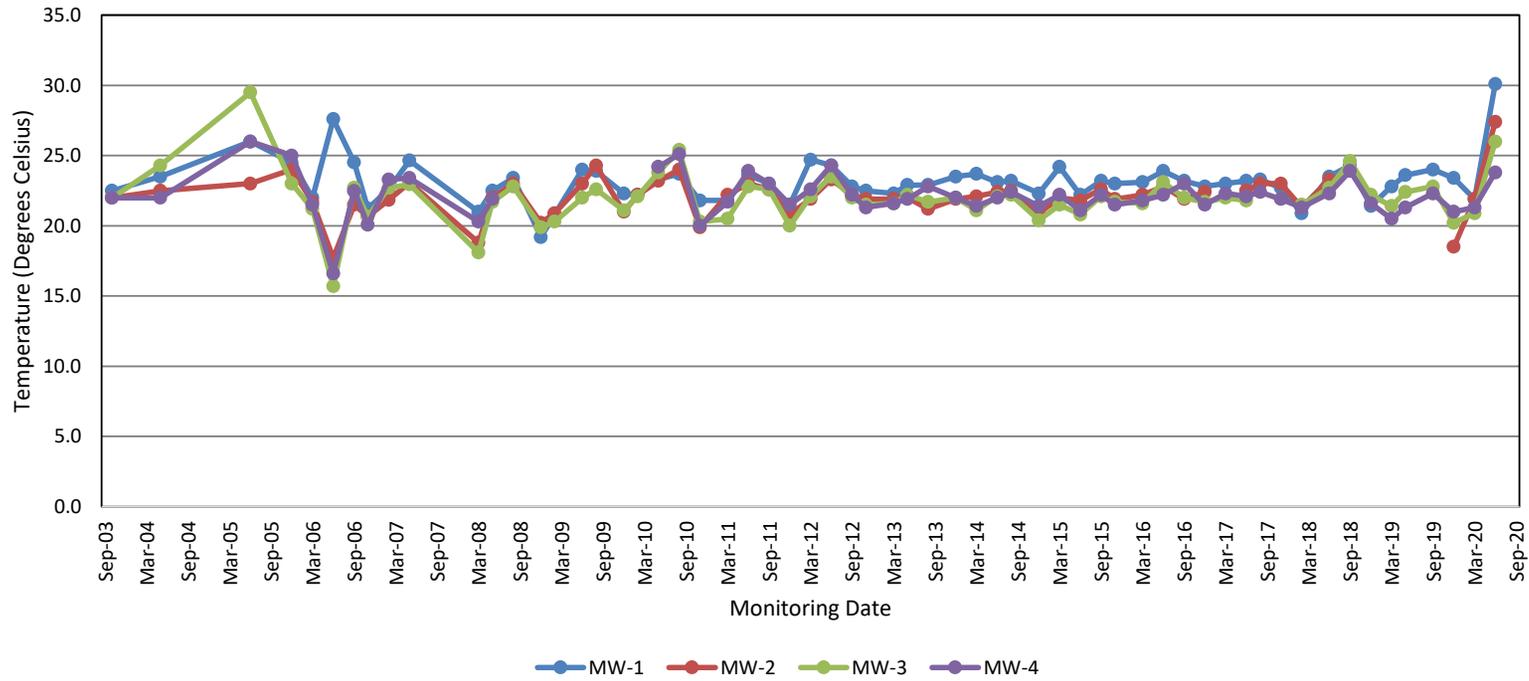


Chart 4 - Groundwater Temperature



APPENDIX A

GROUNDWATER MONITORING WELL SAMPLING RECORDS

MONITORING WELL SAMPLING RECORD

Project: SEGS III - VII Kramer Junction
 Date: March 17, 2020

Technician: Ralph De La Parra
 Weather: Clear, Cool

Purge Volume Calculations			
Monitoring Well ID:	MW-1	Depth to Water:	170.65 ft btoc (b)
Elevation of Top of Casing:	2474.00 ft amsl (a)	Water Elevation (a - b):	2303.35 ft amsl (c)
Well Depth:	335.50 ft btoc	Water Thickness (c - d):	164.85 feet (e)
Elevation of Bottom of Well:	2138.50 ft amsl (d)	One Casing Volume (e * 1.47):	242.33 gallons (f)
Casing Inside Diameter:	6.0 inches	Three Casing Volumes (f * 3):	726.99 gallons

Monitoring Well Purge Data						
Purging Apparatus:		Dedicated Pump				
Sampling Apparatus:		Pump Discharge				
Decon Methods:						
Time	Purge Rate (gpm)	Purge Volume (gallons)	Temp (Deg C)	pH	Specific Conductivity (µmhos/cm)	Notes
718	20	60	19.6	7.70	2,200	Clear, odorless
720	20	100	21.8	7.40	2,090	Clear, odorless
725	20	200	21.8	7.40	2,090	Clear, odorless
730	20	300	21.8	7.40	2,090	Clear, odorless
745	20	600	21.9	7.40	2,090	Clear, odorless
755	20	800	21.9	7.40	2,090	Clear, odorless
Total Purged:		800 gallons	Casing Volumes Purged:		3.30 volumes	
Additional Notes or Comments:						

Sample Inventory					
Sample ID	Time	# of Bottles	Analysis	Filtered	Notes
MW-1-3-17-20	755	1	Quarterly	No	
Dup-3-17-20		1	Quarterly	No	Dup Collected

MONITORING WELL SAMPLING RECORD

Project: SEGS III - VII Kramer Junction
 Date: March 17, 2020

Technician: Ralph De La Parra
 Weather: Clear, Cool

Purge Volume Calculations			
Monitoring Well ID:	MW-2	Depth to Water:	232.25 ft btoc (b)
Elevation of Top of Casing:	2454.17 ft amsl (a)	Water Elevation (a - b):	2212.92 ft amsl (c)
Well Depth:	257.80 ft btoc	Water Thickness (c - d):	25.55 feet (e)
Elevation of Bottom of Well:	2196.37 ft amsl (d)	One Casing Volume (e * 1.47):	37.56 gallons (f)
Casing Inside Diameter:	6.0 inches	Three Casing Volumes (f * 3):	112.68 gallons

Monitoring Well Purge Data						
Purging Apparatus:			Dedicated Pump			
Sampling Apparatus:			Pump Discharge			
Decon Methods:						
Time	Purge Rate (gpm)	Purge Volume (gallons)	Temp (Deg C)	pH	Specific Conductivity (µmhos/cm)	Notes
1510		15	20.8	7.50	2,003	Very Cloudy, odorless
1520		30	21.5	7.45	1,980	Very Cloudy, odorless
1530		45	21.7	7.36	1,980	Very Cloudy, odorless
1550		75	21.9	7.36	1,980	Very Cloudy, odorless
Total Purged:		75 gallons	Casing Volumes Purged:		2.00 volumes	
Note: 55Hz on VFD to get 1.5 GPM						

Sample Inventory					
Sample ID	Time	# of Bottles	Analysis	Filtered	Notes
MW-2-3-17-20		3	Quarterly	No	

MONITORING WELL SAMPLING RECORD

Project: SEGS III - VII Kramer Junction
 Date: March 17, 2020

Technician: Ralph De La Parra
 Weather: Clear, Cool

Purge Volume Calculations			
Monitoring Well ID:	MW-3	Depth to Water:	172.25 ft btoc (b)
Elevation of Top of Casing:	2454.75 ft amsl (a)	Water Elevation (a - b):	2282.50 ft amsl (c)
Well Depth:	259.00 ft btoc	Water Thickness (c - d):	86.75 feet (e)
Elevation of Bottom of Well:	2195.75 ft amsl (d)	One Casing Volume (e * 1.47):	127.52 gallons (f)
Casing Inside Diameter:	6.0 inches	Three Casing Volumes (f * 3):	383 gallons

Monitoring Well Purge Data						
Purging Apparatus:		Dedicated Pump				
Sampling Apparatus:		Pump Discharge				
Decon Methods:						
Time	Purge Rate (gpm)	Purge Volume (gallons)	Temp (Deg C)	pH	Specific Conductivity (µmhos/cm)	Notes
1215	3	15	19.9	7.76	1,660	Clear, Odorless
1220	3	30	20.2	7.62	1,660	Clear, Odorless
1240	3	90	20.3	7.60	1,670	Clear, Odorless
1310	3	180	20.6	7.30	1,660	Clear, Odorless
1340	3	270	20.7	7.32	1,660	Clear, Odorless
1410	3	360	20.8	7.32	1,660	Clear, Odorless
1424	3	402	20.9	7.33	1,660	Clear, Odorless
Total Purged:		402 gallons	Casing Volumes Purged:		3.15 volumes	
Note: 51Hz on VFD to get 3 GPM						

Sample Inventory					
Sample ID	Time	# of Bottles	Analysis	Filtered	Notes
MW-3-3-17-20		1	Quarterly	No	

MONITORING WELL SAMPLING RECORD

Project: SEGS III - VII Kramer Junction Technician: Ralph De La Parra
 Date: March 17, 2020 Weather: Clear, Cool

Purge Volume Calculations			
Monitoring Well ID:	MW-4	Depth to Water:	174.78 ft btoc (b)
Elevation of Top of Casing:	2459.03 ft amsl (a)	Water Elevation (a - b):	2284.25 ft amsl (c)
Well Depth:	258.50 ft btoc	Water Thickness (c - d):	83.72 feet (e)
Elevation of Bottom of Well:	2200.53 ft amsl (d)	One Casing Volume (e * 1.47):	123.07 gallons (f)
Casing Inside Diameter:	6.0 inches	Three Casing Volumes (f * 3):	369.21 gallons

Monitoring Well Purge Data						
Purging Apparatus:		Dedicated Pump				
Sampling Apparatus:		Pump Discharge				
Decon Methods:						
Time	Purge Rate (gpm)	Purge Volume (gallons)	Temp (Deg C)	pH	Specific Conductivity (µmhos/cm)	Notes
815	10	50	18.3	7.55	1,490	Clear, odorless
820	10	100	19.8	7.21	1,500	Clear, odorless
830	10	200	21.0	7.16	1,500	Clear, odorless
840	10	300	21.2	7.16	1,500	Clear, odorless
850	10	400	21.3	7.16	1,500	Clear, odorless
Total Purged:		400 gallons	Casing Volumes Purged:		3.25 volumes	
Additional Notes or Comments:						

Sample Inventory					
Sample ID	Time	# of Bottles	Analysis	Filtered	Notes
MW-4-3-17-19	850	1	Quarterly	No	

MONITORING WELL SAMPLING RECORD

Project: SEGS III - VII Kramer Junction Technician: Ralph De La Parra
 Date: June 15, 2020 Weather: Clear, warm

Purge Volume Calculations			
Monitoring Well ID:	MW-1	Depth to Water:	170.75 ft btoc (b)
Elevation of Top of Casing:	2474.00 ft amsl (a)	Water Elevation (a - b):	2303.25 ft amsl (c)
Well Depth:	335.50 ft btoc	Water Thickness (c - d):	164.75 feet (e)
Elevation of Bottom of Well:	2138.50 ft amsl (d)	One Casing Volume (e * 1.47):	242.18 gallons (f)
Casing Inside Diameter:	6.0 inches	Three Casing Volumes (f * 3):	726.54 gallons

Monitoring Well Purge Data						
Purging Apparatus:		Dedicated Pump				
Sampling Apparatus:		Pump Discharge				
Decon Methods:						
Time	Purge Rate (gpm)	Purge Volume (gallons)	Temp (Deg C)	pH	Specific Conductivity (µmhos/cm)	Notes
1011	20	20	22.4	7.41	2,160	Clear, odorless
1015	20	100	22.7	7.40	2,060	Clear, odorless
1020	20	200	22.8	7.40	2,080	Clear, odorless
1025	20	300	22.9	7.40	2,080	Clear, odorless
1040	20	600	30.0	7.40	2,080	Clear, odorless
1050	20	800	30.1	7.40	2,080	Clear, odorless
Total Purged:		800 gallons	Casing Volumes Purged:		3.30 volumes	
Additional Notes or Comments:						

Sample Inventory					
Sample ID	Time	# of Bottles	Analysis	Filtered	Notes
MW-1-6-15-20	1050	1	Quarterly	No	
Dup-6-15-20		1	Quarterly	No	Dup Collected

MONITORING WELL SAMPLING RECORD

Project: SEGS III - VII Kramer Junction Technician: Ralph De La Parra
 Date: June 15, 2020 Weather: Clear, warm

Purge Volume Calculations			
Monitoring Well ID:	MW-2	Depth to Water:	228.75 ft btoc (b)
Elevation of Top of Casing:	2454.17 ft amsl (a)	Water Elevation (a - b):	2225.42 ft amsl (c)
Well Depth:	257.80 ft btoc	Water Thickness (c - d):	29.05 feet (e)
Elevation of Bottom of Well:	2196.37 ft amsl (d)	One Casing Volume (e * 1.47):	42.7 gallons (f)
Casing Inside Diameter:	6.0 inches	Three Casing Volumes (f * 3):	128.1 gallons

Monitoring Well Purge Data						
Purging Apparatus:		Dedicated Pump				
Sampling Apparatus:		Pump Discharge				
Decon Methods:						
Time	Purge Rate (gpm)	Purge Volume (gallons)	Temp (Deg C)	pH	Specific Conductivity (µmhos/cm)	Notes
1150	1.5	15	24.3	7.13	2,000	Very Cloudy, odorless
1200	1.5	30	24.4	7.14	1,980	Very Clear, odorless
1210	1.5	45	24.5	7.23	1,980	Very Clear, odorless
1230	1.5	75	25.9	7.27	1,980	Very Clear, odorless
1240	1.5	90	26.4	7.27	1,980	Very Clear, odorless
1250	1.5	105	26.9	7.27	1,980	Very Clear, odorless
1300	1.5	120	27.1	7.27	1,980	Very Clear, odorless
1310	1.5	135	27.4	7.27	1,980	Very Clear, odorless
Total Purged:		135 gallons	Casing Volumes Purged:		3.16 volumes	
Note: 55Hz on VFD to get 1.5 GPM						

Sample Inventory					
Sample ID	Time	# of Bottles	Analysis	Filtered	Notes
MW-2-6-15-20	1310	1	Quarterly	No	

MONITORING WELL SAMPLING RECORD

Project: SEGS III - VII Kramer Junction Technician: Ralph De La Parra
 Date: June 15, 2020 Weather: Clear, Warm

Purge Volume Calculations			
Monitoring Well ID:	MW-3	Depth to Water:	172.1 ft btoc (b)
Elevation of Top of Casing:	2454.75 ft amsl (a)	Water Elevation (a - b):	2282.65 ft amsl (c)
Well Depth:	259.00 ft btoc	Water Thickness (c - d):	86.9 feet (e)
Elevation of Bottom of Well:	2195.75 ft amsl (d)	One Casing Volume (e * 1.47):	127.74 gallons (f)
Casing Inside Diameter:	6.0 inches	Three Casing Volumes (f * 3):	383.22 gallons

Monitoring Well Purge Data						
Purging Apparatus:		Dedicated Pump				
Sampling Apparatus:		Pump Discharge				
Decon Methods:						
Time	Purge Rate (gpm)	Purge Volume (gallons)	Temp (Deg C)	pH	Specific Conductivity (µmhos/cm)	Notes
1340	3	30	27.0	7.18	1,660	Clear, Odorless
1350	3	90	24.8	7.31	1,660	Clear, Odorless
1400	3	120	25.1	7.33	1,660	Clear, Odorless
1420	3	180	25.3	7.34	1,660	Clear, Odorless
1450	3	270	25.9	7.35	1,660	Clear, Odorless
1520	3	360	26.0	7.35	1,660	Clear, Odorless
1530	3	390	26.0	7.35	1,660	Clear, Odorless
Total Purged:		390 gallons	Casing Volumes Purged:		3.05 volumes	
Note: 51Hz on VFD to get 3 GPM						

Sample Inventory					
Sample ID	Time	# of Bottles	Analysis	Filtered	Notes
MW-3-6-15-20	1530	1	Quarterly	No	

MONITORING WELL SAMPLING RECORD

Project: SEGS III - VII Kramer Junction Technician: Ralph De La Parra
 Date: June 15, 2020 Weather: Clear, Warm

Purge Volume Calculations			
Monitoring Well ID:	MW-4	Depth to Water:	174.45 ft btoc (b)
Elevation of Top of Casing:	2459.03 ft amsl (a)	Water Elevation (a - b):	2284.58 ft amsl (c)
Well Depth:	258.50 ft btoc	Water Thickness (c - d):	84.05 feet (e)
Elevation of Bottom of Well:	2200.53 ft amsl (d)	One Casing Volume (e * 1.47):	123.55 gallons (f)
Casing Inside Diameter:	6.0 inches	Three Casing Volumes (f * 3):	370.65 gallons

Monitoring Well Purge Data						
Purging Apparatus:		Dedicated Pump				
Sampling Apparatus:		Pump Discharge				
Decon Methods:						
Time	Purge Rate (gpm)	Purge Volume (gallons)	Temp (Deg C)	pH	Specific Conductivity (µmhos/cm)	Notes
1545	10	50	23.1	7.19	1,495	Clear, odorless
1550	10	100	23.2	7.22	1,500	Clear, odorless
1600	10	200	23.4	7.23	1,500	Clear, odorless
1610	10	300	23.6	7.23	1,500	Clear, odorless
1620	10	400	23.8	7.23	1,500	Clear, odorless
Total Purged:		400 gallons	Casing Volumes Purged:		3.24 volumes	
Additional Notes or Comments:						

Sample Inventory					
Sample ID	Time	# of Bottles	Analysis	Filtered	Notes
MW-4-6-15-20	1620	1	Quarterly	No	

APPENDIX B

LABORATORY REPORTS

ANALYTICAL REPORT

Eurofins Calscience Irvine
17461 Derian Ave
Suite 100
Irvine, CA 92614-5817
Tel: (949)261-1022

Laboratory Job ID: 440-263226-1

Client Project/Site: Nextera Kramer Junction

For:

FPL Energy Solar Partners III-VII, LLC
41100 Highway 395
Boron, California 93516

Attn: Glen King



*Authorized for release by:
3/30/2020 5:00:06 PM*

Sheri Fama, Project Manager I
(949)260-3274
sherifama@testamericainc.com

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

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

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



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Sample Summary

Client: FPL Energy Solar Partners III-VII, LLC
Project/Site: Nextera Kramer Junction

Job ID: 440-263226-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
440-263226-1	MW-1-03-17-20	Water	03/17/20 07:55	03/17/20 18:45	
440-263226-2	MW-4-03-17-20	Water	03/17/20 08:50	03/17/20 18:45	
440-263226-3	MW-3-03-17-20	Water	03/17/20 14:24	03/17/20 18:45	
440-263226-4	MW-2-03-17-20	Water	03/17/20 15:50	03/17/20 18:45	
440-263226-5	Dup-03-17-20	Water	03/17/20 00:01	03/17/20 18:45	

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Case Narrative

Client: FPL Energy Solar Partners III-VII, LLC
Project/Site: Nextera Kramer Junction

Job ID: 440-263226-1

Job ID: 440-263226-1

Laboratory: Eurofins Calscience Irvine

Narrative

Job Narrative 440-263226-1

Comments

No additional comments.

Receipt

The samples were received on 3/17/2020 6:45 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 2.8° C.

Receipt Exceptions

The following samples were received with insufficient preservation for Sodium (metals analysis): MW-1-03-17-20 (440-263226-1), MW-4-03-17-20 (440-263226-2), MW-3-03-17-20 (440-263226-3), MW-2-03-17-20 (440-263226-4) and Dup-03-17-20 (440-263226-5).

The Field Sampler was not listed on the Chain of Custody.

HPLC/IC

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

Metals

Method 3005A: The following samples for metals were received unpreserved and were preserved upon receipt to the laboratory: MW-1-03-17-20 (440-263226-1), MW-4-03-17-20 (440-263226-2), MW-3-03-17-20 (440-263226-3), MW-2-03-17-20 (440-263226-4), Dup-03-17-20 (440-263226-5), (440-263226-A-1 MS), (440-263226-A-1 MSD) and (440-263226-A-1 PDS). Regulatory documents require a 24-hour waiting period from the time of the addition of the acid preservative to the time of digestion.

03/26/20

1.0mL of HNO₃ was added to container A-1 and A-5
0.5mL of HNO₃ was added to containers A-2, A-3, and A-4
HNO₃ Bottle Lot # 1119040

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

General Chemistry

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

Client Sample Results

Client: FPL Energy Solar Partners III-VII, LLC
 Project/Site: Nextera Kramer Junction

Job ID: 440-263226-1

Client Sample ID: MW-1-03-17-20

Lab Sample ID: 440-263226-1

Date Collected: 03/17/20 07:55

Matrix: Water

Date Received: 03/17/20 18:45

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	330		25	mg/L			03/23/20 17:53	50

Method: 6010B - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Sodium	350		0.50	mg/L		03/27/20 10:04	03/27/20 16:01	1

General Chemistry

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	1300		10	mg/L			03/23/20 13:28	1

Client Sample ID: MW-4-03-17-20

Lab Sample ID: 440-263226-2

Date Collected: 03/17/20 08:50

Matrix: Water

Date Received: 03/17/20 18:45

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	190		25	mg/L			03/21/20 16:27	50

Method: 6010B - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Sodium	230		0.50	mg/L		03/27/20 10:04	03/27/20 16:16	1

General Chemistry

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	840		10	mg/L			03/23/20 13:28	1

Client Sample ID: MW-3-03-17-20

Lab Sample ID: 440-263226-3

Date Collected: 03/17/20 14:24

Matrix: Water

Date Received: 03/17/20 18:45

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	210		25	mg/L			03/21/20 16:43	50

Method: 6010B - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Sodium	270		0.50	mg/L		03/27/20 10:04	03/27/20 16:19	1

General Chemistry

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	910		10	mg/L			03/23/20 13:28	1

Client Sample ID: MW-2-03-17-20

Lab Sample ID: 440-263226-4

Date Collected: 03/17/20 15:50

Matrix: Water

Date Received: 03/17/20 18:45

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	230		25	mg/L			03/21/20 16:58	50

Method: 6010B - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Sodium	330		0.50	mg/L		03/27/20 10:04	03/27/20 16:22	1

Eurofins Calscience Irvine

Client Sample Results

Client: FPL Energy Solar Partners III-VII, LLC
 Project/Site: Nextera Kramer Junction

Job ID: 440-263226-1

Client Sample ID: MW-2-03-17-20

Lab Sample ID: 440-263226-4

Date Collected: 03/17/20 15:50

Matrix: Water

Date Received: 03/17/20 18:45

General Chemistry

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	1100		10	mg/L			03/23/20 13:28	1

Client Sample ID: Dup-03-17-20

Lab Sample ID: 440-263226-5

Date Collected: 03/17/20 00:01

Matrix: Water

Date Received: 03/17/20 18:45

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	330		25	mg/L			03/23/20 18:09	50

Method: 6010B - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Sodium	360		0.50	mg/L		03/27/20 10:04	03/30/20 10:52	1

General Chemistry

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	1300		10	mg/L			03/23/20 13:28	1

Method Summary

Client: FPL Energy Solar Partners III-VII, LLC
Project/Site: Nextera Kramer Junction

Job ID: 440-263226-1

Method	Method Description	Protocol	Laboratory
300.0	Anions, Ion Chromatography	MCAWW	TAL IRV
6010B	Metals (ICP)	SW846	TAL IRV
SM 2540C	Solids, Total Dissolved (TDS)	SM	TAL IRV
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	TAL IRV

Protocol References:

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

SM = "Standard Methods For The Examination Of Water And Wastewater"

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

Laboratory References:

TAL IRV = Eurofins Calscience Irvine, 17461 Derian Ave, Suite 100, Irvine, CA 92614-5817, TEL (949)261-1022



Lab Chronicle

Client: FPL Energy Solar Partners III-VII, LLC
 Project/Site: Nextera Kramer Junction

Job ID: 440-263226-1

Client Sample ID: MW-1-03-17-20

Lab Sample ID: 440-263226-1

Date Collected: 03/17/20 07:55

Matrix: Water

Date Received: 03/17/20 18:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		50			601882	03/23/20 17:53	NTN	TAL IRV
Total Recoverable	Prep	3005A			25 mL	25 mL	602700	03/27/20 10:04	EP	TAL IRV
Total Recoverable	Analysis	6010B		1			602843	03/27/20 16:01	P1R	TAL IRV
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	601908	03/23/20 13:28	XL	TAL IRV

Client Sample ID: MW-4-03-17-20

Lab Sample ID: 440-263226-2

Date Collected: 03/17/20 08:50

Matrix: Water

Date Received: 03/17/20 18:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		50			601772	03/21/20 16:27	NTN	TAL IRV
Total Recoverable	Prep	3005A			25 mL	25 mL	602700	03/27/20 10:04	EP	TAL IRV
Total Recoverable	Analysis	6010B		1			602843	03/27/20 16:16	P1R	TAL IRV
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	601908	03/23/20 13:28	XL	TAL IRV

Client Sample ID: MW-3-03-17-20

Lab Sample ID: 440-263226-3

Date Collected: 03/17/20 14:24

Matrix: Water

Date Received: 03/17/20 18:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		50			601772	03/21/20 16:43	NTN	TAL IRV
Total Recoverable	Prep	3005A			25 mL	25 mL	602700	03/27/20 10:04	EP	TAL IRV
Total Recoverable	Analysis	6010B		1			602843	03/27/20 16:19	P1R	TAL IRV
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	601908	03/23/20 13:28	XL	TAL IRV

Client Sample ID: MW-2-03-17-20

Lab Sample ID: 440-263226-4

Date Collected: 03/17/20 15:50

Matrix: Water

Date Received: 03/17/20 18:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		50			601772	03/21/20 16:58	NTN	TAL IRV
Total Recoverable	Prep	3005A			25 mL	25 mL	602700	03/27/20 10:04	EP	TAL IRV
Total Recoverable	Analysis	6010B		1			602843	03/27/20 16:22	P1R	TAL IRV
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	601908	03/23/20 13:28	XL	TAL IRV

Client Sample ID: Dup-03-17-20

Lab Sample ID: 440-263226-5

Date Collected: 03/17/20 00:01

Matrix: Water

Date Received: 03/17/20 18:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		50			601882	03/23/20 18:09	NTN	TAL IRV
Total Recoverable	Prep	3005A			25 mL	25 mL	602700	03/27/20 10:04	EP	TAL IRV
Total Recoverable	Analysis	6010B		1			602945	03/30/20 10:52	TQN	TAL IRV
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	601908	03/23/20 13:28	XL	TAL IRV

Lab Chronicle

Client: FPL Energy Solar Partners III-VII, LLC
Project/Site: Nextera Kramer Junction

Job ID: 440-263226-1

Laboratory References:

TAL IRV = Eurofins Calscience Irvine, 17461 Derian Ave, Suite 100, Irvine, CA 92614-5817, TEL (949)261-1022

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QC Sample Results

Client: FPL Energy Solar Partners III-VII, LLC
 Project/Site: Nextera Kramer Junction

Job ID: 440-263226-1

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 440-601772/6
Matrix: Water
Analysis Batch: 601772

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	ND		0.50	mg/L			03/21/20 12:09	1

Lab Sample ID: LCS 440-601772/5
Matrix: Water
Analysis Batch: 601772

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfate	5.00	5.01		mg/L		100	90 - 110

Lab Sample ID: 440-263409-A-1 MS
Matrix: Water
Analysis Batch: 601772

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfate	5.3		5.00	10.6		mg/L		107	80 - 120

Lab Sample ID: 440-263409-A-1 MSD
Matrix: Water
Analysis Batch: 601772

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Sulfate	5.3		5.00	11.0		mg/L		115	80 - 120	4	20

Lab Sample ID: MB 440-601882/6
Matrix: Water
Analysis Batch: 601882

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	ND		0.50	mg/L			03/23/20 11:22	1

Lab Sample ID: LCS 440-601882/5
Matrix: Water
Analysis Batch: 601882

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfate	5.00	5.03		mg/L		101	90 - 110

Lab Sample ID: 440-263329-A-5 MS
Matrix: Water
Analysis Batch: 601882

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfate	86		250	338		mg/L		101	80 - 120

Lab Sample ID: 440-263329-A-5 MSD
Matrix: Water
Analysis Batch: 601882

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Sulfate	86		250	336		mg/L		100	80 - 120	0	20

QC Sample Results

Client: FPL Energy Solar Partners III-VII, LLC
 Project/Site: Nextera Kramer Junction

Job ID: 440-263226-1

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 440-602700/1-A
Matrix: Water
Analysis Batch: 602843

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 602700

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Sodium	ND		0.50	mg/L		03/27/20 10:04	03/27/20 15:55	1

Lab Sample ID: LCS 440-602700/2-A
Matrix: Water
Analysis Batch: 602843

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 602700

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Sodium	10.0	9.69		mg/L		97	80 - 120

Lab Sample ID: 440-263226-1 MS
Matrix: Water
Analysis Batch: 602843

Client Sample ID: MW-1-03-17-20
Prep Type: Total Recoverable
Prep Batch: 602700

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Sodium	350		10.0	347	4	mg/L		-18	75 - 125

Lab Sample ID: 440-263226-1 MSD
Matrix: Water
Analysis Batch: 602843

Client Sample ID: MW-1-03-17-20
Prep Type: Total Recoverable
Prep Batch: 602700

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Sodium	350		10.0	351	4	mg/L		23	75 - 125	1	20

Method: SM 2540C - Solids, Total Dissolved (TDS)

Lab Sample ID: MB 440-601908/1
Matrix: Water
Analysis Batch: 601908

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	ND		10	mg/L			03/23/20 13:28	1

Lab Sample ID: LCS 440-601908/2
Matrix: Water
Analysis Batch: 601908

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Dissolved Solids	1000	1020		mg/L		102	90 - 110

Lab Sample ID: 440-263226-3 DU
Matrix: Water
Analysis Batch: 601908

Client Sample ID: MW-3-03-17-20
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Dissolved Solids	910		933		mg/L		2	5

QC Association Summary

Client: FPL Energy Solar Partners III-VII, LLC
 Project/Site: Nextera Kramer Junction

Job ID: 440-263226-1

HPLC/IC

Analysis Batch: 601772

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-263226-2	MW-4-03-17-20	Total/NA	Water	300.0	
440-263226-3	MW-3-03-17-20	Total/NA	Water	300.0	
440-263226-4	MW-2-03-17-20	Total/NA	Water	300.0	
MB 440-601772/6	Method Blank	Total/NA	Water	300.0	
LCS 440-601772/5	Lab Control Sample	Total/NA	Water	300.0	
440-263409-A-1 MS	Matrix Spike	Total/NA	Water	300.0	
440-263409-A-1 MSD	Matrix Spike Duplicate	Total/NA	Water	300.0	

Analysis Batch: 601882

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-263226-1	MW-1-03-17-20	Total/NA	Water	300.0	
440-263226-5	Dup-03-17-20	Total/NA	Water	300.0	
MB 440-601882/6	Method Blank	Total/NA	Water	300.0	
LCS 440-601882/5	Lab Control Sample	Total/NA	Water	300.0	
440-263329-A-5 MS	Matrix Spike	Total/NA	Water	300.0	
440-263329-A-5 MSD	Matrix Spike Duplicate	Total/NA	Water	300.0	

Metals

Prep Batch: 602700

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-263226-1	MW-1-03-17-20	Total Recoverable	Water	3005A	
440-263226-2	MW-4-03-17-20	Total Recoverable	Water	3005A	
440-263226-3	MW-3-03-17-20	Total Recoverable	Water	3005A	
440-263226-4	MW-2-03-17-20	Total Recoverable	Water	3005A	
440-263226-5	Dup-03-17-20	Total Recoverable	Water	3005A	
MB 440-602700/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 440-602700/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
440-263226-1 MS	MW-1-03-17-20	Total Recoverable	Water	3005A	
440-263226-1 MSD	MW-1-03-17-20	Total Recoverable	Water	3005A	

Analysis Batch: 602843

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-263226-1	MW-1-03-17-20	Total Recoverable	Water	6010B	602700
440-263226-2	MW-4-03-17-20	Total Recoverable	Water	6010B	602700
440-263226-3	MW-3-03-17-20	Total Recoverable	Water	6010B	602700
440-263226-4	MW-2-03-17-20	Total Recoverable	Water	6010B	602700
MB 440-602700/1-A	Method Blank	Total Recoverable	Water	6010B	602700
LCS 440-602700/2-A	Lab Control Sample	Total Recoverable	Water	6010B	602700
440-263226-1 MS	MW-1-03-17-20	Total Recoverable	Water	6010B	602700
440-263226-1 MSD	MW-1-03-17-20	Total Recoverable	Water	6010B	602700

Analysis Batch: 602945

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-263226-5	Dup-03-17-20	Total Recoverable	Water	6010B	602700

General Chemistry

Analysis Batch: 601908

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-263226-1	MW-1-03-17-20	Total/NA	Water	SM 2540C	
440-263226-2	MW-4-03-17-20	Total/NA	Water	SM 2540C	

Eurofins Calscience Irvine

QC Association Summary

Client: FPL Energy Solar Partners III-VII, LLC
Project/Site: Nextera Kramer Junction

Job ID: 440-263226-1

General Chemistry (Continued)

Analysis Batch: 601908 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-263226-3	MW-3-03-17-20	Total/NA	Water	SM 2540C	
440-263226-4	MW-2-03-17-20	Total/NA	Water	SM 2540C	
440-263226-5	Dup-03-17-20	Total/NA	Water	SM 2540C	
MB 440-601908/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 440-601908/2	Lab Control Sample	Total/NA	Water	SM 2540C	
440-263226-3 DU	MW-3-03-17-20	Total/NA	Water	SM 2540C	

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Definitions/Glossary

Client: FPL Energy Solar Partners III-VII, LLC
Project/Site: Nextera Kramer Junction

Job ID: 440-263226-1

Qualifiers

Metals

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

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
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)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Accreditation/Certification Summary

Client: FPL Energy Solar Partners III-VII, LLC
Project/Site: Nextera Kramer Junction

Job ID: 440-263226-1

Laboratory: Eurofins Calscience Irvine

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

Authority	Program	Identification Number	Expiration Date
California	State	2706	06-30-20

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
6010B	3005A	Water	Sodium

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Chain of Custody Record

396712 eurofins

Environment Testings
Test/America

Address:

Regulatory Program: DW NPDES RCRA Other:

TAL-9210

Client Contact Company Name: <u>Nektara - frames Junction</u> Address: <u>41100 Hwy 385</u> City/State/Zip: <u>Bronx, CA 93816</u> Phone: <u>(260) 362-5562</u> Fax: Project Name: <u>Nektara - frames Junction</u> Site: P.O.#		Project Manager: Tel/Email: Analysis Turnaround Time <input type="checkbox"/> CALENDAR DAYS <input type="checkbox"/> WORKING DAYS TAT if different from Below <input checked="" type="checkbox"/> 2 weeks <input type="checkbox"/> 1 week <input type="checkbox"/> 2 days <input type="checkbox"/> 1 day		Site Contact: Lab Contact: Perform MS/MSD (Y/N) <u>SO</u> Filtered Sample (Y/N) <u>SO</u>		COC No: <u>3-17-20</u> of <u>1</u> COCs Date: <u>3-17-20</u> Carrier: Sampler For Lab Use Only: Walk-In Client Lab Sampling: Job / SDG No.:	
Sample Identification MW-1-3-17-20 MW-4- " MW-3- " MW-2- " Dup- " 3/17/20 LD		Sample Date 3-17-20 0755 " 0850 " 1424 " 1550 "	Sample Type (C=Comp, G=Grab) 6 H2O 	Matrix H2O 	# of Cont. 1 2 2 2 1	Sample Specific Notes: SO SO SO SO SO	
Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other Possible Hazard Identification: <u>Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)</u> Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample. <input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown Special Instructions/QC Requirements & Comments:							
Custody Seal Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No Relinquished by: <u>[Signature]</u> Relinquished by:		Custody Seal No.: Company: <u>Nektara</u> Company:		Cooler Temp (C): Obs'd: <u>2.3</u> Cor'd: <u>2.3</u> Therm ID No. <u>1R-29</u> Date/Time:		Date/Time:	
Relinquished by: <u>[Signature]</u> Relinquished by:		Received by: <u>[Signature]</u> Received by:		Company: <u>EC-IRV</u> Company:		Date/Time: <u>3/17/20</u> Date/Time: <u>1845</u>	



Login Sample Receipt Checklist

Client: FPL Energy Solar Partners III-VII, LLC

Job Number: 440-263226-1

Login Number: 263226

List Number: 1

Creator: Dolidze, Lado

List Source: Eurofins Irvine

Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	N/A	Not present
Sample custody seals, if present, are intact.	N/A	Not Present
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?	False	Refer to Job Narrative for details.
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.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <math><6\text{mm}</math> (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

ANALYTICAL REPORT

Eurofins Calscience Irvine
17461 Derian Ave
Suite 100
Irvine, CA 92614-5817
Tel: (949)261-1022

Laboratory Job ID: 440-267503-1
Client Project/Site: Nextera-Kramer Junction

For:
FPL Energy Solar Partners III-VII, LLC
41100 Highway 395
Boron, California 93516

Attn: Glen King



Authorized for release by:
6/26/2020 2:41:30 PM

Sheri Fama, Project Manager I
(949)260-3274
sheri.fama@testamericainc.com

LINKS

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results through
TotalAccess

Have a Question?



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www.eurofinsus.com/Env

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

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

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



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Sample Summary

Client: FPL Energy Solar Partners III-VII, LLC
Project/Site: Nextera-Kramer Junction

Job ID: 440-267503-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
440-267503-1	MW-1-6-15-20	Water	06/15/20 10:50	06/16/20 10:22	
440-267503-2	MW-2-6-15-20	Water	06/15/20 13:10	06/16/20 10:22	
440-267503-3	MW-3-6-15-20	Water	06/15/20 15:30	06/16/20 10:22	
440-267503-4	MW-4-6-15-20	Water	06/15/20 16:20	06/16/20 10:22	
440-267503-5	Dup-6-15-20	Water	06/15/20 00:01	06/16/20 10:22	

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Case Narrative

Client: FPL Energy Solar Partners III-VII, LLC
Project/Site: Nextera-Kramer Junction

Job ID: 440-267503-1

Job ID: 440-267503-1

Laboratory: Eurofins Calscience Irvine

Narrative

Job Narrative 440-267503-1

Comments

No additional comments.

Receipt

The samples were received on 6/16/2020 10:22 AM; the samples arrived in good condition and on ice. The temperature of the cooler at receipt was 5.6° C.

Receipt Exceptions

The following samples were received with insufficient preservation: MW-1 (440-267503-1), MW-2 (440-267503-2), MW-3 (440-267503-3), MW-4 (440-267503-4) and Dup-1 (440-267503-5) for sodium analysis.

The Field Sampler was not listed on the Chain of Custody.

HPLC/IC

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

Metals

Method 3005A: The following samples for metals were received unpreserved and were preserved upon receipt to the laboratory: MW-1 (440-267503-1), MW-2 (440-267503-2), MW-3 (440-267503-3), MW-4 (440-267503-4), Dup-1 (440-267503-5), (440-267503-B-1 MS), (440-267503-B-1 MSD) and (440-267503-B-1 PDS). Regulatory documents require a 24-hour waiting period from the time of the addition of the acid preservative to the time of digestion.

1.0mL of HNO₃ was added to each container B-1, B-2, B-3, B-4 and B-5 on 06/18/20
HNO₃ Bottle Lot # 1119051

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

General Chemistry

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

Client Sample Results

Client: FPL Energy Solar Partners III-VII, LLC
 Project/Site: Nextera-Kramer Junction

Job ID: 440-267503-1

Client Sample ID: MW-1-6-15-20

Lab Sample ID: 440-267503-1

Date Collected: 06/15/20 10:50

Matrix: Water

Date Received: 06/16/20 10:22

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	340		25	mg/L			06/16/20 22:27	50

Method: 6010B - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Sodium	320		0.50	mg/L		06/20/20 13:05	06/25/20 16:31	1

General Chemistry

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	1200		10	mg/L			06/22/20 12:00	1

Client Sample ID: MW-2-6-15-20

Lab Sample ID: 440-267503-2

Date Collected: 06/15/20 13:10

Matrix: Water

Date Received: 06/16/20 10:22

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	230		25	mg/L			06/16/20 22:46	50

Method: 6010B - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Sodium	350		0.50	mg/L		06/20/20 13:05	06/25/20 16:43	1

General Chemistry

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	1100		10	mg/L			06/22/20 12:00	1

Client Sample ID: MW-3-6-15-20

Lab Sample ID: 440-267503-3

Date Collected: 06/15/20 15:30

Matrix: Water

Date Received: 06/16/20 10:22

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	210		25	mg/L			06/16/20 23:05	50

Method: 6010B - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Sodium	270		0.50	mg/L		06/20/20 13:05	06/25/20 16:45	1

General Chemistry

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	920		10	mg/L			06/22/20 12:00	1

Client Sample ID: MW-4-6-15-20

Lab Sample ID: 440-267503-4

Date Collected: 06/15/20 16:20

Matrix: Water

Date Received: 06/16/20 10:22

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	200		25	mg/L			06/16/20 23:24	50

Method: 6010B - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Sodium	220		0.50	mg/L		06/20/20 13:05	06/25/20 16:48	1

Eurofins Calscience Irvine

Client Sample Results

Client: FPL Energy Solar Partners III-VII, LLC
 Project/Site: Nextera-Kramer Junction

Job ID: 440-267503-1

Client Sample ID: MW-4-6-15-20

Lab Sample ID: 440-267503-4

Date Collected: 06/15/20 16:20

Matrix: Water

Date Received: 06/16/20 10:22

General Chemistry

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	830		10	mg/L			06/22/20 12:00	1

Client Sample ID: Dup-6-15-20

Lab Sample ID: 440-267503-5

Date Collected: 06/15/20 00:01

Matrix: Water

Date Received: 06/16/20 10:22

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	340		25	mg/L			06/16/20 23:43	50

Method: 6010B - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Sodium	340		0.50	mg/L		06/20/20 13:05	06/25/20 16:55	1

General Chemistry

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	1200		10	mg/L			06/22/20 12:00	1

Method Summary

Client: FPL Energy Solar Partners III-VII, LLC
Project/Site: Nextera-Kramer Junction

Job ID: 440-267503-1

Method	Method Description	Protocol	Laboratory
300.0	Anions, Ion Chromatography	MCAWW	TAL IRV
6010B	Metals (ICP)	SW846	TAL IRV
SM 2540C	Solids, Total Dissolved (TDS)	SM	TAL IRV
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	TAL IRV

Protocol References:

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

SM = "Standard Methods For The Examination Of Water And Wastewater"

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

Laboratory References:

TAL IRV = Eurofins Calscience Irvine, 17461 Derian Ave, Suite 100, Irvine, CA 92614-5817, TEL (949)261-1022



Lab Chronicle

Client: FPL Energy Solar Partners III-VII, LLC
 Project/Site: Nextera-Kramer Junction

Job ID: 440-267503-1

Client Sample ID: MW-1-6-15-20

Lab Sample ID: 440-267503-1

Date Collected: 06/15/20 10:50

Matrix: Water

Date Received: 06/16/20 10:22

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		50			612886	06/16/20 22:27	NTN	TAL IRV
Total Recoverable	Prep	3005A			25 mL	25 mL	613660	06/20/20 13:05	A1M	TAL IRV
Total Recoverable	Analysis	6010B		1			614422	06/25/20 16:31	P1R	TAL IRV
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	613769	06/22/20 12:00	XL	TAL IRV

Client Sample ID: MW-2-6-15-20

Lab Sample ID: 440-267503-2

Date Collected: 06/15/20 13:10

Matrix: Water

Date Received: 06/16/20 10:22

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		50			612886	06/16/20 22:46	NTN	TAL IRV
Total Recoverable	Prep	3005A			25 mL	25 mL	613660	06/20/20 13:05	A1M	TAL IRV
Total Recoverable	Analysis	6010B		1			614422	06/25/20 16:43	P1R	TAL IRV
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	613769	06/22/20 12:00	XL	TAL IRV

Client Sample ID: MW-3-6-15-20

Lab Sample ID: 440-267503-3

Date Collected: 06/15/20 15:30

Matrix: Water

Date Received: 06/16/20 10:22

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		50			612886	06/16/20 23:05	NTN	TAL IRV
Total Recoverable	Prep	3005A			25 mL	25 mL	613660	06/20/20 13:05	A1M	TAL IRV
Total Recoverable	Analysis	6010B		1			614422	06/25/20 16:45	P1R	TAL IRV
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	613769	06/22/20 12:00	XL	TAL IRV

Client Sample ID: MW-4-6-15-20

Lab Sample ID: 440-267503-4

Date Collected: 06/15/20 16:20

Matrix: Water

Date Received: 06/16/20 10:22

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		50			612886	06/16/20 23:24	NTN	TAL IRV
Total Recoverable	Prep	3005A			25 mL	25 mL	613660	06/20/20 13:05	A1M	TAL IRV
Total Recoverable	Analysis	6010B		1			614422	06/25/20 16:48	P1R	TAL IRV
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	613769	06/22/20 12:00	XL	TAL IRV

Client Sample ID: Dup-6-15-20

Lab Sample ID: 440-267503-5

Date Collected: 06/15/20 00:01

Matrix: Water

Date Received: 06/16/20 10:22

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		50			612886	06/16/20 23:43	NTN	TAL IRV
Total Recoverable	Prep	3005A			25 mL	25 mL	613660	06/20/20 13:05	A1M	TAL IRV
Total Recoverable	Analysis	6010B		1			614422	06/25/20 16:55	P1R	TAL IRV
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	613769	06/22/20 12:00	XL	TAL IRV

Lab Chronicle

Client: FPL Energy Solar Partners III-VII, LLC
Project/Site: Nextera-Kramer Junction

Job ID: 440-267503-1

Laboratory References:

TAL IRV = Eurofins Calscience Irvine, 17461 Derian Ave, Suite 100, Irvine, CA 92614-5817, TEL (949)261-1022

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QC Sample Results

Client: FPL Energy Solar Partners III-VII, LLC
 Project/Site: Nextera-Kramer Junction

Job ID: 440-267503-1

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 440-612886/6
 Matrix: Water
 Analysis Batch: 612886

Client Sample ID: Method Blank
 Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	ND		0.50	mg/L			06/16/20 12:15	1

Lab Sample ID: LCS 440-612886/5
 Matrix: Water
 Analysis Batch: 612886

Client Sample ID: Lab Control Sample
 Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfate	5.00	4.82		mg/L		96	90 - 110

Lab Sample ID: MRL 440-612886/4
 Matrix: Water
 Analysis Batch: 612886

Client Sample ID: Lab Control Sample
 Prep Type: Total/NA

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfate	0.500	ND		ug/mL		99	50 - 150

Lab Sample ID: 440-267503-5 MS
 Matrix: Water
 Analysis Batch: 612886

Client Sample ID: Dup-6-15-20
 Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfate	340		250	600		mg/L		103	80 - 120

Lab Sample ID: 440-267503-5 MSD
 Matrix: Water
 Analysis Batch: 612886

Client Sample ID: Dup-6-15-20
 Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Sulfate	340		250	611		mg/L		107	80 - 120	2	20

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 440-613660/1-A
 Matrix: Water
 Analysis Batch: 614422

Client Sample ID: Method Blank
 Prep Type: Total Recoverable
 Prep Batch: 613660

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Sodium	ND		0.50	mg/L		06/20/20 13:05	06/25/20 16:26	1

Lab Sample ID: LCS 440-613660/2-A
 Matrix: Water
 Analysis Batch: 614422

Client Sample ID: Lab Control Sample
 Prep Type: Total Recoverable
 Prep Batch: 613660

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Sodium	10.0	10.0		mg/L		100	80 - 120

QC Sample Results

Client: FPL Energy Solar Partners III-VII, LLC
 Project/Site: Nextera-Kramer Junction

Job ID: 440-267503-1

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: 440-267503-1 MS
 Matrix: Water
 Analysis Batch: 614422

Client Sample ID: MW-1-6-15-20
 Prep Type: Total Recoverable
 Prep Batch: 613660
 %Rec.

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Sodium	320		10.0	360	4	mg/L		372	75 - 125

Lab Sample ID: 440-267503-1 MSD
 Matrix: Water
 Analysis Batch: 614422

Client Sample ID: MW-1-6-15-20
 Prep Type: Total Recoverable
 Prep Batch: 613660
 %Rec. RPD

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Sodium	320		10.0	343	4	mg/L		206	75 - 125	5	20

Method: SM 2540C - Solids, Total Dissolved (TDS)

Lab Sample ID: MB 440-613769/1
 Matrix: Water
 Analysis Batch: 613769

Client Sample ID: Method Blank
 Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	ND		10	mg/L			06/22/20 12:00	1

Lab Sample ID: LCS 440-613769/2
 Matrix: Water
 Analysis Batch: 613769

Client Sample ID: Lab Control Sample
 Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Dissolved Solids	1000	1010		mg/L		101	90 - 110

Lab Sample ID: 440-267503-1 DU
 Matrix: Water
 Analysis Batch: 613769

Client Sample ID: MW-1-6-15-20
 Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
Total Dissolved Solids	1200		1260		mg/L		1	5

QC Association Summary

Client: FPL Energy Solar Partners III-VII, LLC
 Project/Site: Nextera-Kramer Junction

Job ID: 440-267503-1

HPLC/IC

Analysis Batch: 612886

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-267503-1	MW-1-6-15-20	Total/NA	Water	300.0	
440-267503-2	MW-2-6-15-20	Total/NA	Water	300.0	
440-267503-3	MW-3-6-15-20	Total/NA	Water	300.0	
440-267503-4	MW-4-6-15-20	Total/NA	Water	300.0	
440-267503-5	Dup-6-15-20	Total/NA	Water	300.0	
MB 440-612886/6	Method Blank	Total/NA	Water	300.0	
LCS 440-612886/5	Lab Control Sample	Total/NA	Water	300.0	
MRL 440-612886/4	Lab Control Sample	Total/NA	Water	300.0	
440-267503-5 MS	Dup-6-15-20	Total/NA	Water	300.0	
440-267503-5 MSD	Dup-6-15-20	Total/NA	Water	300.0	

Metals

Prep Batch: 613660

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-267503-1	MW-1-6-15-20	Total Recoverable	Water	3005A	
440-267503-2	MW-2-6-15-20	Total Recoverable	Water	3005A	
440-267503-3	MW-3-6-15-20	Total Recoverable	Water	3005A	
440-267503-4	MW-4-6-15-20	Total Recoverable	Water	3005A	
440-267503-5	Dup-6-15-20	Total Recoverable	Water	3005A	
MB 440-613660/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 440-613660/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
440-267503-1 MS	MW-1-6-15-20	Total Recoverable	Water	3005A	
440-267503-1 MSD	MW-1-6-15-20	Total Recoverable	Water	3005A	

Analysis Batch: 614422

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-267503-1	MW-1-6-15-20	Total Recoverable	Water	6010B	613660
440-267503-2	MW-2-6-15-20	Total Recoverable	Water	6010B	613660
440-267503-3	MW-3-6-15-20	Total Recoverable	Water	6010B	613660
440-267503-4	MW-4-6-15-20	Total Recoverable	Water	6010B	613660
440-267503-5	Dup-6-15-20	Total Recoverable	Water	6010B	613660
MB 440-613660/1-A	Method Blank	Total Recoverable	Water	6010B	613660
LCS 440-613660/2-A	Lab Control Sample	Total Recoverable	Water	6010B	613660
440-267503-1 MS	MW-1-6-15-20	Total Recoverable	Water	6010B	613660
440-267503-1 MSD	MW-1-6-15-20	Total Recoverable	Water	6010B	613660

General Chemistry

Analysis Batch: 613769

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-267503-1	MW-1-6-15-20	Total/NA	Water	SM 2540C	
440-267503-2	MW-2-6-15-20	Total/NA	Water	SM 2540C	
440-267503-3	MW-3-6-15-20	Total/NA	Water	SM 2540C	
440-267503-4	MW-4-6-15-20	Total/NA	Water	SM 2540C	
440-267503-5	Dup-6-15-20	Total/NA	Water	SM 2540C	
MB 440-613769/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 440-613769/2	Lab Control Sample	Total/NA	Water	SM 2540C	
440-267503-1 DU	MW-1-6-15-20	Total/NA	Water	SM 2540C	

Definitions/Glossary

Client: FPL Energy Solar Partners III-VII, LLC
Project/Site: Nextera-Kramer Junction

Job ID: 440-267503-1

Qualifiers

Metals

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

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
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Accreditation/Certification Summary

Client: FPL Energy Solar Partners III-VII, LLC
Project/Site: Nextera-Kramer Junction

Job ID: 440-267503-1

Laboratory: Eurofins Calscience Irvine

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

Authority	Program	Identification Number	Expiration Date
California	State	2706	06-30-20

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
6010B	3005A	Water	Sodium

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

TestAmerica Irvine
 17461 Perian Ave
 Suite 108
 Irvine, CA 92614
 Phone: 949.261.1022 Fax:

Chain of Custody Record

205888

TestAmerica
 THE LEADER IN ENVIRONMENTAL TESTING
 TestAmerica Laboratories, Inc.
 TAL-8210 (0713)

TAL-8210 (0713)

Regulatory Program: DW NPDES RCRA Other:

Client Contact
 Company Name: Nortega Home Junction
 Address: 4100 Hwy 395
 City/State/Zip: Brian, CA 93516
 Phone: (260) 262-5562
 Project Name: Nortega Home Junction
 Site: _____
 P.O.#: _____

Project Manager: Glen King
 Analysis Turnaround Time
 CALENDAR DAYS WORKING DAYS
 TAT if different from Below _____
 2 weeks
 1 week
 2 days
 1 day

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS/MSD (Y/N)	Lab Contact:	Site Contact:	Date:	COC No. of COCs
MW-1-6-15-20	6/15/20	1050	6	GW	1	MW	XX	Scrub	Scrub	6-16-20	1
MW-2- "		1310			1	XX	XX				
MW-3- "		1530			1	XX	XX				
MW-4- "		1620			1	XX	XX				
Dup- "					1	XX	XX				



440-267503 Chain of Custody

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____
 Possible Hazard Identification: _____
 Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.
 Non-Hazard Flammable Skin Irritant Unknown
 Return to Client Disposal by Lab Archive for _____ Months

Special Instructions/QC Requirements & Comments: _____
 Cooler Temp (°C), Obs'd: 5.4 Cor'd: 5.6 Therm ID No: 12 94
 Custody Seal No. _____
 Relinquished by: [Signature] Date/Time: 6-16-20 1022
 Relinquished by: Northstar Date/Time: _____
 Relinquished by: _____ Date/Time: _____
 Relinquished by: _____ Date/Time: _____
 Received by: _____ Date/Time: _____
 Received in Laboratory by: [Signature] Date/Time: 6/16/20 1022



Login Sample Receipt Checklist

Client: FPL Energy Solar Partners III-VII, LLC

Job Number: 440-267503-1

Login Number: 267503

List Number: 1

Creator: Dolidze, Lado

List Source: Eurofins Irvine

Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	N/A	Not present
Sample custody seals, if present, are intact.	N/A	Not Present
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?	False	Refer to Job Narrative for details.
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.	False	Refer to Job Narrative for details.
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <math><6\text{mm}</math> (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	False	Refer to Job Narrative for details.
Residual Chlorine Checked.	N/A	